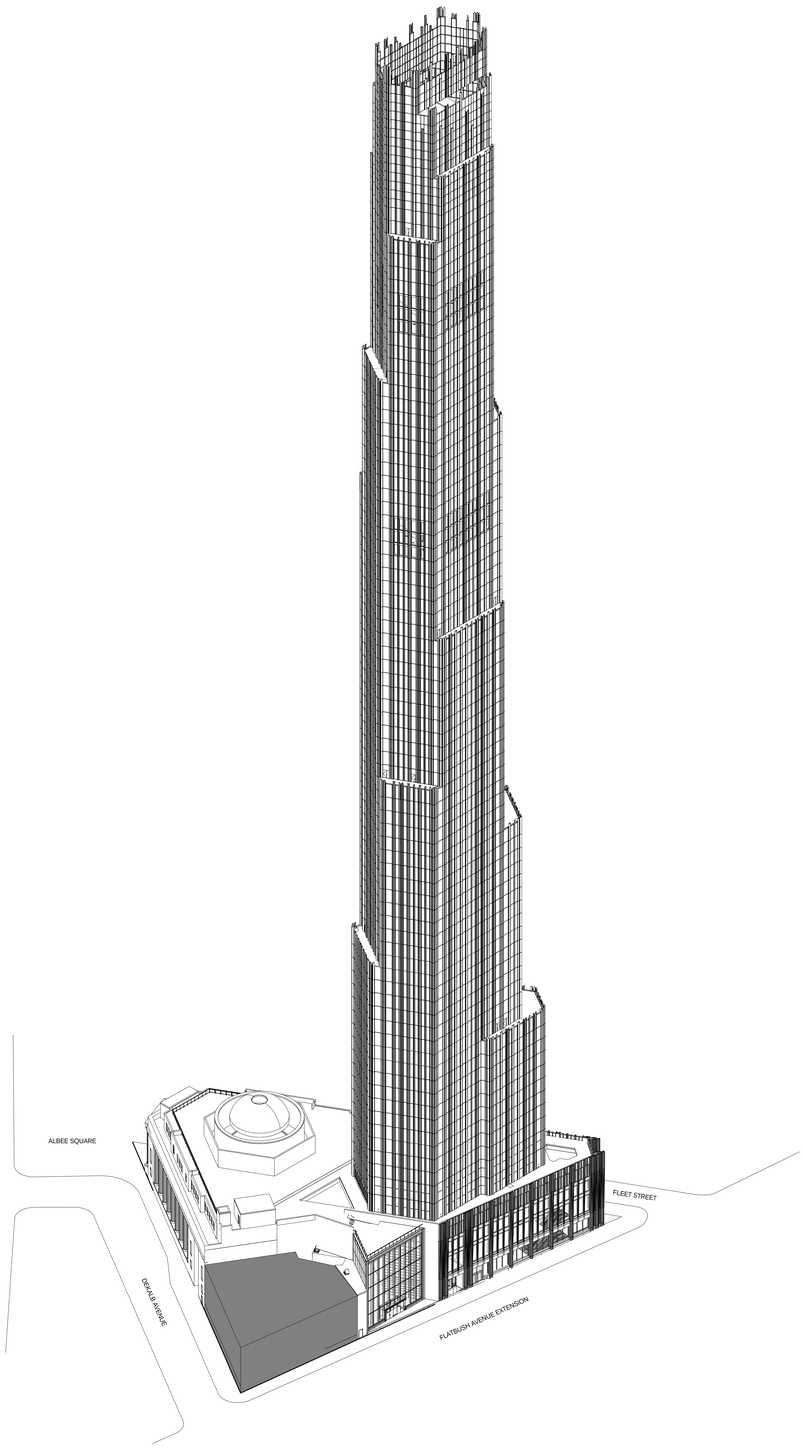
DEPT OF BLDGS 320014338 Job Number

E-DOC# 56007085 Scan Code



9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY, 11201

DOB FILING SET
07.15.16

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6560

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2325

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE
9 DEKALB AVE
NEW YORK, NY 11201

SITE DIAGRAM

		NO.	DATE	REVISION
07/15/16	DOB FILING SET			
04/21/16	FD / SOE DOB FILING SET			
07/01/16	FACADE BID PACKAGE			
02/05/16	100% SD REASSESSMENT			
05/05/15	DOB FILING SET			
3/13/15	100% SCHEMATIC DESIGN			

THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH MAY NOT BE USED FOR OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR COMPLETION OF THIS PROJECT BY OTHERS.

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DRAWING TITLE

COVER SHEET

SEAL & SIGNATURE

REGISTERED ARCHITECT GREGORY A. PASQUARELLI 029209 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	14042S
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	T-000.00

DEPT OF BLDGS 320014338 Job Number
E1640693313 Scan Code

SHEET #	SHEET NAME	DOB FILING SET 07/15/16
GENERAL / LIFE SAFETY AND EGRESS		
T-000.00	COVER SHEET	■
G-001.00	DRAWING LIST	■
G-002.00	ABBREVIATIONS / SYMBOLS / DOB NOTES / CODE ANALYSIS	■
G-003.00	UNIT COUNTS	■
G-010.00	ACCESSIBILITY DIAGRAMS	■
G-011.00	RESIDENTIAL ACCESSIBILITY DIAGRAMS	■
G-013.00	FHA GUIDELINES 1	■
G-014.00	FHA GUIDELINES 2	■
G-020.00	CLADDING WIND PRESSURE REPORT	■
G-050.00	LIGHT AND AIR CALCULATION	■
G-099.00	OCCUPANCY LOAD AND EGRESS ANALYSIS - SUBCELLAR	■
G-100.00	OCCUPANCY LOAD AND EGRESS ANALYSIS - CELLAR	■
G-101.00	OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVEL 01	■
G-102.00	OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVEL 02	■
G-103.00	OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVEL 03	■
G-104.00	OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVEL 04	■
G-105.00	OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVEL 05	■
G-106.00	OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVEL 06 / 07	■
G-108.00	OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVELS 08-14	■
G-115.00	OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVELS 15-21	■
G-122.00	OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVELS 22-26	■
G-127.00	OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVELS 27 / 27 MEZZ	■
G-128.00	OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVELS 28-33	■
G-134.00	OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVELS 34-39 / 40-44	■
G-145.00	OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVELS 45-48 / 49 / 50	■
G-151.00	OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVELS 51-55 / 56-60	■
G-161.00	OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVELS 61-64 / 65	■
G-166.00	OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVELS 66-69 / 70-71	■
G-172.00	OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVELS 72/ 72 +16' / 72 +32' / ROOF	■
ENERGY CODE COMPLIANCE		
EN-001.00	NYC EC COMPLIANCE COVER SHEET	■
EN-002.00	NYC EC COMPLIANCE MANDATORY MEASURES SHEET NO 1	■
EN-003.00	NYC EC COMPLIANCE MANDATORY MEASURES SHEET NO 2	■
EN-004.00	NYC EC COMPLIANCE - LIGHTING FIXTURES SCHEDULE	■
EN-005.00	NYC EC COMPLIANCE - LIGHTING CALCULATIONS	■
EN-006.00	NYC EC COMPLIANCE - EN-1 COMLPLIANCE SHEET PART 1	■
EN-007.00	NYC EC COMPLIANCE - EN-1 COMLPLIANCE SHEET PART 2	■
EN-008.00	NYC EC COMPLIANCE - EN-1 COMLPLIANCE SHEET PART 3	■
EN-009.00	NYC EC COMPLIANCE - EN-1 COMLPLIANCE SHEET PART 4	■
EN-099.00	NYC EC COMPLIANCE - SUBCELLAR PLAN	■
EN-100.00	NYC EC COMPLIANCE - CELLAR PLAN	■
EN-101.00	NYC EC COMPLIANCE - LEVEL 1 PLAN	■
EN-102.00	NYC EC COMPLIANCE - LEVEL 2 PLAN	■
EN-103.00	NYC EC COMPLIANCE - LEVEL 3 PLAN	■
EN-104.00	NYC EC COMPLIANCE - LEVEL 4 PLAN	■
EN-105.00	NYC EC COMPLIANCE - LEVEL 5 PLAN	■
EN-106.00	NYC EC COMPLIANCE - LEVEL 6 AND LEVEL 7 PLAN	■
EN-107.00	NYC EC COMPLIANCE - LEVEL 8 AND LEVEL 16 PLAN	■
EN-108.00	NYC EC COMPLIANCE - LEVEL 22, LEVEL 27, AND LEVEL 27 MEZZ PLAN	■
EN-109.00	NYC EC COMPLIANCE - LEVEL 28, LEVEL 34, LEVEL 40, AND LEVEL 45 PLAN	■
EN-110.00	NYC EC COMPLIANCE - LEVEL 49, LEVEL 50, LEVEL 51, AND LEVEL 56 PLAN	■
EN-111.00	NYC EC COMPLIANCE - LEVEL 61, LEVEL 65, LEVEL 66, AND LEVEL 70 PLAN	■
EN-112.00	NYC EC COMPLIANCE - LEVEL 72, LEVEL 72 +16', LEVEL 72 + 32', ROOF LEVEL, ROOF +48' PLAN	■
EN-300.00	FACADE ENERGY COMPLIANCE OVERVIEW	■
EN-302.00	TOWER ELEVATIONS - EN TAKEOFF - NORTH - A	■
EN-303.00	TOWER ELEVATIONS - EN TAKEOFF - NORTH - B	■
EN-304.00	TOWER ELEVATIONS - EN TAKEOFF -NORTHEAST - A	■
EN-305.00	TOWER ELEVATIONS - EN TAKEOFF -NORTHEAST - B	■
EN-306.00	TOWER ELEVATIONS - EN TAKEOFF - SOUTHEAST - A	■
EN-307.00	TOWER ELEVATIONS - EN TAKEOFF - SOUTHEAST - B	■
EN-308.00	TOWER ELEVATIONS - EN TAKEOFF - SOUTH - A	■
EN-309.00	TOWER ELEVATIONS - EN TAKEOFF - SOUTH - B	■
EN-310.00	TOWER ELEVATIONS - EN TAKEOFF - SOUTHWEST - A	■
EN-311.00	TOWER ELEVATIONS - EN TAKEOFF - SOUTHWEST - B	■
EN-312.00	TOWER ELEVATIONS - EN TAKEOFF - NORTHWEST - A	■
EN-313.00	TOWER ELEVATIONS - EN TAKEOFF - NORTHWEST - B	■
EN-314.00	TOWER ELEVATIONS - EN TAKEOFF - WT-07	■
EN-320.00	PODIUM ELEVATIONS - EN TAKEOFF - WT-04	■
EN-321.00	PODIUM ELEVATIONS - EN TAKEOFF - WT-05 + WT-06	■
EN-331.00	SECTION DETAILS WT-01	■
EN-332.00	SECTION DETAILS WT-04A	■
EN-333.00	SECTION DETAILS WT-04B	■
EN-334.00	SECTION DETAILS WT-05	■
EN-335.00	SECTION DETAILS WT-06 AND WT-07	■
EN-350.00	DETAILS - FOUNDATION WALL, SLAB ON GRADE, WIND FLOOR CEILING, AND ROOF	■
ZONING		
Z-001.00	SITE SURVEY	■
Z-004.00	ZONING ANALYSIS	■
Z-005.00	ZONING ANALYSIS	■
Z-006.00	ZONING ANALYSIS	■
Z-007.00	ZONING ANALYSIS	■
Z-008.00	ZONING ANALYSIS	■
Z-012.00	LOT 75 FILING DRAWINGS	■
Z-013.00	LOT 75 FILING DRAWINGS	■
Z-101.00	MECHANICAL DEDUCTIONS - LEVEL 01	■
Z-102.00	MECHANICAL DEDUCTIONS - LEVEL 02	■
Z-103.00	MECHANICAL DEDUCTIONS - LEVEL 03	■
Z-104.00	MECHANICAL DEDUCTIONS - LEVEL 04	■
Z-105.00	MECHANICAL DEDUCTIONS - LEVEL 05	■
Z-106.00	MECHANICAL DEDUCTIONS - LEVEL 06 / 07	■
Z-108.00	MECHANICAL DEDUCTIONS - LEVELS 08-14	■
Z-115.00	MECHANICAL DEDUCTIONS - LEVELS 15-21	■
Z-122.00	MECHANICAL DEDUCTIONS - LEVELS 22-26	■
Z-127.00	MECHANICAL DEDUCTIONS - LEVEL 27	■
Z-128.00	MECHANICAL DEDUCTIONS - LEVELS 28-33	■
Z-134.00	MECHANICAL DEDUCTIONS - LEVELS 34-39 / 40-44	■
Z-145.00	MECHANICAL DEDUCTIONS - LEVELS 45-48 / 49 / 50	■
Z-151.00	MECHANICAL DEDUCTIONS - LEVELS 51-55 / 56-60	■
Z-161.00	MECHANICAL DEDUCTIONS - LEVELS 61-64 / 65	■
Z-166.00	MECHANICAL DEDUCTIONS - LEVELS 66-69 / 70-71	■
Z-172.00	MECHANICAL DEDUCTIONS - LEVELS 72 / ROOF	■
DEMOLITION		
DM-099.00	DEMOLITION PLAN - SUBCELLAR	■
DM-100.00	DEMOLITION PLAN - CELLAR	■
DM-101.00	DEMOLITION PLAN - LEVEL 01	■
DM-102.00	DEMOLITION PLAN - 1ST MEZZANINE	■
DM-103.00	DEMOLITION PLAN - 2ND MEZZANINE	■
DM-104.00	DEMOLITION PLAN - 3RD MEZZANINE	■
DM-105.00	DEMOLITION PLAN - LEVEL 04	■
DM-106.00	DEMOLITION - LEVEL 05 / ROOF	■
DM-110.00	DEMOLITION ELEVATIONS AND SECTIONS	■
DM-111.00	DEMOLITION ELEVATIONS AND SECTIONS	■
DM-500.00	KEY PLANS AND NOTES	■
DM-501.00	ROOF AND BULKHEAD DEMOLITION PART PLANS	■
DM-502.00	LEVEL 4 DEMOLITION PART PLAN	■
DM-503.00	3RD MEZZANINE DEMOLITION PART PLAN	■
DM-504.00	2ND MEZZANINE DEMO PLAN	■
DM-505.00	LEVEL 1 MEZZANINE DEMOLITION PART PLAN	■
DM-506.00	1ST FL DEMOLITION PART PLAN	■
DM-507.00	CELLAR DEMOLITION PART PLAN	■
DM-508.00	SUB-CELLAR DEMOLITION PLAN	■
DM-510.00	EXISTING CONDITIONS	■
ARCHITECTURAL		
A-000.00	SITE PLAN	■
A-001.00	CURB CUT - DETAILED PLAN	■
A-002.00	CURB CUT AND CIVIL DETAILS	■
A-055.00	PARTITION TYPES	■
A-070.00	ENLARGED TRASH ROOMS AND DETAILS	■

SHEET #	SHEET NAME	DOB FILING SET 07/15/16
A-099.00	FLOOR PLAN - SUBCELLAR	■
A-100.00	FLOOR PLAN - CELLAR	■
A-101.00	FLOOR PLAN - LEVEL 01	■
A-102.00	FLOOR PLAN - LEVEL 02	■
A-103.00	FLOOR PLAN - LEVEL 03	■
A-104.00	FLOOR PLAN - LEVEL 04	■
A-105.00	FLOOR PLAN - LEVEL 05	■
A-106.00	FLOOR PLAN - LEVEL 06 / 07	■
A-108.00	FLOOR PLANS - LEVELS 08-14	■
A-115.00	FLOOR PLANS - LEVELS 15-21	■
A-122.00	FLOOR PLANS - LEVELS 22-26	■
A-127.00	FLOOR PLANS - LEVELS 27 / 27 MEZZ	■
A-128.00	FLOOR PLANS - LEVELS 28-33	■
A-134.00	FLOOR PLANS - LEVELS 34-39 / 40-44	■
A-145.00	FLOOR PLANS - LEVELS 45-48 / 49 / 50	■
A-151.00	FLOOR PLANS - LEVELS 51-55 / 56-60	■
A-161.00	FLOOR PLANS - LEVELS 61-64 / 65	■
A-166.00	FLOOR PLANS - LEVELS 66-69 / 70-71	■
A-172.00	FLOOR PLANS - LEVELS 72 / 72 +16' / 72 +32' / ROOF	■
A-173.00	ROOF PLAN	■
A-300.00	TOWER KEY ELEVATIONS	■
A-301.00	TOWER KEY ELEVATIONS	■
A-302.00	TOWER ELEVATIONS - NORTH - A	■
A-303.00	TOWER ELEVATIONS - NORTH - B	■
A-304.00	TOWER ELEVATIONS - NORTHEAST - A	■
A-305.00	TOWER ELEVATIONS - NORTHEAST - B	■
A-306.00	TOWER ELEVATIONS - SOUTHEAST - A	■
A-307.00	TOWER ELEVATIONS - SOUTHEAST - B	■
A-308.00	TOWER ELEVATIONS - SOUTH - A	■
A-309.00	TOWER ELEVATIONS - SOUTH - B	■
A-310.00	TOWER ELEVATIONS - SOUTHWEST - A	■
A-311.00	TOWER ELEVATIONS - SOUTHWEST - B	■
A-312.00	TOWER ELEVATIONS - NORTHWEST - A	■
A-313.00	TOWER ELEVATIONS - NORTHWEST - B	■
A-320.00	PODIUM ELEVATIONS	■
A-321.00	PODIUM ELEVATIONS - FACADE PANELIZATION	■
A-330.00	DIME SAVINGS BANK ALTERATION - ELEVATIONS	■
A-331.00	DIME SAVINGS BANK ALTERATION - ELEVATIONS	■
A-332.00	DIME SAVINGS BANK ALTERATION - DETAILS	■
A-350.00	BUILDING SECTION NORTH-SOUTH	■
A-351.00	BUILDING SECTION EAST-WEST	■
A-370.00	ENLARGED SECTIONS	■
A-371.00	ENLARGED SECTIONS - TOWER CROWN	■
A-400.00	EXTERIOR WALL TYPE SUMMARY	■
A-401.00	WT-01, 02, & 03 - TOWER CURTAIN WALL - UNITIZED PANEL SCHEDULE	■
A-402.00	WT-01, 02, & 03 - TOWER CURTAIN WALL - ARCHITECTURAL PROFILES	■
A-403.00	WT-01, 02, & 03 - TOWER CURTAIN WALL - PANEL & PROFILE MIX SCHEDULE	■
A-404.00	WT-01, 02 & 03 - TOWER CURTAIN WALL - DOOR AND WINDOW SCHEDULE	■
A-405.00	WT-04 - PODIUM ENCLOSURE - OVERVIEW	■
A-406.00	WT-05 - PRISM ENCLOSURE OVERVIEW	■
A-410.00	WT-01 - TOWER CURTAIN WALL	■
A-411.00	WT-01 - TOWER CURTAIN WALL - AT TERRACE	■
A-412.00	WT-01 - TOWER CURTAIN WALL - AT MECHANICAL FLOOR	■
A-413.00	WT-01 - TOWER CURTAIN WALL - AT AMENITY DECK OPENING	■
A-415.00	WT-02 - TOWER WIND FLOOR CLADDING	■
A-420.00	WT-03 - TOWER BULKHEAD CLADDING	■
A-425.00	WT-04 - PODIUM CURTAIN WALL	■
A-426.00	WT-04 - PODIUM STOREFRONT	■
A-427.00	WT-04 - PODIUM STOREFRONT - AT RESIDENTIAL ENTRY	■
A-428.00	WT-04 - PODIUM STOREFRONT - AT RETAIL ENTRY	■
A-429.00	WT-04 - PODIUM STOREFRONT - AT LOADING DOCK	■
A-435.00	WT-05 - PRISM ENCLOSURE	■
A-436.00	WT-05B - PRISM ENCLOSURE	■
A-450.00	WT-01 - PLAN DETAILS	■
A-451.00	WT-01 - SECTION DETAILS	■
A-452.00	WT-01 - SECTION DETAILS	■
A-455.00	WT-02 - PLAN AND SECTION DETAILS	■
A-460.00	WT-03 - PLAN AND SECTION DETAILS	■
A-465.00	WT-04 - PLAN DETAILS	■
A-470.00	WT-04 - SECTION DETAILS	■
A-475.00	WT-05 - PLAN DETAILS	■
A-476.00	WT-05 - SECTION DETAILS	■
A-500.00	CORE DETAILS	■
A-501.00	CORE DETAILS	■
A-502.00	CORE DETAILS	■
A-503.00	CORE DETAILS	■
A-504.00	CORE DETAILS	■
A-505.00	CORE DETAILS	■
A-510.00	STAIR ENLARGED PLANS - STAIR K / M / Q / S / T	■
A-520.00	STAIR ENLARGED SECTIONS	■
A-530.00	ELEVATOR DESIGN REQUIREMENTS	■
A-531.00	ELEVATOR DESIGN REQUIREMENTS	■
A-532.00	ELEVATOR DESIGN REQUIREMENTS	■
A-533.00	ELEVATOR DESIGN REQUIREMENTS	■
A-534.00	ELEVATOR DESIGN REQUIREMENTS	■
A-535.00	ELEVATOR DESIGN REQUIREMENTS	■
A-536.00	ELEVATOR DESIGN REQUIREMENTS	■
A-537.00	ELEVATOR DESIGN REQUIREMENTS	■
A-601.00	REFLECTED CEILING PLANS - LEVEL 01	■
A-608.00	REFLECTED CEILING PLANS - LEVELS 08-14 / 15-21	■
A-622.00	REFLECTED CEILING PLANS - LEVELS 22-26	■
A-628.00	REFLECTED CEILING PLANS - LEVELS 28-33 / 34-39 / 40-44 / 45-48	■
A-651.00	REFLECTED CEILING PLANS - LEVELS 51-55 / 56-60 / 61-64 / 66-69	■
A-670.00	REFLECTED CEILING PLANS - LEVELS 70-71	■
A-711.00	INTERIOR ELEVATIONS - TYPICAL KITCHENS	■
A-712.00	INTERIOR ELEVATIONS - TYPICAL BATHROOMS	■
A-713.00	INTERIOR ELEVATIONS - TYPICAL BATHROOMS	■
A-714.00	INTERIOR ELEVATIONS - TYPICAL BATHROOMS	■
HISTORIC PRESERVATION		
HP-300.00	HISTORIC PRESERVATION ELEVATIONS	■
HP-301.00	HISTORIC PRESERVATION ELEVATIONS	■
HP-302.00	PROPOSED PROBES TO CLARIFY EXTENT OF DETERIORATION	■
HP-303.00	PROPOSED PROBES TO CLARIFY EXTENT OF DETERIORATION	■
SUPPORT OF EXCAVATION		
SOE-100.00	SUPPORT OF EXCAVATION NOTES	■
SOE-101.00	NEW YORK CITY TRANSIT GENERAL NOTES	■
SOE-102.00	EXISTING SITE SURVEY	■
SOE-103.00	SUPPORT OF EXCAVATION PHASE 1 PLAN	■
SOE-104.00	SUPPORT OF EXCAVATION PHASE 2A PLAN	■
SOE-105.00	SUPPORT OF EXCAVATION PHASE 2B PLAN	■
SOE-106.00	SUPPORT OF EXCAVATION PARTIAL PLANS	■
SOE-107.00	SUPPORT OF EXCAVATION SECTIONS	■
SOE-108.00	SUPPORT OF EXCAVATION SECTIONS	■
SOE-109.00	SUPPORT OF EXCAVATION SECTIONS	■
SOE-110.00	SUPPORT OF EXCAVATION SECTIONS	■
SOE-111.00	SUPPORT OF EXCAVATION SECTIONS	■
SOE-112.00	SUPPORT OF EXCAVATION SECTIONS	■
SOE-113.00	SUPPORT OF EXCAVATION SECTIONS	■
SOE-114.00	SUPPORT OF EXCAVATION SECTIONS	■
SOE-115.00	SUPPORT OF EXCAVATION DETAILS AND SECTIONS	■
SOE-116.00	SUPPORT OF EXCAVATION DETAILS AND SECTIONS	■
STRUCTURAL		
FO-001.00	GENERAL NOTES, LEGENDS, AND ABBREVIATIONS	■
FO-002.00	TA NOTES	■
FO-100.00	FOUNDATION PLAN	■
FO-200.00	FOUNDATION TYPICAL DETAILS 1	■
FO-201.00	FOUNDATION TYPICAL DETAILS 2	■
FO-202.00	FOUNDATION TYPICAL DETAILS 3	■
FO-203.00	FOUNDATION TYPICAL DETAILS 4	■
FO-300.00	FOUNDATION SECTIONS	■

SHEET #	SHEET NAME	DOB FILING SET 07/15/16
FO-301.00	FOUNDATION SECTIONS 2	■
FO-310.00	FOUNDATION AND NYCT TRACKS SECTION 1	■
FO-311.00	FOUNDATION AND NYCT TRACKS SECTION 2	■
FO-312.00	FOUNDATION AND NYCT TRACKS SECTION 3	■
FO-313.00	FOUNDATION AND NYCT TRACKS SECTION 4	■
STRUCTURAL		
S-001.00	CELLAR FRAMING PLAN	■
S-002.00	CELLAR PART PLAN 1	■
S-003.00	CELLAR PART PLAN 2	■
S-010.00	GROUND FLOOR FRAMING PLAN	■
S-011.00	GROUND FLOOR PART PLAN 1	■
S-012.00	GROUND FLOOR PART PLAN 2	■
S-020.00	2ND FLOOR FRAMING PLAN	■
S-021.00	2ND FLOOR PART PLAN 1	■
S-022.00	2ND FLOOR PART PLAN 2	■
S-030.00	3RD FLOOR FRAMING PLAN	■
S-031.00	3RD FLOOR PART PLAN 1	■
S-032.00	3RD FLOOR PART PLAN 2	■
S-040.00	4TH FLOOR FRAMING PLAN	■
S-041.00	4TH FLOOR PART PLAN 1	■
S-042.00	4TH FLOOR PART PLAN 2	■
S-050.00	5TH FLOOR FRAMING PLAN	■
S-051.00	5TH FLOOR PART PLAN 1	■
S-052.00	5TH FLOOR PART PLAN 2	■
S-060.00	6TH FLOOR FRAMING PLAN	■
S-070.00	7TH FLOOR FRAMING PLAN	■
S-080.00	8TH FLOOR FRAMING PLAN	■
S-090.00	9TH-14TH FLOOR FRAMING PLAN	■
S-150.00	15TH FLOOR FRAMING PLAN	■
S-160.00	16TH-21ST FLOOR FRAMING PLAN	■
S-220.00	22ND FLOOR FRAMING PLAN	■
S-230.00	23RD-26TH FLOOR FRAMING PLAN	■
S-270.00	27TH FLOOR FRAMING PLAN	■
S-275.00	27TH FLOOR MEZZANINE FRAMING PLAN	■
S-280.00	28TH FLOOR FRAMING PLAN	■
S-290.00	29TH-33RD FLOOR FRAMING PLAN	■
S-340.00	34TH FLOOR FRAMING PLAN	■
S-350.00	35TH-39TH FLOOR FRAMING PLAN	■
S-400.00	40TH FLOOR FRAMING PLAN	■
S-410.00	41ST-44TH FLOOR FRAMING PLAN	■
S-450.00	45TH FLOOR FRAMING PLAN	■
S-460.00	46TH-48TH FLOOR FRAMING PLAN	■
S-490.00	49TH-51ST FLOOR FRAMING PLAN	■
S-500.00	50TH FLOOR FRAMING PLAN	■
S-510.00	51ST FLOOR FRAMING PLAN	■
S-520.00	52ND-55TH FLOOR FRAMING PLAN	■
S-560.00	56TH FLOOR FRAMING PLAN	■
S-570.00	57TH-60TH FLOOR FRAMING PLAN	■
S-610.00	61ST FLOOR FRAMING PLAN	■
S-620.00	62ND-64TH FLOOR FRAMING PLAN	■
S-650.00	65TH FLOOR FRAMING PLAN	■
S-660.00	66TH FLOOR FRAMING PLAN	■
S-670.00	67TH-69TH FLOOR FRAMING PLAN	■
S-700.00	70TH FLOOR FRAMING PLAN	■
S-710.00	71ST FLOOR FRAMING PLAN	■
S-720.00	72ND FLOOR FRAMING PLAN	■
S-730.00	72ND +16'-0" FLOOR FRAMING PLAN	■
S-740.00	72ND +32' FLOOR FRAMING PLAN	■
S-750.00	ROOF FRAMING PLAN	■
S-760.00	BMU / COOLING TOWERS FRAMING PLAN	■
S-920.00	SHEARWALL SW1 ELEVATION	■
S-921.00	SHEARWALL SW1A ELEVATION 1	■
S-922.00	SHEARWALL SW1A ELEVATION 2	■
S-923.00	SHEARWALL SW2 ELEVATION 1	■
S-924.00	SHEARWALL SW2 ELEVATION 2	■
S-925.00	SHEARWALL SW2 ELEVATION 3	■
S-926.00	SHEARWALL SW3 ELEVATION 1	■
S-927.00	SHEARWALL SW3 ELEVATION 2	■
S-928.00	SHEARWALL SW3 ELEVATION 3	■
S-929.00	SHEARWALL SW4 ELEVATION 1	■
S-930.00	SHEARWALL SW4 ELEVATION 2	■
S-931.00	SHEARWALL SW4 ELEVATION 3	■
S-940.00	SHEARWALL REINFORCEMENT @ FOUNDATION TO U/S 28th FLOOR	■
S-941.00	SHEARWALL REINFORCEMENT @ 28th FLOOR TO ROOF	■
S-945.00	TYPICAL SHEARWALL DETAILS	■
S-946.00	LINK BEAM SCHEDULE	■
S-950.00	COLUMN SCHEDULE 1	■
S-951.00	COLUMN SCHEDULE 2	■
S-955.00	TYPICAL COLUMN DETAILS	■
S-960.00	TYPICAL SUPERSTRUCTURE DETAILS 1	■
S-961.00	TYPICAL SUPERSTRUCTURE DETAILS 2	■
S-962.00	TYPICAL SUPERSTRUCTURE DETAILS 3	■
S-963.00	TYPICAL SUPERSTRUCTURE DETAILS 4	■
S-965.00	TYPICAL MASONRY DETAILS	■
S-980.00	TYPICAL STAIR DETAILS	■
MECHANICAL		
M-001.00	HVAC COVER SHEET	■
M-002.00	HVAC ABBREVIATIONS AND SYMBOLS	■
M-099.00	HVAC FLOOR PLAN- SUBCELLAR	■
M-100.00	HVAC FLOOR PLAN- CELLAR	■
M-101.00	HVAC FLOOR PLAN- LEVEL 01	■
M-102.00	HVAC FLOOR PLAN- LEVEL 02	■
M-103.00	HVAC FLOOR PLAN- LEVEL 03	■
M-104.00	HVAC FLOOR PLAN- LEVEL 04	■
M-105.00	HVAC FLOOR PLAN- LEVEL 05	■
M-106.00	HVAC FLOOR PLAN- LEVEL 06	■
M-107.00	HVAC FLOOR PLAN- LEVEL 07 MECHANICAL	■
M-108.00	HVAC FLOOR PLAN- LEVEL 08 (TYP. 08-14)	■
M-115.00	HVAC FLOOR PLAN- LEVEL 15 (TYP. 15-21)	■
M-122.00	HVAC FLOOR PLAN- LEVEL 22 (TYP. 22-26)	■
M-127.00	HVAC FLOOR PLAN- LEVEL 27 MECHANICAL	■
M-128.00	HVAC FLOOR PLAN- LEVEL 27 MEZZANINE MECHANICAL	■
M-129.00	HVAC FLOOR PLAN- LEVEL 28 (TYP. 28-33)	■
M-134.00	HVAC FLOOR PLAN- LEVEL 34 (TYP. 34-39)	■
M-140.00	HVAC FLOOR PLAN- LEVEL 40 (TYP. 40-44)	■
M-145.00	HVAC FLOOR PLAN- LEVEL 45 (TYP. 45-48)	■
M-149.00	HVAC FLOOR PLAN- LEVEL 49 MECHANICAL	■
M-150.00	HVAC FLOOR PLAN- LEVEL 50 MECH./WINDBREAK	■
M-151.00	HVAC FLOOR PLAN- LEVEL 51 (TYP. 51-55)	■
M-156.00	HVAC FLOOR PLAN- LEVEL 56 (TYP. 56-60)	■
M-161.00	HVAC FLOOR PLAN- LEVEL 61 (TYP. 61-64)	■
M-165.00	HVAC FLOOR PLAN- LEVEL 65 MECH./WINDBREAK	■
M-166.00	HVAC FLOOR PLAN- LEVEL 66 (TYP. 66-69)	■
M-170.00	HVAC FLOOR PLAN- LEVEL 61 (TYP. 70-71)	■
M-172.00	HVAC FLOOR PLAN- LEVEL 72 MECHANICAL	■
M-173.00	HVAC FLOOR PLAN- LEVEL 72 + 16'	■
M-174.00	HVAC FLOOR PLAN- LEVEL 72 + 32'	■
M-175.00	HVAC FLOOR PLAN- ROOF	■
M-176.00	HVAC FLOOR PLAN- ROOF +48'	■
M-400.00	HVAC HOT WATER FLOW DIAGRAM #1	■
M-401.00	HVAC HOT WATER FLOW DIAGRAM #2	■
M-402.00	HVAC CONDENSER WATER FLOW DIAGRAM #1	■
M-403.00	HVAC CONDENSER WATER FLOW DIAGRAM #2	■
M-404.00	HVAC AIR FLOW DIAGRAM #1	■
M-405.00	HVAC AIR FLOW DIAGRAM #2	■
M-406.00	HVAC FUEL OIL AIR FLOW DIAGRAM	■
M-500.00	HVAC SCHEDULE SHEET NO.1	■
M-501.00	HVAC SCHEDULE SHEET NO.2	■
M-600.00	HVAC DETAIL SHEET NO. 1	■

SHEET #	SHEET NAME	DOB FILING SET 07/15/16
M-601.00	HVAC DETAIL SHEET NO. 2	■
M-602.00	HVAC DETAIL SHEET NO. 3	■
M-603.00	HVAC DETAIL SHEET NO. 4	■
FIRE PROTECTION		
FP-001.00	FIRE PROTECTION COVER SHEET, NOTES, & ABBREVIATIONS	■
FP-099.00	FIRE PROTECTION FLOOR PLAN - SUBCELLAR	■
FP-100.00	FIRE PROTECTION FLOOR PLAN - CELLAR	■
FP-101.00	FIRE PROTECTION FLOOR PLAN - LEVEL 01	■
FP-102.00	FIRE PROTECTION FLOOR PLAN - LEVEL 02	■
FP-103.00	FIRE PROTECTION FLOOR PLAN - LEVEL 03	■
FP-104.00	FIRE PROTECTION FLOOR PLAN - LEVEL 04	■
FP-105.00	FIRE PROTECTION FLOOR PLAN - LEVEL 05	■
FP-106.00	FIRE PROTECTION FLOOR PLAN - LEVEL 06	■
FP-107.00	FIRE PROTECTION FLOOR PLAN - LEVEL 07 MECHANICAL	■
FP-108.00	FIRE PROTECTION FLOOR PLAN - LEVEL 08 (TYP. 8-14)	■
FP-115.00	FIRE PROTECTION FLOOR PLAN - LEVEL 15 (TYP. 15-21)	■
FP-122.00	FIRE PROTECTION FLOOR PLAN - LEVEL 22 (TYP. 22-26)	■
FP-127.00	FIRE PROTECTION FLOOR PLAN - LEVEL 27 MECHANICAL	■
FP-128.00	FIRE PROTECTION FLOOR PLAN - LEVEL 27 MEZZANINE MECHANICAL	■
FP-129.00	FIRE PROTECTION FLOOR PLAN - LEVEL 28 (TYP. 28-33)	■
FP-134.00	FIRE PROTECTION FLOOR PLAN - LEVEL 34 (TYP. 34-39)	■
FP-140.00	FIRE PROTECTION FLOOR PLAN - LEVEL 40 (TYP. 40-44)	■
FP-145.00	FIRE PROTECTION FLOOR PLAN - LEVEL 45 (TYP. 45-48)	■
FP-149.00	FIRE PROTECTION FLOOR PLAN - LEVEL 49 MECHANICAL	■
FP-150.00	FIRE PROTECTION FLOOR PLAN - LEVEL 50 MECH/ WINDBREAK	■
FP-151.00	FIRE PROTECTION FLO

HOUSING MAINTENANCE CODE:
THE FOLLOWING REPRESENTS A SUMMARY OF THE APPLICABLE PROVISIONS AND REQUIREMENTS OF THE HOUSING MAINTENANCE CODE IN EFFECT AS OF THE DATE OF THIS FILING. THE BUILDING OWNER AND THE CONTRACTOR SHOULD REFER TO THE CODE FOR FURTHER DETAILS OR CLARIFICATION AS REQUIRED.

SUBCHAPTER II
27- 2012: THE OCCUPANT OF A DWELLING SHALL MAINTAIN IT IN A CLEAN AND SANITARY CONDITION.
27- 2013: THE BUILDING OWNER SHALL MAINTAIN WALL AND CEILINGS IN PUBLIC AREAS WITH PAINT OR WALLPAPER. THE BUILDING OWNER SHALL KEEP RECORDS OF SUCH MAINTENANCE.
27- 2014: WINDOW FRAMES AND SASHES SHALL BE PAINTED WITH ONE COAT OF EXTERIOR PAINT EVERY FIVE YEARS. THIS PROVISION SHALL NOT APPLY TO ALUMINUM OR OTHER CORROSION RESISTANT WINDOWS.
27- 2015: COURTS AND SHAFTS, WHICH DO NOT OPEN DIRECTLY ONTO A STREET. SHALL BE WHITEWASHED, AND SHALL BE MAINTAINED IN A CLEAN AND PAINTED CONDITION.
27- 2018: THE BUILDING OWNER SHALL KEEP THE PREMISES FREE FROM RODENTS AND OTHER INFESTATIONS OF INSECTS OR PESTS.
27- 2021: THE BUILDING OWNER SHALL PROVIDE AND MAINTAIN APPROVED FACILITIES FOR COLLECTION OF WASTE. COLLECTED WASTE SHALL BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF AGENCIES HAVING JURISDICTION.
27- 2024: THE BUILDING OWNER SHALL MAINTAIN AN ADEQUATE SUPPLY OF PURE AND WHOLESOME WATER TO EACH DWELLING UNIT.
27- 2026: THE BUILDING OWNER SHALL PROPERLY MAINTAIN THE PLUMBING AND DRAINAGE SYSTEM.
27- 2027: ROOFS, TERRACES, YARDS. AND OTHER OPEN AREAS SHALL BE PROPERLY PITCHED AND DRAINED TO CARRY STORM WATER INTO THE STREET STORM WATER DRAIN.
27- 2028: EACH DWELLING UNIT SHALL BE PROVIDED WITH HEAT FROM A CENTRAL HEATING SYSTEM AT THE MINIMUM TEMPERATURE AND FOR THE HOURS AND DURATION SPECIFIED IN THIS ARTICLE.
27- 2029: THE BUILDING TEMPERATURE SHALL BE MAINTAINED IN ACCORDANCE WITH THIS SECTION.
27- 2031: HOT WATER SHALL BE SUPPLIED TO EACH UNIT AT A MINIMUM TEMPERATURE OF 120 DEGREES BETWEEN THE HOURS OF SIX A.M. AND MIDNIGHT.
27- 2037: EVERY DWELLING UNIT SHALL BE EQUIPPED WITH ELECTRIC LIGHTING.
27 - 2038: PUBLIC HALLS AND STAIRWAYS SHALL BE EQUIPPED WITH ELECTRIC LIGHTING IN COMPLIANCE WITH THE REQUIREMENTS OF THIS SECTION. LIGHTING SHALL CONSIST OF 25 WATTS INCANDESCENT LIGHTING OF 4 WATTS COOL WHITE FLORESCENT LIGHTING PER 25 SQUARE FEET OF FLOOR AREA.
27-040: LIGHTING SHALL BE PROVIDED OUTSIDE THE BUILDING ENTRANCE IN COMPLIANCE WITH THIS SECTION.
27- 2041: ENTRANCE DOORS SHALL BE PROVIDED WITH PEEPHOLES.
27- 2043: EACH DWELLING UNIT SHALL BE EQUIPPED WITH A CHAIN DOOR GUARD AND KEY LOCK WITH A KEY- OPERATED DEAD BOLT.
27- 2045: EACH DWELLING UNIT SHALL BE EQUIPPED WITH ONE OR MORE APPROVED SMOKE DETECTORS IN COMPLIANCE WITH THIS SECTION AND OTHER APPLICABLE CODE AND REGULATIONS.
27- 2047: THE BUILDING SHALL BE PROVIDED WITH APPROVED MAILBOXES.
27 - 2048: EACH FLOOR SHALL BE POSTED WITH A SIGN WHICH STATES THE NUMBER OF THE FLOOR.
STREET NUMBERS SHALL BE POSTED.
27- 2049: SPRINKLERS SHALL BE MAINTAINED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS
27- 2050: SECTION.

SUBCHAPTER III
ARTICLE 1: LIGHTING AND VENTILATION OF DWELLING UNITS SHALL COMPLY WITH THIS ARTICLE AND WITH ALL OTHER APPLICABLE CODES AND REGULATIONS.
ARTICLE 2: SANITARY FACILITIES
WATER CLOSETS SHALL BE LOCATED AND CONSTRUCTED IN COMPLIANCE WITH THE ARTICLE AND WITH ALL OTHER APPLICABLE CODES AND REGULATIONS.
ARTICLE 3: KITCHENS AND KITCHENETTES
27- 2070: EVERY DWELLING UNIT SHALL BE PROVIDED WITH A KITCHEN OF KITCHENETTE EQUIPPED WITH A SINK AND COOKING RANGE.
27- 2071: EVERY KITCHEN OR KITCHENETTE SHALL BE PROVIDED WITH LIGHTING AND VENTILATION COMPLYING WITH THIS SECTION AND WITH ALL OTHER APPLICABLE CODES AND REGULATIONS
ARTICLE 4: MINIMUM ROOM SIZES AND OCCUPANCY OF DWELLING UNITS SHALL COMPLY WITH THIS ARTICLE AND WITH ALL OTHER APPLICABLE CODES AND REGULATIONS.

SUBCHAPTER IV
THE BUILDING OWNER SHALL REGISTER THE BUILDING WITH CITY AGENCIES AS REQUIRED BY THIS ARTICLE PRIOR TO OBTAINING A CERTIFICATE OF OCCUPANCY.

MULTIPLE DWELLING LAW:

GENERAL PROVISIONS
1. LIGHTING AND VENTILATION OF ROOMS SHALL BE AS PER SECTION 30, ML
2. SIZE OF ROOMS SHALL BE AS PER SECTION 31, MDL
3. ALCOVES SHALL BE AS PER SECTION 32, MDL
4. BUILDING ENTRANCE DOORS AND LIGHTS SHALL BE AS PER SECTION 35, MDL
5. WINDOWS AND SKYLIGHTS FOR PUBLIC HALLS AND STAIRS SHALL BE AS PER SECTION 36, MDL.
6. ARTIFICIAL HALL LIGHTING SHALL BE AS PER SECTION 37, MDL.
7. ENTRANCE HALLS TO BE AS PER SECTION 5-0, MDL.
8. ALL SHAFTS, ELEVATORS AND DUMBWAITERS SHALL BE AS PER SECTION 5 1, MOL
9. STAIRS SHALL BE AS PER SECTION 52, MOL
10. WAINSCOTING SHALL BE AS PER SECTION 55, MOL
11. MAIL RECEPTACLES SHALL BE AS PER SECTION 57, MOL.
12. ALL INCOMBUSTIBLE MATERIALS SHALL BE AS PER SECTION 58, MDL.
13. PARAPETS AND GUARD RAILINGS SHALL BE AS PER SECTION 62, MDL
14. SUB- CURB USES SHALL BE AS PER SECTION 63. MOL.
15. LIGHTING, GAS METERS. GAS AND OIL APPLIANCES SHALL BE AS PER SECTION 64, MOL
16. BOILER ROOMS SHALL BE AS PER SECTION 65. MOL
17. WATER SUPPLY SHALL BE AS PER SECTION 75, MOL
18. WATER CLOSET AND BATH ACCOMMODATIONS SHALL BE AS PER SECTION 76, MOL.
19. PLUMBING AND DRAINAGE SHALL BE AS PER SECTION 77, MOL.
20. REPAIRS SHALL BE MADE AS PER SECTION 78, MDL.
21. HEAT SHALL BE PROVIDED AS PER SECTION 79, MOL.
22. CLEANLINESS SHALL BE AS PER SECTION 80, MDL.
23. RECEPTACLES FOR WASTE MATTER SHALL BE AS PER SECTION 81, MDL
24. PRIVACY SHALL BE AS PER SECTION 62. MDL.
25. JANITORIAL SERVICES SHALL BE AS PER SECTION 83, MDL.
26. CONSTRUCTION STANDARDS FOR THE CONTROL OF NOISE SHALL BE AS PER SECTION 84, MOL.

A.W.I.	ARCHITECTURAL WOODWORKING INSTITUTE	FND	FOUNDATION	OPP	OPPOSITE
ABV	ABOVE	FO	FACE OF	OZ	OUNCE
ACOUS	ACOUSTICAL	FP	FIREPROOF(ING)		
ACT	ACOUSTICAL CEILING TILE	FR	FIRE RATED	PDR	POWDER
AD	AREA DRAIN	FT	FOOT/FEET	PH	PENTHOUSE
ADA	AMERICANS WITH DISBILITIES ACT (ACCESSIBILITY GUIDELINES)	FTG	FOOTING	PL	PROPERTY LINE
				PLAM	PLASTIC LAMINATE
ADJ	ADJUSTABLE	GA	GAUGE	PLAS	PLASTIC
AFF	ABOVE FINISH FLOOR	GALV	GALVANIZED	PLBG	PLUMBING
AJC	ADJACENT	GC	GENERAL CONTRACTOR	PLT	PLATE
ALUM	ALUMINUM	GDS	GARBAGE DISPOSAL	PLYWD	PLYWOOD
ANOD	ANODIZED	GFRC	GLASS FIBER REINFORCED CONC.	POL	POLISHED
AP	ACCESS PANEL	GFRG	GLASS FIBER REINFORCED GYPSUM	PSF	POUNDS PER SQUARE FOOT
ARCH	ARCHITECT	GL	GLASS / GLAZING / GLAZE	PT	PRESSURE TREATED
ASB	ASSEMBLY	GR	GRADE	PTD	PAINTED
AST	ASPHALT COMPOSITE TILES	GUT	GUTTER	PTN	PARTITION
AVG	AVERAGE	GWB	GYPSUM WALL BOARD	PVC	POLY VINYL CHLORIDE
		GYP	GYPSUM		
				QTY	QUANTITY
B	BALCONY	H	HIGH		
BC	BRICK COURSE	H/C	HANDICAPPED	R	RISER
BITUM	BITUMINOUS	HB	HOSE BIBB	R.	RADIUS
BLDG	BUILDING	HC	HOLLOW CORE	RD	ROOF DRAIN
BM	BEAM	HD	HEAD	RECT	RECTANGULAR
BO	BOTTOM OF	HDF	HIGH DENSITY FIBER BOARD	REF	REFERENCE
BR	BRICK	HDWR	HARDWARE	REFRIG	REFRIGERATOR
BUR	BUILT-UP ROOF	HM	HOLLOW METAL	REINF	REINFORCING
BZ	BRONZE	HOLD.	HOLD DIMENSION	REQ'D	REQUIRED
		HORZ	HORIZONTAL	REV	REVISION
CA	CONSTRUCTION ADMINISTRATOR	HP	HIGH POINT	RF	ROOF
CAB	CABINET	HR	HOUR	RM	ROOM
CB	CATCH BASIN	HT	HEIGHT	RO	ROUGH OPENING
CC	CEMENTITIOUS COATING	HVAC	HEATING, VENTILATING AND AIR CONDITIONING.	SAN	SANITARY
CCT	COVE CERAMIC TILE			SC	SOLID CORE
CEM	CEMENT	HW	HOT WATER	SCH	SCHEDULE
CJ	CONTROL JOINT	HWH	HOT WATER HEATER	SEC	SECTION
CL	CENTERLINE			SF	SQUARE FOOT
CLG	CEILING	ICE.	ICE MAKER	SHT	SHEET
CLO	CLOSET	ID	INSIDE DIAMETER	SIM	SIMILAR
CLR	CLEAR	IN	INCH	SPEC	SPECIFICATION
CMU	CONCRETE MASONRY UNIT	INCAND	INCANDESCENT	SQ	SQUARE
COL	COLUMN	INSUL	INSULATION	SQ. YD.	SQUARE YARD
CONC	CONCRETE	INT	INTERIOR	SS	STAINLESS STEEL
CONN	CONNECTION			SSS	SILICONE SANITARY SEALANT
CONST	CONSTRUCTION	J-BOX	JUNCTION BOX	ST	STONE
CONT	CONTINUOUS	JAN	JANITOR	STD	STANDARD
CORR	CORRIDOR	JC	JANITOR'S CLOSET	STL	STEEL
CPT	CARPET	JST	JOIST	STP	STAND PIPE
CT	CERAMIC TILE	JT	JOINT	STR	STAIR
CTR	CENTER			STRUC	STRUCTURE / STRUCTURAL
CW	COLD WATER	KD	KNOCKED DOWN	SUP	SUPPLY
		KE	KITCHEN EXHAUST	SUSP	SUSPENDED
D	DEPTH	KIT	KITCHEN	SYM	SYMMETRICAL
DEMO	DEMOLITION	KO	KNOCKOUT	SYS	SYSTEM
DIA	DIAMETER				
DIM	DIMENSION	L	LENGTH	T	TREAD
DISP	DISPENSER	LAM	LAMINATE	T&G	TONGUE & GROOVE
DISPL	DISPOSAL	LAV	LAVATORY	T.O.	TOP OF
DN	DOWN	LBS	POUNDS	TBD	TO BE DETERMINED
DP	DAMPPROOFING	LIN	LINEAR	TBS	TO BE SPECIFIED
DR	DOOR	LT	LIGHT / LIGHTING	TEL	TELEPHONE
DS	DOWNSPOUT			TEMP	TEMPERATURE
DTL	DETAIL	MACH	MACHINE	TEX	TOILET EXHAUST
DW	DRYWALL	MAR	MARBLE	THD	THRESHOLD
DWG	DRAWING	MAS	MASONRY	THK	THICK
DWSR	DISHWASHER	MAX	MAXIMUM	TLT	TOILET
		MC	MECHANICAL CONTRACTOR	TYP	TYPICAL
EA	EACH	MDF	MEDIUM DENSITY FIBER BOARD		
EC	ELECTRICAL CONTRACTOR	MDO	MEDIUM DENSITY OVERLAY	UL	UNDERWRITER'S LABORATORY
EIFS	EXT. INSULATION + FIN. SYS.	MECH	MECHANICAL	UON	UNLESS OTHERWISE NOTED
EJ	EXPANSION JOINT	MEMB	MEMBRANE	USG	U.S. GYPSUM COMPANY
EL	ELEVATION	MFD	MANUFACTURED		
ELEC	ELECTRICAL	MFR	MANUFACTURER	VCT	VINYL COMPOSITION TILE
ELEV	ELEVATOR	MH	MANHOLE	VERT	VERTICAL
ENCL	ENCLOSURE	MIN	MINIMUM	VEST	VESTIBULE
EQ	EQUAL	MIR	MIRROR	VIF	VERIFY IN FIELD
EQUIP	EQUIPMENT	MISC	MISCELLANEOUS		
EST	ESTIMATE	MW	MICROWAVE	W	WIDE / WIDTH
EX	EXISTING	MO	MASONRY OPENING	W	WITH
EXH	EXHAUST	MTL	METAL	W/O	WITHOUT
EXP	EXPANSION	MULL	MULLION	WC	WATER CLOSET
EXSB	EXTERIOR GRADE SOFFIT BOARD			WD	WOOD
EXT	EXTERIOR	NIC	NOT IN CONTRACT	WP	WATERPROOFING
		NO	NUMBER	WPMEM	WATERPROOF MEMBRANE
F&I	FURNISH AND INSTALL	NOM	NOMINAL	WPT	WORKING POINT
FAB	FABRICATE	NTS	NOT TO SCALE	WR	WATER RESISTANT
FBP	FABRIC PANEL	OA	OUTSIDE AIR	WRGB	WATER RESISTANT GYPSUM BOARD
FD	FLOOR DRAIN	OC	ON CENTER	WS	WET STACK
FE	FIRE EXTINGUISHER	OD	OUTSIDE DIAMETER	WT	WEIGHT
FIN	FINISH(ED)	OFF	OFFICE		
FLG	FLOORING	OPG	OPENING	&	AND
FLR	FLOOR			+/-	PLUS AND MINUS
FLUOR	FLOURESCENT			@	AT
				~	DIAMETER
				°	DEGREE

INDEX OF ABBREVIATIONS

SECTION MARK — 1 / A-101.00 — SIM
CURTAIN PANEL TAG — 1|
AREA TAG — 101 / Area Name / 150 SF
ELEVATION MARK — 1 Ref / Ref / A-101.00 / 1 Ref
WALL TAG — A1
ROOM TAG — Room name / 150 SF
INTERIOR ELEVATION MARK — Ref / 1 / A-101.00
ARCHITECTURAL FEATURE TAG — AF-A1
AREA TAG - OCCUPANCY AND EGRESS

AREA NAME	X#
AREA =	10000 SF
OCCUPANCY FACTOR =	15
OCCUPANCY =	497

GRID LINE — A
DOOR TAG — A1 / 001

DOOR	1#
DOOR WIDTH =	40"
EGRESS CAPACITY =	200
EGRESS LOAD =	200

DOOR TAG - OCCUPANCY AND EGRESS
LEVEL LINE
CEILING TAG — A 11'-2"

STAIR	
STAIR WIDTH =	60"
EGRESS CAPACITY =	200
EGRESS LOAD =	200

STAIR TAG - OCCUPANCY AND EGRESS
CENTERLINE
MATERIAL TAG — ?
PATH OF TRAVEL
SPOT ELEVATION
DEMOLITION TAG — 00
EXIT LIGHT WITH DIRECTIONAL ARROWS
REVISION TAG — 1

INDEX OF SYMBOLS

DEPARTMENT OF BUILDINGS NOTES

1. NOTIFICATION OF THE DEPARTMENT OF BUILDINGS AND ADJOINING PROPERTY OWNERS REQUIRED PRIOR TO THE COMMENCEMENT OF SOIL AND FOUNDATION WORK. §28.2-3304.3.1 & 2
2. TRANSIT AUTHORITY APPROVAL REQUIRED; BUILDING IS WITHIN 200' OF TRANSIT AUTHORITY LOCATION OR OTHER RAILWAY RIGHT OF WAY. §28.2-3304.3.5
3. THE BUILDING IS NOT LOCATED WITHIN A FLOOD ZONE. SEE Z-103.
4. DEMO WORK PROPOSED; NOTIFICATION OF THE DEPARTMENT OF BUILDINGS AND ADJOINING BUILDING OWNERS REQUIRED PRIOR TO THE COMMENCEMENT OF WORK. §28.2-3306.3. DEMOLITION APPLICATION #: 321249485.
5. A PORTION OF THE PROJECT INCLUDES A LANDMARKED BUILDING. LPC APPROVAL REQUIRED.
6. SPRINKLER AND STANDPIPE FILED AS A SEPARATE APPLICATION #: 304251676.
7. FIRE ALARM FILED AS A SEPARATE APPLICATION #: 321116314.
8. CURB CUT FILED AS A PART OF THE NEW BUILDING APPLICATION #: 320914338.
9. BUILDER'S PAVING PLAN FILED AS A SEPARATE APPLICATION #: 340249234.

GENERAL NOTES
1. ALL WORK SHALL BE COVERED BY THE 2014 EDITION OF THE NEW YORK CITY BUILDING CODE AND ALL REQUIREMENTS SPECIFIED IN THE CODE SHALL BE ADHERED TO AS IF THEY WERE CALLED FOR OR SHOWN ON THE DRAWINGS. THIS SHALL NOT BE CONSTRUED TO MEAN THAT ANY REQUIREMENTS SET FORTH ON THESE DRAWINGS CAN BE MODIFIED BECAUSE THEY ARE MORE STRINGENT THAN THE CODE REQUIREMENTS OR BECAUSE THEY ARE NOT SPECIFICALLY REQUIRED BY THE CODE.
2. THE VARIOUS CONDITIONS AND DIMENSIONS SHOWN ON THE DRAWINGS ARE PRESUMED TO BE REASONABLY CORRECT. THE CONTRACTOR IS TO VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS THEREIN AND HE SHALL REPORT IMMEDIATELY TO THE ARCHITECT ANY DISCREPANCY.
3. THE CONTRACTOR BEFORE COMMENCING ANY WORK SHALL PROVIDE WORKMEN'S COMPENSATION, DISABILITY, AND LIABILITY INSURANCE. IN ADDITION, THE CONTRACTOR SHALL NOTIFY ALL PROPER AUTHORITIES HAVING JURISDICTION UPON COMPLETION OR AS MAY BE REQUIRED.
4. THE CONTRACTOR SHALL COMPLY FULLY WITH CHAPTER 33 OF THE 2014 EDITION OF THE NEW YORK CITY BUILDING CODE, "SAFEGUARDS DURING CONSTRUCTION OR DEMOLITION."
5. DRAWINGS ARE NOT TO BE SCALED. USE DIMENSIONS ONLY.
6. ELEVATIONS ARE ACTUAL AND REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
7. THE BUILDING COMPLIES WITH:
   a. THE 2014 EDITION OF THE NEW YORK CITY BUILDING CODE
   b. MULTIPLE DWELLING LAW
   c. HOUSING MAINTENANCE CODE
   d. NEW YORK ENERGY CONSERVATION CODE
   e. FEDERAL HOUSING AUTHORITY FAIR HOUSING ACT
8. ALL SPECIAL INSPECTIONS AS REQUIRED BY THE NEW YORK CITY BUILDING CODE SHALL BE PERFORMED BY EITHER A LICENSED ARCHITECT OR A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR AND AS APPROVED BY THE ARCHITECT OF RECORD.
9. SPECIAL INSPECTIONS REQUIRED BY THE 2014 EDITION OF THE NEW YORK CITY BUILDING CODE:
   a. FIRESTOP, DRAFTSTOP, AND FIREBLOCK SYSTEMS
   b. STEEL CERTIFICATIONS
   c. STRUCTURAL STEEL – WELDING
   d. STRUCTURAL STEEL – DETAILS
   e. STRUCTURAL STEEL – HIGH STRENGTH BOLTING
   f. STRUCTURAL COLD-FORMED STEEL
   g. STRUCTURAL STABILITY – EXISTING BUILDINGS
   h. SUBGRADE INSPECTION
   i. SUBSURFACE CONDITIONS - FILL PLACEMENT & IN-PLACEMENT DENSITY
   j. SUBSURFACE INVESTIGATIONS (BORING / TEST PITS)
   k. CONCRETE – CAST IN PLACE
   l. CONCRETE SAMPLING AND TESTING
   m. CONCRETE DESIGN MIX
   n. DEEP FOUNDATION ELEMENTS
   o. MASONRY
   p. MECHANICAL SYSTEMS
   q. HEATING SYSTEMS
   r. CHIMNEYS
   s. EMERGENCY AND STANDBY POWER SYSTEMS (GENERATORS)
   t. FUEL-OIL STORAGE AND FUEL-OIL PIPING SYSTEMS
   u. FIRE RESISTANT PENETRATIONS AND JOINTS
   v. LUMINOUS EGRESS PATH MARKINGS
   w. POST-INSTALLED ANCHORS
   x. EXCAVATIONS - SHEETING, SHORING, AND BRACING
   y. SPRINKLER SYSTEMS
   z. STANDPIPE SYSTEMS
   aa. UNDERPINNING
   bb. WALL PANELS, CURTAIN WALLS, AND VENEERS
   cc. SPRAYED FIRE-RESISTANT MATERIALS
10. PROGRESS INSPECTIONS REQUIRED BY THE 2014 EDITION OF THE NEW YORK CITY BUILDING CODE:
   a. PRELIMINARY
   b. FOOTING AND FOUNDATION
   c. ENERGY CODE COMPLIANCE INSPECTION
   d. FIRE-RESISTANCE RATED CONSTRUCTION
   e. PUBLIC ASSEMBLY EMERGENCY LIGHTING
   f. FINAL
11. THE FOLLOWING APPLICATIONS WILL BE FILED SEPARATELY:
   a. BOILER
   b. BUILDER'S PAVEMENT PLAN
   c. FIRE ALARM
   d. EMERGENCY GENERATOR
   e. SITE SAFETY PLAN
12. APPLICATION FOR A CERTIFICATE OF OCCUPANCY SHALL BE ACCOMPANIED BY AN ACCURATE AND COMPLETE FINAL SURVEY MADE BY A LICENSED SURVEYOR, SHOWING THE LOCATION OF AND NEW BUILDING AND/OR EXTENSION TO AN EXISTING BUILDING, THE ELEVATION OF THE FIRST FLOOR, THE FINISHED GRADE OF OPEN SPACES ON THE LOT, THE LOCATION AND CONTROLLING GRADE OF WATERCOURSES, PAVED SWALES, AND SIMILAR ABOVE- GRADE METHODS OF STORM WATER DISPOSAL, THE LOCATION OF ALL CATCH BASINS ON THE PROPERTY, THE ESTABLISHED CURB LEVEL AND THE LOCATION OF ALL OTHER STRUCTURES AND IMPROVEMENTS SURFACES ON THE LOT. THE SURVEY SHALL ALSO SHOW THE LOCATION AND BOUNDARIES OF THE LOT OR PLOT UPON WHICH SUCH BUILDINGS AND STRUCTURES ARE LOCATED.
13. THIS PROJECT DOES NOT INCLUDE MODULAR CONSTRUCTION.
14. CONTRACTOR SHALL NOTIFY DOB AND ENGINEER 24 TO 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
15. THIS PROJECT WILL COMPLY WITH TPPN 10/88, TO AVOID DAMAGE TO HISTORIC LANDMARK STRUCTURES ADJACENT TO THE BUILDING

MULTIPLE DWELLING LAW
1. THE BUILDING SHALL COMPLY WITH ARTICLE 3 ("GENERAL PROVISIONS") AND ARTICLE 4 ("FIREPROOF MULTIPLE DWELLINGS") EXCEPT AS SUPERSEDED BY THE NEW YORK CITY ZONING RESOLUTION OR THE BUILDING CODE OF THE CITY OF NEW YORK.

FIRE EXTINGUISHER EQUIPMENT
1. PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED IN OCCUPANCIES AND LOCATIONS AS REQUIRED BY THE NEW YORK CITY FIRE CODE (FC 906).

SMOKE DETECTOR / SMOKE ALARM NOTES
1. EACH DWELLING UNIT SHALL BE EQUIPPED WITH AN APPROPRIATE TYPE SMOKE DETECTOR / SMOKE ALARM DEVICE RECEIVING PRIMARY POWER FROM THE BUILDING WIRING WITH NO SWITCH ON THE CIRCUIT OTHER THAN THE OVERCURRENT DEVICE PROTECTING THE BRANCH CIRCUIT, AS PER §28.2-907.
2. SMOKE DETECTORS MUST BE INSTALLED ON CEILING OR WALL WITHIN 15 FEET OF THE DOOR TO EACH SLEEPING ROOM, AS INDICATED IN PLAN PER NFPA #74-1980.
3. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE DETECTORS MUST BE FILED WITH THE DIVISION OF CODE ENFORCEMENT HPD, 10 DAYS AFTER INSTALLATION IS COMPLETE.

CARBON MONOXIDE DETECTOR NOTES
1. HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH §28.2-908 AND BE INSTALLED IN ACCORDANCE WITH §28.2-908.7.1.2.
2. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE DETECTORS MUST BE FILED WITH THE DIVISION OF CODE ENFORCEMENT HPD, 10 DAYS AFTER INSTALLATION IS COMPLETE.

NOISE CONTROL
1. INTERIOR WALLS, PARTITIONS, FLOOR AND CEILING CONSTRUCTION, AND MACHINE AND EQUIPMENT ROOMS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH §28.2-120?, IN ORDER TO PROVIDE MINIMUM PROTECTION TO EACH DWELLING UNIT FROM NOISE EMANATING FROM OTHER DWELLING UNITS, PUBLIC OR SERVICE AREAS, STAIRS, MECHANICAL EQUIPMENT SPACES, ELEVATOR SHAFTS, AND EXTERIOR MECHANICAL EQUIPMENT.
2. WALLS, PARTITIONS, AND FLOOR AND CEILING ASSEMBLIES ARE TO HAVE A MINIMUM STC RATING OF 50 FOR AIR-BORNE NOISE. DWELLING UNIT ENTRANCE DOORS SHALL HAVE A MINIMUM STC RATING OF 30.
3. THE OWNER IS AWARE THAT HE MUST ENGAGE THE SERVICES OF AN APPROVED SOUND MEASURING ORGANIZATION TO MEASURE THE STC OF PARTITIONS, FLOORS, AND DUCTS BETWEEN APARTMENTS, AS PER DIRECTIVE #5 OF 1972. TEST RESULTS MUST BE SUBMITTED TO THE BUILDING DEPARTMENT WITH AMENDMENT.

INTERIOR FINISHES
1. INTERIOR FINISHES TO HAVE FLAME SPREAD RATINGS IN ACCORDANCE WITH TABLE 803.1, AND ALL INTERIOR FINISHES ARE TO COMPLY WITH CHAPTER 8 OF THE 2014 EDITION OF THE NEW YORK CITY BUILDING CODE; "INTERIOR FINISHES."

SHAFT CONSTRUCTION
1. ALL SHAFT CONSTRUCTION SHALL BE OF NON-COMBUSTIBLE MATERIALS AND SHALL HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 2 HOURS WHEN PENETRATING MORE THAN 3 STORIES.
2. OPENINGS INTO A SHAFT ENCLOSURE SHALL BE PROTECTED IN ACCORDANCE WITH §28.2-715.

PENETRATIONS
1. PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRE-STOP SYSTEM IN ACCORDANCE WITH ASTM E814 OR UL 1479.

RODENT PROOFING
1. ALL WALLS, FLOORS, DOORS, WINDOWS, AND OPENINGS SHALL BE RODENT PROOFED AS PER REQUIREMENTS OF APPENDIX F OF THE 2014 EDITION OF THE NEW YORK CITY BUILDING CODE; "RODENT PROOFING."

NOTES

PROJECT DESCRIPTION

PROJECT NAME: 9 DEKALB AVENUE
ADDRESS: 340 FLATBUSH AVENUE EXTENSION, BROOKLYN, NY 11201
BLOCK: 149
TAX LOT: 100
ZONING DISTRICT: C6-4.5 / SPECIAL DOWNTOWN BROOKLYN DISTRICT
THE PROJECT INVOLVES THE ALTERATION OF A LANDMARKED BUILDING

PROPOSED OCCUPANCY CLASSIFICATION

THE BUILDING IS DESIGNED AS A MIXED USE, NON-SEPARATED OCCUPANCY (§28.2-508.3), CONTAINING THE FOLLOWING OCCUPANCLASSIFICATIONS:
RESIDENTIAL (R-2)
RESIDENTIAL STORAGE (R-2 ACCESSORY)
MECHANICAL (R-2 ACCESSORY / F-2)
MERCANTILE (M)
ASSEMBLY (A-3)
LOADING DOCK (S-1)
STORAGE (S-2)
PARKING GARAGE (S-2)

THE BUILDING WILL COMPLY WITH THE NECESSARY HIGH-RISE BUILDINGS PROVISIONS OF THE BUILDING CODE (§28.2-403)

CODE SUMMARY
THE BUILDING WILL COMPLY FULLY WITH THE 2014 EDITION OF THE NEW YORK CITY BUILDING CODE, INCLUDING, BUT NOT LIMITED TO THE ITEMS BELOW.

	ITEM	CODE SUMMARY	SECTION
1	CONSTRUCTION TYPE	1A	403.2.1 602.2
2	IMPACT-RESISTNANT STAIR ENCLOSURES	THE WALL ASSEMBLIES MAKING UP THE EXIT ENCLOSURES AND ELEVATOR HOISTWAY ENCLOSURES SHALL MEET OR EXCEED SOFT BODY IMPACT CLASSIFICATION LEVEL 2 AS MEASURED BY THE TEST METHOD DESCRIBED IN ASTM C 1629/C 1629 M-5.	403.2.3.1
3	STAIRWAY DOOR OPERATION AND COMMUNICATIONS	DOORS OPENING INTO INTERIOR STAIR ENCLOSURES SHALL NOT BE LOCKED FROM EITHER SIDE.	403.5.3 403.5.3.1
4	SMOKE PROOF EXIT ENCLOSURES	ALL EXITS SHALL BE CONSTRUCTED AS SMOKEPROOF ENCLOSURES IN ACCORDANCE WITH SECTION 1022.9.	403.5.4 916.1 1022.9
5	ALLOWABLE BUILDING HEIGHTS AND AREAS	PER TABLE 503, ALL USE GROUPS LISTED HAVE UNLIMITED HEIGHT AND AREA IN A TYPE 1A BUILDING.	TABLE 503
6	SEPARATION OF OCCUPANCIES	THE BUILDING IS DESIGNED AS A MIXED USE, NON-SEPARATED OCCUPANCY, AND NO SEPARATION BETWEEN OCCUPANCIES IS REQUIRED.	508.3
7	INCIDENTAL USE	PROTECTION OF INCIDENTAL AREAS (E.G. BOILER ROOM, MECHANICAL ROOM, ETC) WITH FIRE BARRIER OR HORIZONTAL ASSEMBLY, AUTOMATIC SPRINKLER SYSTEM, OR COMBINATION.	509.4 TABLE 509
8	FIRE-RESISTANCE RATING FOR BUILDING ELEMENTS	PRIMARY STRUCTURAL FRAME: 3 HOURS BEARING WALLS (EXTERIOR): 3 HOURS BEARING WALLS (INTERIOR): 3 HOURS NONBEARING WALLS AND PARTITIONS (INTERIOR): 0 HOUR FLOOR CONSTRUCTION AND SECONDARY MEMBERS: 2 HOURS ROOF CONSTRUCTION AND SECONDARY MEMBERS: 1 ½ HOURS (0 HOURS WHERE EVERY PART OF THE CONSTRUCTION IS 20 FEET OR MORE ABOVE ANY FLOOR IMMEDIATELY BELOW)	TABLE 601
		EXTERIOR WALL: BASE: 0 HOUR BASE ALONG PROPERTY LINE WITH LOT 60: 1 HOUR TOWER: 0 HOUR	TABLE 602
9	COLUMN PROTECTION	FIRE-RESISTANCE OF COLUMNS IS REQUIRED TO BE CONTINUOUS FROM THE TOP OF THE FLOOR THROUGH THE CEILING SPACE TO THE TOP OF THE COLUMN. COLUMNS ARE REQUIRED TO BE INDIVIDUALLY PROTECTED.	704.2
10	SHAFT ENCLOSURES	NOT LESS THAN 2 HOUR ENCLOSURE FOR SHAFTS CONNECTING 3 FLOORS OR MORE NOT LESS THAN 1 HOUR ENCLOSURE FOR SHAFTS CONNECTING FEWER THAN 3 FLOORS	708.4
11	SMOKE VENTING OF CLOSED SHAFTS	ALL CLOSED SHAFTS HAVING A FLOOR AREA EXCEEDING 4 SQUARE FEET ARE REQUIRED TO BE PROVIDED WITH A SMOKE VENT IN ACCORDANCE WITH §28.2-708.12	708.12.1
		ELEVATOR HOIST WAYS SHALL BE VENTED IN ACCORDANCE WITH §28.2-3004.5.1	3004.5.1
12	PENETRATIONS THROUGH FIRE-RESISTANCE-RATED WALL ASSEMBLIES	THROUGH PENETRATIONS OF FIRE-RESISTANCE-RATED WALL ASSEMBLIES ARE TO BE PROTECTED IN ACCORDANCE WITH §28.2-713.3.	713.3
13	OPENING PROTECTIVES	3 HOUR RATED DOOR IN A 3 HOUR RATED WALL 1 ½ HOUR RATED DOOR IN A 2 HOUR RATED WALL	TABLE 715.4
14	DUCT AND AIR TRANSFER OPENINGS IN FIRE BARRIERS	FIRE DAMPERS ARE REQUIRED IN DUCT AND AIR TRANSFER OPENINGS IN FIRE BAR

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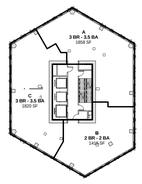
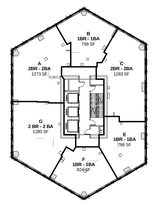
E 541110000 Scan Code



UPPER FLOORS UNIT TIER 8 | 1/32" = 1'-0" | 11 | G-003.00



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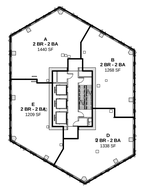

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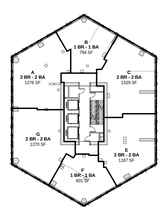

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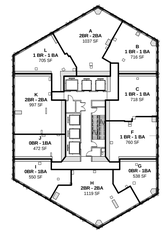
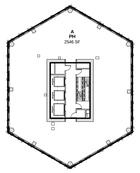
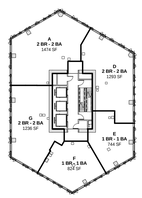


LOWER FLOORS UNIT TIER 3 | 1/32" = 1'-0" | 03 | G-003.00



UPPER FLOORS UNIT TIER 9 - PH | 1/32" = 1'-0" | 13 | G-003.00



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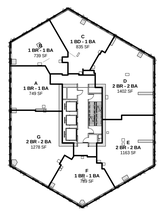

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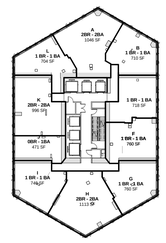

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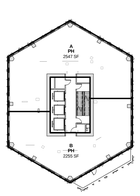
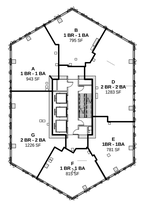


UPPER FLOORS UNIT TIER 9 - 2 PH | 1/32" = 1'-0" | 12 | G-003.00



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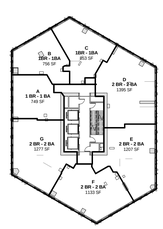

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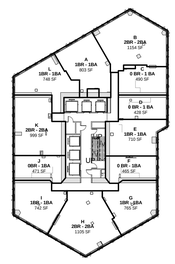

LOWER FLOORS UNIT TIER 1 | 1/32" = 1'-0" | 01 | G-003.00

LOWER FLOORS UNIT MIX					LOWER FLOORS STACK										
	0 BR	1 BR	2 BR	# UNITS	A	B	C	D	E	F	G	H	I	J	K	L
8	3	5	4	12	1 BR - 1 BA	2 BR - 2 BA	0 BR - 1 BA	0 BR -1 BA	1 BR - 1 BA	0 BR -1 BA	1 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA
9	3	5	4	12	1 BR - 1 BA	2 BR - 2 BA	0 BR - 1 BA	0 BR -1 BA	1 BR - 1 BA	0 BR -1 BA	1 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA
10	3	5	4	12	1 BR - 1 BA	2 BR - 2 BA	0 BR - 1 BA	0 BR -1 BA	1 BR - 1 BA	0 BR -1 BA	1 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA
11	3	5	4	12	1 BR - 1 BA	2 BR - 2 BA	0 BR - 1 BA	0 BR -1 BA	1 BR - 1 BA	0 BR -1 BA	1 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA
12	3	5	4	12	1 BR - 1 BA	2 BR - 2 BA	0 BR - 1 BA	0 BR -1 BA	1 BR - 1 BA	0 BR -1 BA	1 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA
13	3	5	4	12	1 BR - 1 BA	2 BR - 2 BA	0 BR - 1 BA	0 BR -1 BA	1 BR - 1 BA	0 BR -1 BA	1 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA
14	3	5	4	12	1 BR - 1 BA	2 BR - 2 BA	0 BR - 1 BA	0 BR -1 BA	1 BR - 1 BA	0 BR -1 BA	1 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA
15	3	6	1	10	2 BR - 2 BA	1 BR - 1 BA	1 BR - 1 BA			1 BR - 1 BA	1 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA
16	3	6	1	10	2 BR - 2 BA	1 BR - 1 BA	1 BR - 1 BA			1 BR - 1 BA	1 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA
17	3	6	1	10	2 BR - 2 BA	1 BR - 1 BA	1 BR - 1 BA			1 BR - 1 BA	1 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA
18	3	6	1	10	2 BR - 2 BA	1 BR - 1 BA	1 BR - 1 BA			1 BR - 1 BA	1 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA
19	3	6	1	10	2 BR - 2 BA	1 BR - 1 BA	1 BR - 1 BA			1 BR - 1 BA	1 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA
20	3	6	1	10	2 BR - 2 BA	1 BR - 1 BA	1 BR - 1 BA			1 BR - 1 BA	1 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA
21	3	6	1	10	2 BR - 2 BA	1 BR - 1 BA	1 BR - 1 BA			1 BR - 1 BA	1 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA
22	3	4	3	10	2 BR - 2 BA	1 BR - 1 BA	1 BR - 1 BA			1 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	0 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA
23	3	4	3	10	2 BR - 2 BA	1 BR - 1 BA	1 BR - 1 BA			1 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	0 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA
24	3	4	3	10	2 BR - 2 BA	1 BR - 1 BA	1 BR - 1 BA			1 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	0 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA
25	3	4	3	10	2 BR - 2 BA	1 BR - 1 BA	1 BR - 1 BA			1 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	0 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA
26	3	4	3	10	2 BR - 2 BA	1 BR - 1 BA	1 BR - 1 BA			1 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	0 BR - 1 BA	0 BR - 1 BA	2 BR - 2 BA	1 BR - 1 BA
TOTAL	57	97	50	204												

27 MECH

UPPER FLOORS UNIT MIX					UPPER FLOORS STACK						
	1 BR	2 BR	3 BR	PH	TOTAL #	A	B	C	D	E	F	G
28	3	4			7				2 BR - 2 BA	2 BR - 2 BA	2 BR - 2 BA	2 BR - 2 BA
29	3	4			7	1 BR - 1 BA	1 BR - 1 BA	1 BR - 1 BA	2 BR - 2 BA	2 BR - 2 BA	2 BR - 2 BA	2 BR - 2 BA
30	3	4			7	1 BR - 1 BA	1 BR - 1 BA	1 BR - 1 BA	2 BR - 2 BA	2 BR - 2 BA	2 BR - 2 BA	2 BR - 2 BA
31	3	4			7	1 BR - 1 BA	1 BR - 1 BA	1 BR - 1 BA	2 BR - 2 BA	2 BR - 2 BA	2 BR - 2 BA	2 BR - 2 BA
32	3	4			7	1 BR - 1 BA	1 BR - 1 BA	1 BR - 1 BA	2 BR - 2 BA	2 BR - 2 BA	2 BR - 2 BA	2 BR - 2 BA
33	3	4			7	1 BR - 1 BA	1 BR - 1 BA	1 BR - 1 BA	2 BR - 2 BA	2 BR - 2 BA	2 BR - 2 BA	2 BR - 2 BA
34	4	3			7	1 BR - 1 BA	1 BR - 1 BA	1 BR - 1 BA	2 BR - 2 BA	2 BR - 2 BA	1 BR - 1 BA	2 BR - 2 BA
35	4	3			7	1 BR - 1 BA	1 BR - 1 BA	1 BR - 1 BA	2 BR - 2 BA	2 BR - 2 BA	1 BR - 1 BA	2 BR - 2 BA
36	4	3			7	1 BR - 1 BA	1 BR - 1 BA	1 BR - 1 BA	2 BR - 2 BA	2 BR - 2 BA	1 BR - 1 BA	2 BR - 2 BA
37	4	3			7	1 BR - 1 BA	1 BR - 1 BA	1 BR - 1 BA	2 BR - 2 BA	2 BR - 2 BA	1 BR - 1 BA	2 BR - 2 BA
38	4	3			7	1 BR - 1 BA	1 BR - 1 BA	1 BR - 1 BA	2 BR - 2 BA	2 BR - 2 BA	1 BR - 1 BA	2 BR - 2 BA
39	4	3			7	1 BR - 1 BA	1 BR - 1 BA	1 BR - 1 BA	2 BR - 2 BA	2 BR - 2 BA	1 BR - 1 BA	2 BR - 2 BA
40	2	4			6	2BR - 2BA	1 BR - 1 BA		2 BR - 2 BA	2 BR - 2 BA	1 BR - 1 BA	2 BR - 2 BA
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49 MECH												
50 WIND												
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55	4	2			6	1 BR - 1 BA	1 BR - 1 BA	2BR - 2BA		1 BR - 1 BA	1 BR - 1 BA	2 BR - 2 BA
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62		4			4	2BR - 2BA	2BR - 2BA		2 BR - 2 BA	2 BR - 2 BA		
63		4			4	2BR - 2BA	2BR - 2BA		2 BR - 2 BA	2 BR - 2 BA		
64		4			4	2BR - 2BA	2BR - 2BA		2 BR - 2 BA	2 BR - 2 BA		
65 WIND												
66		1	2		3	2BR - 2BA	3BR - 3BA	3BR - 3BA				
67		1	2		3	2BR - 2BA	3BR - 3BA	3BR - 3BA				
68		1	2		3	2BR - 2BA	3BR - 3BA	3BR - 3BA				
69		1	2		3	2BR - 2BA	3BR - 3BA	3BR - 3BA				
70				2	2	PH	PH					
71				1	1	PH						
72 MECH												
73 MECH												
74 MECH												
ROOF												
TOTAL	94	119	8	3	224							

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
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NEW YORK, NY 10007
tel 212.233.6344

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9 DEKALB AVE
NEW YORK, NY 11201

SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
03/05/16	100% SD REASSESSMENT
05/05/15	DOB FILING SET
3/13/15	100% SCHEMATIC DESIGN

NO.	DATE	REVISION

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DRAWING TITLE

UNIT COUNTS

SEAL & SIGNATURE

REGISTERED ARCHITECT JESSICA A. PASQUARELLI 026202 STATE OF NEW YORK

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PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	G-003.00

DEPT OF BLDGS 320914338 Job Number
E3340870571 Scan Code

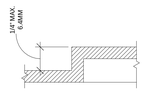
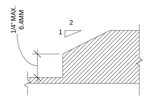
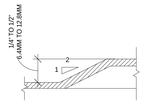


FIG.303.2
CARPET ON FLOOR SURFACES



(a)



(b)

FIG.303.3
BEVELED CHANGES IN LEVEL

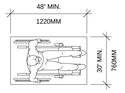
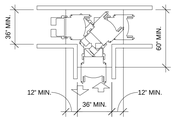


FIG.305.3
SIZE OF CLEAR FLOOR SPACE

(a) CIRCULAR



(b) T-SHAPE

FIG.304.3
SIZE OF TURNING SPACE

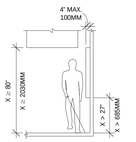
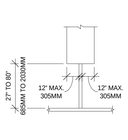
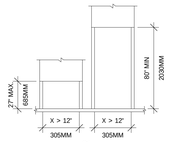


FIG.307.2
LIMIT OF PROTRUDING OBJECTS



(a)



(b)

FIG.307.3
LIMIT OF PROTRUDING OBJECTS

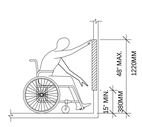
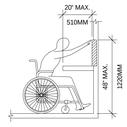
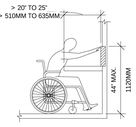


FIG.308.2.1
UNOBSTRUCTED FORWARD REACH



(a)



(b)

FIG.308.2.2
OBSTRUCTED FORWARD REACH

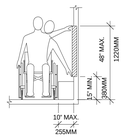
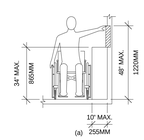
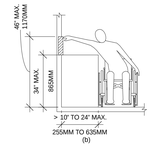


FIG.308.3.1
UNOBSTRUCTED SIDE REACH



(a)



(b)

FIG.308.3.2
OBSTRUCTED SIDE REACH

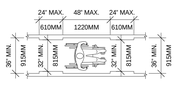
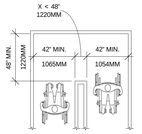
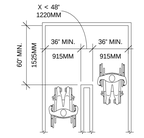


FIG.403.5
CLEAR WIDTH OF AN ACCESSIBLE ROUTE

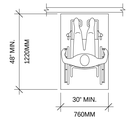


(a) 180 DEGREE TURN

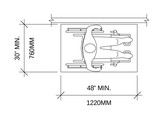


(b) 180 DEGREE TURN (EXCEPTION)

FIG.403.5.1
CLEAR WIDTH OF AN ACCESSIBLE ROUTE

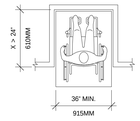


(a) FORWARD

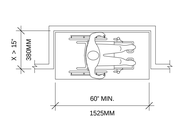


(b) PARALLEL

FIG.305.5
POSITION OF CLEAR FLOOR SPACE

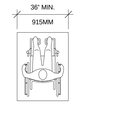


(a) FORWARD APPROACH

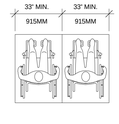


(b) PARALLEL APPROACH

FIG.305.7
MANEUVERING CLEARANCE IN AN ALCOVE

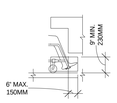


(a) SINGLE SPACE

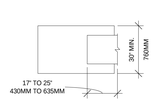


(b) TWO SPACES

FIG.802.3
WIDTH OF A WHEELCHAIR SPACE IN ASSEMBLY AREAS

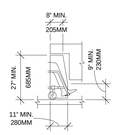


(a) ELEVATION

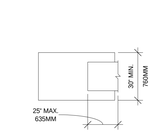


(b) PLAN

FIG.306.2
TOE CLEARANCE



(a) ELEVATION



(b) PLAN

FIG.306.2
KNEE CLEARANCE

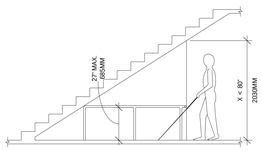
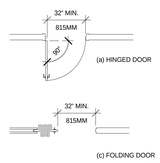
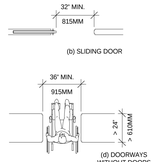


FIG.307.4
REDUCED VERTICAL CLEARANCE



(a) HINGED DOOR

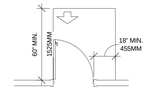


(b) SLIDING DOOR

(c) FOLDING DOOR

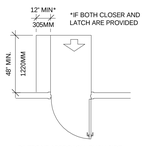
(d) DOORWAYS WITHOUT DOORS

FIG.404.2.2
CLEAR WIDTH OF DOORWAYS

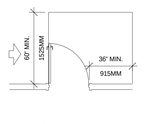


(a) FRONT APPROACH, PULL SIDE

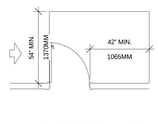
FIG.404.2.3.2
MANEUVERING CLEARANCE AT MANUAL SWINGING DOOR



(b) FRONT APPROACH, PUSH SIDE

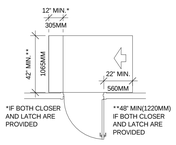


(c) HINGE APPROACH, PULL SIDE

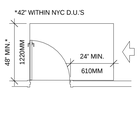


(d) HINGE APPROACH, PULL SIDE

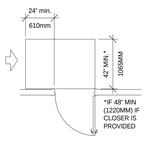
FIG.404.2.3.2
MANEUVERING CLEARANCE AT MANUAL SWINGING DOOR



(e) HINGE APPROACH, PUSH SIDE

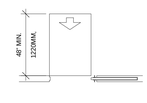


(f) LATCH APPROACH, PULL SIDE

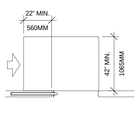


(g) LATCH APPROACH, PUSH SIDE

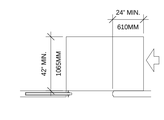
FIG.404.2.3.2
MANEUVERING CLEARANCE AT MANUAL SWINGING DOOR



(a) FRONT APPROACH

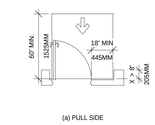


(b) POCKET AND HINGE APPROACH

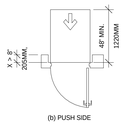


(c) STOP OR LATCH APPROACH

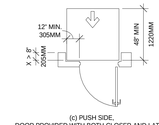
FIG.404.2.3.3
MANEUVERING CLEARANCE AT SLIDING AND FOLDING DOORS



(a) PULL SIDE

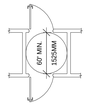


(b) PUSH SIDE

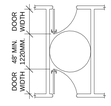


(c) PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH

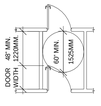
FIG.404.2.3.5
MANEUVERING CLEARANCE AT RECESSED DOOR



(a)

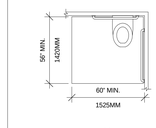


(b)

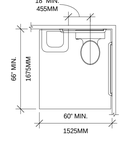


(c)

FIG.404.2.5
TWO DOORS IN A SERIES

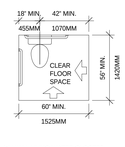


(a)

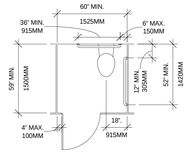


(b)

FIG.604.3
SIZE OF CLEARANCE FOR WATER CLOSET

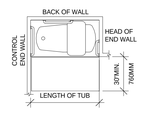


(a) WALL HUNG WATER CLOSETS

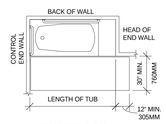


(b) FLOOR MOUNTED WATER CLOSET - WALL HUNG

FIG.604.9.2
WHEELCHAIR ACCESSIBLE COMPARTMENTS

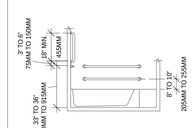


(a) WITHOUT PERMANENT SEAT

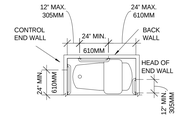


(b) WITH PERMANENT SEAT

FIG.607.2
CLEARANCE FOR BATHTUBS

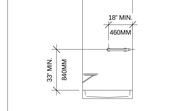


(a) ELEVATION

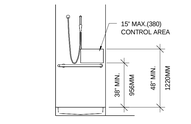


(b) PLAN

FIG.607.4.1
GRAB BARS FOR BATHTUBS WITH PERMANENT SEATS



(a) ELEVATION



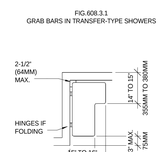
(b) PLAN

FIG.607.4.2
GRAB BARS FOR BATHTUBS WITHOUT PERMANENT SEATS

(a) END WALL (ELEVATION)

(b) BACK WALL (ELEVATION)

FIG.608.4.3
ALTERNATE ROLL-IN TYPE SHOWER CONTROL AND HAND SHOWER LOCATION



(b) ELEVATION

FIG.602.5
DRINKING FOUNTAIN SPOUT LOCATION

FIG.604.5.1
SIDE WALL GRAB BAR FOR WATER CLOSET

FIG.604.5.2
REAR WALL GRAB BAR FOR WATER CLOSET

FIG.607.5
LOCATION OF BATHTUB CONTROLS

FIG.608.3.1
GRAB BARS IN TRANSFER-TYPE SHOWERS

FIG.610.3.2
L SHAPE SHOWER COMPARTMENT SEAT

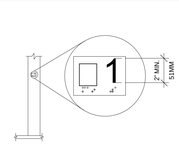


FIG.407.2.3.1
FLOOR DESIGNATION

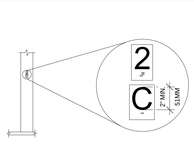
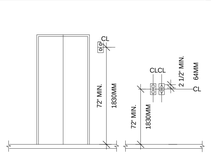
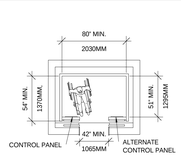


FIG.407.2.3.2
DESIGNATION-ORIENTED ELEVATOR CAR IDENTIFICATION



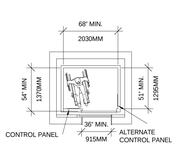
(a) HEIGHT OF SIGNALS (b) SIZE OF SIGNALS

FIG.407.2.1.1
HEIGHT OF ELEVATOR CALL BUTTONS

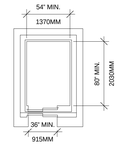


(a) CENTERED DOOR LOCATION

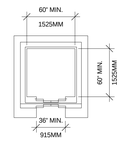
FIG.407.4.1
INSIDE DIMENSIONS OF ELEVATOR CARS



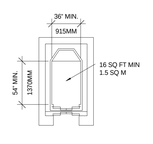
(b) SIDE (OFF CENTERED DOOR) LOCATION



(c) ANY DOOR LOCATION

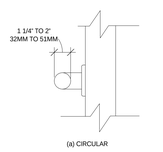


(d) ANY DOOR LOCATION

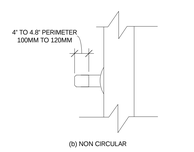


(e) EXCEPTION EXISTING ELEVATOR CAR CONFIGURATION

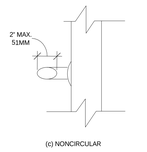
FIG.407.4.1
INSIDE DIMENSIONS OF ELEVATOR CARS



(a) CIRCULAR



(b) NON CIRCULAR



(c) NONCIRCULAR

FIG.609.2
KNEE CLEARANCE

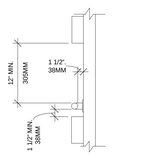


FIG.609.3
SPACING OF GRAB BARS

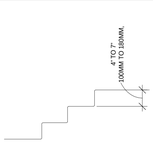


FIG.504.2
TREADS AND RISER FOR ACCESSIBLE STAIRWAYS

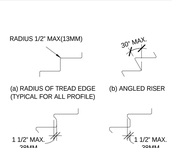
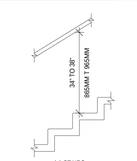
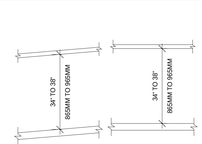


FIG.504.5
STAIRS NOSING



(a) STAIRS



(b) RAMPS (c) WALKING SURFACES

FIG.505.4
HANDRAIL HEIGHT

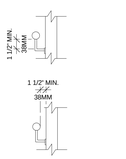
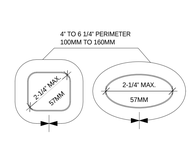
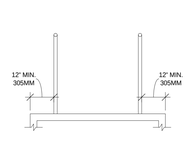


FIG.505.5
HANDRAIL CLEARANCE



(a) (b)

FIG.505.9.1
EXTENDED FLOOR SURFACE



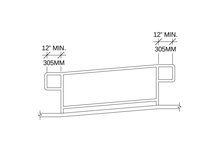
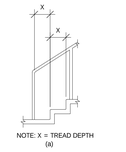
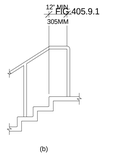


FIG.505.10.1
TOP AND BOTTOM HANDRAIL EXTENSIONS AT RAMPS



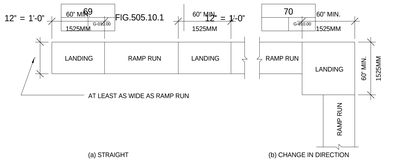
NOTE: X = TREAD DEPTH

(a)



(b)

FIG.505.10.3
BOTTOM HANDRAIL EXTENSION AT STAIRS



(a) STRAIGHT (b) CHANGE IN DIRECTION

FIG.17
EDGE PROTECTION AND HANDRAIL EXTENSIONS

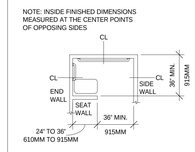


FIG.608.2.3
ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE

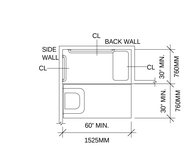
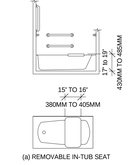
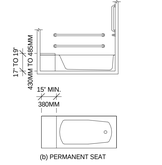


FIG.608.2.2
STANDARD ROLL-IN TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE



(a) REMOVABLE IN-TUB SEAT



(b) PERMANENT SEAT

FIG.610.2
BATHTUB SEATS

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JDS DEVELOPMENT GROUP
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tel 914.495.4290

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METROPOLIS GROUP, INC.
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NEW YORK, NY 10007
tel 212.233.6344

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9 DEKALB AVE
NEW YORK, NY 11201

SITE DIAGRAM

07/15/16	DOB FILING SET
03/05/16	100% SD REASSESSMENT
09/05/15	DOB FILING SET
3/13/15	100% SCHEMATIC DESIGN

DATE	ISSUE	NO.	DATE	REVISION

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ACCESSIBILITY DIAGRAMS

SEAL & SIGNATURE

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1107.2.3
TYPE B+NYC UNIT KITCHEN AND KITCHENETTE

WHERE KITCHENS AND KITCHENETTES ARE PROVIDED IN THE TYPE B+NYC DWELLING UNIT OR SLEEPING UNIT, THE PRIMARY KITCHEN REQUIREMENTS OF SECTION 1003.12(KITCHEN) OF ICC A117.1 AND SECTIONS 28.2-1107.2.3.1 THROUGH 28.2-1107.2.3.5 OF THIS CODE. SECONDARY UNIT SHALL BE REQUIRED TO COMPLY ONLY WITH SECTION 1004.12 (KITCHENS) OF ICC A117.1

1003.12.5.2
PARALLEL APPROACH KITCHEN

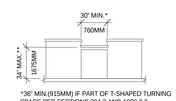
A CLEAR FLOOR SPACE, POSITIONED FOR A PARALLEL OR FORWARD APPROACH, SHALL BE PROVIDED AT EACH KITCHEN APPLIANCE

1107.2.3.5
KITCHEN AND KITCHENETTE STORAGE

WHERE THE STORAGE SHELF OR CABINET IS NOT PROVIDED IN ACCORDANCE WITH THIS SECTION, THE OWNER SHALL INSTALL SUCH STORAGE SHELF OR CABINET IN COMPLIANCE WITH THIS SECTION AT THE TIME A PERSON WITH PHYSICAL DISABILITIES TAKES OCCUPANCY OF THE UNIT, OR WITHIN 10 DAYS OF THE DATE THE REQUEST IS MADE BY A PERSON WITH PHYSICAL DISABILITIES , WHICH EVER IS LATER, AT THE OWNER'S EXPENSE

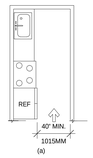
*36" MIN.(915MM) IF PART OF T-SHAPED TURNING SPACE PER SECTIONS 304.3.2 AND 1003.3.2

FIG.1003.12.4
KITCHEN SINK FOR TYPE A UNITS

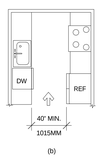


*36" MIN.(915MM) IF PART OF T-SHAPED TURNING SPACE PER SECTIONS 304.2 AND 1003.3.2
** ADJUSTABLE / REPLACEABLE

FIG.1003.12.3
U-SHAPED KITCHEN CLEARANCE



(a)



(b)

FIG.1003.12.1.1
MINIMUM KITCHEN CLEARANCE IN TYPE A UNITS

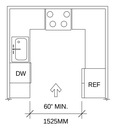
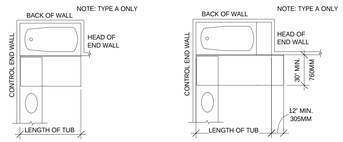
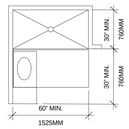


FIG.1003.12.1.2
U-SHAPED KITCHEN CLEARANCE IN TYPE A UNIT



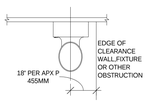
(a) WITHOUT PERMANENT SEAT (b) WITH PERMANENT SEAT

FIG.1003.11.2.5.1
CLEARANCE FOR BATHTUBS

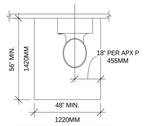


NOTE: LAVATORY PERMITTED PER SECTION 608.2.2

FIG.1003.11.2.5.2
STANDARD ROLL-IN-TYPE SHOWER COMPARTMENT IN TYPE A UNITS

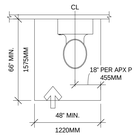


(a) WATER CLOSET LOCATION

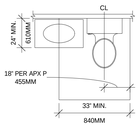


(b) CLEARANCE WIDTH AND DEPTH

FIG.1004.11.3.1.2
CLEARANCE AT WATER CLOSETS



(c) INCREASED CLEARANCE DEPTH-FORWARD APPROACH



(d) CLEARANCE WITHOUT LAVATORY OVERLAP

FIG.1004.11.3.1.2
CLEARANCE AT WATER CLOSETS

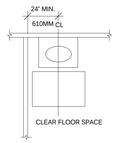


FIG.1004.11.3.1.1
LAVATORY IN TYPE B UNITS

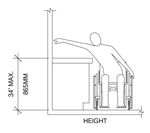


FIG.1004.11.3.2.1
LAVATORY - OPTION B BATHROOMS

P102.6
LAVATORY

CABINETRY SHALL BE PERMITTED UNDER THE LAVATORY, PROVIDED:
1. SUCH CABINETRY CAN BE REMOVED WITHOUT REMOVAL OR REPLACEMENT OF THE LAVATORY; AND
2. THE FINISH FLOOR EXTENDS UNDER SUCH CABINETRY; AND
3. THE WALLS BEHIND AND SURROUNDING CABINETRY ARE FINISHED

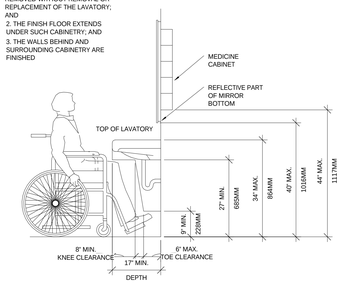


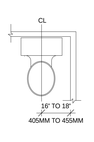
FIG.606.3
HEIGHT OF LAVATORIES AND SINK

(a) TOP LOADING (b) FRONT LOADING

FIG.611.2
CLEAR FLOOR SPACE

(a) TOP LOADING (b) FRONT LOADING

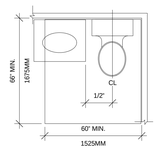
FIG.611.4
HEIGHT OF LAUNDRY EQUIPMENT



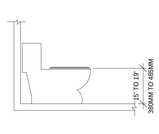
(a) WATER CLOSET LOCATION

(b) MINIMUM CLEARANCE

FIG.1003.11.2.4
WATER CLOSETS IN TYPE A UNITS



(c) CLEARANCE WITH LAVATORY (OVERLAP EXCEPTION)



(d) WATER CLOSET SEAT HEIGHT

FIG.1003.11.2.4
WATER CLOSETS IN TYPE A UNITS

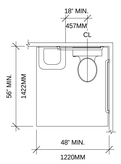


FIG.P102.8.2.1
PARALLEL APPROACH

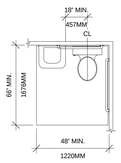
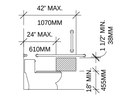


FIG.P102.8.2.2
FORWARD APPROACH

FIG.P102.8.2.3
PARALLEL AND FORWARD APPROACH

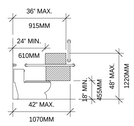


(a) PROTRUDING DISPENSER BELOW GRAB BAR

FIG.P102.8.6
DISPENSERS

(b) PROTRUDING DISPENSER ABOVE GRAB BAR

FIG.P102.8.6
DISPENSERS



(c) RECESSED DISPENSER

FIG.P102.8.6
DISPENSERS

ACCESSIBILITY NOTES FOR DWELLING UNITS

ALL BATHROOMS MUST COMPLY WITH NYC BC APX.P, UNLESS AT LEAST 1 BATHROOM COMPLIES WITH ANSI TYPE A REQUIREMENTS & INCLUDES TURNING SPACE PER ANSI 1003.3.2

P102.8.3
GRAB BARS

GRAB BARS ARE NOT REQUIRED TO BE INSTALLED WHERE REINFORCEMENT FOR SUCH GRAB BARS IS INSTALLED AND LOCATED TO PERMIT FUTURE INSTALLATION OF GRAB BARS COMPLYING WITH SECTION P 102.8.3

P102.8.3.1
GRAB BARS

A VERTICAL GRAB BAR 18 INCHES (457MM) MINIMUM IN LENGTH SHALL BE MOUNTED WITH THE BOTTOM OF THE BAR LOCATED BTWEEN 39 INCHES (991MM) AND 41 INCHES (1041MM) ABOVE THE FLOOR, AND WITH THE CENTER OF THE BAR LOCATED AT 30 INCHES (762MM) FROM THE REAR WALL.

EXCEPTION:
WHERE A SIDE WALL IS NOT AVAILABLE FOR A 24-INCH(1067MM) GRAB BAR, THE SIDEWALL GRAB BAR SHALL BE PERMITTED TO BE 24 INCHES (610MM) MINIMUM IN LENGTH, LOCATED 12 INCHES (305MM) MAXIMUM FROM THE REAR WALL.

P102.9.2.1
GRAB BARS AND SEATS

GRAB BARS AND SEATS ARE NOT REQUIRED TO BE INSTALLED WHERE REINFORCEMENT FOR SUCH GRAB BARS AND SEATS IS INSTALLED AND LOCATED TO PERMIT FUTURE INSTALLATION OF GRAB BARS AND SEATS COMPLYING WITH SECTION 28.2-P102.9.2.1.

P102.9.2
SHOWER

1. FOR SHOWERS OTHER THAN TRANSFER-TYPE SHOWERS, COUNTER TOPS AND CABINETRY SHALL BE PERMITTED AT THE CONTROL END OF THE CLEARANCE, PROVIDED SUCH COUNTER TOPS AND CABINETRY CAN BE REMOVED AND THE FLOOR FINISH EXTENDS UNDER SUCH CABINETRY

2. WHERE A HAND SHOWER IN COMPLIANCE WITH SECTION 608.5 OF ICC A108.1 IS NOT PROVIDED PURSUANT TO THE EXCEPTION IN SUCH SECTION, THE OWNER SHALL PROVIDE SUCH A HAND SHOWER AT THE TIME A PERSON WITH PHYSICAL DISABILITIES TAKES OCCUPANCY OF THE UNIT, OR WITHIN 10 DAYS OF THE DATE THE REQUEST IS MADE BY A PERSON WITH PHYSICAL DISABILITIES, WHICHEVER IS LATER, AT THE OWNERS EXPENSE

P102.9.1
BATHTUB

BATHTUB SEATS SHALL NOT BE REQUIRED. WHERE A HAND SHOWER IN COMPLIANCE WITH SECTION 607.6 OF ICC A117.1 IS NOT PROVIDED, THE OWNER SHALL PROVIDE SUCH A HAND SHOWER AT THE TIME A PERSON WITH PHYSICAL DISABILITIES TAKES OCCUPANCY OF THE UNIT, OR WITHIN 10 DAYS OF THE DATE THE REQUEST IS MADE BY A PERSON WITH PHYSICAL DISABILITIES, WHICHEVER IS LATER, AT THE OWNER'S EXPENSE

1107.2.8
LAUNDRY EQUIPMENT

AT THE OPTION OF THE OWNER, LAUNDRY EQUIPMENT CONFORMING TO THIS SECTION WITHIN THE DWELLING UNIT OR SLEEPING UNIT MAY BE PROVIDED AT THE TIME A PERSON WITH PHYSICAL DISABILITIES TAKES OCCUPANCY OF THE UNIT, OR WITHIN 10 DAYS OF THE DATE THE REQUEST IS MADE BY A PERSON WITH PHYSICAL DISABILITIES, WHICHEVER IS LATER, AT THE OWNER'S EXPENSE. HOWEVER, THE OWNER SHALL NOT BE RESPONSIBLE TO PROVIDE A PARTICULAR MODEL OR TYPE OF EQUIPMENT PROVIDED SUCH EQUIPMENT COMPLIES WITH THIS SECTION

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS, BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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440 PARK AVE SOUTH 7TH FLOOR
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VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
59 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6560

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237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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HACKENSACK, NJ 07601
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560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7800

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360 PARK AVENUE SOUTH, 15TH FLOOR
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tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

TRACE POOL DESIGN

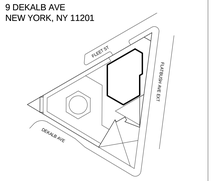
POOL
TRACE POOL DESIGN
320 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16	DOB FILING SET		
02/05/16	100% SD REASSESSMENT		
05/05/15	DOB FILING SET		
3/13/15	100% SCHEMATIC DESIGN		
DATE	ISSUE	NO.	DATE REVISION

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DRAWING TITLE

RESIDENTIAL ACCESSIBILITY DIAGRAMS

SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A PASQUARELLI 026292 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	G-011.00

DEPT OF BLDGS 320914338 Job Number

E350071785 Scan Code

FAIR HOUSING ACT (FHA) DESIGN GUIDELINE

Definitions Used in the Guidelines:

Accessible - When used with respect to the public and common use areas of a building containing covered multifamily dwelling units, means that the public or common use areas of the building can be approached, entered, and us ed by individuals with ph ysical disabilities. The phrase "readily accessible to and usable by" is synonymous with accessible. A public or common use area that complies with the appropriate requirements of ANSI A117.1, a comparable standard, or these Guidelines is "accessible" within the meaning of this paragraph.

Accessible route - means a continuous and unobstructed path connecting accessible elements and spaces in a building or within a site that can be negotiated by a person with a severe disability using a wheelchair, and that is al so safe for and usable by people with other disabilities. Interior accessible routes may incl ude corridors, floors, ramps, elevators, and lifts. Exterior accessible routes may include parking access aisles, curb ramps, walks, ramps, and lifts. A route that complies with the appropriate requirements of ANSI A117.1-1998, a comparable standard, or Requirement 1 of these Guidelines is an "accessible route." In the circumstances described in Requirements 1 and 2, "accessible route" may include access via a vehicular route.

Adaptable dwelling units - when used with respect to covered multifamily dwellings, means dwelling units that include the features of adaptable design specified in 24 CFR 100.205(c) (2)-(3).

ANSI A117.1 - 1986 - means the 1986 edition of the American National Standard for buildings and facilities providing accessibility and usability for physically disabled people.

Assistive device - means an aid, tool, or instrument used by a person with disabilities to assist in activities of daily living. Examples of assistive devices include tongs, knob-turners, and oven-rack pusher/pullers.

Bathroom - means a bathroom which includes a water closet (toilet), lavatory (sink), and bathtub or shower. It does not include single-fixture facilities or those with only a water closet and lavatory. It does include a compartmented bathroom. A compartmented bathroom is one in which the fixtures are distributed among interconnected rooms. A compartmented bathroom is considered a single unit and is subject to the Act's requirements for bathrooms.

Building - Means a structure, facility, or portion thereof that contains or serves one or more dwelling units.

Building entrance on an accessible route - Means an accessible entrance to a building that is connected by an accessible route to public transportation stops, to parking or passenger loading zones, or to public streets or sidewalks, if available. A building entrance that complies with ANSI A117.1 -1986 (see Requirement 1 of these Guidelines) or a comparable standard complies with the requirements of this paragraph.

Clear - Means unobstructed.

Common use areas - Means rooms, spaces, or elements inside or outside of a building that are made available for the use of residents of a building or the guests thereof. These areas include hallways, lounges, lobbies, laundry rooms, refuse rooms, mail rooms, recreational areas, and passageways among and between buildings. See Requirement 2 of these Guidelines.

Covered multifamily dwellings - Or covered multifamily dwellings subject to the Fair Housing Amendments means buildings consisting of four or more dwelling units if such buildings have one or more elevators, and ground floor dwelling units in other buildings consisting of four or more dwelling units. Dwelling units within a si ngle structure separated by firewalls do not constitute separate buildings.

Finished grade - Means the ground surface of the site after all construction, levelling, grading, and development has been completed.

First occupancy - Means a building that has never before been used for any purpose. (Definition found in regulations at 24 CFR 100.201)

Ground Floor - Means a floor of a building with a building entrance on an accessible route. A building may have one or more ground floors. Where the first floor containing dwelling units is above grade, all units on that floor must be served by a building entrance on an accessible route. This floor will be considered a ground floor.

Loft - an intermediate level bet. the floor & ceiling of any story, located with a room or rooms of a dwelling.

Multistory dwelling unit - Means a dwelling unit with finished living space located on one floor and the floor or floors immediately above or below it.

Powder room - A room containing a toilet and a sink. (Definition found in Requirement 6 of the Guidelines.)

Public use areas - Means interior or exterior rooms or spaces of a building that are made available to the general public. Public use may be provided at a building that is privately or publicly owned.

Single-story dwelling unit - Means a dwelling unit with all finished living space located on one floor.

Site - Means a parcel of land bounded by a property line or a designated portion of a public right of way.

Slope - means the relative steepness of the land between two points and is calculated as follows: The distance and elevation between the two points (e.g., an entrance and a passenger loading zone) are determined from a topographical map. The difference in elevation is divided by the distance and that fraction is multiplied by 100 to obtain a percentage slope figure. For example, if a principal entrance is ten feet from a passenger loading zone, and the principal entrance is raised one foot higher than the passenger loading zone, then the slope is 1/10 x 100 = 10%.

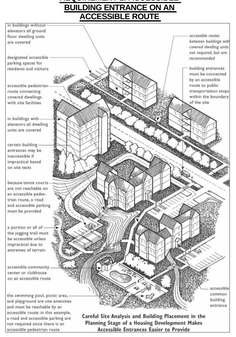
Story - means that portion of a dwelling unit between the upper surface of any floor and the upper surface of the floor next above, or the roof of the unit. Within the context of dwelling units, the terms "story" and "floor" are synonymous.

Undisturbed site - means the site before any construction, levelling, grading, or development associated with the current project.

Vehicular or pedestrian arrival points - means public or resident parking areas, public transportation stops, passenger loading zones, and public streets or sidewalks.

Vehicular route - a route intended for vehicular traffic, such as a street, driveway, or parking lot.

REQUIREMENT 1: ACCESSIBLE BUILDING ENTRANCE ON AN ACCESSIBLE ROUTE



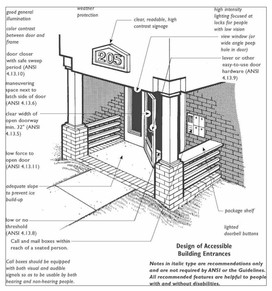
Careful Site Analysis and Building Placement in the Planning Stage of a Housing Development Makes Accessible Entrances Easier to Provide

Accessible routes on a site may include parking spaces, parking access aisles, curb ramps, walks, ramps, and lifts. Accessible routes with in buildings may include corridors, doorways, floors, ramps, elevators, and lifts. Specifications for accessible routes are found in ANSI 4.3. Certain elements of accessible routes which must be given careful attention are ***width of route, slope of route, ground and floor su rfaces, cross slope, headroom, curb ramps, protruding objects, if/elevator design***

Stairs are not an acceptable component of an accessible route because they prevent use by people using wheelchairs and others who cannot climb steps. ANSI specifications for accessible stairs (4.9) make st airs safer and more usable by mobility impaired people who can climb stairs.

When stairs are installed along routes that are required to be accessible, there must be an alternative way to get between levels. If the alternative way is an elevator or lift, the stairs do not need to comply with ANSI 4.9. If the alternative way is a ramp, the stairs must comply with ANSI 4.8. When an accessible route consists of both a ramp and stairs, it is best if they are located in close proximity so people who can use only one of the two (such as the ramp), need not travel an unreasonable additional distance.

Walks that are part of accessible routes become ramps when their slope exceeds 5% (1 in 20). Handrails are not required on walks with slopes between 0% and 5%, but they are required on those steeper than 5% and up to 8.33% (1 in 12). Slopes steeper than 8.33% are not usable by most people with disabilities and cannot be considered part of an accessible route. Handrail requirements for walks differ, depending upon which buildings the walks connect. This is addressed in the following sections.



Call boxes should be equipped with both visual and audible signals so as to be usable by both hearing and non-hearing people.

Design of Accessible Building Entrances

Notes in italic type are recommendations only and are not required by ANSI or the Guidelines. All recommended features are helpful to people with and without disabilities.

REQUIREMENT 2: ACCESSIBLE AND USABLE PUBLIC AND COMMON AREAS

Passenger Loading Zones.
Passenger loading zones must have a large clear pedestrian access aisle connected by an accessible route to accessible building entrances. They also must have sufficient headroom to clear buses or vans with high roofs. See ANSI 4.6 and Notes 2 and 3 below.

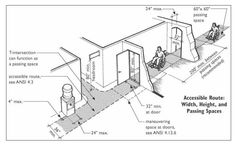
Overhanging Objects.
Roofs, tree limbs, or other elements that overhang passenger loading zones must be kept high enough to clear buses or vans with high roofs. See ANSI 4.6.

Accessible Route.
Accessible routes must connect accessible transportation stops, parking spaces, passenger loading zones, and public streets and sidewalks within the boundaries of the site to accessible entrances. See ANSI 4.3, Note 6, and page 2.15.

Accessible Entrance.
Doors along accessible routes must meet ANSI 4.13. See Requirement 1

Revolving Doors.
Revolving doors Generally cannotmeet the requirements of ANSI 4.13, and, therefore, cannot be the only means of passage at an accessible entrance or on an accessible route.

Accessible Route.
An accessible route must connect accessible building or facility entrances with accessible spaces and elements within the building or facility, including adaptable (or covered) dwelling units. See also ANSI 4.3, Note 3, and page 2.15.



Reception Desk.
Accessible reception desks are not specifically described in ANSI. This common use facility must be accessible to people with disabilities and shou ld comply with the applicable specifications of ANSI 4.1 - 4.31. See also Note 9.

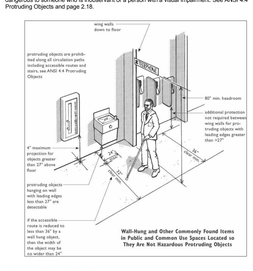
Elevators.
Elevators, if provided, must comply with ANSI 4.10.

Multiple Elements, Features, or Spaces.
Whenever one of a type of element, feature, or space is provided for public or common use of residents, it must be on an accessible route and meet the applicable specifications of ANSI. Whenever multiple features or facilities are provided, sufficient accessible features of each type must be provided to assure equitable opportunity for use by people with disabilities. When ANSI does not contain specifications for the specific facility or feature in question, then related human factors and performance specifications must be us ed to achieve accessibility. Such specifications include, but are not limited to, 4.2 Space Allowances and Reach Ranges, 4.3 Accessible Route, 4.4 Protruding Objects, 4.5 Ground and Floor Surfaces, and 4.25 Controls and Operating Mechanisms.

Raised or Sunken Floor Areas.
Small changes of sunken floor areas within a single space or room not connected by an accessible route may be allowed, provided that any facilities or elements on the raised or lowered area also are provided on the main or accessible floor area in the same room or space. In many building codes raised areas, such as mezzanines, are limited to a maximum of 33-1/3 percent of the floor area of the space in which they are located. This seems to be a reasonable limiting percentage for a cumulative total of the entire inaccessible raised and lowered floor areas. The majority of all facilities or elements must be on the accessible floor area and be served by an accessible route. The raised or sunken area must not prevent an accessible route from serving other accessible areas, facilities, or elements; it must not require people with disabilities to take a circuitous route or travel an inordinate additional distance to reach the accessible space.

Stairs Along Accessible Routes.
A properly designed ramp is considered to be an acceptable part of an accessible route. However, since some users are safer on stairs than on ramps, it is best if stairs are provided in combination with ramps. This is especially true when they are located along an accessible route connecting levels not connected by an elevator. Such stairs are required to meet the ANSI requirements since they will be used by people with particular disabilities for whom steps are easier to traverse than ramps. See page 2.17 for further discussion of stairs along accessible routes.

Protruding Objects.
The corridor space in an accessible route and like all accessible routes and maneuvering areas, it must be free of hazardous protruding objects that project from walls and posts and are dangerous to someone who is inobservant or a person with a visual impairment. See ANSI 4.4 Protruding Objects and page 2.16.



Walk-Hung and Other Commonly Found Items in Public and Common Use Spaces Located so They Are Not Hazardous Protruding Objects

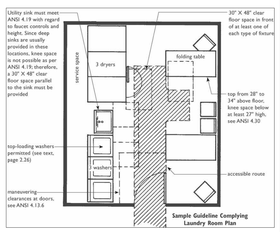
Drinking Fountains and Water Coolers.
Where drinking fountains or water coolers are provided, 50 percent on each floor, or at least one, must be on an accessible route and comply with ANSI 4.15.

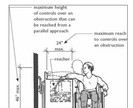
Doors to Covered Units.
Doors to adaptable (or covered) dwelling units must meet ANSI 4.13 on the exterior or public and common use side, but need only meet Guidelines Requirement Three: Usable Doors on the inside. See Chapter 3: "Usable Doors."

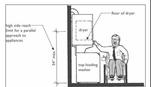
Parking.
Where parking is provided on a multifamily bu ilding site, accessible parking spaces on an accessible
route are required for residents and visitors. To comply with the Guidelines, such spaces must meet the ANSI 4.6 specifications for parking. The accessible parking that serves a particular building should be located on the shortest possible accessible circulation route to an accessible entrance of the building.

Van Parking.
The Guidelines do not require special van parking, but they do require headroom over passenger loading zones for vans. ANSI accessible parking spaces, when located in parking garages, may or may not have sufficient headroom to accommodate vans. Also, the 60-inch access aisle specified in ANSI is not wide enough for vans with side-mounted lifts. For these reasons, it is recommended, where accessible parking is located in garages not having headroom equal to that required by ANSI at loading zones, additional supplemental designated van parking spaces be placed outdoors and furnished with an 8-foot (96 inches) wide access aisle and an accessible route to the garage or other entrances of the building.

Laundry Rooms.
Where laundry rooms are provided for common use of residents, at least one of each type of appliance provided in each laundry area must be accessible, see ANSI 4.32.6. Note, however, frontloading machines are not required. The accessible route into the room must adjoin a clear floor space to permit a person using a wheelchair to make a parallel or forward approach (see page 5.5) to at least one of each type of appliance, i.e., washing machines, dryers, and soap dispensers. If related features are provided in laundry rooms, such as wash sinks, tables, and storage, at least one of each type must be accessible and comply with applicable ANSI specifications. See page 2-26.

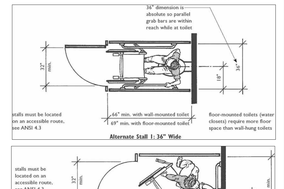


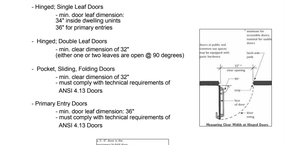




Toilet Rooms, Bathrooms, Bathing Facilities, and Shower Rooms.
Where toilet rooms and bathing facilities are provided for public use or common use of residents, at least one fixture of each type provided must be accessible per room. See page 2.28 and ANSI 4.22. If related features are provided, such as lockers, at least one of each type must be accessible and comply with applicab le ANSI specifications including 4.2 Space Allowances and Reach Ranges, 4.25 Controls and Operating Mechanisms, and 4.23 Storage.

Three Types of Toilet Stalls.
The ANSI Standard allows considerable flexibility in the size and layout of toilet rooms. There are three types of accessible toilet stalls for use by people with different disabilities. The narrow stall is 36 inches wide and varies in length, depending on whether it has a floor mounted or wall-hung toilet fixture. This stall was originally intended for people who walk with difficulty, many of whom use crutches and braces and who need grab bars to steady themselves when sitting down and standing up. Such people generally have good upper body strength, a characteristic not always true of people who use wheelchairs. This 36-inch wide stall, although space efficient, does not work well for many people who use wheelchairs.

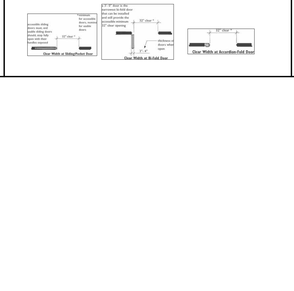




REQUIREMENT 3: USABLE DOORS

Accessible doors
(in public and common use spaces and on public side of dwelling unit entry door)
- must provide 32" minimum clear width
- must meet ANSI 4.13 Doors

Usable doors
(within interior of dwelling unit)
- must provide 32" nominal clear width (see page 3.5)
- have no additional requirements except low or nothreshold, see Chapter Four: "Accessible Route Into and Through the Covered Unit"



Doorway Width and Depth

Types of Doors

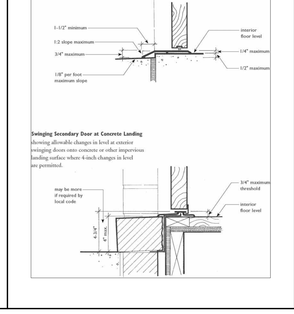
- Hinged; Single Leaf Doors
  - min. door leaf dimension: 34" inside dwelling units 36" for primary entries
- Hinged; Double Leaf Doors
  - min. clear dimension of 32" (either one or two leaves are open @ 90 degrees)
- Pocket, Sliding, Folding Doors
  - min. clear dimension of 32"
  - must comply with technical requirements of ANSI 4.13 Doors
- Primary Entry Doors
  - min. door leaf dimension: 36"
  - must comply with technical requirements of ANSI 4.13 Doors

REQUIREMENT 4: ACCESSIBLE ROUTE THROUGH THE COVERED UNIT

An accessible route must be provided into and throughout the entire covered dwelling unit. The accessible route must pass through the main entry door, continue through all rooms in the unit, adjoin required clear floor spaces at all kitchen appliances and all bathroom fixtures, and connect with all secondary exterior doors.

The accessible route must be **sufficiently wide** and **lacking in abrupt changes in level** so residents with disabilities (and other guests) can maneuver comfortably in all rooms and spaces, including storage areas and, under most circumstances, exterior balconies and patios that may be part of their dwelling unit. See page 4.11 for exception at balconies and patios constructed of impervious materials.

An accessible route is not required into a basement or garage. However, doors from the interior of the dwelling unit to an unfinished basement or a garage attached to a single-story dwelling unit must be "usable"; see "Usable Doors." Providing an accessible route and a usable door in these circumstances will allow a resident to make later modifications, such as installing a ramp from the dwelling unit in to the garage, thereby increasing usability of the unit.



Change in Levels

1/4" max. vertical change of level, or
1/2" max. when using a tapered threshold
* when change of level is more than 1/2", it must be ramped at a slope of 1" in 12" max. (1:12)

Thresholds at Exterior Doors

3/4" max. change of level, beveled with a slope not greater than 1:2

Maximum Allowable Height Difference Between Interior Floor Level and Exterior Floor Level

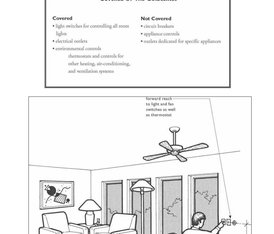
level difference 6"	at primary entry door: pervious construction (e.g., wood decking with spaces)
1/2"	impervious construction (e.g., concrete, brick, or flagstone)
level difference 1/2"	at secondary door: pervious construction
6"	impervious construction

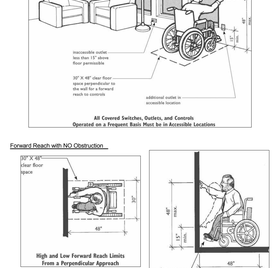
Swinging Primary Entry Door at Concrete Landing
Showing allowable changes in level at primary entry doors with direct exterior access onto concrete or other impervious landing surface where 1/2-inch maximum changes in level are permitted.

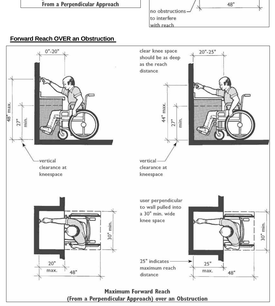
Swinging Secondary Door at Concrete Landing
Showing allowable changes in level at exterior swinging doors onto concrete or other impervious landing surface where 4-inch changes in level are permitted.

REQUIREMENT 5: LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS, AND OTHER ENVIRONMENTAL CONTROLS IN ACCESSIBLE ROUTES

Light switches, electrical outlets, thermostats and other environmental controls, which are operated on a regular or frequent basis in the daily use of a dwelling unit must be in accessible locations. These controls should have a minimum **30" x 48" clear floor space** to allow an approach by a person using a wheelchair.



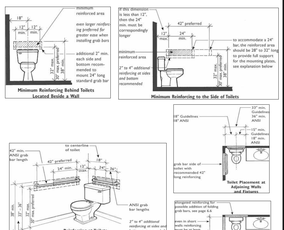




Forward Reach with NO Obstruction

Forward Reach OVER an Obstruction

Side Reach OVER an Obstruction



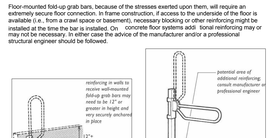
Mounting Locations for Outlets and Recommended Switches.

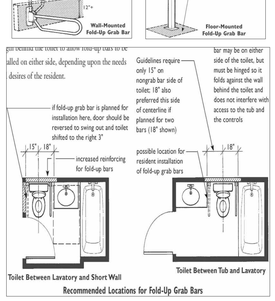
Reference for Type of Grab Bar

Contractors / Builders must refer to the 1987 ANSI A117.1 Standard, or an equivalent or stricter standard or their state or local building code in planning for or selecting appropriate grab bars.

It is recommended that building owners and managers permanently mount directions for installation of grab bars in every dwelling unitwhere applicable. The type of construction should be described, where reinforcing is located, and suggestions made for the most effective method for installing grab bars. These notices could be laminated to the inside of a linen closet door or to the inside of a utility or water heater/furnace door.

It is recommended that reinforcing for all types of grab bars be done strictly as recommended by manufacturers. Information about the exact size and location of reinforcement, and the type and size of bars the reinforcement is engineered to accommodate, should be included in the residents' information suggested above.





Reinforcing for Grab Bars at Toilets

Reinforcing for Folding and Floor Mounted Grab Bars at Toilets

Reinforcing for such folding grab bars must be substantial because of their cantilevered length. For a grab bar to be floor-mounted or be hinged and mounted on the wall behind the toilet, larger areas of reinforcing in walls will be necessary and care must be taken to provide for the types of bars that will not encroach upon the necessary clear floor space at fixtures.

It is recommended that reinforcing for all types of folding grab bars be done strictly as recommended by manufacturers. Information about the exact size and location of reinforcement, and the type and size of bars the reinforcement is engineered to accommodate, should be included in the residents' information suggested above.

Floor-mounted fold-up grab bars, because of the stresses exerted upon them, will require an extremely secure floor connection. In frame construction, if access to the underside of the floor is available (i.e., from a crawl space or basement), necessary blocking or other reinforcing might be installed at the time the bar is installed. On concrete floor systems additional reinforcing may or may not be necessary. In either case the advice of the manufacturer and/or a professional structural engineer should be followed.

Reinforcing for Folding and Floor Mounted Grab Bars at Toilets

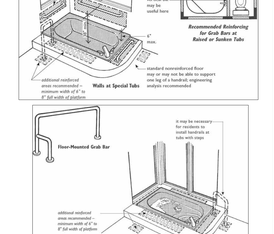
Reinforcing for such folding grab bars must be substantial because of their cantilevered length. For a grab bar to be floor-mounted or be hinged and mounted on the wall behind the toilet, larger areas of reinforcing in walls will be necessary and care must be taken to provide for the types of bars that will not encroach upon the necessary clear floor space at fixtures.

It is recommended that reinforcing for all types of folding grab bars be done strictly as recommended by manufacturers. Information about the exact size and location of reinforcement, and the type and size of bars the reinforcement is engineered to accommodate, should be included in the residents' information suggested above.

Floor-mounted fold-up grab bars, because of the stresses exerted upon them, will require an extremely secure floor connection. In frame construction, if access to the underside of the floor is available (i.e., from a crawl space or basement), necessary blocking or other reinforcing might be installed at the time the bar is installed. On concrete floor systems additional reinforcing may or may not be necessary. In either case the advice of the manufacturer and/or a professional structural engineer should be followed.

Reinforcing for Grab Bars at Toilets

Reinforcing for Grab Bars at Unconventional Bathtubs.

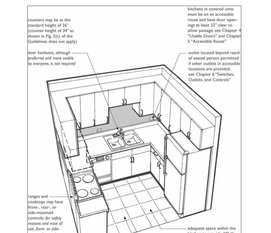

reinforcing for this

DEPT OF BLDGS 320014336 Job Number
E-396041/2004 Scan Code

REQUIREMENT 7a: USABLE KITCHENS

Usable Kitchens

The FHA Guidelines:
1. specify minimum clear floor sp aces at fixtures and appliances,
2. define minimum clearances between counters, and
3. provide additional specifications when a kitchen is planned. Wheelchair turning spaces, described in accessibility standards, are not required in kitchens that meet the Guidelines, except in some U-shaped kitchens.



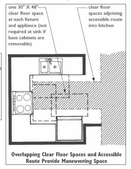
Guideline Specifications for Kitchens

Clear Floor Space at Fixtures and Appliances

A 30-inch x 48-inch clear floor space is required at each kitchen appliance or fixture, and that each of these clear floor spaces adjoin the accessible route that must pass into and through the kitchen. It is anticipated that in an y conventional kitchen plan, the overlapping of the minimum 36-inch wide accessible route with the clear floor spaces at all fixtures and appliances provides the necessary maneuvering space to make it possible for a person using a mobility aid to approach, and then position himself or herself close enough to use the fixture safely.

The clear floor space must be positi oned either parallel or perpendicular to and centered on the appliance or fixture, i.e., the clear floor space must have its centerline aligned with the centerline of the fixture or appliance. This center ed position is most critical at corners where an appliance may have to be pulled away from the cor ner to allow a full centered approach. The two types of approaches and where they are necessary are described on the following illustrations.

Clear Floor Space for Wheelchair Parking at Appliances and Fixtures



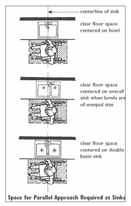
Overlapping Clear Floor Spaces and Accessible Route Provide Maneuvering Space

Clear Floor Space at Ranges, Cooktops, and Sinks

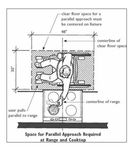
Parallel Approach.

The clear floor space in this parallel orientation allows the wheelchair user to make a close side approach permitting safer and eaier reach to controls and cooking surfaces

The parallel clear floor space at sinks, as at ranges and cooktops, must be centered on the bowl or appliance. At single-bowl sinks the centerline of the clear floor space must align with the centerline of that bowl. Where there are multiple bowl sinks the clear floor space must be centered on the overall sink itself. Faucets usually are placed at the center of or within six inches of the center of the sink, regardless of the number of basins. Since the clear floor space is centered on the sink, users are still afforded access to faucet controls.



Space for Parallel Approach Required at Sinks

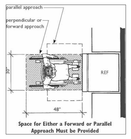


Space for Parallel Approach Required at Range and Cooktop

Parallel Approach to Range Specified in Guidelines

Clear Floor Space at Ovens, Dishwashers, Refrigerators, Freezers, and Trash Compactors

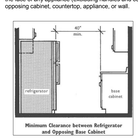
The 30-inch x 48-inch clear floor space oriented in either one of two positions- parallel or perpendicular- is required at the oven, dishwasher, refrigerator, freezer, and trash compactor. Wall mounted and microwave ovens, like ovens in ranges, also must have either a parallel or perpendicular clear floor space adjacent to the appliance.



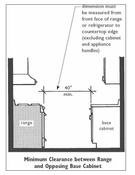
Space for Either a Forward or Parallel Approach Must be Provided

Clear Floor Space at Ranges, Cooktops, and Sinks

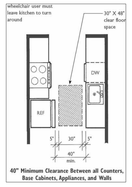
A clearance of at least 40 inches between all opposing base cabinets, countertops, appliances, and walls is required. The 40-inch clearance is measured from any countertop or the face of any appliance (excluding handles and controls) that projects into the kitchen to the opposing cabinet, countertop, appliance, or wall.



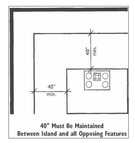
Minimum Clearance between Refrigerator and Opposing Base Cabinet



Minimum Clearance between Range and Opposing Base Cabinet



40" Minimum Clearance Between all Counters, Base Cabinets, Appliances, and Walls



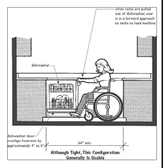
40" Must Be Maintained Between Island and all Opposing Features

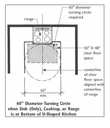
U-Shaped Kitchens

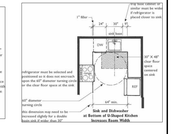
A 60-inch diameter turning circle is required in a U-shaped kitchen that has a sink, range, or cooktop at its base. Any appliances, such as refrigerators and ranges (excluding door handles), that project beyond countertops and cabinets must not encroach upon this 60-inch diameter turning space.

In addition to the turning space, the kitchen must be arranged so there is a 30-inch x 48-inch clear floor space for a parallel approach centered on the sink, range, or cooktop. The centerline of the fixture or appliance must be aligned with the centerline of the clear floor space.

When a sink, even a standard single basin sink, is at the bottom of the U and a dishwashing machine is planned to be included adjacent to the sink, the distance between the legs of the U must be greater than 60 inches to allow for a full centered approach at the sink.



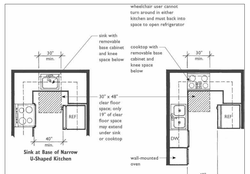




U-Shaped Kitchens EXCEPTIONS

A 60-inch diameter turning circle is NOT requir ed in a U-shaped with a sink or cooktop at the base when:

- removable base cabinets are provided under cooktop or sink
- minimum 40" clearance is provided



Removable Base Cabinets

Specifications for knee space are based on ANSI 4.19 and 4.32, and FHA Guidelines' requirements for Bathrooms.

The Guidelines require that the floor, walls, and cabinet faces of knee space be finished during initial construction so no other work is necessary when the base cabinet is removed. When sinks or cooktops are installed at the bottom of a narrow U-shaped kitchen, regardless of whether the knee space is exposed or concealed by a removable cabinet, hot pipes or exposed sharp edges should be insulated or enclosed at the time of initial construction. Protection methods are addressed in "Knee Space and Pipe Protection."

Possible Removable Cabinet Options for Required Knee Spaces at Sinks or Cooktops in Narrow (Less Than 60" Wide) U-Shaped Kitchens

Use of swinging retractable cabinet door hardware provides another excellent method to conceal knee space because the doors are selfstoring and no part of the cabinet has to be removed or stored at another location. A special combination hinge allows the doors to swing open in a traditional manner and, when desired, allows the doors to be pushed back into the cabinet.

Use of Self-Storing Door Hardware to Expose Base Space

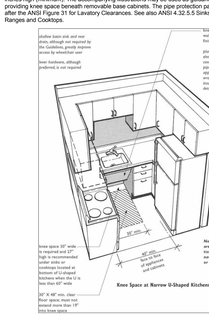
Knee Space and Pipe Protection

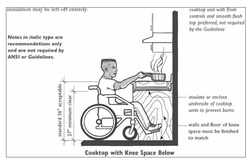
The two most common design standards on accessibility (ANSI A117.1, 1986 and UFAS) require that the bottom of cook tops and sink supply lines and drain pipes be insulated or enclosed. Many people who use wheelchairs or scoot ers have limited sensation in their legs and cannot feel that they are touching a hot pipe or sharp edge and may be unaware that a serious injury has occurred. In addition, the need for protection from burns is an important safety consideration for all persons.

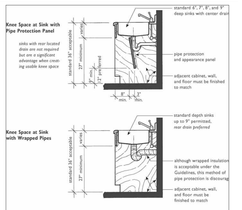
Pipes at sinks may be wrapped with insulation, but each time the plumbing is serviced the insulation must be removed and reinstalled. If the pipes are rewrapped using the original insulation (which may have lost much of its adhesion) the resulting application often is ineffective or the insulation may be left off entirely.

A more aesthetic and practical method for pipe protection is the installation of a removable panel over the plumbing. This panel shields theseated user and hides the plumbing from view. If such a panel is installed it should not inhibit access by encroaching upon the knee space. The panel should be hinged or otherwise removable so the pipes can be serviced easily.

The dimensions for the knee space itself must be 30 inches wide (minimum) and should be 27 inches high (minimum). The accompanying illustrations may be used as guidance when providing knee space beneath removable base cabinets. The pipe protection panel is patterned after the ANSI Figure 31 for Lavatory Clearances. See also ANSI 4.32.5.5 Sinks and 4.32.5.6 Ranges and Cooktops.



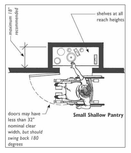


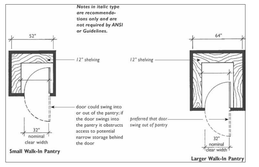


Pantries and Storages

Shallow storage closets or pantries, may have doors that do not provide a 32-inch clear width. However, at walk in storages or pantries, the doorway must provide a 32-inch nominal clear opening. Shelving is recommended that it be provided at a variety of levels.

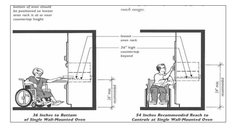
In the small walk-in pantry (below left), if wheelchair users enter the pantry facing the contents, they must back out of the space. In the larger walk-in pantry (below right), if the first shelf is placed at two feet above the floor, a wheelchair user could turn around in the pantry and exit facing out.



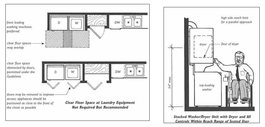


Other Recommendations for Increased Accessibility

At Wall Ovens:



At Laundry Equipment:



REQUIREMENT 7b: USABLE BATHROOMS

In covered multifamily housing, bathrooms must meet the specifications outlined in the Guidelines for usable bathrooms. The Guidelines distinguish between bathrooms and powder rooms and provide different specifications.

Usable bathroom specifications include:
1. An accessible route to and into the bathroom with a nominal 32-inch clear door opening (Requirements 3 and 4),
2. Switches, outlets, and controls in accessible locations (Requirement 5),
3. Reinforced walls to allow for the later installation of grab bars around the toilet, tub, and shower stall; under certain conditions provisions for reinforcing must be made in shower stalls to permit the installation of a wall-hung bench seat (Requirement 6),
4. Maneuvering space within the bathroom to permit a person using a mobility aid to enter the room, close and reopen the door, and exit (Requirement 7), and
5. Maneuvering and clear floor space within the bathroom to permit a person using a mobility aid to approach and use fixtures; fixture dimensio ns and placement are specified only under certain conditions (Requirement 7).

Powder rooms except as noted below, are only subject to the following specifications:
1. They must be on an accessible route with a nominal 32-inch clear door opening (Requirements 3 and 4) and
2. They must have switches, outlets, and controls in accessible locations (Requirement 5).

There is an exception, however, with respect to multistory dwelling units in buildings with one or more elevators. The level served by the building elevator must be the primary entry level for the dwelling unit and there must be either a usable bathroom or a usable power room on the entry level. If there is both a bathroom and a powerder room, then the bathroom would be required to be usable and meet Requirements 3 through 7 of the Guidelines. In cases where only a powder room is provided, then it must meet, in addition to Requirements 3, 4, and 5, the applicable provisions of Requirements 6 (Reinforced Walls) and 7 (Maneuver ing and Clear Floor Spaces) of the Guidelines. The chart below summarizes the requirements for usable bathrooms and usable powder rooms.

Two Bathroom Specifications

To satisfy the maneuvering and clear floor space requirements for usable bathrooms, Requirement 7 of the Guidelines gives two sets of sp ecifications to design bathrooms, referred to in these theirs as Specification A and Specification B. Although not the only difference between the two specifications, a bathroom designed to meet Specification B has greater access to the bathtub than a bathroom designed to meet Specification A. The two specifications and their differences will be described in the following discussions of ma neuvering and clear floor space requirements.

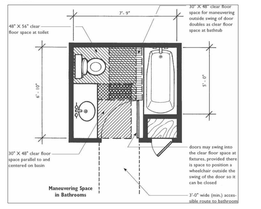
Bathroom Requirements for Covered Dwelling Units	Powder Room Requirements for Covered Dwelling Units
All bathrooms as defined in the Guidelines must:	**Powder rooms must:**
1. be on an accessible route (Requirement 4),	1. be on an accessible route (Requirement 4),
2. have 32-inch nominal clear width door-ways (Requirements 3), and	2. have 32-inch nominal clear width door-ways (Requirements 3), and
3. have switches, outlets, and controls in accessible locations (Requirement 5).	3. have switches, outlets, and controls in accessible locations (Requirement 5).
Specification A	**Exception**
If Specification A is used it applies to all bathrooms, and all fixtures in those bathrooms must be usable.	When the powder room is the only toilet facility on the entry level of a multi-story unit in a building with one or more elevators, it must, in addition to Requirements 3, 4, and 5, **meet the reinforcing specifications of Requirement 6 and the maneuvering and clear floor specifications of Requirement 7.**
Specification B	
If Specification B is used, it applies to one bathroom, and only one of each type of fixture must be usable.additional bathrooms in the unit are exempt **only** from maneuvering and clear floor space requirements at fixtures.	

Manuevering Space / Clear Floor Space

Specific clear floor space requirements have been adapted from the ANSI A117.1-1986 Standard to make bathrooms usable and compliant with FHA Guidelines.

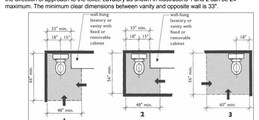
Requirements for Specification A & Specification B bathrooms:

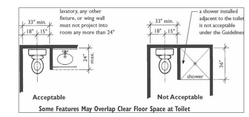
1. A 30"x48" clear floor space outside of the swing of the door as it is closed.
2. Bathroom fixtures must be usable by providing the required clear floor space requirements for each fixture.



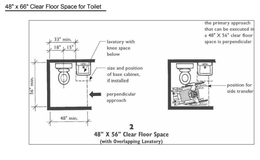
Required Clear Floor Space at Toilet fixtures

One of the three toilet clear floor space illustration must be provided for both Specification A and Specification B bathroom. The arrows pointing in toward the clear floor space are indication the direction of approach to the toilet. Lavatory as shown in illustrations 1 and 2 can be 24" maximum. The minimum clear dimensions between vanity and opposite wall is 33".

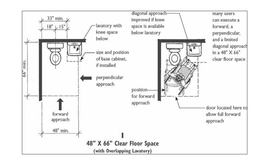




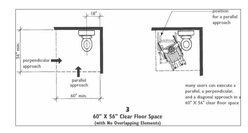
48" x 66" Clear Floor Space for Toilet

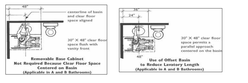


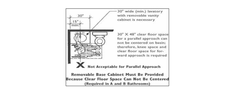
48" x 56" Clear Floor Space for Toilet



60" x 56" Clear Floor Space for Toilet



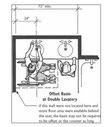


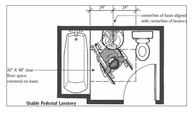


Double Basin and Pedestal Lavatories

In this illustration, the countertop is 72 inches long and the person using a wheelchair can be parallel and centered on the basin.

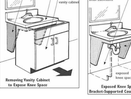
Where two basins are planned for installation in a 60-inch long countertop, and especially where obstructions such as a wall and bathtub (as shown in the illustration) enclose the available maneuvering space, a forward approach with a removable vanity cabinet should be used.

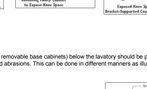




Removable Vanity Cabinets

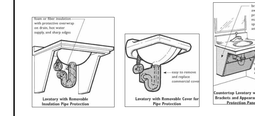
In bathrooms that are small and have limited manuevering space, provision for removable vanity cabinets is required to achieve knee and required clear floor space. When a removable vanity cabinet is installed, the countertop and lavatory can be supported by wall-mounted brackets that fit inside the cabinet. These brackets are hidden when the base cabinet is in place; once the cabinet is removed, the brackets are exposed.





Pipe Protection at Knee Space

Exposed plumbing (due to removable base cabinets) below the lavatory should be protected and covered to prevent burns and abrasions. This can be done in different manners as illustrated below.



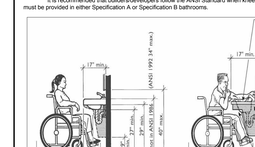
Knee Space Design

If parallel approach is not possible within the space, any cabinets provided would have to be removable to afford the necessary knee clearance for forward approach.

In Specification A bathrooms, knee space must be at least 17 inches deep, but only 19 of the 48 inches of clear floor space required for the perpendicular approach may extend under the lavatory. It is recommended that ANSI A117.1 be followed. The specific requirements given in the Guidelines for knee space is Specification B Bathrooms include: centerline of the fixture at least 15 inches from an adjoining wall or fixture, top of fixture rim a maximum of 34 inches above the floor, apron at least 27 inches above the floor, and knee space at least 17 inches deep.

In both ANSI and the Specification B bathroom requirements, only 19inches of the 30"x48" clear floor space may extend under a lavatory. Seventeen inches is the minimum depth allowed for either a wall-hung or a countertop lavatory.

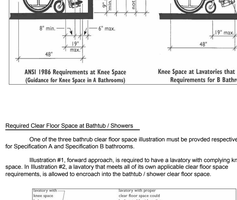
It is recommended that builders/developers follow the ANSI Standard when knee space must be provided in either Specification A or Specification B bathrooms.



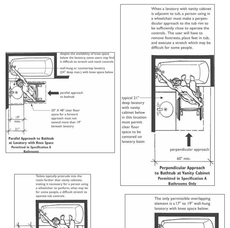
Required Clear Floor Space at Bathtub / Showers

One of the three bathtub clear floor space illustration must be provided respectively for Specifications A and Specification B bathrooms.

Illustration #1, forward approach, is required to have a lavatory with complying knee space. In Illustration #2, a lavatory that meets all of its own applicable clear floor space requirements, is allowed to encroach into the bathtub / shower clear floor space.



Other Illustrations for Bathtub / Shower Clear Floor Space



Required Clear Floor Space at Showers

A 30" x 48" clear floor space must be provided at shower stalls, parallel to fixture and flush with the control wall. In 36" x 36" showers, the clear floor space must be positioned exactly as shown in the below left diagram, with 12 inches offset behind the wall opposite the control wall.

In Specification A bathrooms, where all fixtures must meet the Guidelines, if the room is equipped with both a bathtub and a separate shower, both fixtures must be provided with the required clear floor space. In Specification B bathrooms, only one bathing fixture must be provided with the required clear floor space. All shower stalls must have reinforced walls for later installation of grab bars (see Requirement 6).

Fixtures that May Overlap Clear Floor Space at Showers

No other fixture may overlap the clear floor space at showers, when the shower is only 36" long. However, if the shower is 42" long and a lavatory is mounted on the control wall beside the shower, it may overlap the clear floor space by 6". The portion of the lavatory that overlaps the clear floor space must have knee space below or a removable vanity cabinet. 36" of the stall entrance must always remain clear.

Shower as Only Bathing Fixture

When a stall shower is the only bathing fixture in the covered dwelling unit it must be at least 36" x 36" in size. This also applies to any planned bathrooms on the primary entry level of covered multifamily dwelling units in buildings with one or more elevators.

While reinforced walls for later installation of grab bars are required in all bathrooms, Specification bathrooms do not require reinforcing to support a wallmounted shower seat in the shower stall. However, it is strongly recommended that appropriate reinforcing for shower seats be installed in Specification A bathrooms. See Requirement 6.

In Specification B bathrooms, however, in addition to the reinforcing required for grab bars, the shower stall must have reinforcing to allow for later installation of an optional wall-mounted seat in a shower stall measuring a nominal 36 inches square. By adding this requirement the Guidelines are setting the framework for a shower that could evolve into the ANSI accessible 36" x 36" transfer shower.

Other Recommendations for Increased Accessibility

Toilet Seat Height:

Handles, Faucets, and Controls:

Auxiliary Handles at Doors:

JDS DEVELOPMENT GROUP

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JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

MEP ENGINEER
JAROS, BAUM & BOLLES
30 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 60TH STREET
NEW YORK, NY 10017
tel 212.497.8888

Mueser Rutledge Consulting Engineers

AKRF

GEOTECHNICAL ENGINEER
MRCE
233 WEST 39TH STREET 6TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

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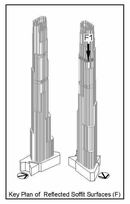
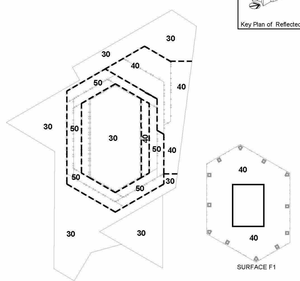
DEPT OF BLDGS 320014336 Job Number
B1600903063 Scan Code

Notes:
The wind loads presented ***do not*** contain load or safety factors. The loads are to be applied to the building's cladding system in the same manner as would wind loads calculated by building code analytical methods.



Key Plan of Reflected Soffit Surfaces (F)



ROOF PLAN

SURFACE F1

0 25 50ft

Recommended Wind Loads for Cladding Design (psf)
Peak Net Positive Pressures
(Positive External Pressure with Negative Internal Pressure Where Applicable)
50-Year Basic Wind Speed = 98 mph, (3-second gust), Importance Factor = 1.0

9 DeKalb Avenue - Brooklyn, NY

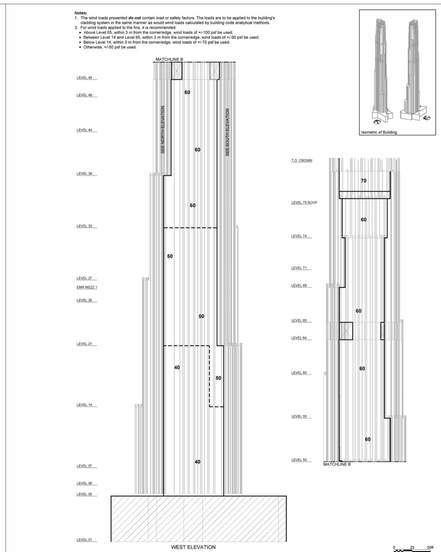
True North

Drawn by:	JMS	Figure:	13
Approx. Scale:	1"=50'		
Date Revised:	May 27, 2016		

Project #1602345

RWDI

Notes:
1. The wind loads presented ***do not*** contain load or safety factors. The loads are to be applied to the building's cladding system in the same manner as would wind loads calculated by building code analytical methods.
2. For wind loads applied to the fins, it is recommended:
   - Above Level 65, within 3 m from the corneredge, wind loads of +/-100 psf be used.
   - Between Level 14 and Level 65, within 3 m from the corneredge, wind loads of +/-90 psf be used.
   - Below Level 14, within 3 m from the corneredge, wind loads of +/-70 psf be used.
   - Otherwise, +/-50 psf be used.



WEST ELEVATION

Isometric of Building

0 25 50ft

Recommended Wind Loads for Cladding Design (psf)
Peak Net Positive Pressures
(Positive External Pressure with Negative Internal Pressure Where Applicable)
50-Year Basic Wind Speed = 98 mph, (3-second gust), Importance Factor = 1.0

9 DeKalb Avenue - Brooklyn, NY

Drawn by:	JMS	Figure:	10
Approx. Scale:	1"=50'		
Date Revised:	May 27, 2016		

Project #1602345

RWDI

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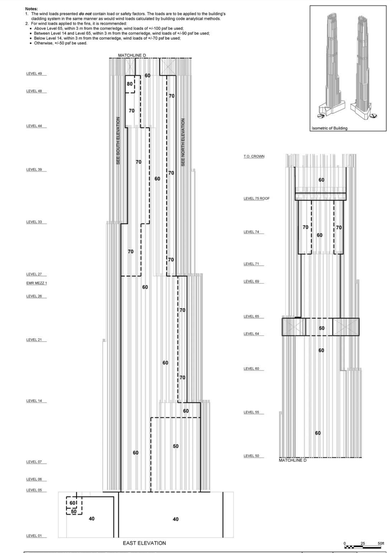

EAST ELEVATION

Isometric of Building

0 25 50ft

Recommended Wind Loads for Cladding Design (psf)
Peak Net Negative Pressures
(Negative External Pressure with Positive Internal Pressure Where Applicable)
50-Year Basic Wind Speed = 98 mph, (3-second gust), Importance Factor = 1.0

9 DeKalb Avenue - Brooklyn, NY

Drawn by:	JMS	Figure:	7
Approx. Scale:	1"=50'		
Date Revised:	May 27, 2016		

Project #1602345

RWDI

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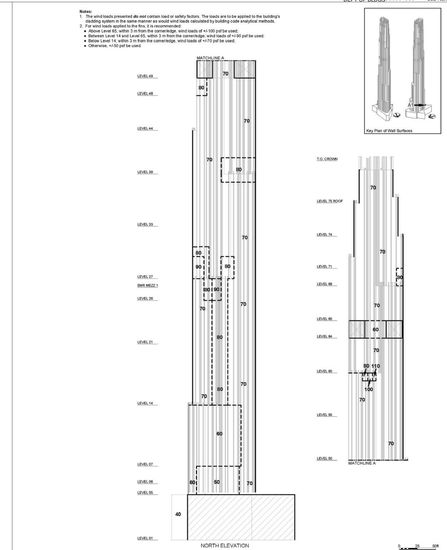

NORTH ELEVATION

Key Plan of Wall Surfaces

0 25 50ft

Recommended Wind Loads for Cladding Design (psf)
Peak Net Positive Pressures
(Positive External Pressure with Negative Internal Pressure Where Applicable)
50-Year Basic Wind Speed = 98 mph, (3-second gust), Importance Factor = 1.0

9 DeKalb Avenue - Brooklyn, NY

Drawn by:	JMS	Figure:	4
Approx. Scale:	1"=50'		
Date Revised:	May 27, 2016		

Project #1602345

RWDI

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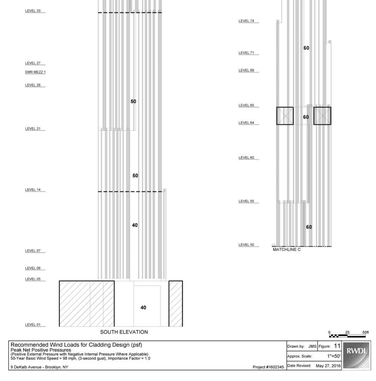

EAST ELEVATION

Isometric of Building

0 25 50ft

Recommended Wind Loads for Cladding Design (psf)
Peak Net Positive Pressures
(Positive External Pressure with Negative Internal Pressure Where Applicable)
50-Year Basic Wind Speed = 98 mph, (3-second gust), Importance Factor = 1.0

9 DeKalb Avenue - Brooklyn, NY

Drawn by:	JMS	Figure:	11
Approx. Scale:	1"=50'		
Date Revised:	May 27, 2016		

Project #1602345

RWDI

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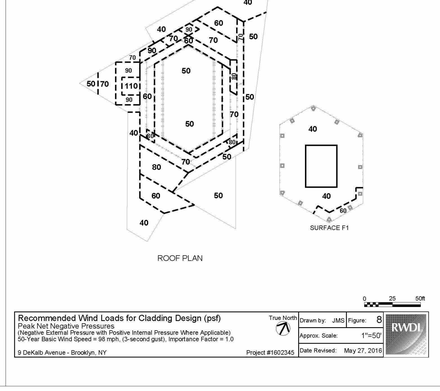

NORTH ELEVATION

Key Plan of Wall Surfaces

0 25 50ft

Recommended Wind Loads for Cladding Design (psf)
Peak Net Positive Pressures
(Positive External Pressure with Negative Internal Pressure Where Applicable)
50-Year Basic Wind Speed = 98 mph, (3-second gust), Importance Factor = 1.0

9 DeKalb Avenue - Brooklyn, NY

Drawn by:	JMS	Figure:	9
Approx. Scale:	1"=50'		
Date Revised:	May 27, 2016		

Project #1602345

RWDI

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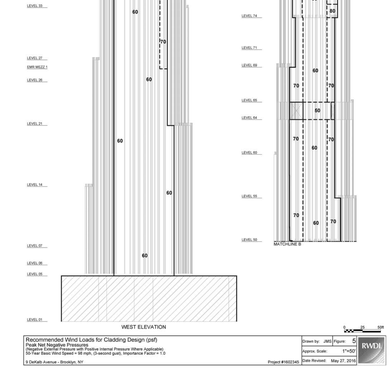


SOUTH ELEVATION

Isometric of Building

0 25 50ft

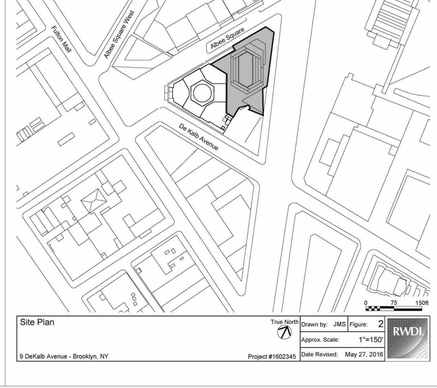
Recommended Wind Loads for Cladding Design (psf)
Peak Net Negative Pressures
(Negative External Pressure with Positive Internal Pressure Where Applicable)
50-Year Basic Wind Speed = 98 mph, (3-second gust), Importance Factor = 1.0

9 DeKalb Avenue - Brooklyn, NY

Drawn by:	JMS	Figure:	5
Approx. Scale:	1"=50'		
Date Revised:	May 27, 2016		

Project #1602345

RWDI



1) 2014 Building Code, City of New York
2) ASCE 7-10, American Society of Civil Engineers, Minimum Design Loads for Buildings and Other Structures, 2010
3) ASCE 7-10, American Society of Civil Engineers, Minimum Design Loads for Buildings and Other Structures, Commentary C.: Serviceability Considerations, 2010

Note: Wind Speeds shown are 3-second Gust Wind Speeds (mph) at 33 ft height in Open Terrain

Directional Distribution of Local Wind Speeds

9 DeKalb Avenue – Brooklyn, NY

Project #1602345

Figure No. 3

Date: May 27, 2016

RWDI

Notes:
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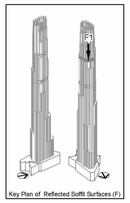
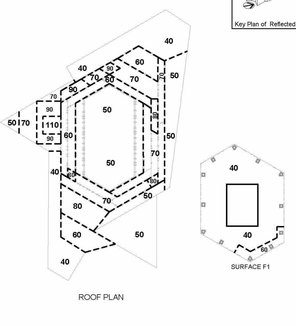


Key Plan of Reflected Soffit Surfaces (F)



ROOF PLAN

SURFACE F1

0 25 50ft

Recommended Wind Loads for Cladding Design (psf)
Peak Net Positive Pressures
(Negative External Pressure with Positive Internal Pressure Where Applicable)
50-Year Basic Wind Speed = 98 mph, (3-second gust), Importance Factor = 1.0

9 DeKalb Avenue - Brooklyn, NY

True North

Drawn by:	JMS	Figure:	8
Approx. Scale:	1"=50'		
Date Revised:	May 27, 2016		

Project #1602345

RWDI

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WEST ELEVATION

Isometric of Building

0 25 50ft

Recommended Wind Loads for Cladding Design (psf)
Peak Net Negative Pressures
(Negative External Pressure with Positive Internal Pressure Where Applicable)
50-Year Basic Wind Speed = 98 mph, (3-second gust), Importance Factor = 1.0

9 DeKalb Avenue - Brooklyn, NY

Drawn by:	JMS	Figure:	6
Approx. Scale:	1"=50'		
Date Revised:	May 27, 2016		

Project #1602345

RWDI

Site Plan

9 DeKalb Avenue - Brooklyn, NY

True North

Project #1602345

Drawn by:	JMS	Figure:	2
Approx. Scale:	1"=150'		
Date Revised:	May 27, 2016		

RWDI

0 75 150ft

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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225 WEST 60TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

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MRCE
220 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
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51 MADISON AVE #19
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tel 917.661.7800

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GACHOT
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NEW YORK, NY 10012
tel 646.666.0846

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ENTEK ENGINNERING
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tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.204.2025

TRACE POOL DESIGN

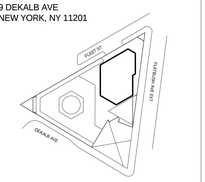
POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16	DOB FILING SET	
07/01/16	FACADE BID PACKAGE	
05/05/15	DOB FILING SET	

DATE ISSUE NO. DATE REVISION

THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH MAY NOT BE USED FOR OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR COMPLETION OF THIS PROJECT BY OTHERS.

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DRAWING TITLE

CLADDING WIND PRESSURE REPORT

SEAL & SIGNATURE

REGISTERED ARCHITECT ROBERT A. PASQUARELLI 029959 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	G-020.00

DEPT OF BLDGS 320914338 Job Number

B1600260000 Scan Code

LIGHT & AIR CALCULATIONS

Level Range	Unit	Name	Area	Req. Light	Area of Light	Req. Air	Area of Air
LEVEL 08 - 14	A	LR / DR / K	271 SF	27 SF	78 SF	14 SF	18 SF
LEVEL 08 - 14	A	M BR	174 SF	17 SF	59 SF	9 SF	18 SF
LEVEL 08 - 14	B	LR / DR / K	367 SF	37 SF	161 SF	18 SF	18 SF
LEVEL 08 - 14	B	M BR	177 SF	18 SF	44 SF	9 SF	18 SF
LEVEL 08 - 14	B	S BR	129 SF	13 SF	40 SF	6 SF	18 SF
LEVEL 08 - 14	C	LR / DR	206 SF	21 SF	76 SF	10 SF	18 SF
LEVEL 08 - 14	D	LR / DR	185 SF	19 SF	52 SF	9 SF	22 SF
LEVEL 08 - 14	E	LR / DR / K	261 SF	26 SF	45 SF	13 SF	18 SF
LEVEL 08 - 14	E	M BR	148 SF	15 SF	52 SF	7 SF	22 SF
LEVEL 08 - 14	F	LR / DR	180 SF	18 SF	52 SF	9 SF	22 SF
LEVEL 08 - 14	G	LR / DR / K	287 SF	29 SF	99 SF	14 SF	37 SF
LEVEL 08 - 14	G	M BR	144 SF	14 SF	60 SF	7 SF	18 SF
LEVEL 08 - 14	H	LR / DR / K	249 SF	25 SF	98 SF	12 SF	18 SF
LEVEL 08 - 14	H	M BR	179 SF	18 SF	59 SF	9 SF	18 SF
LEVEL 08 - 14	H	S BR	121 SF	12 SF	40 SF	6 SF	18 SF
LEVEL 08 - 14	I	LR / DR / K	340 SF	34 SF	118 SF	17 SF	18 SF
LEVEL 08 - 14	I	M BR	125 SF	13 SF	60 SF	6 SF	18 SF
LEVEL 08 - 14	J	LR / DR	191 SF	19 SF	76 SF	10 SF	22 SF
LEVEL 08 - 14	K	LR / DR / K	315 SF	31 SF	48 SF	16 SF	18 SF
LEVEL 08 - 14	K	M BR	134 SF	13 SF	56 SF	7 SF	18 SF
LEVEL 08 - 14	K	S BR	104 SF	10 SF	40 SF	5 SF	22 SF
LEVEL 08 - 14	L	LR / DR / K	218 SF	22 SF	78 SF	11 SF	22 SF
LEVEL 08 - 14	L	M BR	141 SF	14 SF	40 SF	7 SF	18 SF
LEVEL 15 - 21	A	LR / DR / K	281 SF	28 SF	98 SF	14 SF	18 SF
LEVEL 15 - 21	A	M BR	149 SF	15 SF	59 SF	7 SF	18 SF
LEVEL 15 - 21	A	S BR	113 SF	11 SF	48 SF	6 SF	18 SF
LEVEL 15 - 21	B	LR / DR / K	323 SF	32 SF	133 SF	16 SF	18 SF
LEVEL 15 - 21	B	BR	119 SF	12 SF	44 SF	6 SF	18 SF
LEVEL 15 - 21	C	LR / DR / K	273 SF	27 SF	60 SF	14 SF	22 SF
LEVEL 15 - 21	C	BR	141 SF	14 SF	40 SF	7 SF	18 SF
LEVEL 15 - 21	D	LR / DR / K	259 SF	26 SF	52 SF	13 SF	22 SF
LEVEL 15 - 21	D	BR	149 SF	15 SF	28 SF	7 SF	22 SF
LEVEL 15 - 21	E	LR / DR / K	287 SF	29 SF	99 SF	14 SF	18 SF
LEVEL 15 - 21	E	M BR	144 SF	14 SF	60 SF	7 SF	18 SF
LEVEL 15 - 21	F	LR / DR / K	249 SF	25 SF	98 SF	12 SF	18 SF
LEVEL 15 - 21	F	M BR	179 SF	18 SF	59 SF	9 SF	18 SF
LEVEL 15 - 21	F	S BR	121 SF	12 SF	40 SF	6 SF	18 SF
LEVEL 15 - 21	G	LR / DR / K	340 SF	34 SF	118 SF	17 SF	18 SF
LEVEL 15 - 21	G	BR	127 SF	13 SF	60 SF	6 SF	18 SF
LEVEL 15 - 21	H	LR / DR	191 SF	19 SF	76 SF	10 SF	22 SF
LEVEL 15 - 21	I	LR / DR / K	317 SF	32 SF	48 SF	16 SF	18 SF
LEVEL 15 - 21	I	M BR	133 SF	13 SF	56 SF	7 SF	18 SF
LEVEL 15 - 21	I	S BR	104 SF	10 SF	40 SF	5 SF	22 SF
LEVEL 15 - 21	J	LR / DR / K	211 SF	21 SF	78 SF	11 SF	22 SF
LEVEL 15 - 21	J	M BR	107 SF	11 SF	40 SF	5 SF	18 SF
LEVEL 22 - 26	A	LR / DR / K	281 SF	28 SF	98 SF	14 SF	18 SF
LEVEL 22 - 26	A	M BR	147 SF	15 SF	60 SF	7 SF	18 SF
LEVEL 22 - 26	A	BR	113 SF	11 SF	48 SF	6 SF	18 SF
LEVEL 22 - 26	B	LR / DR / K	323 SF	32 SF	133 SF	16 SF	18 SF
LEVEL 22 - 26	B	BR	119 SF	12 SF	44 SF	6 SF	22 SF
LEVEL 22 - 26	C	LR / DR / K	273 SF	27 SF	60 SF	14 SF	22 SF
LEVEL 22 - 26	C	M BR	141 SF	14 SF	40 SF	7 SF	18 SF
LEVEL 22 - 26	F	LR / DR / K	259 SF	26 SF	52 SF	13 SF	22 SF
LEVEL 22 - 26	F	M BR	149 SF	15 SF	52 SF	7 SF	22 SF
LEVEL 22 - 26	G	LR / DR	220 SF	22 SF	99 SF	11 SF	37 SF
LEVEL 22 - 26	H	LR / DR / K	347 SF	35 SF	126 SF	17 SF	18 SF
LEVEL 22 - 26	H	M BR	184 SF	18 SF	60 SF	9 SF	18 SF
LEVEL 22 - 26	H	S BR	137 SF	14 SF	45 SF	7 SF	22 SF
LEVEL 22 - 26	I	LR / DR	243 SF	24 SF	124 SF	12 SF	18 SF
LEVEL 22 - 26	J	LR / DR	191 SF	19 SF	76 SF	10 SF	22 SF
LEVEL 22 - 26	K	LR / DR / K	317 SF	32 SF	56 SF	16 SF	18 SF
LEVEL 22 - 26	K	M BR	133 SF	13 SF	56 SF	7 SF	18 SF
LEVEL 22 - 26	K	BR	104 SF	10 SF	40 SF	5 SF	22 SF
LEVEL 22 - 26	L	LR / DR / K	214 SF	21 SF	78 SF	11 SF	22 SF
LEVEL 22 - 26	L	BR	108 SF	11 SF	40 SF	5 SF	18 SF
LEVEL 28 - 33	A	LR / DR / K	308 SF	31 SF	80 SF	15 SF	22 SF
LEVEL 28 - 33	A	M BR	162 SF	16 SF	40 SF	8 SF	18 SF
LEVEL 28 - 33	B	LR / DR / K	292 SF	29 SF	74 SF	15 SF	18 SF
LEVEL 28 - 33	B	BR	131 SF	13 SF	40 SF	7 SF	18 SF
LEVEL 28 - 33	C	LR / DR / K	363 SF	36 SF	119 SF	18 SF	37 SF
LEVEL 28 - 33	C	BR	172 SF	17 SF	72 SF	9 SF	22 SF
LEVEL 28 - 33	D	LR / DR / K	454 SF	45 SF	140 SF	23 SF	37 SF
LEVEL 28 - 33	D	M BR	199 SF	20 SF	44 SF	10 SF	22 SF
LEVEL 28 - 33	D	S BR	173 SF	17 SF	44 SF	9 SF	22 SF
LEVEL 28 - 33	E	LR / DR / K	328 SF	33 SF	79 SF	16 SF	18 SF
LEVEL 28 - 33	E	BR	205 SF	20 SF	52 SF	10 SF	22 SF
LEVEL 28 - 33	E	S BR	125 SF	13 SF	20 SF	6 SF	18 SF
LEVEL 28 - 33	F	LR / DR / K	313 SF	31 SF	106 SF	16 SF	18 SF
LEVEL 28 - 33	F	M BR	186 SF	19 SF	40 SF	9 SF	18 SF
LEVEL 28 - 33	F	S BR	128 SF	13 SF	45 SF	6 SF	22 SF
LEVEL 28 - 33	G	LR / DR / K	411 SF	41 SF	144 SF	21 SF	37 SF
LEVEL 28 - 33	G	M BR	180 SF	18 SF	52 SF	9 SF	22 SF
LEVEL 28 - 33	G	S BR	117 SF	12 SF	52 SF	6 SF	22 SF
LEVEL 34 - 39	A	LR / DR / K	308 SF	31 SF	80 SF	15 SF	22 SF
LEVEL 34 - 39	A	BR	159 SF	16 SF	40 SF	8 SF	18 SF
LEVEL 34 - 39	B	LR / DR / K	292 SF	29 SF	74 SF	15 SF	18 SF
LEVEL 34 - 39	B	BR	131 SF	13 SF	40 SF	7 SF	18 SF
LEVEL 34 - 39	C	LR / DR / K	363 SF	36 SF	119 SF	18 SF	37 SF
LEVEL 34 - 39	C	BR	172 SF	17 SF	72 SF	9 SF	22 SF
LEVEL 34 - 39	D	LR / DR / K	454 SF	45 SF	140 SF	23 SF	37 SF
LEVEL 34 - 39	D	M BR	199 SF	20 SF	44 SF	10 SF	22 SF
LEVEL 34 - 39	D	S BR	173 SF	17 SF	44 SF	9 SF	18 SF
LEVEL 34 - 39	E	LR / DR / K	290 SF	29 SF	85 SF	14 SF	37 SF
LEVEL 34 - 39	E	M BR	198 SF	20 SF	80 SF	10 SF	22 SF
LEVEL 34 - 39	E	S BR	175 SF	18 SF	48 SF	9 SF	18 SF
LEVEL 34 - 39	F	LR / DR / K	330 SF	33 SF	132 SF	17 SF	18 SF
LEVEL 34 - 39	F	BR	162 SF	16 SF	65 SF	8 SF	18 SF
LEVEL 34 - 39	G	LR / DR / K	415 SF	42 SF	144 SF	21 SF	37 SF
LEVEL 34 - 39	G	M BR	180 SF	18 SF	52 SF	9 SF	22 SF
LEVEL 34 - 39	G	S BR	117 SF	12 SF	52 SF	6 SF	22 SF

LIGHT & AIR CALCULATIONS

Level Range	Unit	Name	Area	Req. Light	Area of Light	Req. Air	Area of Air
LEVEL 40 - 44	A	LR / DR / K	413 SF	41 SF	145 SF	21 SF	22 SF
LEVEL 40 - 44	A	M BR	204 SF	20 SF	40 SF	10 SF	18 SF
LEVEL 40 - 44	A	BR	143 SF	14 SF	52 SF	7 SF	22 SF
LEVEL 40 - 44	C	LR / DR / K	350 SF	35 SF	102 SF	18 SF	18 SF
LEVEL 40 - 44	C	BR	142 SF	14 SF	52 SF	7 SF	22 SF
LEVEL 40 - 44	D	LR / DR / K	406 SF	41 SF	140 SF	20 SF	37 SF
LEVEL 40 - 44	D	M BR	199 SF	20 SF	44 SF	10 SF	22 SF
LEVEL 40 - 44	D	S BR	173 SF	17 SF	44 SF	9 SF	22 SF
LEVEL 40 - 44	E	LR / DR / K	290 SF	29 SF	85 SF	14 SF	37 SF
LEVEL 40 - 44	E	M BR	198 SF	20 SF	80 SF	10 SF	22 SF
LEVEL 40 - 44	E	S BR	175 SF	18 SF	48 SF	9 SF	18 SF
LEVEL 40 - 44	F	LR / DR / K	330 SF	33 SF	132 SF	17 SF	18 SF
LEVEL 40 - 44	F	BR	162 SF	16 SF	65 SF	8 SF	18 SF
LEVEL 40 - 44	G	LR / DR / K	415 SF	42 SF	144 SF	21 SF	37 SF
LEVEL 40 - 44	G	M BR	180 SF	18 SF	52 SF	9 SF	22 SF
LEVEL 40 - 44	G	S BR	117 SF	12 SF	52 SF	6 SF	22 SF
LEVEL 45 - 48	A	LR / DR / K	411 SF	41 SF	145 SF	21 SF	22 SF
LEVEL 45 - 48	A	M BR	166 SF	17 SF	40 SF	8 SF	18 SF
LEVEL 45 - 48	A	S BR	143 SF	14 SF	52 SF	7 SF	22 SF
LEVEL 45 - 48	B	LR / DR / K	350 SF	35 SF	102 SF	18 SF	18 SF
LEVEL 45 - 48	B	M BR	142 SF	14 SF	52 SF	7 SF	22 SF
LEVEL 45 - 48	C	LR / DR / K	345 SF	35 SF	118 SF	17 SF	18 SF
LEVEL 45 - 48	C	M BR	229 SF	23 SF	48 SF	11 SF	18 SF
LEVEL 45 - 48	C	S BR	115 SF	11 SF	55 SF	6 SF	22 SF
LEVEL 45 - 48	D	LR / DR / K	309 SF	31 SF	107 SF	15 SF	18 SF
LEVEL 45 - 48	D	BR	153 SF	15 SF	44 SF	8 SF	22 SF
LEVEL 45 - 48	E	LR / DR / K	337 SF	34 SF	132 SF	17 SF	18 SF
LEVEL 45 - 48	E	BR	162 SF	16 SF	65 SF	8 SF	18 SF
LEVEL 45 - 48	F	LR / DR / K	415 SF	42 SF	144 SF	21 SF	37 SF
LEVEL 45 - 48	F	M BR	152 SF	15 SF	52 SF	8 SF	22 SF
LEVEL 45 - 48	F	S BR	117 SF	12 SF	52 SF	6 SF	22 SF
LEVEL 51 - 55	A	LR / DR / K	358 SF	36 SF	156 SF	18 SF	22 SF
LEVEL 51 - 55	A	M BR	166 SF	17 SF	52 SF	8 SF	22 SF
LEVEL 51 - 55	B	LR / DR / K	346 SF	35 SF	102 SF	17 SF	18 SF
LEVEL 51 - 55	B	M BR	137 SF	14 SF	52 SF	7 SF	22 SF
LEVEL 51 - 55	D	LR / DR / K	344 SF	34 SF	118 SF	17 SF	18 SF
LEVEL 51 - 55	D	M BR	223 SF	22 SF	48 SF	11 SF	18 SF
LEVEL 51 - 55	D	S BR	116 SF	12 SF	55 SF	6 SF	22 SF
LEVEL 51 - 55	E	LR / DR / K	306 SF	31 SF	107 SF	15 SF	18 SF
LEVEL 51 - 55	E	BR	161 SF	16 SF	44 SF	8 SF	22 SF
LEVEL 51 - 55	F	LR / DR / K	333 SF	33 SF	132 SF	17 SF	18 SF
LEVEL 51 - 55	F	BR	166 SF	17 SF	65 SF	8 SF	18 SF
LEVEL 51 - 55	G	LR / DR / K	302 SF	30 SF	118 SF	15 SF	18 SF
LEVEL 51 - 55	G	M BR	215 SF	21 SF	24 SF	11 SF	22 SF
LEVEL 51 - 55	G	S BR	116 SF	12 SF	55 SF	6 SF	22 SF
LEVEL 56 - 60	A	LR / DR / K	481 SF	48 SF	150 SF	24 SF	37 SF
LEVEL 56 - 60	A	M BR	196 SF	20 SF	79 SF	10 SF	18 SF
LEVEL 56 - 60	A	S BR	155 SF	15 SF	52 SF	8 SF	22 SF
LEVEL 56 - 60	D	LR / DR / K	407 SF	41 SF	157 SF	20 SF	44 SF
LEVEL 56 - 60	D	M BR	166 SF	17 SF	48 SF	8 SF	18 SF
LEVEL 56 - 60	D	S BR	143 SF	14 SF	59 SF	7 SF	18 SF
LEVEL 56 - 60	E	LR / DR / K	306 SF	31 SF	107 SF	15 SF	18 SF
LEVEL 56 - 60	E	BR	124 SF	12 SF	24 SF	6 SF	22 SF
LEVEL 56 - 60	F	LR / DR / K	333 SF	33 SF	132 SF	17 SF	22 SF
LEVEL 56 - 60	F	BR	166 SF	17 SF	65 SF	8 SF	18 SF
LEVEL 56 - 60	G	LR / DR / K	302 SF	30 SF	118 SF	15 SF	18 SF
LEVEL 56 - 60	G	M BR	215 SF	21 SF	24 SF	11 SF	22 SF
LEVEL 56 - 60	G	S BR	116 SF	12 SF	55 SF	6 SF	22 SF
LEVEL 61 - 64	A	LR / DR / K	481 SF	48 SF	150 SF	24 SF	37 SF
LEVEL 61 - 64	A	M BR	196 SF	20 SF	79 SF	10 SF	18 SF
LEVEL 61 - 64	A	S BR	130 SF	13 SF	52 SF	6 SF	22 SF
LEVEL 61 - 64	D	LR / DR / K	407 SF	41 SF	157 SF	20 SF	66 SF
LEVEL 61 - 64	D	S BR	143 SF	14 SF	59 SF	7 SF	18 SF
LEVEL 61 - 64	D	M BR	129 SF	13 SF	48 SF	6 SF	18 SF
LEVEL 61 - 64	F	LR / DR / K	446 SF	45 SF	153 SF	22 SF	40 SF
LEVEL 61 - 64	F	M BR	170 SF	17 SF	49 SF	9 SF	22 SF
LEVEL 61 - 64	F	S BR	128 SF	13 SF	79 SF	6 SF	18 SF
LEVEL 61 - 64	G	LR / DR / K	411 SF	41 SF	169 SF	21 SF	44 SF
LEVEL 61 - 64	G	M BR	148 SF	15 SF	44 SF	7 SF	18 SF
LEVEL 61 - 64	G	S BR	114 SF	11 SF	24 SF	6 SF	22 SF
LEVEL 66 - 69	A	LR / DR / K	550 SF	55 SF	234 SF	27 SF	40 SF
LEVEL 66 - 69	A	M BR	222 SF	22 SF	28 SF	11 SF	26 SF
LEVEL 66 - 69	A	S BR	151 SF	15 SF	31 SF	8 SF	29 SF
LEVEL 66 - 69	A	S BR	132 SF	13 SF	63 SF	7 SF	22 SF
LEVEL 66 - 69	B	LR / DR / K	441 SF	44 SF	152 SF	22 SF	40 SF
LEVEL 66 - 69	B	M BR	240 SF	24 SF	69 SF	12 SF	22 SF
LEVEL 66 - 69	B	S BR	132 SF	13 SF	79 SF	7 SF	18 SF
LEVEL 66 - 69	C	LR / DR / K	401 SF	40 SF	168 SF	20 SF	44 SF
LEVEL 66 - 69	C	M BR	282 SF	28 SF	76 SF	14 SF	23 SF
LEVEL 66 - 69	C	S BR	116 SF	12 SF	44 SF	6 SF	18 SF
LEVEL 66 - 69	C	S BR	115 SF	12 SF	44 SF	6 SF	22 SF
LEVEL 70 - 71	A PH	LR / DR / K	741 SF	74 SF	225 SF	37 SF	40 SF
LEVEL 70 - 71	A PH	M BR	298 SF	30 SF	79 SF	15 SF	22 SF
LEVEL 70 - 71	A PH	OFFICE	172 SF	17 SF	76 SF	9 SF	23 SF
LEVEL 70 - 71	A PH	S BR	134 SF	13 SF	52 SF	7 SF	22 SF
LEVEL 70 - 71	A PH	S BR	133 SF	13 SF	44 SF	7 SF	22 SF
LEVEL 70 - 71	A PH	DRS	113 SF	11 SF	49 SF	6 SF	22 SF
LEVEL 70 - 71	B PH	LR / DR / K	803 SF	80 SF	300 SF	40 SF	44 SF
LEVEL 70 - 71	B PH	M BR	191 SF	19 SF	55 SF	10 SF	22 SF
LEVEL 70 - 71	B PH	S BR	166 SF	17 SF	48 SF	8 SF	18 SF
LEVEL 70 - 71	B PH	S BR	156 SF	16 SF	49 SF	8 SF	22 SF
LEVEL 70 - 71	B PH	DRS	97 SF	10 SF	49 SF	5 SF	22 SF

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 57TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 39TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.755-5540

BOLD

LIGHTING
BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEX ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEX ENGINNERING
346 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
260 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2225

TRACE POOL DESIGN

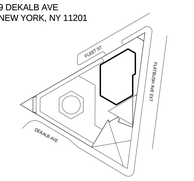
POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

LIGHT AND AIR CALCULATION

SEAL & SIGNATURE

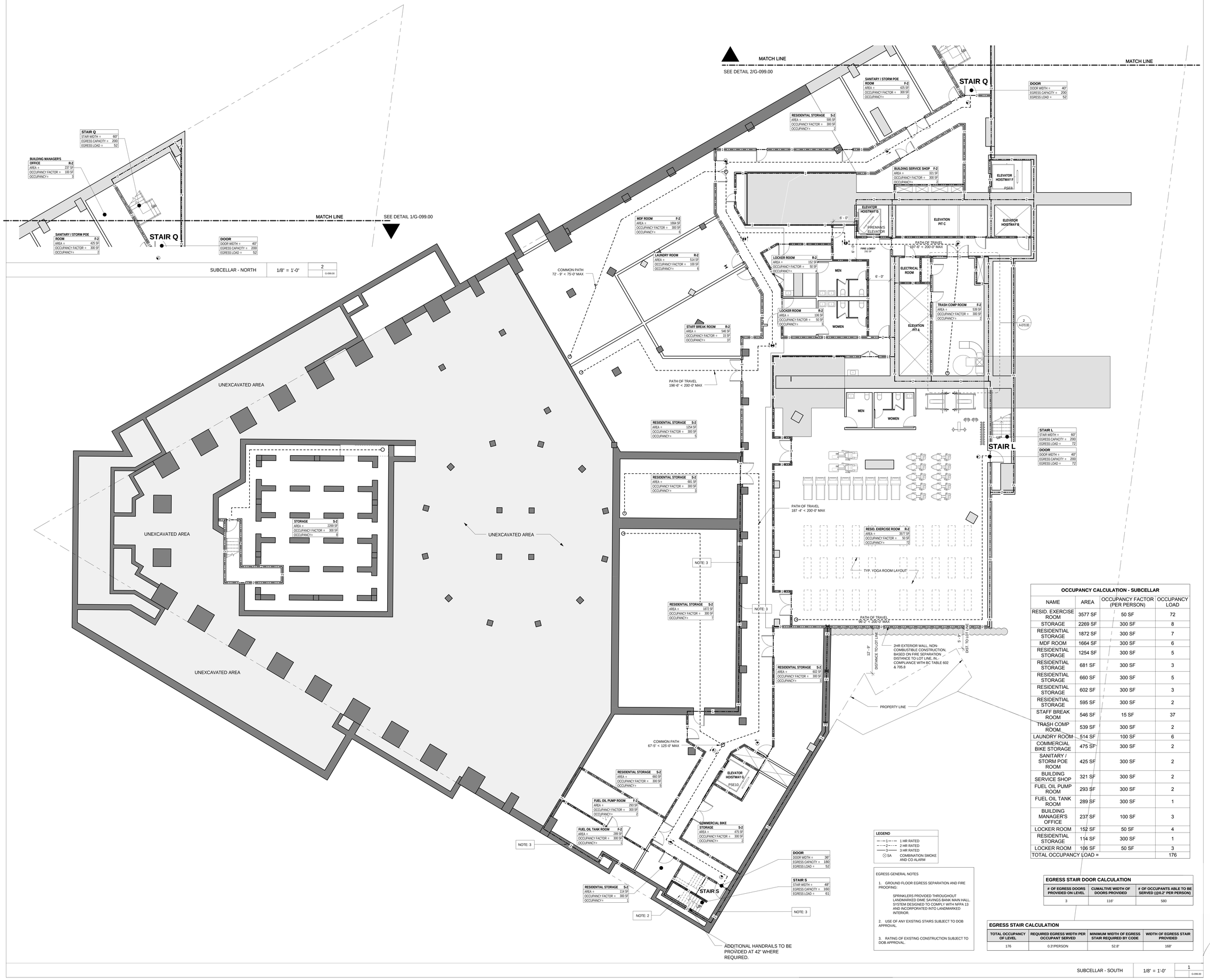
REGISTERED ARCHITECT JESSICA A. PASCUCCI 032228 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

G-050.00

DEPT OF BLDGS 320914338 Job Number
B 1141055 Scan Code



OCCUPANCY CALCULATION - SUBCELLAR			
NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
RESID. EXERCISE ROOM	3577 SF	50 SF	72
STORAGE	2269 SF	300 SF	8
RESIDENTIAL STORAGE	1872 SF	300 SF	7
MDF ROOM	1664 SF	300 SF	6
RESIDENTIAL STORAGE	1254 SF	300 SF	5
RESIDENTIAL STORAGE	681 SF	300 SF	3
RESIDENTIAL STORAGE	660 SF	300 SF	5
RESIDENTIAL STORAGE	602 SF	300 SF	3
RESIDENTIAL STORAGE	595 SF	300 SF	2
STAFF BREAK ROOM	546 SF	15 SF	37
TRASH COMP ROOM	539 SF	300 SF	2
LAUNDRY ROOM	514 SF	100 SF	6
COMMERCIAL BIKE STORAGE	475 SF	300 SF	2
SANITARY / STORM POE ROOM	425 SF	300 SF	2
BUILDING SERVICE SHOP	321 SF	300 SF	2
FUEL OIL PUMP ROOM	293 SF	300 SF	2
FUEL OIL TANK ROOM	289 SF	300 SF	1
BUILDING MANAGER'S OFFICE	237 SF	100 SF	3
LOCKER ROOM	152 SF	50 SF	4
RESIDENTIAL STORAGE	114 SF	300 SF	1
LOCKER ROOM	106 SF	50 SF	3
TOTAL OCCUPANCY LOAD =			176

EGRESS STAIR DOOR CALCULATION		
# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
3	116"	580

EGRESS STAIR CALCULATION			
TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
176	0.3"/PERSON	52.8"	168"

LEGEND
- 1 HR RATED
- 2 HR RATED
- 3 HR RATED
- SA COMBINATION SMOKE AND CO ALARM

EGRESS GENERAL NOTES

1. GROUND FLOOR EGRESS SEPARATION AND FIRE PROOFING:
   SPRINKLERS PROVIDED THROUGHOUT LANDMARKED DIME SAVINGS BANK MAIN HALL. SYSTEM DESIGNED TO COMPLY WITH NFPA 13 AND INCORPORATED INTO LANDMARKED INTERIOR.
2. USE OF ANY EXISTING STAIRS SUBJECT TO DOB APPROVAL.
3. RATING OF EXISTING CONSTRUCTION SUBJECT TO DOB APPROVAL.

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

ARCHITECT
ShoP ARCHITECTS, P.C.
233 BROADWAY, 117H FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 60TH STREET
NEW YORK, NY 10017
tel 212.687.8888

GEOTECHNICAL ENGINEER
MIRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.759.6560

LIGHTING
BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7800

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10016
tel 212.689.5389

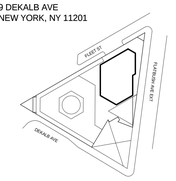
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.223.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
10/06/16	DOB FILING SET REV 2			
07/15/16	DOB FILING SET			
02/05/16	100% SD REASSESSMENT			
05/05/15	DOB FILING SET			
3/13/15	100% SCHEMATIC DESIGN			

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DRAWING TITLE

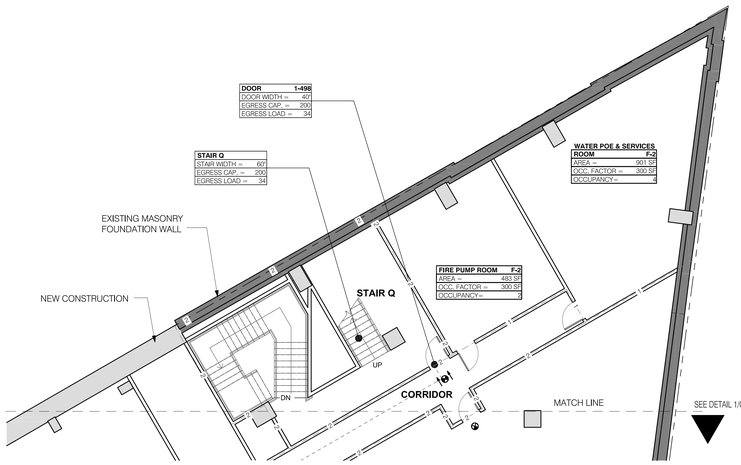
OCCUPANCY LOAD AND EGRESS ANALYSIS - SUBCELLAR

SEAL & SIGNATURE

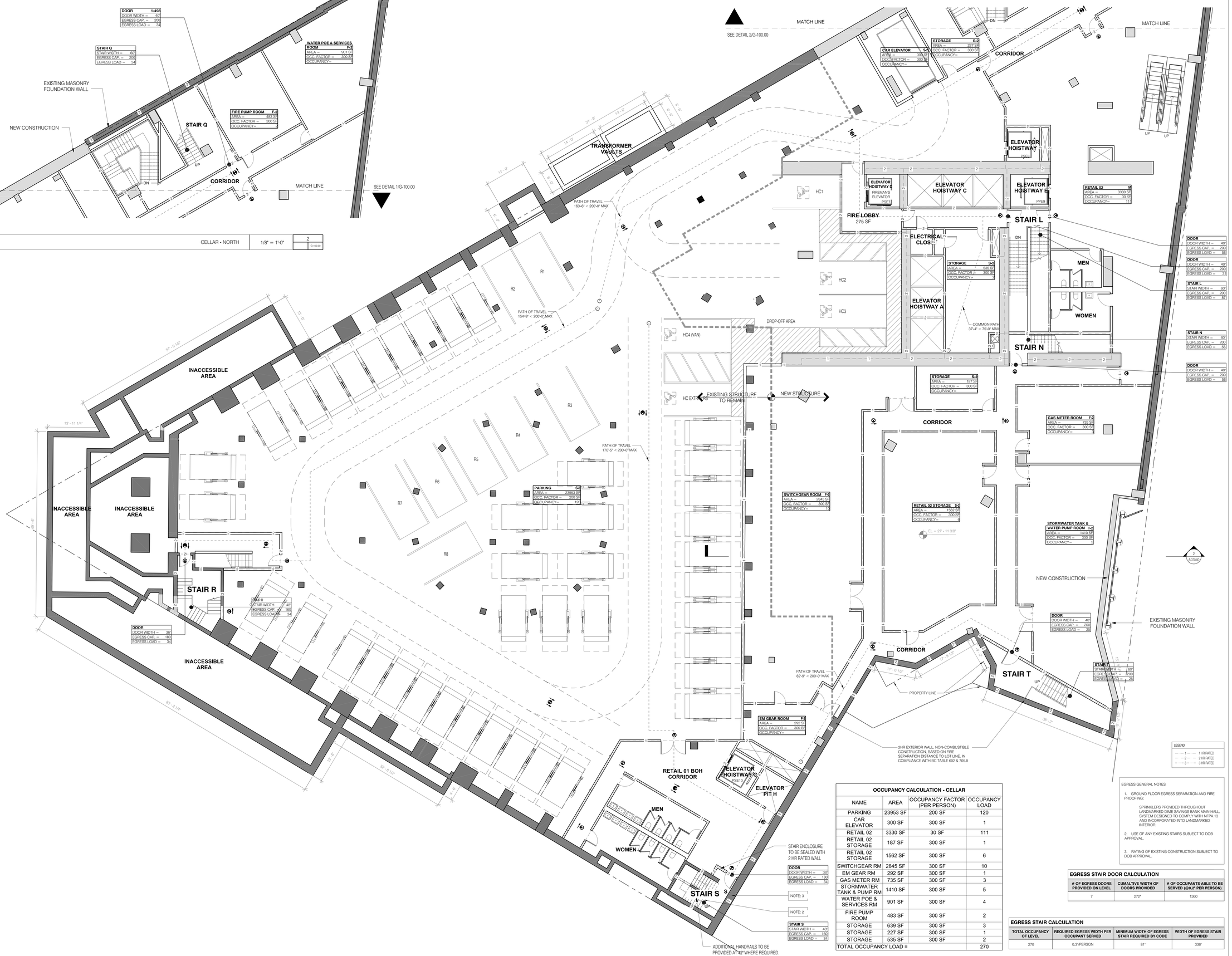
REGISTERED ARCHITECT JOSHUA A. PASQUARELLI 029744 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	G-099.00

DEPT OF BLDGS 320914338 Job Number
E3230957726 Scan Code



CELLAR - NORTH | 1/8" = 1'-0" | 2 / G-100.00



CELLAR - SOUTH | 1/8" = 1'-0" | 1 / G-100.00

LEGEND
— 1 — 1 HR RATED
— 2 — 2 HR RATED
— 3 — 3 HR RATED

OCCUPANCY CALCULATION - CELLAR

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
PARKING	23953 SF	200 SF	120
CAR ELEVATOR	300 SF	300 SF	1
RETAIL 02	3330 SF	30 SF	111
RETAIL 02 STORAGE	187 SF	300 SF	1
RETAIL 02 STORAGE	1562 SF	300 SF	6
SWITCHGEAR RM	2845 SF	300 SF	10
EM GEAR RM	292 SF	300 SF	1
GAS METER RM	735 SF	300 SF	3
STORMWATER TANK & PUMP RM	1410 SF	300 SF	5
WATER POE & SERVICES RM	901 SF	300 SF	4
FIRE PUMP ROOM	483 SF	300 SF	2
STORAGE	639 SF	300 SF	3
STORAGE	227 SF	300 SF	1
STORAGE	535 SF	300 SF	2
TOTAL OCCUPANCY LOAD =			270

EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
7	272"	1360

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
270	0.3"/PERSON	81"	336"

EGRESS GENERAL NOTES

1. GROUND FLOOR EGRESS SEPARATION AND FIRE PROOFING:
   SPRINKLERS PROVIDED THROUGHOUT LANDMARKED DIME SAVINGS BANK MAIN HALL. SYSTEM DESIGNED TO COMPLY WITH NFPA 13 AND INCORPORATED INTO LANDMARKED INTERIOR.
2. USE OF ANY EXISTING STAIRS SUBJECT TO DOB APPROVAL.
3. RATING OF EXISTING CONSTRUCTION SUBJECT TO DOB APPROVAL.

DATE	ISSUE	NO.
07/15/16	DOB FILING SET	
04/21/16	FO / SOE DOB FILING SET	
07/01/16	FACADE BID PACKAGE	
02/05/16	100% SD REASSESSMENT	
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DRAWING TITLE

OCCUPANCY LOAD AND EGRESS ANALYSIS - CELLAR

SEAL & SIGNATURE

REGISTERED ARCHITECT GREGORY PASQUARELLI STATE OF NEW YORK

DATE 07/15/16
PROJECT NO. 140429
DRAWN BY SHoP
CHECKED BY SHoP
DOB NO. 320914338
DRAWING NUMBER
G-100.00

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.625.3640

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9000

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 45TH STREET
NEW YORK, NY 10017
tel 212.697.9666

GEOTECHNICAL ENGINEER
MRGE
220 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9626

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE, SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, #10
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
594 BROADWAY, SUITE 509
NEW YORK, NY 10012
tel 646.666.6646

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

LIGHTING
BOLD
227 WEST 20TH STREET
NEW YORK, NY 10001
tel 212.674.6000

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 506
NEW YORK, NY 10018
tel 212.315.8400

BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5399

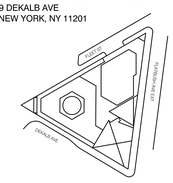
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 35TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

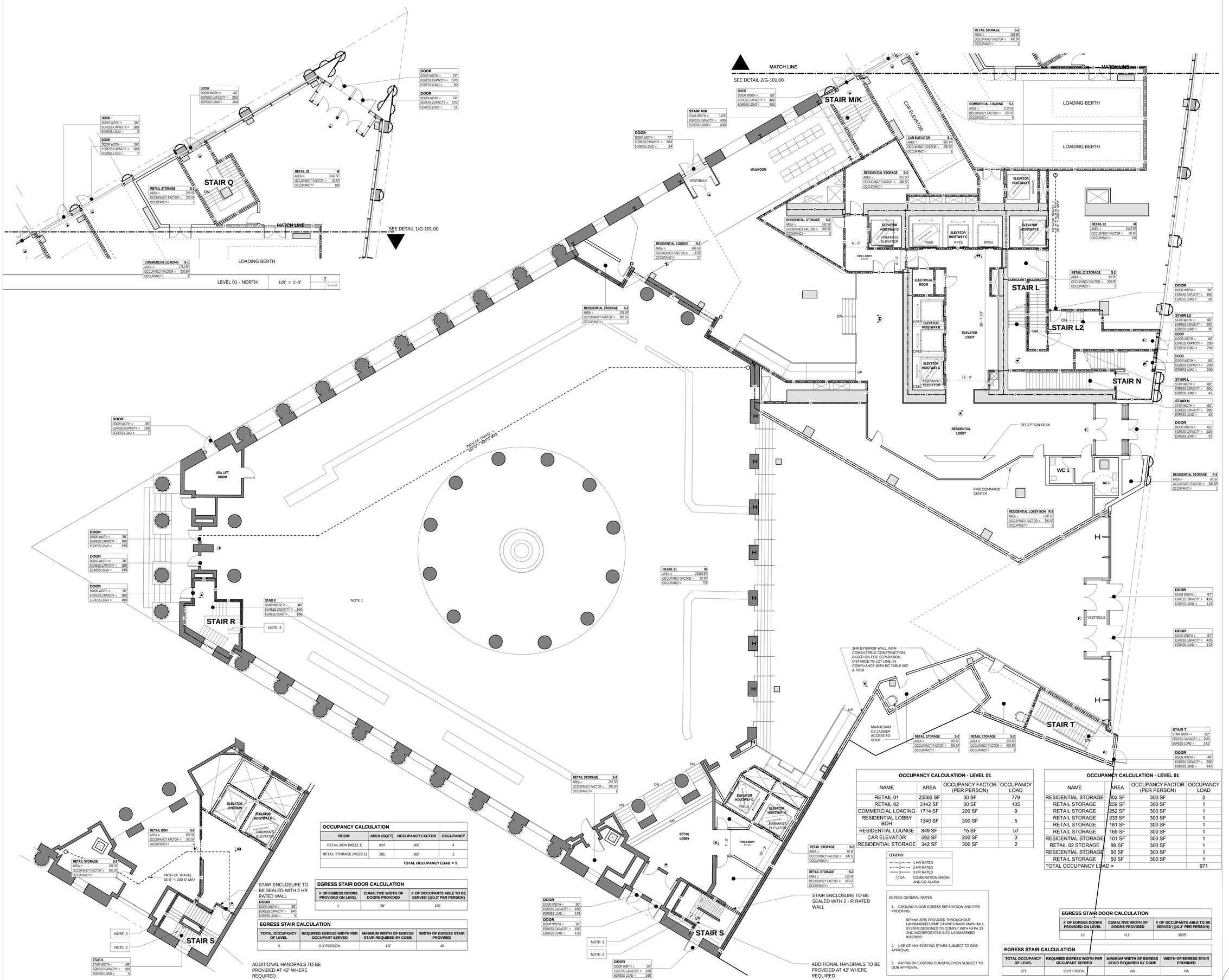
9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DEPT OF BLDGS 320014338 Job Number
E346487017 Scan Code



LEVEL 01 - NORTH	1/8" = 1'-0"	2 / G-101.00

LEVEL 01, MEZZANINE 01 - OCCUPANCY AND EGRESS	1/8" = 1'-0"	3 / G-101.00

LEVEL 01 - SOUTH	1/8" = 1'-0"	1 / G-101.00

OCCUPANCY CALCULATION

ROOM	AREA (SQFT)	OCCUPANCY FACTOR	OCCUPANCY
RETAIL BOH (MEZZ 1)	924	300	4
RETAIL STORAGE (MEZZ 1)	291	300	1
		TOTAL OCCUPANCY LOAD =	5

EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
1	36"	180

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
5	0.3"/PERSON	1.5"	48

OCCUPANCY CALCULATION - LEVEL 01

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
RETAIL 01	23360 SF	30 SF	779
RETAIL 02	3142 SF	30 SF	105
COMMERCIAL LOADING	1714 SF	200 SF	9
RESIDENTIAL LOBBY BOH	1340 SF	300 SF	5
RESIDENTIAL LOUNGE	849 SF	15 SF	57
CAR ELEVATOR	592 SF	200 SF	3
RESIDENTIAL STORAGE	342 SF	300 SF	2

LEGEND

- 1 HR RATED
- 2 HR RATED
- 3 HR RATED
- SA COMBINATION SMOKE AND CO ALARM

EGRESS GENERAL NOTES

1. GROUND FLOOR EGRESS SEPARATION AND FIRE PROOFING:
   SPRINKLERS PROVIDED THROUGHOUT LANDMARKED DIME SAVINGS BANK MAIN HALL. SYSTEM DESIGNED TO COMPLY WITH NFPA 13 AND INCORPORATED INTO LANDMARKED INTERIOR.
2. USE OF ANY EXISTING STAIRS SUBJECT TO DOB APPROVAL.
3. RATING OF EXISTING CONSTRUCTION SUBJECT TO DOB APPROVAL.

OCCUPANCY CALCULATION - LEVEL 01

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
RESIDENTIAL STORAGE	302 SF	300 SF	2
RETAIL STORAGE	259 SF	300 SF	1
RETAIL STORAGE	252 SF	300 SF	1
RETAIL STORAGE	233 SF	300 SF	1
RETAIL STORAGE	181 SF	300 SF	1
RETAIL STORAGE	169 SF	300 SF	1
RESIDENTIAL STORAGE	101 SF	300 SF	1
RETAIL 02 STORAGE	99 SF	300 SF	1
RESIDENTIAL STORAGE	60 SF	300 SF	1
RETAIL STORAGE	50 SF	300 SF	1
TOTAL OCCUPANCY LOAD =			971

EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
13	711"	3555

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
971	0.3"/PERSON	NA	NA

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 60TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
220 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.759.6540

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LIGHTING
BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
369 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.204.2925

Lefrois TRACE POOL DESIGN

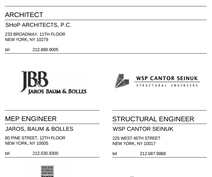
POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.223.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

NO.	DATE	REVISION
	10/06/16	DOB FILING SET REV 2
	07/15/16	DOB FILING SET
	03/04/16	100% SD REASSESSMENT
	05/05/15	DOB FILING SET
	3/13/15	100% SCHEMATIC DESIGN

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DRAWING TITLE

OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVEL 01

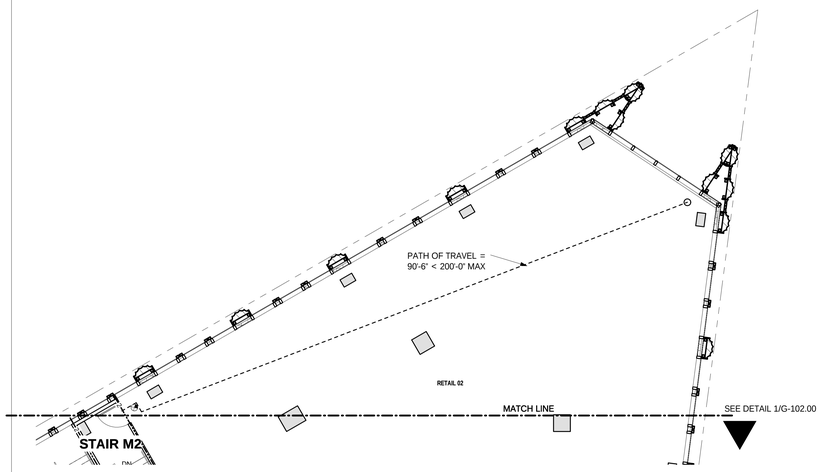
SEAL & SIGNATURE

REGISTERED ARCHITECT DAVID A. PASQUARELLI STATE OF NEW YORK

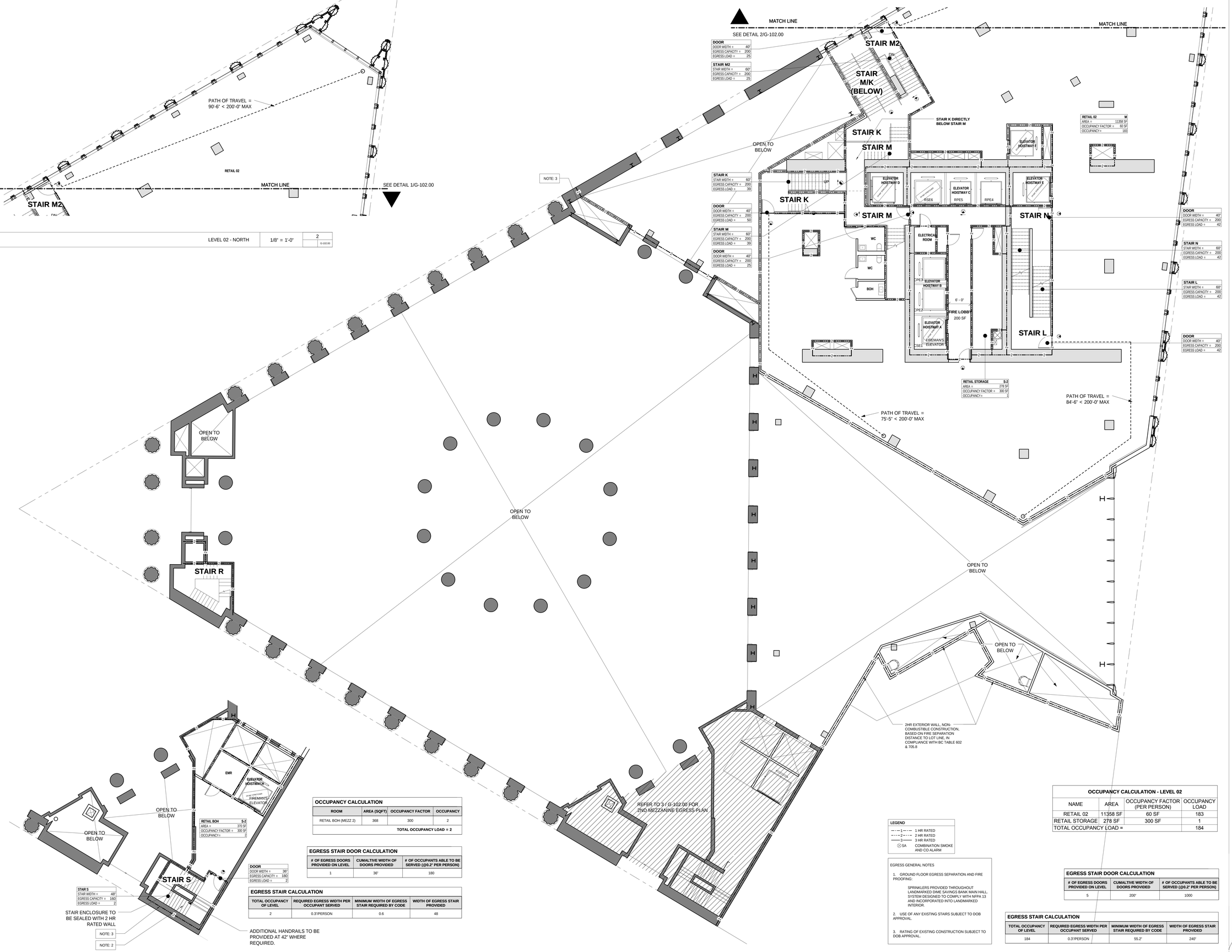
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	G-101.00

DEPT OF BLDGS 320014338 Job Number

E389997160SI Scan Code



LEVEL 02 - NORTH | 1/8" = 1'-0" | 2 / G-102.00



OCCUPANCY CALCULATION

ROOM	AREA (SQFT)	OCCUPANCY FACTOR	OCCUPANCY
RETAIL BOH (MEZZ 2)	368	300	2
		TOTAL OCCUPANCY LOAD =	2

EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
1	36"	180

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
2	0.3"/PERSON	0.6	48

LEVEL 01, MEZZANINE 02 - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 3 / G-102.00

OCCUPANCY CALCULATION - LEVEL 02

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
RETAIL 02	11358 SF	60 SF	183
RETAIL STORAGE	278 SF	300 SF	1
TOTAL OCCUPANCY LOAD =			184

LEGEND

- 1 HR RATED
- 2 HR RATED
- 3 HR RATED
- SA COMBINATION SMOKE AND CO ALARM

EGRESS GENERAL NOTES

1. GROUND FLOOR EGRESS SEPARATION AND FIRE PROOFING:
   SPRINKLERS PROVIDED THROUGHOUT LANDMARKED DIME SAVINGS BANK MAIN HALL. SYSTEM DESIGNED TO COMPLY WITH NFPA 13 AND INCORPORATED INTO LANDMARKED INTERIOR.
2. USE OF ANY EXISTING STAIRS SUBJECT TO DOB APPROVAL.
3. RATING OF EXISTING CONSTRUCTION SUBJECT TO DOB APPROVAL.

EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
5	200"	1000

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
184	0.3"/PERSON	55.2"	240"

LEVEL 02 - SOUTH | 1/8" = 1'-0" | 1 / G-102.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES ARCHITECTURE PRESERVATION

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST, FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6560

BOLD

LIGHTING
BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
260 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10013
tel 212.689.5389

BURO HAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

TRACE POOL DESIGN

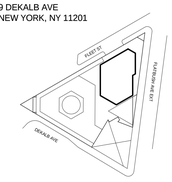
POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.223.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
10/06/16	DOB FILING SET REV 2			
07/15/16	DOB FILING SET			
02/05/16	100% SD REASSESSMENT			
3/13/15	100% SCHEMATIC DESIGN			

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DRAWING TITLE

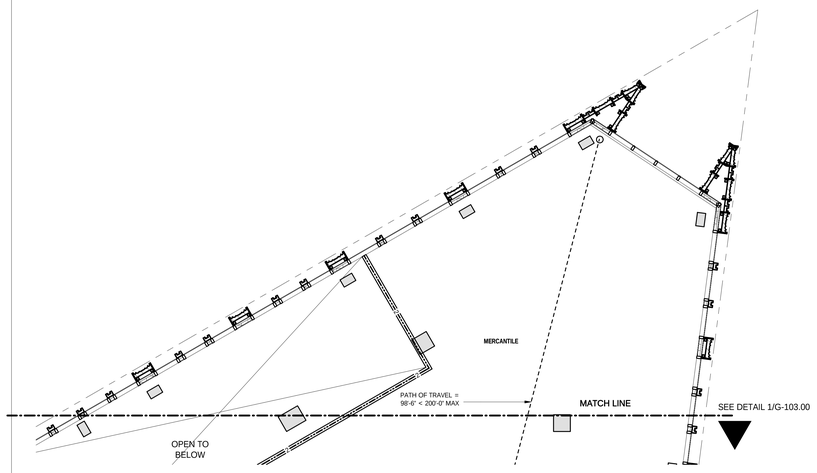
OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVEL 02

SEAL & SIGNATURE

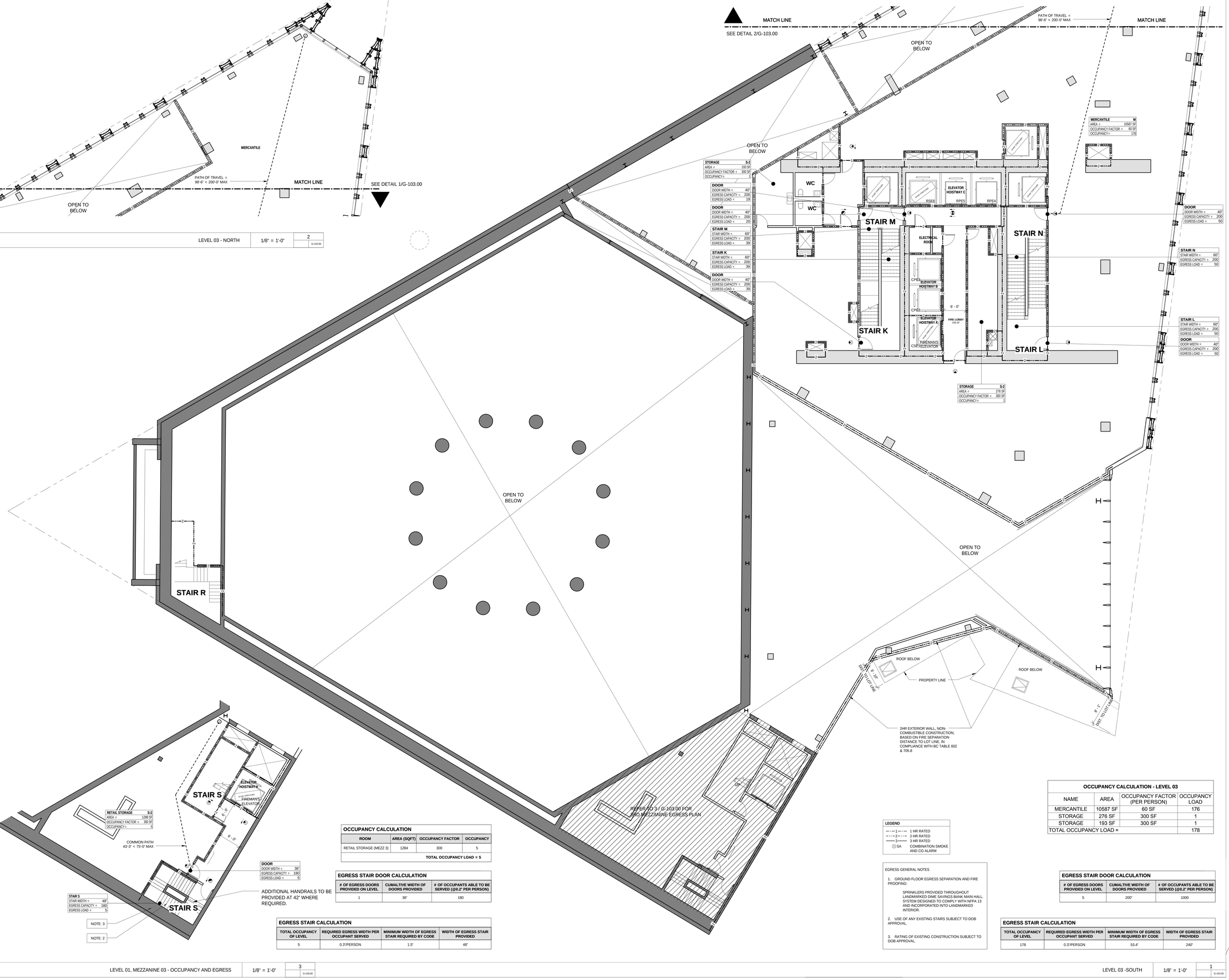
REGISTERED ARCHITECT JORDAN A. PASQUINELLI STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	G-102.00

DEPT OF BLDGS 320914338 Job Number
E303187004FS Scan Code



LEVEL 03 - NORTH | 1/8" = 1'-0" | 2 / G-103.00



STORAGE	S-2
AREA =	193 SF
OCCUPANCY FACTOR =	300 SF
OCCUPANCY =	1

DOOR	
DOOR WIDTH =	40"
EGRESS CAPACITY =	200
EGRESS LOAD =	19

DOOR	
DOOR WIDTH =	40"
EGRESS CAPACITY =	200
EGRESS LOAD =	20

STAIR M	
STAIR WIDTH =	60"
EGRESS CAPACITY =	200
EGRESS LOAD =	39

STAIR K	
STAIR WIDTH =	60"
EGRESS CAPACITY =	200
EGRESS LOAD =	39

DOOR	
DOOR WIDTH =	40"
EGRESS CAPACITY =	200
EGRESS LOAD =	39

MERCANTILE	M
AREA =	10587 SF
OCCUPANCY FACTOR =	60 SF
OCCUPANCY =	176

DOOR	
DOOR WIDTH =	40"
EGRESS CAPACITY =	200
EGRESS LOAD =	50

STAIR N	
STAIR WIDTH =	60"
EGRESS CAPACITY =	200
EGRESS LOAD =	50

STAIR L	
STAIR WIDTH =	60"
EGRESS CAPACITY =	200
EGRESS LOAD =	50

DOOR	
DOOR WIDTH =	40"
EGRESS CAPACITY =	200
EGRESS LOAD =	50

STORAGE	S-2
AREA =	276 SF
OCCUPANCY FACTOR =	300 SF
OCCUPANCY =	1

RETAIL STORAGE	S-2
AREA =	1288 SF
OCCUPANCY FACTOR =	300 SF
OCCUPANCY =	5

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	5

STAIR S	
STAIR WIDTH =	48"
EGRESS CAPACITY =	160
EGRESS LOAD =	5

COMMON PATH
43'-3" < 75'-0" MAX

ADDITIONAL HANDRAILS TO BE PROVIDED AT 42" WHERE REQUIRED.

NOTE: 3

NOTE: 2

LEVEL 01, MEZZANINE 03 - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 3 / G-103.00

OCCUPANCY CALCULATION

ROOM	AREA (SQFT)	OCCUPANCY FACTOR	OCCUPANCY
RETAIL STORAGE (MEZZ 3)	1284	300	5
		TOTAL OCCUPANCY LOAD =	5

EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
1	36"	180

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
5	0.3"/PERSON	1.5"	48"

LEGEND

1	1 HR RATED
2	2 HR RATED
3	3 HR RATED
SA	COMBINATION SMOKE AND CO ALARM

EGRESS GENERAL NOTES

1. GROUND FLOOR EGRESS SEPARATION AND FIRE PROOFING:
   SPRINKLERS PROVIDED THROUGHOUT LANDMARKED DIME SAVINGS BANK MAIN HALL. SYSTEM DESIGNED TO COMPLY WITH NFPA 13 AND INCORPORATED INTO LANDMARKED INTERIOR.
2. USE OF ANY EXISTING STAIRS SUBJECT TO DOB APPROVAL.
3. RATING OF EXISTING CONSTRUCTION SUBJECT TO DOB APPROVAL.

OCCUPANCY CALCULATION - LEVEL 03

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
MERCANTILE	10587 SF	60 SF	176
STORAGE	276 SF	300 SF	1
STORAGE	193 SF	300 SF	1
TOTAL OCCUPANCY LOAD =			178

EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
5	200"	1000

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
178	0.3"/PERSON	53.4"	240"

LEVEL 03 -SOUTH | 1/8" = 1'-0" | 1 / G-103.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

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EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
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tel 917.661.7800

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INTERIORS
GACHOT
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NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10001
tel 212.674.6500

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NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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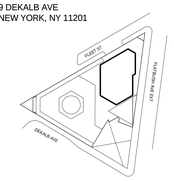
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.223.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

10/06/16	DOB FILING SET REV 2	
07/15/16	DOB FILING SET	
02/05/16	100% SD REASSESSMENT	
3/13/15	100% SCHEMATIC DESIGN	
DATE	ISSUE	NO. DATE REVISION

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DRAWING TITLE

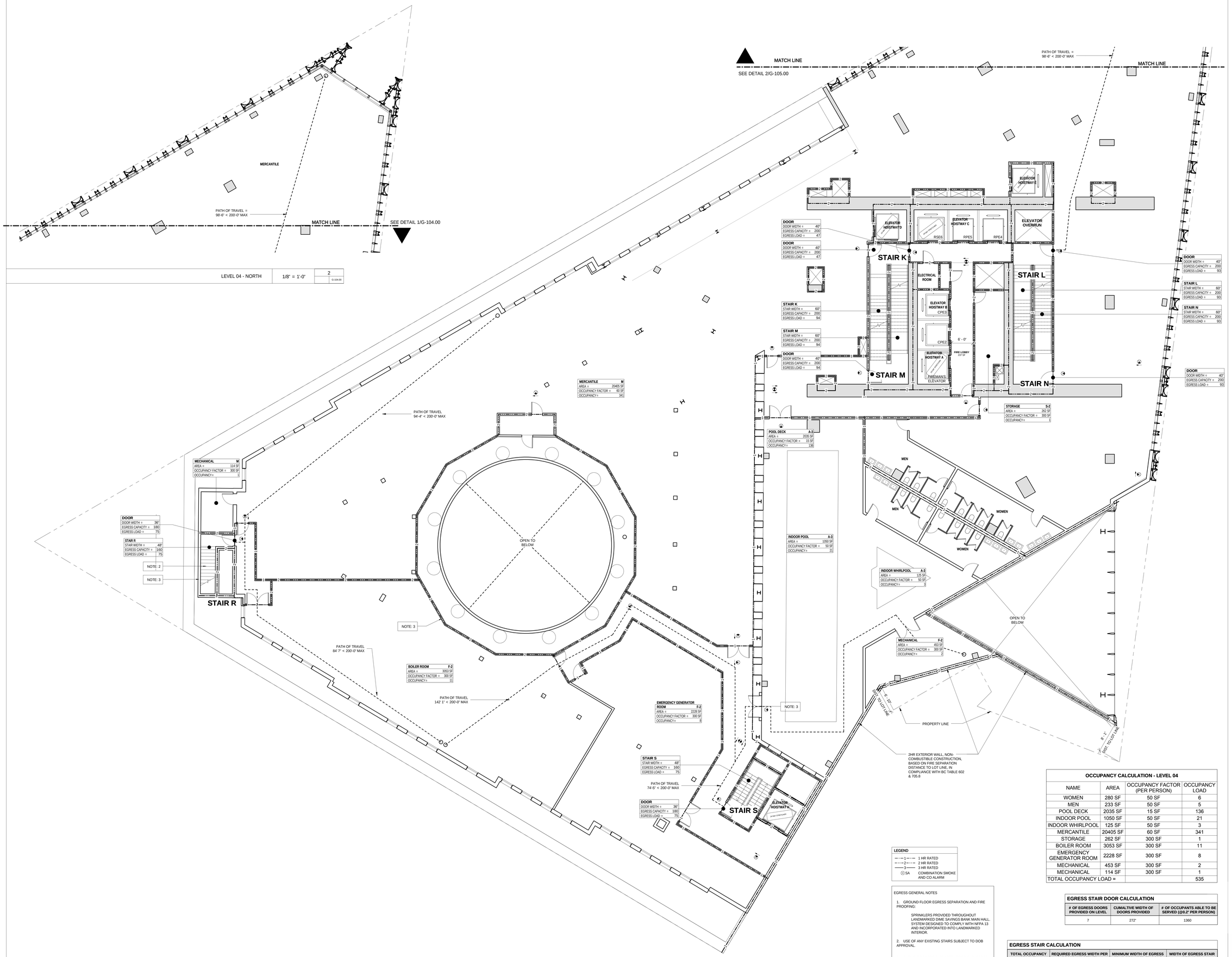
OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVEL 03

SEAL & SIGNATURE

REGISTERED ARCHITECT JORGE A. PASQUINELLI STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	G-103.00

DEPT OF BLDGS 320914338 Job Number
E1522351156 Scan Code



LEVEL 04 - NORTH	1/8" = 1'-0"	2 / G-104.00
LEVEL 04 - SOUTH	1/8" = 1'-0"	1 / G-104.00

LEGEND

1	1 HR RATED
2	2 HR RATED
3	3 HR RATED
SA	COMBINATION SMOKE AND CO ALARM

EGRESS GENERAL NOTES

1. GROUND FLOOR EGRESS SEPARATION AND FIRE PROOFING:
   SPRINKLERS PROVIDED THROUGHOUT LANDMARKED DIME SAVINGS BANK MAIN HALL. SYSTEM DESIGNED TO COMPLY WITH NFPA 13 AND INCORPORATED INTO LANDMARKED INTERIOR.
2. USE OF ANY EXISTING STAIRS SUBJECT TO DOB APPROVAL.
3. RATING OF EXISTING CONSTRUCTION SUBJECT TO DOB APPROVAL.

OCCUPANCY CALCULATION - LEVEL 04

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
WOMEN	280 SF	50 SF	6
MEN	233 SF	50 SF	5
POOL DECK	2035 SF	15 SF	136
INDOOR POOL	1050 SF	50 SF	21
INDOOR WHIRLPOOL	125 SF	50 SF	3
MERCANTILE	20405 SF	60 SF	341
STORAGE	262 SF	300 SF	1
BOILER ROOM	3053 SF	300 SF	11
EMERGENCY GENERATOR ROOM	2228 SF	300 SF	8
MECHANICAL	453 SF	300 SF	2
MECHANICAL	114 SF	300 SF	1
TOTAL OCCUPANCY LOAD =			535

EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
7	272"	1360

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
535	0.3"/PERSON	160.5"	336"

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
90 PINE STREET, 17TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.6888

GEOTECHNICAL ENGINEER
MIRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
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NEW YORK, NY 10016
tel 646.388.9828

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VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.759.6560

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227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7000

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
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NEW YORK, NY 10005
tel 212.334.2325

POOL
TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.495.4290

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
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9 DEKALB AVE
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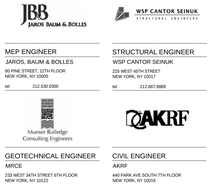

SITE DIAGRAM

10/06/16	DOB FILING SET REV 2
07/15/16	DOB FILING SET
02/05/16	100% SD REASSESSMENT

DATE ISSUE | NO. DATE REVISION

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DRAWING TITLE

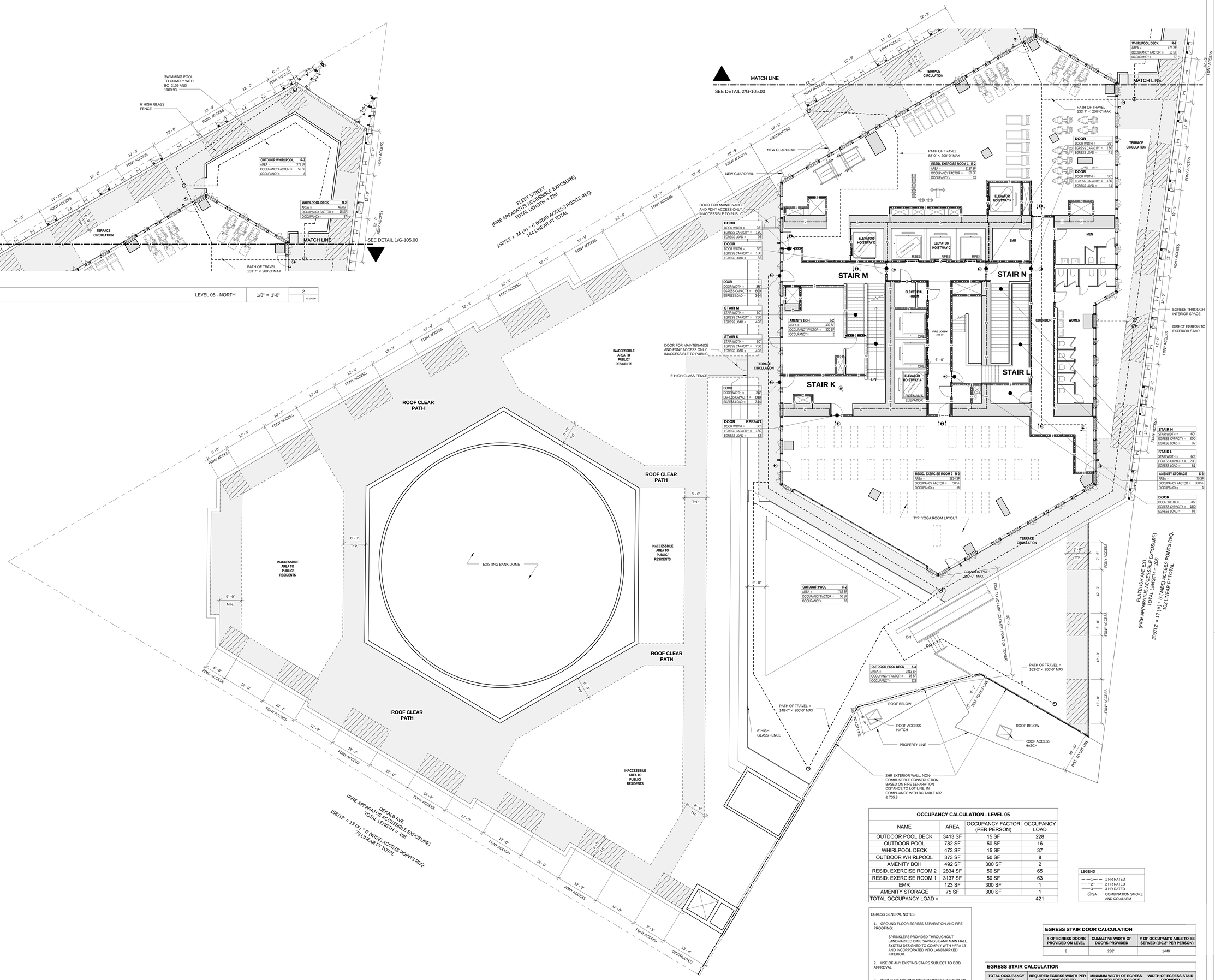
OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVEL 04

SEAL & SIGNATURE:

REGISTERED ARCHITECT GREGORY PASQUARELLI STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	G-104.00

DEPT OF BLDGS 320014338 Job Number
E 5411660233 Scan Code



LEVEL 05 - NORTH	1/8" = 1'-0"	2 / G-105.00

LEVEL 05 - SOUTH	1/8" = 1'-0"	1 / G-105.00

OCCUPANCY CALCULATION - LEVEL 05

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
OUTDOOR POOL DECK	3413 SF	15 SF	228
OUTDOOR POOL	782 SF	50 SF	16
WHIRLPOOL DECK	473 SF	15 SF	37
OUTDOOR WHIRLPOOL	373 SF	50 SF	8
AMENITY BOH	492 SF	300 SF	2
RESID. EXERCISE ROOM 2	2834 SF	50 SF	65
RESID. EXERCISE ROOM 1	3137 SF	50 SF	63
EMR	123 SF	300 SF	1
AMENITY STORAGE	75 SF	300 SF	1
TOTAL OCCUPANCY LOAD =			421

LEGEND
1 HR RATED
2 HR RATED
3 HR RATED
SA COMBINATION SMOKE AND CO ALARM

EGRESS GENERAL NOTES

1. GROUND FLOOR EGRESS SEPARATION AND FIRE PROOFING:
   SPRINKLERS PROVIDED THROUGHOUT LANDMARKED DIME SAVINGS BANK MAIN HALL. SYSTEM DESIGNED TO COMPLY WITH NFPA 13 AND INCORPORATED INTO LANDMARKED INTERIOR.
2. USE OF ANY EXISTING STAIRS SUBJECT TO DOB APPROVAL.
3. RATING OF EXISTING CONSTRUCTION SUBJECT TO DOB APPROVAL.

EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
8	288"	1440

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
421	0.3"/PERSON	126.3"	240"

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
30 PINE STREET, 17TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.6888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 39TH STREET 6TH FLOOR
NEW YORK, NY 10022
tel 917.339.9300

OAKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6560

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NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
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NEW YORK, NY 10010
tel 212.889.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2325

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333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

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METROPOLIS GROUP, INC.
22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.223.6344

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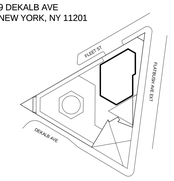
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
10/06/16	DOB FILING SET REV 2			
07/15/16	DOB FILING SET			
02/05/16	100% SD REASSESMENT			
05/05/15	DOB FILING SET			
3/13/15	100% SCHEMATIC DESIGN			

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DRAWING TITLE

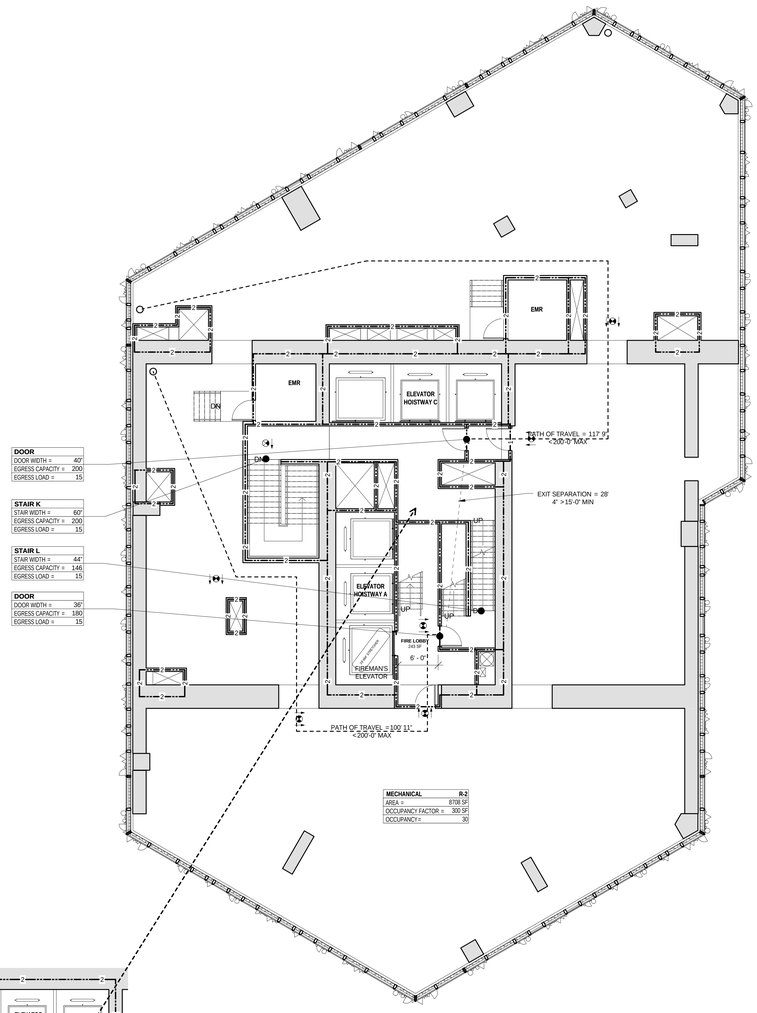
OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVEL 05

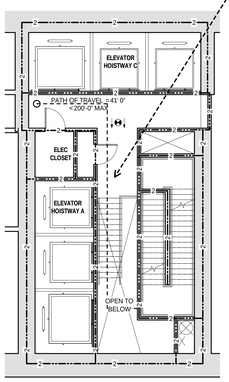
SEAL & SIGNATURE:
REGISTERED ARCHITECT OSCAR ANDRES DRAWIGNY STATE OF NEW YORK

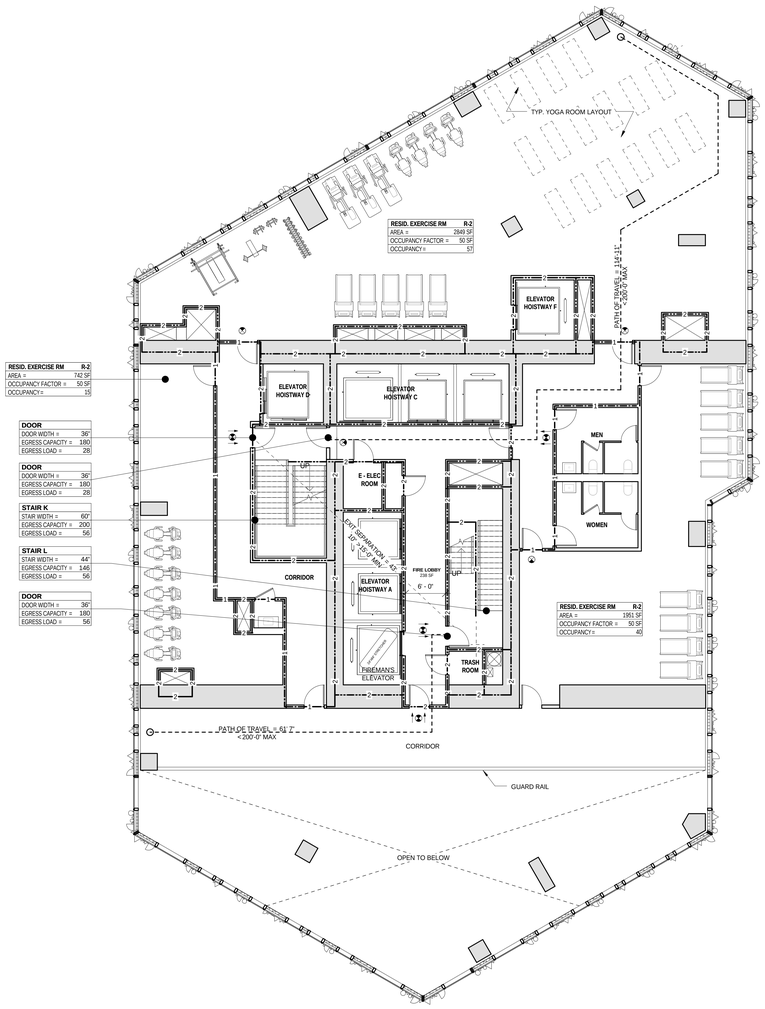
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	G-105.00

DEPT OF BLDGS 320914338 Job Number

E1640351488 Scan Code







OCCUPANCY CALCULATION - LEVEL 07

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
MECHANICAL	8708 SF	300 SF	30
TOTAL OCCUPANCY LOAD =			30

EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
2	72"	360

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
30	0.3"/PERSON	9"	92"

OCCUPANCY CALCULATION - LEVEL 06

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
RESID. EXERCISE RM	2849 SF	50 SF	57
RESID. EXERCISE RM	1951 SF	50 SF	40
RESID. EXERCISE RM	742 SF	50 SF	15
TOTAL OCCUPANCY LOAD =			112

EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
3	108"	540

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
112	0.3"/PERSON	33.6"	104"

LEGEND

1	1 HR RATED
2	2 HR RATED
3	3 HR RATED
SA	COMBINATION SMOKE AND CO ALARM

LEVEL 07 MEZZ - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 3 G-106.00

LEVEL 07 - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 2 G-106.00

LEVEL 06 - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 1 G-106.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
SHoP ARCHITECTS, P.C.
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NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

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237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.889.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lothrop TRACE POOL DESIGN

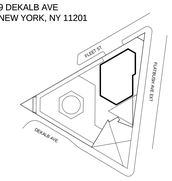
POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.223.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

10/06/16	DOB FILING SET REV 2	
07/15/16	DOB FILING SET	
02/05/16	100% SD REASSESSMENT	
05/05/15	DOB FILING SET	
3/13/15	100% SCHEMATIC DESIGN	
DATE	ISSUE	NO. DATE REVISION

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DRAWING TITLE

OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVEL 06 / 07

SEAL & SIGNATURE

REGISTERED ARCHITECT JORDAN A. PASQUARELLA 029958 STATE OF NEW YORK

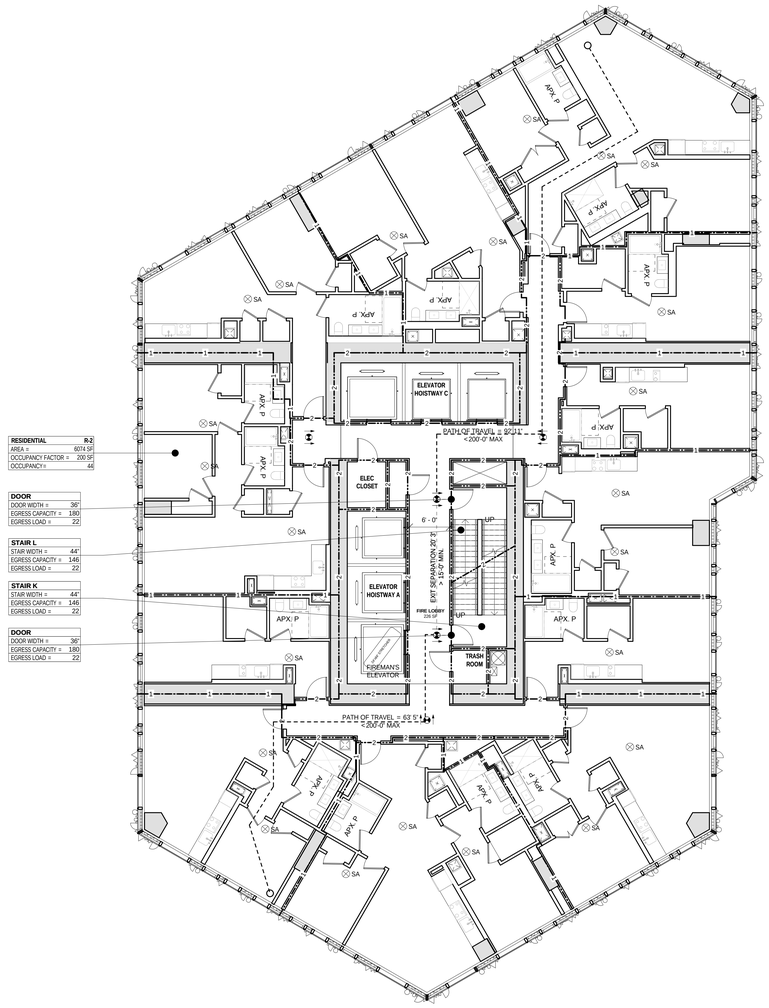
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

G-106.00

DEPT OF BLDGS 320014338 Job Number

E-5905958043 Scan Code



RESIDENTIAL	R-2
AREA =	6074 SF
OCCUPANCY FACTOR =	200 SF
OCCUPANCY =	44

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	22

STAIR L	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	22

STAIR K	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	22

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	22

LEGEND

—1—	1 HR RATED
—2—	2 HR RATED
—3—	3 HR RATED
SA	COMBINATION SMOKE AND CO ALARM

OCCUPANCY CALCULATION - LEVEL 09

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
RESIDENTIAL	6074 SF	200 SF	44
TOTAL OCCUPANCY LOAD =			44

EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED ((0.2" PER PERSON)
2	72"	360

EGRESS GENERAL NOTES

1. GROUND FLOOR EGRESS SEPARATION AND FIRE PROOFING:

   SPRINKLERS PROVIDED THROUGHOUT LANDMARKED DIME SAVINGS BANK MAIN HALL. SYSTEM DESIGNED TO COMPLY WITH NFPA 13 AND INCORPORATED INTO LANDMARKED INTERIOR.

2. USE OF ANY EXISTING STAIRS SUBJECT TO DOB APPROVAL.

3. RATING OF EXISTING CONSTRUCTION SUBJECT TO DOB APPROVAL.

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
44	0.3"/PERSON	13.2"	88"

CARBON MONOXIDE DETECTOR NOTE

1. HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH §28.2-908 AND BE INSTALLED IN ACCORDANCE WITH §28.2-908.7.1.2.
2. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE DETECTORS MUST BE FILED WITH THE DIVISION OF CODE ENFORCEMENT HPD, 10 DAYS AFTER INSTALLATION IS COMPLETE.

LEVEL 09 - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 2 | G-108.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-0540

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237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
355 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.204.2925

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333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.223.6344

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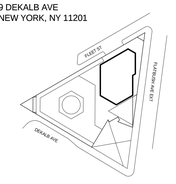
9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
03/05/16	100% SD REASSESSMENT
09/05/15	DOB FILING SET
3/13/15	100% SCHEMATIC DESIGN

NO.	DATE	REVISION

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DRAWING TITLE

OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVELS 08-14

SEAL & SIGNATURE

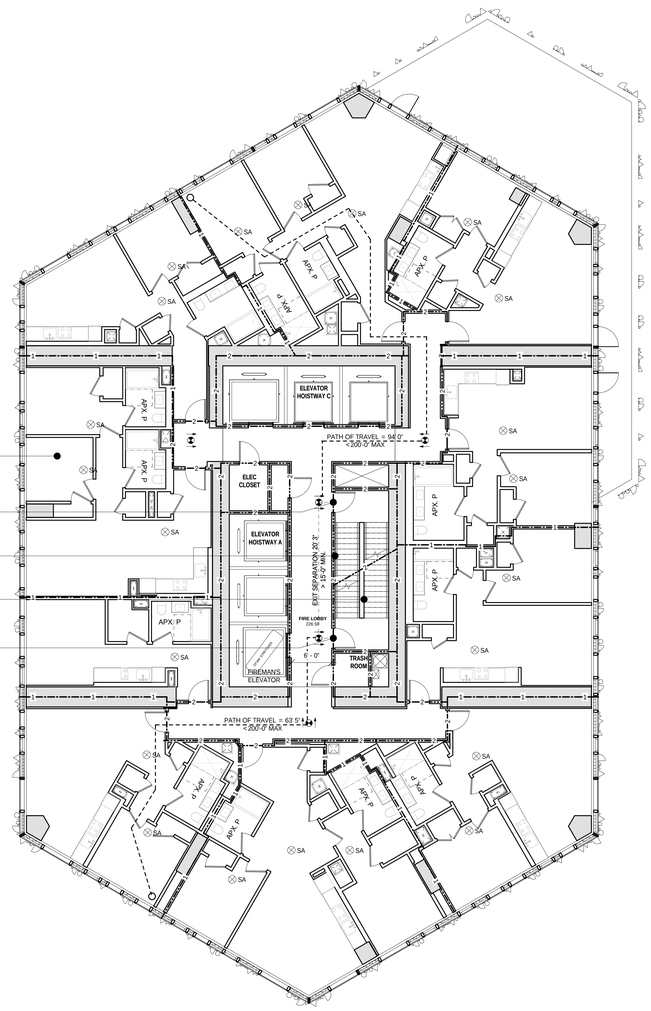
REGISTERED ARCHITECT JOSEPH K. PADDEN 029909 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

G-108.00

DEPT OF BLDGS 320014338 Job Number
B2000699450 Scan Code



RESIDENTIAL	R-2
AREA =	5192 SF
OCCUPANCY FACTOR =	200 SF
OCCUPANCY =	39

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	20

STAIR L	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	20

STAIR K	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	19

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	19

LEGEND

—·—1—·—	1 HR RATED
—·—2—·—	2 HR RATED
——3——	3 HR RATED
⊗SA	COMBINATION SMOKE AND CO ALARM

OCCUPANCY CALCULATION - LEVEL 15

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
RESIDENTIAL	5192 SF	200 SF	39
TOTAL OCCUPANCY LOAD =			39

EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED ((@0.2" PER PERSON)
2	72"	360

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
39	0.3"/PERSON	11.7"	88"

EGRESS GENERAL NOTES

1. GROUND FLOOR EGRESS SEPARATION AND FIRE PROOFING:

   SPRINKLERS PROVIDED THROUGHOUT LANDMARKED DIME SAVINGS BANK MAIN HALL. SYSTEM DESIGNED TO COMPLY WITH NFPA 13 AND INCORPORATED INTO LANDMARKED INTERIOR.

2. USE OF ANY EXISTING STAIRS SUBJECT TO DOB APPROVAL.

3. RATING OF EXISTING CONSTRUCTION SUBJECT TO DOB APPROVAL.

CARBON MONOXIDE DETECTOR NOTE

1. HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH §28.2-908 AND BE INSTALLED IN ACCORDANCE WITH §28.2-908.7.1.2.
2. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE DETECTORS MUST BE FILED WITH THE DIVISION OF CODE ENFORCEMENT HPD,. 10 DAYS AFTER INSTALLATION IS COMPLETE.

LEVEL 15 - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 1 | G-115.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 45TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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GACHOT
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NEW YORK, NY 10012
tel 646.666.0846

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JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.759-0540

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NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
186 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2325

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333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.223.6344

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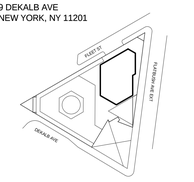
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
03/05/16	100% SD REASSESSMENT
05/05/15	DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

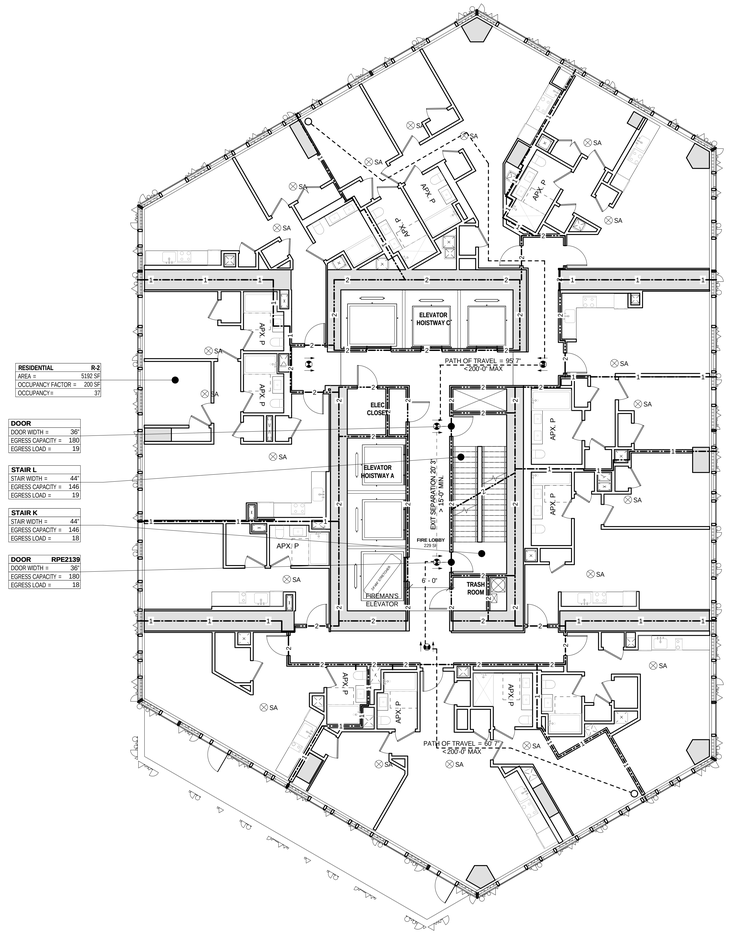
OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVELS 15-21

SEAL & SIGNATURE

REGISTERED ARCHITECT GREGORY A. PASQUARELLI 029499 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	G-115.00

DEPT OF BLDGS 320014338 Job Number
E-587546/2016 Scan Code



RESIDENTIAL	R-2
AREA =	5192 SF
OCCUPANCY FACTOR =	200 SF
OCCUPANCY =	37

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	19

STAIR L	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	19

STAIR K	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	18

DOOR	RPE2139
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	18

LEGEND

1	1 HR RATED
2	2 HR RATED
3	3 HR RATED
SA	COMBINATION SMOKE AND CO ALARM

OCCUPANCY CALCULATION - LEVEL 22

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
RESIDENTIAL	5192 SF	200 SF	37
TOTAL OCCUPANCY LOAD =			37

EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED ((@0.2" PER PERSON)
2	72"	360

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
37	0.3"/PERSON	11.5"	88"

EGRESS GENERAL NOTES

1. GROUND FLOOR EGRESS SEPARATION AND FIRE PROOFING:

   SPRINKLERS PROVIDED THROUGHOUT LANDMARKED DIME SAVINGS BANK MAIN HALL. SYSTEM DESIGNED TO COMPLY WITH NFPA 13 AND INCORPORATED INTO LANDMARKED INTERIOR.

2. USE OF ANY EXISTING STAIRS SUBJECT TO DOB APPROVAL.

3. RATING OF EXISTING CONSTRUCTION SUBJECT TO DOB APPROVAL.

CARBON MONOXIDE DETECTOR NOTE

1. HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH §28.2-908 AND BE INSTALLED IN ACCORDANCE WITH §28.2-908.7.1.2.
2. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE DETECTORS MUST BE FILED WITH THE DIVISION OF CODE ENFORCEMENT HPD, 10 DAYS AFTER INSTALLATION IS COMPLETE.

LEVEL 22 - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 1 | G-122.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
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tel 212.759.6540

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237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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tel 212.271.7000

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NEW YORK, NY 10010
tel 212.689.5389

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tel 212.334.2325

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WHITE PLAINS, NY 10604
tel 914.495.4290

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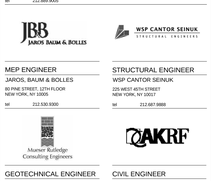
22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.223.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
03/05/16	100% SD REASSESSMENT
05/05/15	DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVELS 22-26

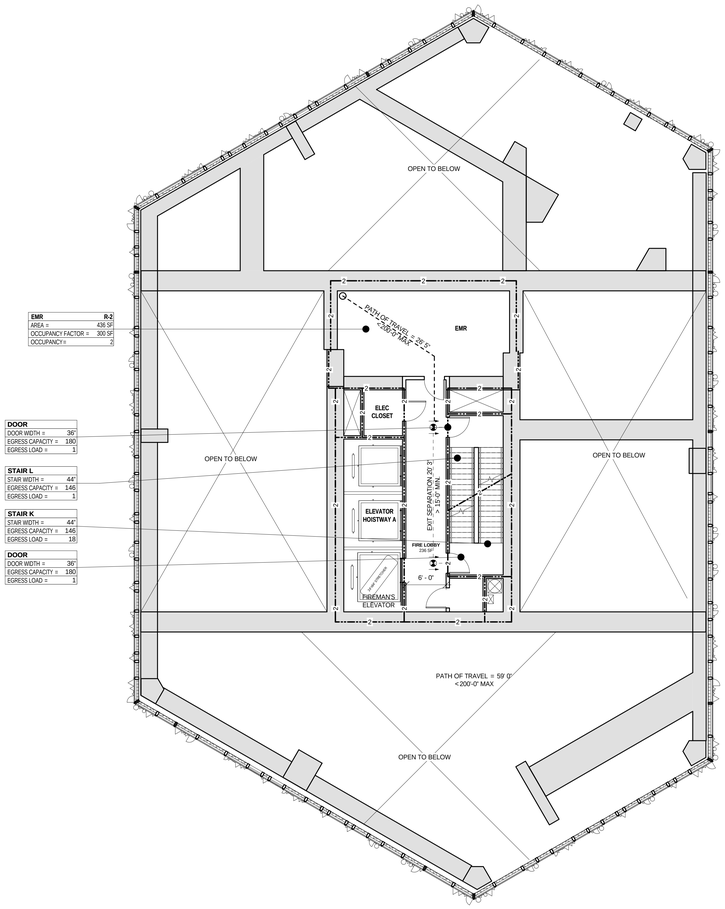
SEAL & SIGNATURE

REGISTERED ARCHITECT GREGG A. PASQUARELLI 029209 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338
DRAWING NUMBER	G-122.00

DEPT OF BLDGS 320014338 Job Number

FS4354400373 Scan Code



EMR	R-2
AREA =	436 SF
OCCUPANCY FACTOR =	300 SF
OCCUPANCY =	2

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	1

STAIR L	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	1

STAIR K	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	18

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	1

OCCUPANCY CALCULATION - LEVEL 27 MEZZ

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
EMR	436 SF	300 SF	2
TOTAL OCCUPANCY LOAD =			2

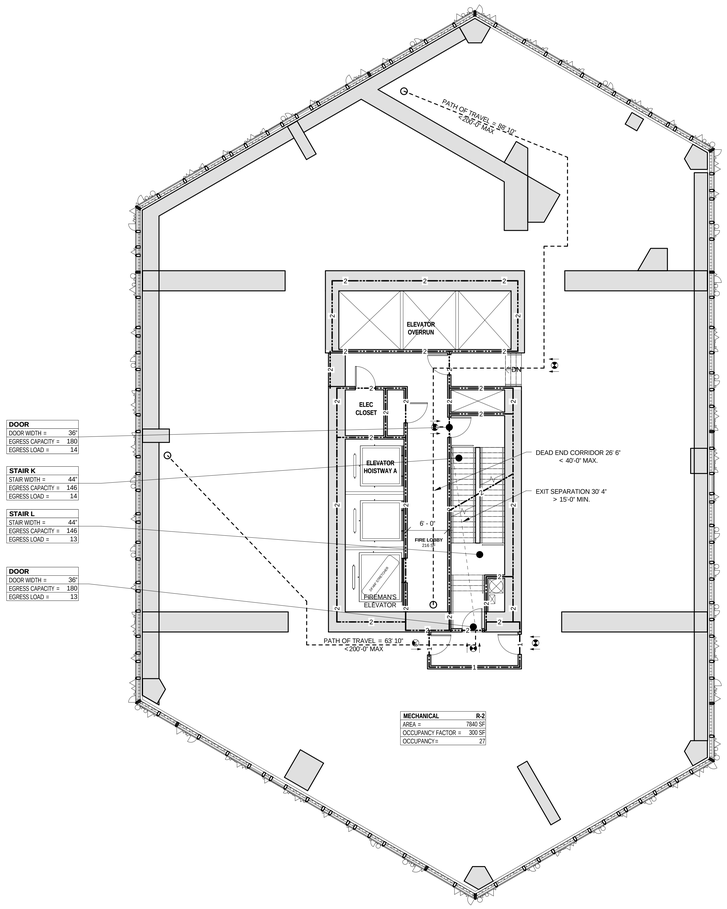
EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
2	72"	360

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
2	0.3"/PERSON	.6"	88"

LEVEL 27 MEZZ - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 2 | G-127.00



DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	14

STAIR K	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	14

STAIR L	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	13

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	13

MECHANICAL	R-2
AREA =	7840 SF
OCCUPANCY FACTOR =	300 SF
OCCUPANCY =	27

LEGEND

—1—	1 HR RATED
—2—	2 HR RATED
—3—	3 HR RATED
SA	COMBINATION SMOKE AND CO ALARM

EGRESS GENERAL NOTES

1. GROUND FLOOR EGRESS SEPARATION AND FIRE PROOFING:

   SPRINKLERS PROVIDED THROUGHOUT. LANDMARKED DIME SAVINGS BANK MAIN HALL. SYSTEM DESIGNED TO COMPLY WITH NFPA 13 AND INCORPORATED INTO LANDMARKED INTERIOR.

2. USE OF ANY EXISTING STAIRS SUBJECT TO DOB APPROVAL.

3. RATING OF EXISTING CONSTRUCTION SUBJECT TO DOB APPROVAL.

OCCUPANCY CALCULATION - LEVEL 27

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
MECHANICAL	7840 SF	300 SF	27
TOTAL OCCUPANCY LOAD =			27

EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
2	72"	360

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
27	0.3"/PERSON	8.1"	88"

LEVEL 27 - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 1 | G-127.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 45TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

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LIGHTING
BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
186 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
390 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10016
tel 212.689.5389

BURO HAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lothian TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
210 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
23 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.223.6344

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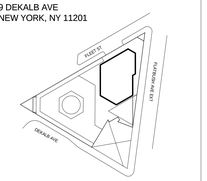
9 DEKALB AVE
NEW YORK, NY 11201



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DRAWING TITLE

OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVELS 27 / 27 MEZZ

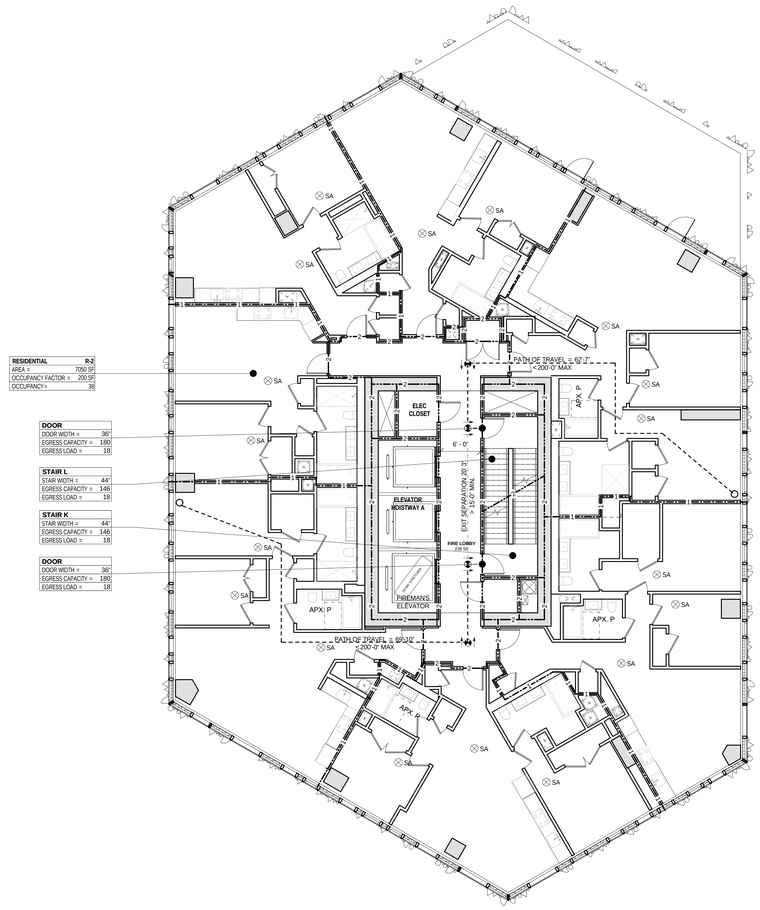
SEAL & SIGNATURE

REGISTERED ARCHITECT GREGORY A. PASQUARELLI DOMINIC STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	G-127.00

DEPT OF BLDGS320014338 Job Number

B 3200863387X Scan Code



RESIDENTIAL	R-2
AREA =	7050 SF
OCCUPANCY FACTOR =	200 SF
OCCUPANCY =	36

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	18

STAIR L	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	18

STAIR K	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	18

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	18

LEGEND

—·—1—·—	1 HR RATED
- - -2- - -	2 HR RATED
——3——	3 HR RATED
⊗SA	COMBINATION SMOKE AND CO ALARM

OCCUPANCY CALCULATION - LEVEL 28

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
RESIDENTIAL	7050 SF	200 SF	36
TOTAL OCCUPANCY LOAD =			36

EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
2	72"	360

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
36	0.3"/PERSON	10.8"	88"

EGRESS GENERAL NOTES

1. GROUND FLOOR EGRESS SEPARATION AND FIRE PROOFING:

   SPRINKLERS PROVIDED THROUGHOUT LANDMARKED DIME SAVINGS BANK MAIN HALL. SYSTEM DESIGNED TO COMPLY WITH NFPA 13 AND INCORPORATED INTO LANDMARKED INTERIOR.

2. USE OF ANY EXISTING STAIRS SUBJECT TO DOB APPROVAL.

3. RATING OF EXISTING CONSTRUCTION SUBJECT TO DOB APPROVAL.

CARBON MONOXIDE DETECTOR NOTE

1. HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH §28.2-908 AND BE INSTALLED IN ACCORDANCE WITH §28.2-908.7.1.2.
2. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE DETECTORS MUST BE FILED WITH THE DIVISION OF CODE ENFORCEMENT HPD, 10 DAYS AFTER INSTALLATION IS COMPLETE.

LEVEL 28 - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 2 | G-128.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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MRCE
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EAST HANOVER, NJ 07936
tel 646.625.3640

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THORNTON TOMASETTI
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NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINEERING
186 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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POOL
TRACE POOL DESIGN
310 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.223.6344

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9 DEKALB AVE
NEW YORK, NY 11201

SITE DIAGRAM

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NO.	DATE	REVISION

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DRAWING TITLE

OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVELS 28-33

SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASQUARELLI 022026 STATE OF NEW YORK

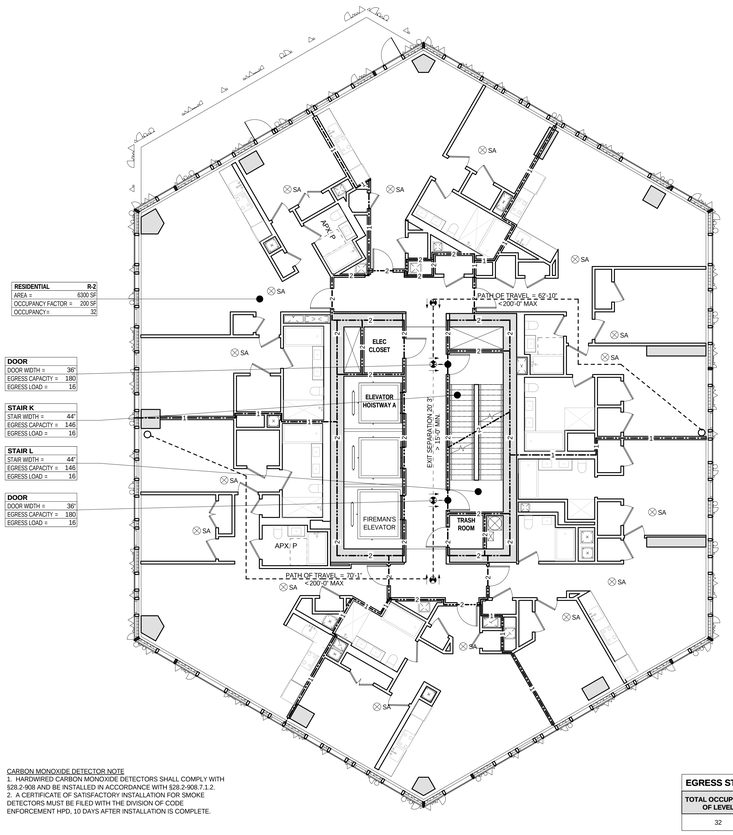
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

DRAWING NUMBER

G-128.00

DEPT OF BLDGS 320914338 Job Number

E340051000350 Scan Code



RESIDENTIAL	R-2
AREA =	6330 SF
OCCUPANCY FACTOR =	200 SF
OCCUPANCY =	32

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	16

STAIR K	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	16

STAIR L	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	16

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	16

CARBON MONOXIDE DETECTOR NOTE
1. HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH §28.2-908 AND BE INSTALLED IN ACCORDANCE WITH §28.2-908.7.1.2.
2. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE DETECTORS MUST BE FILED WITH THE DIVISION OF CODE ENFORCEMENT HPD, 10 DAYS AFTER INSTALLATION IS COMPLETE.

OCCUPANCY CALCULATION - LEVEL 40

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
RESIDENTIAL	6330 SF	200 SF	32
TOTAL OCCUPANCY LOAD =			32

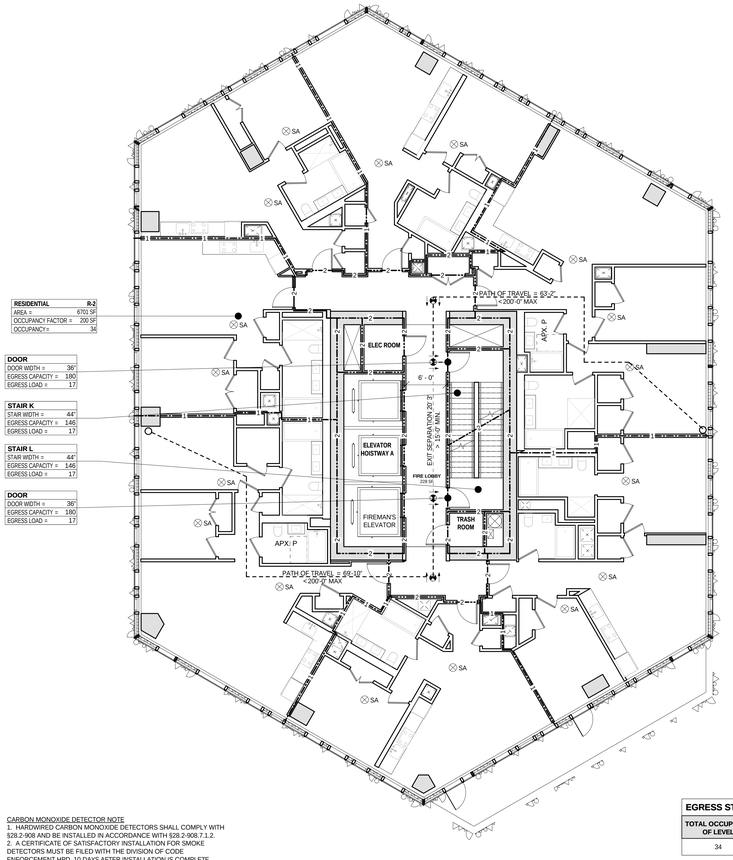
EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
2	72"	360

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
32	0.3"/PERSON	9.6"	88"

LEVEL 40 - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 3 | G-134.00



RESIDENTIAL	R-2
AREA =	6701 SF
OCCUPANCY FACTOR =	200 SF
OCCUPANCY =	34

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	17

STAIR K	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	17

STAIR L	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	17

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	17

CARBON MONOXIDE DETECTOR NOTE
1. HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH §28.2-908 AND BE INSTALLED IN ACCORDANCE WITH §28.2-908.7.1.2.
2. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE DETECTORS MUST BE FILED WITH THE DIVISION OF CODE ENFORCEMENT HPD, 10 DAYS AFTER INSTALLATION IS COMPLETE.

LEGEND

1	1 HR RATED
2	2 HR RATED
3	3 HR RATED
SA	COMBINATION SMOKE AND CO ALARM

EGRESS GENERAL NOTES

1. GROUND FLOOR EGRESS SEPARATION AND FIRE PROOFING:
   SPRINKLERS PROVIDED THROUGHOUT LANDMARKED DIME SAVINGS BANK MAIN HALL. SYSTEM DESIGNED TO COMPLY WITH NFPA 13 AND INCORPORATED INTO LANDMARKED INTERIOR.
2. USE OF ANY EXISTING STAIRS SUBJECT TO DOB APPROVAL.
3. RATING OF EXISTING CONSTRUCTION SUBJECT TO DOB APPROVAL.

OCCUPANCY CALCULATION - LEVEL 34

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
RESIDENTIAL	6701 SF	200 SF	34
TOTAL OCCUPANCY LOAD =			34

EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
2	72"	360

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
34	0.3"/PERSON	10.2"	88"

LEVEL 34 - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 1 | G-134.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
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51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

BOLD

LIGHTING
BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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tel 212.334.2025

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WHITE PLAINS, NY 10604
tel 914.495.4290

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22 CORTLAND STREET, 32TH FLOOR
NEW YORK, NY 10007
tel 212.223.6344

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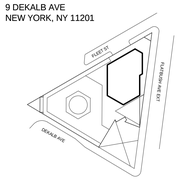

SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
02/05/16	100% SD REASSESSMENT			
05/05/15	DOB FILING SET			

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DRAWING TITLE

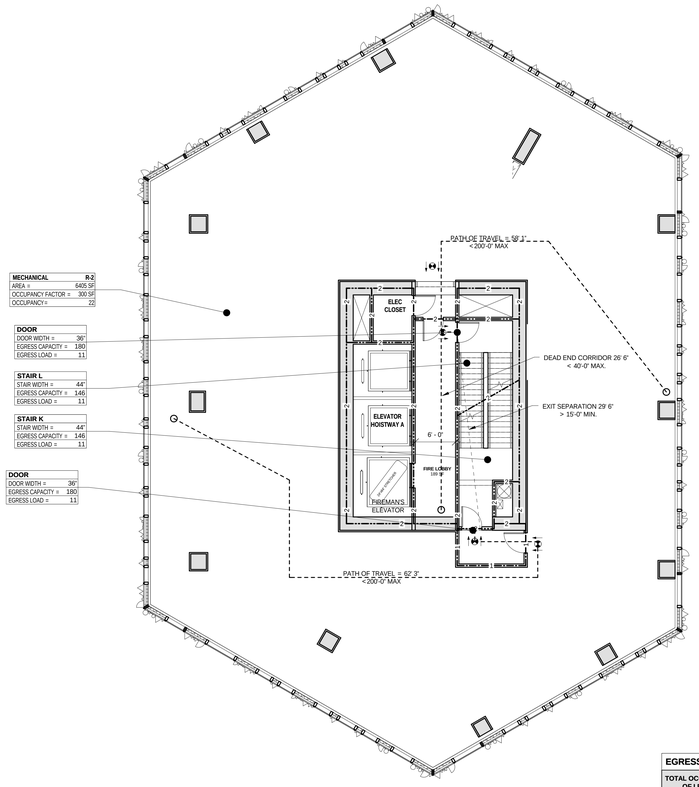
OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVELS 34-39 / 40-44

SEAL & SIGNATURE

REGISTERED ARCHITECT JESSICA A. PASQUARELLI 029292 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	G-134.00

DEPT OF BLDGS 320914338 Job Number
E1620973424 Scan Code



OCCUPANCY CALCULATION - LEVEL 50

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
MECHANICAL	6405 SF	300 SF	22
TOTAL OCCUPANCY LOAD =			22

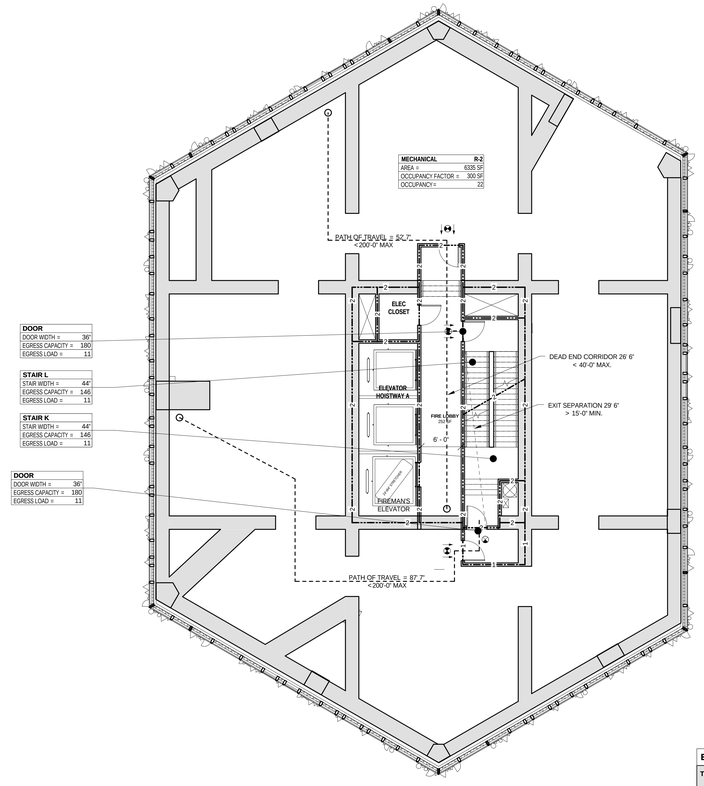
EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
2	72"	360

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
22	0.3"/PERSON	6.6"	88"

LEVEL 50 - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 3 | G-145.00



OCCUPANCY CALCULATION - LEVEL 49

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
MECHANICAL	6335 SF	300 SF	22
TOTAL OCCUPANCY LOAD =			22

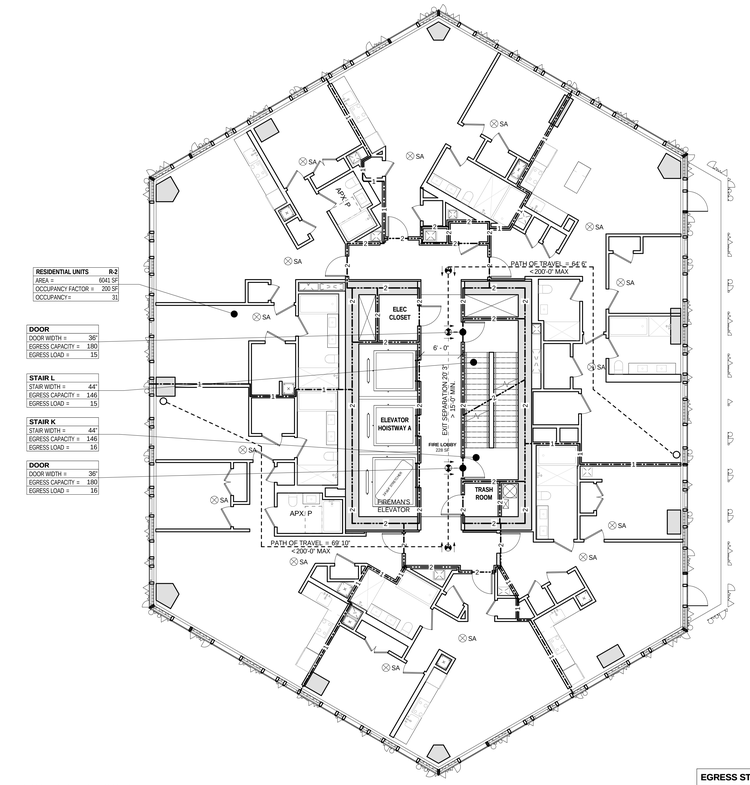
EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
2	72"	360

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
22	0.3"/PERSON	6.6"	88"

LEVEL 49 - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 2 | G-145.00



CARBON MONOXIDE DETECTOR NOTE
1. HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH §28.2-908 AND BE INSTALLED IN ACCORDANCE WITH §28.2-908.7.1.2.
2. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE DETECTORS MUST BE FILED WITH THE DIVISION OF CODE ENFORCEMENT HPD, 10 DAYS AFTER INSTALLATION IS COMPLETE.

LEGEND

1	1 HR RATED
2	2 HR RATED
3	3 HR RATED
SA	COMBINATION SMOKE AND CO ALARM

EGRESS GENERAL NOTES

1. GROUND FLOOR EGRESS SEPARATION AND FIRE PROOFING:

   SPRINKLERS PROVIDED THROUGHOUT LANDMARKED DIME SAVINGS BANK MAIN HALL. SYSTEM DESIGNED TO COMPLY WITH NFPA 13 AND INCORPORATED INTO LANDMARKED INTERIOR.

2. USE OF ANY EXISTING STAIRS SUBJECT TO DOB APPROVAL.

3. RATING OF EXISTING CONSTRUCTION SUBJECT TO DOB APPROVAL.

OCCUPANCY CALCULATION - LEVEL 45

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
RESIDENTIAL UNITS	6041 SF	200 SF	31
TOTAL OCCUPANCY LOAD =			31

EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
2	72"	360

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
31	0.3"/PERSON	9.3"	88"

LEVEL 45 - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 1 | G-145.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-6540

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237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7800

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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
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WHITE PLAINS, NY 10604
tel 914.495.4290

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METROPOLIS GROUP, INC.
22 CORTLAND STREET, 10TH FLOOR
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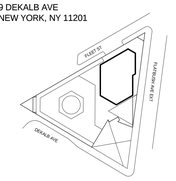

SITE DIAGRAM

07/15/16 DOB FILING SET

03/05/16 100% SD REASSESSMENT

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVELS 45-48 / 49 / 50

SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASQUARELLI 026526 STATE OF NEW YORK

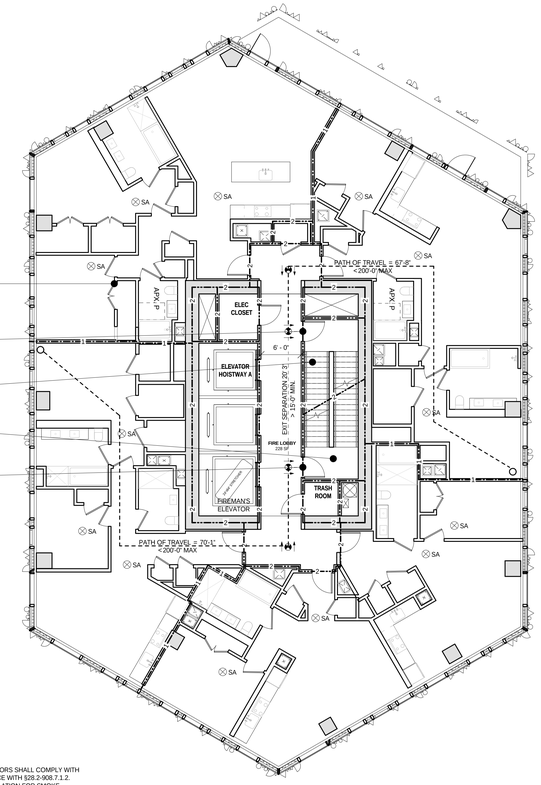
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

G-145.00

DEPT OF BLDGS 320014338 Job Number

E-58353/16040 Scan Code



RESIDENTIAL	R-2
AREA =	5402 SF
OCCUPANCY FACTOR =	200 SF
OCCUPANCY =	27

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	14

STAIR K	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	14

STAIR L	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	13

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	13

CARBON MONOXIDE DETECTOR NOTE
1. HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH §28.2-908 AND BE INSTALLED IN ACCORDANCE WITH §28.2-908.7.1.2.
2. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE DETECTORS MUST BE FILED WITH THE DIVISION OF CODE ENFORCEMENT HPD, 10 DAYS AFTER INSTALLATION IS COMPLETE.

OCCUPANCY CALCULATION - LEVEL 56

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
RESIDENTIAL	5402 SF	200 SF	27
TOTAL OCCUPANCY LOAD =			27

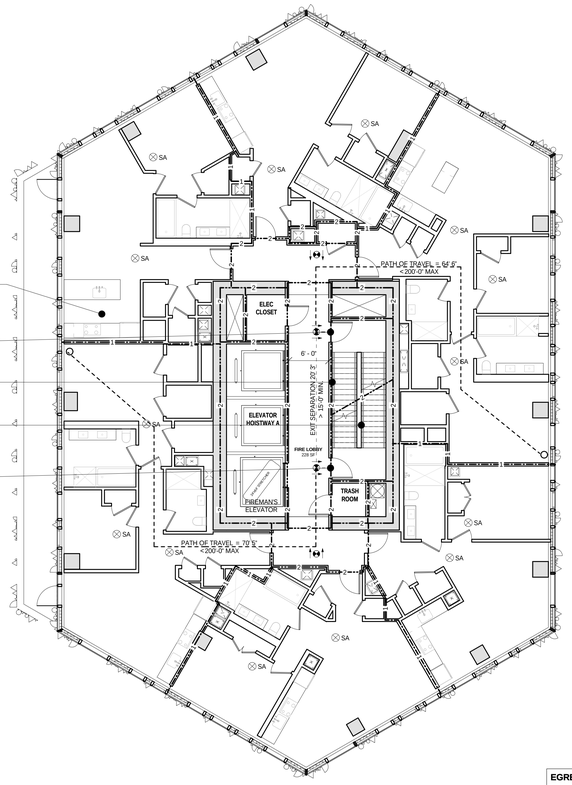
EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
2	72"	360

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
27	0.3"/PERSON	8.1"	88"

LEVEL 56 - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 3 | G-151.00



MECHANICAL	R-2
AREA =	6061 SF
OCCUPANCY FACTOR =	300 SF
OCCUPANCY =	21

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	11

STAIR L	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	11

STAIR K	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	10

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	10

CARBON MONOXIDE DETECTOR NOTE
1. HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH §28.2-908 AND BE INSTALLED IN ACCORDANCE WITH §28.2-908.7.1.2.
2. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE DETECTORS MUST BE FILED WITH THE DIVISION OF CODE ENFORCEMENT HPD, 10 DAYS AFTER INSTALLATION IS COMPLETE.

LEGEND

—·—1—·—	1 HR RATED
—·—·—2—·—·—	2 HR RATED
——3——	3 HR RATED
SA	COMBINATION SMOKE AND CO ALARM

EGRESS GENERAL NOTES

1. GROUND FLOOR EGRESS SEPARATION AND FIRE PROOFING:

   SPRINKLERS PROVIDED THROUGHOUT LANDMARKED DIME SAVINGS BANK MAIN HALL. SYSTEM DESIGNED TO COMPLY WITH NFPA 13 AND INCORPORATED INTO LANDMARKED INTERIOR.

2. USE OF ANY EXISTING STAIRS SUBJECT TO DOB APPROVAL.

3. RATING OF EXISTING CONSTRUCTION SUBJECT TO DOB APPROVAL.

OCCUPANCY CALCULATION - LEVEL 51

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
MECHANICAL	6061 SF	300 SF	21
TOTAL OCCUPANCY LOAD =			21

EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
2	72"	360

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
21	0.3"/PERSON	6.3"	88"

LEVEL 51 - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 1 | G-151.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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NEW YORK, NY 10122
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AKRF
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NEW YORK, NY 10016
tel 646.388.9828

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EAST HANOVER, NJ 07936
tel 646.625.3640

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THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
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NEW YORK, NY 10012
tel 646.666.0846

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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7800

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tel 212.689.5389

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NEW YORK, NY 10005
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TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.495.4290

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NEW YORK, NY 10007
tel 212.223.6344

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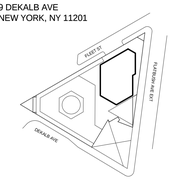
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET

03/05/16 100% SD REASSESSMENT

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVELS 51-55 / 56-60

SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASQUARELLI 026295 STATE OF NEW YORK

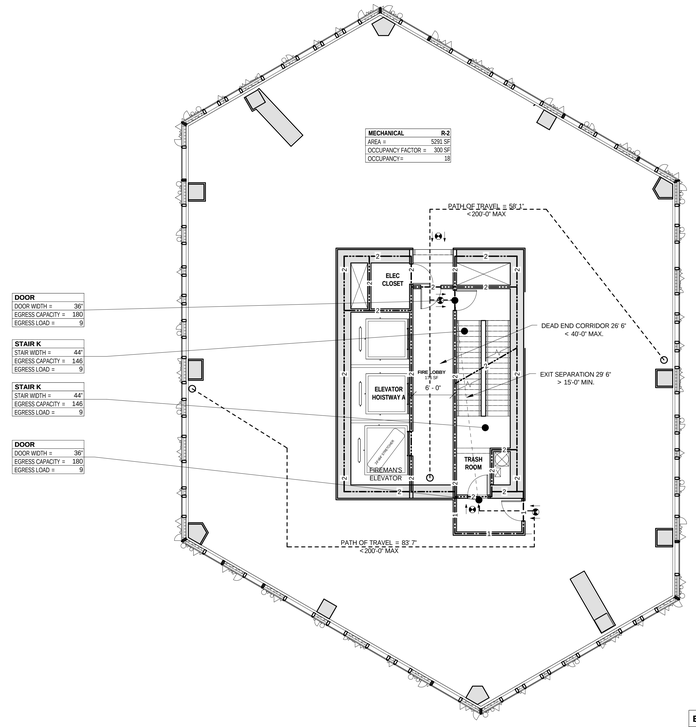
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

G-151.00

DEPT OF BLDGS 320914338 Job Number

M 1509665005 15 Sheet Code

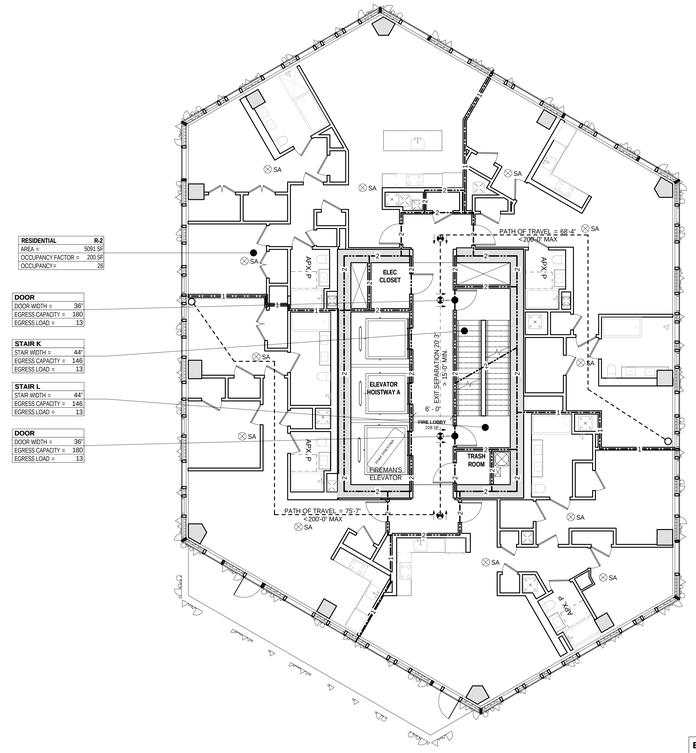


OCCUPANCY CALCULATION - LEVEL 65			
NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
MECHANICAL	5291 SF	300 SF	18
TOTAL OCCUPANCY LOAD =			18

EGRESS STAIR DOOR CALCULATION		
# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
2	72"	360

EGRESS STAIR CALCULATION			
TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
18	0.3"/PERSON	5.4"	88"

LEVEL 65 - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 3 | G-161.00



CARBON MONOXIDE DETECTOR NOTE
1. HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH §28.2-908 AND BE INSTALLED IN ACCORDANCE WITH §28.2-908.7.1.2.
2. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE DETECTORS MUST BE FILED WITH THE DIVISION OF CODE ENFORCEMENT HPD, 10 DAYS AFTER INSTALLATION IS COMPLETE.

LEGEND	
1	1 HR RATED
2	2 HR RATED
3	3 HR RATED
SA	COMBINATION SMOKE AND CO ALARM

EGRESS GENERAL NOTES

1. GROUND FLOOR EGRESS SEPARATION AND FIRE PROOFING:
   SPRINKLERS PROVIDED THROUGHOUT LANDMARKED DIME SAVINGS BANK MAIN HALL. SYSTEM DESIGNED TO COMPLY WITH NFPA 13 AND INCORPORATED INTO LANDMARKED INTERIOR.
2. USE OF ANY EXISTING STAIRS SUBJECT TO DOB APPROVAL.
3. RATING OF EXISTING CONSTRUCTION SUBJECT TO DOB APPROVAL.

OCCUPANCY CALCULATION - LEVEL 61			
NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
RESIDENTIAL	5091 SF	200 SF	26
TOTAL OCCUPANCY LOAD =			26

EGRESS STAIR DOOR CALCULATION		
# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
2	72"	360

EGRESS STAIR CALCULATION			
TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
26	0.3"/PERSON	7.8"	88"

LEVEL 61 - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 1 | G-161.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 60TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 39TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST, FLOOR 12A
NEW YORK, NY 10016
tel 212.759.6540

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LIGHTING
BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

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SIMPSON GUMPERTZ & HEGER
560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7800

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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.223.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201

SITE DIAGRAM

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03/05/16	100% SD REASSESSMENT			

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DRAWING TITLE

OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVELS 61-64 / 65

SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASQUARELLI 026292 STATE OF NEW YORK

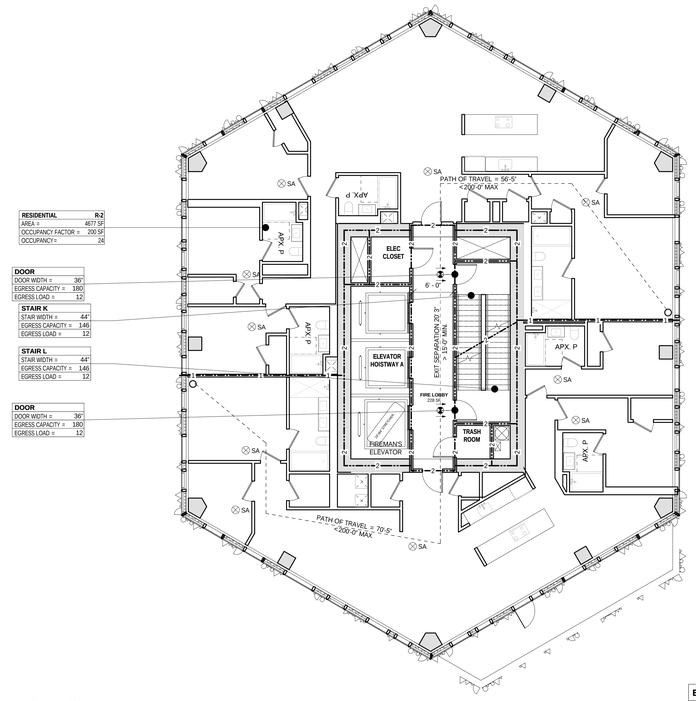
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

DRAWING NUMBER

G-161.00

DEPT OF BLDGS 320914338 Job Number

ENT 05443/16 Scan Code



RESIDENTIAL	R-2
AREA =	4677 SF
OCCUPANCY FACTOR =	200 SF
OCCUPANCY =	24

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	12

STAIR K	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	12

STAIR L	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	12

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	12

CARBON MONOXIDE DETECTOR NOTE
1. HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH §28.2-908 AND BE INSTALLED IN ACCORDANCE WITH §28.2-908.7.1.2.
2. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE DETECTORS MUST BE FILED WITH THE DIVISION OF CODE ENFORCEMENT HPD, 10 DAYS AFTER INSTALLATION IS COMPLETE.

OCCUPANCY CALCULATION - LEVEL 70

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
RESIDENTIAL	4677 SF	200 SF	24
TOTAL OCCUPANCY LOAD =			24

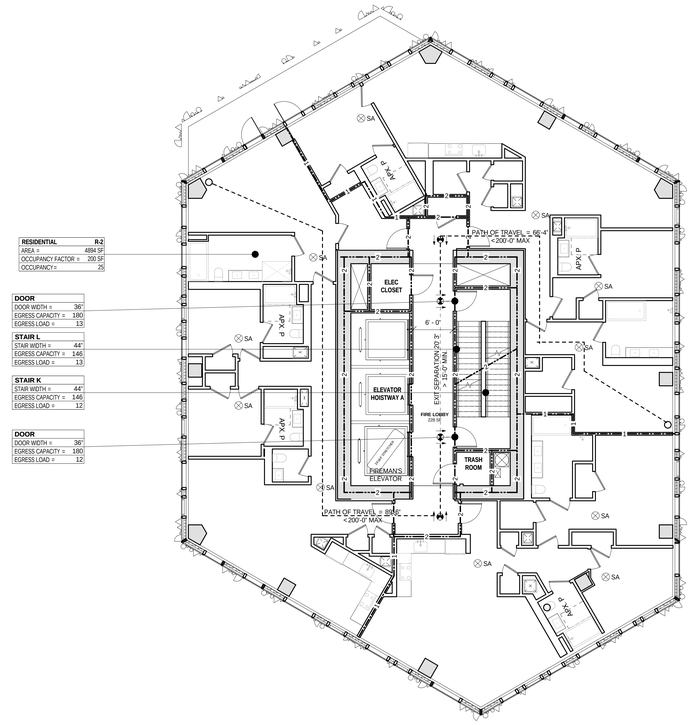
EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
2	72"	360

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
24	0.3"/PERSON	7.2"	88"

LEVEL 70 - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 4 | G-166.00



RESIDENTIAL	R-2
AREA =	4894 SF
OCCUPANCY FACTOR =	200 SF
OCCUPANCY =	25

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	13

STAIR L	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	13

STAIR K	
STAIR WIDTH =	44"
EGRESS CAPACITY =	146
EGRESS LOAD =	12

DOOR	
DOOR WIDTH =	36"
EGRESS CAPACITY =	180
EGRESS LOAD =	12

CARBON MONOXIDE DETECTOR NOTE
1. HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH §28.2-908 AND BE INSTALLED IN ACCORDANCE WITH §28.2-908.7.1.2.
2. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE DETECTORS MUST BE FILED WITH THE DIVISION OF CODE ENFORCEMENT HPD, 10 DAYS AFTER INSTALLATION IS COMPLETE.

OCCUPANCY CALCULATION - LEVEL 66

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
RESIDENTIAL	4894 SF	200 SF	25
TOTAL OCCUPANCY LOAD =			25

EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
2	72"	360

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
25	0.3"/PERSON	7.5"	88"

LEVEL 66 - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 1 | G-166.00

LEGEND

—·—1—·—	1 HR RATED
—·—2—·—	2 HR RATED
——3——	3 HR RATED
SA	COMBINATION SMOKE AND CO ALARM

EGRESS GENERAL NOTES

1. GROUND FLOOR EGRESS SEPARATION AND FIRE PROOFING:
   SPRINKLERS PROVIDED THROUGHOUT LANDMARKED DIME SAVINGS BANK MAIN HALL. SYSTEM DESIGNED TO COMPLY WITH NFPA 13 AND INCORPORATED INTO LANDMARKED INTERIOR.
2. USE OF ANY EXISTING STAIRS SUBJECT TO DOB APPROVAL.
3. RATING OF EXISTING CONSTRUCTION SUBJECT TO DOB APPROVAL.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 39TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

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LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

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SIMPSON GUMPERTZ & HEGER
560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7800

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.223.6344

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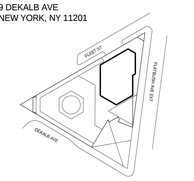
9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET

03/05/16 100% SD REASSESSMENT

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVELS 66-69 / 70-71

SEAL & SIGNATURE

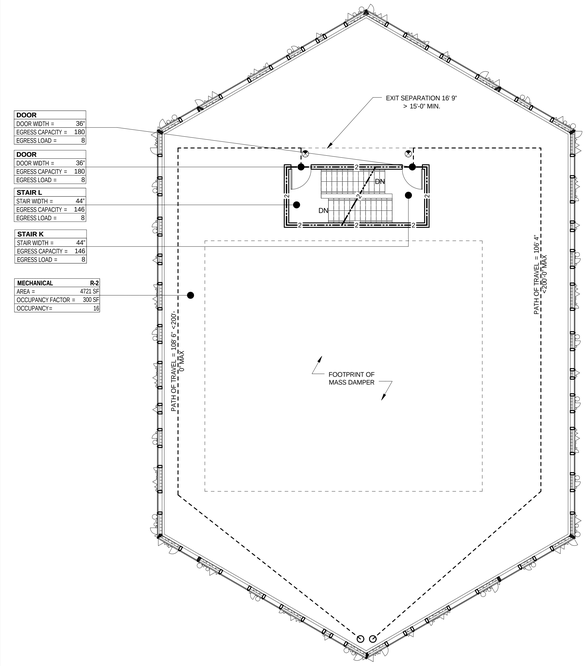
REGISTERED ARCHITECT JESSICA A. PASQUARELLA 026529 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

G-166.00

DEPT OF BLDGS 320014338 Job Number
E-5227/300505 Scan Code



DOOR
DOOR WIDTH = 36"
EGRESS CAPACITY = 180
EGRESS LOAD = 8

DOOR
DOOR WIDTH = 36"
EGRESS CAPACITY = 180
EGRESS LOAD = 8

STAIR L
STAIR WIDTH = 44"
EGRESS CAPACITY = 146
EGRESS LOAD = 8

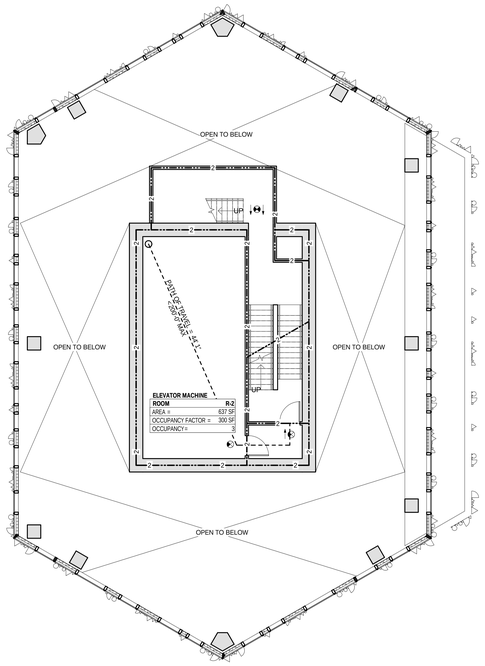
STAIR K
STAIR WIDTH = 44"
EGRESS CAPACITY = 146
EGRESS LOAD = 8

MECHANICAL	R-2
AREA =	4721 SF
OCCUPANCY FACTOR =	300 SF
OCCUPANCY=	16

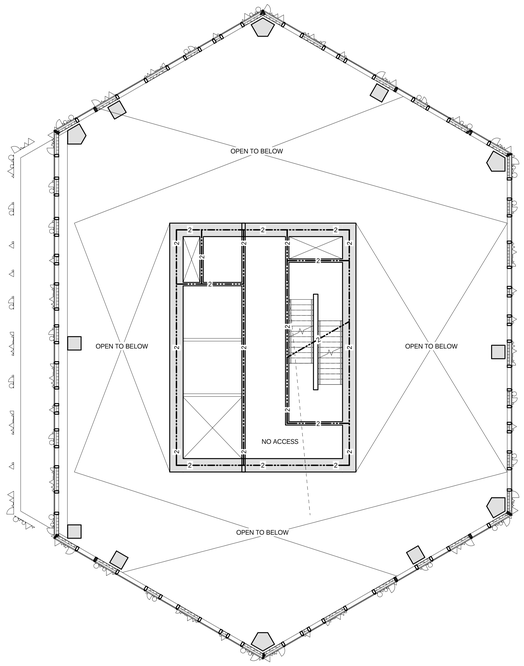
OCCUPANCY CALCULATION - ROOF

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
MECHANICAL	4721 SF	300 SF	16
TOTAL OCCUPANCY LOAD =			16

ROOF - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 4 | G-172.00



LEVEL 72 +32' - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 3 | G-172.00



EGRESS GENERAL NOTES

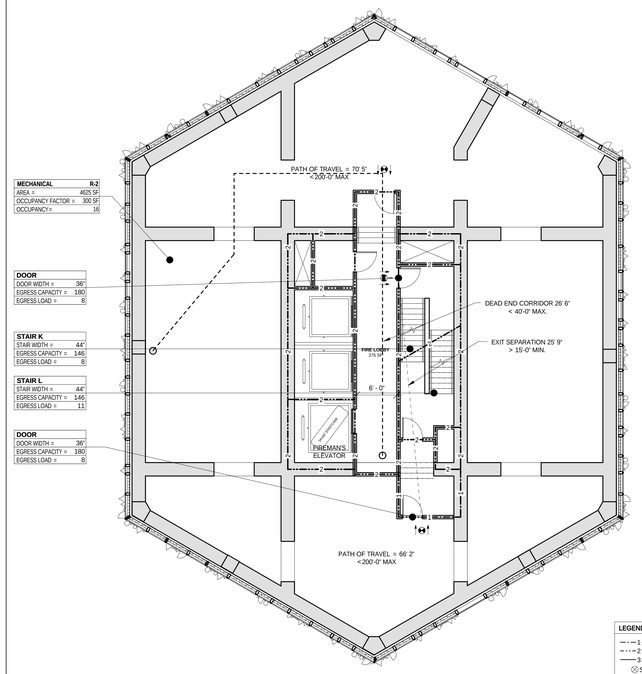
1. GROUND FLOOR EGRESS SEPARATION AND FIRE PROOFING:

   SPRINKLERS PROVIDED THROUGHOUT LANDMARKED DIME SAVINGS BANK MAIN HALL. SYSTEM DESIGNED TO COMPLY WITH NFPA 13 AND INCORPORATED INTO LANDMARKED INTERIOR.

2. USE OF ANY EXISTING STAIRS SUBJECT TO DOB APPROVAL.

3. RATING OF EXISTING CONSTRUCTION SUBJECT TO DOB APPROVAL.

LEVEL 72 +16' - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 2 | G-172.00



MECHANICAL	R-2
AREA =	4625 SF
OCCUPANCY FACTOR =	300 SF
OCCUPANCY=	16

DOOR
DOOR WIDTH = 36"
EGRESS CAPACITY = 180
EGRESS LOAD = 8

STAIR K
STAIR WIDTH = 44"
EGRESS CAPACITY = 146
EGRESS LOAD = 8

STAIR L
STAIR WIDTH = 44"
EGRESS CAPACITY = 146
EGRESS LOAD = 11

DOOR
DOOR WIDTH = 36"
EGRESS CAPACITY = 180
EGRESS LOAD = 8

LEGEND
1 HR RATED
2 HR RATED
3 HR RATED
SA COMBINATION SMOKE AND CO ALARM

EGRESS STAIR DOOR CALCULATION

# OF EGRESS DOORS PROVIDED ON LEVEL	CUMALTIVE WIDTH OF DOORS PROVIDED	# OF OCCUPANTS ABLE TO BE SERVED (@0.2" PER PERSON)
2	72"	360

OCCUPANCY CALCULATION - LEVEL 72

NAME	AREA	OCCUPANCY FACTOR (PER PERSON)	OCCUPANCY LOAD
MECHANICAL	4625 SF	300 SF	16
ELEVATOR MACHINE ROOM	637 SF	300 SF	3
TOTAL OCCUPANCY LOAD =			19

EGRESS STAIR CALCULATION

TOTAL OCCUPANCY OF LEVEL	REQUIRED EGRESS WIDTH PER OCCUPANT SERVED	MINIMUM WIDTH OF EGRESS STAIR REQUIRED BY CODE	WIDTH OF EGRESS STAIR PROVIDED
19	0.3"/PERSON	5.7"	88"

LEVEL 72 - OCCUPANCY AND EGRESS | 1/8" = 1'-0" | 1 | G-172.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS BAUM & BOLLES
MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers
GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda
VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti
FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.759.6560

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237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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POOL
TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.495.4290

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9 DEKALB AVE

9 DEKALB AVE
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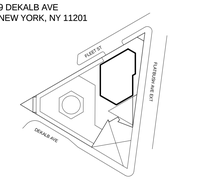

SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
02/05/16	100% SD REASSESSMENT

NO.	DATE	REVISION

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DRAWING TITLE

OCCUPANCY LOAD AND EGRESS ANALYSIS - LEVELS 72/ 72 +16' / 72 +32' / ROOF

SEAL & SIGNATURE

LICENSED ARCHITECT JOSHUA PASQUARELLA 026929 STATE OF NEW YORK

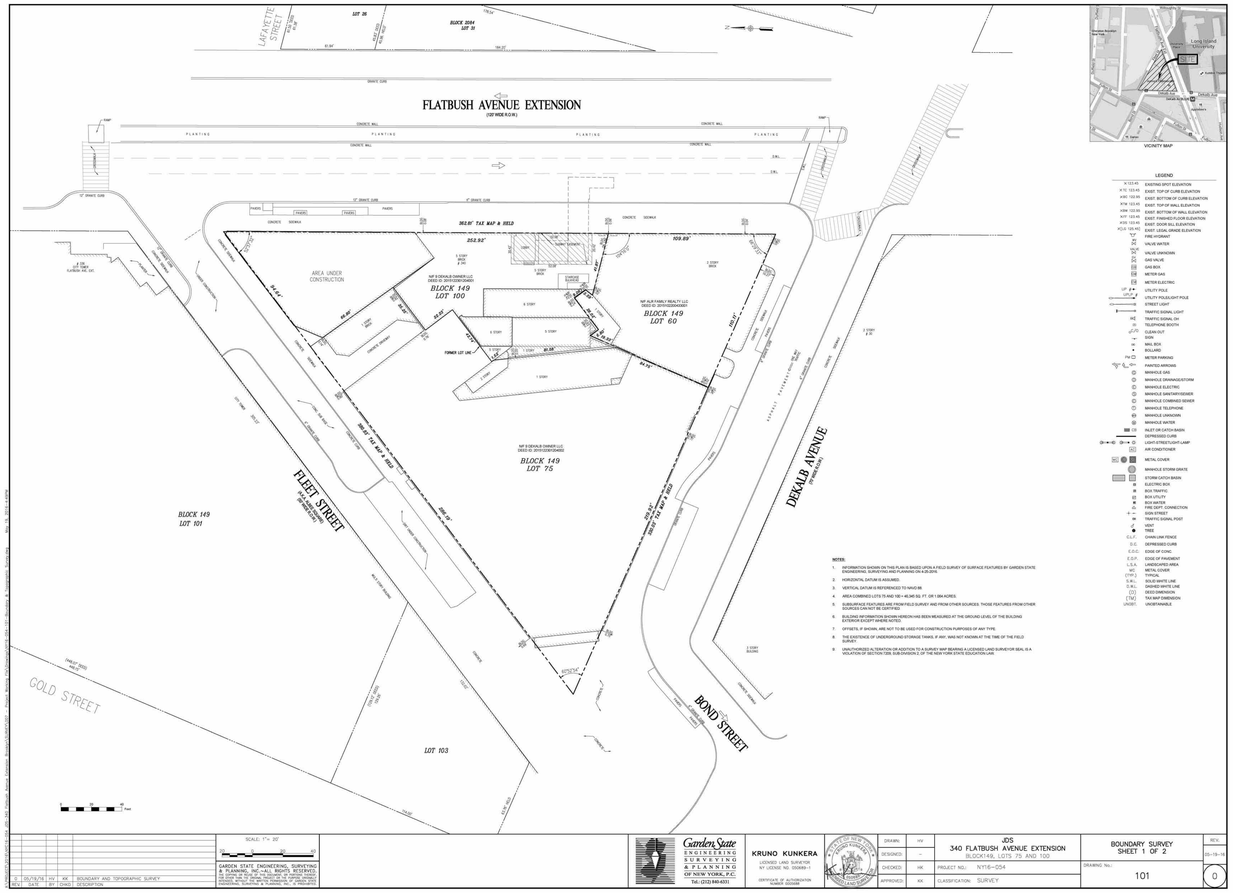
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

G-172.00

DEPT OF BLDGS 320014338 Job Number

E 5047243379E Scan Code



VICINITY MAP

LEGEND

- EXISTING SPOT ELEVATION
- EXIST. TOP OF CURB ELEVATION
- EXIST. BOTTOM OF CURB ELEVATION
- EXIST. TOP OF WALL ELEVATION
- EXIST. BOTTOM OF WALL ELEVATION
- EXIST. FINISHED FLOOR ELEVATION
- EXIST. DOOR SILL ELEVATION
- EXIST. LEGAL GRADE ELEVATION
- FIRE HYDRANT
- VALVE WATER
- VALVE UNKNOWN
- GAS VALVE
- GAS BOX
- METER GAS
- METER ELECTRIC
- UTILITY POLE
- UTILITY POLE/LIGHT POLE
- STREET LIGHT
- TRAFFIC SIGNAL LIGHT
- TRAFFIC SIGNAL OH
- TELEPHONE BOOTH
- CLEAN OUT
- SIGN
- MAIL BOX
- BOLLARD
- METER PARKING
- PAINTED ARROWS
- MANHOLE GAS
- MANHOLE DRAINAGE/STORM
- MANHOLE ELECTRIC
- MANHOLE SANITARY/SEWER
- MANHOLE COMBINED SEWER
- MANHOLE TELEPHONE
- MANHOLE UNKNOWN
- MANHOLE WATER
- INLET OR CATCH BASIN
- DEPRESSED CURB
- LIGHT-STREET/LIGHT-LAMP
- AIR CONDITIONER
- METAL COVER
- MANHOLE STORM GRATE
- STORM CATCH BASIN
- ELECTRIC BOX
- BOX TRAFFIC
- BOX UTILITY
- BOX WATER
- FIRE DEPT. CONNECTION
- SIGN STREET
- TRAFFIC SIGNAL POST
- HEDGE
- TREE
- CHAIN LINK FENCE
- DEPRESSED CURB
- EDGE OF CONC
- EDGE OF PAVEMENT
- LANDSCAPED AREA
- METAL COVER
- TYPICAL
- TITLE BOUNDARY LINE
- DEED DIMENSION
- TAX MAP DIMENSION
- UNDERGROUND

NOTES:

1. INFORMATION SHOWN ON THIS PLAN IS BASED UPON A FIELD SURVEY OF SURFACE FEATURES BY GARDEN STATE ENGINEERING, SURVEYING AND PLANNING ON 4-25-2016.
2. HORIZONTAL DATUM IS ASSUMED.
3. VERTICAL DATUM IS REFERENCED TO NAVD 88.
4. AREA COMBINED LOTS 75 AND 100 = 46,345 SQ. FT. OR 1.064 ACRES.
5. SUBSURFACE FEATURES ARE FROM FIELD SURVEY AND FROM OTHER SOURCES. THOSE FEATURES FROM OTHER SOURCES CAN NOT BE CERTIFIED.
6. BUILDING INFORMATION SHOWN HEREON HAS BEEN MEASURED AT THE GROUND LEVEL OF THE BUILDING EXTERIOR EXCEPT WHERE NOTED.
7. OFFSETS, IF SHOWN, ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES OF ANY TYPE.
8. THE EXISTENCE OF UNDERGROUND STORAGE TANKS, IF ANY, WAS NOT KNOWN AT THE TIME OF THE FIELD SURVEY.
9. UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.

0	05/15/16	HV	KK	BOUNDARY AND TOPOGRAPHIC SURVEY
REV	DATE	BY	CHKD	DESCRIPTION

SCALE: 1"= 20'

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Garden State ENGINEERING SURVEYING & PLANNING OF NEW YORK, P.C.
Tel.: (212) 840-6331

KRUNO KUNKERA
LICENSED LAND SURVEYOR
NY LICENSE NO. 050689-1
CERTIFICATE OF AUTHORIZATION NUMBER: 050689

DRAWN	HV	
DESIGNED	-	
CHECKED	HK	
APPROVED	KK	

JDS
340 FLATBUSH AVENUE EXTENSION
BLOCK149, LOTS 75 AND 100

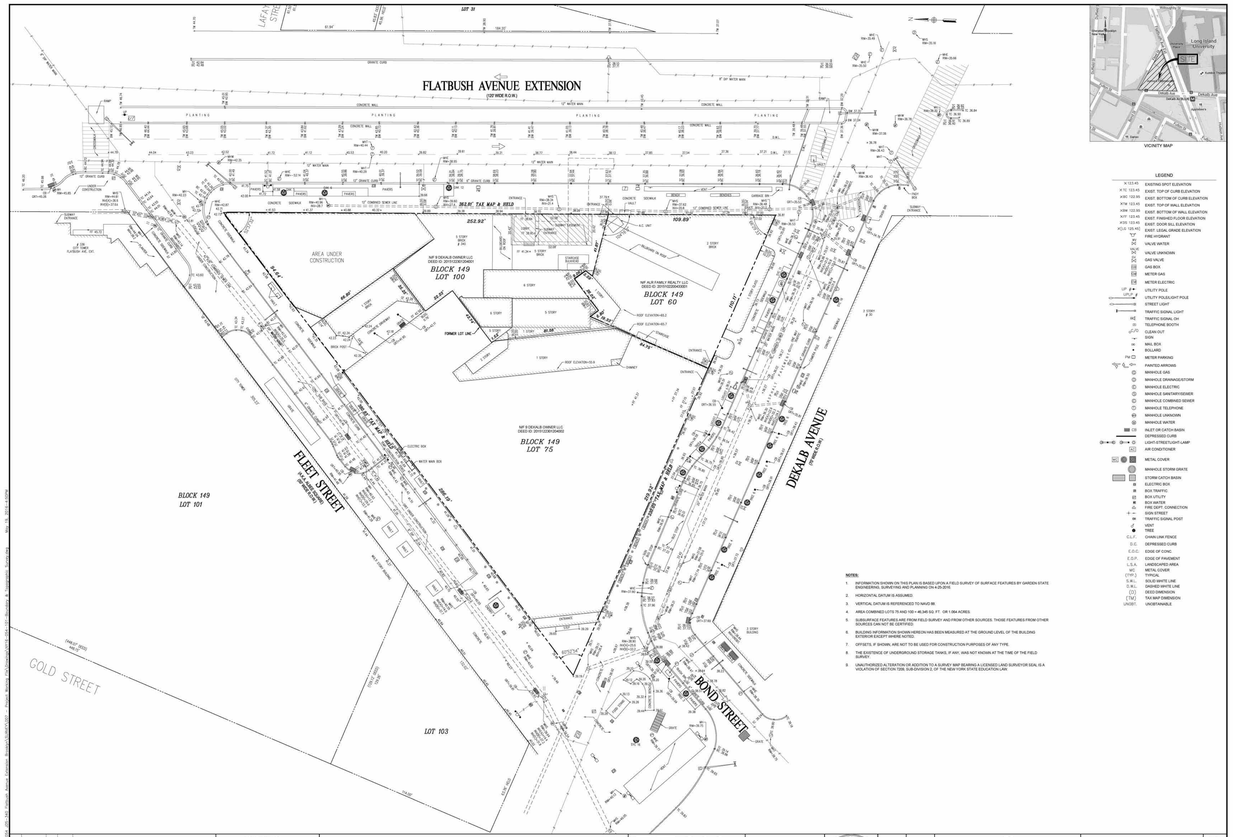
PROJECT NO.: NY16—054
CLASSIFICATION: SURVEY

BOUNDARY SURVEY
SHEET 1 OF 2

DRAWING No.: 101

REV.: 05-19-16

0



VICINITY MAP

LEGEND

- EXISTING SPOT ELEVATION
- EXIST. TOP OF CURB ELEVATION
- EXIST. BOTTOM OF CURB ELEVATION
- EXIST. TOP OF WALL ELEVATION
- EXIST. BOTTOM OF WALL ELEVATION
- EXIST. FINISHED FLOOR ELEVATION
- EXIST. DOOR SILL ELEVATION
- EXIST. LEGAL GRADE ELEVATION
- FIRE HYDRANT
- VALVE WATER
- VALVE UNKNOWN
- GAS VALVE
- GAS BOX
- METER GAS
- METER ELECTRIC
- UTILITY POLE
- UTILITY POLE/LIGHT POLE
- STREET LIGHT
- TRAFFIC SIGNAL LIGHT
- TRAFFIC SIGNAL OH
- TELEPHONE BOOTH
- CLEAN OUT
- SIGN
- MAIL BOX
- BOLLARD
- METER PARKING
- PAINTED ARROWS
- MANHOLE GAS
- MANHOLE DRAINAGE/STORM
- MANHOLE ELECTRIC
- MANHOLE SANITARY/SEWER
- MANHOLE COMBINED SEWER
- MANHOLE TELEPHONE
- MANHOLE UNKNOWN
- MANHOLE WATER
- INLET OR CATCH BASIN
- DEPRESSED CURB
- LIGHT-STREET/LIGHT-LAMP
- AIR CONDITIONER
- METAL COVER
- MANHOLE STORM GRATE
- STORM CATCH BASIN
- ELECTRIC BOX
- BOX TRAFFIC
- BOX UTILITY
- BOX WATER
- FIRE DEPT. CONNECTION
- SIGN STREET
- TRAFFIC SIGNAL POST
- HEDGE
- TREE
- CHAIN LINK FENCE
- DEPRESSED CURB
- EDGE OF CONC
- EDGE OF PAVEMENT
- LANDSCAPED AREA
- METAL COVER
- TYPICAL
- TITLE BOUNDARY LINE
- DEED DIMENSION
- TAX MAP DIMENSION
- UNDERGROUND

NOTES:

1. INFORMATION SHOWN ON THIS PLAN IS BASED UPON A FIELD SURVEY OF SURFACE FEATURES BY GARDEN STATE ENGINEERING, SURVEYING AND PLANNING ON 4-25-2016.
2. HORIZONTAL DATUM IS ASSUMED.
3. VERTICAL DATUM IS REFERENCED TO NAVD 88.
4. AREA COMBINED LOTS 75 AND 100 = 46,345 SQ. FT. OR 1.064 ACRES.
5. SUBSURFACE FEATURES ARE FROM FIELD SURVEY AND FROM OTHER SOURCES. THOSE FEATURES FROM OTHER SOURCES CAN NOT BE CERTIFIED.
6. BUILDING INFORMATION SHOWN HEREON HAS BEEN MEASURED AT THE GROUND LEVEL OF THE BUILDING EXTERIOR EXCEPT WHERE NOTED.
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0	05/15/16	HV	KK	BOUNDARY AND TOPOGRAPHIC SURVEY
REV	DATE	BY	CHKD	DESCRIPTION

SCALE: 1"= 20'

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JDS
340 FLATBUSH AVENUE EXTENSION
BLOCK149, LOTS 75 AND 100

PROJECT NO.: NY16—054
CLASSIFICATION: SURVEY

TOPOGRAPHIC SURVEY
SHEET 2 OF 2

DRAWING No.: 101

REV.: 05-19-16

0

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

ARCHITECT
ShoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.759.6540

LIGHTING
BOLD
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NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
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ENTEK ENGINNERING
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HACKENSACK, NJ 07601
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DEMO STRUCT. ENGINEER
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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10016
tel 212.689.5389

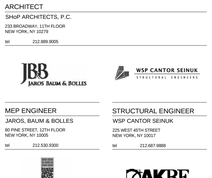
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

POOL
TRACE POOL DESIGN
210 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
04/21/16	FD / SOE DOB FILING SET
02/05/16	100% SD REASSESSMENT
05/05/15	DOB FILING SET
3/13/15	100% SCHEMATIC DESIGN

NO.	DATE	REVISION

THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH MAY NOT BE USED FOR OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR COMPLETION OF THIS PROJECT BY OTHERS.

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DRAWING TITLE

SITE SURVEY

SEAL & SIGNATURE

REGISTERED ARCHITECT OMEGA MASONRY STATE OF NEW YORK

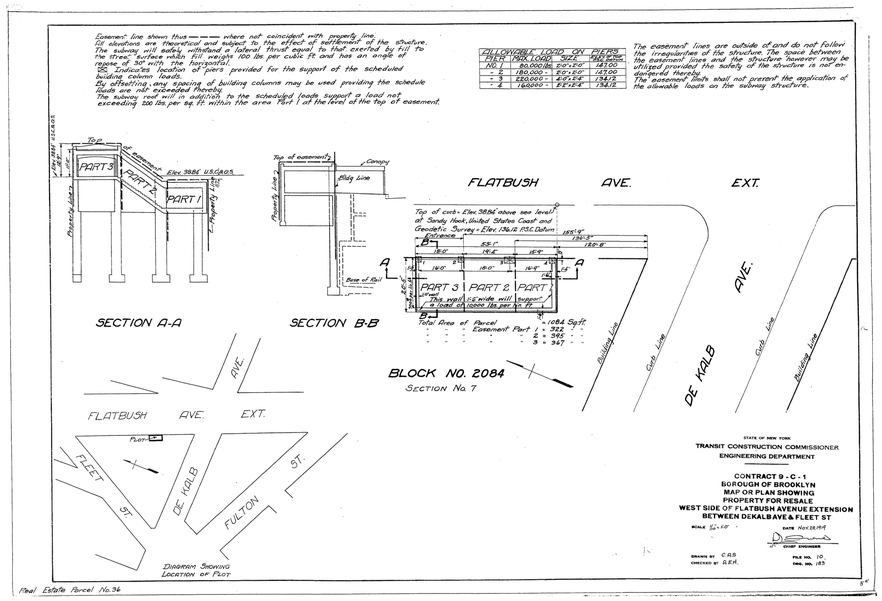
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

DRAWING NUMBER

Z-001.00

SITE SURVEY	AS NOTED	1 / Z-001.00

DEPT OF BLDGS 320914338 Job Number
E-587-991513 Scan Code



Real Estate Parcel No.36

MTA EASEMENT | NTS | 3 | Z-002.00

NOTES TO USERS

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NGS Information Services
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National Geodetic Survey
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Silver Spring, Maryland 20910-3282
(301) 713-3242

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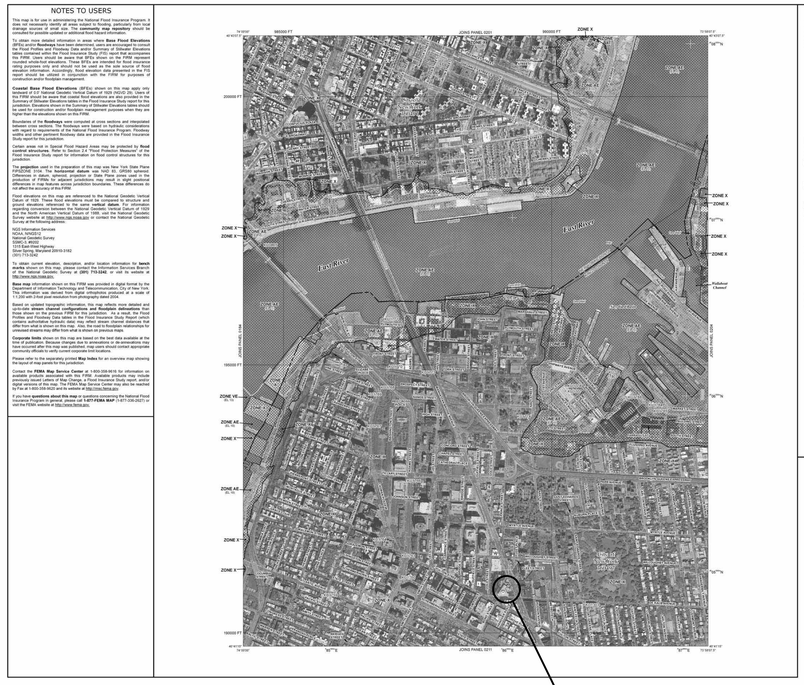


SITE

NOTE: THE BUILDING SITE IS NOT WITHIN THE FLOOD ZONE

LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A — No Base Flood Elevations determined.
ZONE AE — Base Flood Elevations determined.
ZONE AH — Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO — Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR — Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99 — Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V — Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE — Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X — Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
ZONE X — OTHERWISE PROTECTED AREAS (CBRS AREAS)
ZONE X — Areas determined to be outside the 0.2% annual chance floodplain.
Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHER FLOOD AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary

Boundary dividing Special Flood Hazard Areas (Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.

Base Flood Elevation line and value; elevation in feet*

Base Flood Elevation value; where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

- Cross-section line
- Transect line
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 1,000-meter Universal Transverse Mercator grid values, zone 18
- 5000-foot grid values: New York State Plane coordinate system, Long Island zone (FIPSZONE 3104), Lambert Conformal Conic projection
- Bench mark (see explanation in Notes to Users section of this FIRM panel)
- River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

NATIONAL FLOOD INSURANCE PROGRAM
JUNE 06, 1979

FLOOD INSURANCE RATE MAP EFFECTIVE
SEPTEMBER 5, 2007

FLOOD INSURANCE RATE MAP REVISED

For descriptions of revisions see Notice to Users page in the Flood Insurance Study report.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'
500 0 500 1000 FEET
150 0 150 300 METERS

PANEL 0203F

NFIP — NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CITY OF
NEW YORK
COUNTY OF
NEW YORK
(BRONX, RICHMOND, NEW YORK, QUEENS, AND KINGS COUNTIES)

PANEL 203 OF 457

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:
COMMUNITY — NUMBER 360497 — PANEL 0203 — SUFFIX F

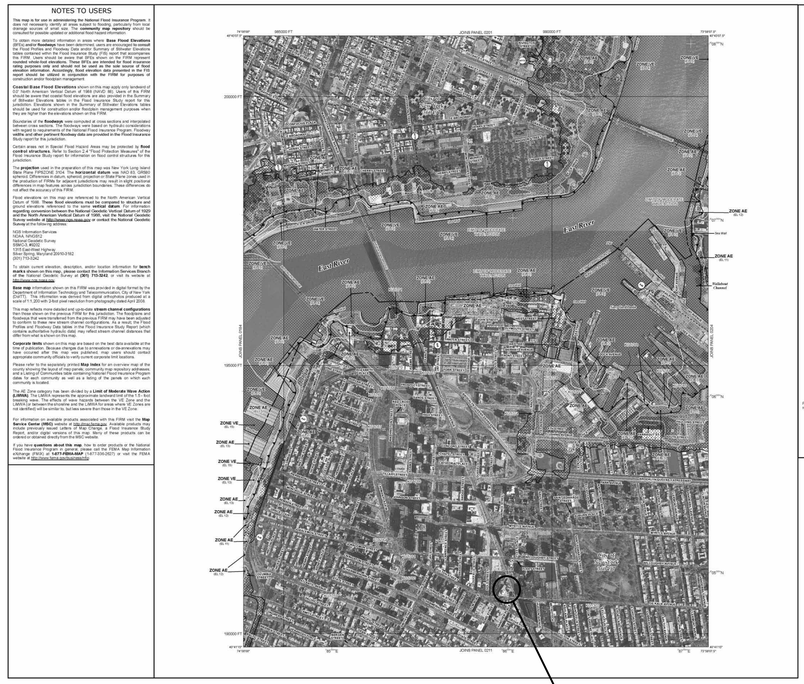
Notice to User: The **Map Number** shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
3604970203F

MAP REVISED
SEPTEMBER 5, 2007

Federal Emergency Management Agency

FEMA FIRM MAP (2007) | NTS | 2 | Z-002.00



SITE

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OTHER AREAS

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- Floodway boundary
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Boundary dividing Special Flood Hazard Areas (Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.

Limit of Moderate Wave Action

Base Flood Elevation line and value; elevation in feet*

Base Flood Elevation value; where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

- Cross-section line
- Transect line
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 1,000-meter Universal Transverse Mercator grid values, zone 18
- 5000-foot grid values: New York State Plane coordinate system, Long Island zone (FIPSZONE 3104), Lambert Conformal Conic projection
- Bench mark (see explanation in Notes to Users section of this FIRM panel)
- River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

NATIONAL FLOOD INSURANCE PROGRAM
JUNE 06, 1979

FLOOD INSURANCE RATE MAP EFFECTIVE
SEPTEMBER 5, 2007

FLOOD INSURANCE RATE MAP REVISED

For descriptions of revisions see Notice to Users page in the Flood Insurance Study report.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'
500 0 500 1000 FEET
150 0 150 300 METERS

PANEL 0203G

NFIP — NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CITY OF
NEW YORK
COUNTY OF
NEW YORK
(BRONX, RICHMOND, NEW YORK, QUEENS, AND KINGS COUNTIES)

PANEL 203 OF 457

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:
COMMUNITY — NUMBER 360497 — PANEL 0203 — SUFFIX G

PRELIMINARY
DECEMBER 5, 2013

Notice to User: The **Map Number** shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
3604970203G

MAP REVISED

Federal Emergency Management Agency

PFIRM (2013) | NTS | 1 | Z-002.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS BAUM & BOLLES
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JAROS, BAUM & BOLLES
45 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK
STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 HERTH AVENUE
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 39TH STREET 6TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

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AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

vda
VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti
FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

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237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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NEW YORK, NY 10018
tel 212.315.6400

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560 SEVENTH AVENUE, 20TH FLOOR
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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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TRACE POOL DESIGN
22 CORTLANDT STREET, 32TH FLOOR
NEW YORK, NY 10007
tel 914.455.4290

METROPOLIS GROUP
CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 32TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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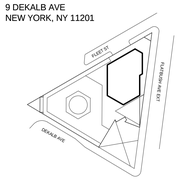

SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
04/21/16	FO / SOE DOB FILING SET
03/05/16	100% SD REASSESSMENT
05/05/15	DOB FILING SET
3/13/15	100% SCHEMATIC DESIGN

NO.	DATE	REVISION

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DRAWING TITLE

FLOOD INSURANCE RATE MAP / MTA EASEMENT

SEAL & SIGNATURE

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	Z-002.00

DEPT OF BLDGS 320914338 Job Number
B1535990013 Scan Code

FLOOR AREA SCHEDULE

	FLOOR NO.	USE	GROSS FA (sqft)	DEDUCTIONS (sqft)	ZONING FA (sqft)	
CELLAR	SUB CELLAR	RESIDENTIAL	24,081	24,081	0	
		COMMERCIAL	662	662	0	
		TOTAL	24,743	24,743	0	
	CELLAR	RESIDENTIAL	763	763	0	
		COMMERCIAL	44,651	44,651	0	
		TOTAL	45,414	45,414	0	
BASE	1	RESIDENTIAL	9,859	962	8,897	
		COMMERCIAL	34,063	1,876	32,187	
		TOTAL	43,922	2,838	41,084	
	2 / DSB 1ST MEZZANINE	RESIDENTIAL	620	21	599	
		COMMERCIAL	16,539	597	15,942	
		TOTAL	17,159	618	16,541	
	DSB 2ND MEZZANINE	COMMERCIAL	1,355	149	1,206	
	3 / DSB 3RD MEZZANINE	RESIDENTIAL	620	21	599	
		COMMERCIAL	15,367	553	14,814	
		TOTAL	15,987	574	15,413	
	4 / DSB LEVEL 2	RESIDENTIAL	620	21	599	
		COMMERCIAL	34,888	6,343	28,545	
		TOTAL	35,044	6,364	28,680	
TOWER	5	RESIDENTIAL	10,536	591	9,945	
	6	RESIDENTIAL	8,651	568	8,083	
	7	MECHANICAL	10,578	10,578	0	D.U. COUNT
	8	RESIDENTIAL	10,578	917	9,661	12
	9	RESIDENTIAL	10,578	917	9,661	12
	10	RESIDENTIAL	10,578	917	9,661	12
	11	RESIDENTIAL	10,578	917	9,661	12
	12	RESIDENTIAL	10,578	917	9,661	12
	13	RESIDENTIAL	10,578	917	9,661	12
	14	RESIDENTIAL	10,578	917	9,661	12
	15	RESIDENTIAL	9,631	852	8,779	10
	16	RESIDENTIAL	9,631	852	8,779	10
	17	RESIDENTIAL	9,631	852	8,779	10
	18	RESIDENTIAL	9,631	852	8,779	10
	19	RESIDENTIAL	9,631	852	8,779	10
	20	RESIDENTIAL	9,631	852	8,779	10
	21	RESIDENTIAL	9,631	852	8,779	10
	22	RESIDENTIAL	9,223	812	8,411	10
	23	RESIDENTIAL	9,223	812	8,411	10
	24	RESIDENTIAL	9,223	812	8,411	10
	25	RESIDENTIAL	9,223	812	8,411	10
	26	RESIDENTIAL	9,223	812	8,411	10
	27	MECHANICAL	9,223	9,223	0	0
	28	RESIDENTIAL	8,417	772	7,645	7
	29	RESIDENTIAL	8,417	772	7,645	7
	30	RESIDENTIAL	8,417	772	7,645	7
	31	RESIDENTIAL	8,417	772	7,645	7
	32	RESIDENTIAL	8,417	772	7,645	7
	33	RESIDENTIAL	8,417	772	7,645	7
	34	RESIDENTIAL	8,081	794	7,287	7
	35	RESIDENTIAL	8,081	794	7,287	7
	36	RESIDENTIAL	8,081	794	7,287	7
	37	RESIDENTIAL	8,081	794	7,287	7
	38	RESIDENTIAL	8,081	794	7,287	7
	39	RESIDENTIAL	8,081	794	7,287	7
	40	RESIDENTIAL	7,696	789	6,907	6
	41	RESIDENTIAL	7,696	789	6,907	6
	42	RESIDENTIAL	7,696	789	6,907	6
	43	RESIDENTIAL	7,696	789	6,907	6
	44	RESIDENTIAL	7,696	789	6,907	6
	45	RESIDENTIAL	7,286	729	6,557	6
	46	RESIDENTIAL	7,286	729	6,557	6
	47	RESIDENTIAL	7,286	729	6,557	6
	48	RESIDENTIAL	7,286	729	6,557	6
	49	MECHANICAL	7,286	7,286	0	0
	50	MECHANICAL	7,286	7,286	0	0
	51	RESIDENTIAL	6,877	713	6,164	6
	52	RESIDENTIAL	6,877	713	6,164	6
	53	RESIDENTIAL	6,877	713	6,164	6
	54	RESIDENTIAL	6,877	713	6,164	6
	55	RESIDENTIAL	6,877	713	6,164	6
	56	RESIDENTIAL	6,522	680	5,842	5
	57	RESIDENTIAL	6,522	680	5,842	5
	58	RESIDENTIAL	6,522	680	5,842	5
	59	RESIDENTIAL	6,522	680	5,842	5
	60	RESIDENTIAL	6,522	680	5,842	5
	61	RESIDENTIAL	6,166	643	5,523	4
	62	RESIDENTIAL	6,166	643	5,523	4
	63	RESIDENTIAL	6,166	643	5,523	4
	64	RESIDENTIAL	6,166	643	5,523	4
	65	MECHANICAL	6,166	6,166	0	0
	66	RESIDENTIAL	5,876	624	5,252	3
	67	RESIDENTIAL	5,876	624	5,252	3
	68	RESIDENTIAL	5,876	624	5,252	3
	69	RESIDENTIAL	5,876	624	5,252	3
	70	RESIDENTIAL	5,589	524	5,065	2
	71	RESIDENTIAL	5,589	524	5,065	1
	72	MECHANICAL	5,589	5,589	0	428
	ROOF	RESIDENTIAL	201	201	0	TOTAL

SUBTOTALS:			
RESIDENTIAL	536,480	73,010	463,470
COMMERCIAL	147,525	54,831	92,694
MECHANICAL	46,128	46,128	0

TOTALS			
	730,132		556,164

ZONING CALCULATIONS

	1. ZONING DISTRICT		
MAP 8d		C6-4.5 / SPECIAL DOWNTOWN BROOKLYN DISTRICT R10 EQUIVALENT	
	2. ZONING LOT		
	BLOCK 149 TAX LOT 100 AREA	46,347	
	3. USES		
ZR 22-10 ZR 32-10	A. USES PERMITTED	USE GROUPS 1-12	
ZR 101-11	B. SPECIAL GROUND FLOOR USE REGULATIONS	COMMERCIAL USES LISTED IN USE GROUPS 5, 6A, 6C, 6D, 7A, 7B, 8A, 8B, 8D, 9, 10, 11, 12A, 12B, AND 12C ARE REQUIRED ALONG FLATBUSH AVENUE EXTENSION AND DEKALB AVENUE LOBBIES AND SUBWAY ENTRANCES ARE PERMITTED	
	C. USES PROPOSED - GROUND FLOOR	USE GROUP 2 - RESIDENTIAL USE GROUP 6C - RETAIL USE GROUP 10 - RETAIL	COMPLIES COMPLIES COMPLIES
	D. USES PROPOSED - REMAINDER OF BUILDING	USE GROUP 2 - RESIDENTIAL USE GROUP 6 - OFFICE USE GROUP 6C - RETAIL USE GROUP 10 - RETAIL	COMPLIES COMPLIES COMPLIES COMPLIES
	4. FLOOR AREA		
ZR 101-21 ZR 23-15 ZR 35-31	A. MAXIMUM FAR 1) MAXIMUM COMMERCIAL FAR 2) MAXIMUM COMMUNITY FACILITY FAR 3) MAXIMUM RESIDENTIAL FAR 4) MAXIMUM MIXED USE FAR	 12 12 10 12	
	B. FLOOR AREA PERMITTED 1) MAXIMUM COMMERCIAL FLOOR AREA PERMITTED 2) MAXIMUM COMMUNITY FACILITY FLOOR AREA PERMITTED 3) MAXIMUM RESIDENTIAL FLOOR AREA PERMITTED 4) MAXIMUM MIXED USE FLOOR AREA PERMITTED	 46,347 X 12 = 556,164 sqft 46,347 X 12 = 556,164 sqft 46,347 X 10 = 463,470 sqft 46,347 X 12 = 556,164 sqft	
	C. FLOOR AREA PROPOSED COMMERCIAL FLOOR AREA RESIDENTIAL FLOOR AREA TOTAL FLOOR AREA PROPOSED	 92,694 sqft 463,470 sqft 556,164 sqft	
	5. DENSITY		
ZR 23-22	A. DWELLING UNIT FACTOR FOR R10 EQUIVALENT	790	
ZR 35-40 ZR 23-24	B. MAXIMUM RESIDENTIAL FLOOR AREA PERMITTED 1) MAXIMUM RESIDENTIAL FLOOR AREA PERMITTED 2) RESIDENTIAL FLOOR AREA PROVIDED 3) RESIDENTIAL FLOOR AREA PERMITTED FOR DWELLING UNIT CALCULATION	 463,470 sqft 463,470 sqft 463,470 sqft	
	C. MAXIMUM DWELLING UNITS PERMITTED	463,470 sqft / 790 sqft/unit = 587 UNITS	
	D. DWELLING UNITS PROPOSED	428	COMPLIES
	6. YARD REGULATIONS		
ZR 35-50	A. FRONT YARD	NO FRONT YARD REQUIRED IN AN R10 EQUIVALENT	COMPLIES
ZR 23-462	B. SIDE YARD	NO SIDE YARD REQUIRED IN AN R10 EQUIVALENT	COMPLIES
ZR 23-471	C. REAR YARD	NO REAR YARD REQUIRED IN AN R10 EQUIVALENT WHERE PORTIONS OF A SIDE LOT LINE WITHIN 100 FEET OF THE STREET LINE IT INTERSECTS COINCIDE WITH A SIDE LOT LINE OF AN ADJOINING ZONING LOT	COMPLIES; SEE 3 / Z-006
	7. HEIGHT AND SETBACK REGULATIONS		
ZR 101-223			COMPLIES WITH TOWER REGULATIONS; SEE 1 & 2 / Z-007
	8. LOT COVERAGE REQUIREMENTS FOR TOWERS		
ZR 101-223	40% MAXIMUM LOT COVERAGE OF RESIDENTIAL TOWERS OVER 150 FEET	22.8%	COMPLIES; SEE 1/Z-006
	9. SPECIAL STREET WALL LOCATION REGULATIONS		
ZR 101-41			COMPLIES WITH STREET WALL REGULATIONS; SEE 4 / Z-006
	10. TRANSPARENCY REQUIREMENTS		
ZR 101-12			COMPLIES WITH TRANSPARENCY REQUIREMENTS; SEE 5 & 6 / Z-007
	11. OFF-STREET PARKING AND OFF-STREET LOADING REGULATIONS		
ZR 36-21	A. MINIMUM PARKING REQUIREMENTS FOR COMMERCIAL USES	NO ACCESSORY OFF-STREET PARKING SPACES REQUIRED FOR COMMERCIAL USES IN GROUPS LISTED	COMPLIES
ZR 36-33 ZR 25-23 ZR 101-51	A. MINIMUM PARKING REQUIREMENTS FOR RESIDENTIAL USES 1) DWELLING UNITS PROVIDED 2) REQUIRED NUMBER OF ACCESSORY OFF-STREET PARKING SPACES 3) ACCESSORY OFF-STREET PARKING SPACES PROVIDED	 428 428 UNITS x 20% = 86 SPACES 86	 COMPLIES, SEE A-099 FOR CALCULATIONS
ZR 101-52	B. CURB CUT RESTRICTIONS		ZRD-1 FILED SEPARATELY SEE 1 / Z-005
ZR 101-53	C. RESERVOIR SPACES PROVIDED 1) ACCESSORY OFF-STREET PARKING SPACES PROVIDED 2) REQUIRED NUMBER OF RESERVOIR SPACES 3) RESERVOIR SPACES PROVIDED	 86 SPACES 86 SPACES x 10% = 9 RESERVOIR SPACES 9 RESERVOIR SPACES	 COMPLIES, SEE A-099 FOR CALCULATIONS
	12. ACCESSORY OFF-STREET LOADING REGULATIONS		
ZR 36-62	A. COMMERCIAL FLOOR AREA PROVIDED	60,780	FLOOR AREA OF PORTION OF BLDG CHANGED AFTER DEC 16, 1961, INCLUDES CELLAR SPACE USED FOR RETAIL.
	B. BERTH CALCULATION FIRST 25,000 sqft FLOOR AREA = 0 NEXT 15,000 sqft FLOOR AREA = 1 NEXT 60,000 sqft FLOOR AREA = 1 ANY ADDITIONAL FRACTION OF 150,000 sqft FLOOR AREA = 1 TOTAL BERTHS REQUIRED	 1 1 0 2	
	C. TOTAL BERTHS PROVIDED	2	COMPLIES, SEE A-101
	13. REQUIRED BICYCLE PARKING SPACES		
ZR 36-711	A. BICYCLE PARKING SPACE CALCULATION BICYCLE PARKING SPACES REQUIRED FOR RESIDENTIAL USE BICYCLE PARKING SPACES REQUIRED FOR COMMERCIAL AREA TOTAL BICYCLE PARKING SPACES REQUIRED	 428 UNITS / 2 UNITS/SPACE = 214 SPACES 60,780 sqft / 10,000 sqft/SPACE = 6 SPACES 220	
	B. BICYCLE PARKING SPACES PROVIDED	220	COMPLIES, SEE A-099
	14. STANDARD MINIMUM DISTANCE BETWEEN BUILDING SEGMENTS		
ZR 23-711			COMPLIES, SEE 1/Z-008
	15. STREET TREE PLANTING		
ZR 33-03	A. STREET TREE CALCULATION STREET WALL LENGTH REQUIRED STREET TREES (1 TREE PER 25') EXISTING TREES TO PROTECT PROPOSED TREES TO PLANT TREES TO PLANT OFF-SITE TREES TO PAY INTO TREE FUND	 854' 34 8 0 0 26	 COMPLIES, SEE 2/Z-008

LOT 75 EXISTING FLOOR AREA

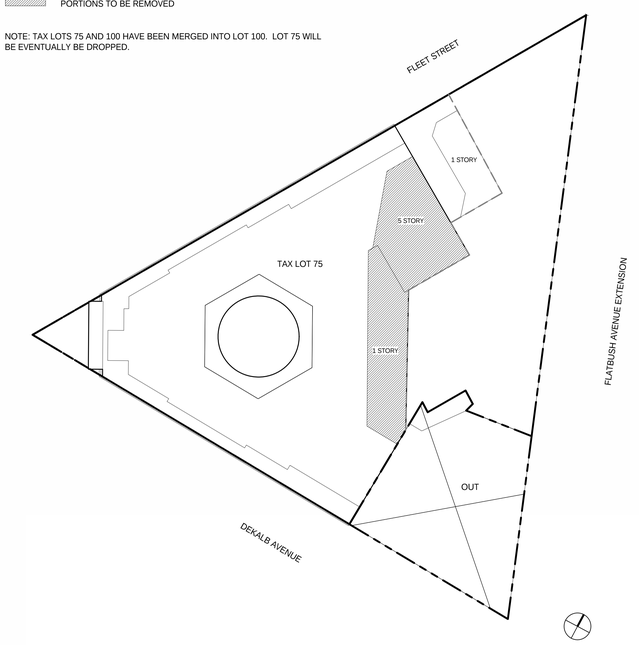
FLOOR NO.	EXISTING FA (sqft)	REMOVED FA (sqft)	REMAINING FA (sqft)
SUB CELLAR*	17,878	3,908	13,970
CELLAR*	31,177	3,377	27,800
1	29,390	4,897	24,493
DSB 1ST MEZZANINE	7,835	5,025	2,810
DSB 2ND MEZZANINE	7,835	6,480	1,355
DSB 3RD MEZZANINE	7,835	4,983	2,852
DSB LEVEL 2	18,790	3,956	14,834
CELLARS*	49,055	7,285	41,770
ABOVE GRADE	71,685	25,341	46,344
TOTAL	120,740	32,626	88,114

*FLOOR AREA FOR CELLAR AND SUBCELLAR NOT PREVIOUSLY FILED AND MEASURED FROM EXISTING DRAWINGS.

* FOR LOT 75 EXISTING BUILDING FILING DRAWINGS, SEE Z-012 AMD Z-013.

LOT 75 EXISTING BUILDING PORTIONS TO BE REMOVED

NOTE: TAX LOTS 75 AND 100 HAVE BEEN MERGED INTO LOT 100. LOT 75 WILL BE EVENTUALLY BE DROPPED.



LOT 75 BUILDING REMOVAL KEY PLAN | 1/32" = 1'-0" | 1 / Z-004.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 60TH STREET
NEW YORK, NY 10017
tel 212.497.8888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 39TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-0540

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LIGHTING
BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
166 AMOS STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5399

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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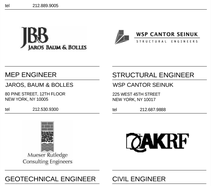
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
10/06/16	DOB FILING SET REV 2			
07/15/16	DOB FILING SET			
04/21/16	FD / SOE DOB FILING SET			
03/05/16	100% SD REASSESSMENT			
05/05/15	DOB FILING SET			
3/13/15	100% SCHEMATIC DESIGN			

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DRAWING TITLE

ZONING ANALYSIS

SEAL & SIGNATURE

REGISTERED ARCHITECT GREGORY L. PASQUARELLI STATE OF NEW YORK

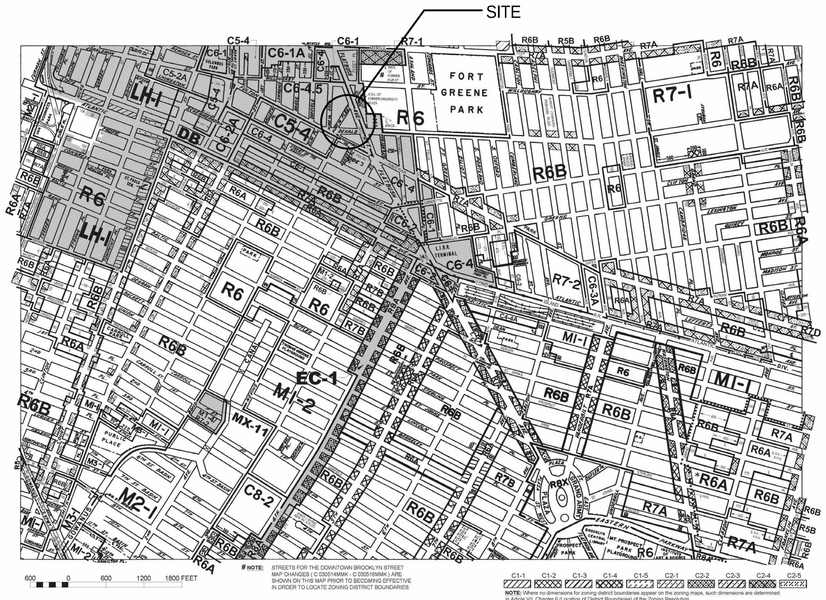
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

Z-004.00

DEPT OF BLDGS 320914338 Job Number

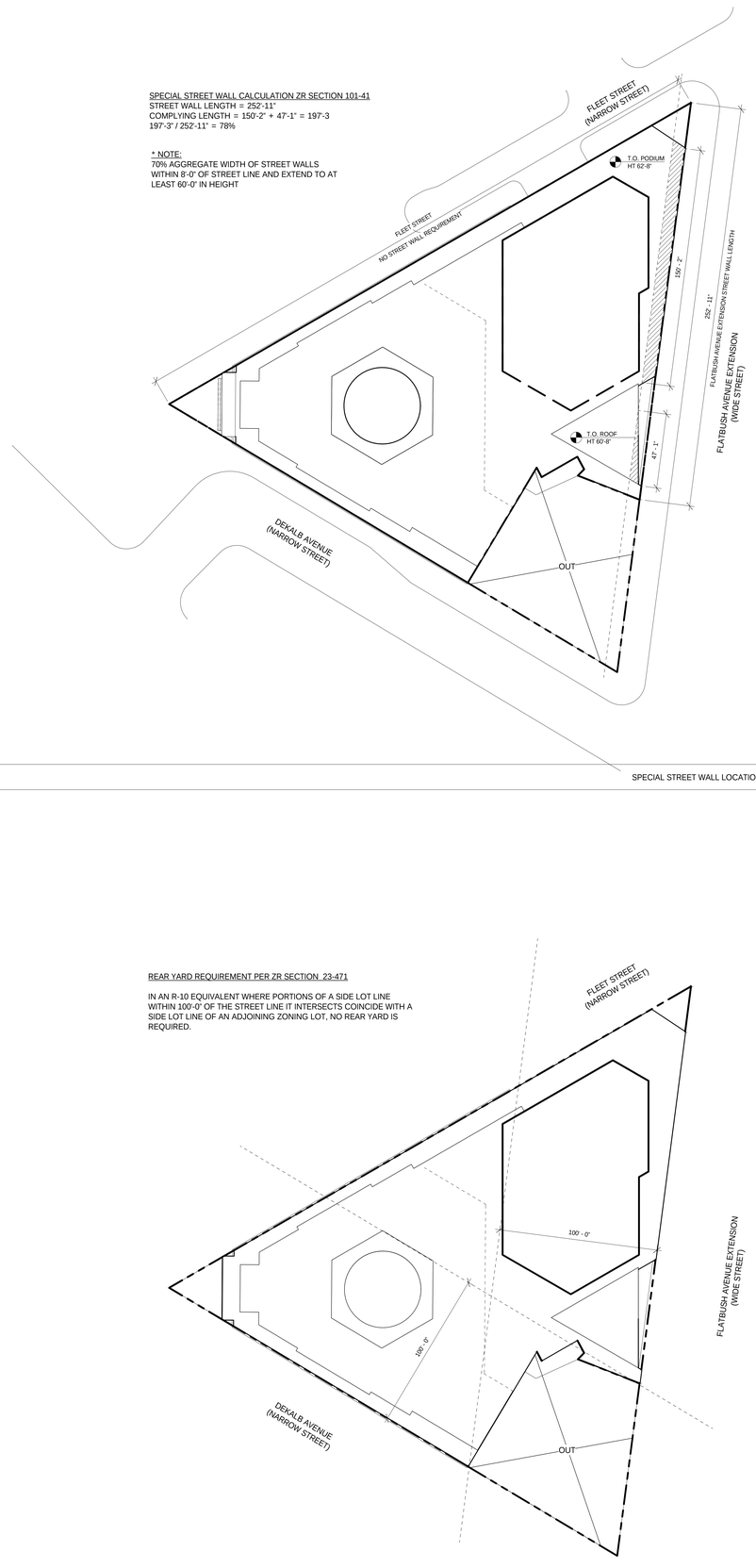
E-DOC7015566 Scan Code


SITE
FORT GREENE PARK
R6
R7-1
R7-2
R6B
R5B
R7A
R6A
R8B
R8A
R5D
C5-4
C6-1
C6-1A
C6-2
C6-4
C6-4A
C8-4
C8-4.5
LH-1
DB
EC-1
M1-2
MX-11
M2-1
C8-2
M1-1
MI-1
R6B
R6A
R7B
R7A
R6
R6B
R5B
R6A
R6B
R6A
R6B
R6A
R6

DEPT OF BLDGS 320914338 Job Number
E 5669683957 9 Scan Code

SPECIAL STREET WALL CALCULATION ZR SECTION 101-41
STREET WALL LENGTH = 252'-11"
COMPLYING LENGTH = 150'-2" + 47'-1" = 197'-3
197'-3" / 252'-11" = 78%

* NOTE:
70% AGGREGATE WIDTH OF STREET WALLS WITHIN 8'-0" OF STREET LINE AND EXTEND TO AT LEAST 60'-0" IN HEIGHT

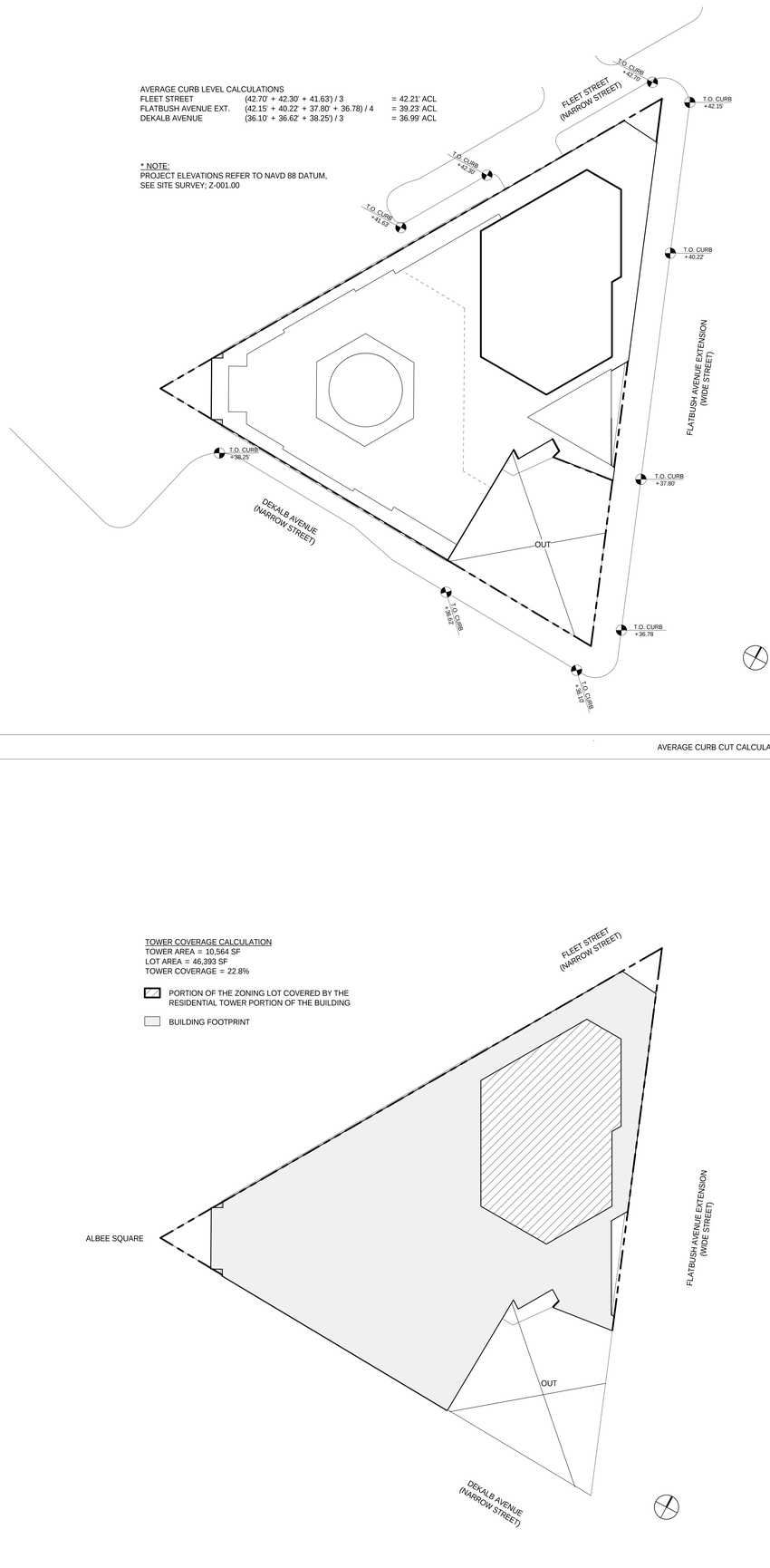


SPECIAL STREET WALL LOCATION REQUIREMENTS | 1/32" = 1'-0" | 4 | Z-006.00

AVERAGE CURB LEVEL CALCULATIONS

FLEET STREET	(42.70' + 42.30' + 41.63') / 3	= 42.21' ACL
FLATBUSH AVENUE EXT.	(42.15' + 40.22' + 37.80' + 36.78) / 4	= 39.23' ACL
DEKALB AVENUE	(36.10' + 36.62' + 38.25') / 3	= 36.99' ACL

* NOTE:
PROJECT ELEVATIONS REFER TO NAVD 88 DATUM, SEE SITE SURVEY; Z-001.00



AVERAGE CURB CUT CALCULATIONS | 1/32" = 1'-0" | 2 | Z-006.00

REAR YARD REQUIREMENT PER ZR SECTION 23-471

IN AN R-10 EQUIVALENT WHERE PORTIONS OF A SIDE LOT LINE WITHIN 100'-0" OF THE STREET LINE IT INTERSECTS COINCIDE WITH A SIDE LOT LINE OF AN ADJOINING ZONING LOT, NO REAR YARD IS REQUIRED.

REAR YARD REQUIREMENT DIAGRAM | 1/32" = 1'-0" | 3 | Z-006.00

TOWER COVERAGE CALCULATION
TOWER AREA = 10,564 SF
LOT AREA = 46,393 SF
TOWER COVERAGE = 22.8%

PORTION OF THE ZONING LOT COVERED BY THE RESIDENTIAL TOWER PORTION OF THE BUILDING

BUILDING FOOTPRINT

TOWER COVERAGE CALCULATIONS | 1/32" = 1'-0" | 1 | Z-006.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

ShoP

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

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237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEX ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7800

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lotrecs TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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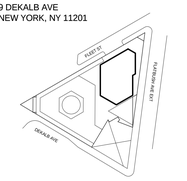
CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
04/21/16	FD / SOE DOB FILING SET			
02/05/16	100% SD REASSESSMENT			
05/09/15	DOB FILING SET			
3/13/15	100% SCHEMATIC DESIGN			

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DRAWING TITLE

ZONING ANALYSIS

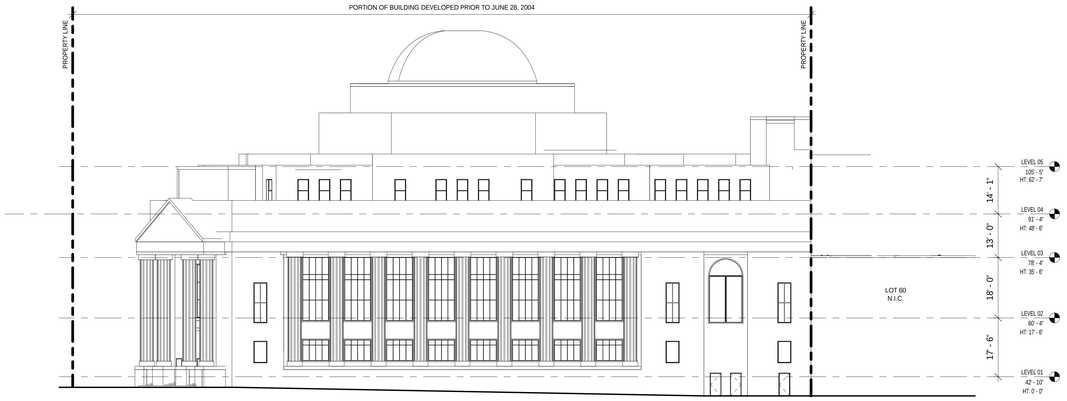
SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASQUARELLI 026292 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

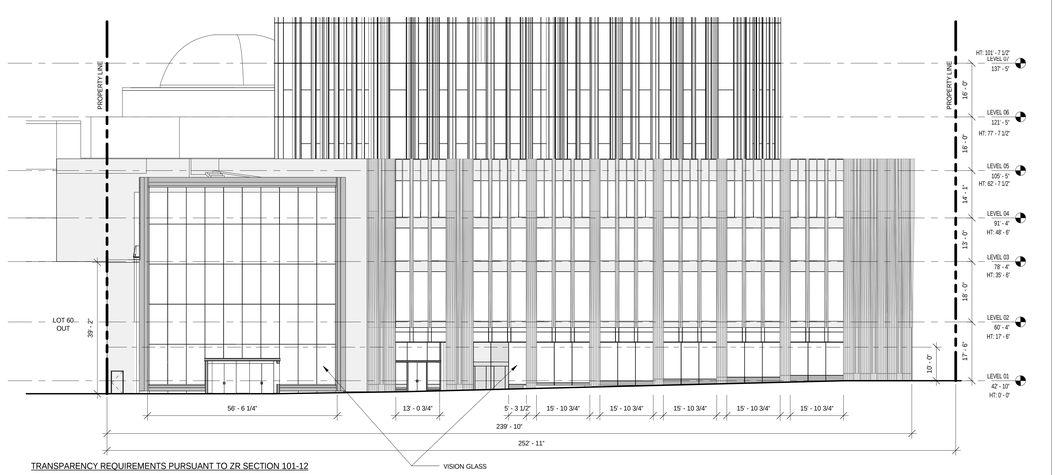
DRAWING NUMBER
Z-006.00

DEPT OF BLDGS 320014338 Job Number
E-5971626451E Sheet Code



NOTE:
PROJECT ELEVATIONS REFER TO NAVD 88 DATUM,
SEE SITE PLAN; 1/Z-005.00.

TRANPARENCY REQ. DEKALB AVENUE | 1/16" = 1'-0" | 6 | Z-007.00



TRANSPARENCY REQUIREMENTS PURSUANT TO ZR SECTION 101-12

REQUIRED TRANSPARENCY: > OR = 50% OF SURFACE AREA
SURFACE AREA < 10'-0" = 2,945 SF
TRANSPARENT SURFACE AREA = 1,629 SF
TRANSPARENCY = 55.3%

NOTE:
PROJECT ELEVATIONS REFER TO NAVD 88 DATUM,
SEE SITE PLAN; 1/Z-005.00

TRANSPARENCY REQ. FLATBUSH AVE EXT | 1/16" = 1'-0" | 5 | Z-007.00

ZONING AXONOMETRIC - NORTHWEST | 1" = 50'-0" | 4 | Z-007.00

ZONING AXONOMETRIC - SOUTHEAST | 1" = 50'-0" | 3 | Z-007.00

* NOTE:
PROJECT ELEVATIONS REFER TO NAVD 88 DATUM, SEE SITE PLAN; Z-005.00

SECTION LOOKING SOUTH | 1/64" = 1'-0" | 2 | Z-007.00

* NOTE:
PROJECT ELEVATIONS REFER TO NAVD 88 DATUM, SEE SITE PLAN; Z-005.00

SECTION LOOKING WEST | 1/64" = 1'-0" | 1 | Z-007.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA
JAN HIRD POKORNY ASSOCIATES
HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6560

BOLD

LIGHTING
BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10016
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lothron TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
103 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201

SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
04/21/16	FD / SOE DOB FILING SET			
02/05/16	100% SD REASSESSMENT			
05/05/15	DOB FILING SET			
3/13/15	100% SCHEMATIC DESIGN			

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DRAWING TITLE

ZONING ANALYSIS

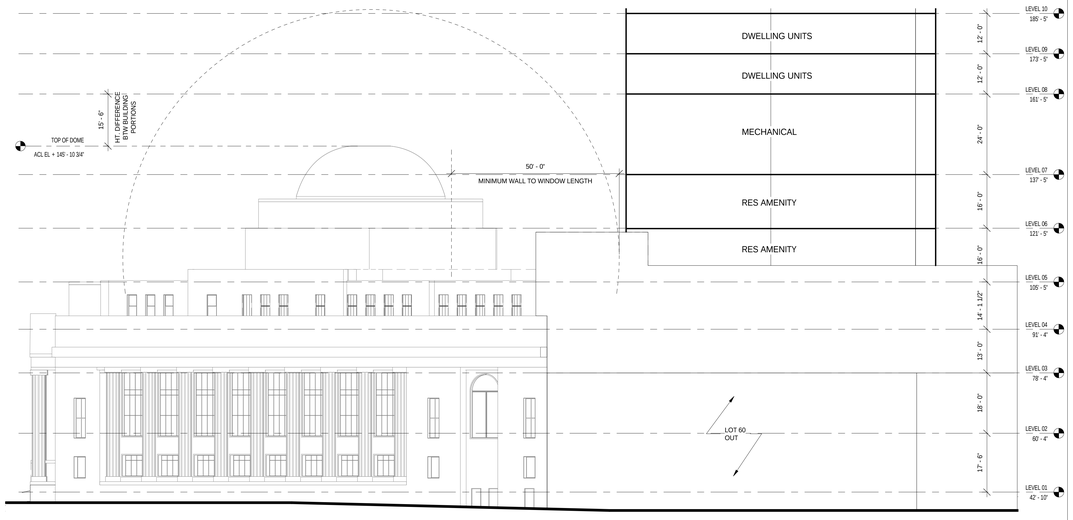
SEAL & SIGNATURE

REGISTERED ARCHITECT
GREGORY A. PASQUARELLI
029008
STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	Z-007.00

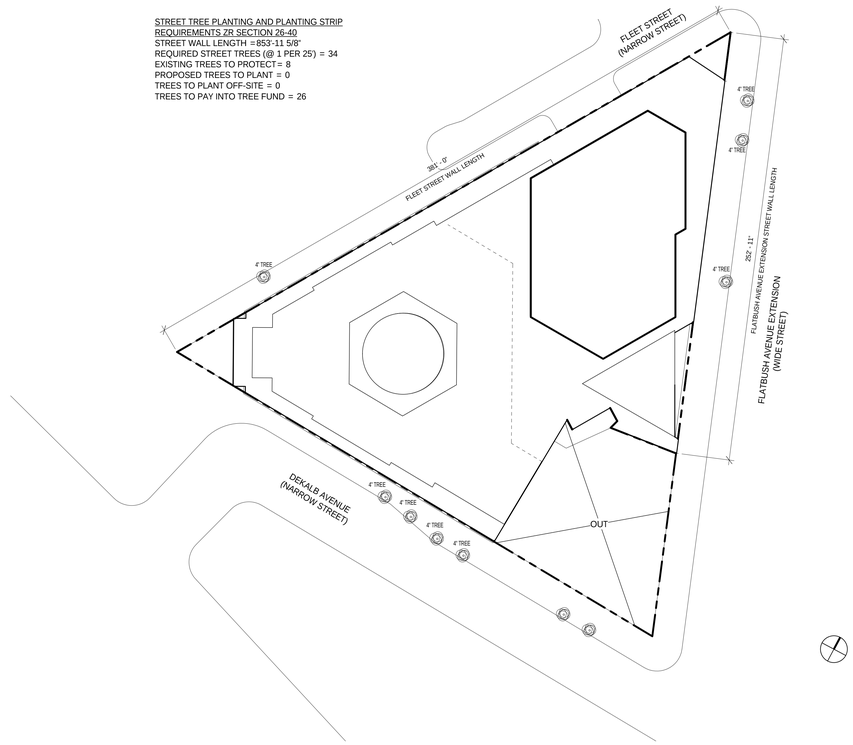
DEPT OF BLDGS320914338 Job Number

E 500551157760 Scan Code



* NOTE:
PROJECT ELEVATIONS REFER TO NAVD 88 DATUM,
SEE SITE PLAN; Z-005.00

STANDARD MINIMUM DISTANCE BETWEEN BUILDINGS | 1/16" = 1'-0" | 2 | Z-008.00



STREET TREE PLANTING AND PLANTING STRIP REQUIREMENTS ZR SECTION 26-40
STREET WALL LENGTH =853'-11 5/8"
REQUIRED STREET TREES (@ 1 PER 25') = 34
EXISTING TREES TO PROTECT= 8
PROPOSED TREES TO PLANT = 0
TREES TO PLANT OFF-SITE = 0
TREES TO PAY INTO TREE FUND = 26

STREET TREE PLANTING REQUIREMENTS | 1/32" = 1'-0" | 1 | Z-008.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 HERTH 45TH STREET
NEW YORK, NY 10017
tel 212.687.8888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.755-0540

BOLD

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7800

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BUILDING ENERGY
VIDARIS
260 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201

SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
04/21/16	FD / SOE DOB FILING SET
02/05/16	100% SD REASSESSMENT

NO.	DATE	REVISION

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DRAWING TITLE

ZONING ANALYSIS

SEAL & SIGNATURE

REGISTERED ARCHITECT ROBERT A. PASQUARELLI 026026 STATE OF NEW YORK

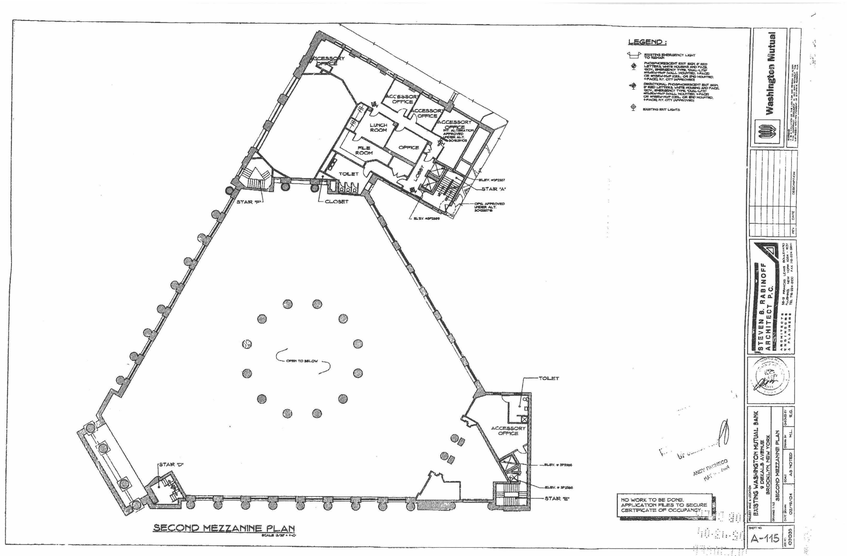
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

Z-008.00

DEPT OF BLDGS 320914338 Job Number

E-DOT-Z-010.00 Scan Code



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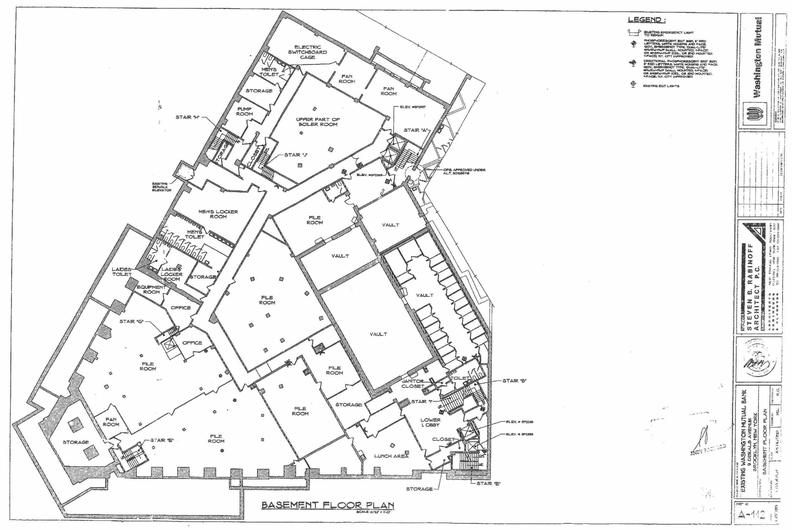

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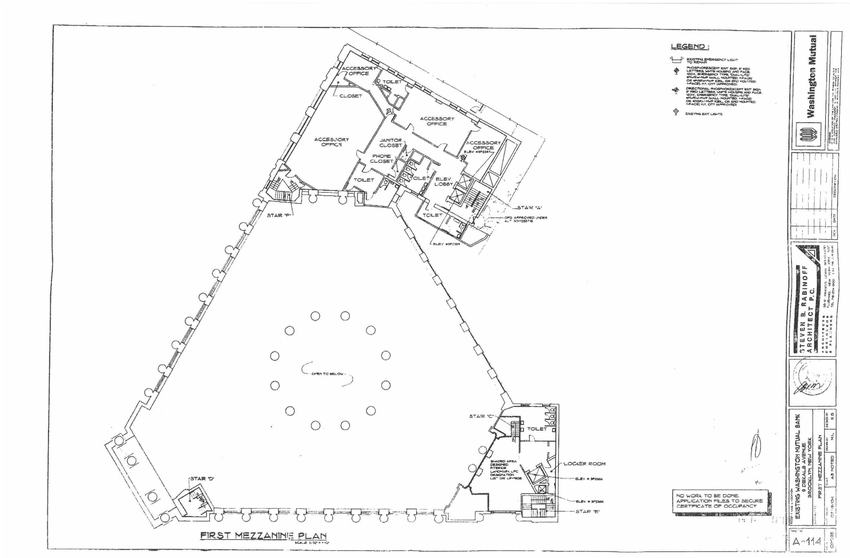

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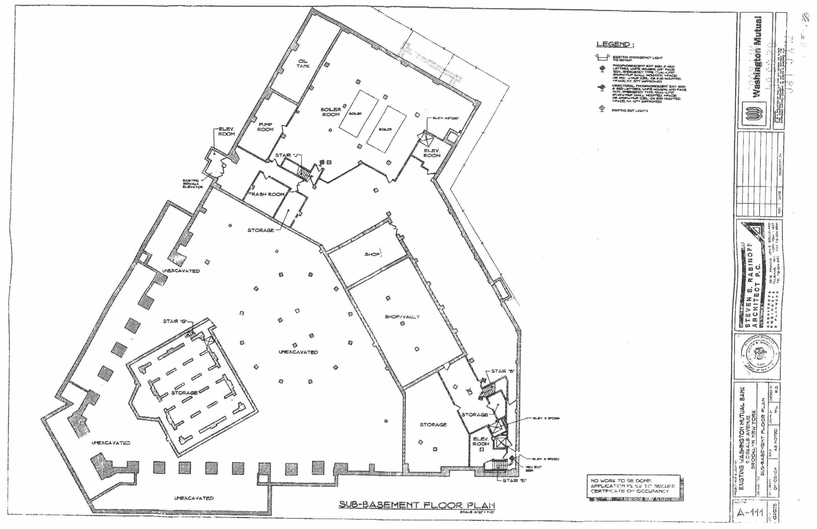

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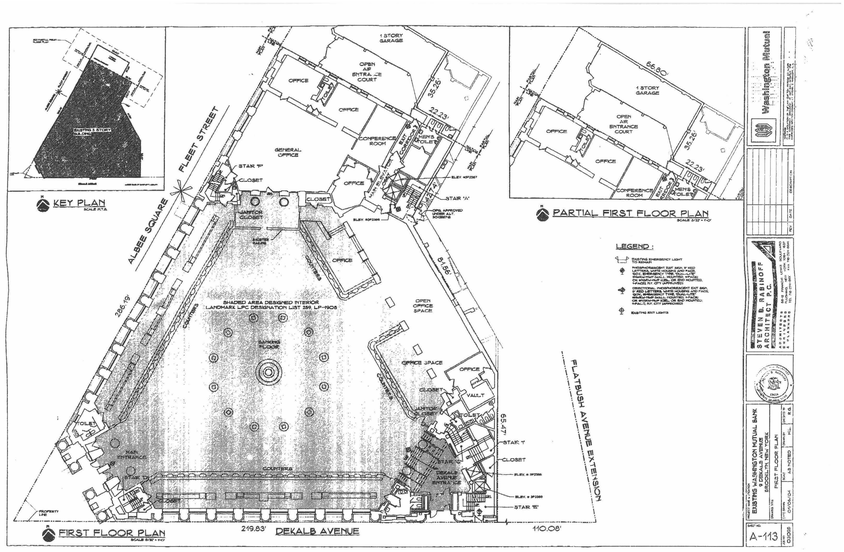
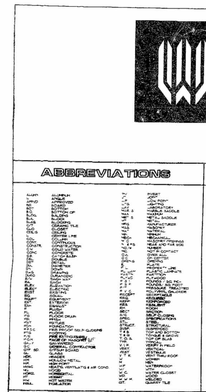


LOT 75 FILING A-113 | NTS | 4 | Z-012.00

Washington Mutual

9 DEKALB AVENUE
BROOKLYN, NEW YORK

ABBREVIATIONS



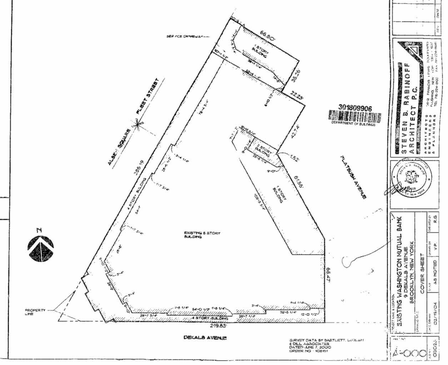
GENERAL NOTES

1. NO WORK TO BE DONE UNDER THIS APPLICATION. APPL. FILED TO SECURE NYC DEPT BLDG'S C/O.
2. ALL WORK COMPLETED UNDER CO 107434 FL/554

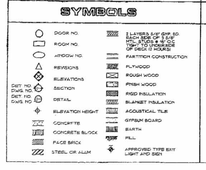
ZONING DATA

HOUSE NO	9 DEKALB AVENUE
BLOCK	79
LOT	1
ZONE	C4-1, SC
LOT AREA	2,953.0 SQ.FT
MAX. F.A.	5,906.00 SQ.FT
EXISTING F.A.	
1ST FLOOR	2170.00 SQ.FT
1ST MEZZANINE	1433.00 SQ.FT
2ND MEZZANINE	1433.00 SQ.FT
2ND FLOOR	3760.00 SQ.FT
TOTAL EXISTING F.A.	7,196 SQ.FT (121.8 % OF F.A.R.)

SITE PLAN



SYMBOLS



DRAWING INDEX

ARCHITECTURAL

A-000 TITLE SHEET
A-110 CELLAR/SUB-BASEMENT FLOOR PLAN
A-111 BASEMENT FLOOR PLAN
A-112 FIRST FLOOR PLAN
A-113 FIRST MEZZANINE FLOOR PLAN
A-114 SECOND MEZZANINE FLOOR PLAN
A-115 SECOND FLOOR PLAN
A-116 ROOF PLAN

LOT 75 FILING A-000 | NTS | 1 | Z-012.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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NEW YORK, NY 10005
tel 212.530.9300

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WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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AKRF
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NEW YORK, NY 10016
tel 646.388.9828

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133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
134 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10016
tel 212.759.6540

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NEW YORK, NY 10001
tel 212.674.6500

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NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEX ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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NEW YORK, NY 10005
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WHITE PLAINS, NY 10604
tel 914.495.4290

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CODE CONSULTANT
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22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

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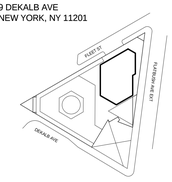
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
04/21/16	FO / SOE DOB FILING SET			
02/05/16	100% SD REASSESSMENT			

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DRAWING TITLE

LOT 75 FILING DRAWINGS

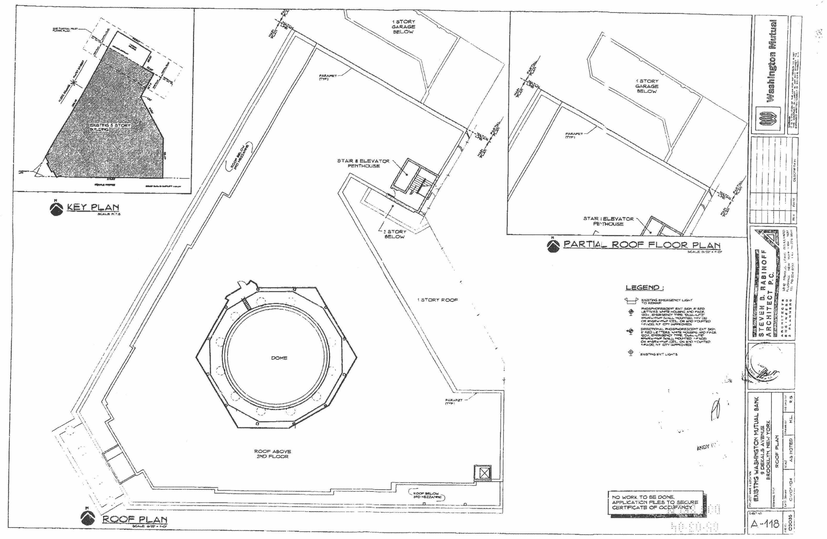
SEAL & SIGNATURE

REGISTERED ARCHITECT JESSICA A. PASQUINI 032226 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338
DRAWING NUMBER	Z-012.00

DEPT OF BLDGS 320014338 Job Number

E-3161650265 Scan Code



KEY PLAN

ROOF PLAN

PARTIAL ROOF FLOOR PLAN

LOT 75 FILING A-118 | NTS | 3 | Z-013.00

SECOND FLOOR PLAN

LOT 75 FILING A-117 | NTS | 2 | Z-013.00

THIRD MEZZANINE PLAN

LOT 75 FILING A-116 | NTS | 1 | Z-013.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 39TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES ARCHITECTURAL PRESERVATION

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.755-0540

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LIGHTING
BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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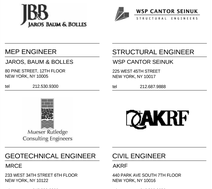
9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
04/21/16	FO / SOE DOB FILING SET
03/05/16	100% SO REASSESSMENT

NO.	DATE	REVISION

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DRAWING TITLE

LOT 75 FILING DRAWINGS

SEAL & SIGNATURE

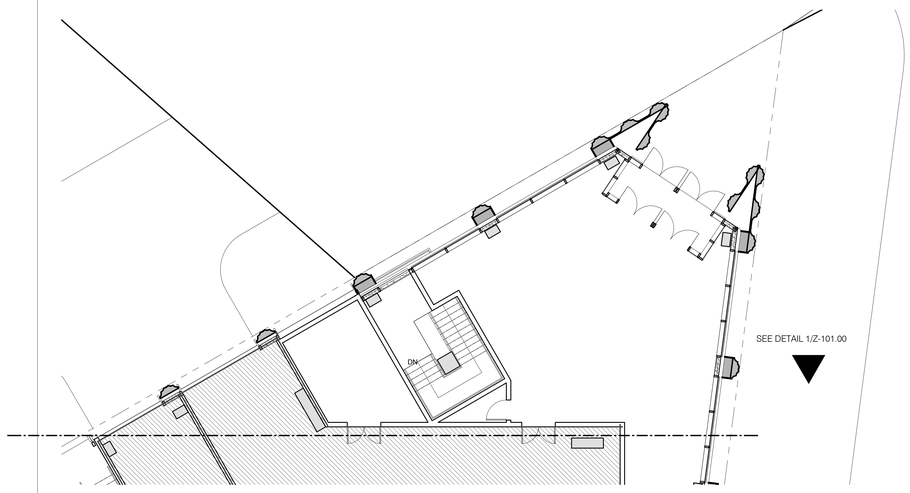
REGISTERED ARCHITECT JOSEPH A. PASQUARELLI 029059 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	32091-4338

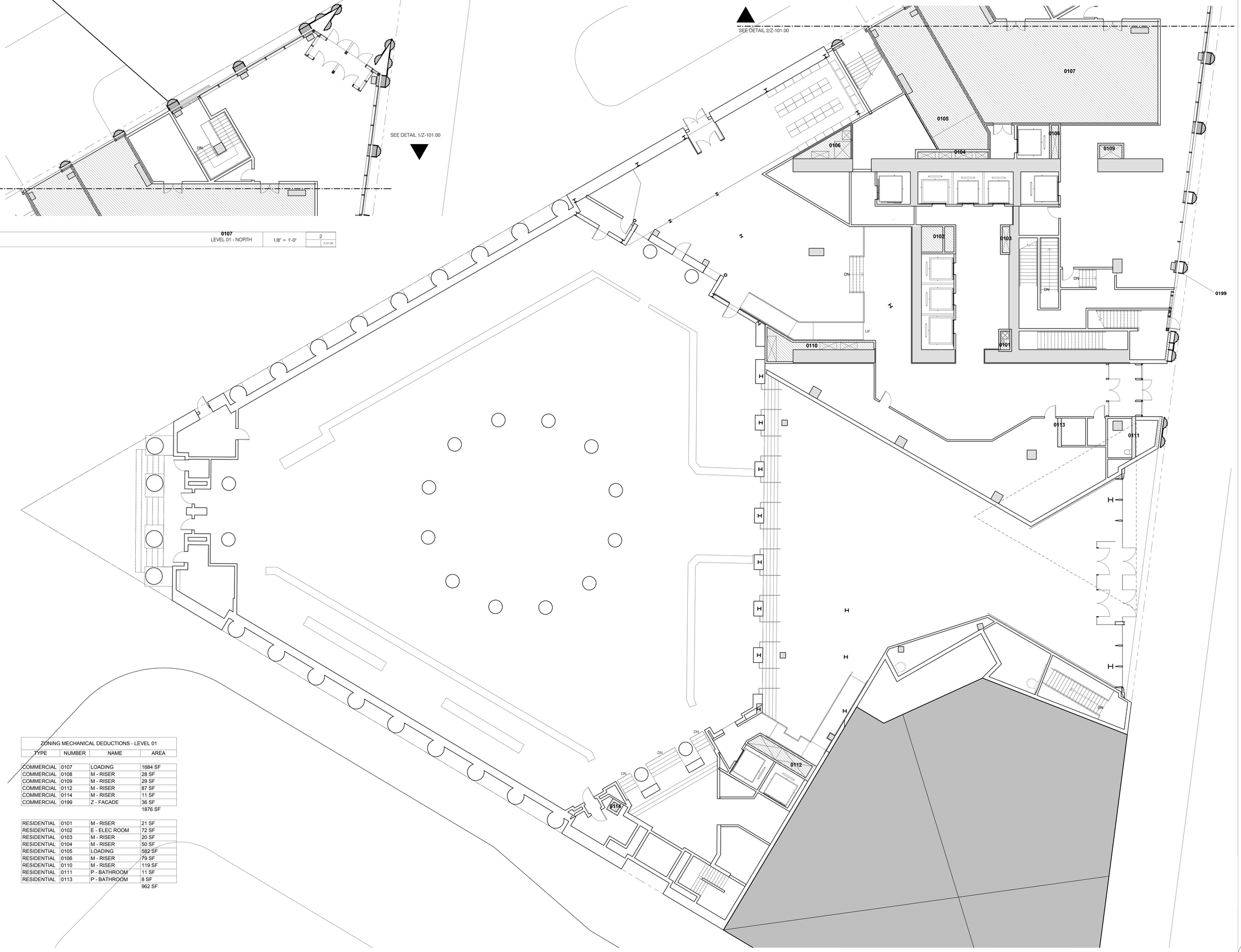
DRAWING NUMBER

Z-013.00

DEPT OF BLDGS 320914338 Job Number
E-SUBMISSION Scan Code



0107
LEVEL 01 - NORTH | 1/8" = 1'-0" | 2 / Z-101.00



ZONING MECHANICAL DEDUCTIONS - LEVEL 01

TYPE	NUMBER	NAME	AREA
COMMERCIAL	0107	LOADING	1684 SF
COMMERCIAL	0108	M - RISER	28 SF
COMMERCIAL	0109	M - RISER	29 SF
COMMERCIAL	0112	M - RISER	87 SF
COMMERCIAL	0114	M - RISER	11 SF
COMMERCIAL	0199	Z - FACADE	36 SF
			1876 SF

RESIDENTIAL	0101	M - RISER	21 SF
RESIDENTIAL	0102	E - ELEC ROOM	72 SF
RESIDENTIAL	0103	M - RISER	20 SF
RESIDENTIAL	0104	M - RISER	50 SF
RESIDENTIAL	0105	LOADING	582 SF
RESIDENTIAL	0106	M - RISER	79 SF
RESIDENTIAL	0110	M - RISER	119 SF
RESIDENTIAL	0111	P - BATHROOM	11 SF
RESIDENTIAL	0113	P - BATHROOM	8 SF
			962 SF

LEVEL 01 - SOUTH | 1/8" = 1'-0" | 1 / Z-101.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 48TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-0540

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LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315-6400

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BMU ENGINEER
ENTEK ENGINNERING
196 ANDS STREET
HACKENSACK, NJ 07601
tel 201.820.2902

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7500

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.465.4290

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NEW YORK, NY 10007
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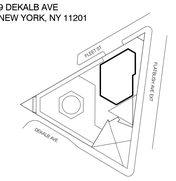
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
10/06/16	DOB FILING SET REV 2
07/15/16	DOB FILING SET
04/21/16	FD / SOE DOB FILING SET

NO. DATE REVISION

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MECHANICAL DEDUCTIONS - LEVEL 01

SEAL & SIGNATURE

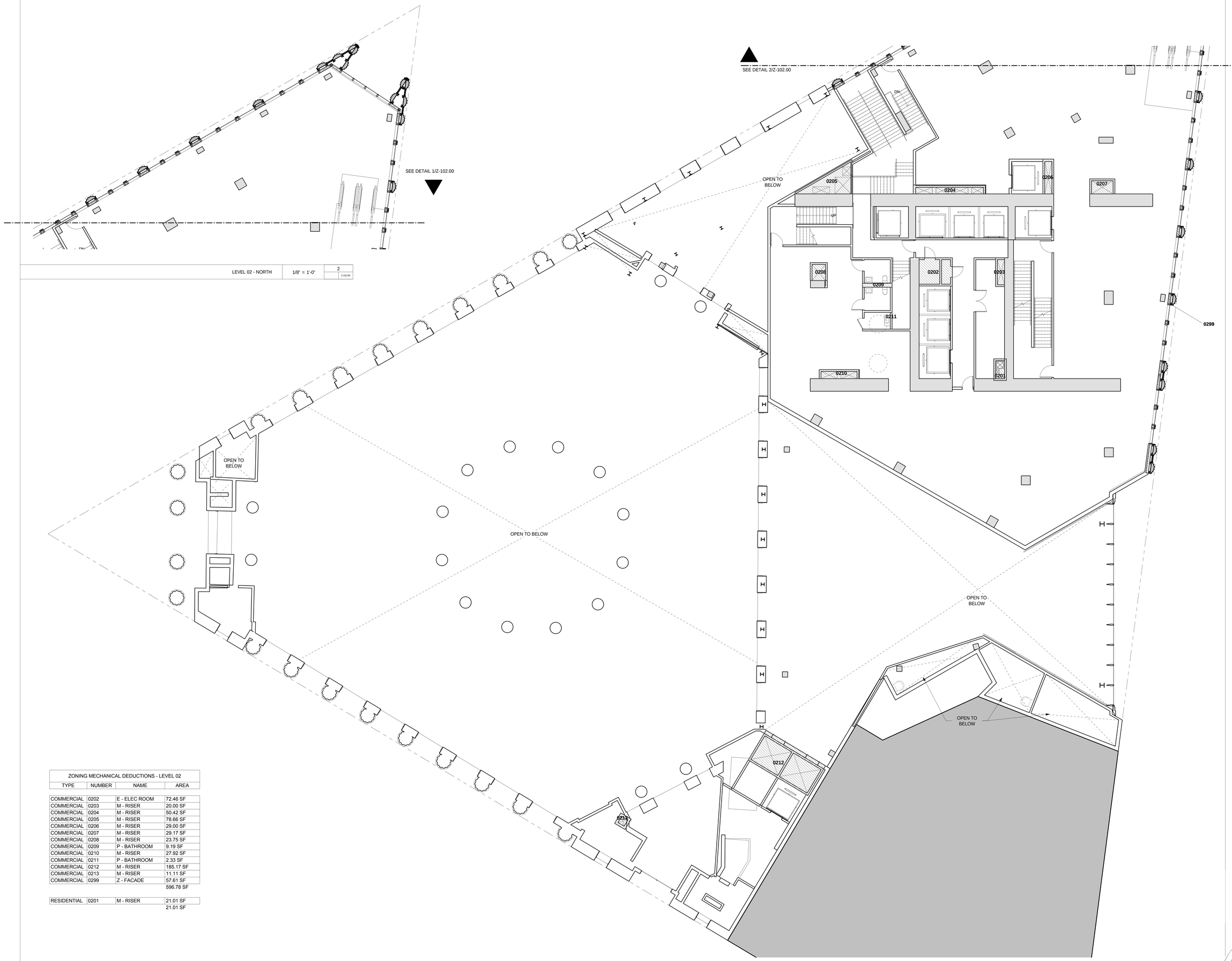
REGISTERED ARCHITECT GREGG A. PASQUARELLI STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

DRAWING NUMBER

Z-101.00

DEPT OF BLDGS 320914338 Job Number
E320914338S1 Scan Code



LEVEL 02 - NORTH | 1/8" = 1'-0" | 2 / Z-102.00

LEVEL 02 - SOUTH | 1/8" = 1'-0" | 1 / Z-102.00

ZONING MECHANICAL DEDUCTIONS - LEVEL 02

TYPE	NUMBER	NAME	AREA
COMMERCIAL	0202	E - ELEC ROOM	72.46 SF
COMMERCIAL	0203	M - RISER	20.00 SF
COMMERCIAL	0204	M - RISER	50.42 SF
COMMERCIAL	0205	M - RISER	78.66 SF
COMMERCIAL	0206	M - RISER	29.00 SF
COMMERCIAL	0207	M - RISER	29.17 SF
COMMERCIAL	0208	M - RISER	23.75 SF
COMMERCIAL	0209	P - BATHROOM	9.19 SF
COMMERCIAL	0210	M - RISER	27.92 SF
COMMERCIAL	0211	P - BATHROOM	2.33 SF
COMMERCIAL	0212	M - RISER	185.17 SF
COMMERCIAL	0213	M - RISER	11.11 SF
COMMERCIAL	0299	Z - FACADE	57.61 SF
			596.78 SF
RESIDENTIAL	0201	M - RISER	21.01 SF
			21.01 SF

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
134 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.759.6560

BOLD

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BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINEERING
144 JAMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2325

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TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.495.4290

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NEW YORK, NY 10007
tel 212.233.6344

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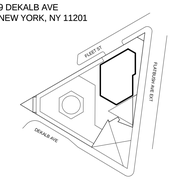

SITE DIAGRAM

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04/21/16	FD / SOE DOB FILING SET

NO.	DATE	REVISION

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MECHANICAL DEDUCTIONS - LEVEL 02

SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A PASCARELLA 026295 STATE OF NEW YORK

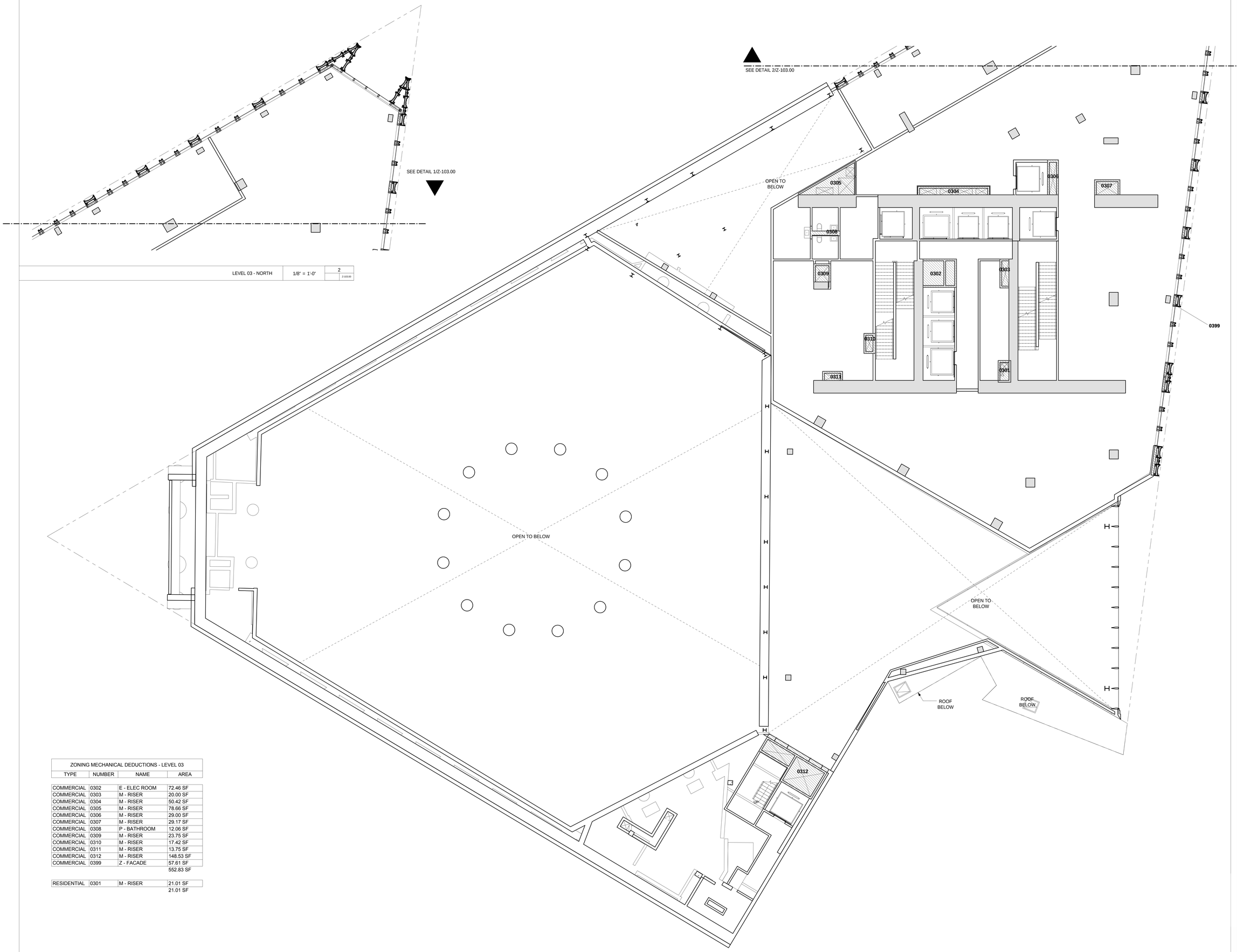
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

Z-102.00

DEPT OF BLDGS 320014338 Job Number

E1510746595 Scan Code



LEVEL 03 - NORTH | 1/8" = 1'-0" | 2 / Z-103.00

LEVEL 03 - SOUTH | 1/8" = 1'-0" | 1 / Z-103.00

ZONING MECHANICAL DEDUCTIONS - LEVEL 03

TYPE	NUMBER	NAME	AREA
COMMERCIAL	0302	E - ELEC ROOM	72.46 SF
COMMERCIAL	0303	M - RISER	20.00 SF
COMMERCIAL	0304	M - RISER	50.42 SF
COMMERCIAL	0305	M - RISER	78.66 SF
COMMERCIAL	0306	M - RISER	29.00 SF
COMMERCIAL	0307	M - RISER	29.17 SF
COMMERCIAL	0308	P - BATHROOM	12.06 SF
COMMERCIAL	0309	M - RISER	23.75 SF
COMMERCIAL	0310	M - RISER	17.42 SF
COMMERCIAL	0311	M - RISER	13.75 SF
COMMERCIAL	0312	M - RISER	148.53 SF
COMMERCIAL	0399	Z - FACADE	57.61 SF
			552.83 SF
RESIDENTIAL	0301	M - RISER	21.01 SF
			21.01 SF

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS, BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.8888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
154 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA

HISTORIC PRESERVATION
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39 WEST 37TH ST., FLOOR 12A
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NEW YORK, NY 10001
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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINEERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
355 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.204.2025

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333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201

SITE DIAGRAM

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07/15/16	DOB FILING SET
04/21/16	FD / SOE DOB FILING SET

DATE	NO.	REVISION

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DRAWING TITLE

MECHANICAL DEDUCTIONS - LEVEL 03

SEAL & SIGNATURE

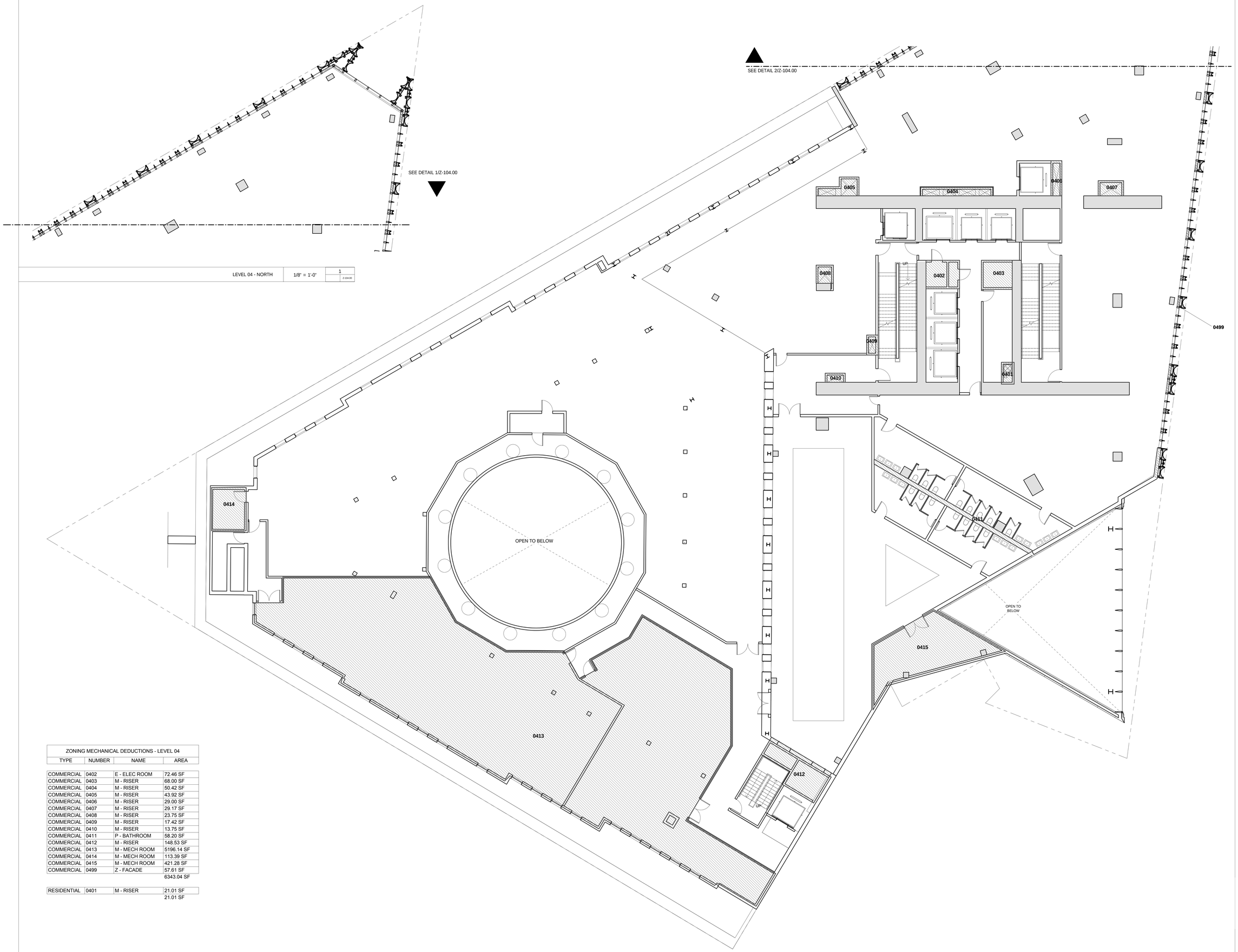
REGISTERED ARCHITECT GREGORY A. PASQUARELLI 026302 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
JOB NO.	32091-4338

DRAWING NUMBER

Z-103.00

DEPT OF BLDGS 320014338 Job Number
E350574231 Scan Code



LEVEL 04 - NORTH | 1/8" = 1'-0" | 1 / Z-104.00

LEVEL 04 - SOUTH | 1/8" = 1'-0" | 2 / Z-104.00

ZONING MECHANICAL DEDUCTIONS - LEVEL 04

TYPE	NUMBER	NAME	AREA
COMMERCIAL	0402	E - ELEC ROOM	72.46 SF
COMMERCIAL	0403	M - RISER	68.00 SF
COMMERCIAL	0404	M - RISER	50.42 SF
COMMERCIAL	0405	M - RISER	43.92 SF
COMMERCIAL	0406	M - RISER	29.00 SF
COMMERCIAL	0407	M - RISER	29.17 SF
COMMERCIAL	0408	M - RISER	23.75 SF
COMMERCIAL	0409	M - RISER	17.42 SF
COMMERCIAL	0410	M - RISER	13.75 SF
COMMERCIAL	0411	P - BATHROOM	58.20 SF
COMMERCIAL	0412	M - RISER	148.53 SF
COMMERCIAL	0413	M - MECH ROOM	5196.14 SF
COMMERCIAL	0414	M - MECH ROOM	113.39 SF
COMMERCIAL	0415	M - MECH ROOM	421.28 SF
COMMERCIAL	0499	Z - FACADE	57.61 SF
			6343.04 SF

RESIDENTIAL	0401	M - RISER	21.01 SF
			21.01 SF

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 LIBERTY STREET 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.759.6540

BOLD

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7300

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

TRACE POOL DESIGN

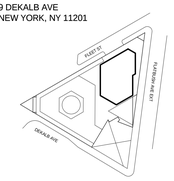
POOL
TRACE POOL DESIGN
310 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
10/06/16	DOB FILING SET REV 2
07/15/16	DOB FILING SET
04/21/16	FD / SOE DOB FILING SET

NO.	DATE	REVISION

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MECHANICAL DEDUCTIONS - LEVEL 04

SEAL & SIGNATURE

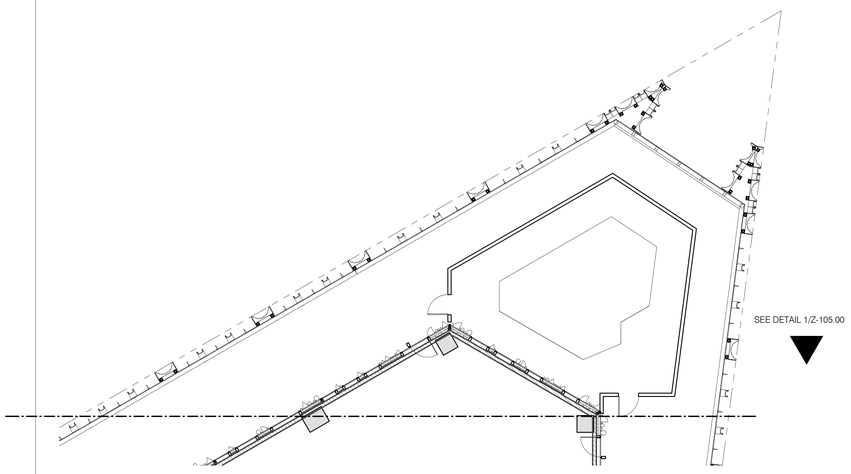
REGISTERED ARCHITECT JORGE A. PASQUINELLI STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

Z-104.00

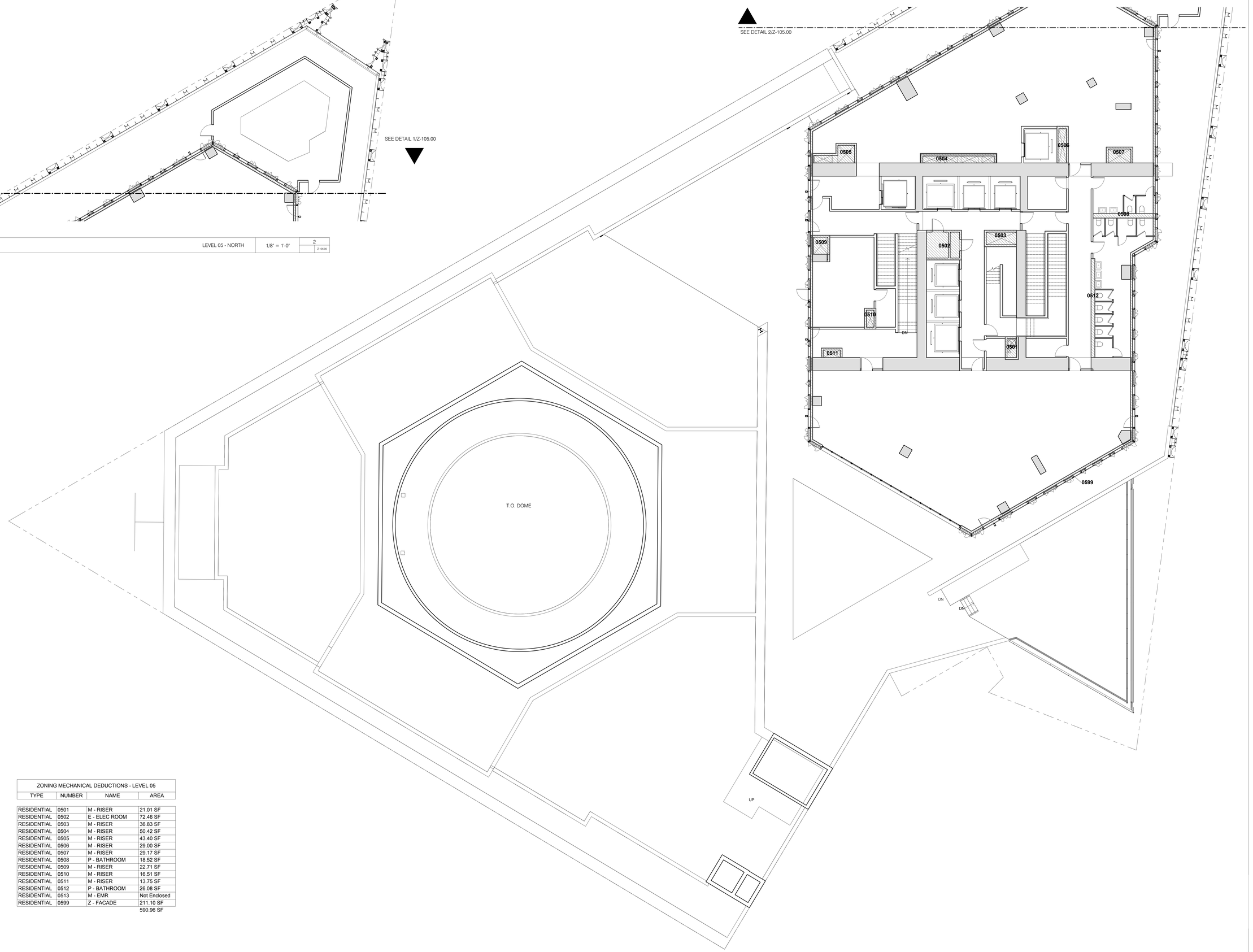
DEPT OF BLDGS 320914338 Job Number
E 320914338 Scan Code



SEE DETAIL 1/Z-105.00

LEVEL 05 - NORTH | 1/8" = 1'-0" | 2 / Z-105.00

SEE DETAIL 2/Z-105.00



ZONING MECHANICAL DEDUCTIONS - LEVEL 05			
TYPE	NUMBER	NAME	AREA
RESIDENTIAL	0501	M - RISER	21.01 SF
RESIDENTIAL	0502	E - ELEC ROOM	72.46 SF
RESIDENTIAL	0503	M - RISER	36.83 SF
RESIDENTIAL	0504	M - RISER	50.42 SF
RESIDENTIAL	0505	M - RISER	43.40 SF
RESIDENTIAL	0506	M - RISER	29.00 SF
RESIDENTIAL	0507	M - RISER	29.17 SF
RESIDENTIAL	0508	P - BATHROOM	18.52 SF
RESIDENTIAL	0509	M - RISER	22.71 SF
RESIDENTIAL	0510	M - RISER	16.51 SF
RESIDENTIAL	0511	M - RISER	13.75 SF
RESIDENTIAL	0512	P - BATHROOM	26.08 SF
RESIDENTIAL	0513	M - EMR	Not Enclosed
RESIDENTIAL	0599	Z - FACADE	211.10 SF
			590.96 SF

LEVEL 05 - SOUTH | 1/8" = 1'-0" | 1 / Z-105.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 48TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 5A
NEW YORK, NY 10018
tel 212.759-6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315-6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7500

VIDARIS

BUILDING ENERGY
VIDARIS
260 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lifetime TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233-6344

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9 DEKALB AVE
NEW YORK, NY 11201

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MECHANICAL DEDUCTIONS - LEVEL 05

SEAL & SIGNATURE

REGISTERED ARCHITECT GREGG A. PASQUARELLI 026729 STATE OF NEW YORK

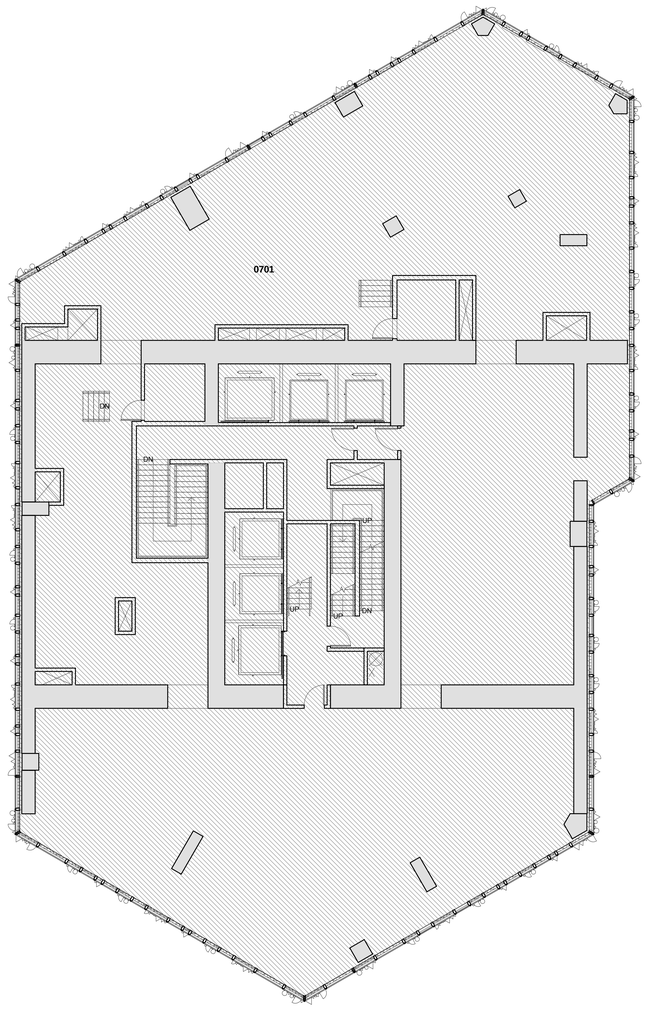
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

Z-105.00

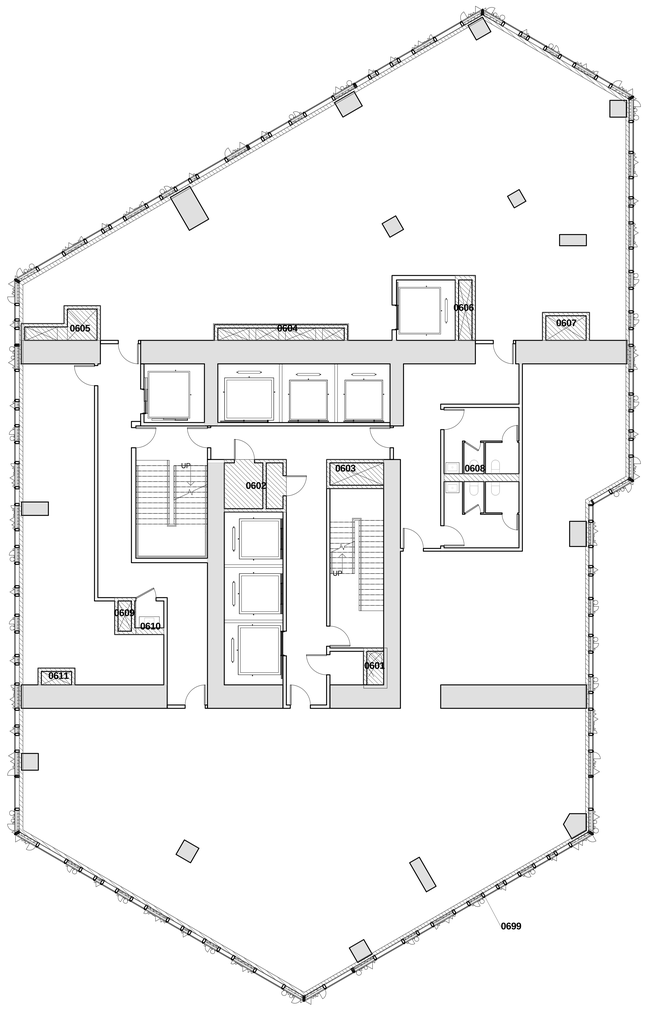
DEPT OF BLDGS 320914338 Job Number
E350445305 Scan Code

ZONING MECHANICAL DEDUCTIONS - LEVEL 07		
NUMBER	NAME	AREA
0701	M - MECH FLOOR	10316.14 SF
		10316.14 SF



LEVEL 07 | 1/8" = 1'-0" | 2 / 2-106.00

ZONING MECHANICAL DEDUCTIONS - LEVEL 06		
NUMBER	NAME	AREA
0601	M - RISER	21.01 SF
0602	E - ELEC ROOM	72.46 SF
0603	M - RISER	36.83 SF
0604	M - RISER	50.42 SF
0605	M - RISER	43.30 SF
0606	M - RISER	29.00 SF
0607	M - RISER	29.17 SF
0608	P - BATHROOM	13.03 SF
0609	M - RISER	17.42 SF
0610	P - BATHROOM	4.18 SF
0611	M - RISER	13.75 SF
0699	Z - FACADE	237.52 SF
		568.08 SF



LEVEL 06 | 1/8" = 1'-0" | 1 / 2-106.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST, FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

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LIGHTING
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227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINEERING
144 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2325

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TRACE POOL DESIGN
310 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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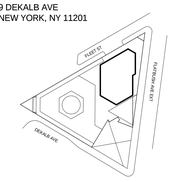
9 DEKALB AVE
NEW YORK, NY 11201



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04/21/16	FD / SOE DOB FILING SET

NO.	DATE	REVISION

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MECHANICAL DEDUCTIONS - LEVEL 06 / 07

SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASQUARELLI 026705 STATE OF NEW YORK

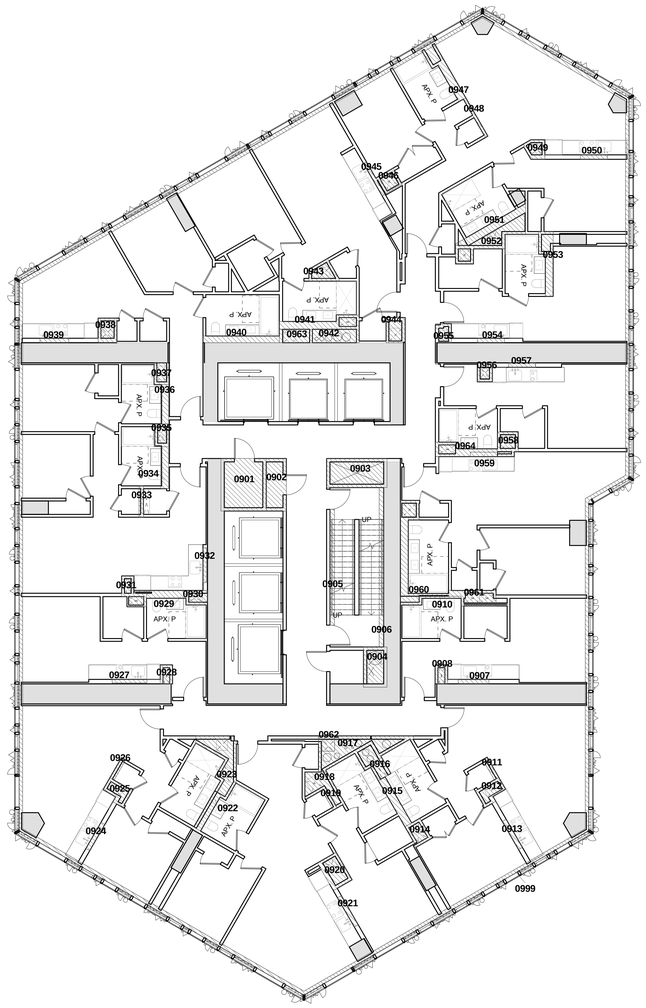
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
JOB NO.	320914338

DRAWING NUMBER

Z-106.00

DEPT OF BLDGS 320914338 Job Number
E1647080073 Scan Code

ZONING MECHANICAL DEDUCTIONS - LEVEL 09		
NUMBER	NAME	AREA
0901	M - MECH ROOM	52.87 SF
0902	E - ELEC ROOM	23.50 SF
0903	M - STAIR EXHAUST	39.00 SF
0904	M - RISER	20.99 SF
0905	A - STAIR WIDTH	11.50 SF
0906	A - STAIR WIDTH	15.83 SF
0907	P - KITCHEN	3.04 SF
0908	M - RISER	5.31 SF
0910	P - BATHROOM	3.54 SF
0911	P - W/D	2.61 SF
0912	M - RISER	9.82 SF
0913	P - KITCHEN	3.23 SF
0914	M - RISER	9.09 SF
0915	P - BATHROOM	9.35 SF
0916	M - RISER	6.48 SF
0917	P - RISER	40.17 SF
0918	M - RISER	16.18 SF
0919	P - W/D	2.34 SF
0920	M - RISER	15.34 SF
0921	P - KITCHEN	3.33 SF
0922	P - BATHROOM	13.35 SF
0923	M - RISER	23.05 SF
0924	P - KITCHEN	3.00 SF
0925	M - RISER	9.32 SF
0926	P - W/D	2.46 SF
0927	P - KITCHEN	2.59 SF
0928	M - RISER	5.20 SF
0929	P - BATHROOM	6.85 SF
0930	M - RISER	6.95 SF
0931	M - RISER	11.79 SF
0932	P - KITCHEN	2.59 SF
0933	P - W/D	3.11 SF
0934	P - BATHROOM	7.29 SF
0935	M - RISER	7.40 SF
0936	P - BATHROOM	6.81 SF
0937	M - RISER	7.04 SF
0938	M - RISER	10.22 SF
0939	P - KITCHEN	2.86 SF
0940	P - BATHROOM	11.36 SF
0941	P - BATHROOM	17.98 SF
0942	P - RISER	13.11 SF
0943	M - RISER	10.40 SF
0944	M - RISER	10.66 SF
0945	P - KITCHEN	2.78 SF
0946	M - RISER	8.24 SF
0947	P - BATHROOM	13.39 SF
0948	P - W/D	2.75 SF
0949	M - RISER	7.85 SF
0950	P - KITCHEN	2.68 SF
0951	P - BATHROOM	12.97 SF
0952	M - RISER	25.47 SF
0953	P - BATHROOM	14.65 SF
0954	P - KITCHEN	2.68 SF
0955	M - RISER	6.76 SF
0956	M - RISER	6.33 SF
0957	P - KITCHEN	2.68 SF
0958	M - RISER	10.91 SF
0959	P - KITCHEN	2.68 SF
0960	P - BATHROOM	26.62 SF
0961	P - W/D	13.86 SF
0962	M - RISER	5.52 SF
0963	M - RISER	9.89 SF
0964	P - BATHROOM	11.50 SF
0999	Z - FACADE	238.14 SF
		917.31 SF



JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.8888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.759.6560

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NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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CONSULTING ENGINEERS

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196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.889.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lathrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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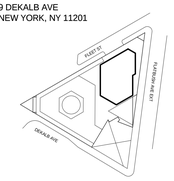
CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

MECHANICAL DEDUCTIONS - LEVELS 08-14

SEAL & SIGNATURE

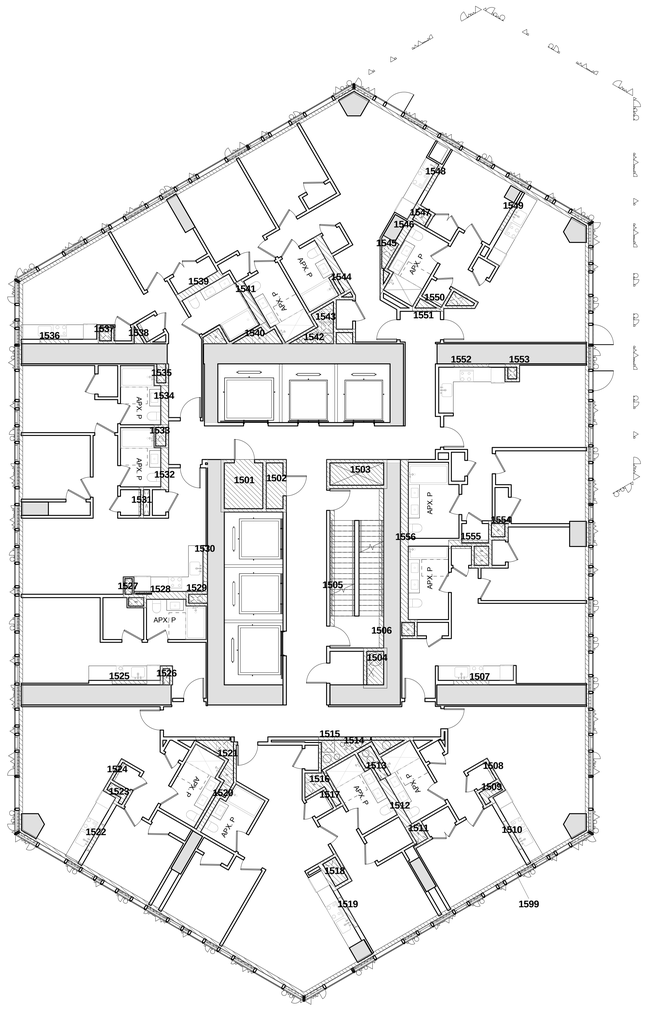
REGISTERED ARCHITECT GREGG A. PASQUARELLI 029255 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
JOB NO.	320914338
DRAWING NUMBER	Z-108.00

LEVEL 09 | 1/8" = 1'-0" | 1 | Z-108.00

DEPT OF BLDGS 320914338 Job Number
E350971740B Shop Code

ZONING MECHANICAL DEDUCTIONS - LEVEL 15		
NUMBER	NAME	AREA
1501	M - MECH ROOM	52.87 SF
1502	E - ELEC ROOM	23.50 SF
1503	M - STAIR EXHAUST	39.00 SF
1504	M - RISER	20.99 SF
1505	A - STAIR WIDTH	11.50 SF
1506	A - STAIR WIDTH	15.83 SF
1507	P - KITCHEN	3.49 SF
1508	P - W/D	2.61 SF
1509	M - RISER	9.82 SF
1510	P - KITCHEN	3.23 SF
1511	M - RISER	9.08 SF
1512	P - BATHROOM	9.36 SF
1513	M - RISER	6.24 SF
1514	P - RISER	40.41 SF
1515	M - RISER	5.52 SF
1516	M - RISER	16.18 SF
1517	P - W/D	2.34 SF
1518	M - RISER	15.34 SF
1519	P - KITCHEN	3.33 SF
1520	P - BATHROOM	11.58 SF
1521	M - RISER	24.81 SF
1522	P - KITCHEN	3.00 SF
1523	M - RISER	9.32 SF
1524	P - W/D	2.46 SF
1525	P - KITCHEN	2.59 SF
1526	M - RISER	5.20 SF
1527	M - RISER	11.02 SF
1528	P - BATHROOM	6.85 SF
1529	M - RISER	6.95 SF
1530	P - KITCHEN	3.11 SF
1531	P - W/D	3.11 SF
1532	P - BATHROOM	7.29 SF
1533	M - RISER	7.40 SF
1534	P - BATHROOM	6.81 SF
1535	M - RISER	7.04 SF
1536	P - KITCHEN	2.86 SF
1537	M - RISER	7.32 SF
1538	P - W/D	5.76 SF
1539	P - BATHROOM	9.13 SF
1540	M - RISER	22.83 SF
1541	P - BATHROOM	8.51 SF
1542	P - RISER	11.03 SF
1543	M - RISER	25.57 SF
1544	P - BATHROOM	13.86 SF
1545	M - RISER	12.76 SF
1546	P - BATHROOM	6.12 SF
1547	M - RISER	8.93 SF
1548	P - KITCHEN	2.73 SF
1549	P - KITCHEN	3.03 SF
1550	P - W/D	2.76 SF
1551	M - RISER	15.64 SF
1552	P - KITCHEN	2.59 SF
1553	M - RISER	5.79 SF
1554	M - RISER	23.19 SF
1555	P - W/D	2.25 SF
1556	P - BATHROOM	34.91 SF
1599	Z - FACADE	215.93 SF
		852.72 SF



LEVEL 15 | 1/8" = 1'-0" | 1 / Z-115.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.8888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

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LIGHTING
BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
106 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
550 SIXTEH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
260 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2225

TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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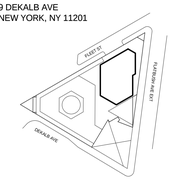
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16	DOB FILING SET
04/21/16	FD / SOE DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

MECHANICAL DEDUCTIONS - LEVELS 15-21

SEAL & SIGNATURE

REGISTERED ARCHITECT JESSE A. PASQUARELLI 026295 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

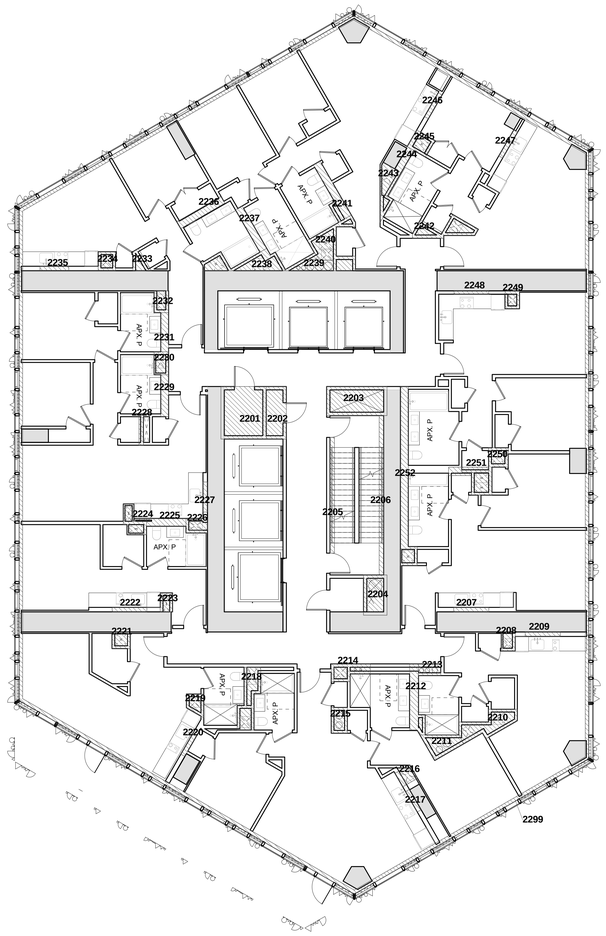
DRAWING NUMBER

Z-115.00

DEPT OF BLDGS 320914338 Job Number

E-Z 9854240199 Scan Code

ZONING MECHANICAL DEDUCTIONS - LEVEL 22		
NUMBER	NAME	AREA
2201	M - MECH ROOM	52.87 SF
2202	E - ELEC ROOM	23.50 SF
2203	M - STAIR EXHAUST	39.00 SF
2204	M - RISER	20.99 SF
2205	A - STAIR WIDTH	11.50 SF
2206	A - STAIR WIDTH	15.83 SF
2207	P - KITCHEN	3.49 SF
2208	M - RISER	5.96 SF
2209	P - KITCHEN	3.49 SF
2210	M - RISER	23.32 SF
2211	P - RISER	14.87 SF
2212	P - BATHROOM	15.84 SF
2213	P - RISER	5.79 SF
2214	M - RISER	12.01 SF
2215	P - RISER	9.24 SF
2216	M - RISER	5.93 SF
2217	P - KITCHEN	2.33 SF
2218	P - BATHROOM	21.88 SF
2219	M - RISER	7.24 SF
2220	P - KITCHEN	2.83 SF
2221	M - RISER	6.72 SF
2222	P - KITCHEN	3.33 SF
2223	M - RISER	5.20 SF
2224	M - RISER	11.02 SF
2225	P - BATHROOM	6.85 SF
2226	M - RISER	6.95 SF
2227	P - KITCHEN	2.98 SF
2228	P - W/D	3.11 SF
2229	P - BATHROOM	7.29 SF
2230	M - RISER	7.40 SF
2231	P - BATHROOM	6.81 SF
2232	M - RISER	7.04 SF
2233	M - RISER	5.76 SF
2234	M - RISER	7.32 SF
2235	P - KITCHEN	2.86 SF
2236	P - BATHROOM	9.13 SF
2237	P - BATHROOM	8.51 SF
2238	M - RISER	23.03 SF
2239	P - RISER	11.08 SF
2240	M - RISER	25.53 SF
2241	P - BATHROOM	13.86 SF
2242	M - RISER	18.40 SF
2243	M - RISER	12.75 SF
2244	P - BATHROOM	6.13 SF
2245	M - RISER	8.93 SF
2246	P - KITCHEN	2.73 SF
2247	P - KITCHEN	3.03 SF
2248	P - KITCHEN	2.59 SF
2249	M - RISER	5.79 SF
2250	M - RISER	22.44 SF
2251	P - W/D	3.00 SF
2252	P - BATHROOM	34.91 SF
2299	Z - FACADE	211.45 SF
		811.83 SF



LEVEL 22 | 1/8" = 1'-0" | 1 / Z-122.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.8888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.755-0540

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NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
106 JAMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
550 SIXTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
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NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2225

TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
310 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
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22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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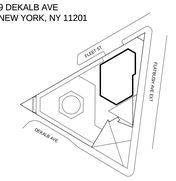
NEW YORK, NY 11201



SITE DIAGRAM

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DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

MECHANICAL DEDUCTIONS - LEVELS 22-26

SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASQUARELLI 026992 STATE OF NEW YORK

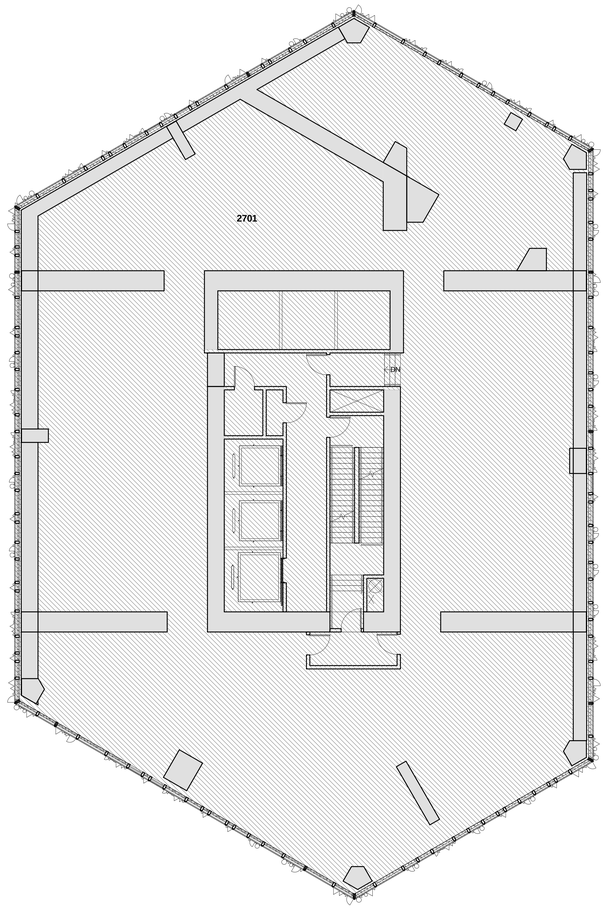
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

Z-122.00

DEPT OF BLDGS 320914338 Job Number
E346250457SI Scan Code

ZONING MECHANICAL DEDUCTIONS - LEVEL 27		
NUMBER	NAME	AREA
2701	M - MECH FLOOR	9167.41 SF
		9167.41 SF TYP.



JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 39TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST, FLOOR 12A
NEW YORK, NY 10018
tel 212.755-0540

BOLD

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
144 JAMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SIXTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
310 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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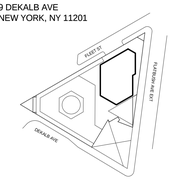
9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

MECHANICAL DEDUCTIONS - LEVEL 27

SEAL & SIGNATURE

REGISTERED ARCHITECT JESSE A. PASQUARELLI 026292 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

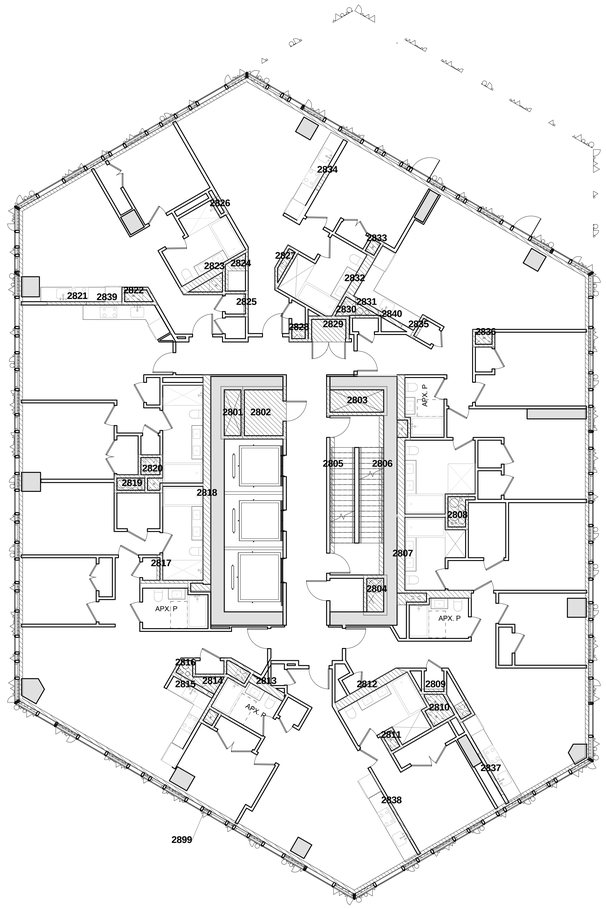
Z-127.00

LEVEL 27 | 1/8" = 1'-0" | 1 / Z-127.00

DEPT OF BLDGS 320914338 Job Number

E 3950714455 Scan Code

ZONING MECHANICAL DEDUCTIONS - LEVEL 28		
NUMBER	NAME	AREA
2801	M - RISER	25.46 SF
2802	M - MECH ROOM	50.92 SF
2803	M - STAIR EXHAUST	39.00 SF
2804	M - RISER	20.99 SF
2805	A - STAIR WIDTH	11.50 SF
2806	A - STAIR WIDTH	15.83 SF
2807	P - BATHROOM	58.03 SF
2808	P - RISER	18.48 SF
2809	P - W/D	3.21 SF
2810	M - RISER	25.72 SF
2811	M - RISER	7.96 SF
2812	P - BATHROOM	14.84 SF
2813	P - BATHROOM	6.71 SF
2814	M - RISER	31.11 SF
2815	P - KITCHEN	3.07 SF
2816	P - RISER	9.02 SF
2817	P - W/D	3.32 SF
2818	P - BATHROOM	44.18 SF
2819	P - RISER	12.42 SF
2820	M - RISER	18.27 SF
2821	P - KITCHEN	2.94 SF
2822	M - RISER	12.48 SF
2823	P - BATHROOM	10.20 SF
2824	M - RISER	20.54 SF
2825	P - W/D	2.56 SF
2826	P - BATHROOM	4.45 SF
2827	M - RISER	10.52 SF
2828	M - RISER	7.33 SF
2829	IT CLOSET	23.73 SF
2830	M - RISER	8.84 SF
2831	P - RISER	7.30 SF
2832	P - BATHROOM	8.53 SF
2833	M - RISER	6.54 SF
2834	P - KITCHEN	2.77 SF
2835	P - W/D	3.19 SF
2836	M - RISER	8.74 SF
2837	P - KITCHEN	2.95 SF
2838	P - KITCHEN	2.95 SF
2839	P - KITCHEN	2.61 SF
2840	P - KITCHEN	2.90 SF
2899	Z - FACADE	199.88 SF
		772.00 SF



LEVEL 28 | 1/8" = 1'-0" | 1 / Z-128.00

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NEW YORK, NY 10011
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ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.8888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 39TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.759.6540

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NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
106 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7300

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BUILDING ENERGY
VIDARIS
260 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2225

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310 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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CODE CONSULTANT
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22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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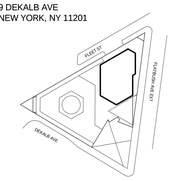
9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

MECHANICAL DEDUCTIONS - LEVELS 28-33

SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASCHETTO 029929 STATE OF NEW YORK

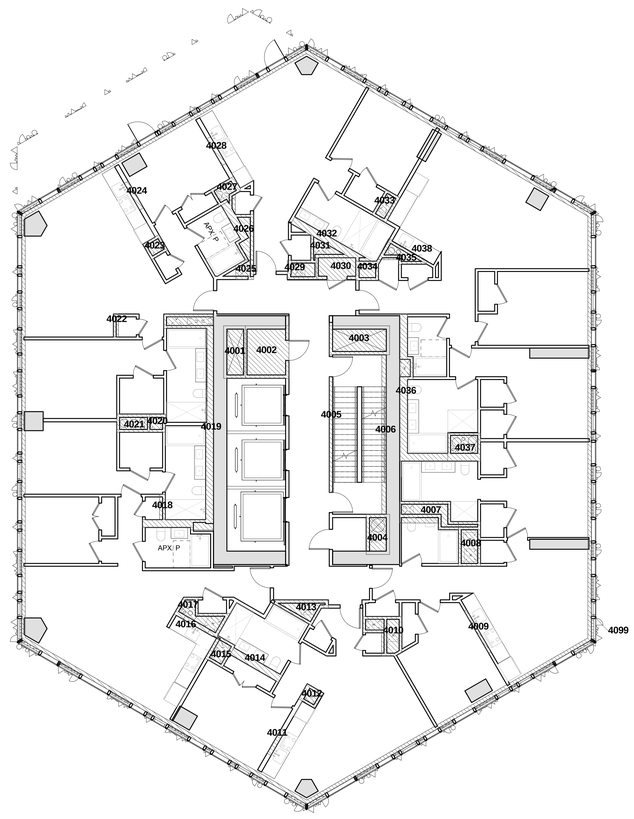
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

Z-128.00

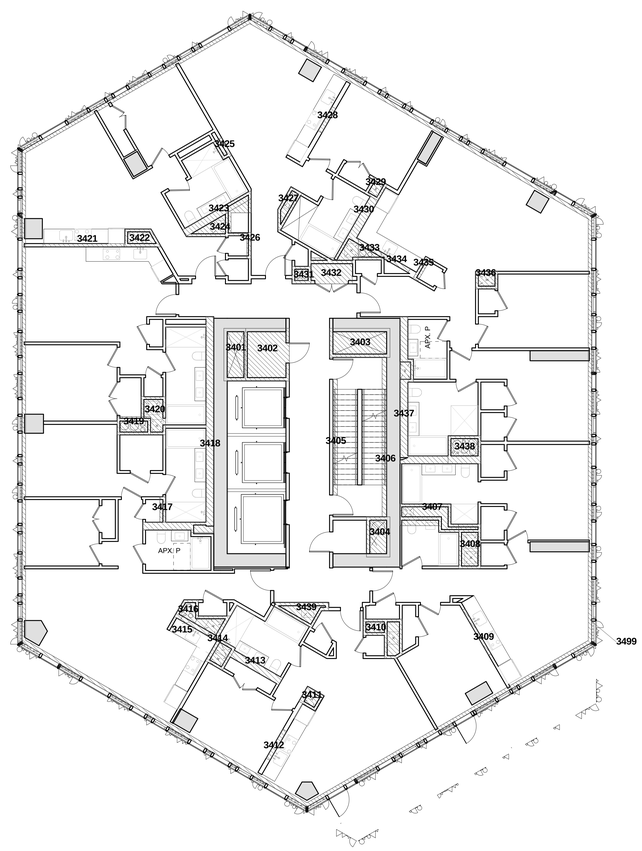
DEPT OF BLDGS 320914338 Job Number
E320914338 Scan Code

ZONING MECHANICAL DEDUCTIONS - LEVEL 40		
NUMBER	NAME	AREA
4001	M - RISER	25.46 SF
4002	M - MECH ROOM	50.92 SF
4003	M - STAIR EXHAUST	39.00 SF
4004	M - RISER	20.99 SF
4005	A - STAIR WIDTH	11.50 SF
4006	A - STAIR WIDTH	15.83 SF
4007	P - BATHROOM	27.67 SF
4008	M - RISER	21.92 SF
4009	P - KITCHEN	3.04 SF
4010	M - RISER	24.46 SF
4011	P - KITCHEN	2.84 SF
4012	M - RISER	7.54 SF
4013	M - RISER	17.09 SF
4014	P - BATHROOM	9.75 SF
4015	M - RISER	22.51 SF
4016	P - KITCHEN	2.77 SF
4017	M - RISER	9.10 SF
4018	P - W/D	3.32 SF
4019	P - BATHROOM	62.68 SF
4020	M - RISER	6.55 SF
4021	P - RISER	13.09 SF
4022	P - W/D	2.67 SF
4023	M - RISER	7.69 SF
4024	P - KITCHEN	3.06 SF
4025	M - RISER	7.20 SF
4026	P - BATHROOM	21.25 SF
4027	M - RISER	11.04 SF
4028	P - KITCHEN	3.06 SF
4029	M - RISER	13.45 SF
4030	IT CLOSET	19.69 SF
4031	M - RISER	9.89 SF
4032	P - BATHROOM	14.05 SF
4033	M - RISER	10.52 SF
4034	M - RISER	9.88 SF
4035	M - RISER	11.04 SF
4036	P - BATHROOM	35.43 SF
4037	P - RISER	20.32 SF
4038	P - KITCHEN	3.28 SF
4099	Z - FACADE	187.17 SF
		788.72 SF



LEVEL 40 | 1/8" = 1'-0" | 3 / Z-134.00

ZONING MECHANICAL DEDUCTIONS - LEVEL 34		
NUMBER	NAME	AREA
3401	M - RISER	25.46 SF
3402	M - MECH ROOM	50.92 SF
3403	M - STAIR EXHAUST	39.00 SF
3404	M - RISER	20.99 SF
3405	A - STAIR WIDTH	11.50 SF
3406	A - STAIR WIDTH	15.83 SF
3407	P - BATHROOM	27.67 SF
3408	M - RISER	21.92 SF
3409	P - KITCHEN	3.23 SF
3410	M - RISER	23.15 SF
3411	M - RISER	7.54 SF
3412	P - KITCHEN	3.34 SF
3413	P - BATHROOM	9.75 SF
3414	M - RISER	22.53 SF
3415	P - KITCHEN	3.12 SF
3416	P - RISER	8.75 SF
3417	P - W/D	3.32 SF
3418	P - BATHROOM	49.34 SF
3419	P - RISER	13.52 SF
3420	M - RISER	17.17 SF
3421	P - KITCHEN	6.00 SF
3422	M - RISER	12.48 SF
3423	P - BATHROOM	12.80 SF
3424	M - RISER	17.94 SF
3425	P - BATHROOM	4.45 SF
3426	P - W/D	2.56 SF
3427	M - RISER	10.52 SF
3428	P - KITCHEN	2.77 SF
3429	M - RISER	6.49 SF
3430	P - BATHROOM	18.19 SF
3431	M - RISER	7.33 SF
3432	IT CLOSET	22.90 SF
3433	M - RISER	7.40 SF
3434	P - KITCHEN	3.18 SF
3435	P - W/D	3.19 SF
3436	M - RISER	8.74 SF
3437	P - BATHROOM	35.43 SF
3438	M - RISER	20.32 SF
3439	M - RISER	17.09 SF
3499	Z - FACADE	196.44 SF
		794.28 SF



LEVEL 34 | 1/8" = 1'-0" | 1 / Z-134.00

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JDS DEVELOPMENT GROUP
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tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
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NEW YORK, NY 10279
tel 212.889.9005

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NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 60TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
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EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
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NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
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LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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HACKENSACK, NJ 07601
tel 201.820.2602

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560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
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NEW YORK, NY 10015
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NEW YORK, NY 10005
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NEW YORK, NY 10007
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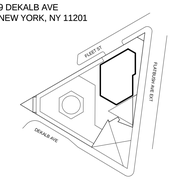

SITE DIAGRAM

07/15/16 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

MECHANICAL DEDUCTIONS - LEVELS 34-39 / 40-44

SEAL & SIGNATURE

REGISTERED ARCHITECT CHRISTOPHER T. PASQUARELLI 026529 STATE OF NEW YORK

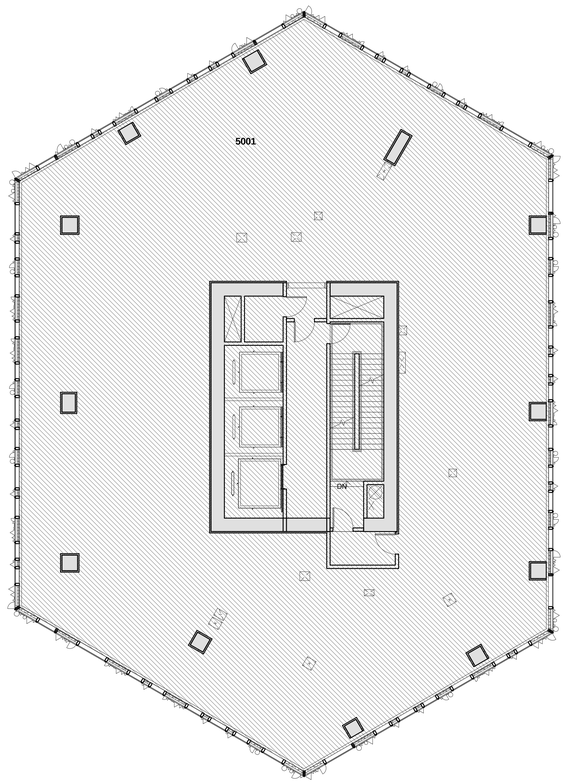
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

Z-134.00

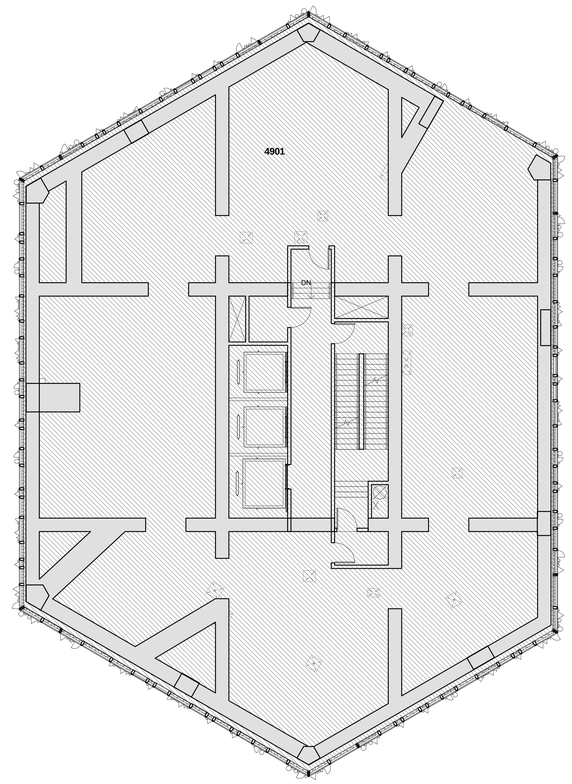
DEPT OF BLDGS 320914338 Job Number
E1511895703 Scan Code

ZONING MECHANICAL DEDUCTIONS - LEVEL 50		
50	NAME	AREA
5001	M - WINDBREAK / MECH FLOOR	7081.48 SF
		7081.48 SF



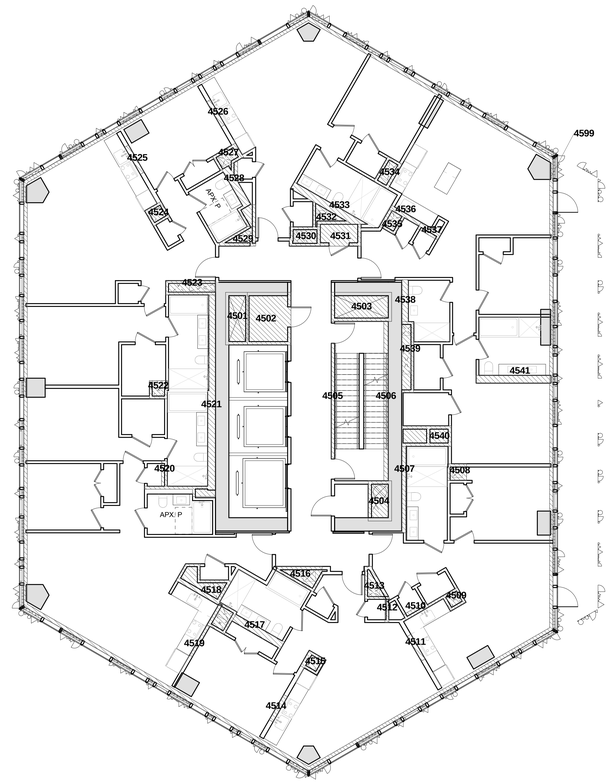
LEVEL 50 | 1/8" = 1'-0" | 4 | Z-145.00

ZONING MECHANICAL DEDUCTIONS - LEVEL 49		
NUMBER	NAME	AREA
4901	M - MECH FLOOR	7081.48 SF
		7081.48 SF



LEVEL 49 | 1/8" = 1'-0" | 3 | Z-145.00

ZONING MECHANICAL DEDUCTIONS - LEVEL 45		
NUMBER	NAME	AREA
4501	M - RISER	25.46 SF
4502	M - MECH ROOM	50.92 SF
4503	M - STAIR EXHAUST	39.00 SF
4504	M - RISER	20.99 SF
4505	A - STAIR WIDTH	11.50 SF
4506	A - STAIR WIDTH	15.83 SF
4507	P - BATHROOM	10.26 SF
4508	M - RISER	7.16 SF
4509	M - RISER	7.91 SF
4510	P - W/D	3.52 SF
4511	P - KITCHEN	2.83 SF
4512	P - W/D	2.07 SF
4513	M - RISER	11.47 SF
4514	P - KITCHEN	2.89 SF
4515	M - RISER	7.97 SF
4516	M - RISER	15.91 SF
4517	P - BATHROOM	10.37 SF
4518	M - RISER	34.23 SF
4519	P - KITCHEN	2.92 SF
4520	P - W/D	3.32 SF
4521	P - BATHROOM	41.69 SF
4522	M - RISER	7.29 SF
4523	M - RISER	15.84 SF
4524	M - RISER	7.57 SF
4525	P - KITCHEN	3.11 SF
4526	P - KITCHEN	2.87 SF
4527	M - RISER	9.73 SF
4528	P - BATHROOM	16.24 SF
4529	M - RISER	10.71 SF
4530	M - RISER	13.32 SF
4531	IT CLOSET	19.84 SF
4532	M - RISER	9.58 SF
4533	P - BATHROOM	13.33 SF
4534	M - RISER	10.52 SF
4535	M - RISER	7.65 SF
4536	P - KITCHEN	3.38 SF
4537	P - W/D	3.79 SF
4538	P - BATHROOM	6.25 SF
4539	M - RISER	19.08 SF
4540	M - RISER	22.76 SF
4541	P - BATHROOM	12.78 SF
4599	Z - FACADE	185.26 SF
		729.11 SF



LEVEL 45 | 1/8" = 1'-0" | 1 | Z-145.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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JAROS, BAUM & BOLLES
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NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.8888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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EAST HANOVER, NJ 07936
tel 646.625.3640

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THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
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NEW YORK, NY 10012
tel 646.666.0846

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JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
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HACKENSACK, NJ 07601
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SIMPSON GUMPERTZ & HEGER
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tel 212.271.7800

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360 PARK AVENUE SOUTH, 15TH FLOOR
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tel 212.689.5389

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BURO HAPPOLD
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NEW YORK, NY 10005
tel 212.334.2025

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WHITE PLAINS, NY 10604
tel 914.495.4290

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tel 212.233.6344

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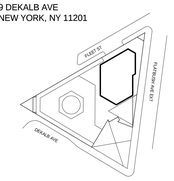

SITE DIAGRAM

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07/15/16	DOB FILING SET			
04/21/16	FD / SOE DOB FILING SET			

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DRAWING TITLE

MECHANICAL DEDUCTIONS - LEVELS 45-48 / 49 / 50

SEAL & SIGNATURE

REGISTERED ARCHITECT JESSICA A. PASQUARELLI STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

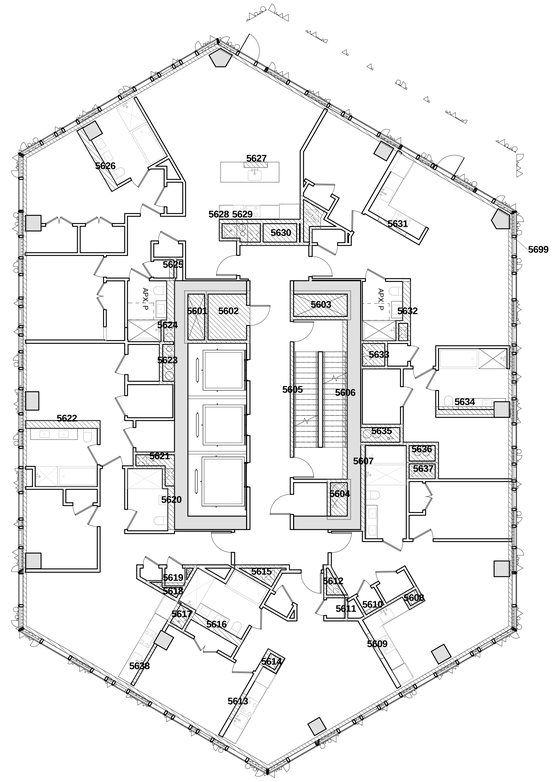
DRAWING NUMBER

Z-145.00

DEPT OF BLDGS 320914338 Job Number

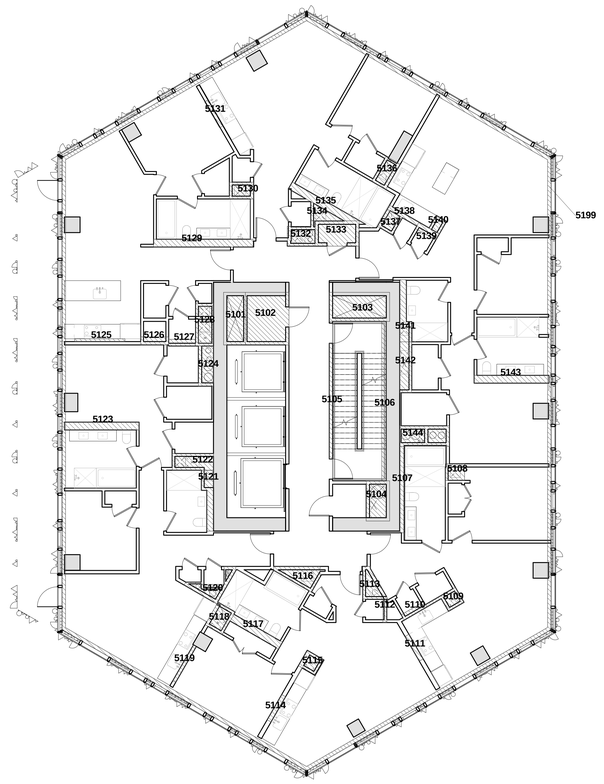
E1504583099 Scan Code

ZONING MECHANICAL DEDUCTIONS - LEVEL 56		
NUMBER	NAME	AREA
5601	M - RISER	25.46 SF
5602	M - MECH ROOM	50.92 SF
5603	M - STAIR EXHAUST	39.00 SF
5604	M - RISER	20.99 SF
5605	A - STAIR WIDTH	11.50 SF
5606	A - STAIR WIDTH	15.83 SF
5607	P - BATHROOM	10.26 SF
5608	M - RISER	7.91 SF
5609	P - KITCHEN	2.83 SF
5610	P - W/D	3.52 SF
5611	P - W/D	2.07 SF
5612	M - RISER	11.47 SF
5613	P - KITCHEN	2.89 SF
5614	M - RISER	7.97 SF
5615	M - RISER	15.91 SF
5616	P - BATHROOM	10.35 SF
5617	M - RISER	11.56 SF
5618	P - RISER	12.58 SF
5619	P - W/D	1.51 SF
5620	P - BATHROOM	11.58 SF
5621	M - RISER	15.26 SF
5622	P - BATHROOM	12.78 SF
5623	P - RISER	14.49 SF
5624	P - BATHROOM	13.28 SF
5625	P - W/D	3.80 SF
5626	P - BATHROOM	11.93 SF
5627	P - KITCHEN	2.86 SF
5628	M - RISER	8.25 SF
5629	P - RISER	5.61 SF
5630	M - RISER	48.16 SF
5631	P - KITCHEN	3.15 SF
5632	P - BATHROOM	13.31 SF
5633	M - RISER	16.84 SF
5634	P - BATHROOM	10.07 SF
5635	P - RISER	19.47 SF
5636	P - RISER	14.39 SF
5637	M - RISER	11.85 SF
5638	P - KITCHEN	3.05 SF
5699	Z - FACADE	175.74 SF
		680.40 SF



LEVEL 56 | 1/8" = 1'-0" | 3 / 2.151.00

ZONING MECHANICAL DEDUCTIONS - LEVEL 51		
NUMBER	NAME	AREA
5101	M - RISER	25.46 SF
5102	M - MECH ROOM	50.92 SF
5103	M - STAIR EXHAUST	39.00 SF
5104	M - RISER	20.99 SF
5105	A - STAIR WIDTH	11.50 SF
5106	A - STAIR WIDTH	15.83 SF
5107	P - BATHROOM	10.26 SF
5108	M - RISER	7.16 SF
5109	M - RISER	7.91 SF
5110	P - W/D	3.52 SF
5111	P - KITCHEN	2.83 SF
5112	P - W/D	2.07 SF
5113	M - RISER	11.47 SF
5114	P - KITCHEN	2.89 SF
5115	M - RISER	7.97 SF
5116	M - RISER	15.91 SF
5117	P - BATHROOM	10.35 SF
5118	M - RISER	11.56 SF
5119	P - KITCHEN	3.09 SF
5120	P - RISER	14.08 SF
5121	P - BATHROOM	11.58 SF
5122	M - RISER	15.26 SF
5123	P - BATHROOM	12.78 SF
5124	P - RISER	13.47 SF
5125	P - KITCHEN	3.05 SF
5126	P - BATHROOM	5.01 SF
5127	P - W/D	4.01 SF
5128	M - RISER	17.15 SF
5129	P - BATHROOM	17.30 SF
5130	M - RISER	9.02 SF
5131	P - KITCHEN	2.98 SF
5132	M - RISER	12.74 SF
5133	IT CLOSET	24.76 SF
5134	M - RISER	7.09 SF
5135	P - BATHROOM	12.19 SF
5136	M - RISER	10.52 SF
5137	M - RISER	7.65 SF
5138	P - KITCHEN	3.38 SF
5139	P - W/D	3.79 SF
5140	M - RISER	3.84 SF
5141	P - BATHROOM	11.66 SF
5142	M - RISER	13.67 SF
5143	P - BATHROOM	12.78 SF
5144	P - RISER	22.76 SF
5199	Z - FACADE	179.44 SF
		712.65 SF



LEVEL 51 | 1/8" = 1'-0" | 1 / 2.151.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

GEOTECHNICAL ENGINEER
MIRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.759.6560

LIGHTING
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227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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246 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7800

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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SITE DIAGRAM

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DRAWING TITLE

MECHANICAL DEDUCTIONS - LEVELS 51-55 / 56-60

SEAL & SIGNATURE

REGISTERED ARCHITECT JESSICA A. PASQUARELLI 026202 STATE OF NEW YORK

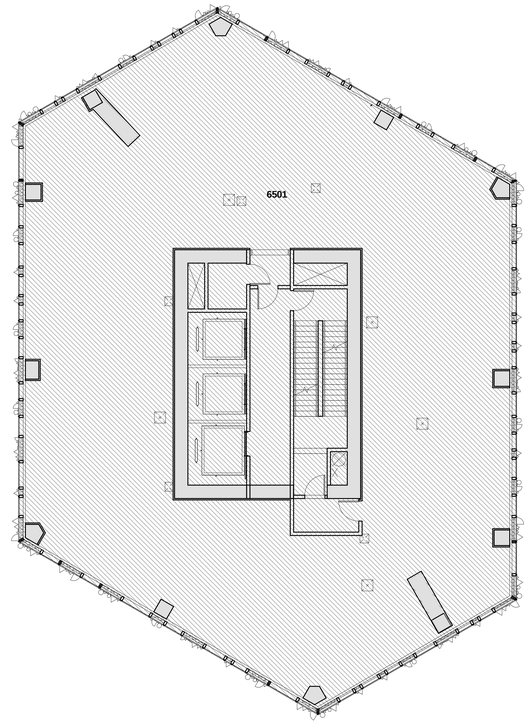
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

Z-151.00

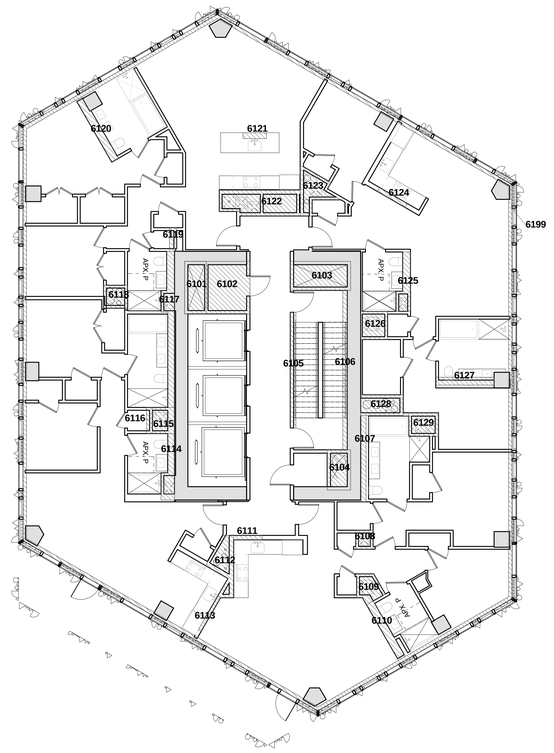
DEPT OF BLDGS 320914338 Job Number
E 320458973 11 Scan Code

ZONING MECHANICAL DEDUCTIONS - LEVEL 65		
NUMBER	NAME	AREA
6501	M - MECH FLOOR	6133.93 SF
		6133.93 SF



LEVEL 65 | 1/8" = 1'-0" | 3 / Z-161.00

ZONING MECHANICAL DEDUCTIONS - LEVEL 61		
NUMBER	NAME	AREA
6101	M - RISER	25.46 SF
6102	M - MECH ROOM	50.92 SF
6103	M - STAIR EXHAUST	39.00 SF
6104	M - RISER	20.99 SF
6105	A - STAIR WIDTH	14.52 SF
6106	A - STAIR WIDTH	15.83 SF
6107	P - BATHROOM	10.26 SF
6108	M - RISER	7.32 SF
6109	M - RISER	13.66 SF
6110	P - BATHROOM	11.13 SF
6111	P - KITCHEN	2.84 SF
6112	P - RISER	22.73 SF
6113	P - KITCHEN	2.90 SF
6114	P - BATHROOM	14.10 SF
6115	M - RISER	12.81 SF
6116	P - W/D	3.42 SF
6117	P - BATHROOM	27.47 SF
6118	P - RISER	12.26 SF
6119	P - W/D	3.82 SF
6120	P - BATHROOM	11.93 SF
6121	P - KITCHEN	3.13 SF
6122	M - RISER	44.07 SF
6123	P - RISER	21.81 SF
6124	P - KITCHEN	3.20 SF
6125	P - BATHROOM	13.31 SF
6126	M - RISER	16.84 SF
6127	P - BATHROOM	10.07 SF
6128	P - RISER	19.47 SF
6129	M - RISER	15.50 SF
6199	Z - FACADE	171.75 SF
		642.50 SF



LEVEL 61 | 1/8" = 1'-0" | 1 / Z-161.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
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tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.759.6540

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237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
246 AMES STREET
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tel 201.820.2602

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NEW YORK, NY 10018
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100 BROADWAY
NEW YORK, NY 10005
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TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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CODE CONSULTANT
METROPOLIS GROUP, INC.
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NEW YORK, NY 10007
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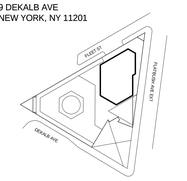

SITE DIAGRAM

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DRAWING TITLE

MECHANICAL DEDUCTIONS - LEVELS 61-64 / 65

SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASQUARELLI STATE OF NEW YORK

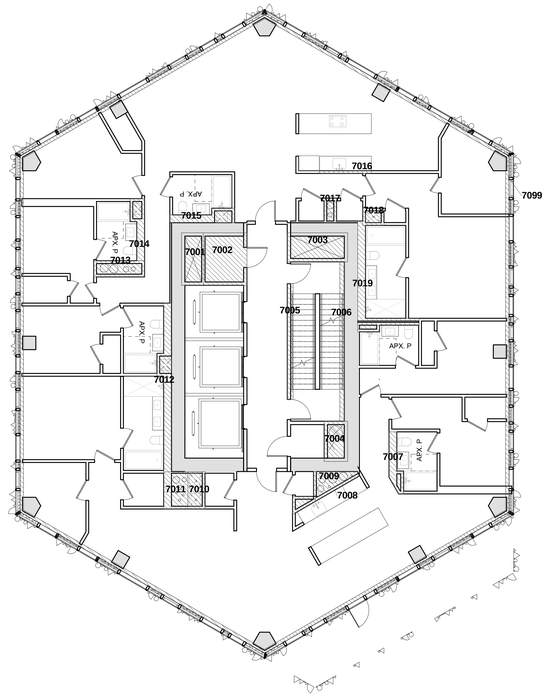
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

DRAWING NUMBER

Z-161.00

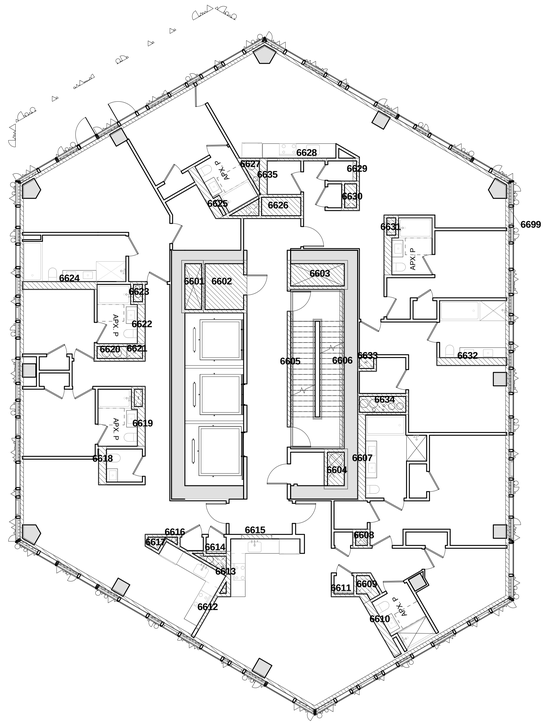
DEPT OF BLDGS 320014338 Job Number
E1016184729 Scan Code

ZONING MECHANICAL DEDUCTIONS - LEVEL 70		
NUMBER	NAME	AREA
7001	M - RISER	25.46 SF
7002	M - MECH ROOM	50.92 SF
7003	M - STAIR EXHAUST	39.00 SF
7004	M - RISER	20.99 SF
7005	A - STAIR WIDTH	15.01 SF
7006	A - STAIR WIDTH	15.83 SF
7007	P - BATHROOM	12.42 SF
7008	P - KITCHEN	3.07 SF
7009	P - RISER	20.44 SF
7010	M - RISER	14.32 SF
7011	P - RISER	20.03 SF
7012	P - BATHROOM	32.74 SF
7013	P - RISER	18.32 SF
7014	P - BATHROOM	14.21 SF
7015	P - BATHROOM	14.69 SF
7016	P - KITCHEN	3.21 SF
7017	P - RISER	6.92 SF
7018	M - RISER	8.13 SF
7019	P - BATHROOM	29.32 SF
7099	Z - FACADE	158.83 SF
		523.86 SF



LEVEL 70 | 1/8" = 1'-0" | 3 | 2-166.00

ZONING MECHANICAL DEDUCTIONS - LEVEL 66		
NUMBER	NAME	AREA
6601	M - RISER	25.42 SF
6602	M - MECH ROOM	50.92 SF
6603	M - STAIR EXHAUST	39.00 SF
6604	M - RISER	20.99 SF
6605	A - STAIR WIDTH	15.01 SF
6606	A - STAIR WIDTH	15.83 SF
6607	P - BATHROOM	15.04 SF
6608	M - RISER	7.32 SF
6609	M - RISER	13.66 SF
6610	P - BATHROOM	10.55 SF
6611	P - W/D	2.23 SF
6612	P - KITCHEN	2.88 SF
6613	P - RISER	16.82 SF
6614	P - W/D	2.50 SF
6615	P - KITCHEN	3.02 SF
6616	P - RISER	3.42 SF
6617	M - RISER	6.96 SF
6618	P - BATHROOM	7.12 SF
6619	P - BATHROOM	13.08 SF
6620	P - RISER	12.85 SF
6621	M - RISER	7.08 SF
6622	P - BATHROOM	6.81 SF
6623	P - RISER	7.40 SF
6624	P - BATHROOM	12.79 SF
6625	P - BATHROOM	13.21 SF
6626	M - RISER	33.93 SF
6627	P - RISER	10.03 SF
6628	P - KITCHEN	3.05 SF
6629	P - W/D	3.27 SF
6630	M - RISER	11.83 SF
6631	P - BATHROOM	13.82 SF
6632	P - BATHROOM	11.96 SF
6633	M - RISER	6.85 SF
6634	P - RISER	24.02 SF
6635	P - BATHROOM	6.32 SF
6699	Z - FACADE	166.99 SF
		623.96 SF



LEVEL 66 | 1/8" = 1'-0" | 1 | Z-166.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.755-0540

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BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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HACKENSACK, NJ 07601
tel 201.820.2602

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560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7800

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10015
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
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TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.495.4290

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METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
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tel 212.233-6344

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SITE DIAGRAM

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DRAWING TITLE

MECHANICAL DEDUCTIONS - LEVELS 66-69 / 70-71

SEAL & SIGNATURE

REGISTERED ARCHITECT GREGG A. PASQUARELLI STATE OF NEW YORK 026909

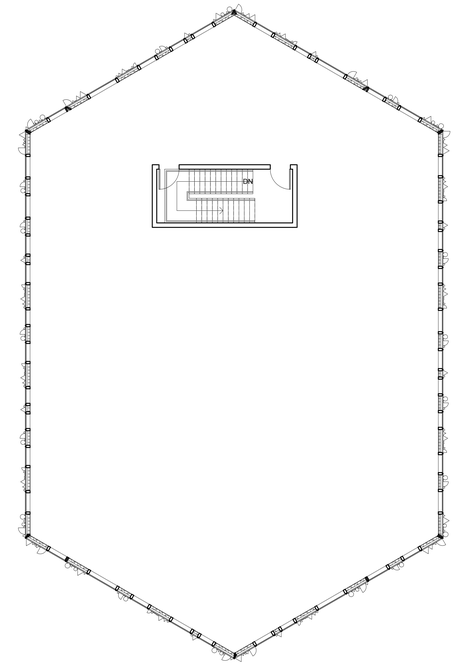
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
JOB NO.	320914338

DRAWING NUMBER

Z-166.00

DEPT OF BLDGS 320914338 Job Number

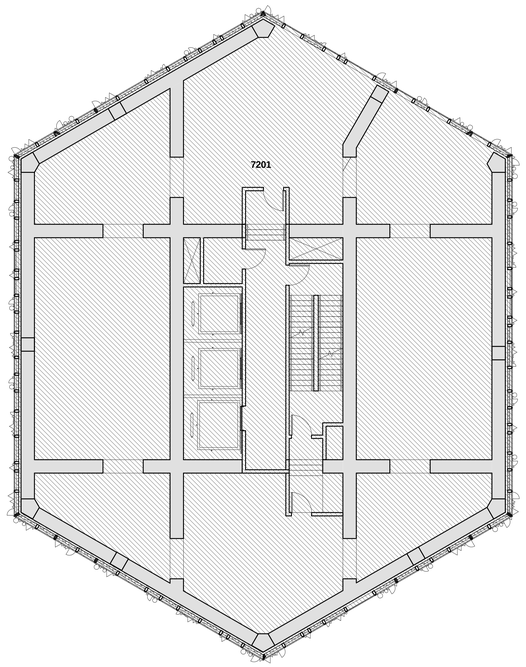
E162559905US Scan Code



ROOF | 1/8" = 1'-0" | 4 / Z-172.00

ZONING MECHANICAL DEDUCTIONS - LEVEL 72

NUMBER	NAME	AREA
7201	M - MECH FLOOR	5590.36 SF
		5590.36 SF



LEVEL 72 | 1/8" = 1'-0" | 1 / Z-172.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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tel 646.666.0846

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NEW YORK, NY 10018
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237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
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HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7000

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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10016
tel 212.689.5389

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100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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WHITE PLAINS, NY 10604
tel 914.495.4290

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22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
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SITE DIAGRAM

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MECHANICAL DEDUCTIONS - LEVELS 72 / ROOF

SEAL & SIGNATURE

REGISTERED ARCHITECT GREGORY A. PASQUARELLI STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	Z-172.00

DEPT OF BLDGS 320914338 Job Number

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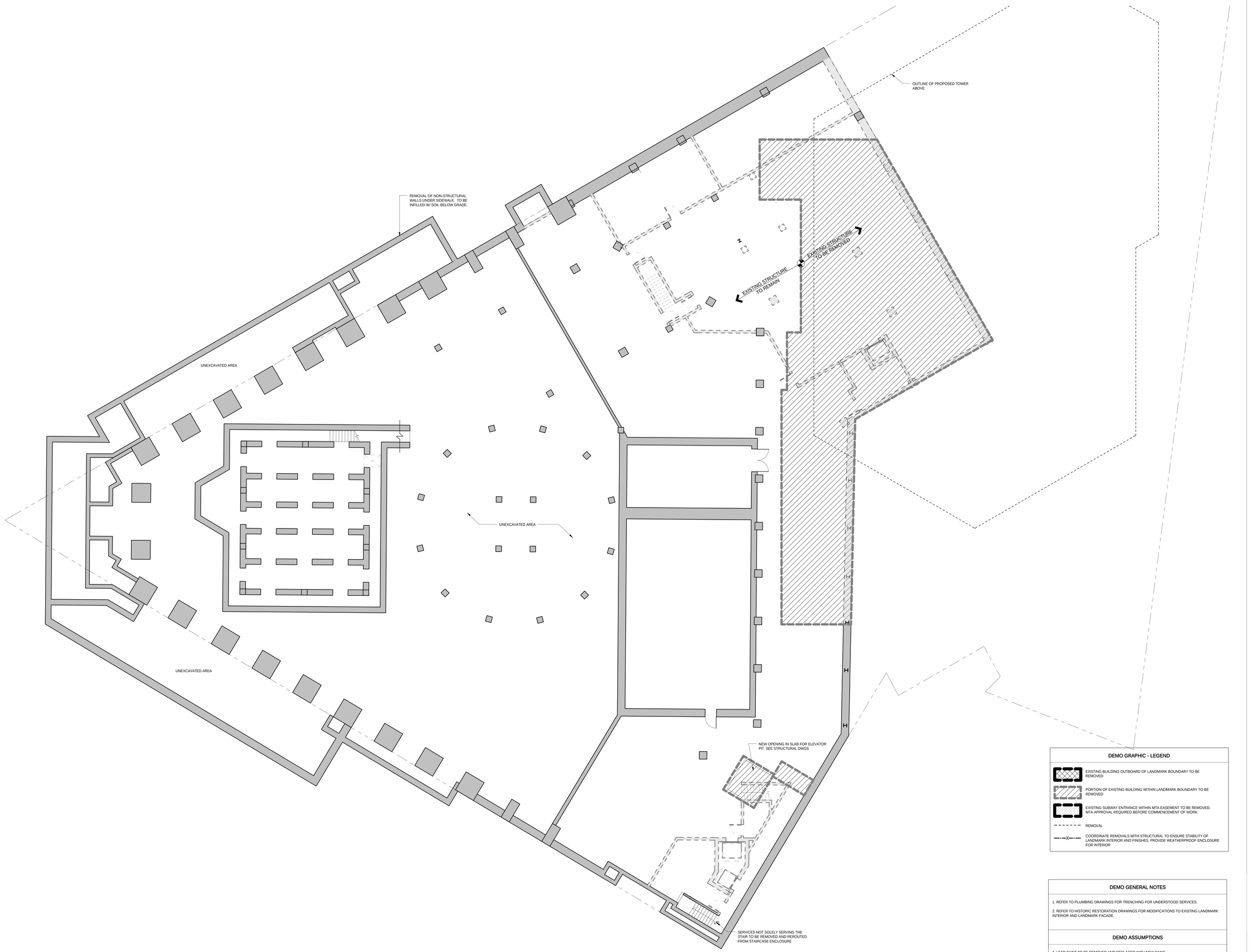

DEMO GRAPHIC - LEGEND

- EXISTING BUILDING OUTBOARD OF LANDMARK BOUNDARY TO BE REMOVED
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DEMO PLAN - SUBCELLAR - SOUTH | 1/8" = 1'-0" | 1 / DM-099.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.487.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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AKRF
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NEW YORK, NY 10016
tel 646.388.9828

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VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST, FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

BOLD

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BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
186 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
260 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2325

TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
310 WESTCHESTER AVENUE
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tel 914.495.4290

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tel 212.233.6344

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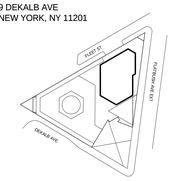

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3/13/15	100% SCHEMATIC DESIGN

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DRAWING TITLE

DEMOLITION PLAN - SUBCELLAR

SEAL & SIGNATURE

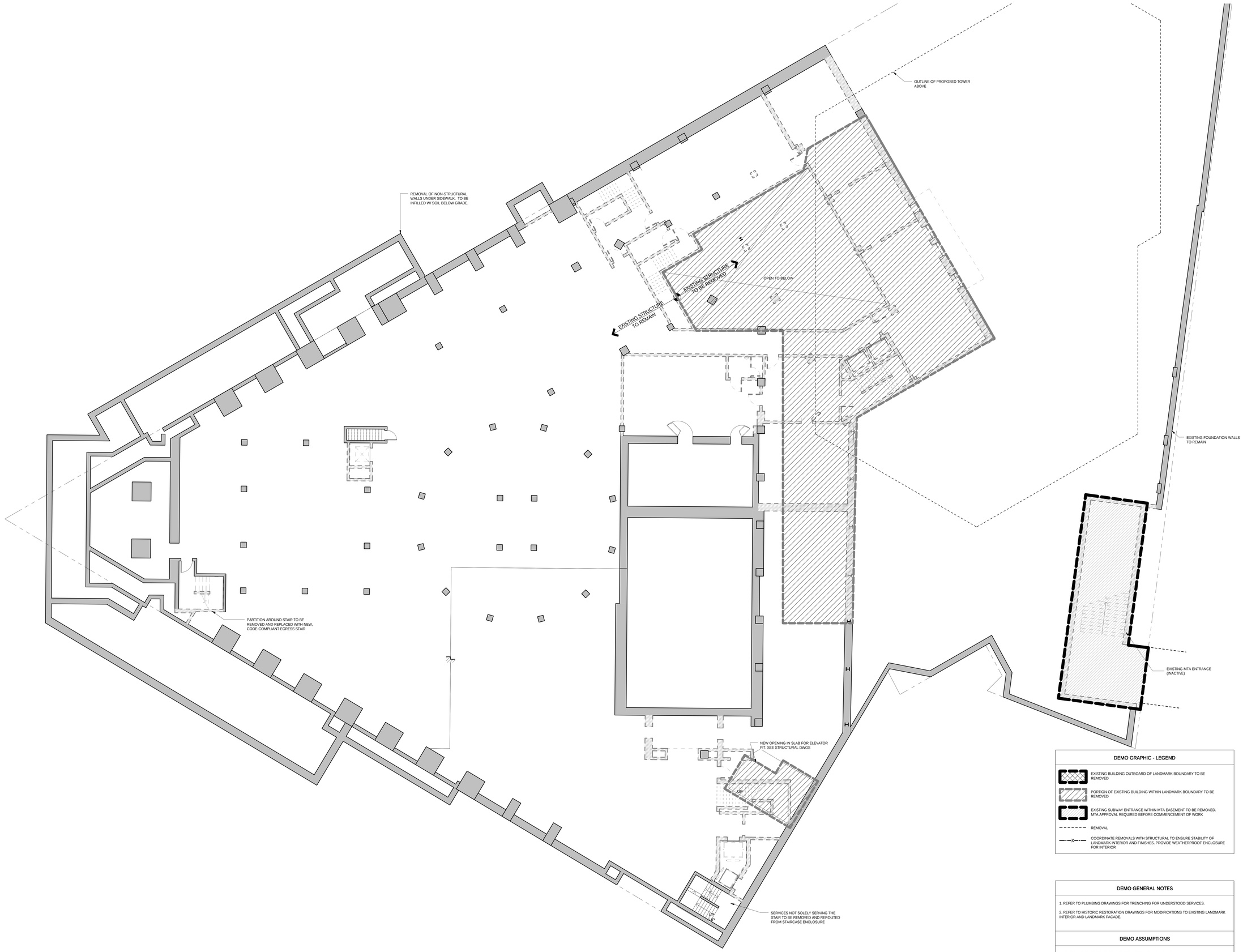
REGISTERED ARCHITECT JOSEPH A. PASQUARELLI STATE OF NEW YORK 029700

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
JOB NO.	320914338

DRAWING NUMBER

DM-099.00

DEPT OF BLDGS 320014338 Job Number
B1800/003255 Order Code



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DEMO PLAN - CELLAR - SOUTH | 1/8" = 1'-0" | 1 / DM-100.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.487.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

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LIGHTING
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237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
146 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.1925

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
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METROPOLIS

CODE CONSULTANT
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22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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DRAWING TITLE

DEMOLITION PLAN - CELLAR

SEAL & SIGNATURE

REGISTERED ARCHITECT JORDAN A. PASQUINELLI 029502 STATE OF NEW YORK

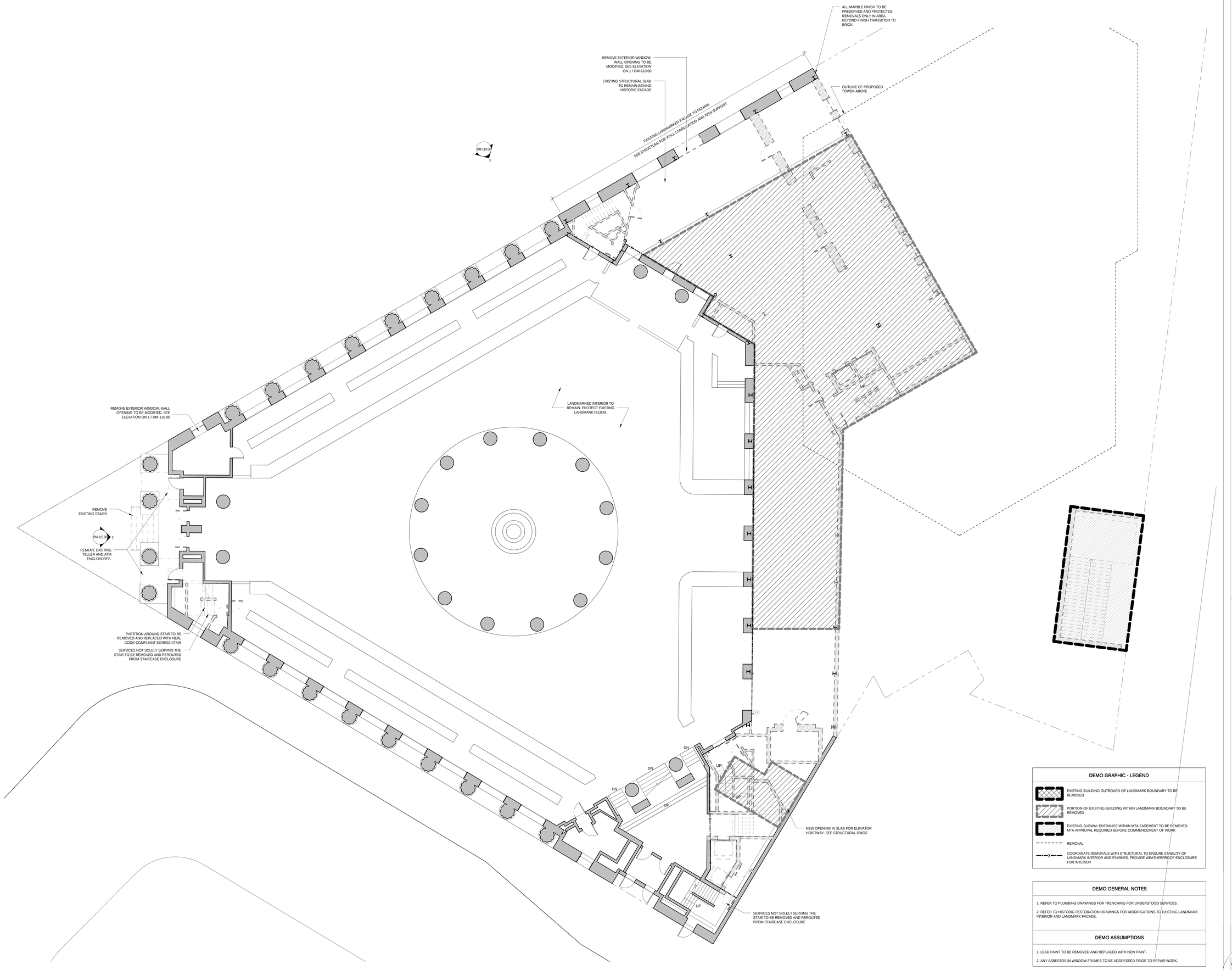
DATE	07/15/16
PROJECT NO.	14042B
DRAWN BY	SHoP
CHECKED BY	SHoP
JOB NO.	320014338

DRAWING NUMBER

DM-100.00

DEPT OF BLDGS320014338 Job Number

E317500497X Scan Code



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DEMO PLAN - LEVEL 01 - SOUTH | 1/8" = 1'-0" | 1 / DM-101.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
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232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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JAROS, BAUM & BOLLES
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NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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EAST HANOVER, NJ 07936
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THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.759.6560

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NEW YORK, NY 10001
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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
166 AMOS STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
590 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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TRACE POOL DESIGN
103 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

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22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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DEMOLITION PLAN - LEVEL 01

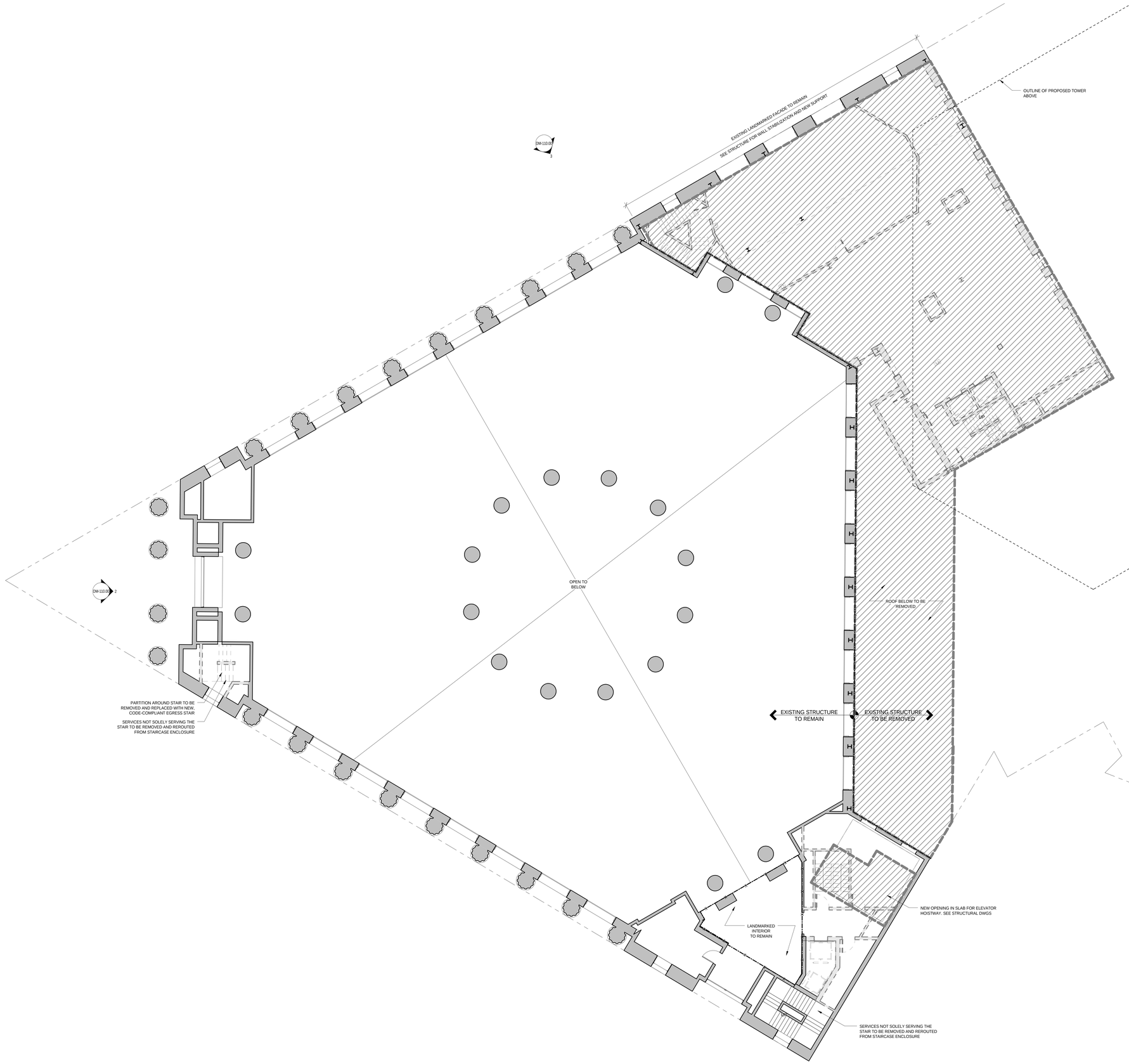
SEAL & SIGNATURE

REGISTERED ARCHITECT GREGORY PASQUARELLI STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
JOB NO.	320914338
DRAWING NUMBER	DM-101.00

DEPT OF BLDGS 320914338 Job Number

E-DOC1162975 Scan Code



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DEMO PLAN - 1ST MEZZ - SOUTH | 1/8" = 1'-0" | 1 / DM-102.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.487.9888

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
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237 WEST 29TH STREET
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LONGMAN LINDSEY
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ENTEK EGNINNERING
166 AMES STREET
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tel 201.820.2602

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SIMPSON GUMPERTZ & HEGER
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260 PARK AVENUE SOUTH, 15TH FLOOR
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POOL
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tel 914.495.4290

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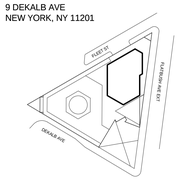

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DRAWING TITLE

DEMOLITION PLAN - 1ST MEZZANINE

SEAL & SIGNATURE

REGISTERED ARCHITECT — GREGG A. PASQUARELLI — STATE OF NEW YORK

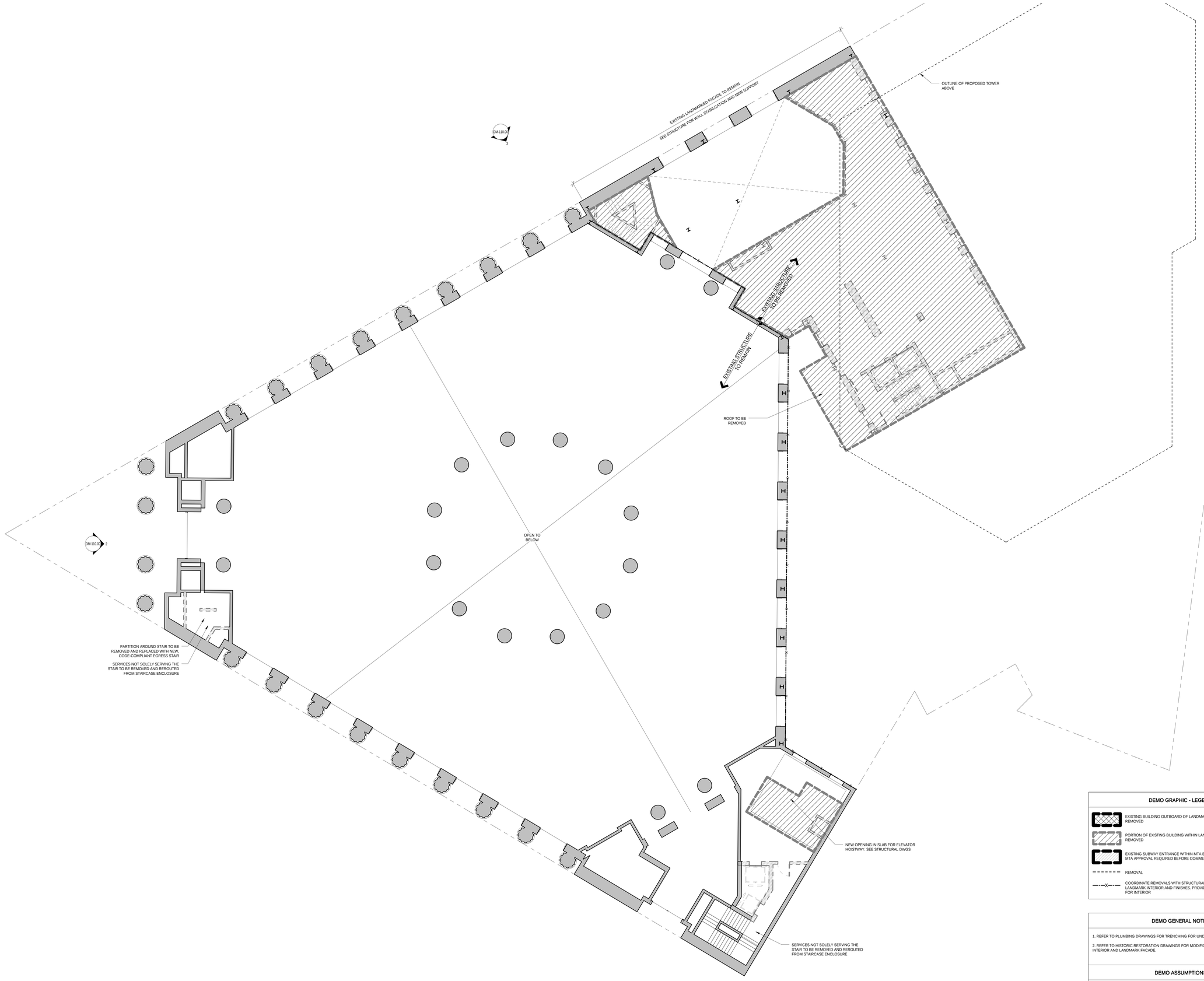
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
CAD NO.	320914338

DRAWING NUMBER

DM-102.00

DEPT OF BLDGS 320914338 Job Number

B3554490535 Scan Code



DEMO GRAPHIC - LEGEND

- EXISTING BUILDING OUTBOARD OF LANDMARK BOUNDARY TO BE REMOVED
- PORTION OF EXISTING BUILDING WITHIN LANDMARK BOUNDARY TO BE REMOVED
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- REMOVAL
- COORDINATE REMOVALS WITH STRUCTURAL TO ENSURE STABILITY OF LANDMARK INTERIOR AND FINISHES. PROVIDE WEATHERPROOF ENCLOSURE FOR INTERIOR

DEMO GENERAL NOTES

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2. REFER TO HISTORIC RESTORATION DRAWINGS FOR MODIFICATIONS TO EXISTING LANDMARK INTERIOR AND LANDMARK FACADE.

DEMO ASSUMPTIONS

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DEMO PLAN - 2ND MEZZ - SOUTH | 1/8" = 1'-0" | 1 / DM-103.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
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NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 45TH STREET
NEW YORK, NY 10017
tel 212.487.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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AKRF
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tel 646.388.9828

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VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION ARCHITECTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.759.6560

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BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK EGINNEERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
260 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10003
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

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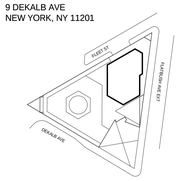

SITE DIAGRAM

07/15/16	DOB FILING SET
02/05/16	100% SD REASSESSMENT
3/13/15	100% SCHEMATIC DESIGN

DATE ISSUE NO. DATE REVISION

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DRAWING TITLE

DEMOLITION PLAN - 2ND MEZZANINE

SEAL & SIGNATURE

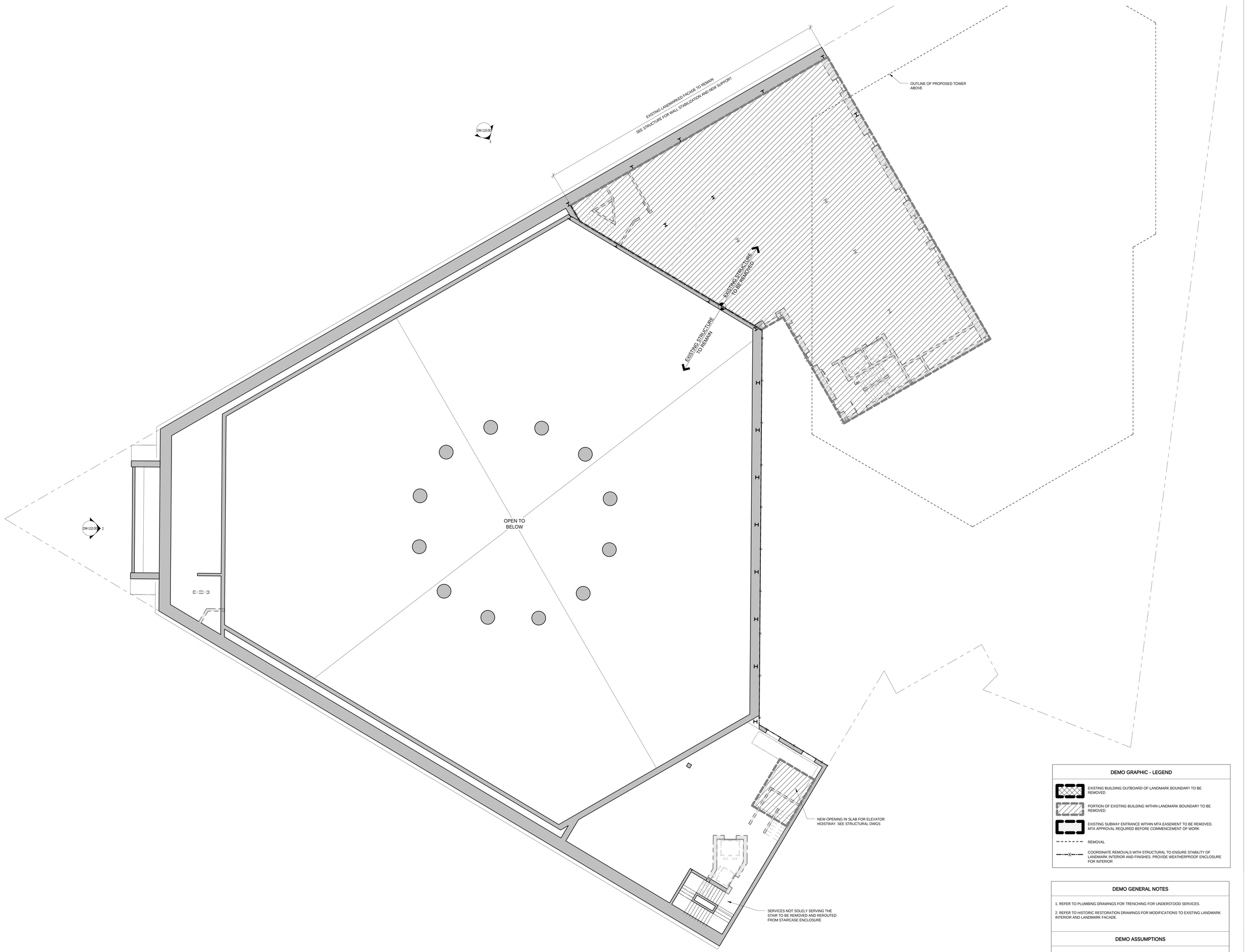
REGISTERED ARCHITECT OMEGA A. PASSOMBEY STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
Job NO.	320914338

DRAWING NUMBER

DM-103.00

DEPT OF BLDGS 320914338 Job Number
E No 110520470 Work Type



DEMO GRAPHIC - LEGEND

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DEMO ASSUMPTIONS

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DEMO PLAN - 3RD MEZZ- SOUTH | 1/8" = 1'-0" | 1 / DM-104.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS BAUM & BOLLES
MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT
INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA
HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.755-0540

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227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
186 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7300

VIDARIS
BUILDING ENERGY
VIDARIS
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NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
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3/13/15	100% SCHEMATIC DESIGN

NO.	DATE	REVISION

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DRAWING TITLE

DEMOLITION PLAN - 3RD MEZZANINE

SEAL & SIGNATURE

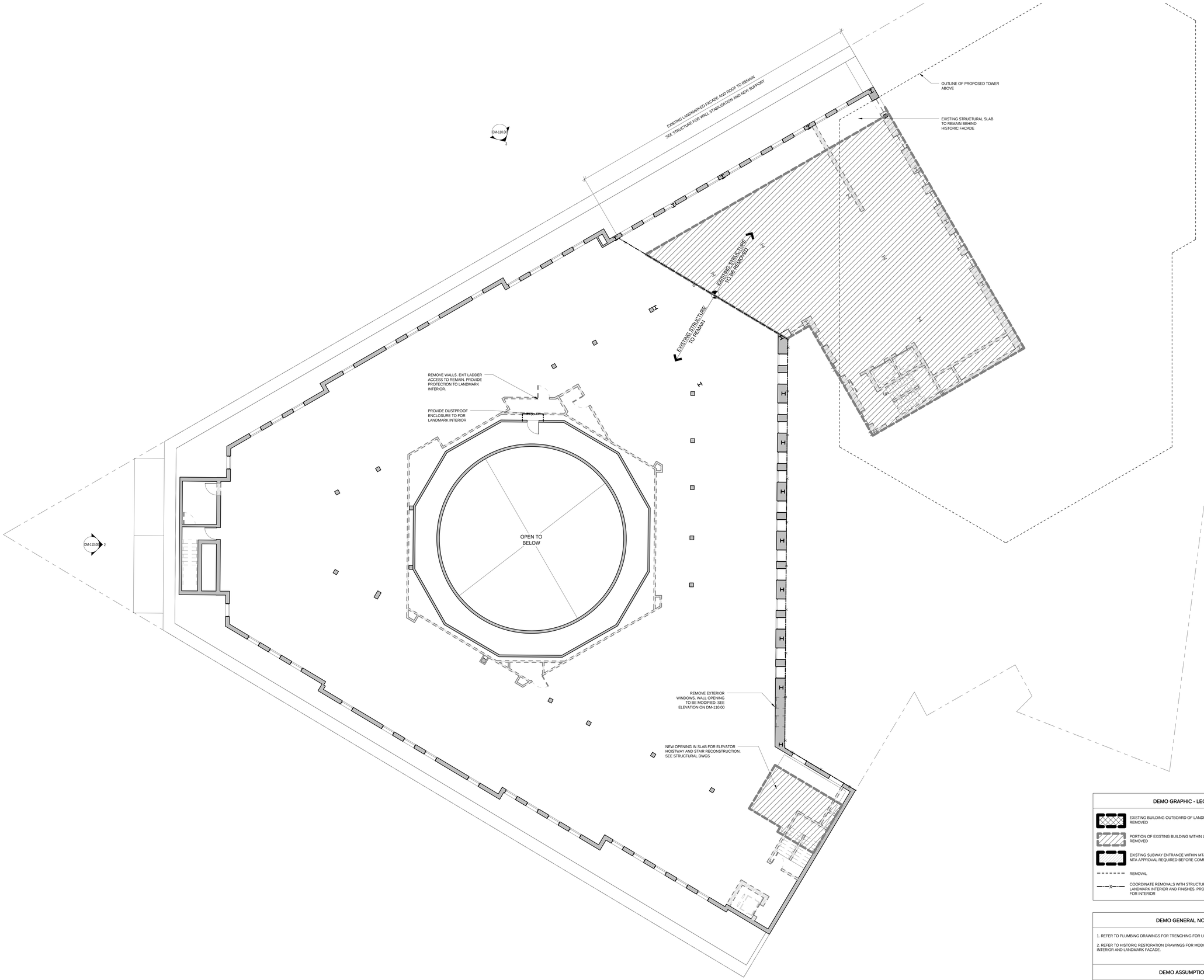
REGISTERED ARCHITECT JOSEPH A. PASQUARELLI STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
JOB NO.	320914338

DRAWING NUMBER

DM-104.00

DEPT OF BLDGS 320914338 Job Number
E-507224835 Scan Code



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DEMO PLAN - LEVEL 02 - SOUTH | 1/8" = 1'-0" | 1 / DM-105.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
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60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 45TH STREET
NEW YORK, NY 10017
tel 212.487.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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FACADE ENGINEER
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51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.759.6560

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NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
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1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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166 AMES STREET
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tel 201.820.2802

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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NEW YORK, NY 10010
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tel 914.495.4290

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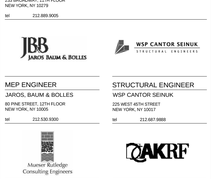

SITE DIAGRAM

DATE	ISSUE
10/06/16	DOB FILING SET REV 2
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DRAWING TITLE

DEMOLITION PLAN - LEVEL 04

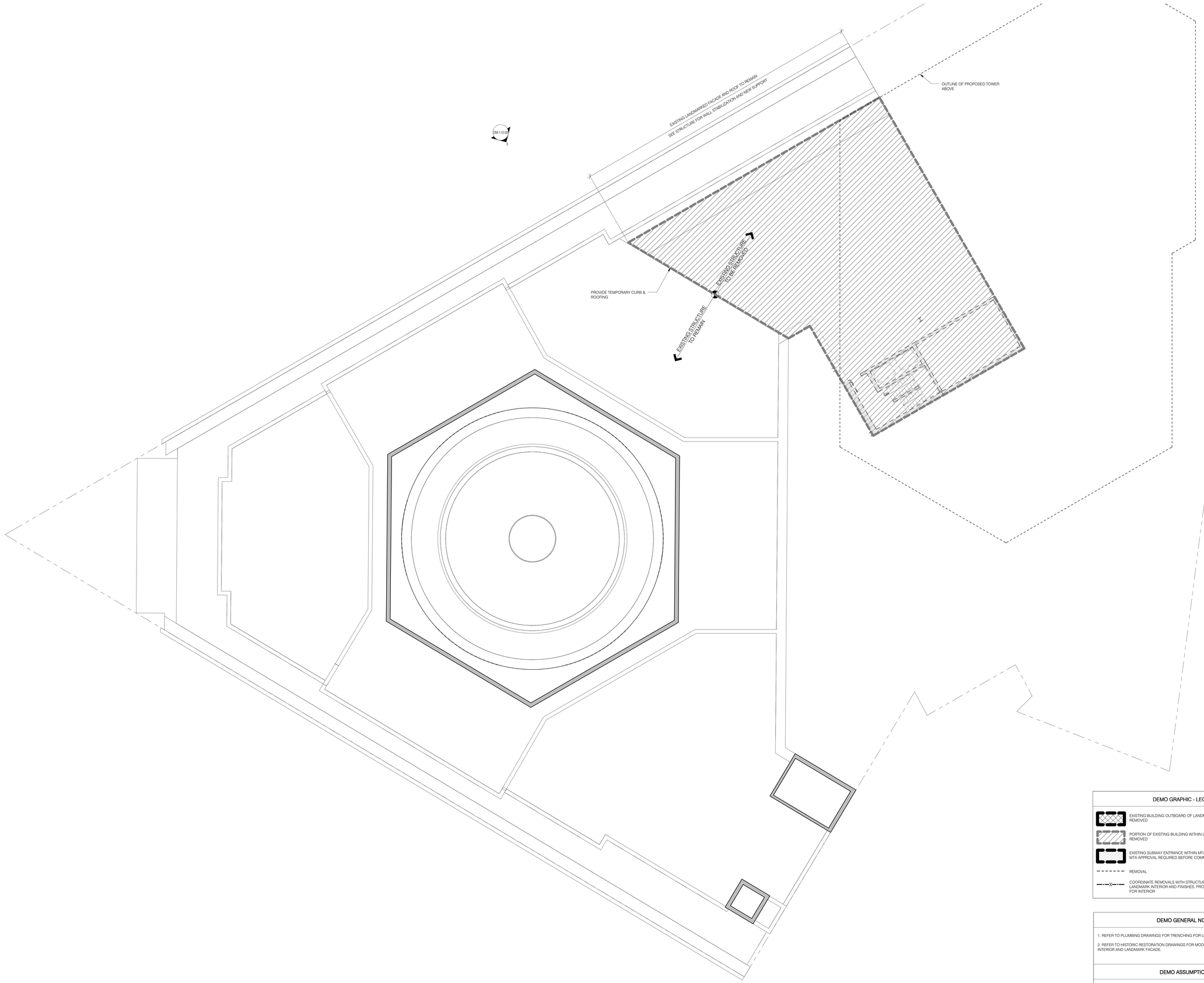
SEAL & SIGNATURE

REGISTERED ARCHITECT GREGORY K. PASQUARELLI 026440 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	DM-105.00

DEPT OF BLDGS 320914338 Job Number

M 551139900B Scan Code



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DEMO PLAN - ROOF - SOUTH | 1/8" = 1'-0" | 1 / DM-106.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9898

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-6540

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BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315-6400

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BMU ENGINEER
ENTEK EGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2325

Lothrop TRACE POOL DESIGN

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TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.495.4390

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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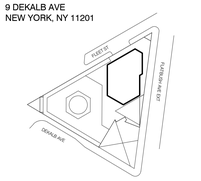
9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
10/06/16	DOB FILING SET REV 2			
07/15/16	DOB FILING SET			
02/05/16	100% SD REASSESSMENT			
3/13/15	100% SCHEMATIC DESIGN			

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DRAWING TITLE

DEMOLITION - LEVEL 05 / ROOF

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DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

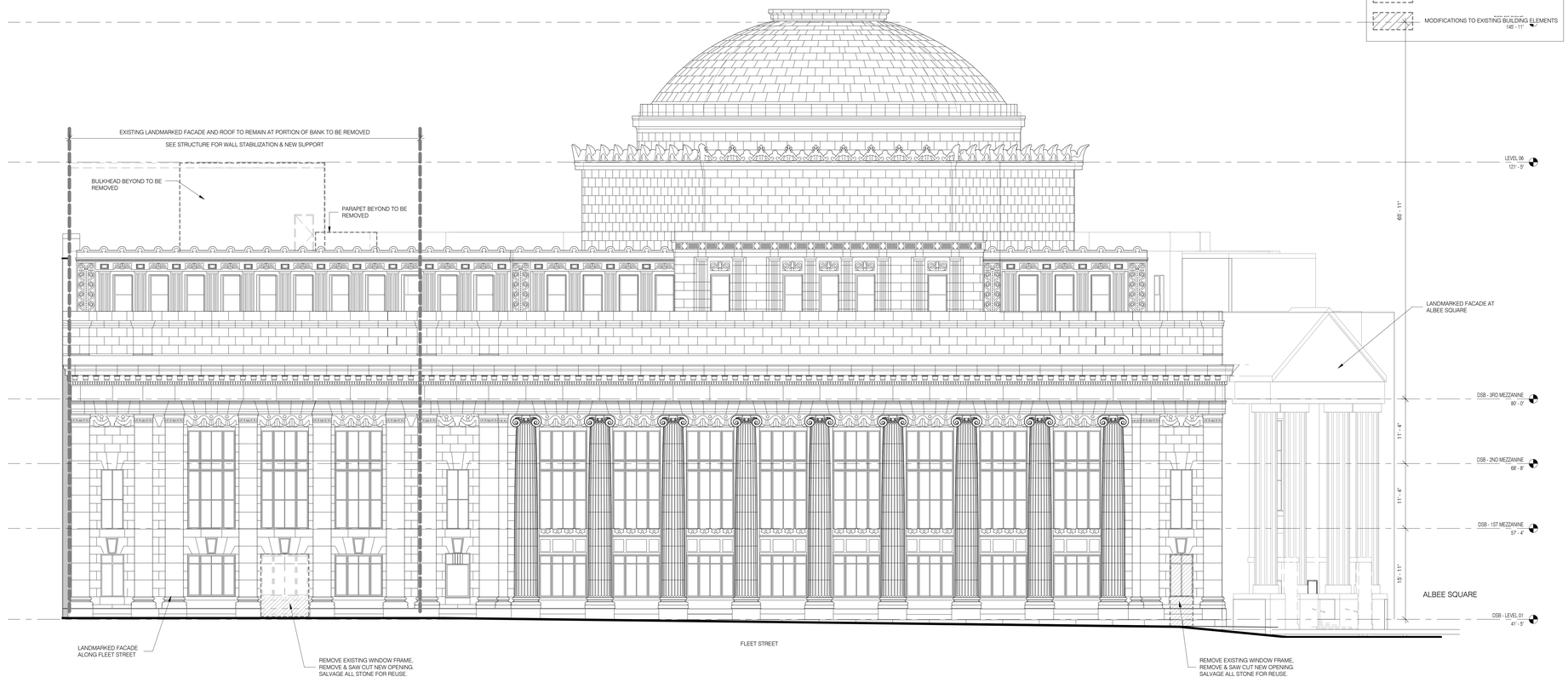
DM-106.00

DEPT OF BLDGS 320914338 Job Number

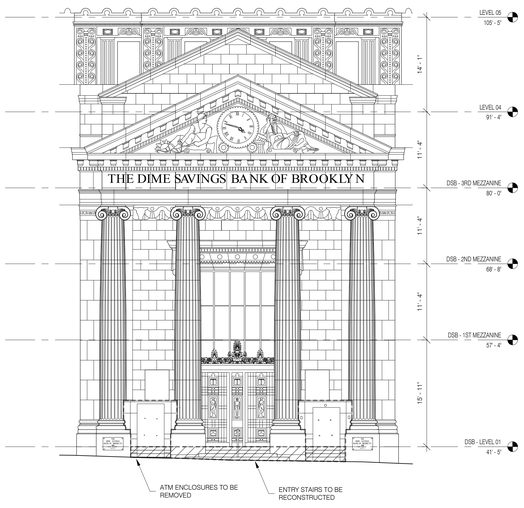
ESX 4507139595 Scan Code

DEMOLITION GRAPHIC - LEGEND

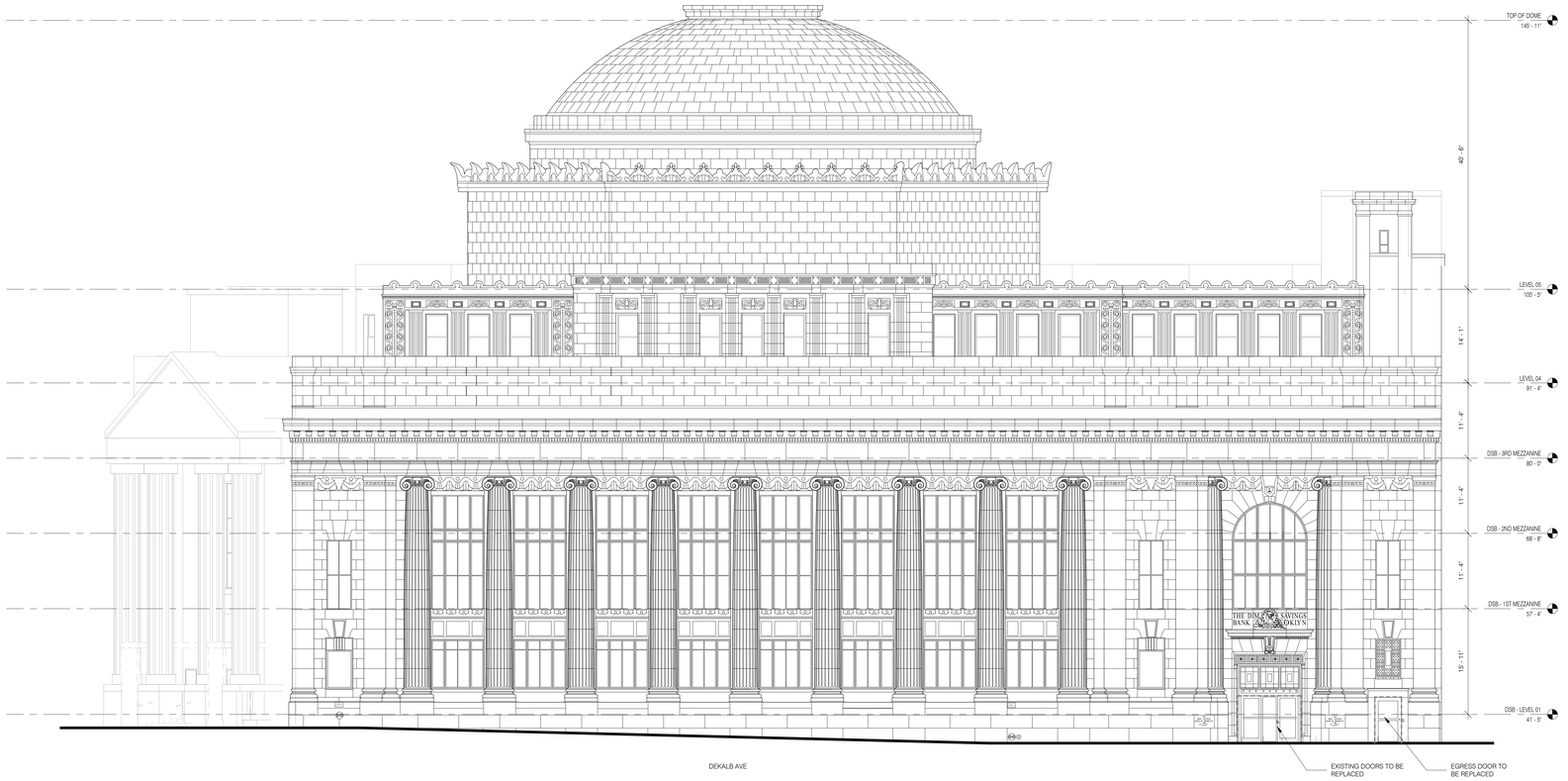
- REMOVAL OF EXISTING BUILDING ELEMENTS
- MODIFICATIONS TO EXISTING BUILDING ELEMENTS



BANK DEMOLITION ELEVATION - FLEET STREET - SOUTH | 1/8" = 1'-0" | 3 | DM-110.00



BANK DEMOLITION ELEVATION - ALBEE SQUARE | 1/8" = 1'-0" | 2 | DM-110.00



BANK DEMOLITION ELEVATION - DEKALB AVE | 1/8" = 1'-0" | 1 | DM-110.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 48TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
39 BROADWAY SUITE 939
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-0540

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237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINEERING
136 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7500

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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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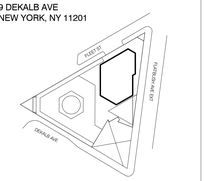
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
10/06/16	DOB FILING SET REV 2
07/15/16	DOB FILING SET
02/05/16	100% SD REASSESSMENT
3/13/15	100% SCHEMATIC DESIGN

NO. DATE REVISION

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DRAWING TITLE

DEMOLITION ELEVATIONS AND SECTIONS

SEAL & SIGNATURE

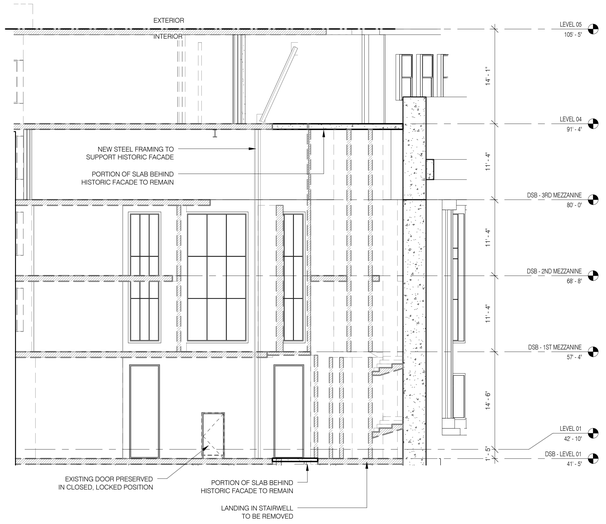
REGISTERED ARCHITECT GREGG A. PASQUARELLI 026906 STATE OF NEW YORK

DATE:	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

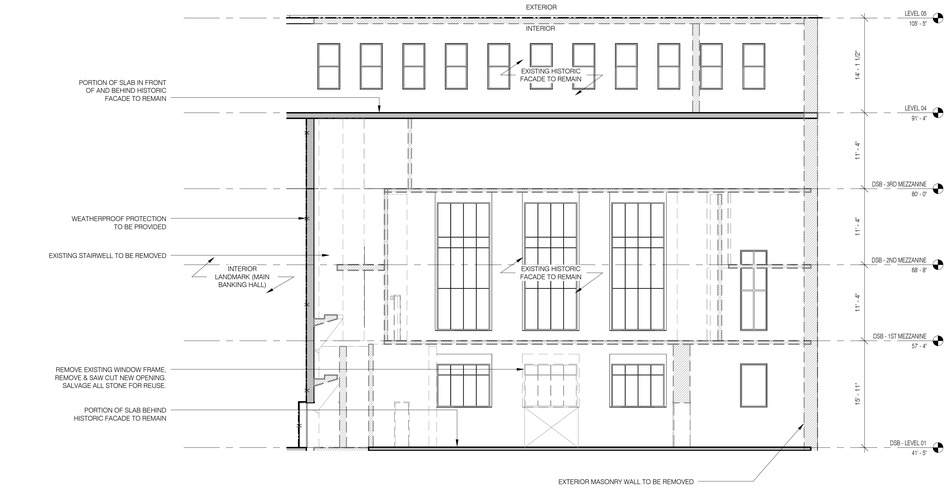
DRAWING NUMBER

DM-110.00

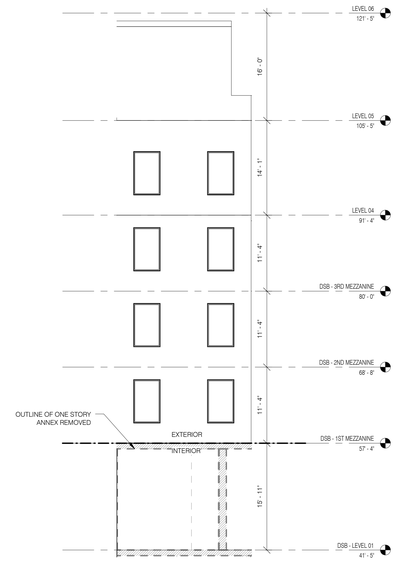
DEPT OF BLDGS 320014338 Job Number
E07552446574 Scan Code



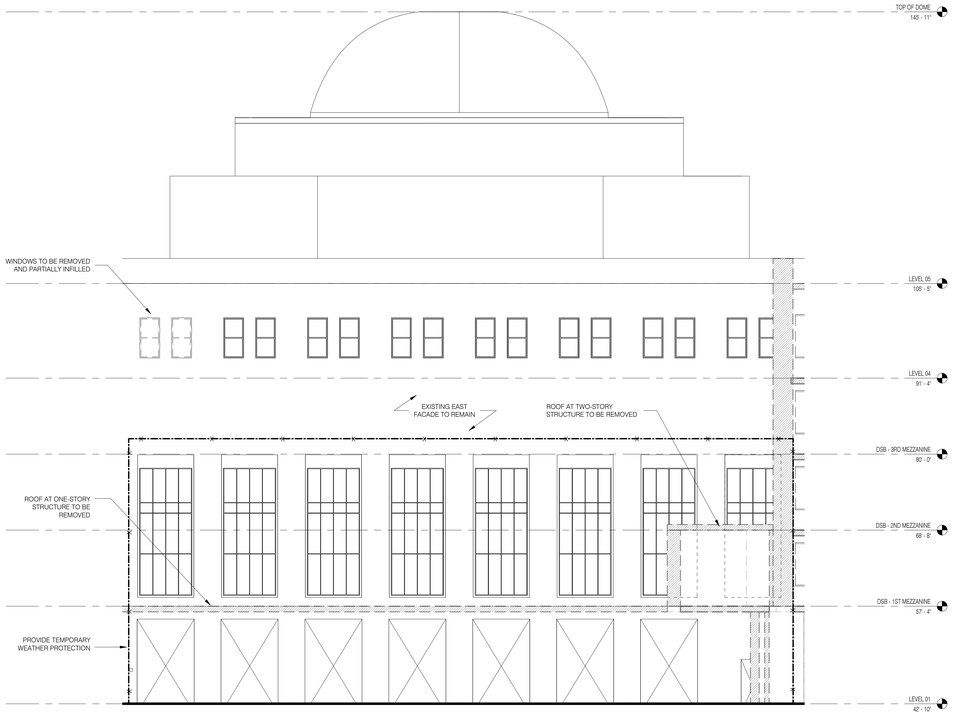
BANK DEMOLITION ELEVATION - FLEET INTERIOR | 1/8" = 1'-0" | 3 | DM-111.00



REMOVALS - SECTION BEHIND FLEET ST HISTORICAL FACADE | 1/8" = 1'-0" | 4 | DM-111.00



BANK DEMOLITION ELEVATION - FAE 2 | 1/8" = 1'-0" | 2 | DM-111.00



REMOVALS - SECTION AT EAST FACADE OF MAIN BANKING HALL | 1/8" = 1'-0" | 1 | DM-111.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 48TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
904 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
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NEW YORK, NY 10001
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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315-6400

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ENTEK ENGINNERING
146 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
260 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lothian TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.455.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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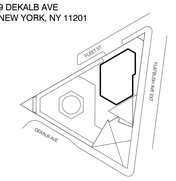
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
10/06/16	DOB FILING SET REV 2
07/15/16	DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

DEMOLITION ELEVATIONS AND SECTIONS

SEAL & SIGNATURE

REGISTERED ARCHITECT GORDON A. PASQUARELLI STATE OF NEW YORK

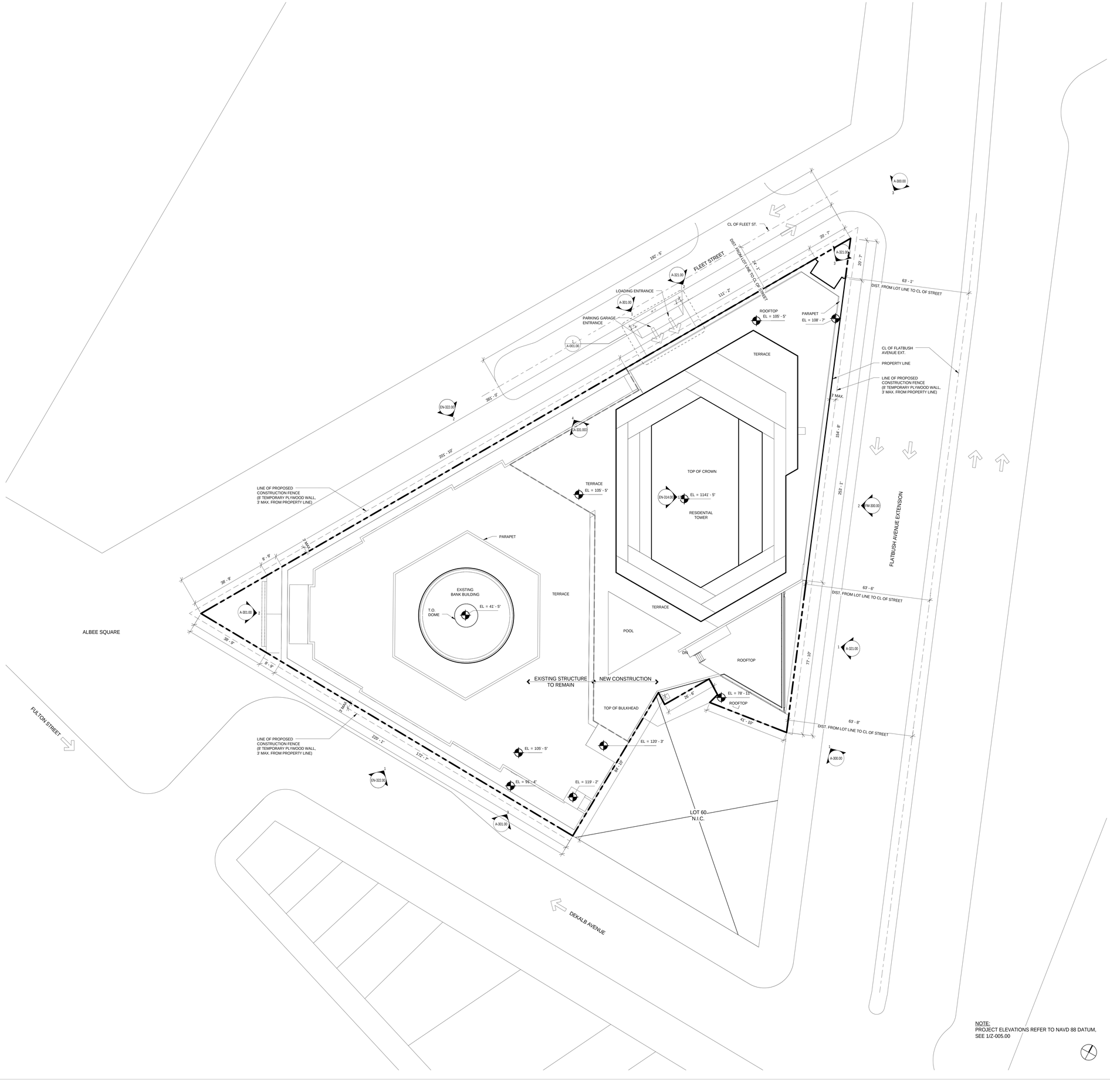
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	320914338

DRAWING NUMBER

DM-111.00

DEPT OF BLDGS 320014338 Job Number

B1000011125 Scan Code



NOTE:
PROJECT ELEVATIONS REFER TO NAVD 88 DATUM, SEE 1/Z-005.00

SITE PLAN | 1/16" = 1'-0" | 1 / A-000.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 GEST 44TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
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HISTORIC PRESERVATION
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NEW YORK, NY 10016
tel 212.759.6560

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ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
590 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
390 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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100 BROADWAY
NEW YORK, NY 10005
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tel 914.495.4290

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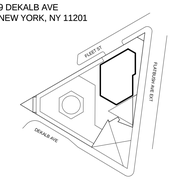

SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
04/21/16	FD / SOE DOB FILING SET
07/01/16	FACADE BID PACKAGE
02/05/16	100% SD REASSESSMENT
05/05/15	DOB FILING SET
3/13/15	100% SCHEMATIC DESIGN

NO.	DATE	REVISION

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SITE PLAN

SEAL & SIGNATURE

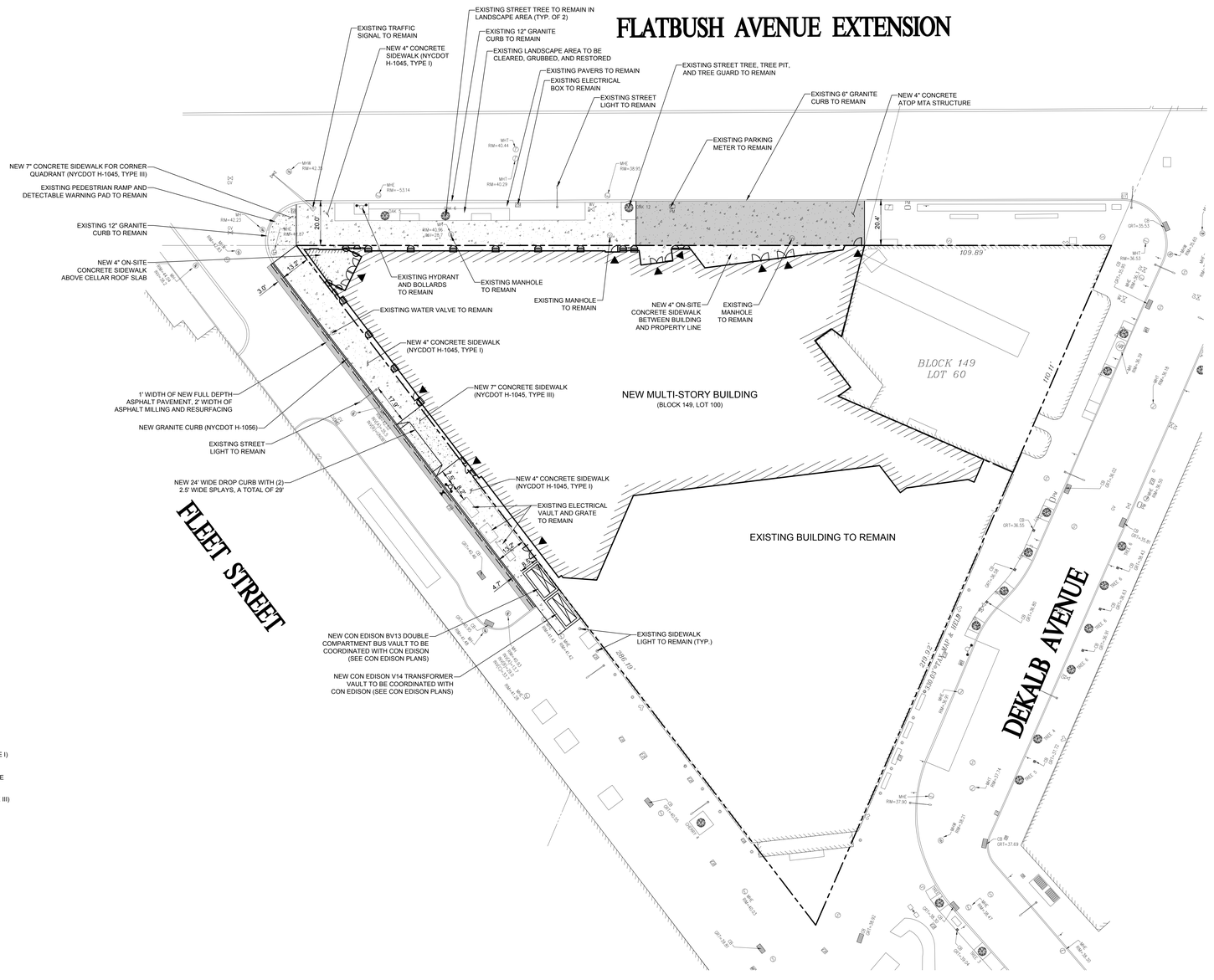
REGISTERED ARCHITECT DONALD J. PASSANTINO 029900 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
JOB NO.	320914338
DRAWING NUMBER	A-000.00

DEPT OF BUILDINGS 320014338 Job Number

B3045272465 Scan Code

FLATBUSH AVENUE EXTENSION



LEGEND

- PROPERTY LINE
- SAWCUT LINE
- NEW BUILDING ACCESS
- NEW 4" CONCRETE SIDEWALK (NYCDOT H-1045, TYPE I)
- NEW 4" CONCRETE SIDEWALK ATOP MTA STRUCTURE
- NEW 7" CONCRETE SIDEWALK (NYCDOT H-1045 TYPE III)
- NEW ASPHALT MILLING AND RESURFACING
- NEW FULL DEPTH ASPHALT PAVEMENT
- NEW HYDRANT, VALVE, AND BOLLARDS

STREET TREE TABLE

TOTAL NUMBER OF TREES PER NYCDOB REQUIREMENTS	15
EXISTING TREES TO BE REMOVED	0
EXISTING TREES TO BE PRESERVED ON-SITE	3
NEW TREES TO BE PLANTED ON-SITE	0
TREES TO BE PLANTED OFF-SITE	0
TREES TO BE PAID INTO TREE FUND	12

0 10 20 40
SCALE: 1" = 20'

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 17TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
229 EAST 40TH STREET, #3
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9628

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.730.6540

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LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNEERING
106 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

SIMPSON GUMPERTZ & HEGER

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
300 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BURO HAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.3325

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4780

METROPOLIS GROUP

CODE CONSULTANT
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22 CORTLANDT STREET, 16TH FLOOR
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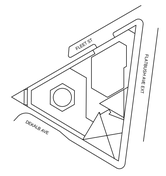

SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
10/06/16	DOB FILING SET REV 2			

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DRAWING TITLE

CURB CUT - DETAILED PLAN

SEAL & SIGNATURE

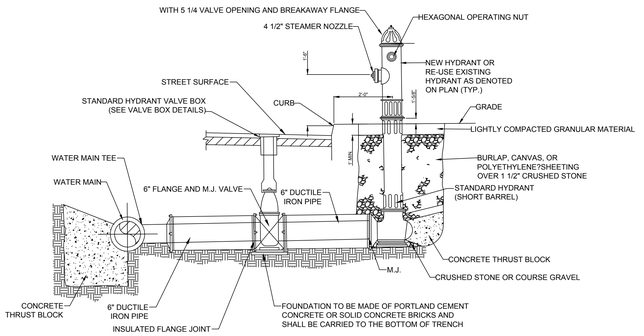
REGISTERED ARCHITECT JOSEPH A. PASSANANTE 029269 STATE OF NEW YORK

DATE	09/30/2016
PROJECT NO.	140429
DRAWN BY	RB
CHECKED BY	MJH
JB NO.	32091-4338

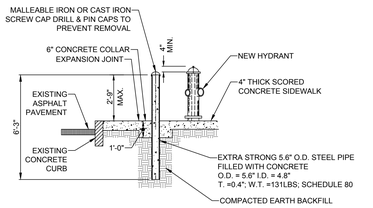
DRAWING NUMBER

A-001.00

DEPT OF BLDGS 320914338 Job Number
E350350010170 Scan Code



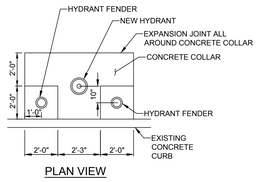
TYPICAL FIRE HYDRANT ASSEMBLY
N.T.S.



HYDRANT FENDER NOTES - BUREAU OF WATER SUPPLY:

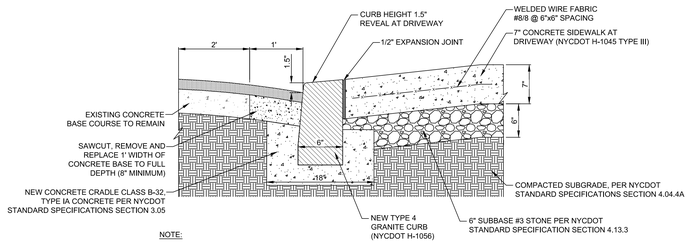
1. CONCRETE COLLARS SHALL BE SQUARED AND MADE FLUSH WITH EXISTING SIDEWALK PAVEMENT AND CURB.
2. ALL PARTS OF HYDRANT FENDER SHALL BE CLEANED OF SCALE, RUST AND DIRT AND COATED ON THE OUTSIDE WITH ONE COAT OF RED LEAD AND ONE COAT OF BLACK ASPHALT PAINT BELOW GROUND AND ONE COAT OF ALUMINUM PAINT ABOVE THE GROUND.

ELEVATION VIEW



PLAN VIEW

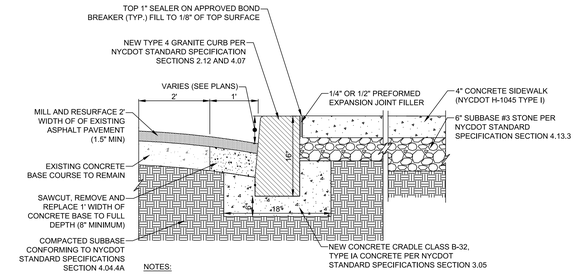
SIDEWALK / HYDRANT FENDER
N.T.S.



NOTE:

1. TO TRANSITION BETWEEN FULL HEIGHT CURB REVEAL AND DEPRESSED CURB REVEAL (1.5" DEPTH), SLOPE TOP VERTICALLY IN 1.5 FEET.

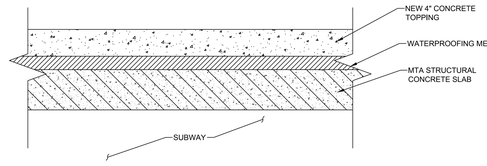
SIDEWALK / DRIVEWAY DROP CURB DETAIL
N.T.S.



NOTES:

1. GRANITE CURB IS TO BE MEDIUM GRAY IN COLOR AS APPROVED BY THE ENGINEER.
2. LENGTHS OF STRAIGHT GRANITE CURB SHALL RANGE FROM 4' TO 12' LONG, 80% OF WHICH SHALL BE 6' OR GREATER.
3. LENGTHS OF CORNER GRANITE CURB SHALL RANGE FROM 3' TO 8' LONG, 80% OF WHICH SHALL BE 4' OR GREATER.
4. LENGTH OF TRANSITION CURB (STRAIGHT OR CURVED) AT CORNERS SHALL BE 5' LONG.
5. EXPOSED SURFACES OF THE GRANITE CURB TO BE DRESSED WITH A BUSH HAMMERED OR THERMAL FINISH, WITH NO DRILL HOLES.

TYPICAL SIDEWALK / GRANITE CURB DETAIL (NYCDOT H-1056)
N.T.S.



MTA 4" SIDEWALK TOPPING DETAIL
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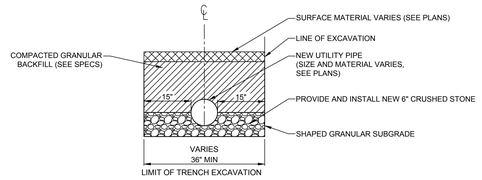

TYPICAL PIPE/UTILITY TRENCH DETAIL
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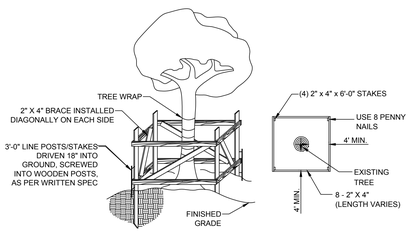
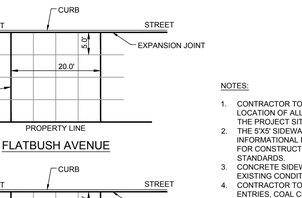
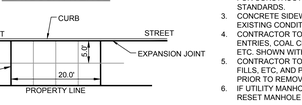


TEMPORARY WOODEN TREE GUARD
N.T.S.



FLATBUSH AVENUE

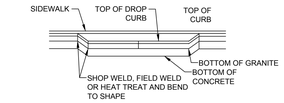


FLEET STREET

NOTES:

1. CONTRACTOR TO REFER TO THE SITE SURVEY DRAWING FOR THE LOCATION OF ALL SURFACE AND UNDERGROUND FACILITIES ALONG THE PROJECT SITE.
2. THE 5'X5' SIDEWALK JOINT LAYOUT INDICATED ON THE PLAN IS FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING JOINTS IN ACCORDANCE WITH NYCDOT STANDARDS.
3. CONCRETE SIDEWALK COLOR SHALL BE ORIGINAL AND MATCH EXISTING CONDITIONS
4. CONTRACTOR TO VERIFY ALL LOCATIONS OF VAULTS, CELLAR ENTRIES, COAL CHUTES, BRICK AND MASONRY BASEMENT WALLS, ETC. SHOWN WITHIN THE LIMITS OF WORK.
5. CONTRACTOR TO CONFIRM ALL UTILITY LOCATIONS, VALVES, OIL FILLS, ETC. AND PROPERLY DISCONNECT OR SHUTDOWN SERVICE PRIOR TO REMOVAL.
6. IF UTILITY MANHOLE IS TO REMAIN, CONTRACTOR RESPONSIBLE TO RESET MANHOLE COVERS TO PROPOSED GRADE (IF NECESSARY).

SIDEWALK JOINT LAYOUT DETAIL
N.T.S.



SIDEWALK / DRIVEWAY DROP CURB LAYOUT DETAIL
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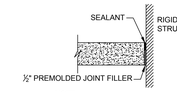
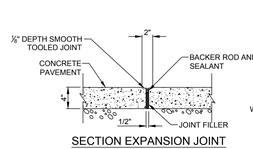


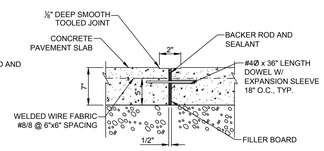
NOTE:

1. PROVIDE ISOLATION JOINT WHERE CONCRETE PAVEMENT ABUTS A RIGID STRUCTURE

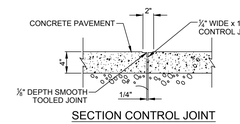
ISOLATION JOINT
N.T.S.



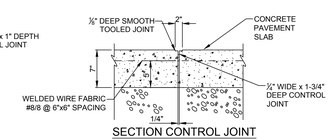
SECTION EXPANSION JOINT



SECTION EXPANSION JOINT



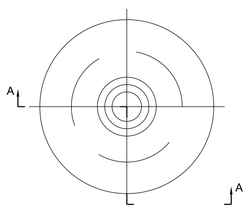
SECTION CONTROL JOINT



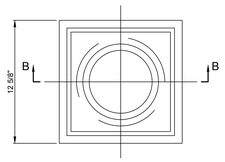
SECTION CONTROL JOINT

4" CONCRETE JOINTS
N.T.S.

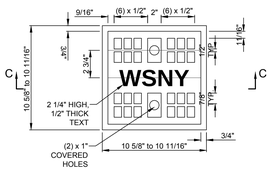
7" CONCRETE JOINTS
N.T.S.



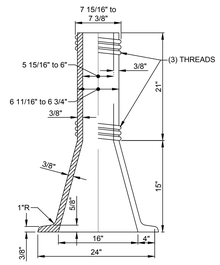
TOP VIEW



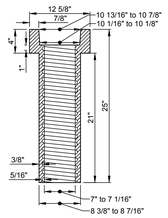
TOP VIEW



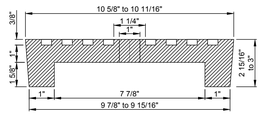
TOP VIEW



SECTION A-A - LOWER PART



SECTION B-B - UPPER PART



SECTION C-C - COVER

DESCRIPTION	ACCEPTABLE WEIGHT (LBS)		
	MIN.	STD.	MAX.
UPPER PART	108	120	126
LOWER PART	117	130	137
COVER	43	48	50

VALVE BOX COMPONENTS

NOTES:
1. THE CASTING SHALL CONFORM TO THE LATEST EDITION OF THE ENYCDEP STANDARD SPECIFICATIONS FOR IRON CASTINGS
2. WHEN TOLERANCE IN DIMENSIONS IS NOT SHOWN, THE VARIATION IN THICKNESS OF METAL SHALL NOT BE GREATER THAN 1/8 INCH. ALL OTHER DIMENSIONS SHALL BE AS SHOWN ON THE DRAWING AND WITHIN THE TOLERANCES CONSISTENT WITH THE BEST FOUNDRY PRACTICE.
3. HYDRANT VALVE BOXES SHALL BE DELIVERED IN ASSEMBLED SETS CONSISTING ONE EACH OF UPPER PART, LOWER PART, AND COVER PER SET. PRIOR TO ASSEMBLY, THE COMPONENTS SHALL BE COATED AS SPECIFIED IN NOTE 1.

HYDRANT VALVE BOX
N.T.S.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 17TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
229 EAST 40TH STREET, #3
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9628

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VERTICAL TRANSPORTATION
VAN DELUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
59 WEST 19TH ST., FLOOR 12A
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.730.6540

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BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

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550 SEVENTH AVENUE, 15TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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380 PARK AVENUE SOUTH, 15TH FLOOR
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tel 212.689.5389

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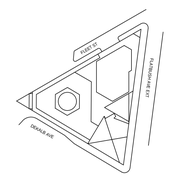
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.3525

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 35TH FLOOR
NEW YORK, NY 10007
tel 212.220.6944



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
10/06/16	DOB FILING SET REV 2			

THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH MAY NOT BE USED FOR OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR COMPLETION OF THIS PROJECT BY OTHERS.

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DRAWING TITLE

CURB CUT AND CIVIL DETAILS

SEAL & SIGNATURE

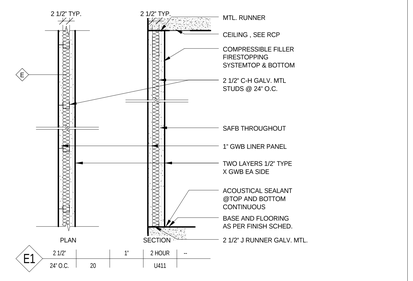
REGISTERED ARCHITECT GREGORY A. PASQUARELLI 026040 STATE OF NEW YORK

DATE	09/30/2016
PROJECT NO.	140429
DRAWN BY	RB
CHECKED BY	MJH
JOB NO.	320914338

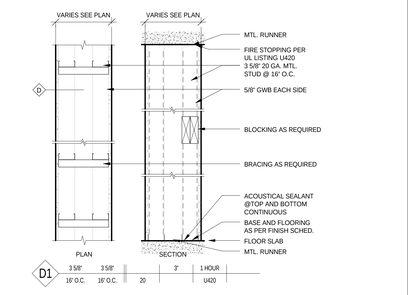
DRAWING NUMBER

A-002.00

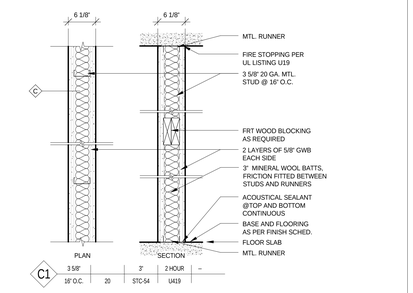
DEPT OF BLDGS320014338 Job Number
E302536481J Scan Code



WALL TYPE E - GWB SHAFT WALL



WALL TYPE D - GWB CHASE WALL



WALL TYPE C - GWB & METAL STUD - 2 HR RATED PARTITION

TYPICAL PARTITION NOTES

1. INSTALL WATER RESISTANT GYP. BD. AT PARTITIONS IN TOILET ROOMS, LOCKER ROOMS AND SHOWER ROOMS, JANITOR CLOSETS AND SIMILAR WET AREAS.

2. INSTALL IMPACT RESISTANT GYP. BD. IN CORRIDORS AND STAIRS.

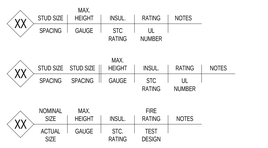
3. INSTALL TYPE 'X' FIRE RATED GYP. BD. AT ALL FIRE PARTITIONS.

4. STC RATINGS PROVIDE ONLY A GENERAL INDICATION OF ACOUSTIC PERFORMANCE UNDER LABORATORY TEST CONDITIONS. CONSTRUCTION DETAILS IN THE DRAWINGS AND SPECIFICATIONS DEFINE REQUIREMENTS FOR THE WORK.

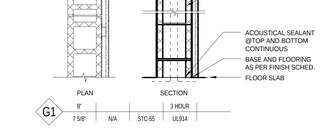
ALL MATERIALS AND INSTALLATION OF RATED ASSEMBLIES SHALL COMPLY WITH TESTING AGENCY REQUIREMENTS LISTED HEREIN
ALL PARTITIONS TO EXTEND FROM SUPPORTING FROM SLAB TO UNDERSIDE OF STRUCT. U.O.N.
TYP. MTL. STUD SIZE FOR INTERIOR PARTITIONS TO BE 63.5MM U.O.N.
TYP. MTL. STUD GAUGE FOR INTERIOR PARTITIONS TO BE 20 GAUGE U.O.N.
WHERE MANUFACTURER'S HEIGHT OR DEFLECTION LIMITATIONS ARE EXCEEDED DUE TO FIELD CONDITIONS, USE HEAVIER GAUGE AND/ OR LARGER STUD SIZE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
PROVIDE CONTINUOUS SHT. MTL BLOCKING (MIN. 3 STUD SPAN) FOR ALL WALL-MTD. FIXTURES, EQUIPMENT AND FITTINGS 152.4MM W X 18 GA. MIN. U.O.N.
PROVIDE WATER-RESISTANT GWB AT ALL 'WET' SPACES AND AREAS INCLUDING, BUT NOT LIMITED TO, BATHROOMS, KITCHENS, LAUNDRY ROOMS, UTILITY ROOMS, MECHANICAL ROOMS, ETC. CEMENT BOARD SHALL BE USED AS A SUBSTRATE AT ALL CERAMIC/ MARBLE TILE INSTALLATIONS.
CONTINUOUSLY SEAL ALL PTN. PERM. EDGES AND ALL PTN. OPNGS./ PENETRATIONS TO MAINTAIN REQUIRED FIRE- RESISTANCE AND/ OR STC RATINGS AT FIRE-RATED AND/ OR AC. ISOL.

MAINTAIN CONTINUITY AND INTEGRITY OF HIGHER FIRE-RATED ASSEMBLIES AT ALL PARTITION INTERSECTIONS.
PROVIDE 12.7MM SLIP JT. AT MTL. STUD PTN. IN TOP CHNL TRACK TO ALLOW FOR FLR. DEFLECTION.
REFER TO ROOM FINISH SCHEDULE FOR APPLIED FINISHES.
TYPICAL LIGHT GAUGHE MTL. LINTEL NOTES AT NON BEARING PTN:
- -ALL LINTEL COMPONENTS TO BE 20 GA. MIN.
- -FOR OPNGS. UP TO 1.8M WIDE DBL. 20.32CM JOISTS
- -FOR OPNGS. UP TO 2.43M WIDE DBL. 25.4CM JOISTS
- -FOR OPNGS. UP TO 3M WIDE DBL. 30.48CM JOISTS
- -FOR OPNGS. > 3M WIDE DBL. REFER TO STRUCTURAL DRAWINGS.

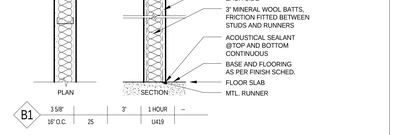
ELECTRICAL OUTLETS BETWEEN ADJACENT DWELLING UNITS IN FIRE RATED DEMISING PARTITIONS WILL BE LOCATED IN SEPARATE STUD CAVITIES. GC TO COORDINATE.
ELECTRICAL OUTLETS W/I EXTERIOR WALLS TO BE LOCATED IN SEPERATE INSULATED STUD CAVITIES. GC TO COORDINATE.
ALL FIRE RATED STL. STUD PARTITIONS SHALL USE TYPE X GWB, U.O.N.



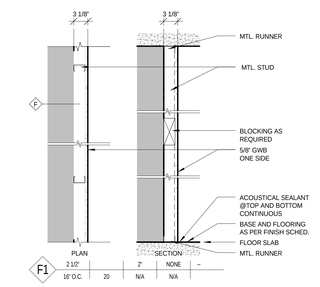
WALL TYPE CHART LEGEND



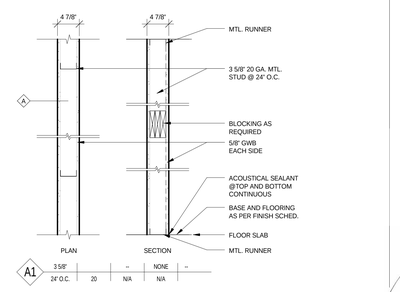
WALL TYPE G1 - CMU - 3 HR RATED



WALL TYPE B - GWB & METAL STUD - 1 HR RATED PARTITION



WALL TYPE F - GWB FURRING - NON RATED



WALL TYPE A - GWB & METAL STUD - NON RATED PARTITION

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.755-0540

BOLD

LIGHTING
BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
246 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

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DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

PARTITION TYPES

SEAL & SIGNATURE

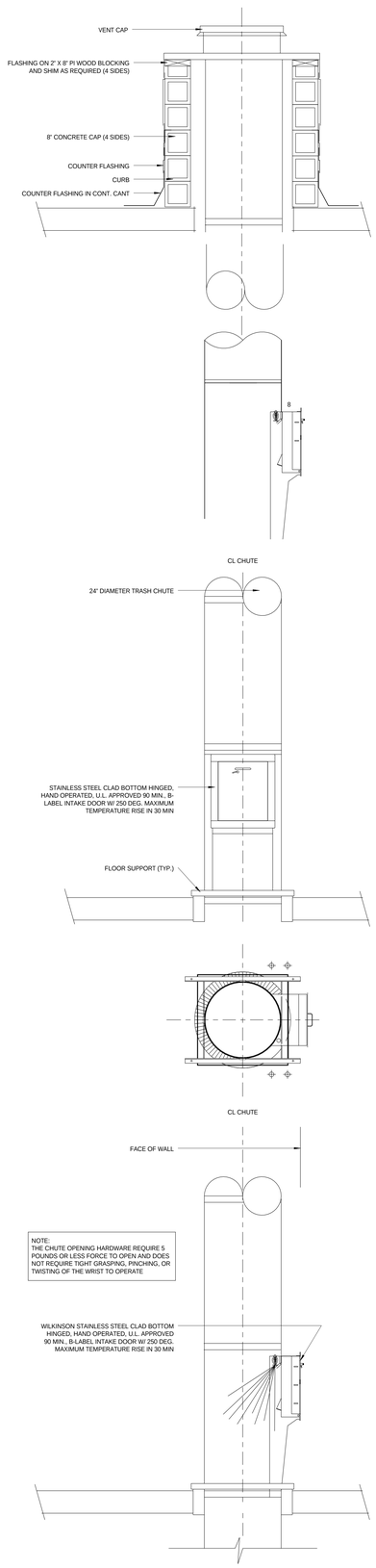
REGISTERED ARCHITECT JOSEPH A. PASCUCCI 026226 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

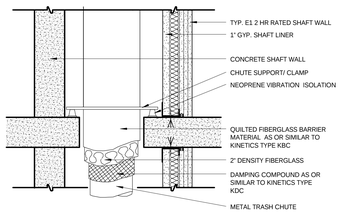
DRAWING NUMBER

A-055.00

DEPT OF BLDGS 320914338 Job Number
ESX20950182 Scan Code

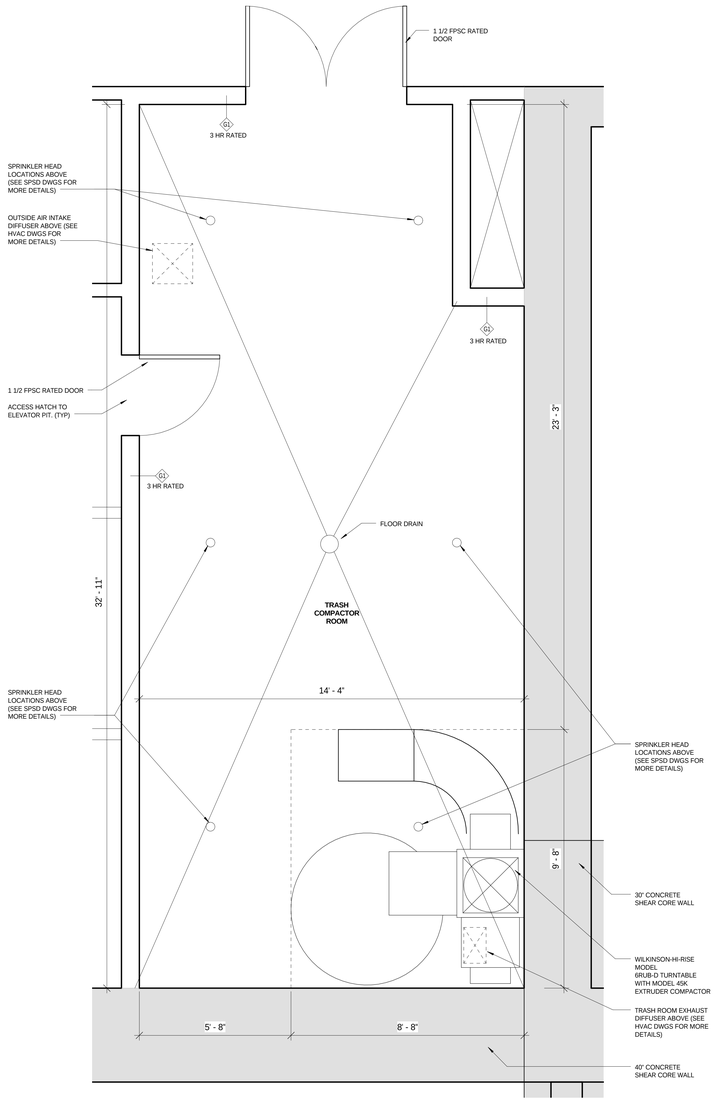


SCHEMATIC SECTION @ TRASH CHUTE | 1" = 1'-0" | 6 | A-070.01

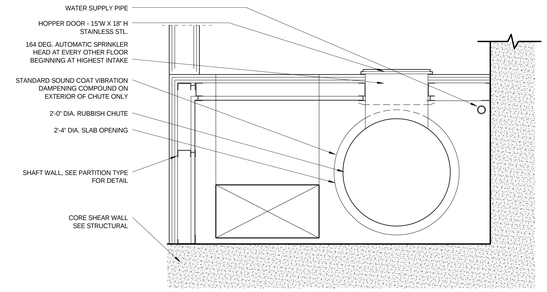


*AS AN ALTERNATIVE, A PROPRIETARY DOUBLE WALL ENCLOSURE MAY BE USED

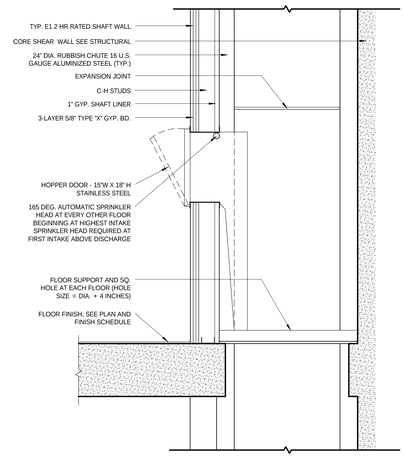
TRASH CHUTE DETAIL | 1 1/2" = 1'-0" | 5 | A-070.01



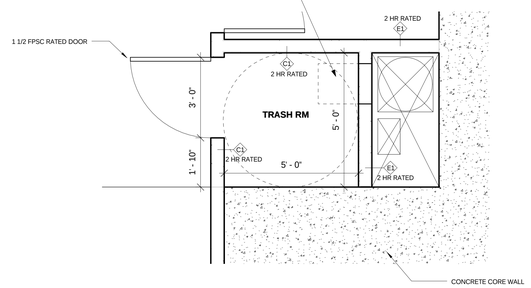
SUBCELLAR - SOUTH - Callout 1 | 1/2" = 1'-0" | 2 | A-070.01



PLAN DETAIL @ TRASH CHUTE | 1" = 1'-0" | 4 | A-070.01



TRASH CHUTE SECTION DETAIL | 1" = 1'-0" | 3 | A-070.01



TYPICAL TOWER RESIDENTIAL FLOOR TRASH ROOM | 1/2" = 1'-0" | 1 | A-070.01

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07/15/16	DOB FILING SET

NO.	DATE	REVISION

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ENLARGED TRASH ROOMS AND DETAILS

SEAL & SIGNATURE

REGISTERED ARCHITECT GREGORY PASQUARELLI 026040 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
JOB NO.	320914338

DRAWING NUMBER

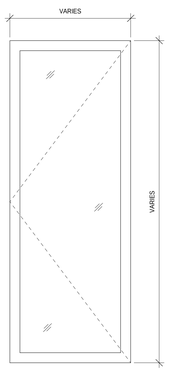
A-070.00

DEPT OF BLDGS 320014336 Job Number
E1564 2482567 Scan Code

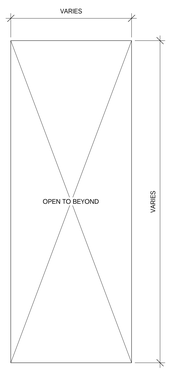
DOOR TYPE LEGEND

- A1 — ENTRY DOOR - RATED 1.5 HOURS
- B1 — SINGLE DOOR - NOT RATED
- C1 — W/D DOOR - NOT RATED
- D1 — POCKET DOORS - NOT RATED
- E1 — TYPICAL DOUBLE DOORS - NOT RATED
- F1 — STAIRS/CLOSET/STORAGE SINGLE DOOR - RATED 1.5 HOURS
- G1 — STAIRS/CLOSET/STORAGE DOUBLE DOOR - RATED 1.5 HOURS
- H1 — UNITS/CORRIDORS - NOT RATED
- J1 — INTERIOR GLASS DOORS - NOT RATED

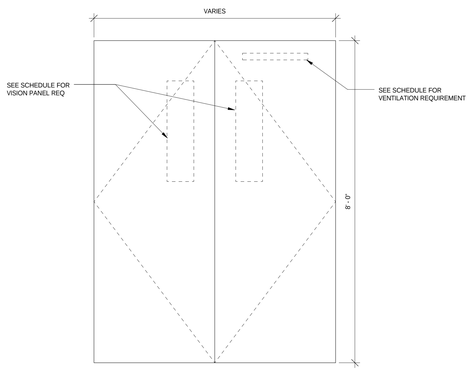
TYPE	DOOR WIDTH	DOOR HEIGHT	MATERIAL	THICKNESS	FINISH	FIRE RATING	HEAD/JAMB	SADDLE TYPE	HW SET	REMARKS
A1	3' - 0"	8' - 0"	HM			90 MIN				FPSC DOOR
B1	VARIES	8' - 0"	SW	0' - 1 3/4"		NR				
C1	2' - 2"	8' - 0"	SW	0' - 1 3/4"		NR				
D1	2' - 10"	8' - 0"	SW	0' - 1 3/4"		NR				
E1	VARIES	8' - 0"	SW	0' - 1 3/4"		NR				
F1	VARIES	VARIES	HM	0' - 1 3/4"		90 MIN				FPSC DOOR
G1	VARIES	8' - 0"	HM	0' - 1 3/4"		90 MIN				FPSC DOOR
H1	VARIES	VARIES	-			NR				
J1	VARIES	VARIES	GL			NR				



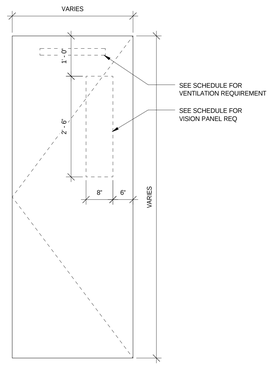
J1 - GLS-INT-DR



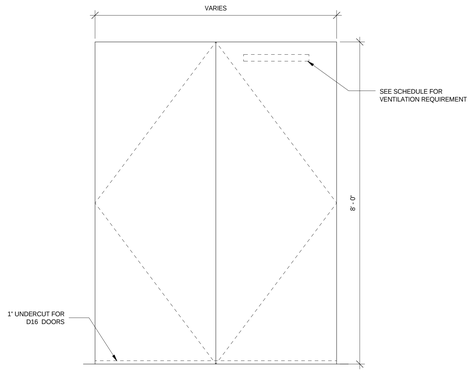
H1 - DR-OPENING



G1 - HM-DBL-DR

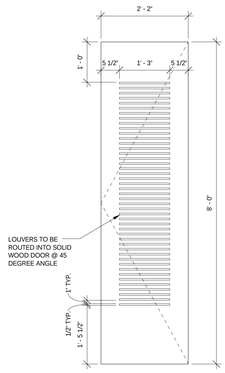


F1 - HC-MTL-SNGL-DR

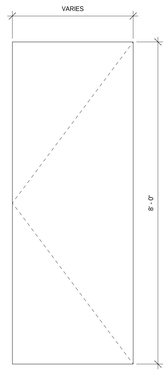


E1 - SC-WD-DBL-DR

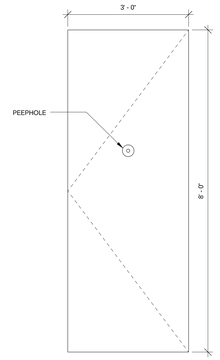
D1 - SC-WD-PCKT-DR



C1 - SC-WD-SGL-DR W/ LOUVERS



B1 - SC-WD-SGL-DR



A1 - HC-MTL-SNGL-DR

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DRAWING TITLE

INTERIOR DOOR TYPES

SEAL & SIGNATURE

REGISTERED ARCHITECT GREGORY TARGOWSKI STATE OF NEW YORK

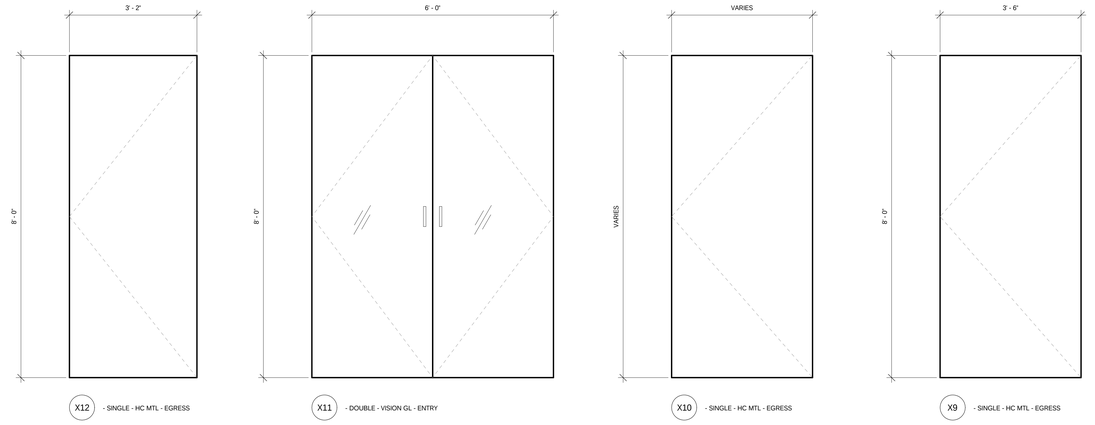
DATE	11/28/16
PROJECT NO.	140429
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	A-071.00

DEPT OF BLDGS 320014336 Job Number
E 3001210001 Scan Code

TYPE	DOOR WIDTH	DOOR HEIGHT	MATERIAL	FINISH	FIRE RATING	OPERATION	DESCRIPTION
X1	VARIES	7' - 0"	GL	GL-01	NR	TBD	
X2	3' -6"	8' - 0"	HM	MT-17	NR	TBD	
X3	3' - 6"	8' - 0"	HM	VARIES	NR	ELEC	
X4	6' - 2"	9' - 0"	GL	GL-05	NR	TBD	
X5	13' - 8 1/2"	14' - 6"	HM	TBD	NR	TBD	
X6	3' - 6"	8' - 0"	GL	GL-05	NR	PANIC	
X7	7' - 4"	9' - 0"	GL	GL-06	NR	TBD	
X8	7' - 4"	9' - 0"	GL	GL-06	NR	TBD	
X9	3' - 6"	8' - 0"	HM	MT-17	NR	PANIC	
X10	3' - 2"	8' - 0"	HM	TBD	90 MIN	PANIC	FPSC DOOR
X11	6' - 0"	8' - 0"	GL	TBD	NR	KEYCARD	
X12	3' - 2"	8' - 0"	HM	TBD	NR	PANIC	

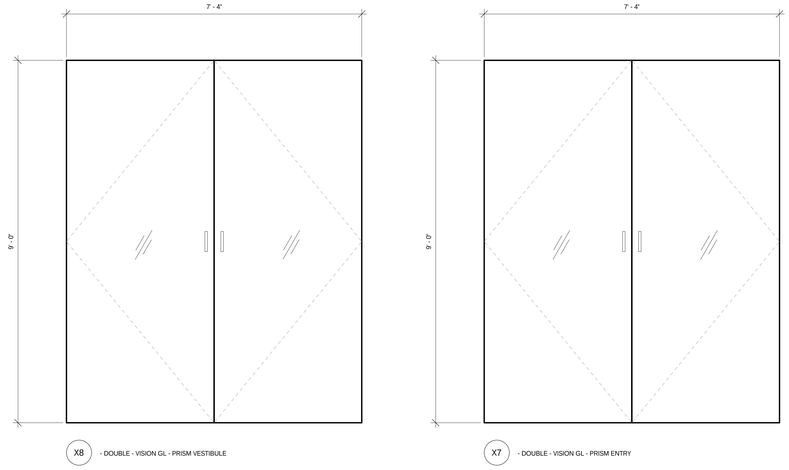
MISC. EXTERIOR DOORS

SCALE 3/4" = 1' 0 "



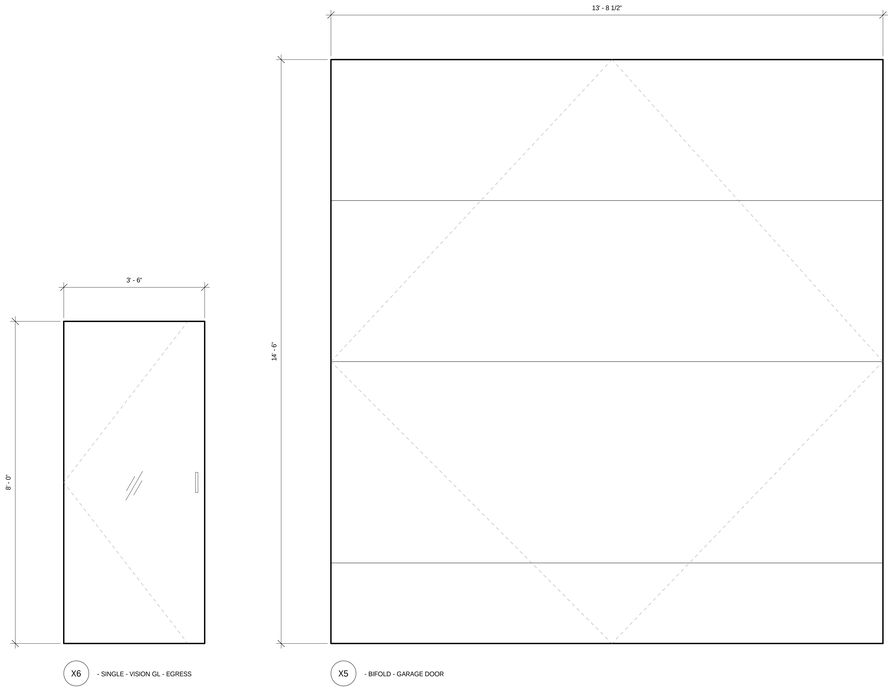
WT-05 DOORS

SCALE 3/4" = 1' 0 "



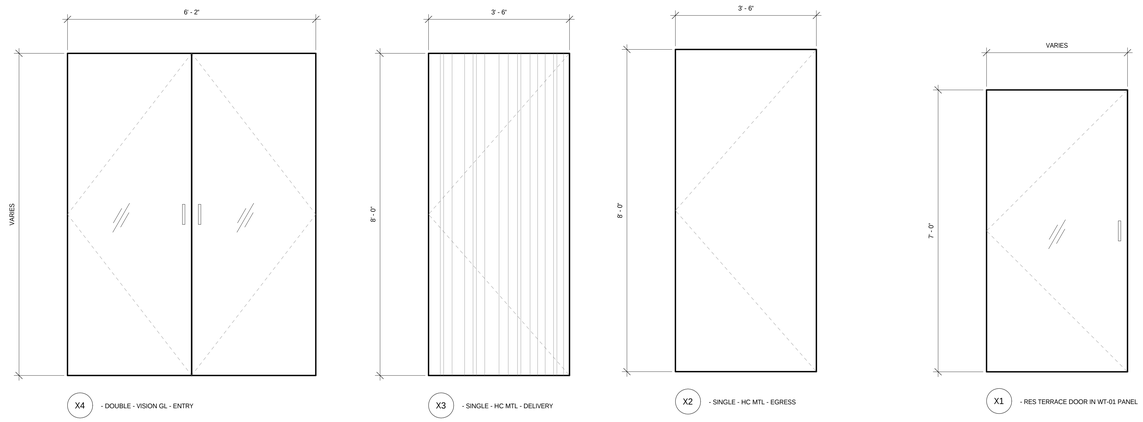
WT-04 DOORS

SCALE 3/4" = 1' 0 "



WT-01 TERRACE DOORS

SCALE 3/4" = 1' 0 "



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JDS DEVELOPMENT GROUP
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SITE DIAGRAM

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EXTERIOR DOOR TYPES

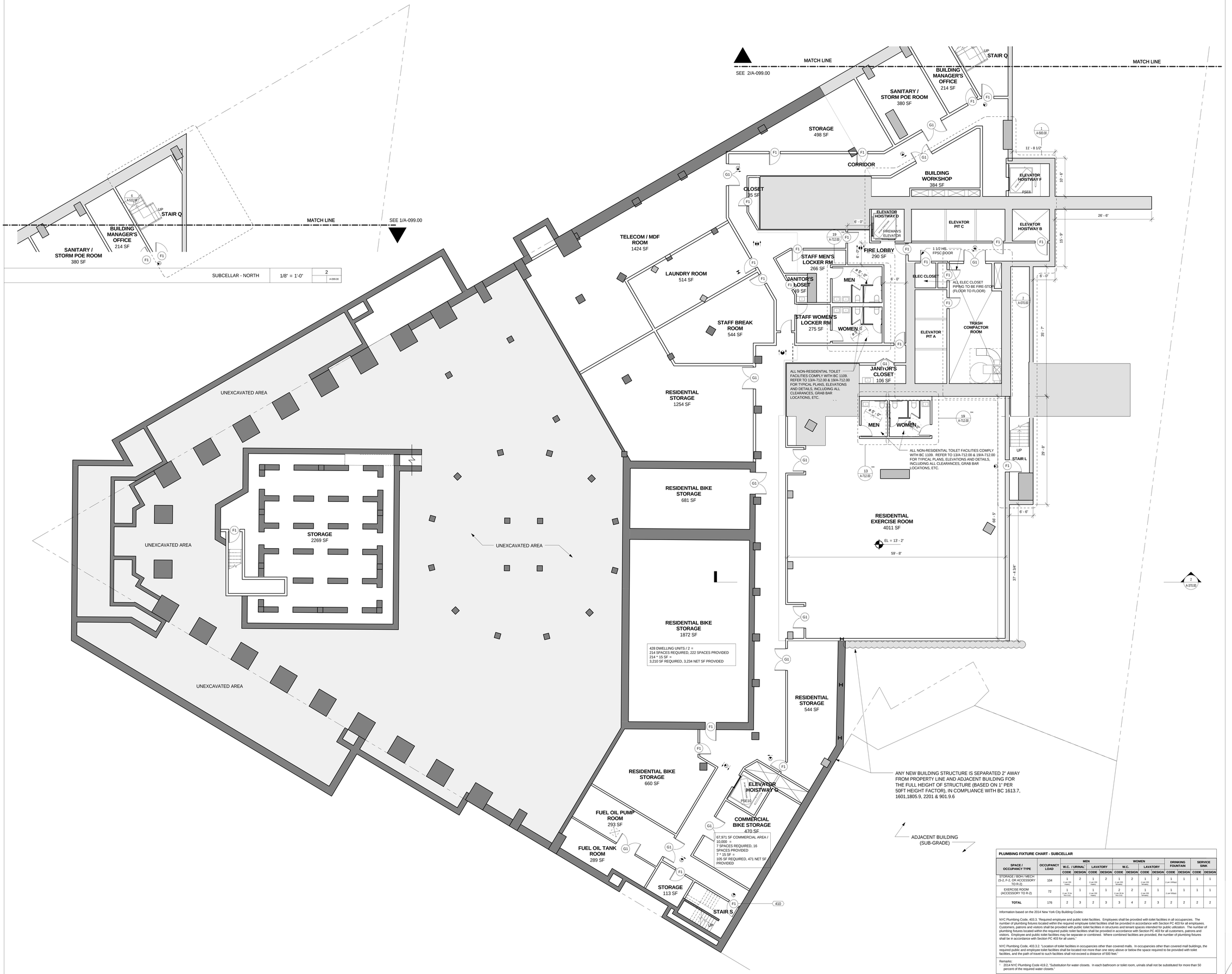
SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASQUARELLI STATE OF NEW YORK

DATE	11/28/16
PROJECT NO.	140429
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	A-072.00

DEPT OF BLDGS 320014338 Job Number

E 320018134A0 Scan Code



SUBCELLAR - NORTH | 1/8" = 1'-0" | 2 / A-099.00

SUBCELLAR - SOUTH | 1/8" = 1'-0" | 1 / A-099.00

PLUMBING FIXTURE CHART - SUBCELLAR

SPACE / OCCUPANCY TYPE	OCCUPANCY LOAD	MEN				WOMEN				DRINKING FOUNTAIN		SERVICE SINK	
		W.C. / URINAL		LAVATORY		W.C.		LAVATORY					
		CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN
STORAGE / BOH / MECH (S-2, F-2, OR ACCESSORY TO R-2)	104	1 (1 per 100 over 50)	2	1 (1 per 200 over)	2	1 (1 per 100 over 50)	2	1 (1 per 200 over)	2	1 (1 per 1000sf)	1	1	1
EXERCISE ROOM (ACCESSORY TO R-2)	72	1 (1 per 75 for the 1st 225)	1	1 (1 per 200 over)	1	2 (1 per 75 for the 1st 225)	2	1 (1 per 200 over)	1	1 (1 per 1000sf)	1	1	1
TOTAL	176	2	3	2	3	3	4	2	3	2	2	2	2

Information based on the 2014 New York City Building Codes:

NYC Plumbing Code, 403.3. "Required employee and public toilet facilities. Employees shall be provided with toilet facilities in all occupancies. The number of plumbing fixtures located within the required employee toilet facilities shall be provided in accordance with Section PC 403 for all employees. Customers, patrons and visitors shall be provided with public toilet facilities in structures and tenant spaces intended for public utilization. The number of plumbing fixtures located within the required public toilet facilities shall be provided in accordance with Section PC 403 for all customers, patrons and visitors. Employee and public toilet facilities may be separate or combined. Where combined facilities are provided, the number of plumbing fixtures shall be in accordance with Section PC 403 for all users."

NYC Plumbing Code, 403.3.2. "Location of toilet facilities in occupancies other than covered malls. In occupancies other than covered mall buildings, the required public and employee toilet facilities shall be located not more than one story above or below the space required to be provided with toilet facilities, and the path of travel to such facilities shall not exceed a distance of 500 feet."

Remarks:
1 2014 NYC Plumbing Code 419.2, "Substitution for water closets. In each bathroom or toilet room, urinals shall not be substituted for more than 50 percent of the required water closets."

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES
MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS
STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers
GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF
CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda
VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti
FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT
INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES
HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.759.6560

BOLD
LIGHTING
BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey
ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS
BMU ENGINEER
ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER
DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS
BUILDING ENERGY
VIDARIS
350 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING
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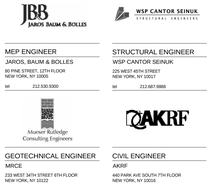
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.204.2925

Lebrero TRACE POOL DESIGN
POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS GROUP, INC.
CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
10/06/16	DOB FILING SET REV 2			
07/15/16	DOB FILING SET			
04/21/16	FD / SOE DOB FILING SET			
07/01/16	FACADE BID PACKAGE			
03/05/16	100% SD REASSESSMENT			
05/05/15	DOB FILING SET			
3/13/15	100% SCHEMATIC DESIGN			

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DRAWING TITLE

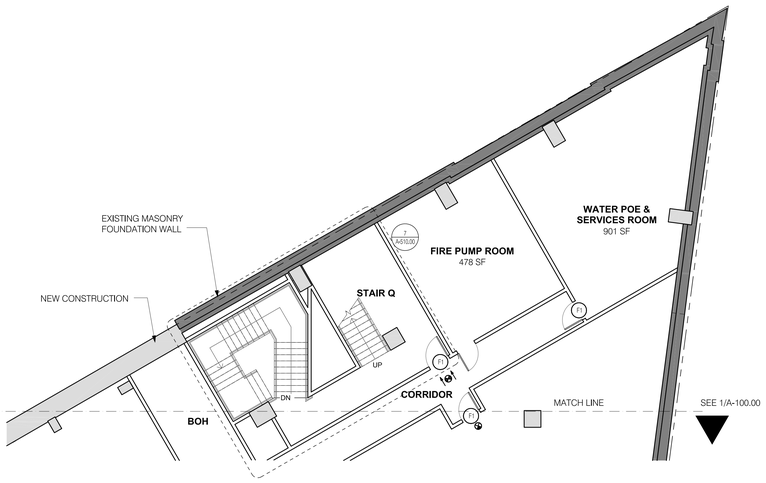
FLOOR PLAN - SUBCELLAR

SEAL & SIGNATURE

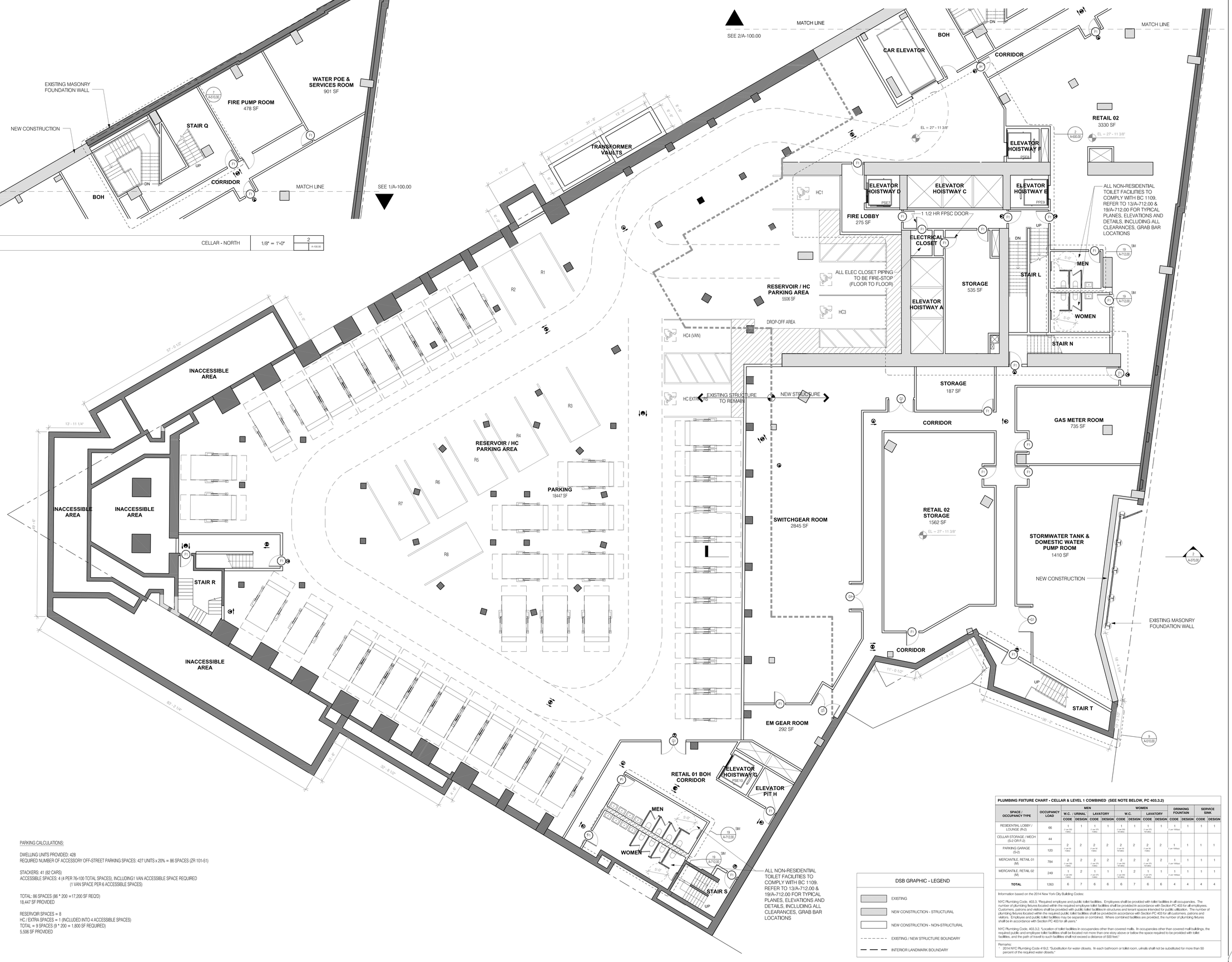
REGISTERED ARCHITECT JOSEPH A. PASQUINELLI STATE OF NEW YORK 026905

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-099.00

DEPT OF BLDGS 320914338 Job Number
E539714496 Scan Code



CELLAR - NORTH | 1/8" = 1'-0" | 2 / A-100.00



CELLAR - SOUTH | 1/8" = 1'-0" | 1 / A-100.00

PARKING CALCULATIONS:

DWELLING UNITS PROVIDED: 428
REQUIRED NUMBER OF ACCESSORY OFF-STREET PARKING SPACES: 427 UNITS x 20% = 86 SPACES (ZR 101-51)

STACKERS: 41 (82 CARS)
ACCESSIBLE SPACES: 4 (4 PER 76-100 TOTAL SPACES), INCLUDING1 VAN ACCESSIBLE SPACE REQUIRED
(1 VAN SPACE PER 6 ACCESSIBLE SPACES)

TOTAL: 86 SPACES (86 * 200 =17,200 SF REQD)
18,447 SF PROVIDED

RESERVOIR SPACES = 8
HC / EXTRA SPACES = 1 (INCLUDED INTO 4 ACCESSIBLE SPACES)
TOTAL = 9 SPACES (9 * 200 = 1,800 SF REQUIRED)
5,506 SF PROVIDED

PLUMBING FIXTURE CHART - CELLAR & LEVEL 1 COMBINED (SEE NOTE BELOW, PC 403.3.2)

SPACE / OCCUPANCY TYPE	OCCUPANCY LOAD	MEN				WOMEN				DRINKING FOUNTAIN		SERVICE SINK	
		W.C. / URINAL		LAVATORY		W.C.		LAVATORY					
		CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN
RESIDENTIAL LOBBY / LOUNGE (R-0)	66	1 (1 per 150 males)	1	1 (1 per 200 males)	1	1 (1 per 150 females)	1	1 (1 per 200 females)	1	1 per 1000sf	1	1	1
CELLAR STORAGE / MECH (S-2 OR F-2)	44												
PARKING GARAGE (S-2)	120	2 (1 per 50 males)	2	2 (1 per 50 males)	2	2 (1 per 50 females)	2	2 (1 per 50 females)	2	1 per 1000sf	1	1	1
MERCANTILE, RETAIL 01 (M)	784	2 (1 per 250 males)	2	2 (1 per 375 males)	2	2 (1 per 250 females)	2	2 (1 per 375 females)	2	1 per 1000sf	1	1	1
MERCANTILE, RETAIL 02 (M)	249	1 (1 per 250 males)	2	1 (1 per 375 males)	1	1 (1 per 250 females)	2	1 (1 per 375 females)	1	1 per 1000sf	1	1	1
TOTAL	1263	6	7	6	6	6	7	6	6	4	4	4	4

Information based on the 2014 New York City Building Codes:

NYC Plumbing Code, 403.3, "Required employee and public toilet facilities. Employees shall be provided with toilet facilities in all occupancies. The number of plumbing fixtures located within the required employee toilet facilities shall be provided in accordance with Section PC 403 for all employees. Customers, patrons and visitors shall be provided with public toilet facilities in structures and tenant spaces intended for public utilization. The number of plumbing fixtures located within the required public toilet facilities shall be provided in accordance with Section PC 403 for all customers, patrons and visitors. Employee and public toilet facilities may be separate or combined. Where combined facilities are provided, the number of plumbing fixtures shall be in accordance with Section PC 403 for all users."

NYC Plumbing Code, 403.3.2, "Location of toilet facilities in occupancies other than covered malls. In occupancies other than covered mall buildings, the required public and employee toilet facilities shall be located not more than one story above or below the space required to be provided with toilet facilities, and the path of travel to such facilities shall not exceed a distance of 500 feet."

Remarks:
1. 2014 NYC Plumbing Code 419.2: "Substitution for water closets. In each bathroom or toilet room, urinals shall not be substituted for more than 50 percent of the required water closets."

DSB GRAPHIC - LEGEND

- EXISTING
- NEW CONSTRUCTION - STRUCTURAL
- NEW CONSTRUCTION - NON-STRUCTURAL
- EXISTING / NEW STRUCTURE BOUNDARY
- INTERIOR LANDMARK BOUNDARY

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9000

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 45TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRGE
220 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9638

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE, SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, # 10
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY, SUITE 509
NEW YORK, NY 10012
tel 646.666.0646

JHPA

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

BOLD

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6000

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 308
NEW YORK, NY 10018
tel 212.315.8400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

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DEMO STRUCT. ENGINEER
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NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5399

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2035

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4780

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 35TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

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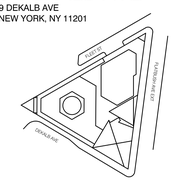
NEW YORK, NY 11201



SITE DIAGRAM

10/06/16	DOB FILING SET REV 2
07/15/16	DOB FILING SET
04/21/16	FD / SOE DOB FILING SET
07/01/16	FACADE BID PACKAGE
02/05/16	100% SD REASSESSMENT
05/05/15	DOB FILING SET
3/13/15	100% SCHEMATIC DESIGN
DATE	ISSUE

NO. DATE REVISION

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DRAWING TITLE

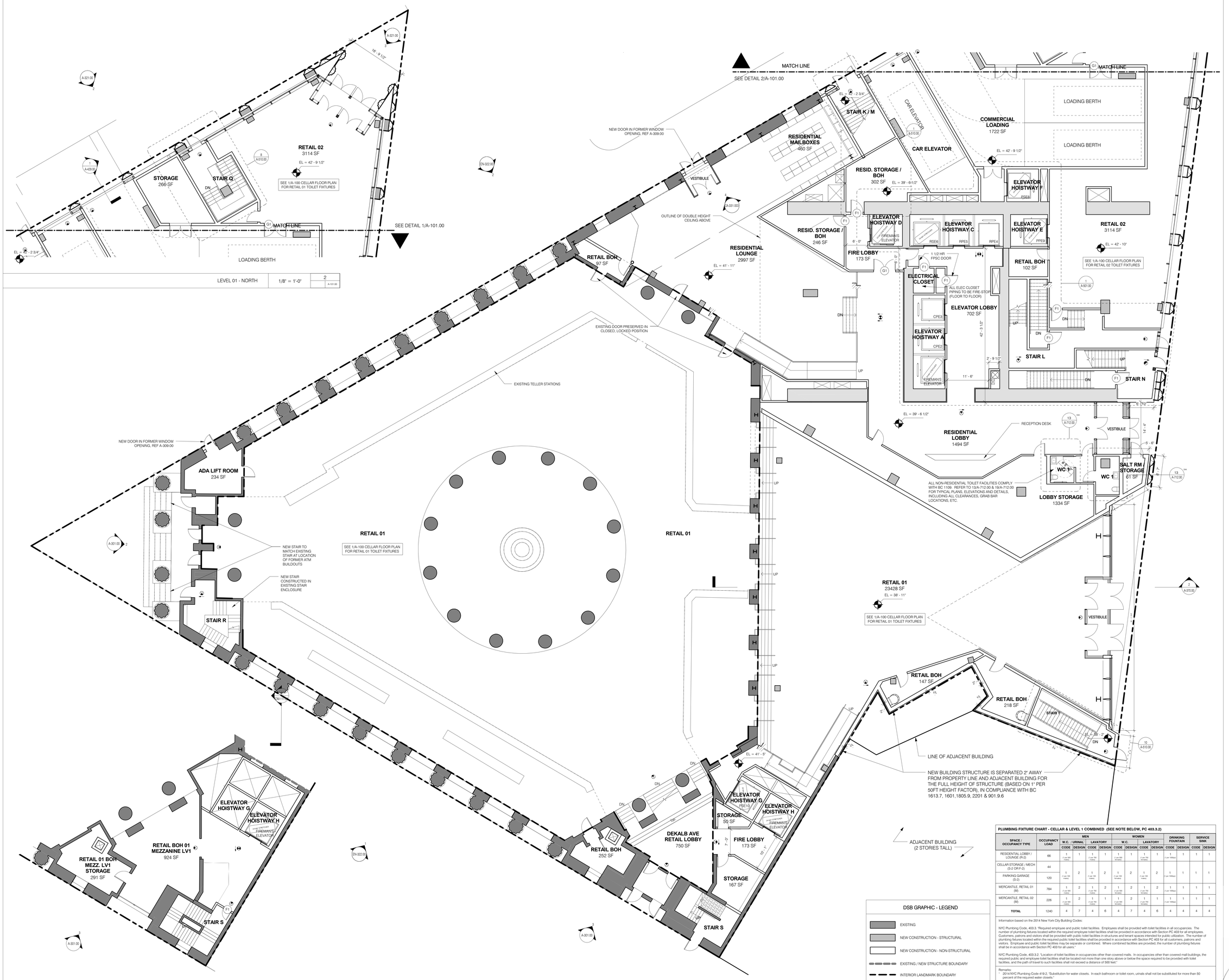
FLOOR PLAN - CELLAR

SEAL & SIGNATURE

REGISTERED ARCHITECT JAMES PASSMORE 029555 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
JOB NO.	320914338
DRAWING NUMBER	A-100.00

DEPT OF BLDGS 320014338 Job Number
E-3305/09/2015 Scan Code



PLUMBING FIXTURE CHART - CELLAR & LEVEL 1 COMBINED (SEE NOTE BELOW, PC 403.3.2)

SPACE / OCCUPANCY TYPE	OCCUPANCY LOAD	MEN				WOMEN				DRINKING FOUNTAIN		SERVICE SINK	
		W.C. / URINAL		LAVATORY		W.C.		LAVATORY					
		CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN
RESIDENTIAL LOBBY / LOUNGE (R-2)	66	1 (1 per 150 males)	1	1 (1 per 150 males)	1	1 (1 per 150 females)	1	1 (1 per 150 females)	1	1 (1 per 1000sf)	1	1	1
CELLAR STORAGE / MECH (S-2 OR F-2)	44												
PARKING GARAGE (S-2)	120	1 (1 per 100 males)	2	1 (1 per 100 males)	2	1 (1 per 100 females)	2	1 (1 per 100 females)	2	1 (1 per 1000sf)	1	1	1
MERCANTILE, RETAIL 01 (M)	784	1 (1 per 500 males)	2	1 (1 per 750 males)	2	1 (1 per 500 females)	2	1 (1 per 750 females)	2	1 (1 per 1000sf)	1	1	1
MERCANTILE, RETAIL 02 (M)	226	1 (1 per 500 males)	2	1 (1 per 750 males)	1	1 (1 per 500 females)	2	1 (1 per 750 females)	1	1 (1 per 1000sf)	1	1	1
TOTAL	1240	4	7	4	6	4	7	4	6	4	4	4	4

Information based on the 2014 New York City Building Codes:

NYC Plumbing Code, 403.3. "Required employee and public toilet facilities. Employees shall be provided with toilet facilities in all occupancies. The number of plumbing fixtures located within the required employee toilet facilities shall be provided in accordance with Section PC 403 for all employees. Customers, patrons and visitors shall be provided with public toilet facilities in structures and tenant spaces intended for public utilization. The number of plumbing fixtures located within the required public toilet facilities shall be provided in accordance with Section PC 403 for all customers, patrons and visitors. Employee and public toilet facilities may be separate or combined. Where combined facilities are provided, the number of plumbing fixtures shall be in accordance with Section PC 403 for all users."

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Remarks:
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DSB GRAPHIC - LEGEND

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- NEW CONSTRUCTION - NON-STRUCTURAL
- EXISTING / NEW STRUCTURE BOUNDARY
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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
M 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
M 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
M 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 48TH STREET
NEW YORK, NY 10017
M 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10018
M 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
M 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
M 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
M 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
M 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
M 212.759-6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
M 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
M 212.315.6400

ENTEX ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEX ENGINEERING
146 JAMES STREET
HACKENSACK, NJ 07601
M 201.800.2902

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
M 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
M 212.689.5389

BURO HAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
M 212.334.2025

Lathrop TRACE POOL DESIGN

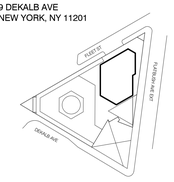
POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
M 914.495.4390

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLAND STREET, 16TH FLOOR
NEW YORK, NY 10007
M 212.223.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

10/06/16	DOB FILING SET REV 2
07/15/16	DOB FILING SET
04/21/16	FD / SOE DOB FILING SET
07/01/16	FACADE BID PACKAGE
02/05/16	100% SD REASSESMENT
05/05/15	DOB FILING SET
3/13/15	100% SCHEMATIC DESIGN

DATE ISSUE NO. DATE REVISION

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DRAWING TITLE

FLOOR PLAN - LEVEL 01

SEAL & SIGNATURE

REGISTERED ARCHITECT STATE OF NEW YORK

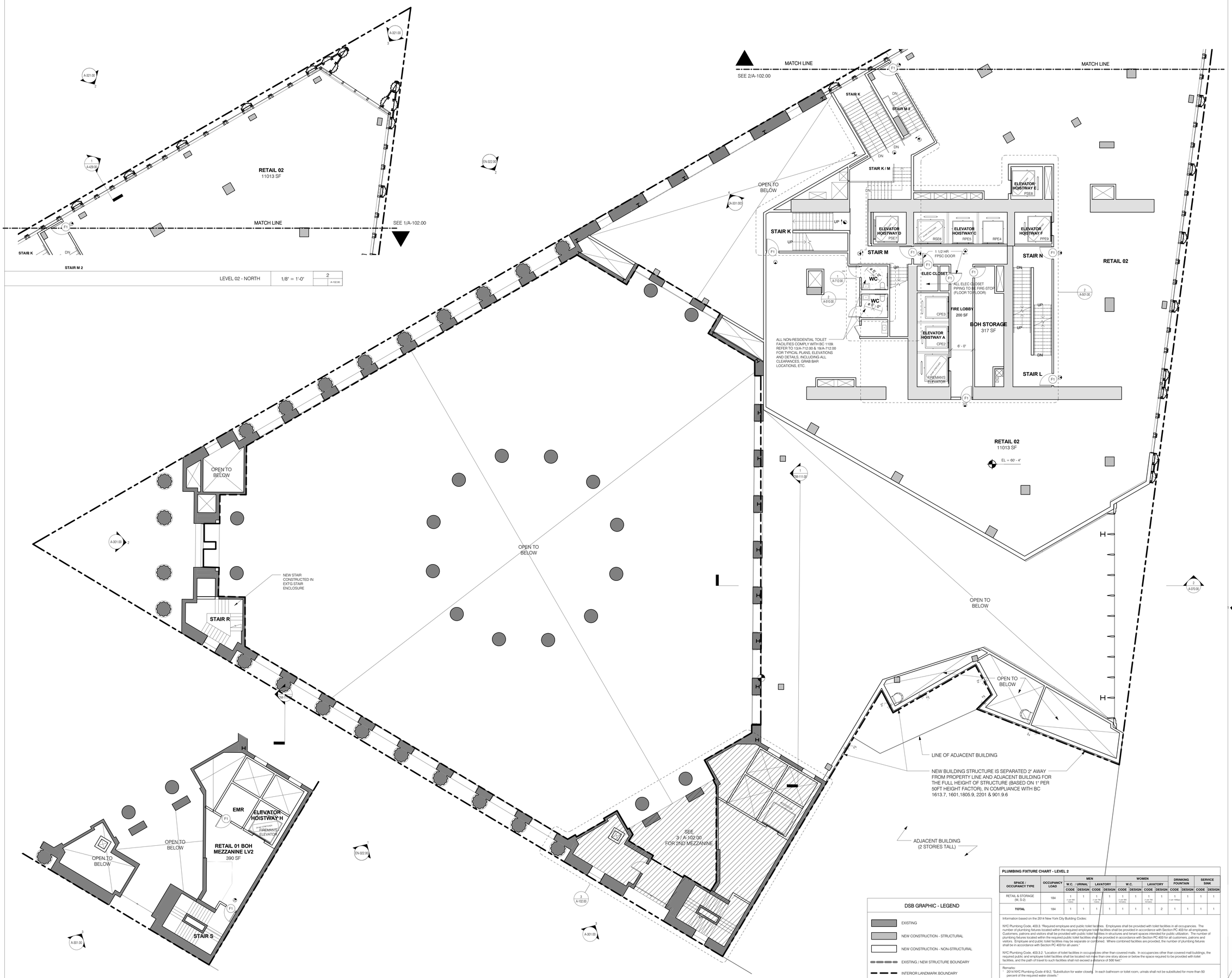
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

A-101.00

DEPT OF BLDGS 320914338 Job Number

E1003045886 Scan Code



LEVEL 02 - NORTH | 1/8" = 1'-0" | 2 / A-102.00

PARTIAL PLAN - LEVEL 01, MEZZANINE 02 | 1/8" = 1'-0" | 3 / A-102.00

LEVEL 02 - SOUTH | 1/8" = 1'-0" | 1 / A-102.00

PLUMBING FIXTURE CHART - LEVEL 2

SPACE / OCCUPANCY TYPE	OCCUPANCY LOAD	MEN				WOMEN				DRINKING FOUNTAIN		SERVICE SINK	
		W.C. / URINAL		LAVATORY		W.C.		LAVATORY					
		CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN
RETAIL & STORAGE (M, S-2)	184	1 (1 per 500 males)	1	1 (1 per 750 males)	1	1 (1 per 500 females)	1	1 (1 per 750 females)	1	1 (per 1000pp)	1	1	1
TOTAL	184	1	1	1	1	1	1	1	2	1	1	1	1

Information based on the 2014 New York City Building Codes:

NYC Plumbing Code, 403.3: "Required employee and public toilet facilities. Employees shall be provided with toilet facilities in all occupancies. The number of plumbing fixtures located within the required employee toilet facilities shall be provided in accordance with Section PC 403 for all employees. Customers, patrons and visitors shall be provided with public toilet facilities in structures and tenant spaces intended for public utilization. The number of plumbing fixtures located within the required public toilet facilities shall be provided in accordance with Section PC 403 for all customers, patrons and visitors. Employee and public toilet facilities may be separate or combined. Where combined facilities are provided, the number of plumbing fixtures shall be in accordance with Section PC 403 for all users."

NYC Plumbing Code, 403.3.2: "Location of toilet facilities in occupancies other than covered malls. In occupancies other than covered mall buildings, the required public and employee toilet facilities shall be located not more than one story above or below the space required to be provided with toilet facilities, and the path of travel to such facilities shall not exceed a distance of 500 feet."

Remarks:
1. 2014 NYC Plumbing Code 419.2: "Substitution for water closets. In each bathroom or toilet room, urinals shall not be substituted for more than 50 percent of the required water closets."

DSB GRAPHIC - LEGEND

- EXISTING
- NEW CONSTRUCTION - STRUCTURAL
- NEW CONSTRUCTION - NON-STRUCTURAL
- EXISTING / NEW STRUCTURE BOUNDARY
- INTERIOR LANDMARK BOUNDARY

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS, BAUM & BOLLES
MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK
STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.697.9898

Mueser Rutledge Consulting Engineers
GEOTECHNICAL ENGINEER
MRCE
253 WEST 35TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF
CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti
FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT
INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA
HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-6540

BOLD
LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey
ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315-6400

ENTEK ENGINEERING LLC
BMU ENGINEER
ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

SIMPSON GUMPERTZ & HEGER
DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS
BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.989.5389

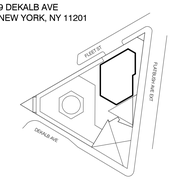
BURO HAPPOLD ENGINEERING
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.354.2525

Latham TRACE POOL DESIGN
POOL
TRACE POOL DESIGN
1 WORCHESTER AVENUE
LATHAM, NY 10924
tel 914.495.4390

METROPOLIS
CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.223.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
10/06/16	DOB FILING SET REV 2
07/15/16	DOB FILING SET
04/21/16	FD / SOE DOB FILING SET
07/01/16	FACADE BID PACKAGE
02/05/16	100% SD REASSESSMENT
05/05/15	DOB FILING SET
3/13/15	100% SCHEMATIC DESIGN

NO.	DATE	REVISION

THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH MAY NOT BE USED FOR OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR COMPLETION OF THIS PROJECT BY OTHERS.

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DRAWING TITLE

FLOOR PLAN - LEVEL 02

SEAL & SIGNATURE

REGISTERED ARCHITECT GREGORY PASQUARELLI STATE OF NEW YORK

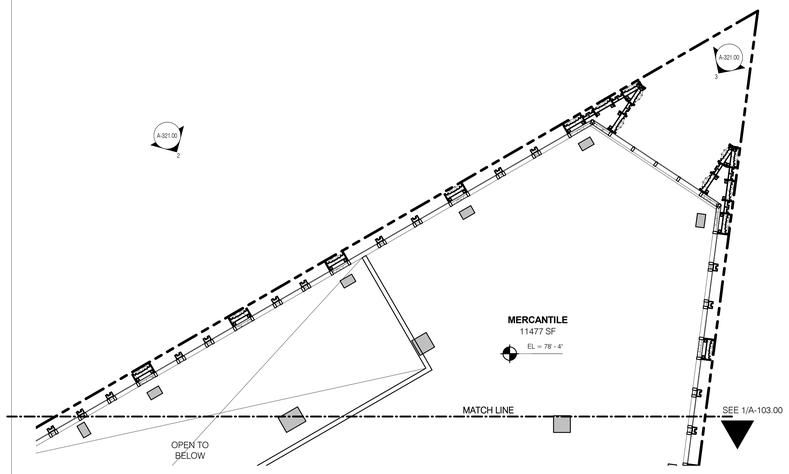
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

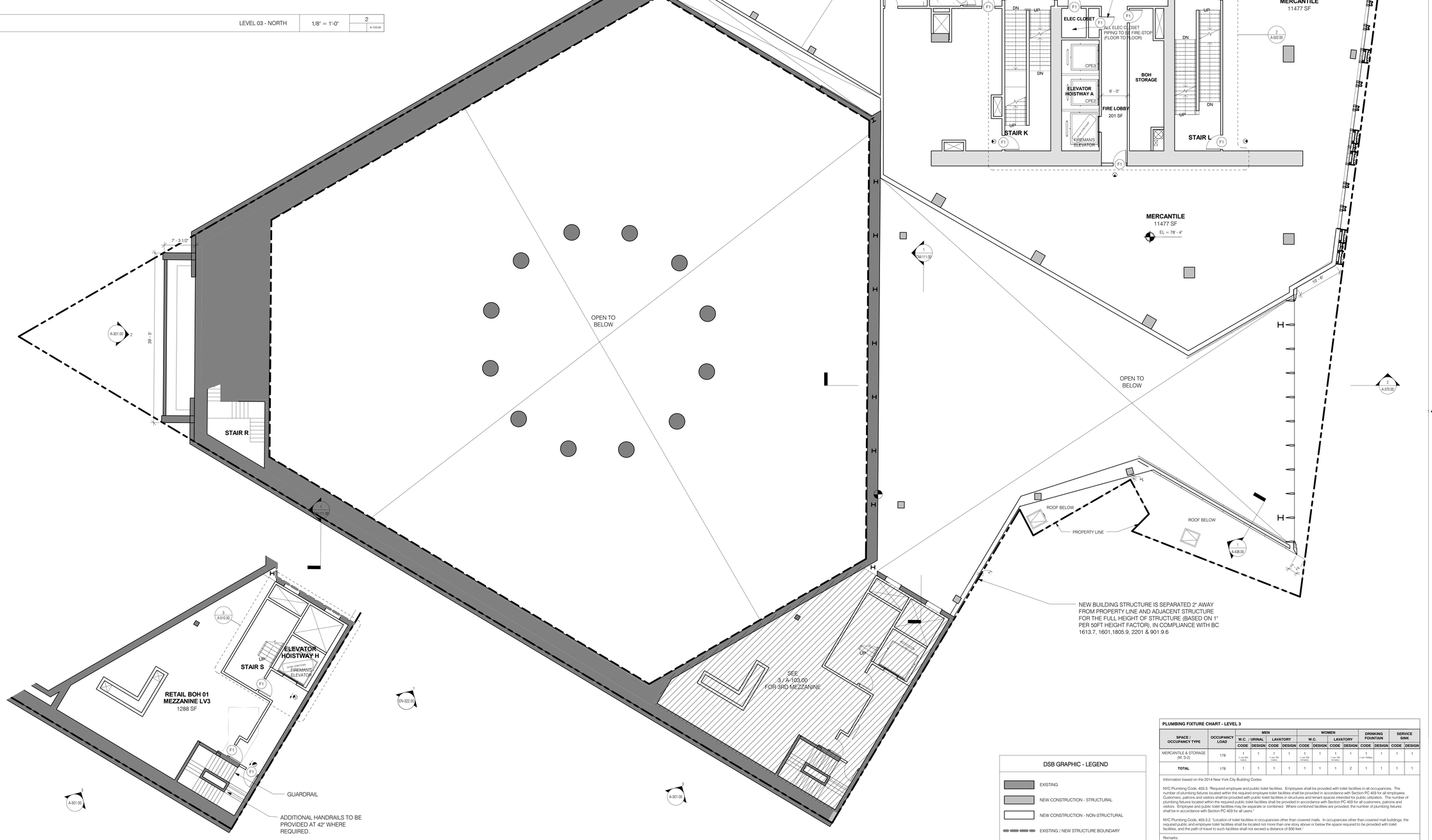
A-102.00

DEPT OF BLDGS 320014338 Job Number

B 3209M300223 Scan Code



LEVEL 03 - NORTH | 1/8" = 1'-0" | 2 / A-103.00



PARTIAL PLAN - LEVEL 01, MEZZANINE 03 | 1/8" = 1'-0" | 3 / A-103.00

LEVEL 03 - SOUTH | 1/8" = 1'-0" | 1 / A-103.00

DSB GRAPHIC - LEGEND

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- NEW CONSTRUCTION - STRUCTURAL
- NEW CONSTRUCTION - NON-STRUCTURAL
- EXISTING / NEW STRUCTURE BOUNDARY
- INTERIOR LANDMARK BOUNDARY

PLUMBING FIXTURE CHART - LEVEL 3

SPACE / OCCUPANCY TYPE	OCCUPANCY LOAD	MEN				WOMEN				DRINKING FOUNTAIN		SERVICE SINK	
		W.C.		URINAL		LAVATORY		W.C.		LAVATORY					
		CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN
MERCANTILE & STORAGE (M, S-2)	178	1 (1 per 300 males)	1	1 (1 per 150 males)	1	1	1	1 (1 per 300 females)	1	1 (1 per 150 females)	1	1 (1 per 1000gal)	1	1	1
TOTAL	178	1	1	1	1	1	1	1	1	1	2	1	1	1	1

Information based on the 2014 New York City Building Codes:

NYC Plumbing Code, 403.3. "Required employee and public toilet facilities. Employees shall be provided with toilet facilities in all occupancies. The number of plumbing fixtures located within the required employee toilet facilities shall be provided in accordance with Section PC 403 for all employees. Customers, patrons and visitors shall be provided with public toilet facilities in structures and tenant spaces intended for public utilization. The number of plumbing fixtures located within the required public toilet facilities shall be provided in accordance with Section PC 403 for all customers, patrons and visitors. Employee and public toilet facilities may be separate or combined. Where combined facilities are provided, the number of plumbing fixtures shall be in accordance with Section PC 403 for all users."

NYC Plumbing Code, 403.3.2. "Location of toilet facilities in occupancies other than covered malls. In occupancies other than covered mall buildings, the required public and employee toilet facilities shall be located not more than one story above or below the space required to be provided with toilet facilities, and the path of travel to such facilities shall not exceed a distance of 500 feet."

Remarks:

1. 2014 NYC Plumbing Code 419.2. "Substitution for water closets. In each bathroom or toilet room, urinals shall not be substituted for more than 50 percent of the required water closets."

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS, BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 48TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
154 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-0540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
107 JAMES STREET
HACKENSACK, NJ 07601
tel 201.820.0902

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SOUTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7500

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2225

TRACE POOL DESIGN

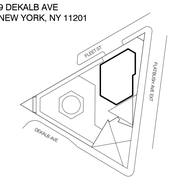
POOL
TRACE POOL DESIGN
1 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS GROUP

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.223.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO	DATE	REVISION
10/06/16	DOB FILING SET REV 2			
07/15/16	DOB FILING SET			
04/21/16	FD / SOE DOB FILING SET			
07/01/16	FACADE BID PACKAGE			
02/05/16	100% SD REASSESSMENT			
05/05/16	DOB FILING SET			
3/13/15	100% SCHEMATIC DESIGN			

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DRAWING TITLE

FLOOR PLAN - LEVEL 03

SEAL & SIGNATURE

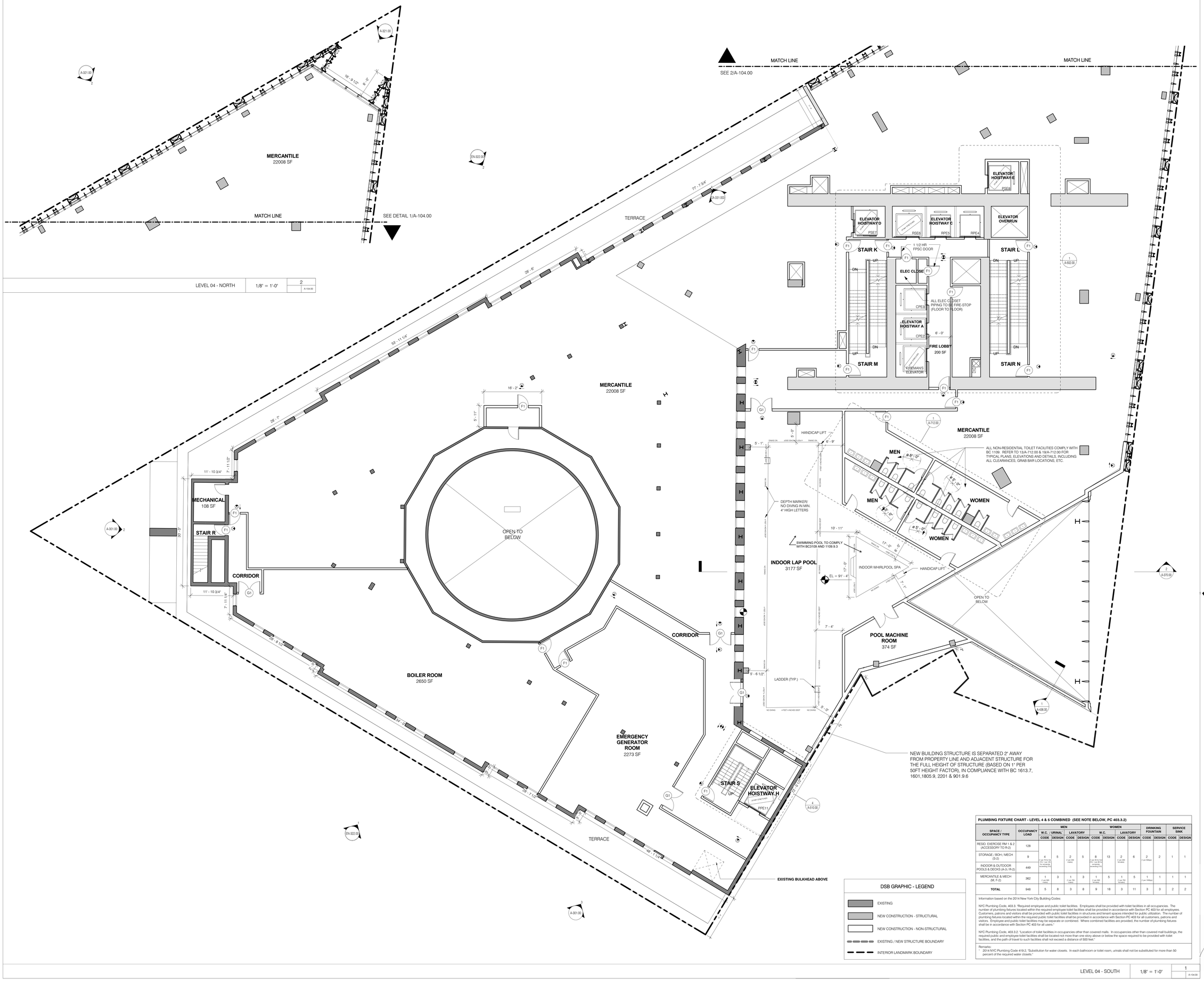
REGISTERED ARCHITECT JOSEPH A. PASQUARELLI STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

DRAWING NUMBER

A-103.00

DEPT OF BLDGS 320014338 Job Number
E 320014338 01 Scan Code



LEVEL 04 - NORTH	1/8" = 1'-0"	2 / A-104.00

LEVEL 04 - SOUTH	1/8" = 1'-0"	1 / A-104.00

PLUMBING FIXTURE CHART - LEVEL 4 & 5 COMBINED (SEE NOTE BELOW, PC 403.3.2)

SPACE / OCCUPANCY TYPE	OCCUPANCY LOAD	MEN				WOMEN				DRINKING FOUNTAIN		SERVICE SINK	
		W.C. / URINAL		LAVATORY		W.C.		LAVATORY					
		CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN
RESID. EXERCISE RM 1 & 2 (ACCESSORY TO R-2)	128												
STORAGE / BOH / MECH (S-2)	9	4 (1 per 75 for the first 150, 1 per 150 thereafter) exceeding 9 to	5	2 (1 per 200 thereafter)	5	8 (1 per 50 for the first 400, 1 per 150 thereafter) exceeding 9 to	13	2 (1 per 200 thereafter)	6	2 (1 per 500pp)	2	1	1
INDOOR & OUTDOOR POOLS & DECKS (A-3 / R-2)	449												
MERCANTILE & MECH (M, F-2)	362	1 (1 per 500 thereafter)	3	1 (1 per 750 thereafter)	3	1 (1 per 500 thereafter)	5	1 (1 per 750 thereafter)	5	1 (1 per 1000pp)	1	1	1
TOTAL	948	5	8	3	8	9	18	3	11	3	3	2	2

Information based on the 2014 New York City Building Codes:

NYC Plumbing Code, 403.3: "Required employee and public toilet facilities. Employees shall be provided with toilet facilities in all occupancies. The number of plumbing fixtures located within the required employee toilet facilities shall be provided in accordance with Section PC 403 for all employees. Customers, patrons and visitors shall be provided with public toilet facilities in structures and tenant spaces intended for public utilization. The number of plumbing fixtures located within the required public toilet facilities shall be provided in accordance with Section PC 403 for all customers, patrons and visitors. Employee and public toilet facilities may be separate or combined. Where combined facilities are provided, the number of plumbing fixtures shall be in accordance with Section PC 403 for all users."

NYC Plumbing Code, 403.3.2: "Location of toilet facilities in occupancies other than covered malls. In occupancies other than covered mall buildings, the required public and employee toilet facilities shall be located not more than one story above or below the space required to be provided with toilet facilities, and the path of travel to such facilities shall not exceed a distance of 500 feet."

Remarks:

1. 2014 NYC Plumbing Code 419.2: "Substitution for water closets. In each bathroom or toilet room, urinals shall not be substituted for more than 50 percent of the required water closets."

DSB GRAPHIC - LEGEND

- EXISTING
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- NEW CONSTRUCTION - NON-STRUCTURAL
- EXISTING / NEW STRUCTURE BOUNDARY
- INTERIOR LANDMARK BOUNDARY

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES
MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS
STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers
GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF
CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

vda
VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti
FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT
INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS
HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-6540

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237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
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166 AMES STREET
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NEW YORK, NY 10018
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tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.0325

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1 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.466.4290

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METROPOLIS GROUP, INC.
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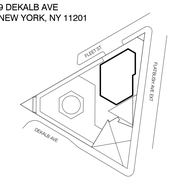

SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
10/06/16	DOB FILING SET REV 2			
07/15/16	DOB FILING SET			
04/21/16	FD / SOE DOB FILING SET			
07/01/16	FACADE BID PACKAGE			
02/05/16	100% SD REASSESSMENT			

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DRAWING TITLE

FLOOR PLAN - LEVEL 04

SEAL & SIGNATURE

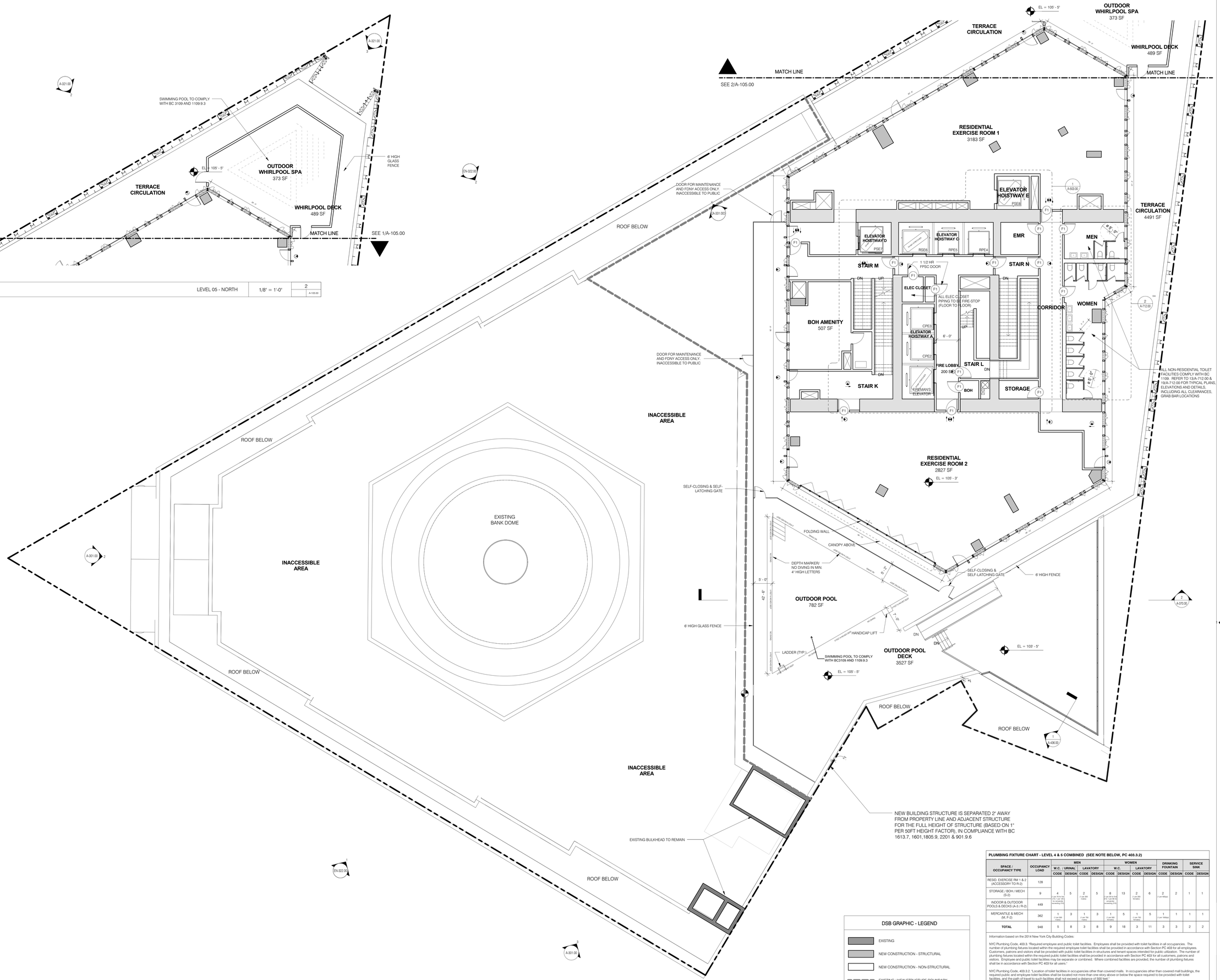
REGISTERED ARCHITECT JOSEPH A. PASQUINELLI DOMINIC STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-104.00

DEPT OF BLDGS 320914338 Job Number

B 3000001000 Sheet Code

LEVEL 05 - NORTH | 1/8" = 1'-0" | 2 / A-105.00



PLUMBING FIXTURE CHART - LEVEL 4 & 5 COMBINED (SEE NOTE BELOW, PC 403.3.2)

SPACE / OCCUPANCY TYPE	OCCUPANCY LOAD	MEN				WOMEN				DRINKING FOUNTAIN		SERVICE SINK	
		W.C. / URINAL		LAVATORY		W.C.		LAVATORY					
		CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN
RESID. EXERCISE RM 1 & 2 (ACCESSORY TO R-2)	128												
STORAGE / BOH / MECH (S-2)	9	4 (1 per 75 for the first 300, and 1 for remaining 200)	5	2 (1 per 200 males)	5	8 (1 per 25 for first 50, and 1 for remaining 200)	13	2 (1 per 200 females)	6	2 (1 per 1000sf)	2	1	1
INDOOR & OUTDOOR POOLS & DECKS (A-3 / R-2)	449												
MERCANTILE & MECH (M, F-2)	362	1 (1 per 500 males)	3	1 (1 per 750 males)	3	1 (1 per 500 females)	5	1 (1 per 750 females)	5	1 (1 per 1000sf)	1	1	1
TOTAL	948	5	8	3	8	9	18	3	11	3	3	2	2

Information based on the 2014 New York City Building Codes:

NYC Plumbing Code, 403.3: "Required employee and public toilet facilities. Employees shall be provided with toilet facilities in all occupancies. The number of plumbing fixtures located within the required employee toilet facilities shall be provided in accordance with Section PC 403 for all employees. Customers, patrons and visitors shall be provided with public toilet facilities in structures and tenant spaces intended for public utilization. The number of plumbing fixtures located within the required public toilet facilities shall be provided in accordance with Section PC 403 for all customers, patrons and visitors. Employee and public toilet facilities may be separate or combined. Where combined facilities are provided, the number of plumbing fixtures shall be in accordance with Section PC 403 for all users."

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Remarks:
1. 2014 NYC Plumbing Code 419.2, "Substitution for water closets. In each bathroom or toilet room, urinals shall not be substituted for more than 50 percent of the required water closets."

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- NEW CONSTRUCTION - NON-STRUCTURAL
- EXISTING / NEW STRUCTURE BOUNDARY
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LEVEL 05 - SOUTH | 1/8" = 1'-0" | 1 / A-105.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS, BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
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AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-6540

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NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lorenzo TRACE POOL DESIGN

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TRACE POOL DESIGN
20 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.455.4290

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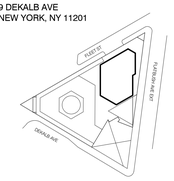
CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLAND STREET, 16TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	REVISION
10/06/16	DOB FILING SET REV 2		
07/15/16	DOB FILING SET		
04/21/16	FO / SOE DOB FILING SET		
07/01/16	FACADE BID PACKAGE		
02/05/16	100% SD REASSESMENT		
05/05/15	DOB FILING SET		
3/13/15	100% SCHEMATIC DESIGN		

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DRAWING TITLE

FLOOR PLAN - LEVEL 05

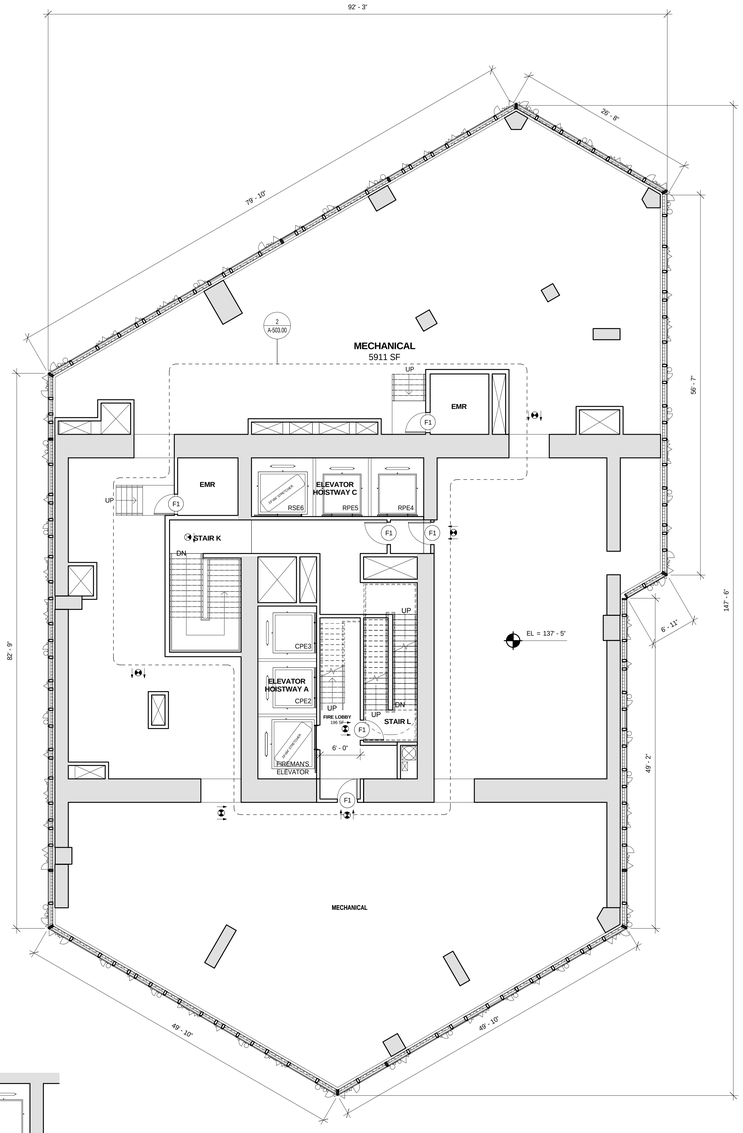
SEAL & SIGNATURE

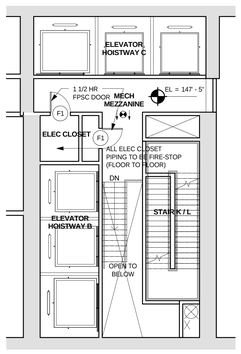
REGISTERED ARCHITECT GREGG A. PASQUARELLI 026780 STATE OF NEW YORK

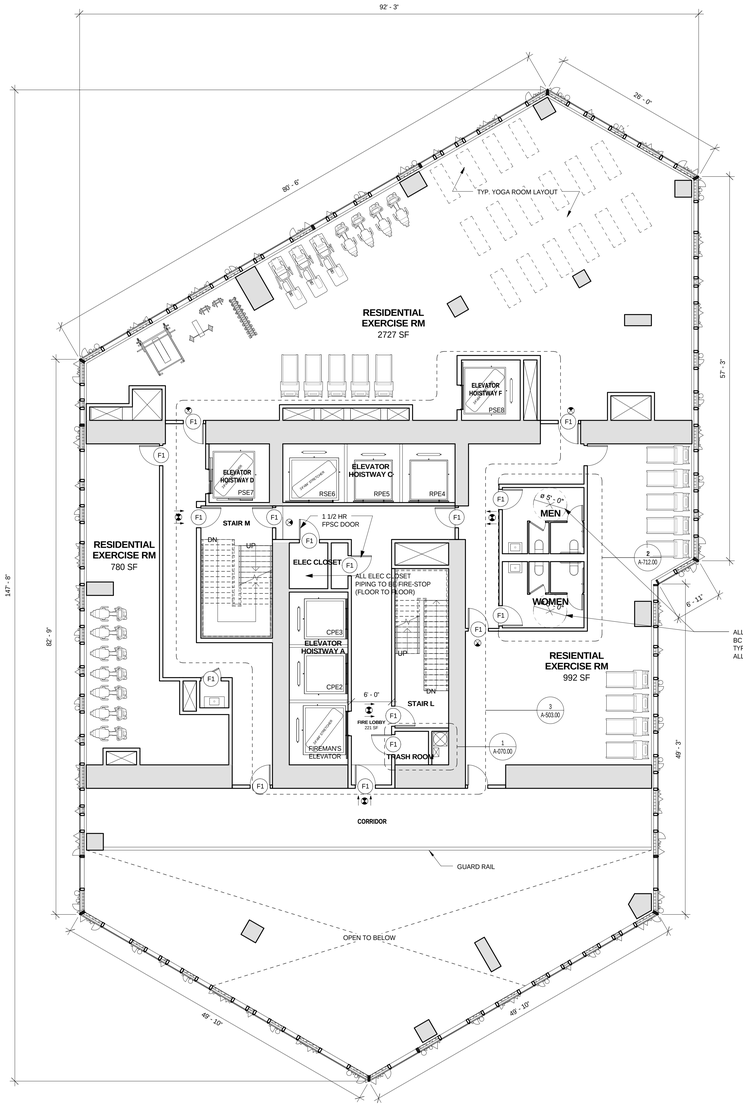
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-105.00

DEPT OF BLDGS 320914338 Job Number

E302498830US Scan Code







PLUMBING FIXTURE CHART - LEVEL 6

SPACE / OCCUPANCY TYPE	OCCUPANCY LOAD	MEN				WOMEN				DRINKING FOUNTAIN		SERVICE SINK	
		W.C. / URINAL		LAVATORY		W.C.		LAVATORY					
		CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN	CODE	DESIGN
RESID.EXERCISE RMS (ACCESSORY TO R-2)	112	1 (1 per 75 for first 150)	2	2 (1 per 150 males)	2	2 (1 per 75 for first 150)	2	2 (1 per 150 females)	2	1 (1 per fifthfl)	1	1	1
TOTAL	112	1	2	2	2	2	2	2	2	1	1	1	1

Information based on the 2014 New York City Building Codes:

NYC Plumbing Code, 403.3. "Required employee and public toilet facilities. Employees shall be provided with toilet facilities in all occupancies. The number of plumbing fixtures located within the required employee toilet facilities shall be provided in accordance with Section PC 403 for all employees. Customers, patrons and visitors shall be provided with public toilet facilities in structures and tenant spaces intended for public utilization. The number of plumbing fixtures located within the required public toilet facilities shall be provided in accordance with Section PC 403 for all customers, patrons and visitors. Employee and public toilet facilities may be separate or combined. Where combined facilities are provided, the number of plumbing fixtures shall be in accordance with Section PC 403 for all users."

NYC Plumbing Code, 403.3.2. "Location of toilet facilities in occupancies other than covered malls. In occupancies other than covered mall buildings, the required public and employee toilet facilities shall be located not more than one story above or below the space required to be provided with toilet facilities, and the path of travel to such facilities shall not exceed a distance of 500 feet."

Remarks:
1 2014 NYC Plumbing Code 419.2, "Substitution for water closets. In each bathroom or toilet room, urinals shall not be substituted for more than 50 percent of the required water closets."

LEVEL 07M - PLAN - MECH MEZZANINE | 1/8" = 1'-0" | 3 / A-106.00

LEVEL 07 - PLAN - MECHANICAL | 1/8" = 1'-0" | 2 / A-106.00

LEVEL 06 - PLAN - AMENITY | 1/8" = 1'-0" | 1 / A-106.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 60TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-6540

BOLD

LIGHTING
BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
144 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

LUXURY TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
310 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.223.6344

9 DEKALB AVE

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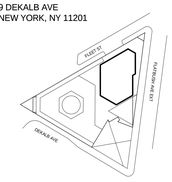
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
04/21/16	FD / SOE DOB FILING SET			
07/01/16	FACADE BID PACKAGE			
02/05/16	100% SD REASSESSMENT			
05/05/15	DOB FILING SET			
3/13/15	100% SCHEMATIC DESIGN			

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DRAWING TITLE

FLOOR PLAN - LEVEL 06 / 07

SEAL & SIGNATURE

REGISTERED ARCHITECT JESSICA A. PASQUINELLI 032526 STATE OF NEW YORK

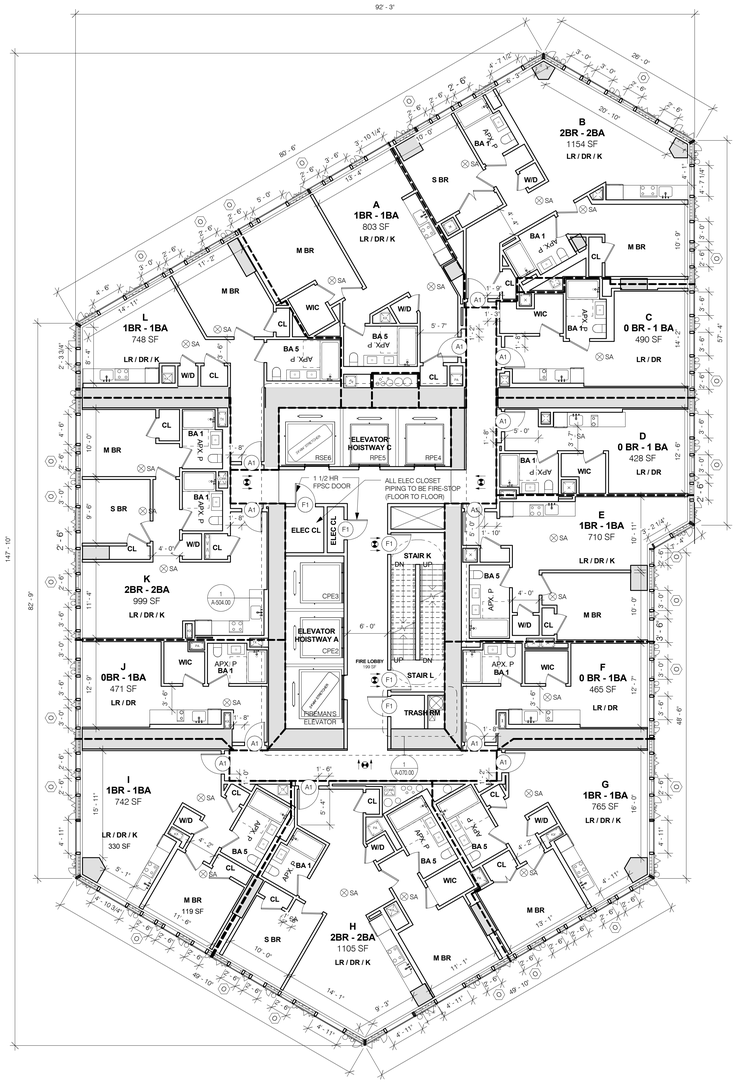
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

DRAWING NUMBER

A-106.00

DEPT OF BLDGS 320014308 Job Number

E-5941355040 Scan Code



LEGEND	
—1—	1 HR RATED
—2—	2 HR RATED
—3—	3 HR RATED
SA	COMBINATION SMOKE AND CO ALARM

CARBON MONOXIDE DETECTOR NOTE
1. HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH §28.2-908 AND BE INSTALLED IN ACCORDANCE WITH §28.2-908.7.1.2.
2. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE DETECTORS MUST BE FILED WITH THE DIVISION OF CODE ENFORCEMENT HPD, 10 DAYS AFTER INSTALLATION IS COMPLETE.

GENERAL NOTE FOR ALL W/D UNITS, TYP. FOR ALL FLOORS:
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LEVEL 08 - PLAN | 1/8" = 1'-0" | 1 / A-108.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 11TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 42TH STREET
NEW YORK, NY 10017
tel 212.687.9898

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES ARCHITECTURAL CONSERVATION & PLANNING

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 5A
NEW YORK, NY 10018
tel 212.759-6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315-6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2925

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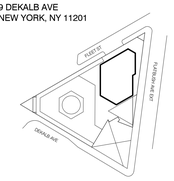
POOL
TRACE POOL DESIGN
330 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.465.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
21 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.223.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
07/01/16	FACADE BID PACKAGE			
02/05/16	100% SD REASSESSMENT			
3/13/15	100% SCHEMATIC DESIGN			

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DRAWING TITLE

FLOOR PLANS - LEVELS 08-14

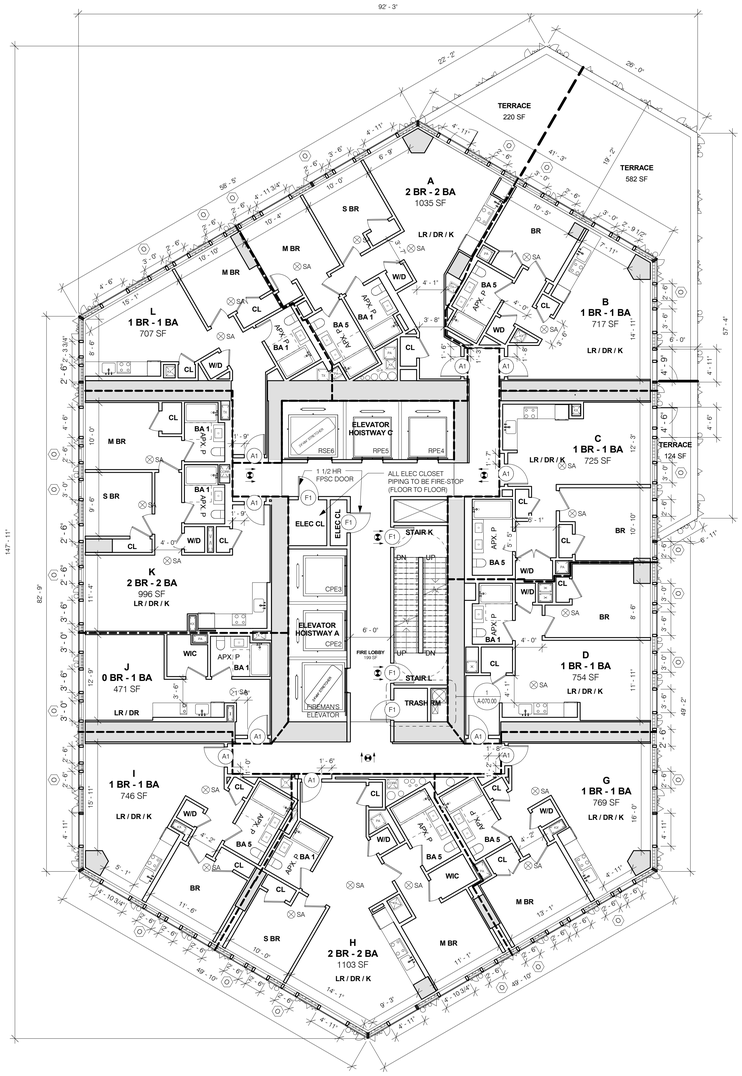
SEAL & SIGNATURE

REGISTERED ARCHITECT GREGORY A. PASQUARELLI 026905 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-108.00

DEPT OF BLDGS 320014336 Job Number

E-SIGN 320112 Scan Code



LEGEND	
1	1 HR RATED
2	2 HR RATED
3	3 HR RATED
SA	COMBINATION SMOKE AND CO ALARM

CARBON MONOXIDE DETECTOR NOTE
1. HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH §28-2-908 AND BE INSTALLED IN ACCORDANCE WITH §28-2-908.7.1.2.
2. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE DETECTORS MUST BE FILED WITH THE DIVISION OF CODE ENFORCEMENT HPD, 10 DAYS AFTER INSTALLATION IS COMPLETE.

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LEVEL 15 - PLAN (TERRACE) | 1/8" = 1'-0" | 1 / A-115.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9898

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9626

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 5A
NEW YORK, NY 10018
tel 212.759-6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315-6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2925

TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.455.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLAND STREET, 10TH FLOOR
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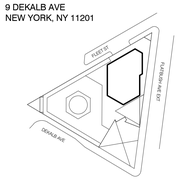
tel 212.223.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
04/21/16	FD / SDE DOB FILING SET			
07/01/16	FACADE BID PACKAGE			
02/05/16	100% SD REASSESSMENT			

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FLOOR PLANS - LEVELS 15-21

SEAL & SIGNATURE

REGISTERED ARCHITECT JESSICA FASSNIDGE 029918 STATE OF NEW YORK

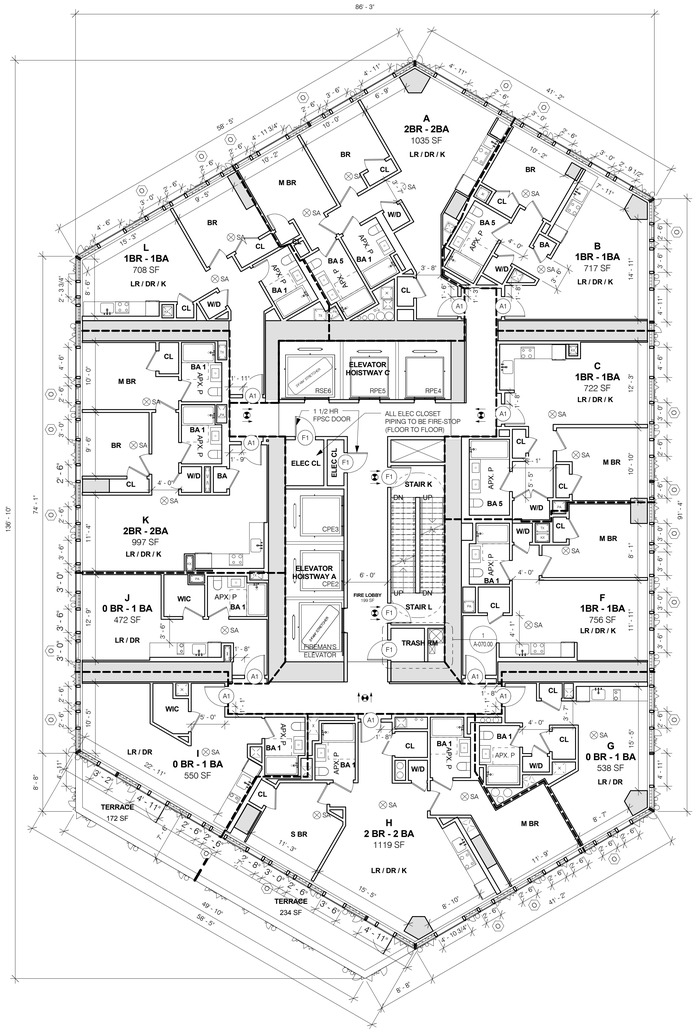
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

DRAWING NUMBER

A-115.00

DEPT OF BLDGS 320014338 Job Number

E164179037.01 Scan Code



LEGEND	
—1—	1 HR RATED
—2—	2 HR RATED
—3—	3 HR RATED
SA	COMBINATION SMOKE AND CO ALARM

CARBON MONOXIDE DETECTOR NOTE
1. HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH §28-2-908 AND BE INSTALLED IN ACCORDANCE WITH §28-2-908.7.1.2.
2. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE DETECTORS MUST BE FILED WITH THE DIVISION OF CODE ENFORCEMENT HPD, 10 DAYS AFTER INSTALLATION IS COMPLETE.

GENERAL NOTE FOR ALL W/D UNITS, TYP. FOR ALL FLOORS:
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LEVEL 22 - PLAN (TERRACE) | 1/8" = 1'-0" | 1 | A-122.00

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NEW YORK, NY 10005
tel 212.530.9300

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tel 212.687.9898

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NEW YORK, NY 10122
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NEW YORK, NY 10016
tel 646.388.9928

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NEW YORK, NY 10010
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GACHOT
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NEW YORK, NY 10012
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HISTORIC PRESERVATION
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NEW YORK, NY 10018
tel 212.759-6540

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237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.800.2802

SIMPSON GUMPERTZ & HEGER

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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NEW YORK, NY 10005
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333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.455.4290

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CODE CONSULTANT
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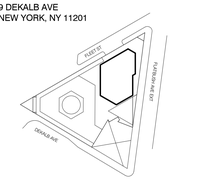
9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
07/01/16	FACADE BID PACKAGE
02/05/16	100% SD REASSESSMENT

NO.	DATE	REVISION

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DRAWING TITLE

FLOOR PLANS - LEVELS 22-26

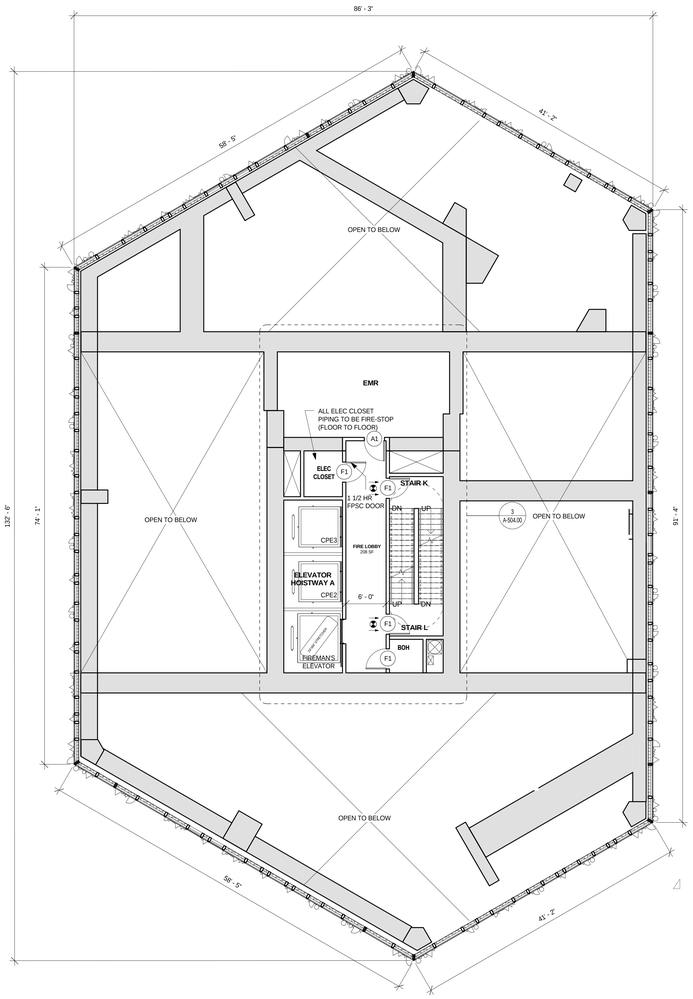
SEAL & SIGNATURE

REGISTERED ARCHITECT GREGORY A. PASQUARELLI 026905 STATE OF NEW YORK

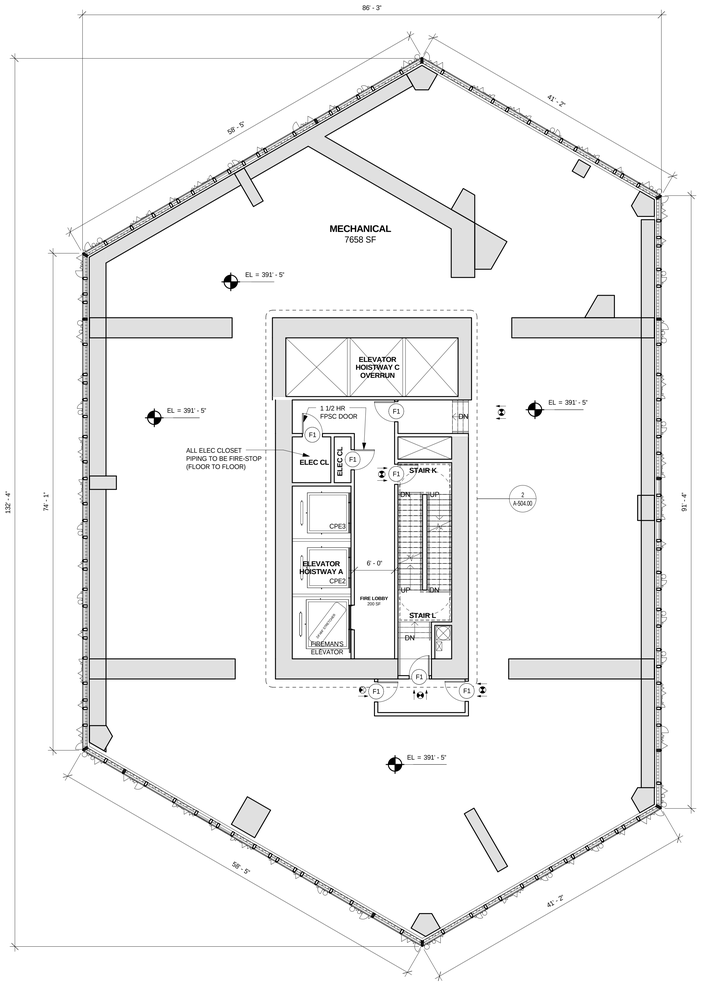
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-122.00

DEPT OF BLDGS 320914338 Job Number

B00695054A1 Scan Code



LEVEL 27 MEZZ - PLAN - EMR | 1/8" = 1'-0" | 2 | A-127.00



LEVEL 27 - PLAN - MECHANICAL | 1/8" = 1'-0" | 1 | A-127.00

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JDS DEVELOPMENT GROUP
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NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 45TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
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VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
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NEW YORK, NY 10010
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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
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1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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HACKENSACK, NJ 07601
tel 201.820.2802

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560 SEVENTH AVENUE, 15TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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CODE CONSULTANT
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22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.223.6344

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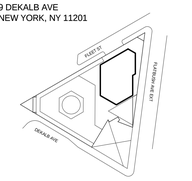

SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
07/01/16	FACADE BID PACKAGE
03/05/16	100% SD REASSESSMENT

NO.	DATE	REVISION

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DRAWING TITLE

FLOOR PLANS - LEVELS 27 / 27 MEZZ

SEAL & SIGNATURE

REGISTERED ARCHITECT JESSICA A. PASQUINELLI 026929 STATE OF NEW YORK

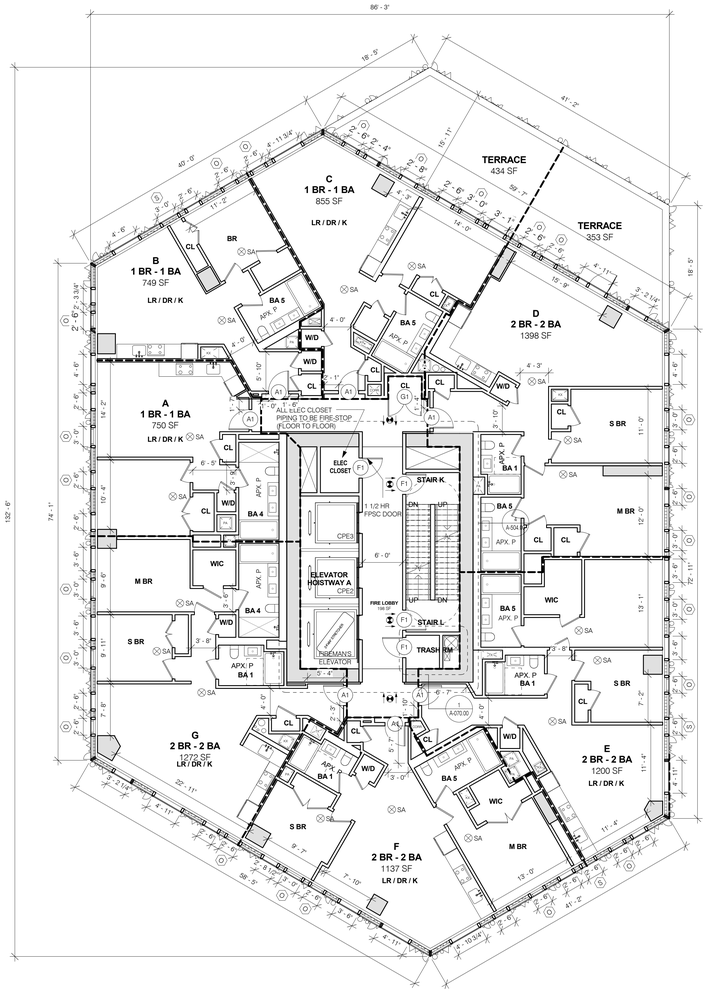
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

A-127.00

DEPT OF BLDGS 320014338 Job Number

E-320015932-01 Work Order



LEGEND	
—|—|—	1 HR RATED
—|—|—	2 HR RATED
—|—|—	3 HR RATED
SA	COMBINATION SMOKE AND CO ALARM

CARBON MONOXIDE DETECTOR NOTE
1. HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH §28.2-908 AND BE INSTALLED IN ACCORDANCE WITH §28.2-908.7.1.2.
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LEVEL 28 - PLAN (TERRACE) | 1/8" = 1'-0" | 1 / A-128.00

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JDS DEVELOPMENT GROUP
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NEW YORK, NY 10011
M 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
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NEW YORK, NY 10279
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MEP ENGINEER
JAROS, BAUM & BOLLES
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NEW YORK, NY 10005
M 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
M 212.687.9898

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GEOTECHNICAL ENGINEER
MRCE
253 WEST 35TH STREET 8TH FLOOR
NEW YORK, NY 10122
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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
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M 917.661.7800

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INTERIORS
GACHOT
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NEW YORK, NY 10012
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HISTORIC PRESERVATION
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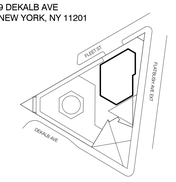

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07/15/16	DOB FILING SET
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02/05/16	100% SD REASSESSMENT

NO.	DATE	REVISION

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DRAWING TITLE

FLOOR PLANS - LEVELS 28-33

SEAL & SIGNATURE

REGISTERED ARCHITECT OMAR A. PASQUINELLI 029249 STATE OF NEW YORK

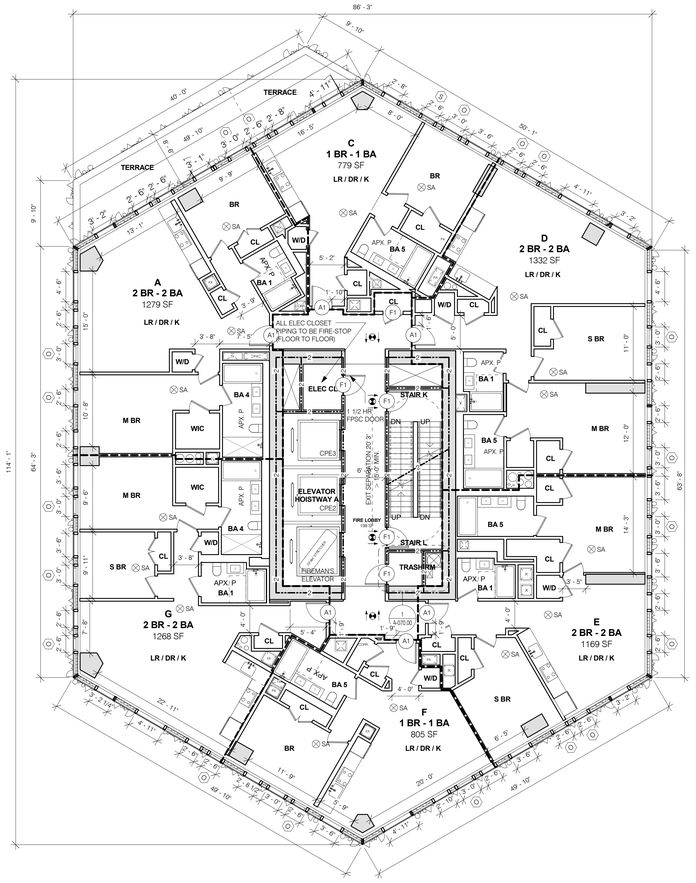
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

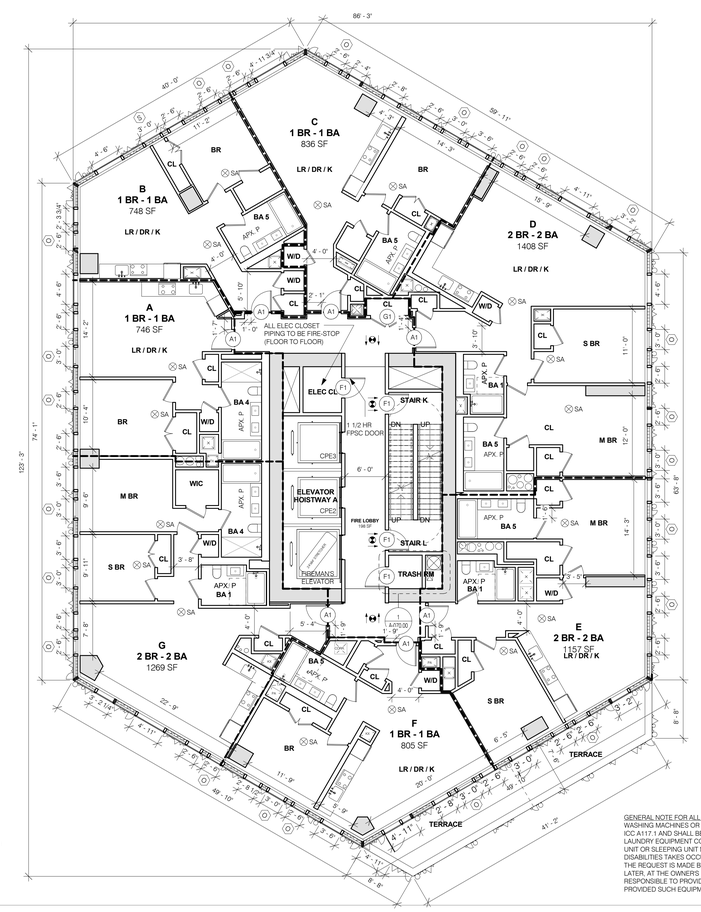
A-128.00

DEPT OF BLDGS 320914338 Job Number

E1634535420US Scan Code



LEVEL 40 - PLAN (TERRACE) | 1/8" = 1'-0" | 2 | A-134.00



LEVEL 34 - PLAN (TERRACE) | 1/8" = 1'-0" | 1 | A-134.00

LEGEND

—·—1—·—	1 HR RATED
—··—2—··—	2 HR RATED
——3——	3 HR RATED
SA	COMBINATION SMOKE AND CO ALARM

CARBON MONOXIDE DETECTOR NOTE
1. HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH §28-2-908 AND BE INSTALLED IN ACCORDANCE WITH §28-2-908.7.1.2.
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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9898

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 35TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
39A BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-6540

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NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1412 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
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WHITE PLAINS, NY 10604
tel 914.485.4390

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METROPOLIS GROUP, INC.
22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.223.6344

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NEW YORK, NY 11201

SITE DIAGRAM

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DRAWING TITLE

FLOOR PLANS - LEVELS 34-39 / 40-44

SEAL & SIGNATURE

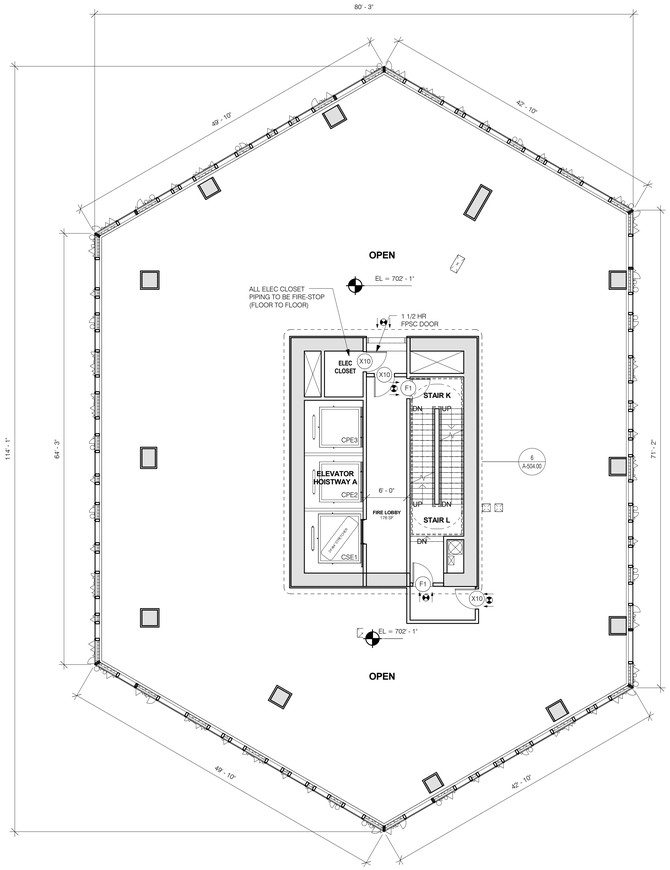
REGISTERED ARCHITECT JOSEPH A. PASQUARELLI 026292 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

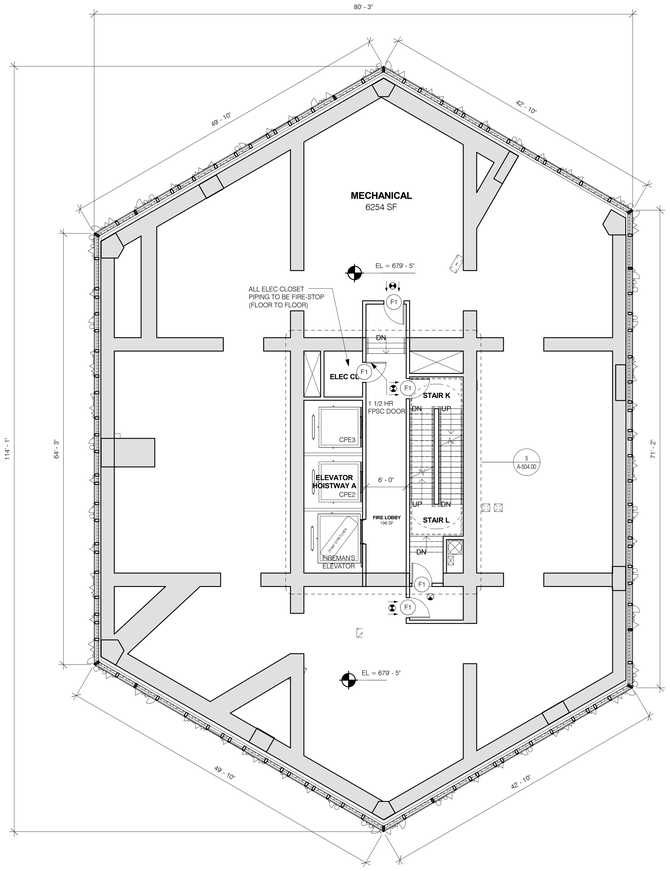
DRAWING NUMBER

A-134.00

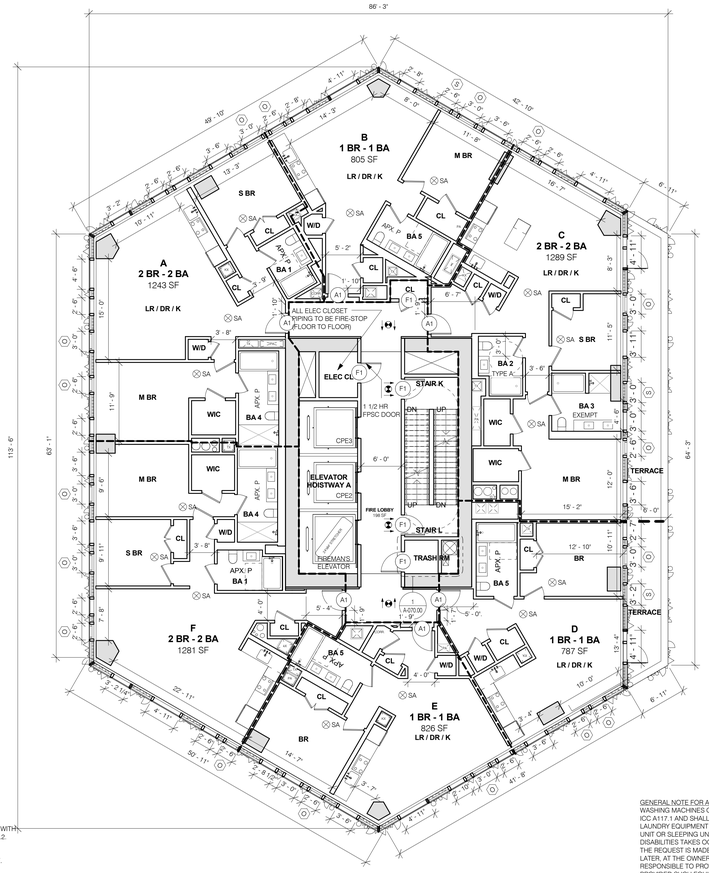
DEPT OF BLDGS 320914338 Job Number
B 3320914338 Scan Code



LEVEL 50 - MECH / WINDBREAK | 1/8" = 1'-0" | 3 / A-145.00



LEVEL 49 - MECHANICAL | 1/8" = 1'-0" | 2 / A-145.00



LEVEL 45 - PLAN (TERRACE) | 1/8" = 1'-0" | 1 / A-145.00

LEGEND

—1—	1 HR RATED
—2—	2 HR RATED
—3—	3 HR RATED
SA	COMBINATION SMOKE AND CO ALARM

CARBON MONOXIDE DETECTOR NOTE
1. HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH §28.2-908 AND BE INSTALLED IN ACCORDANCE WITH §28.2-908.7.1.2.
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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

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WSP CANTOR SEINUK
235 HIST 44TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
253 WEST 35TH STREET 8TH FLOOR
NEW YORK, NY 10122
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AKRF
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NEW YORK, NY 10016
tel 646.388.9928

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VAN DEUSEN & ASSOCIATES
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EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
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NEW YORK, NY 10012
tel 646.666.0846

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LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINEERING
196 ANDES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7500

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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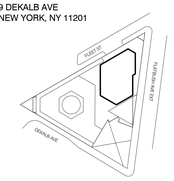
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4390

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233-6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
04/21/16	FD / SOE DOB FILING SET
07/01/16	FACADE BID PACKAGE
02/05/16	100% SD REASSESSMENT

NO.	DATE	REVISION

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DRAWING TITLE

FLOOR PLANS - LEVELS 45-48 / 49 / 50

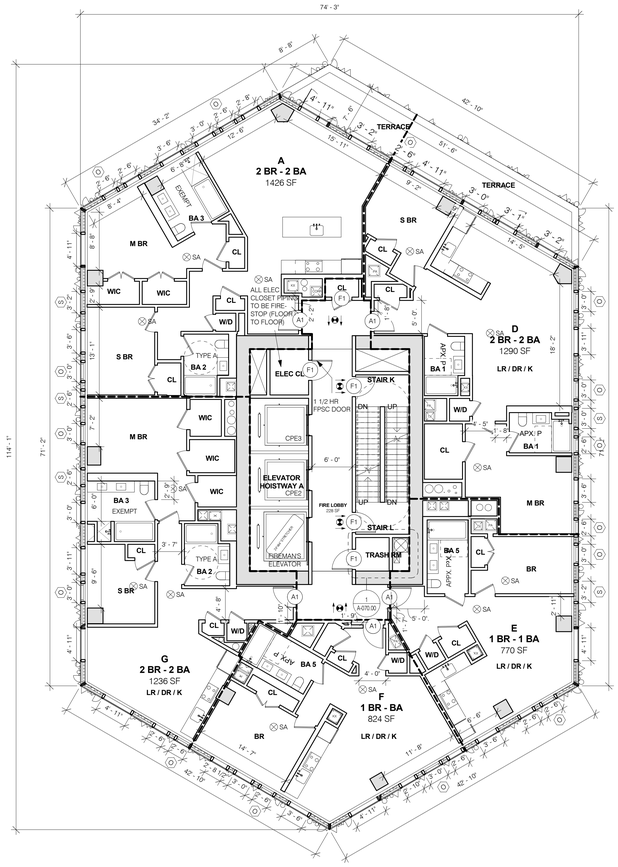
SEAL & SIGNATURE

REGISTERED ARCHITECT JOSHUA A. PASQUARELLA 026292 STATE OF NEW YORK

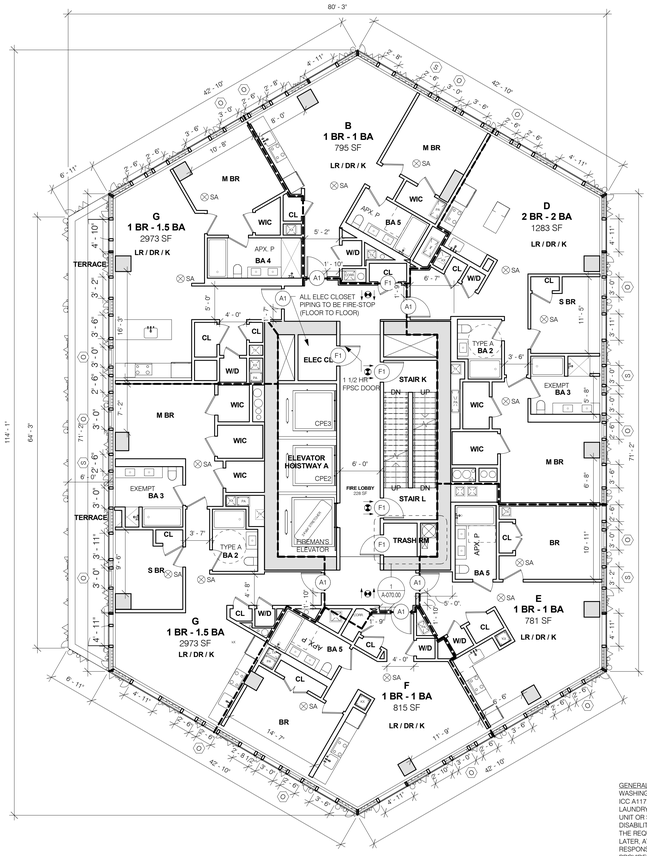
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-145.00

DEPT OF BLDGS 320914338 Job Number

E-Designation Scan Code



LEVEL 56 - PLAN (TERRACE) | 1/8" = 1'-0" | 2 / A-151.00



LEGEND

—·—1—·—	1 HR RATED
—··—2—··—	2 HR RATED
——3——	3 HR RATED
SA	COMBINATION SMOKE AND CO ALARM

CARBON MONOXIDE DETECTOR NOTE
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LEVEL 51 - PLAN (TERRACE) | 1/8" = 1'-0" | 1 / A-151.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 42TH STREET
NEW YORK, NY 10017
tel 212.687.9898

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

SIMPSON GUMPERTZ & HEGER

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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NEW YORK, NY 10005
tel 212.334.2025

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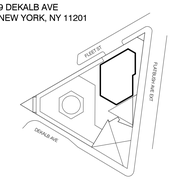
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233-6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
07/01/16	FACADE BID PACKAGE			
02/05/16	100% SD REASSESSMENT			

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DRAWING TITLE

FLOOR PLANS - LEVELS 51-55 / 56-60

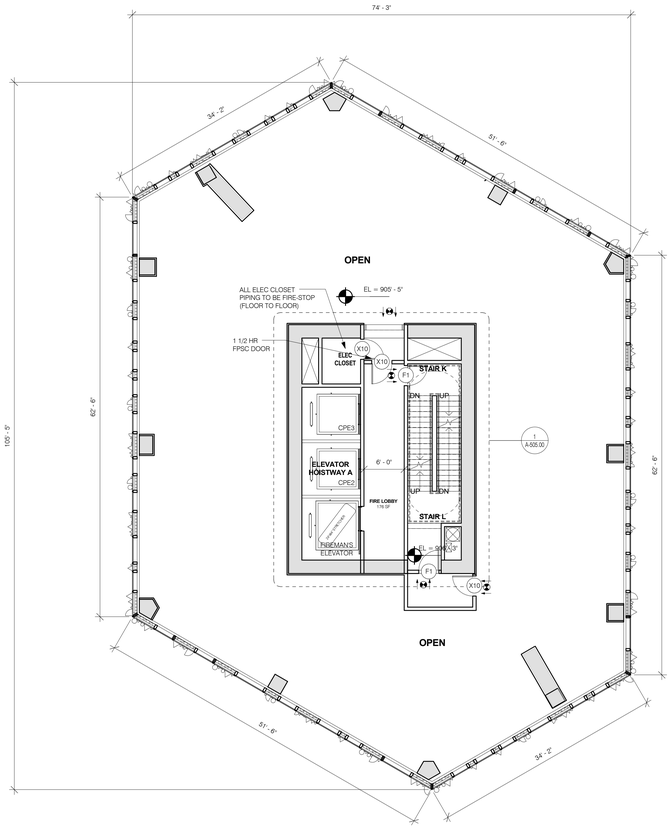
SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASQUARELLI 026292 STATE OF NEW YORK

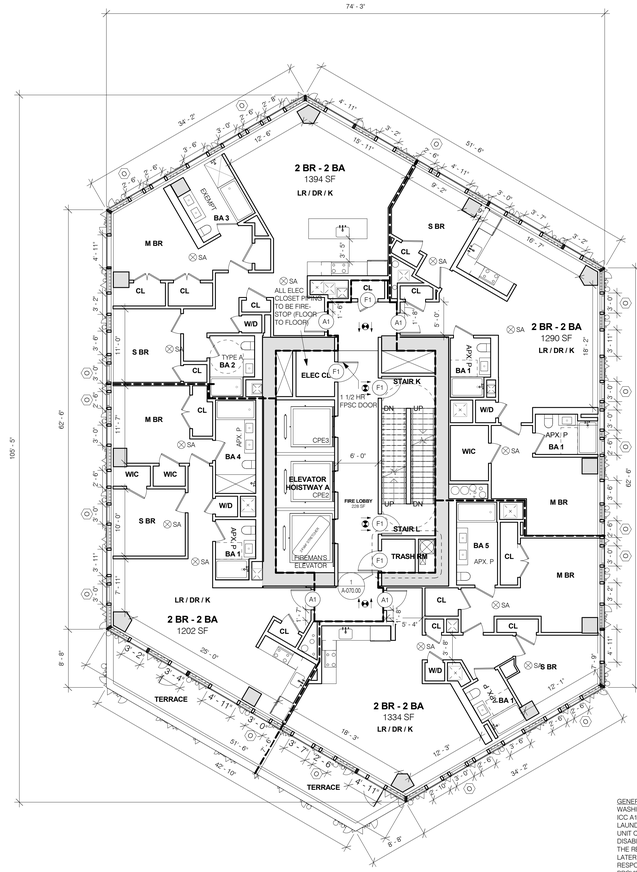
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338
DRAWING NUMBER	A-151.00

DEPT OF BLDGS 320014338 Job Number

E-590936113BK Scan Code



LEVEL 65 - PLAN - MECH / WINDBREAK | 1/8" = 1'-0" | 2 | A-161.00



LEGEND

—|—1—|—	1 HR RATED
—|—2—|—	2 HR RATED
——3——	3 HR RATED
SA	COMBINATION SMOKE AND CO ALARM

CARBON MONOXIDE DETECTOR NOTE
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LEVEL 61 - PLAN (TERRACE) | 1/8" = 1'-0" | 1 | A-161.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS, BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
253 WEST 35TH STREET 8TH FLOOR
NEW YORK, NY 10122
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440 PARK AVE SOUTH 7TH FLOOR
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EAST HANOVER, NJ 07936
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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
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tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
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JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
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tel 212.759-0540

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ENTEK ENGINEERING
196 ANDES STREET
HACKENSACK, NJ 07601
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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
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tel 914.485.4090

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NEW YORK, NY 10007
tel 212.233-6344

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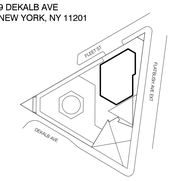
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
07/01/16	FACADE BID PACKAGE			
02/05/16	100% SD REASSESSMENT			

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DRAWING TITLE

FLOOR PLANS - LEVELS 61-64 / 65

SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASQUARELLI 026292 STATE OF NEW YORK

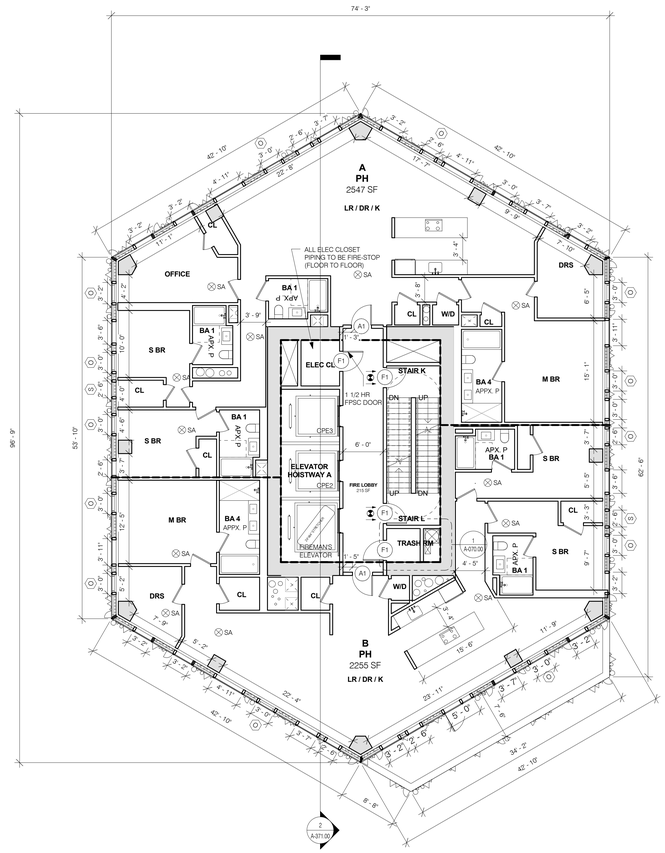
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

DRAWING NUMBER

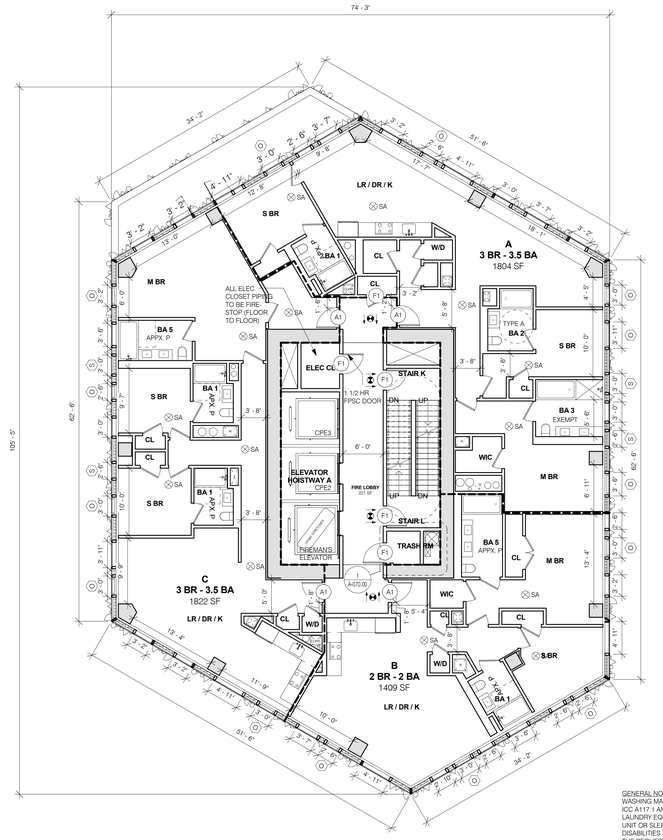
A-161.00

DEPT OF BLDGS 320914338 Job Number

B00055425488 Scan Code



LEVEL 70 - PLAN (TERRACE) | 1/8" = 1'-0" | 2 / A-166.00



LEGEND

---1---	1 HR RATED
---2---	2 HR RATED
——3——	3 HR RATED
SA	COMBINATION SMOKE AND CO ALARM

CARBON MONOXIDE DETECTOR NOTE
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LEVEL 66 - PLAN (TERRACE) | 1/8" = 1'-0" | 1 / A-166.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS, BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 35TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9626

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7500

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22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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NEW YORK, NY 11201

SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
07/01/16	FACADE BID PACKAGE			
02/05/16	100% SD REASSESSMENT			

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DRAWING TITLE

FLOOR PLANS - LEVELS 66-69 / 70-71

SEAL & SIGNATURE

REGISTERED ARCHITECT JESSICA A. PASQUARELLI 026292 STATE OF NEW YORK

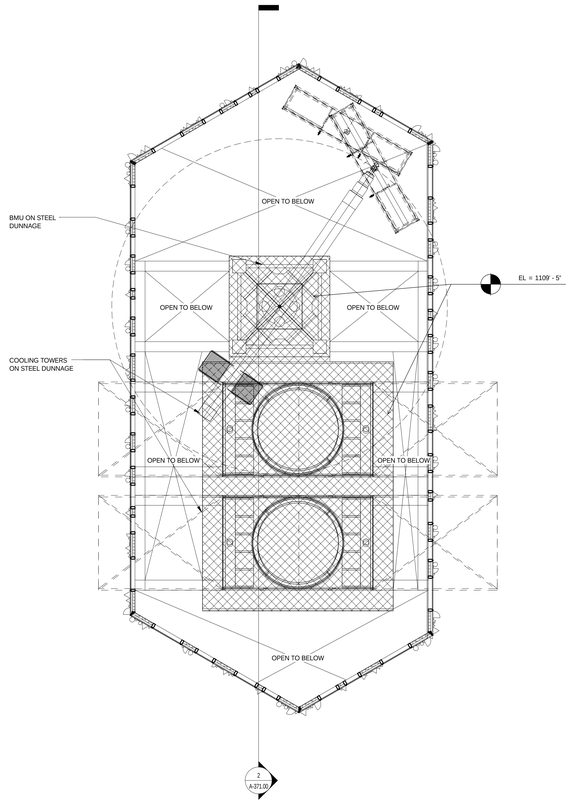
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

DRAWING NUMBER

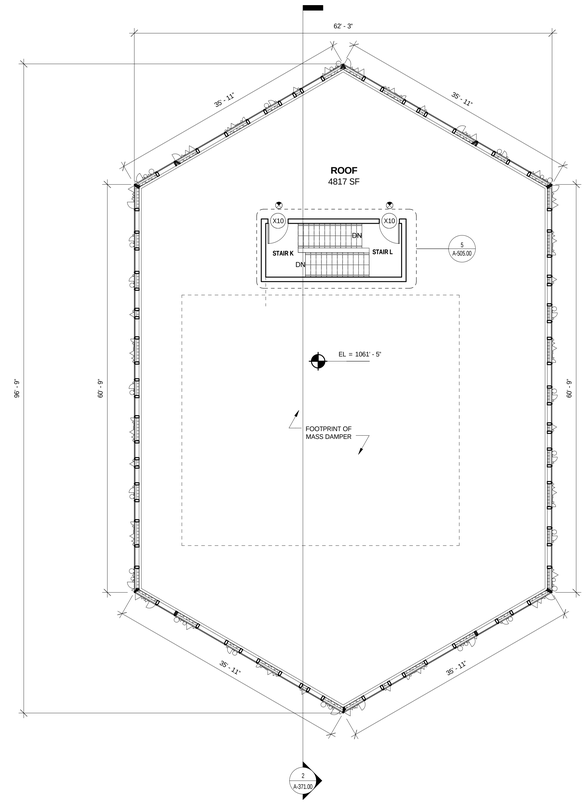
A-166.00

DEPT OF BLDGS 320914338 Job Number

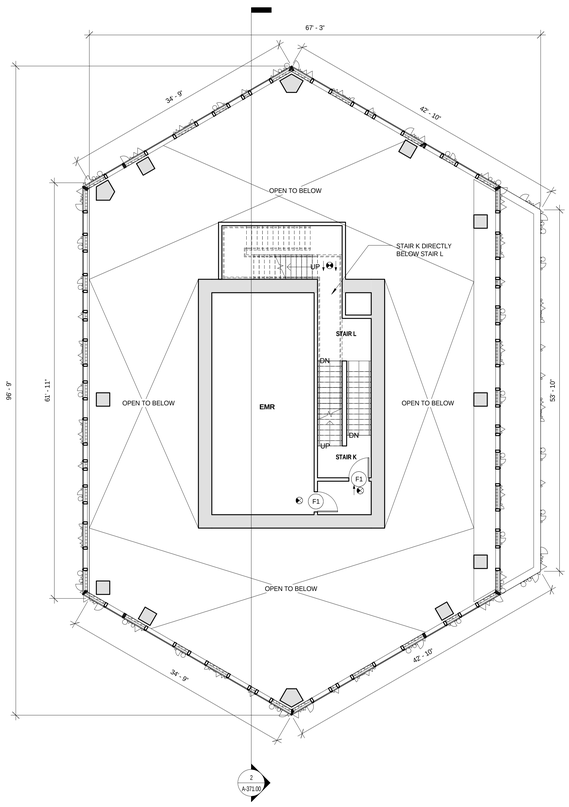
B524128075 Scan Code



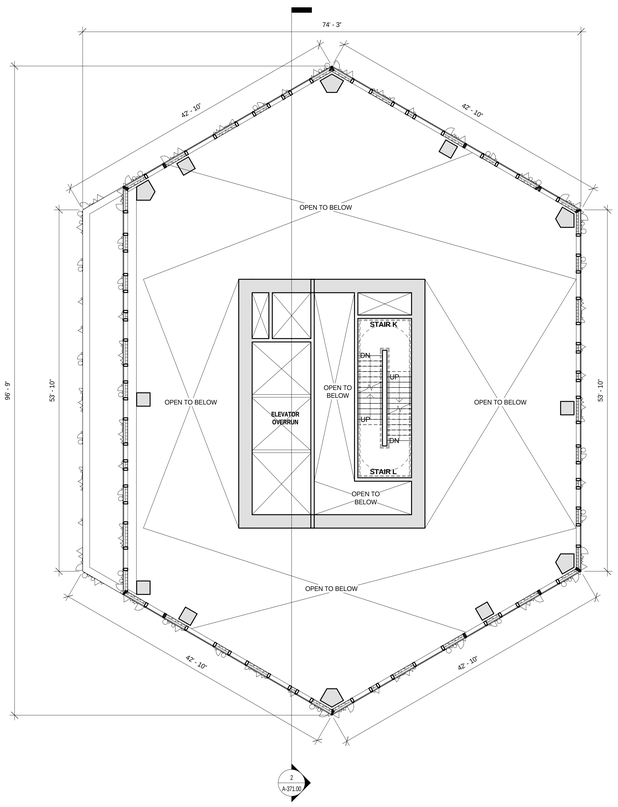
ROOF +48' - PLAN - BMU / MECHANICAL | 1/8" = 1'-0" | 5 | A-172.00



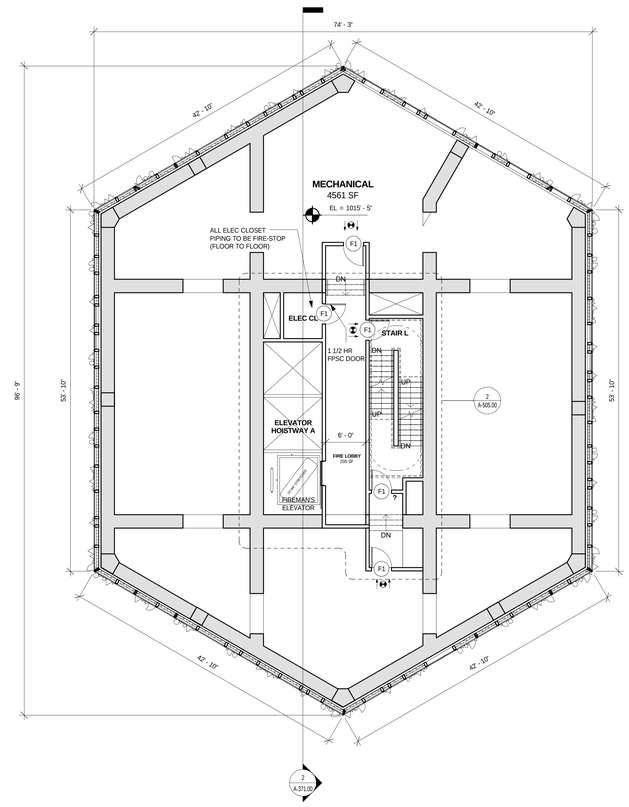
ROOF - PLAN | 1/8" = 1'-0" | 4 | A-172.00



LEVEL 72 +32' - PLAN - EMR | 1/8" = 1'-0" | 3 | A-172.00



LEVEL 72 +16' - PLAN - MECHANICAL | 1/8" = 1'-0" | 2 | A-172.00



LEVEL 72 - PLAN - MECHANICAL | 1/8" = 1'-0" | 1 | A-172.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION & PLANNING

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.759.6540

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LIGHTING
BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10016
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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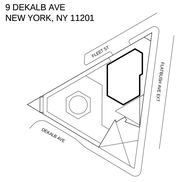
POOL
TRACE POOL DESIGN
210 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.223.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
04/21/16	FD / SOE DOB FILING SET
07/01/16	FACADE BID PACKAGE
02/05/16	100% SD REASSESSMENT

NO.	DATE	REVISION

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DRAWING TITLE

FLOOR PLANS - LEVELS 72 / 72 +16' / 72 +32' / ROOF

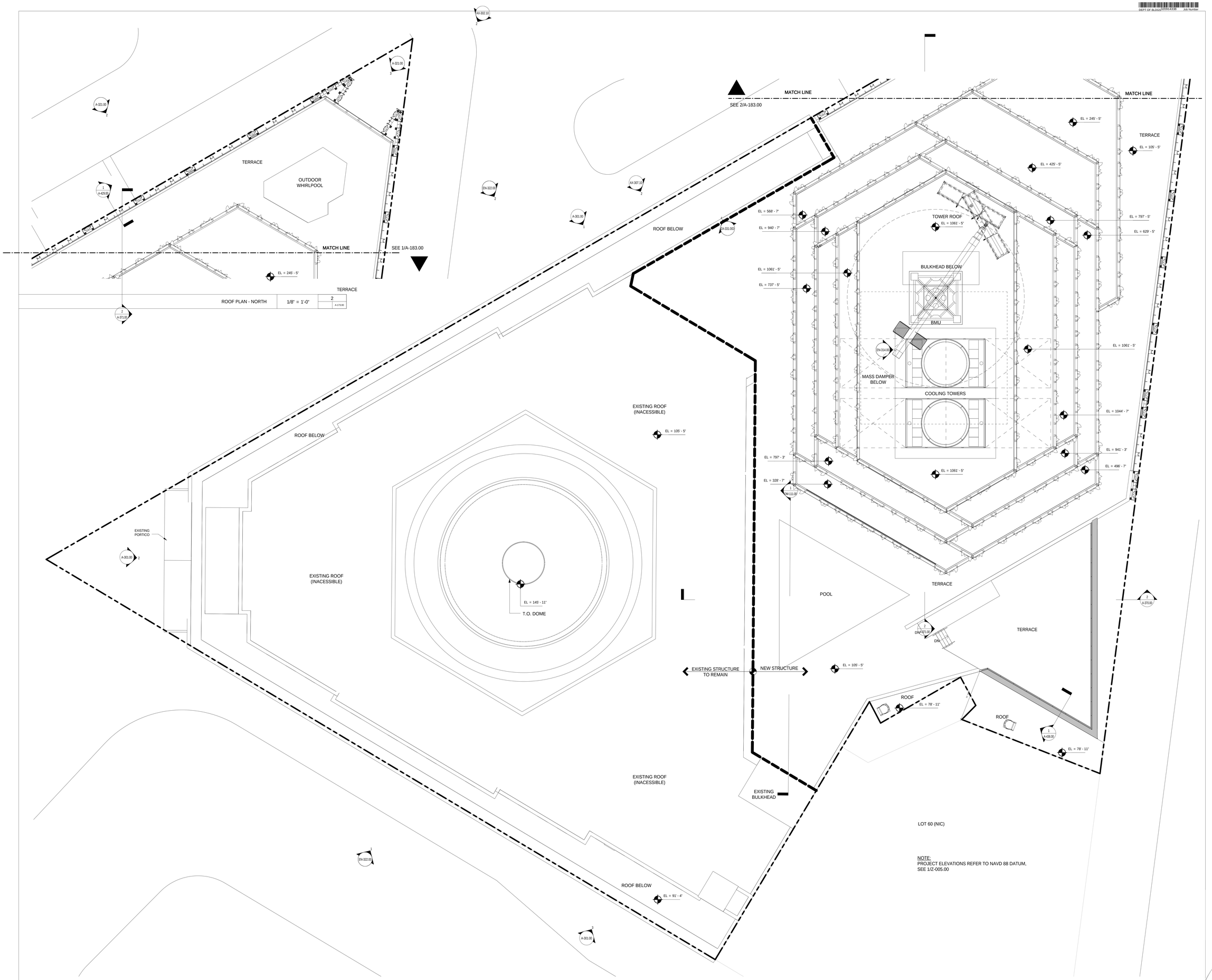
SEAL & SIGNATURE

REGISTERED ARCHITECT GREGORY A. TASSOPOULOS STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338
DRAWING NUMBER	A-172.00

DEPT OF BLDGS 320914338 Job Number

E 540509 Scan Code



NOTE:
PROJECT ELEVATIONS REFER TO NAVD 88 DATUM,
SEE 1/Z-005.00

ROOF PLAN - NORTH | 1/8" = 1'-0" | 2 / A-173.00

ROOF PLAN - SOUTH | 1/8" = 1'-0" | 1 / A-173.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.759.6540

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237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7800

VIDARIS

BUILDING ENERGY
VIDARIS
260 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BURO HAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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tel 914.495.4290

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22 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.223.6344

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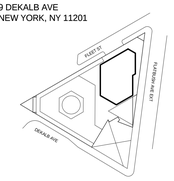
9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
10/06/16	DOB FILING SET REV 2
07/15/16	DOB FILING SET
07/01/16	FACADE BID PACKAGE
02/05/16	100% SD REASSESSMENT
05/05/15	DOB FILING SET
3/13/15	100% SCHEMATIC DESIGN

NO.	DATE	REVISION

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DRAWING TITLE

ROOF PLAN

SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASQUARELLI STATE OF NEW YORK

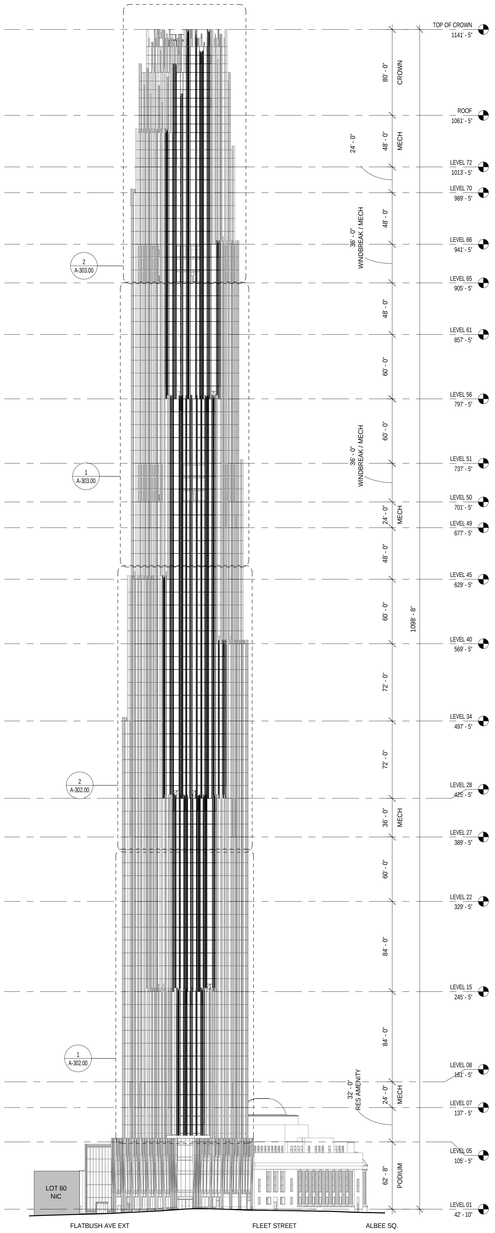
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

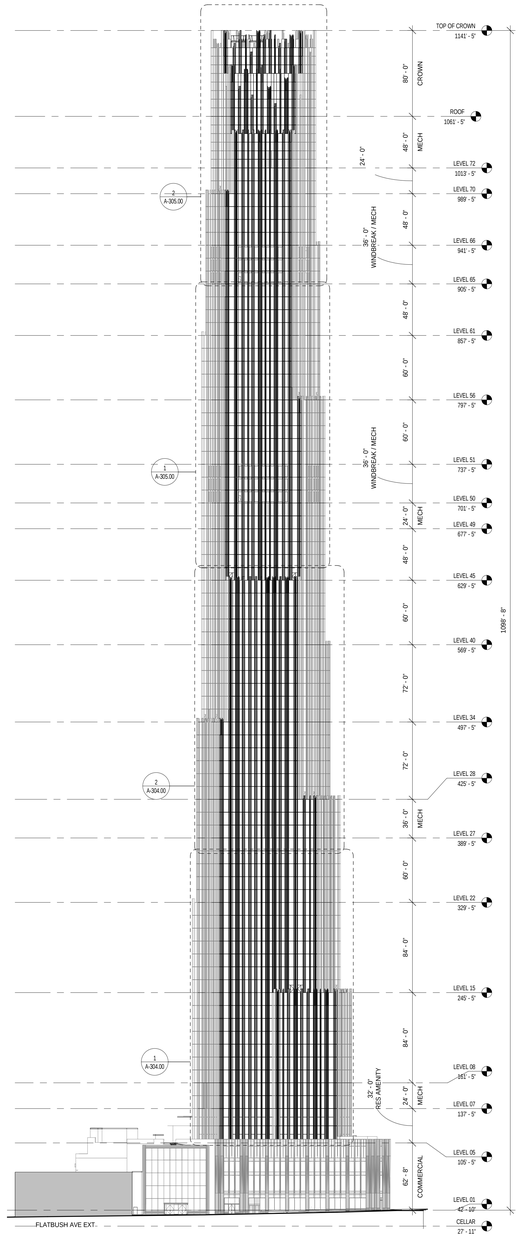
A-173.00

DEPT OF BLDGS 320914338 Job Number

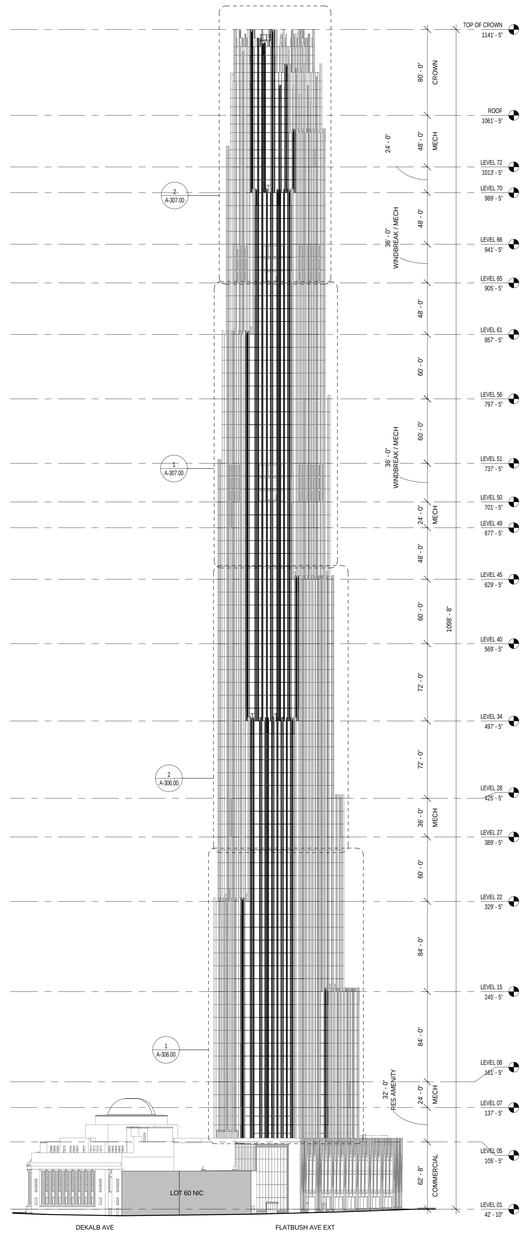
B1331357938 Scan Code



TOWER KEY ELEVATION - NORTH | 1" = 50'-0" | 3 / A-300.00



TOWER KEY ELEVATION - NORTHEAST | 1" = 50'-0" | 2 / A-300.00



TOWER KEY ELEVATION - SOUTHEAST | 1" = 50'-0" | 1 / A-300.00

* NOTE:
PROJECT ELEVATIONS REFER TO NAVD 88 DATUM, SEE SITE SURVEY; Z-001.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.487-9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.759-0540

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227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.889.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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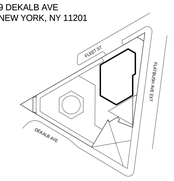
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
07/01/16	FACADE BID PACKAGE
02/05/16	100% SD REASSESSMENT
05/05/15	DOB FILING SET
3/13/15	100% SCHEMATIC DESIGN

NO.	DATE	REVISION

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DRAWING TITLE

TOWER KEY ELEVATIONS

SEAL & SIGNATURE

REGISTERED ARCHITECT GREGORY PASQUARELLI OZKAN STATE OF NEW YORK

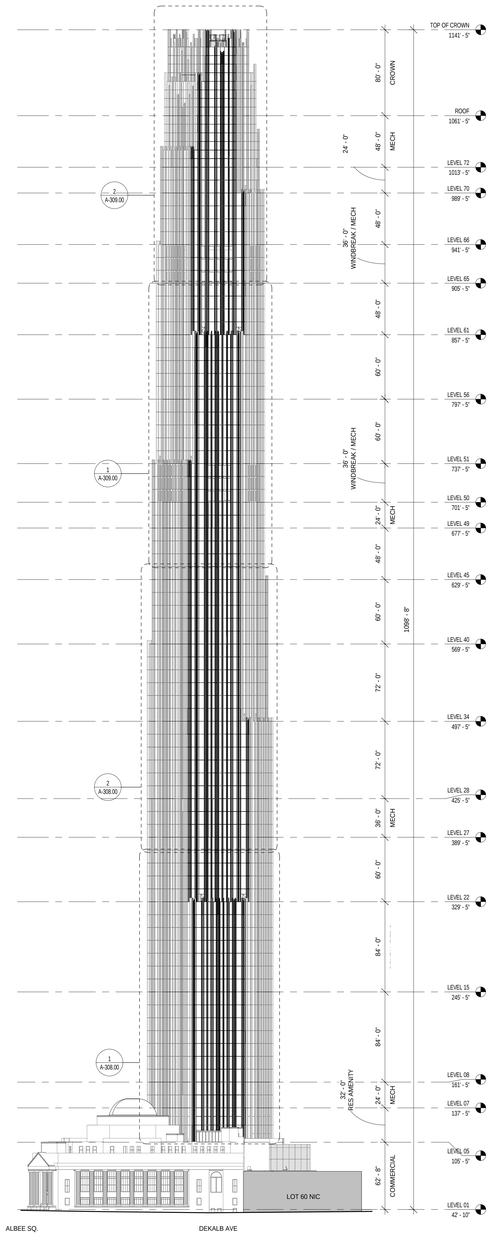
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

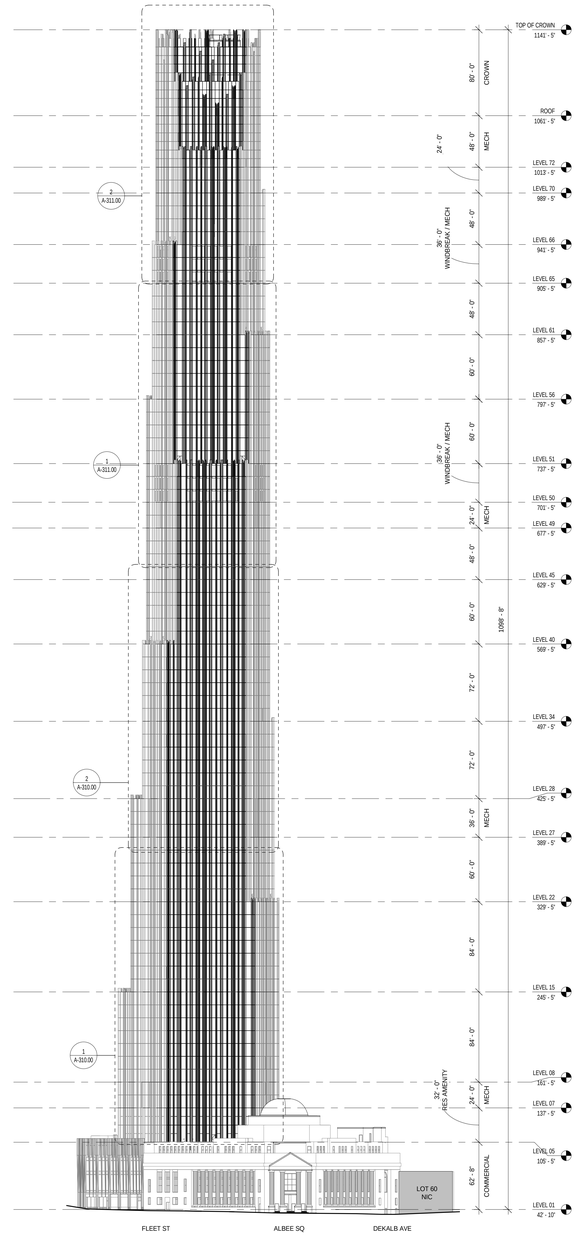
A-300.00

DEPT OF BLDGS 320914338 Job Number

B1032104SG Scan Code

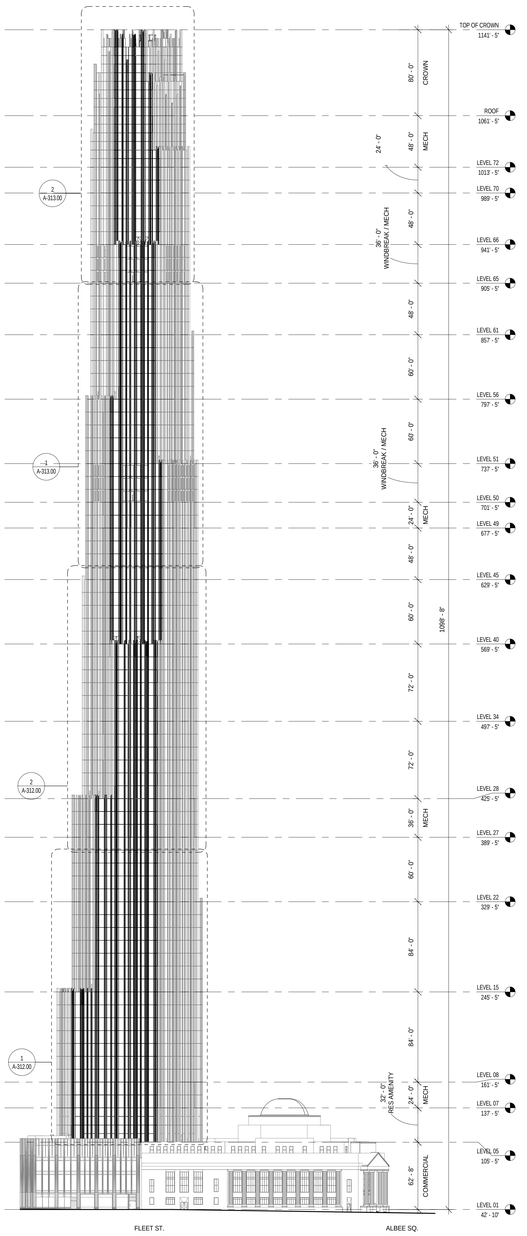


TOWER KEY ELEVATION - SOUTH | 1" = 50'-0" | 3 | A-301.00



TOWER KEY ELEVATION - SOUTHWEST | 1" = 50'-0" | 2 | A-301.00

* NOTE:
PROJECT ELEVATIONS REFER TO NAVD 88 DATUM, SEE SITE SURVEY; Z-001.00



TOWER KEY ELEVATION - NORTHWEST | 1" = 50'-0" | 1 | A-301.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
220 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.755-0540

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LIGHTING
BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEX ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.889.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

LaBarre TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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NEW YORK, NY 10007
tel 212.233.6344

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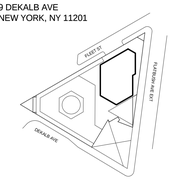
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/01/16	DOB FILING SET			
07/01/16	FACADE BID PACKAGE			
02/05/16	100% SD REASSESSMENT			

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DRAWING TITLE

TOWER KEY ELEVATIONS

SEAL & SIGNATURE

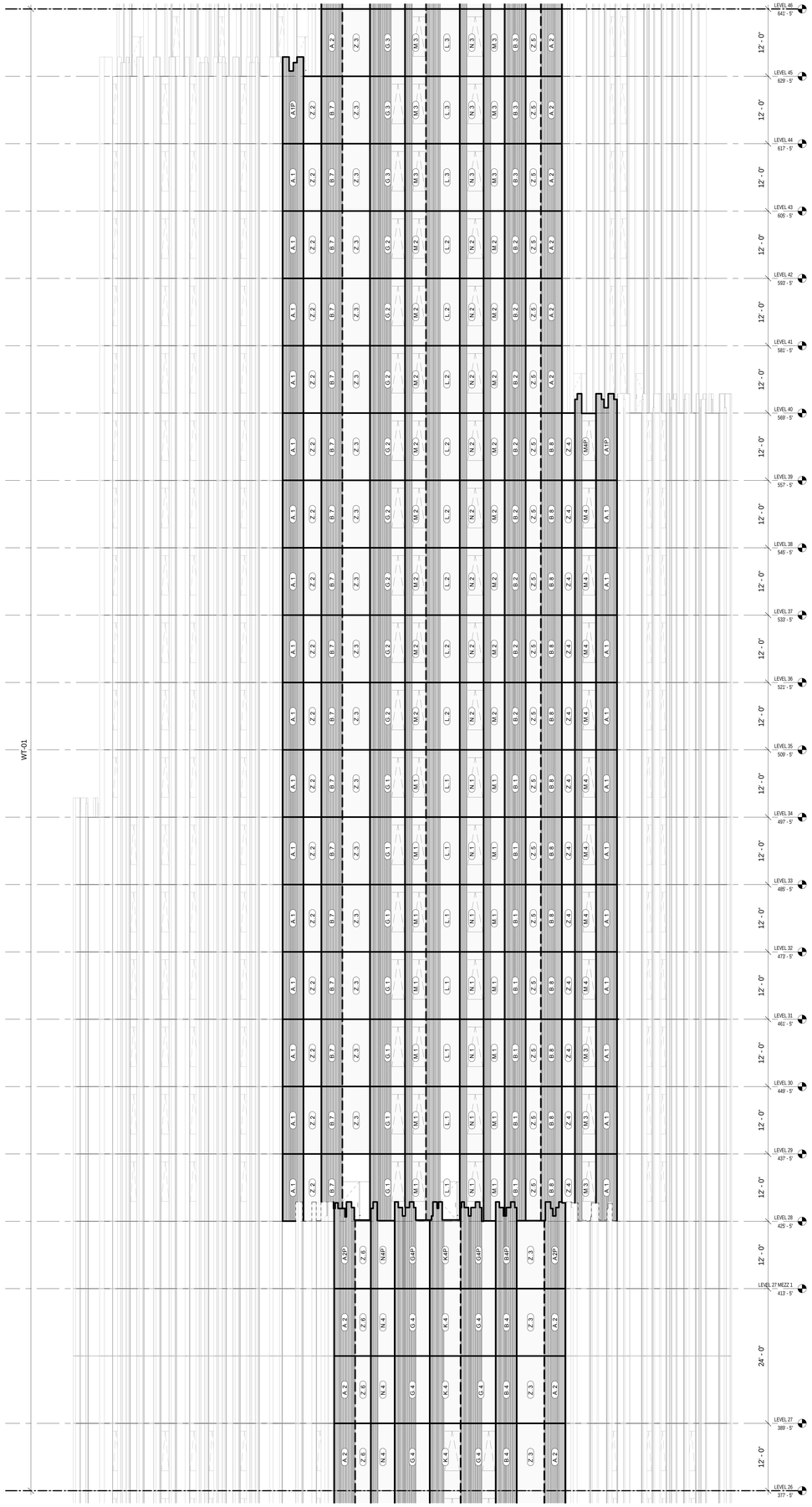
REGISTERED ARCHITECT GREGORY PASCHKEWITZ OZWHO STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

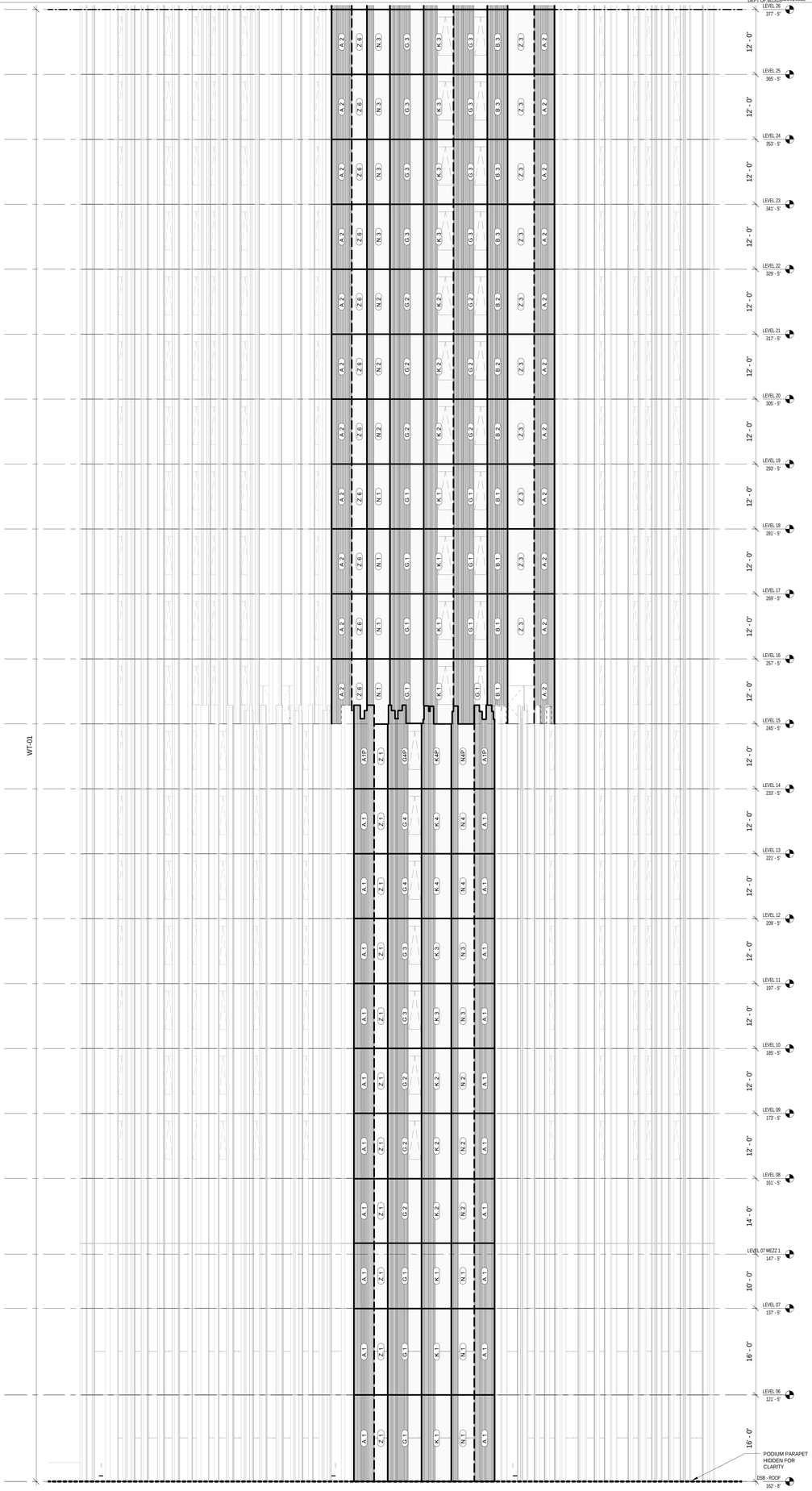
DRAWING NUMBER

A-301.00

DEPT OF BLDGS 320914338 Job Number
E304782405US Scan Code



TOWER ELEVATION - NORTH - 2 | 1/8" = 1'-0" | 2 / A-302.00



TOWER ELEVATION - NORTH - 1 | 1/8" = 1'-0" | 1 / A-302.00

TOWER ELEVATION - LEGEND

- OPAQUE AREA
- GLAZING AREA
- PANEL JOINT W/ BMU TRACK
- PANEL JOINT

PANEL TAGS

PANEL TYPE
PROFILE MIX ZONE / WIDTH DESIGNATION
C.2

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

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AKRF
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NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
154 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

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BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEX ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEX ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
103 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201

SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
07/01/16	FACADE BID PACKAGE

NO.	DATE	REVISION

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DRAWING TITLE

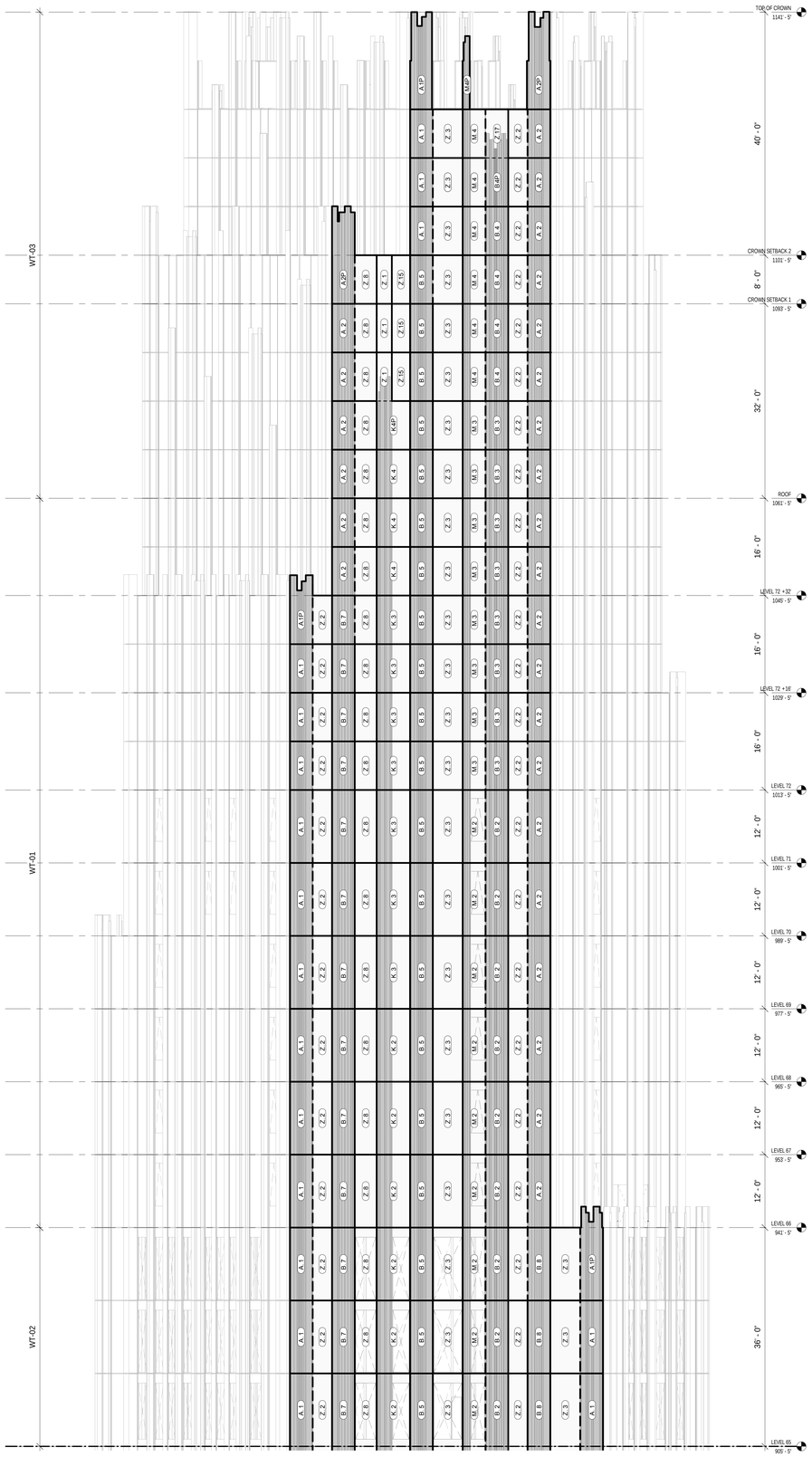
TOWER ELEVATIONS - NORTH - A

SEAL & SIGNATURE

REGISTERED ARCHITECT DEBRA L. PASQUARELLI 029926 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-302.00

DEPT OF BLDGS 320914338 Job Number
E1638862Online Scan Code



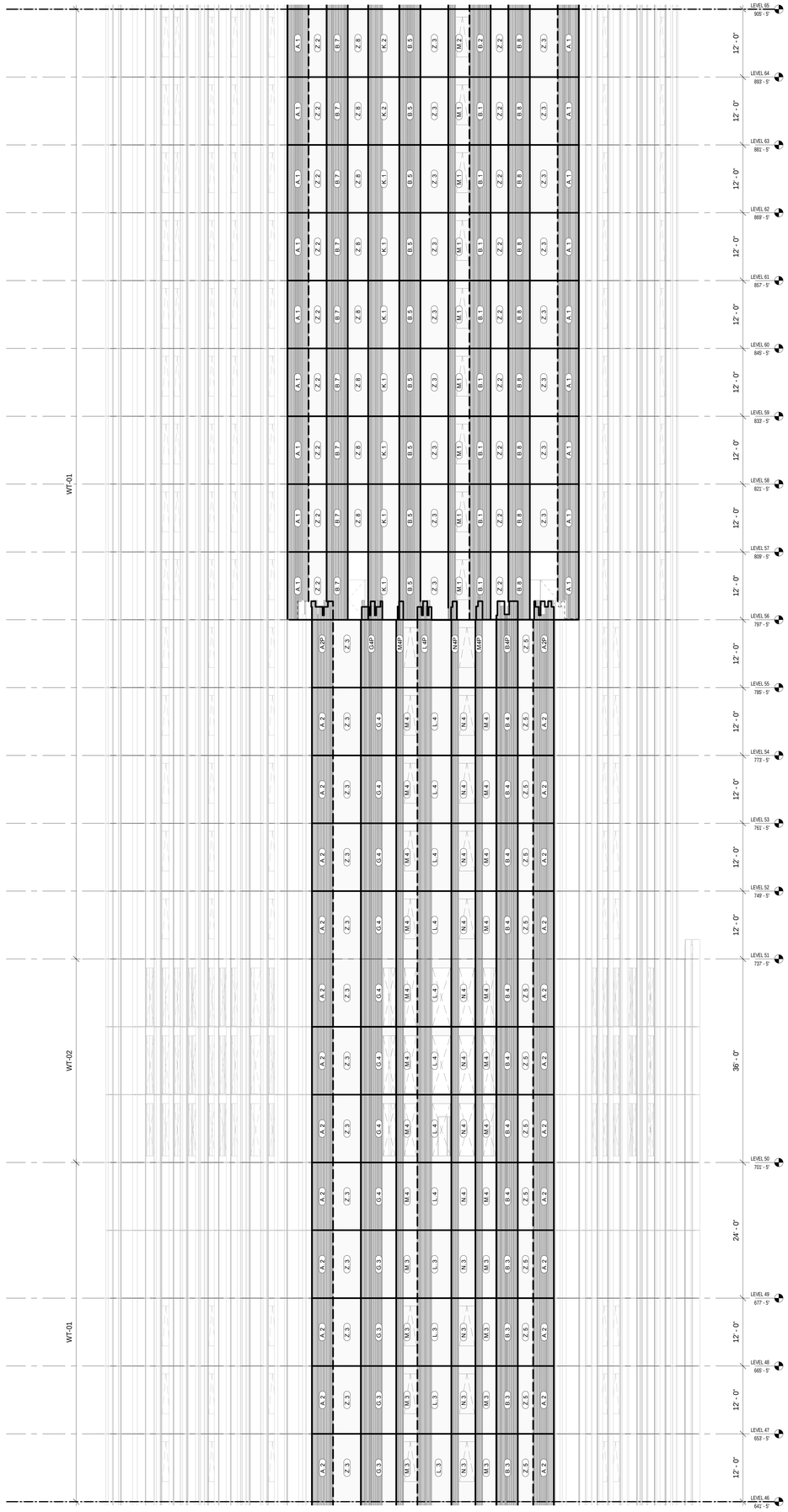
TOWER ELEVATION - LEGEND

- OPAQUE AREA
- GLAZING AREA
- PANEL JOINT W/ BMU TRACK
- PANEL JOINT

PANEL TAGS

C.2 — PANEL TYPE; PROFILE MIX ZONE / WIDTH DESIGNATION

TOWER ELEVATION - NORTH - 4 | 1/8" = 1'-0" | 2 / A-303.00



TOWER ELEVATION - NORTH - 3 | 1/8" = 1'-0" | 1 / A-303.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.755-5540

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LIGHTING
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237 WEST 35TH STREET
NEW YORK, NY 10001
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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
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166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

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560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.889.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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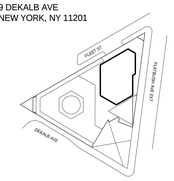
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
07/01/16	FACADE BID PACKAGE
02/05/16	100% SD REASSESSMENT

NO.	DATE	REVISION

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DRAWING TITLE

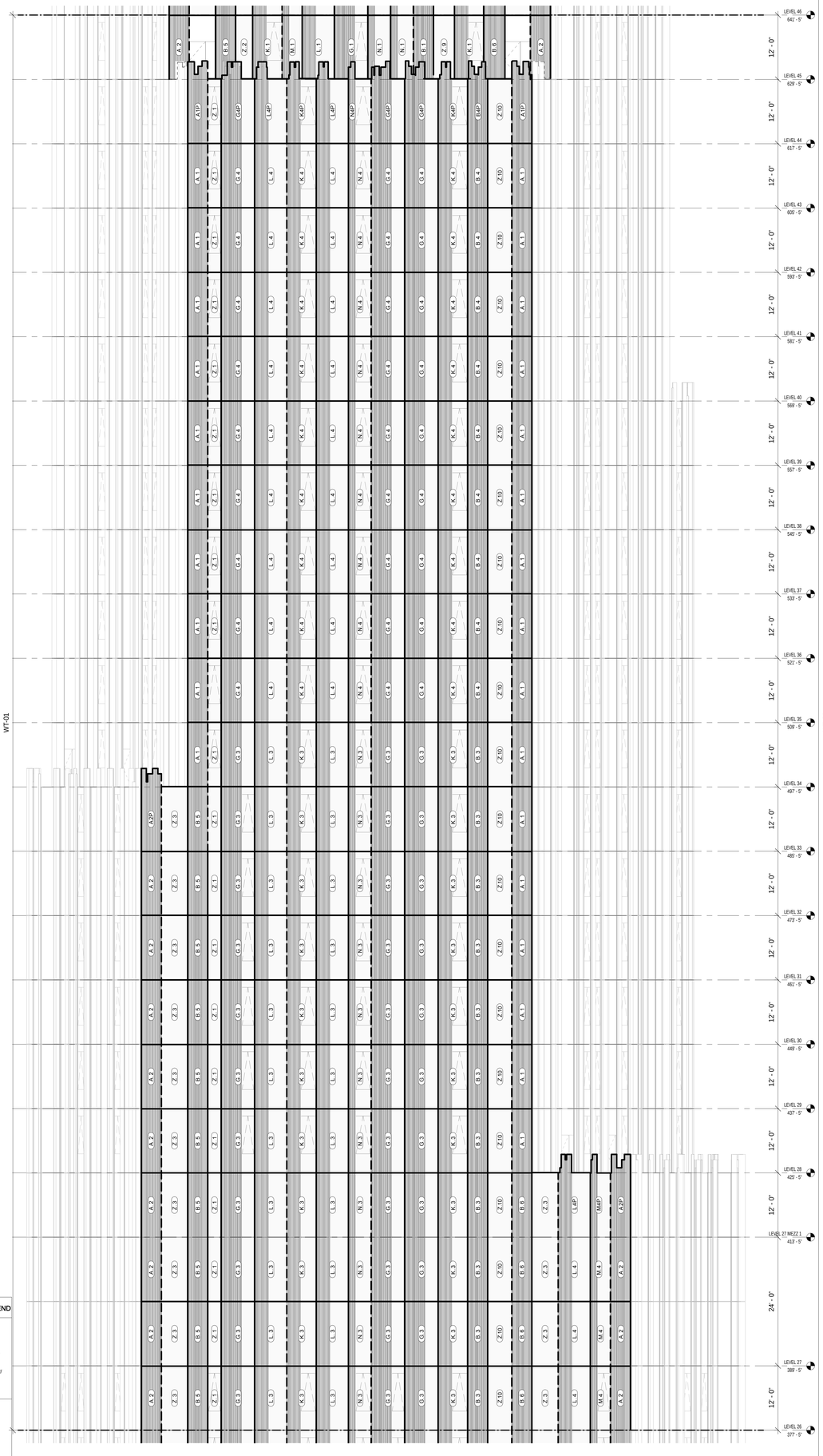
TOWER ELEVATIONS - NORTH - B

SEAL & SIGNATURE

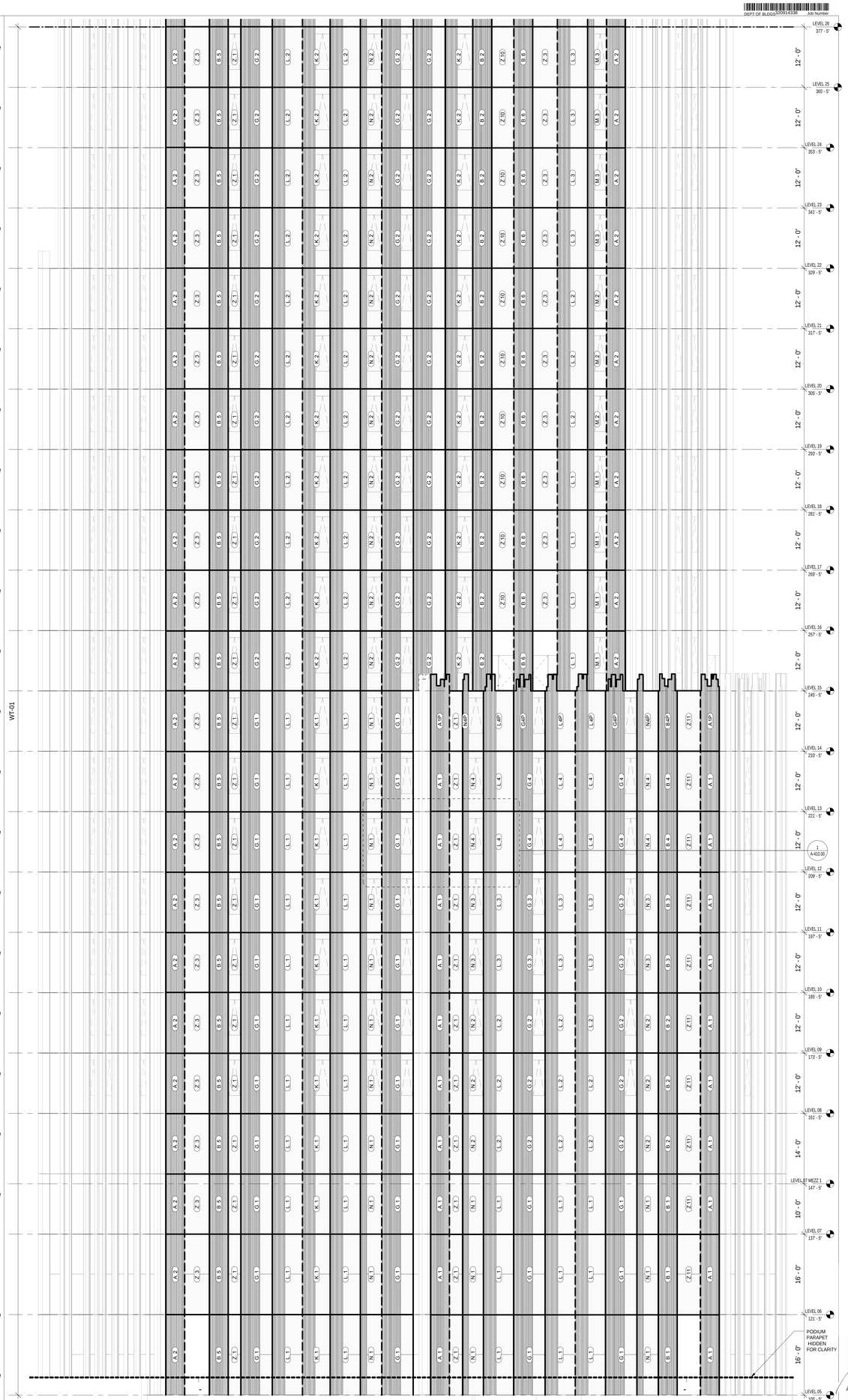
REGISTERED ARCHITECT DAVID M. PAPPALARDO 026905 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-303.00

DEPT OF BLDGS 320914338 Job Number
E3445272925 Scan Code



TOWER ELEVATION - NORTHEAST - 2 | 1/8" = 1'-0" | 2 / A-304.00



TOWER ELEVATION - NORTHEAST - 1 | 1/8" = 1'-0" | 1 / A-304.00

TOWER ELEVATION - LEGEND

- OPAQUE AREA
- GLAZING AREA
- PANEL JOINT W/ BMU TRACK
- PANEL JOINT

PANEL TAGS

C.2 — PANEL TYPE; PROFILE MIX ZONE / WIDTH DESIGNATION

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
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tel 212.530.9300

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WSP CANTOR SEINUK
225 WEST 45TH STREET
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tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
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tel 917.661.7800

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GACHOT
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NEW YORK, NY 10001
tel 212.674.6500

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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
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HACKENSACK, NJ 07601
tel 201.820.2802

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7000

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380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
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NEW YORK, NY 10005
tel 212.334.2325

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TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.495.4290

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NEW YORK, NY 10007
tel 212.233.6344

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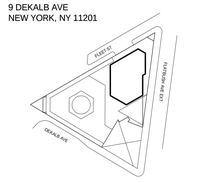
9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

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07/01/16 FACADE BID PACKAGE

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

TOWER ELEVATIONS - NORTHEAST - A

SEAL & SIGNATURE

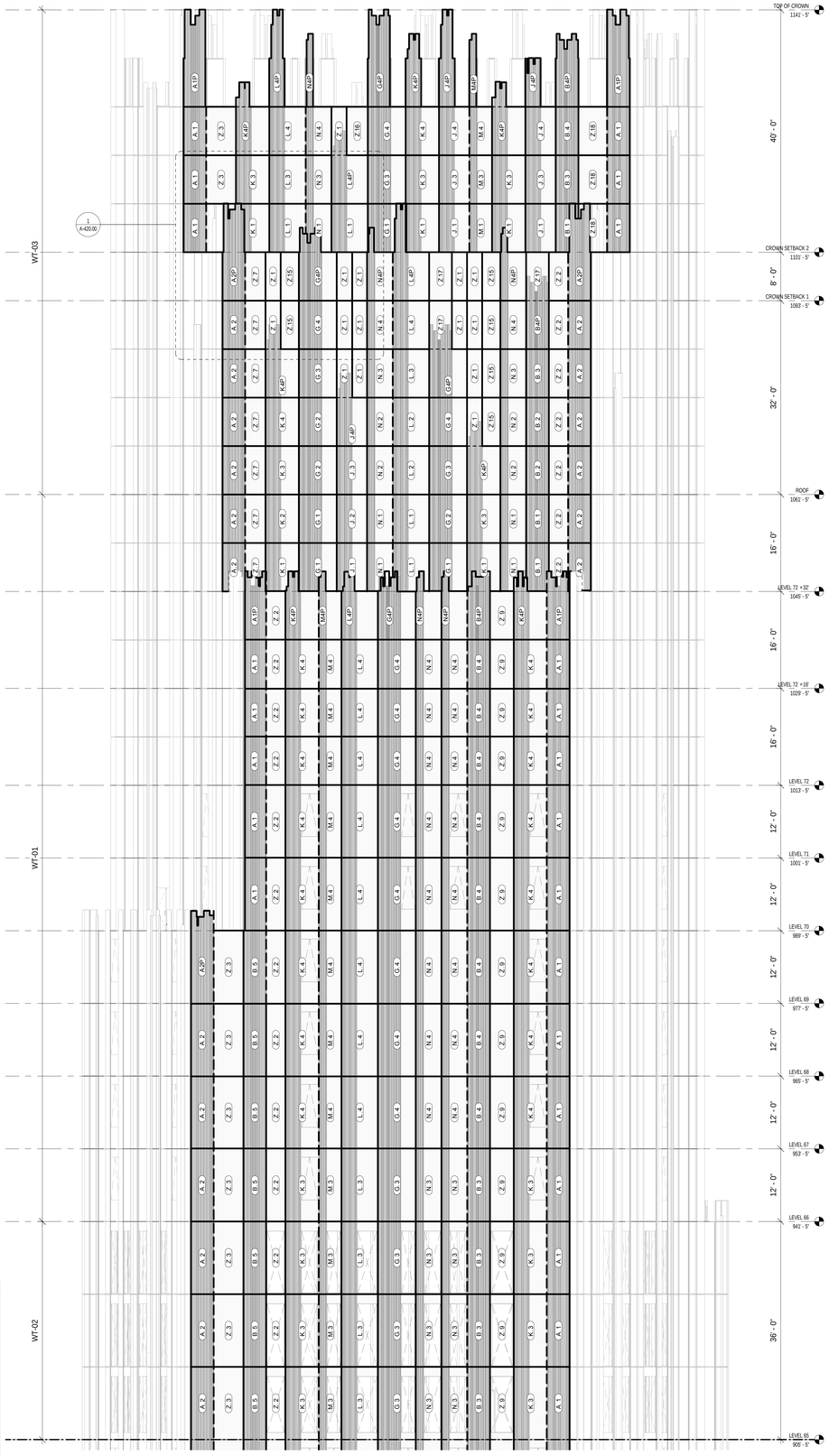
REGISTERED ARCHITECT OMER L. PADILLA 029009 STATE OF NEW YORK

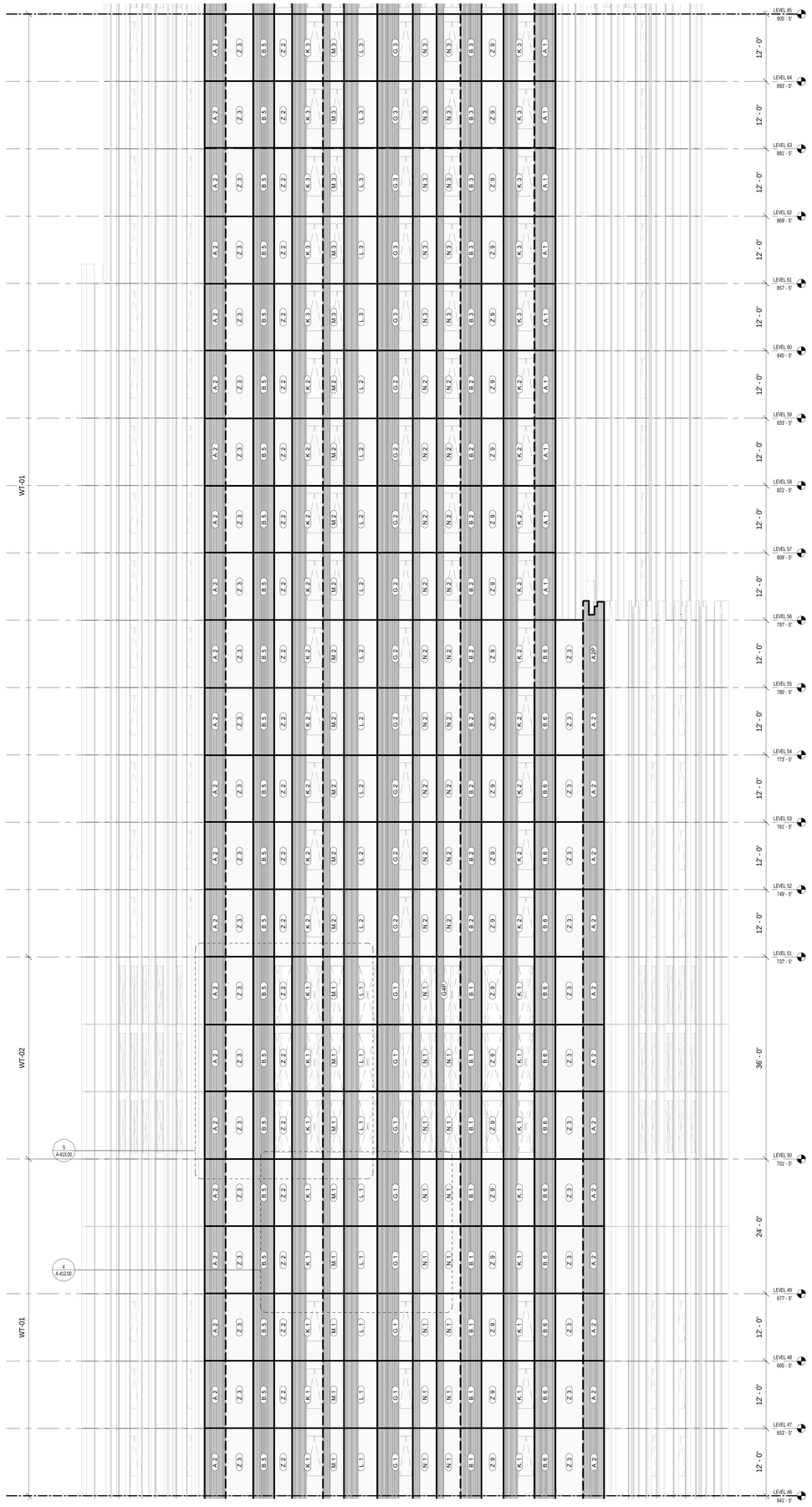
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

A-304.00

DEPT OF BLDGS 320914338 Job Number
B3005999002 Scan Code





TOWER ELEVATION - LEGEND

- OPAQUE AREA
- GLAZING AREA
- PANEL JOINT W/ BMU TRACK
- PANEL JOINT

PANEL TAGS

PANEL TYPE
PROFILE MIX ZONE / WIDTH DESIGNATION
C.2

TOWER ELEVATION - NORTHEAST - 4 | 1/8" = 1'-0" | 2 / A-305.00

TOWER ELEVATION - NORTHEAST - 3 | 1/8" = 1'-0" | 1 / A-305.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
534 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

BMU ENGINEER
ENTEK ENGINNERING
144 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

BUILDING ENERGY
VIDARIS
260 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

POOL
TRACE POOL DESIGN
310 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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9 DEKALB AVE
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SITE DIAGRAM

07/15/16	DOB FILING SET
07/01/16	FACADE BID PACKAGE

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DRAWING TITLE

TOWER ELEVATIONS - NORTHEAST - B

SEAL & SIGNATURE

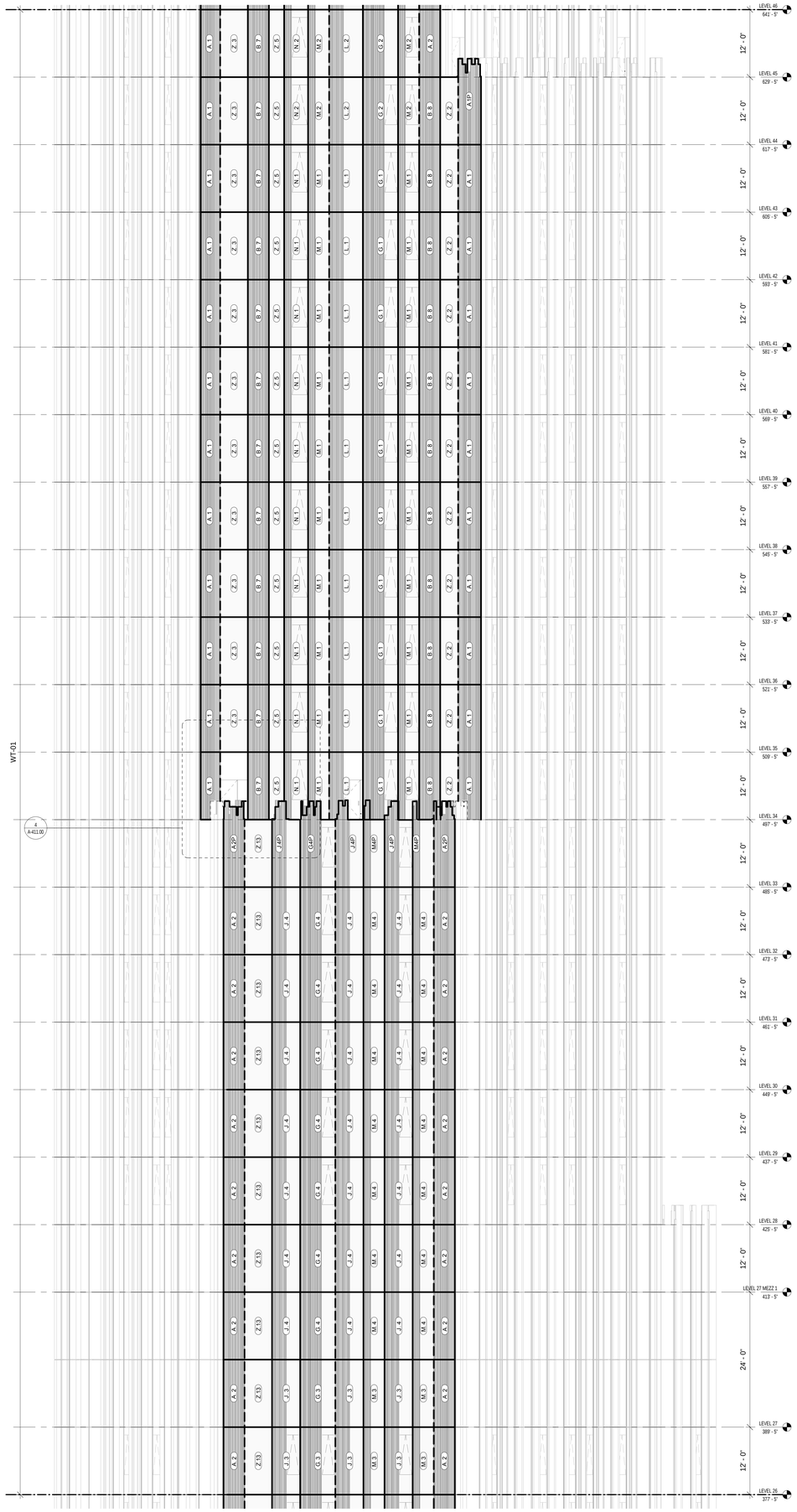
REGISTERED ARCHITECT JOSEPH A. PASQUINELLI 032226 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

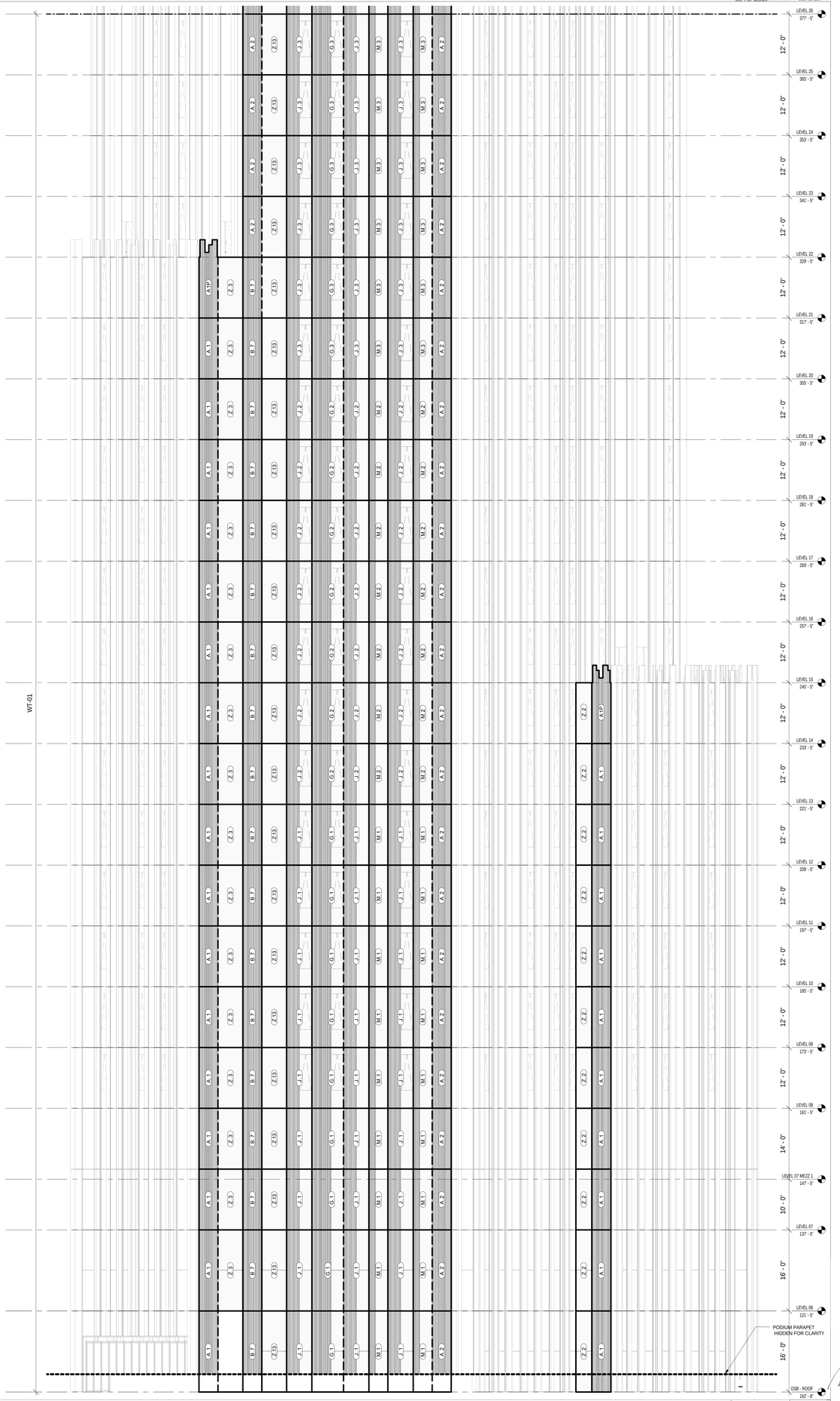
DRAWING NUMBER

A-305.00

DEPT OF BLDGS 320914338 Job Number
E303337243 Scan Code



TOWER ELEVATION - SOUTHEAST - 2 | 1/8" = 1'-0" | 2 / A-306.00



TOWER ELEVATION - SOUTHEAST - 1 | 1/8" = 1'-0" | 1 / A-306.00

TOWER ELEVATION - LEGEND

- OPAQUE AREA
- GLAZING AREA
- PANEL JOINT W/ BMU TRACK
- PANEL JOINT

PANEL TAGS

C.2 — PANEL TYPE; PROFILE MIX ZONE / WIDTH DESIGNATION

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 17TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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AKRF
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NEW YORK, NY 10016
tel 646.388.9828

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THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
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NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-0540

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NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
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HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7300

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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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NEW YORK, NY 10005
tel 212.334.2025

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WHITE PLAINS, NY 10604
tel 914.495.4290

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CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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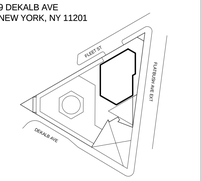
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET
07/01/16 FACADE BID PACKAGE

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

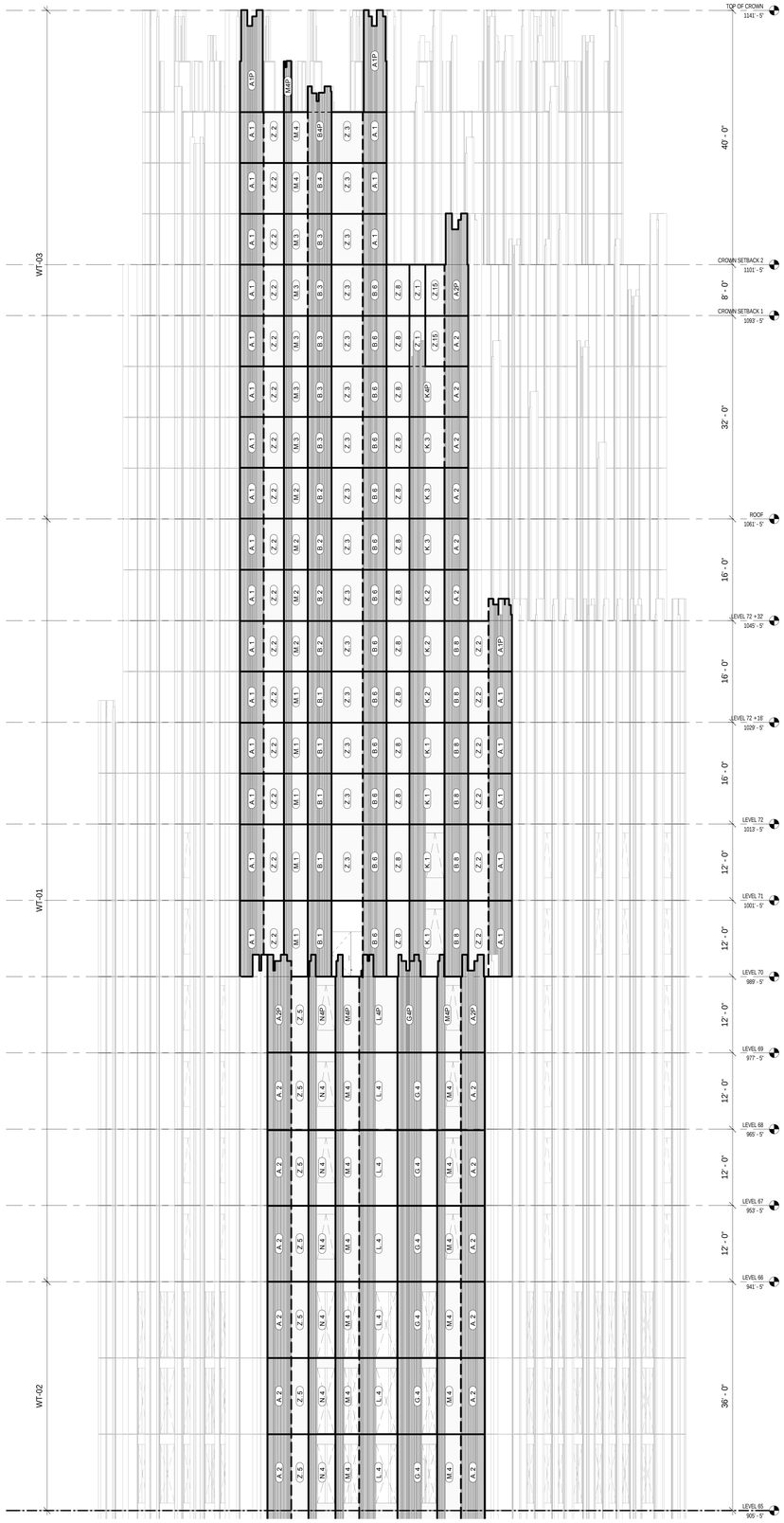
TOWER ELEVATIONS - SOUTHEAST - A

SEAL & SIGNATURE

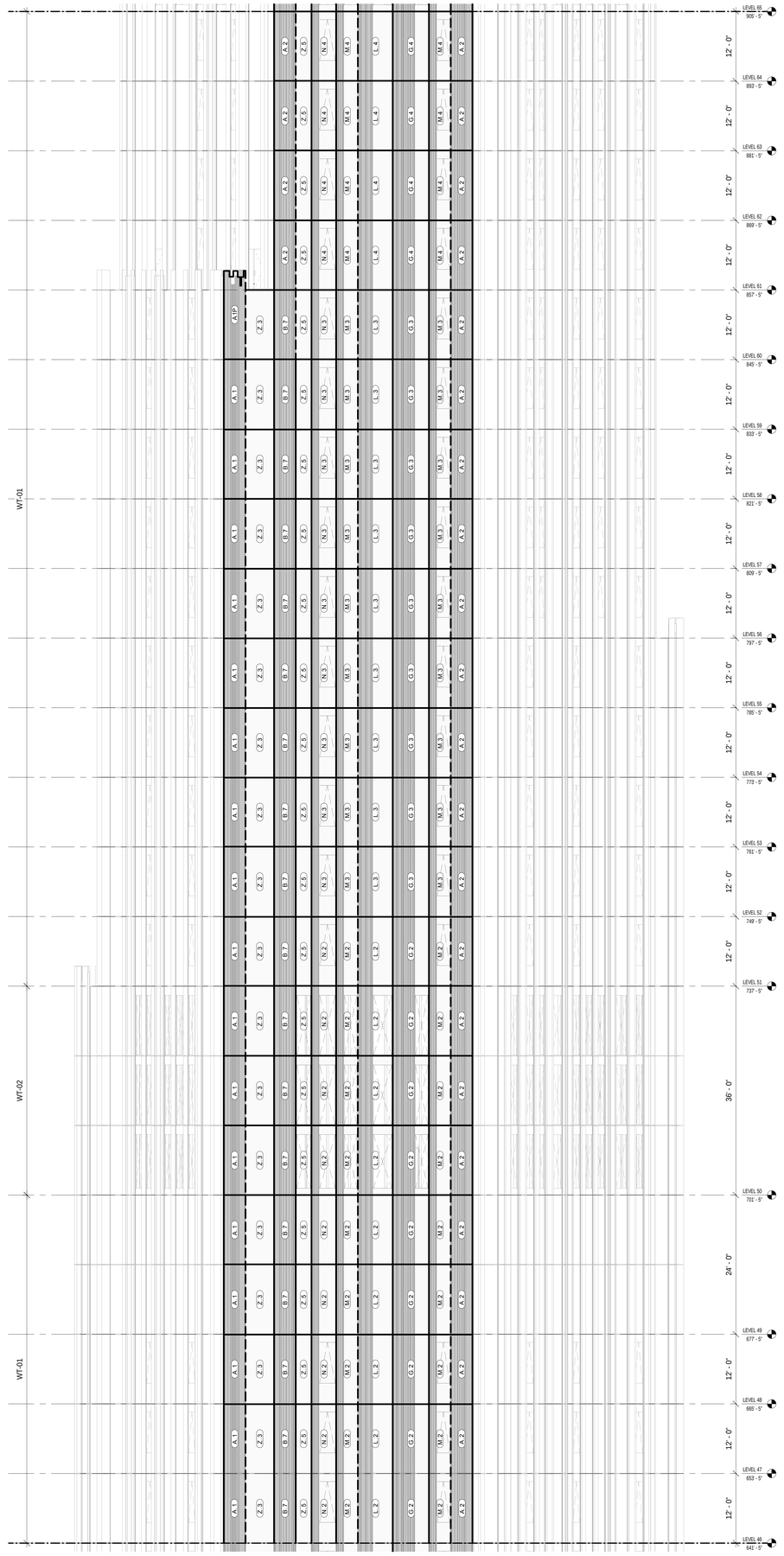
REGISTERED ARCHITECT ROBERT A. PASQUARELLI 032258 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338
DRAWING NUMBER	A-306.00

DEPT OF BLDGS 320914338 Job Number
B1 320914338 01 Scan Code



TOWER ELEVATION - SOUTHEAST - 4 | 1/8" = 1'-0" | 2 / A-307.00



TOWER ELEVATION - SOUTHEAST - 3 | 1/8" = 1'-0" | 1 / A-307.00

TOWER ELEVATION - LEGEND

- OPAQUE AREA
- GLAZING AREA
- PANEL JOINT W/ BMU TRACK
- PANEL JOINT

PANEL TAGS

C.2 — PANEL TYPE; PROFILE MIX ZONE / WIDTH DESIGNATION

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 39TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.759.6540

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BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

LANDSCAPE TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS GROUP

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

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DRAWING TITLE

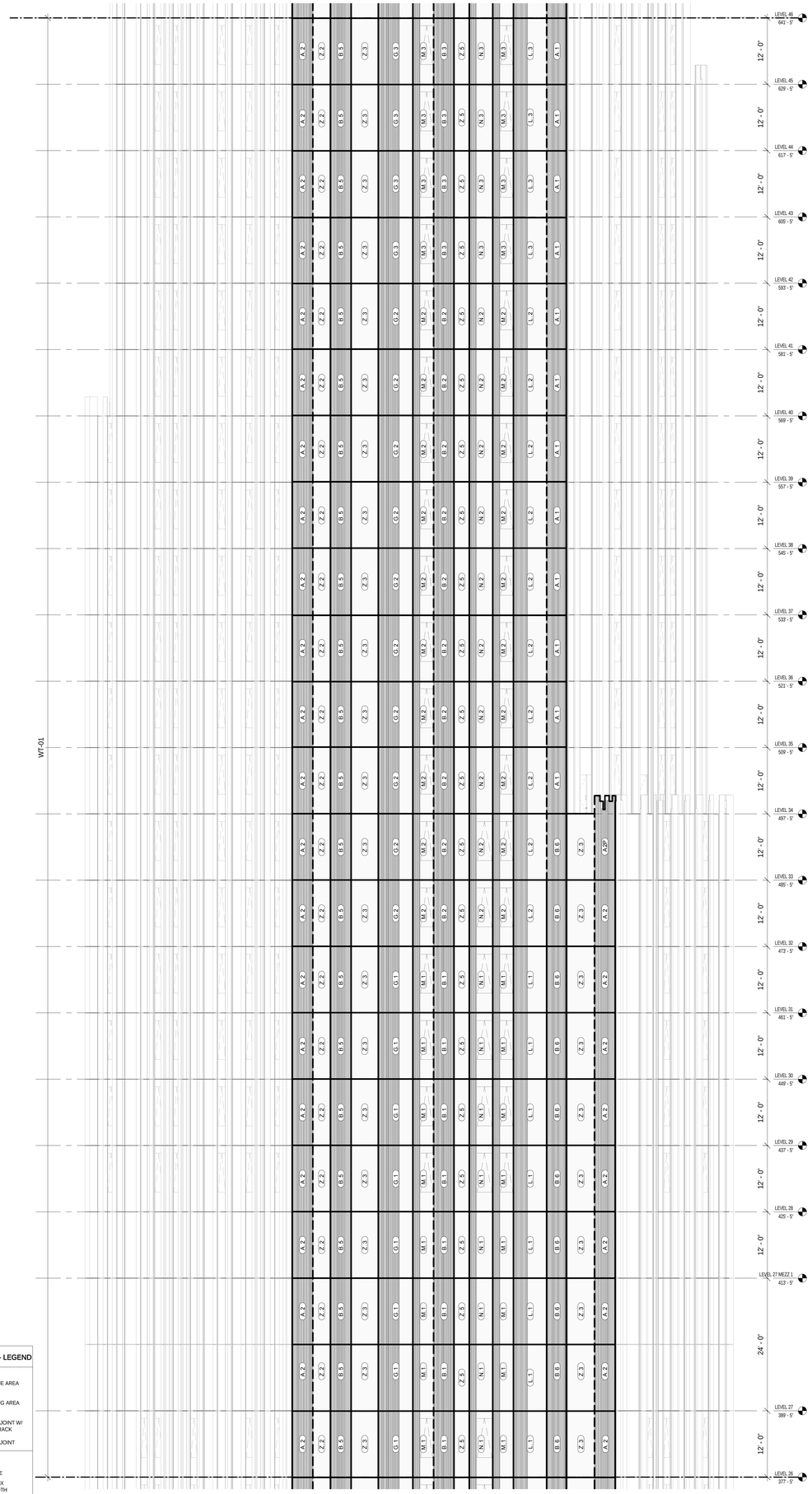
TOWER ELEVATIONS - SOUTHEAST - B

SEAL & SIGNATURE

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER
A-307.00

DEPT OF BLDGS 320914338 Job Number
E 3320321955 Scan Code



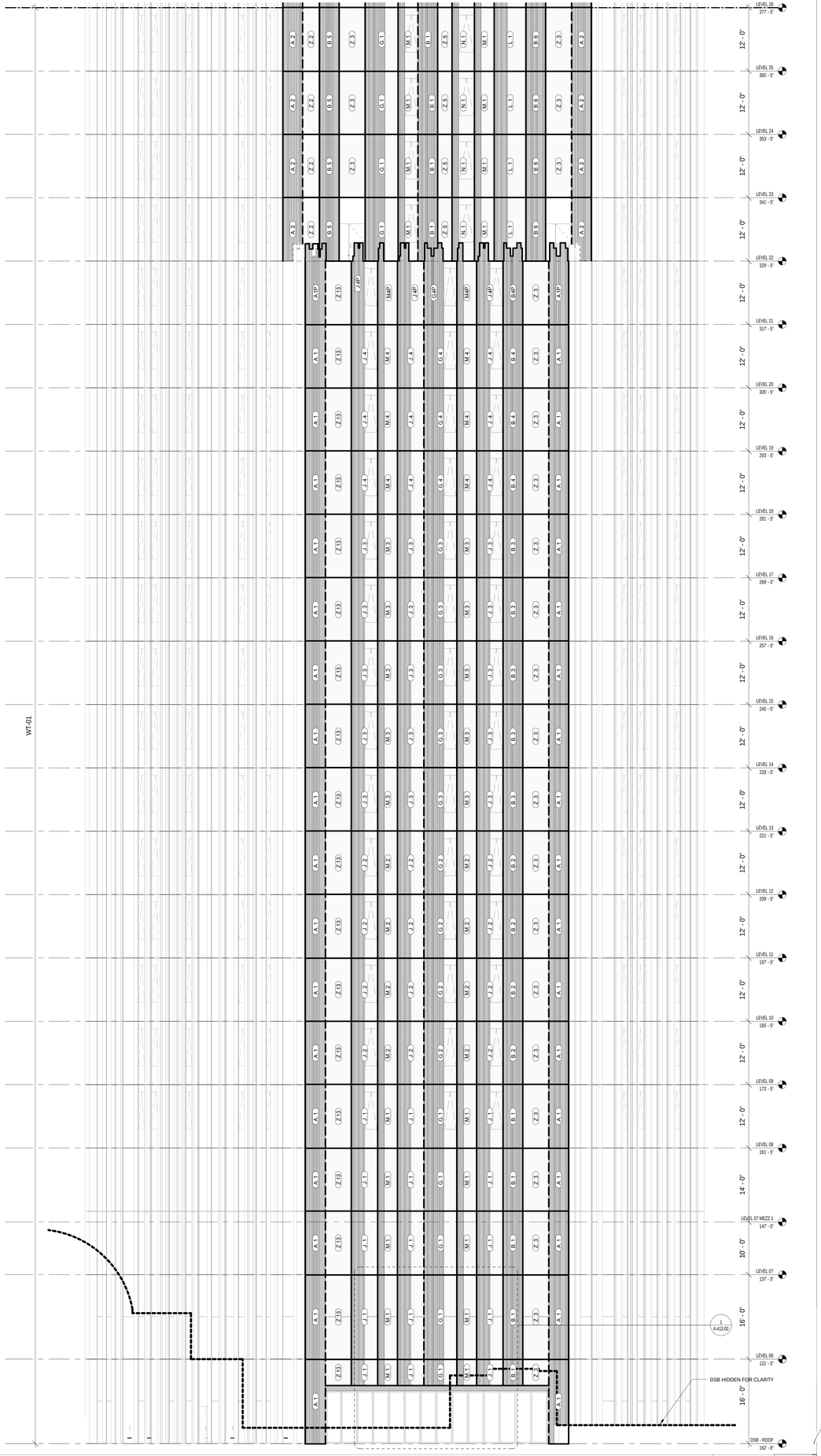
TOWER ELEVATION - LEGEND

- OPAQUE AREA
- GLAZING AREA
- PANEL JOINT W/ BMU TRACK
- PANEL JOINT

PANEL TAGS

PANEL TYPE
PROFILE MIX ZONE / WIDTH DESIGNATION
C.2

TOWER ELEVATION - SOUTH - 2 | 1/8" = 1'-0" | 2 / A-308.00



TOWER ELEVATION - SOUTH - 1 | 1/8" = 1'-0" | 1 / A-308.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS BAUM & BOLLES
MEP ENGINEER
JAROS, BAUM & BOLLES
90 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK
STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers
GEOTECHNICAL ENGINEER
MRCE
233 WEST 39TH STREET 6TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

AKRF
CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti
FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT
INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA
HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.755-6540

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NEW YORK, NY 10001
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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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ENTEX ENGINNERING
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HACKENSACK, NJ 07601
tel 201.820.2802

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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POOL
TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.495.4290

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METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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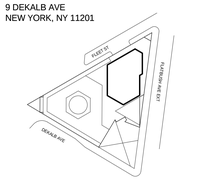
NEW YORK, NY 11201



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NO.	DATE	REVISION

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DRAWING TITLE

TOWER ELEVATIONS - SOUTH - A

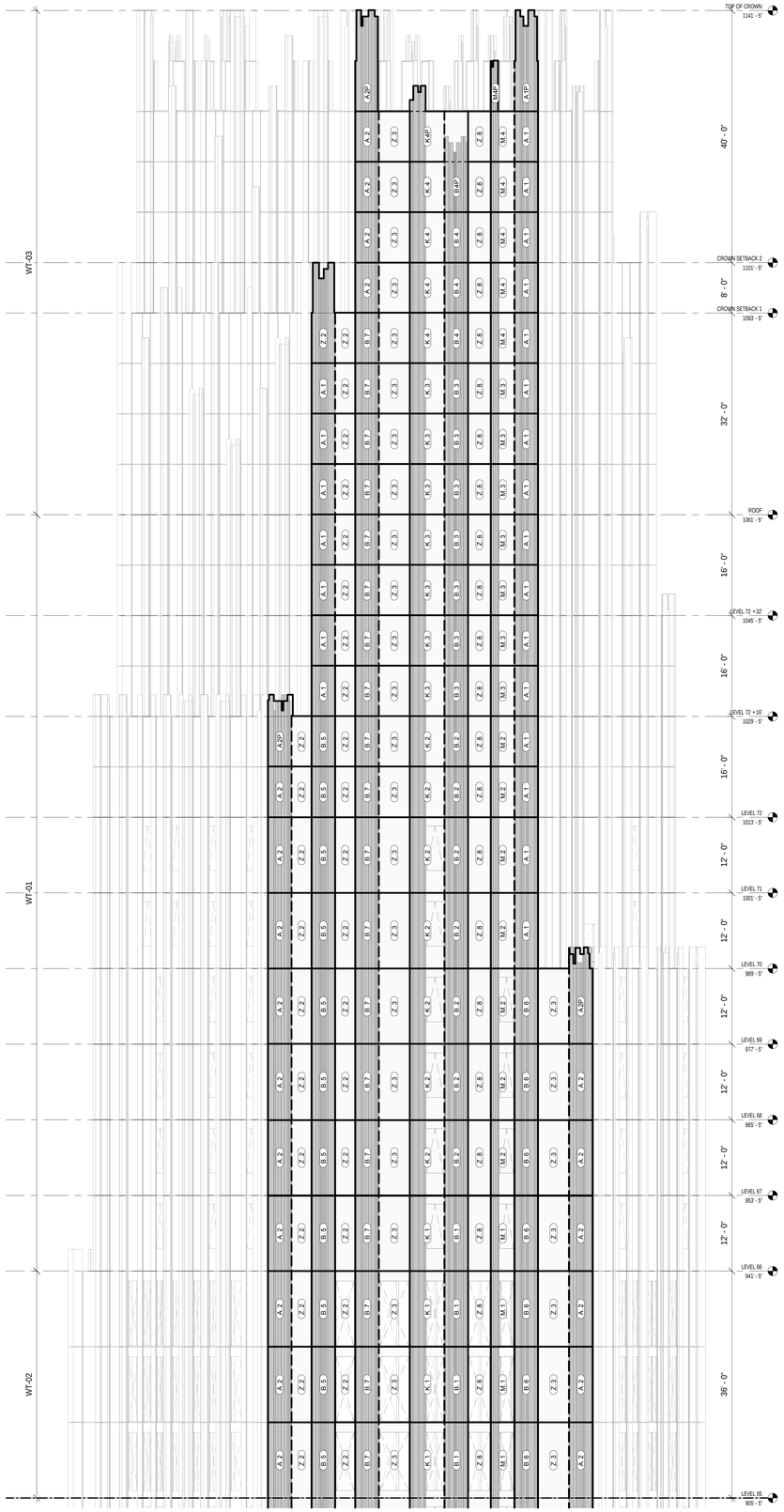
SEAL & SIGNATURE

REGISTERED ARCHITECT JESSICA A. PASQUARELLI 026909 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-308.00

DEPT OF BLDGS 320014338 Job Number

E1642800581 Scan Code



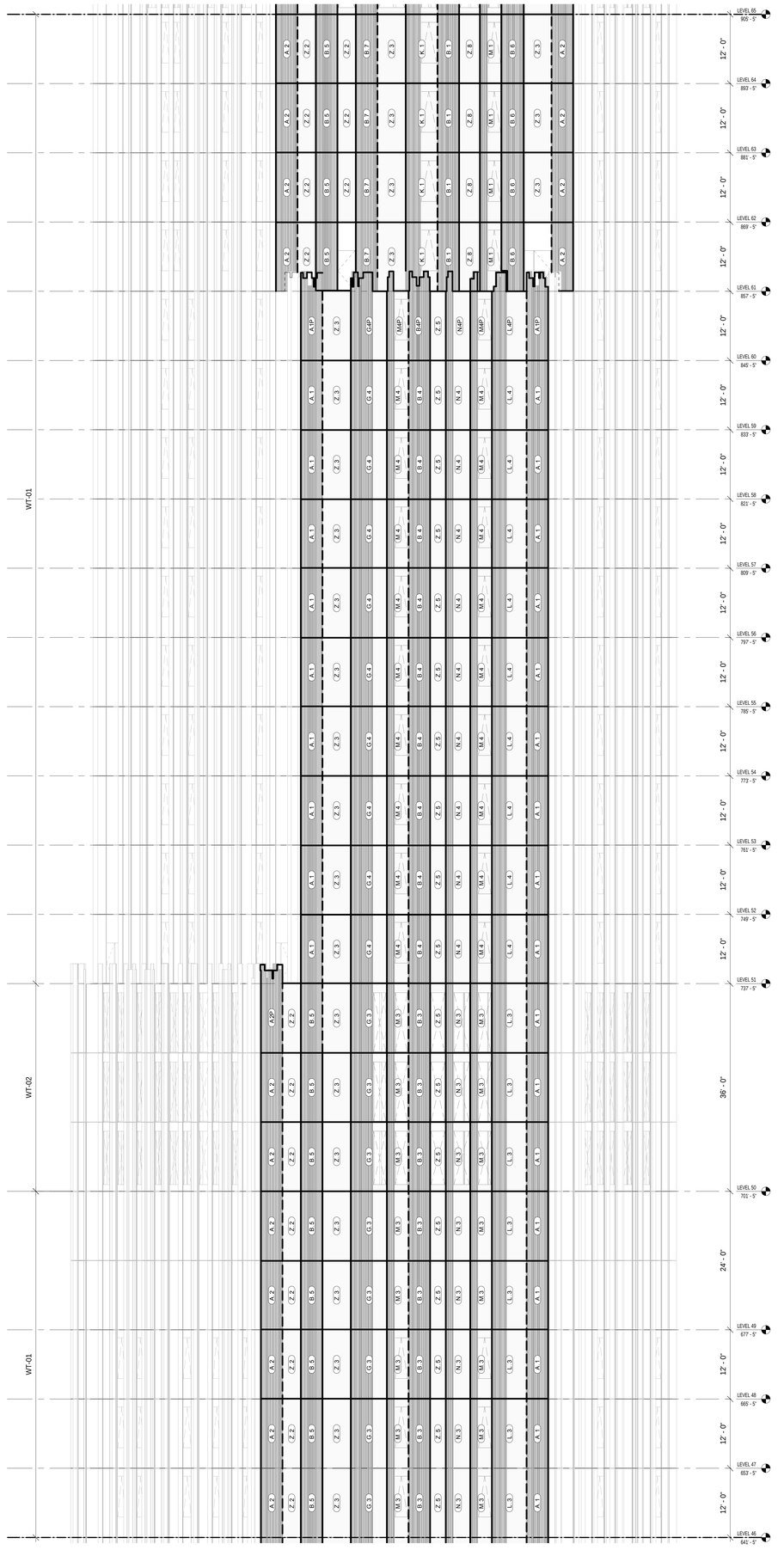
TOWER ELEVATION - LEGEND

- OPAQUE AREA
- GLAZING AREA
- PANEL JOINT W/ BMU TRACK
- PANEL JOINT

PANEL TAGS

PANEL TYPE
PROFILE MIX ZONE / WIDTH DESIGNATION
C.2

TOWER ELEVATION - SOUTH - 4 | 1/8" = 1'-0" | 2 | A-309.00



TOWER ELEVATION - SOUTH - 3 | 1/8" = 1'-0" | 1 | A-309.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
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EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.755-6560

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BOLD
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NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2325

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POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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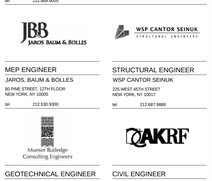
9 DEKALB AVE
NEW YORK, NY 11201



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07/01/16	FACADE BID PACKAGE

NO.	DATE	REVISION

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DRAWING TITLE

TOWER ELEVATIONS - SOUTH - B

SEAL & SIGNATURE

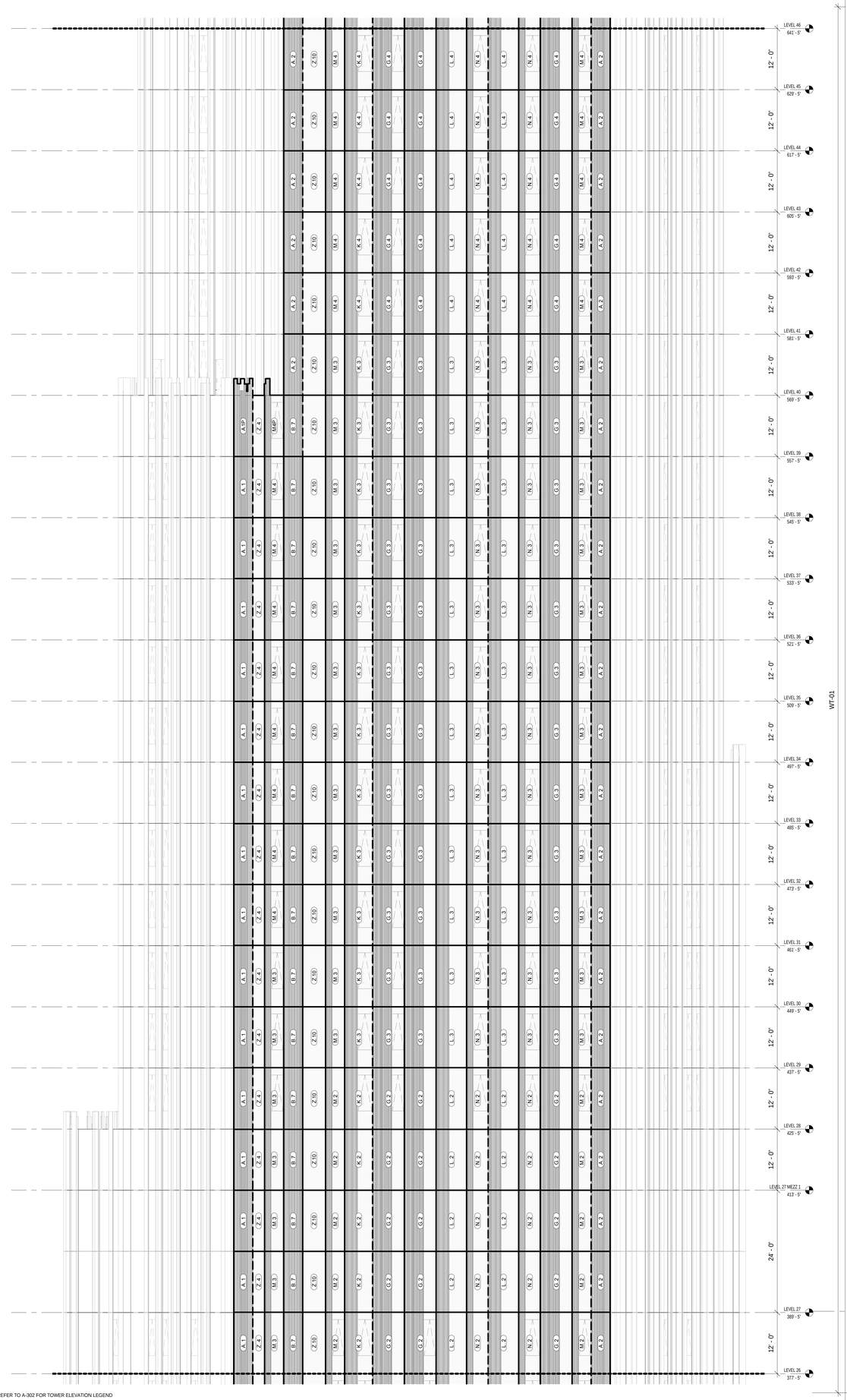
REGISTERED ARCHITECT CHRISTOPHER T. PASQUARELLI 029209 STATE OF NEW YORK

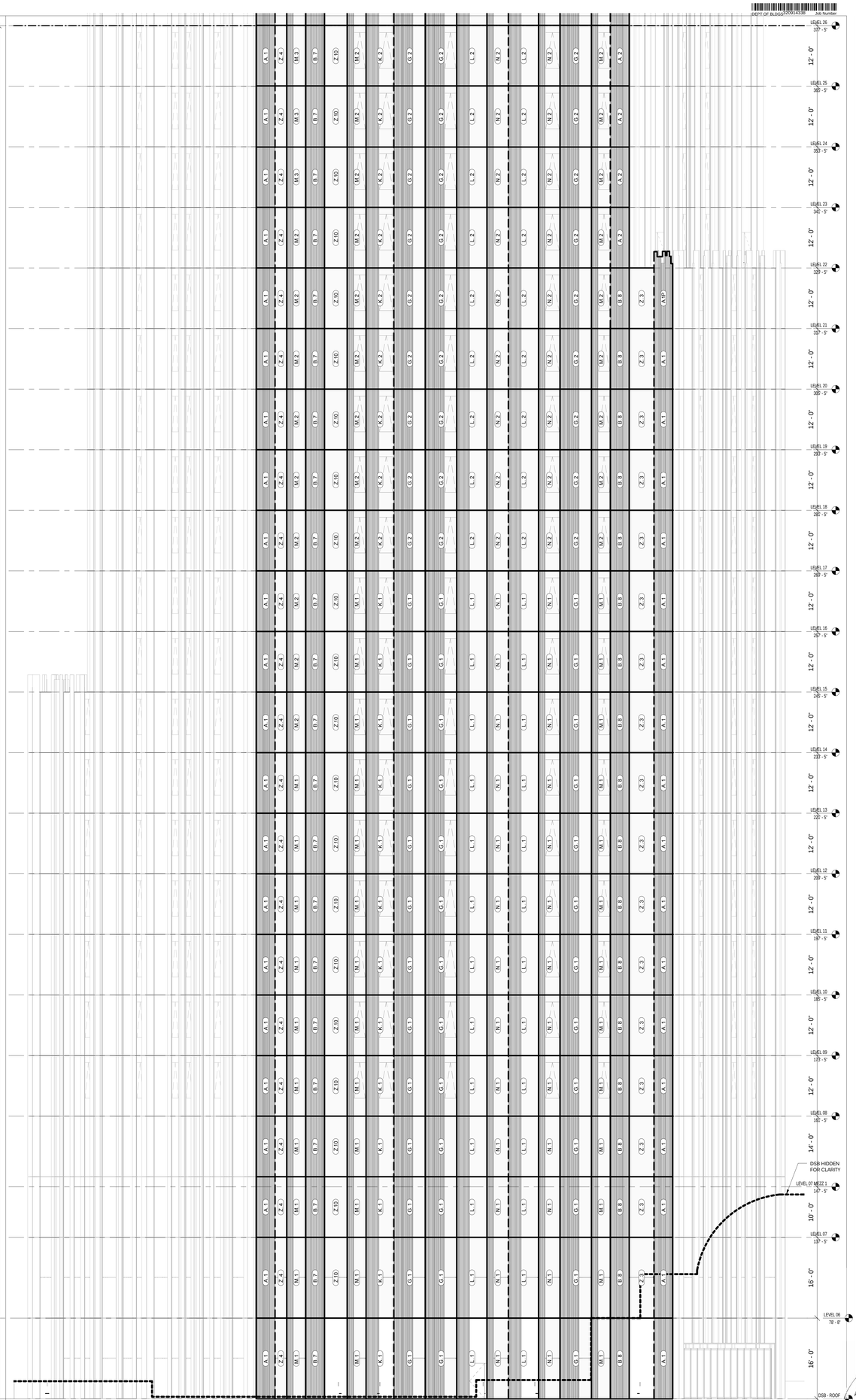
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

A-309.00

DEPT OF BUILDINGS 320914338 Job Number
E 5415915741 Scan Code





* REFER TO A-302 FOR TOWER ELEVATION LEGEND

TOWER ELEVATION - SOUTHWEST - 2 | 1/8" = 1'-0" | 2 / A-310.00

TOWER ELEVATION - SOUTHWEST - 1 | 1/8" = 1'-0" | 1 / A-310.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 39TH STREET 6TH FLOOR
NEW YORK, NY 10012
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
154 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST, FLOOR 12A
NEW YORK, NY 10018
tel 212.755-6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
106 JAMES STREET
HACKENSACK, NJ 07601
tel 201.820.2882

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BURO HAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lotrecco TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

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NEW YORK, NY 11201

SITE DIAGRAM

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07/01/16	FACADE BID PACKAGE

NO.	DATE	REVISION

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DRAWING TITLE

TOWER ELEVATIONS - SOUTHWEST - A

SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASQUARELLI 026292 STATE OF NEW YORK

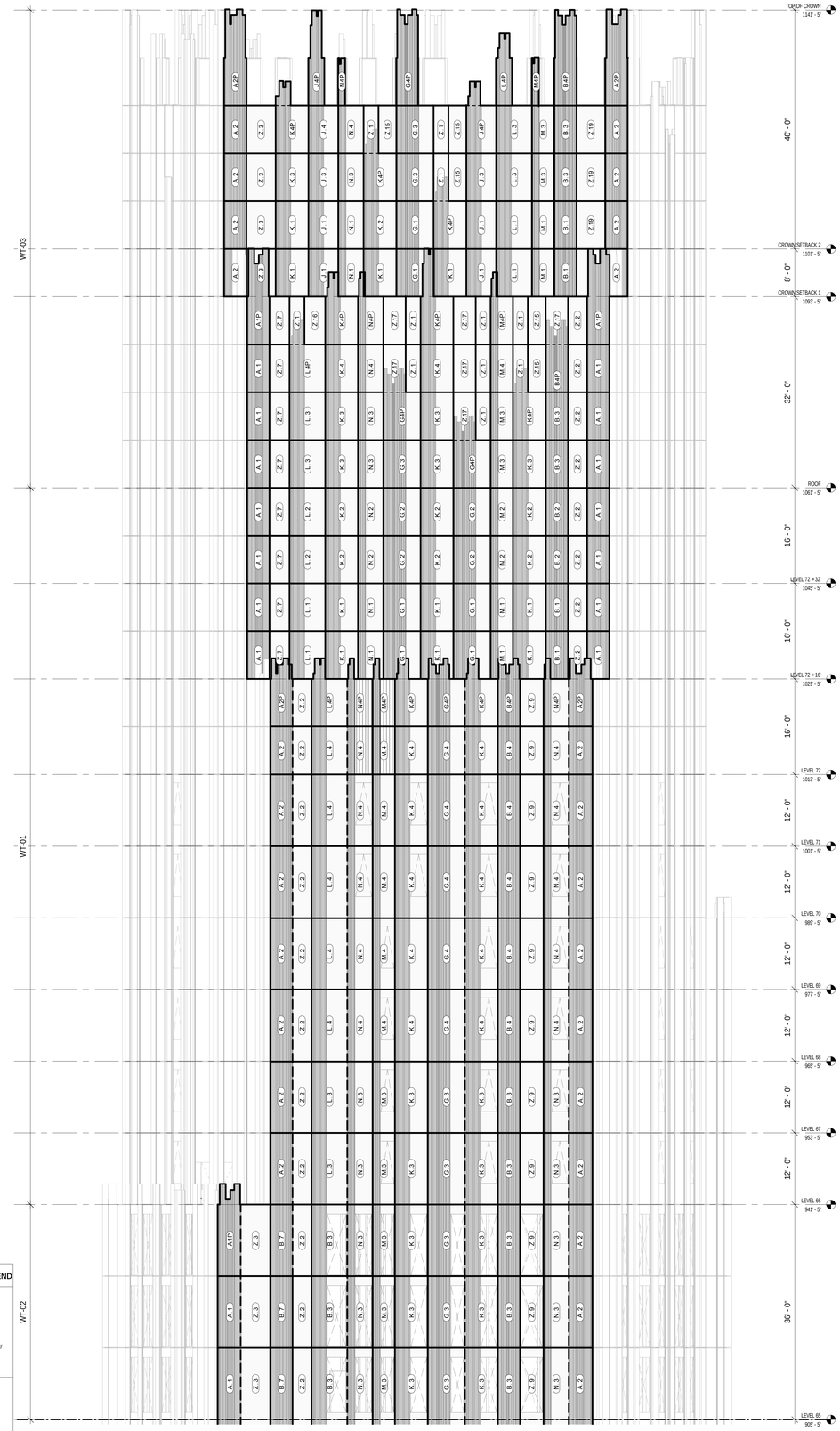
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

A-310.00

DEPT OF BLDGS 320914338 Job Number

E 320143338X Scan Code



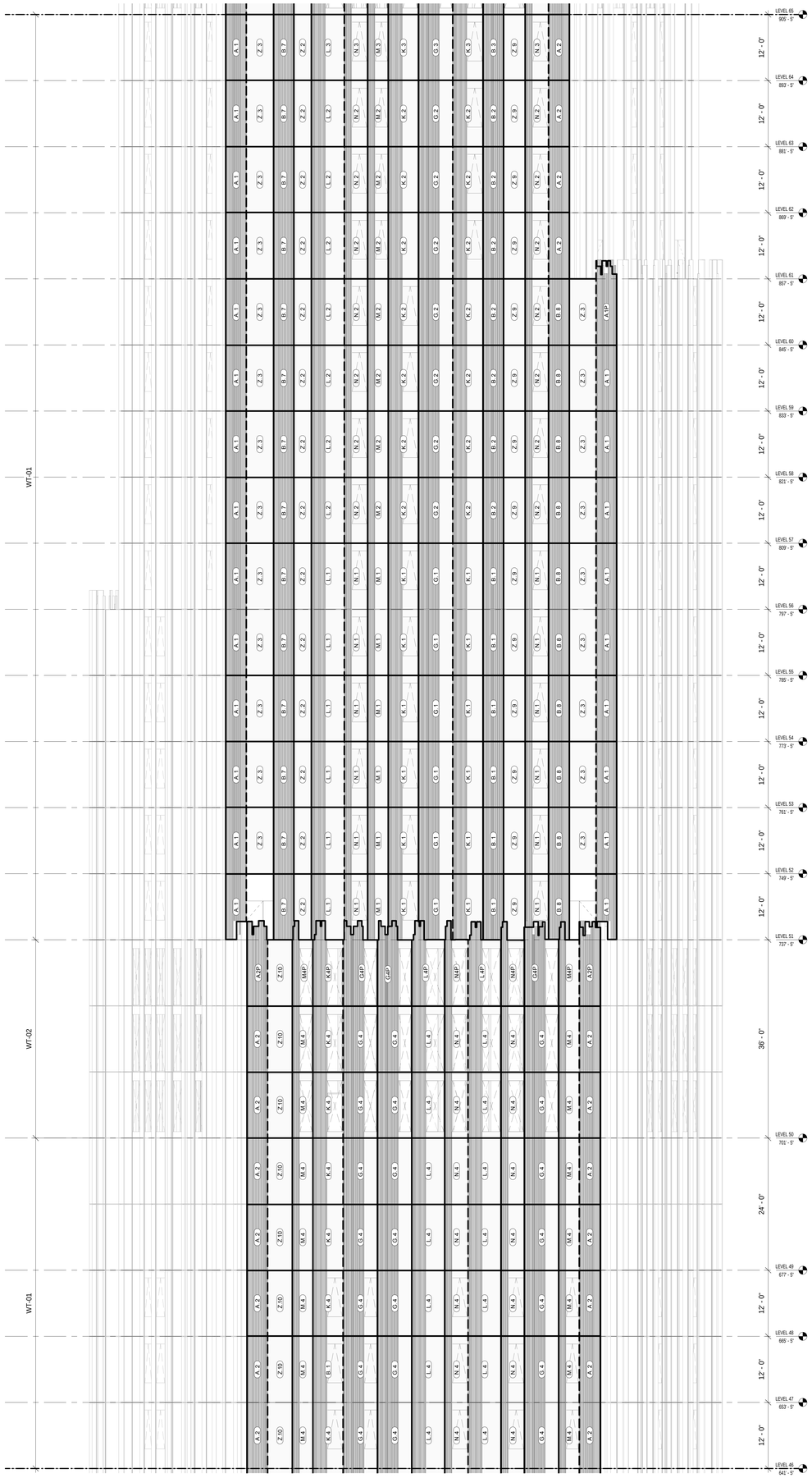
TOWER ELEVATION - LEGEND

- OPAQUE AREA
- GLAZING AREA
- PANEL JOINT W/ BMU TRACK
- PANEL JOINT

PANEL TAGS

PANEL TYPE
PROFILE MIX ZONE / WIDTH DESIGNATION
C.2

TOWER ELEVATION - SOUTHWEST - 4 | 1/8" = 1'-0" | 2 A-311.00



TOWER ELEVATION - SOUTHWEST - 3 | 1/8" = 1'-0" | 1 A-311.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
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232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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NEW YORK, NY 10005
tel 212.530.9300

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WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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MRCE
233 WEST 39TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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AKRF
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NEW YORK, NY 10016
tel 646.388.9828

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EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
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NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
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39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.759.6560

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NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.495.4290

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NEW YORK, NY 10007
tel 212.233.6344

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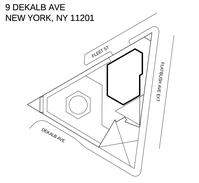
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET
07/01/16 FACADE BID PACKAGE

DATE ISSUE | NO. DATE REVISION

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DRAWING TITLE

TOWER ELEVATIONS - SOUTHWEST - B

SEAL & SIGNATURE

REGISTERED ARCHITECT GREGORY A. PASQUARELLI STATE OF NEW YORK

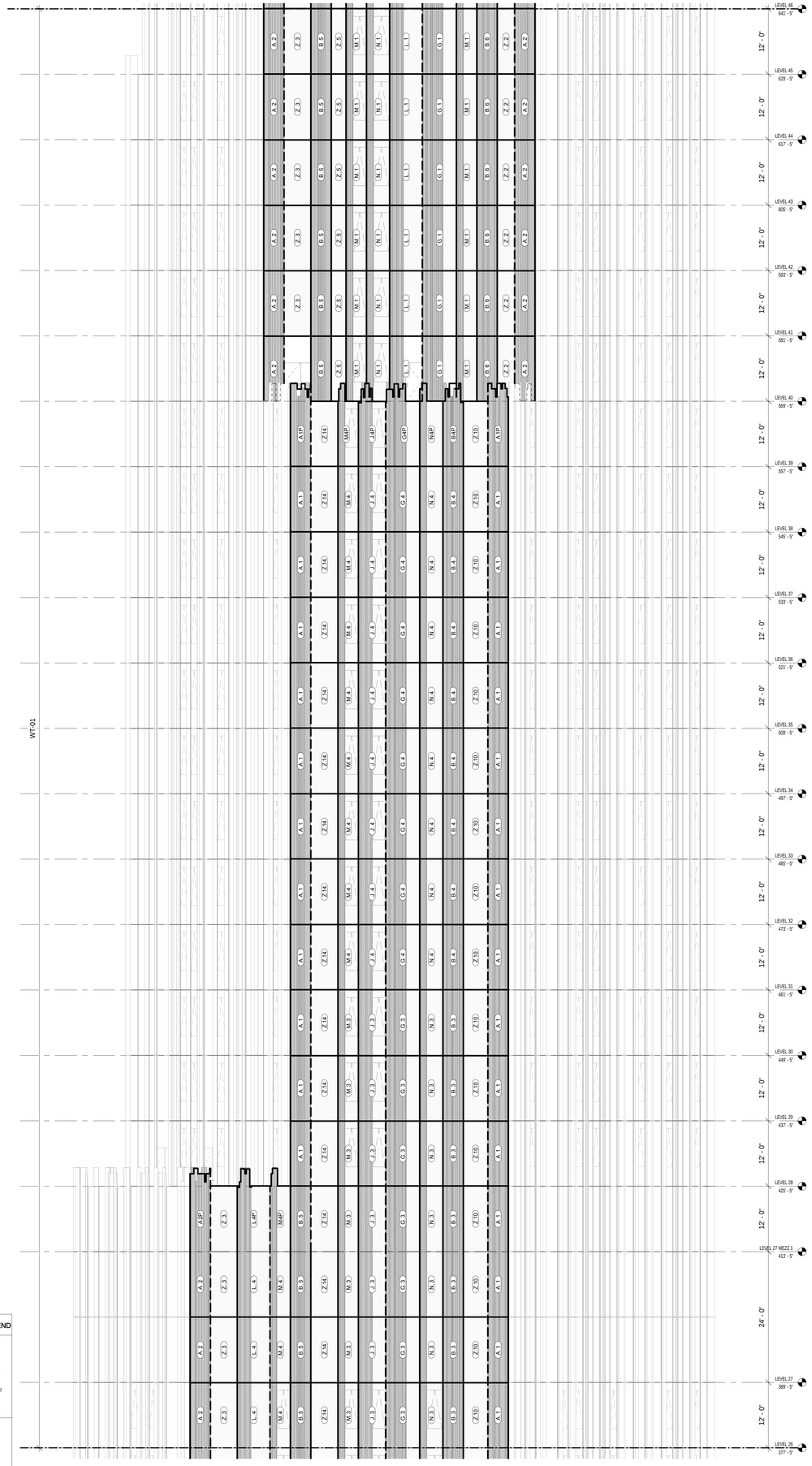
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

DRAWING NUMBER

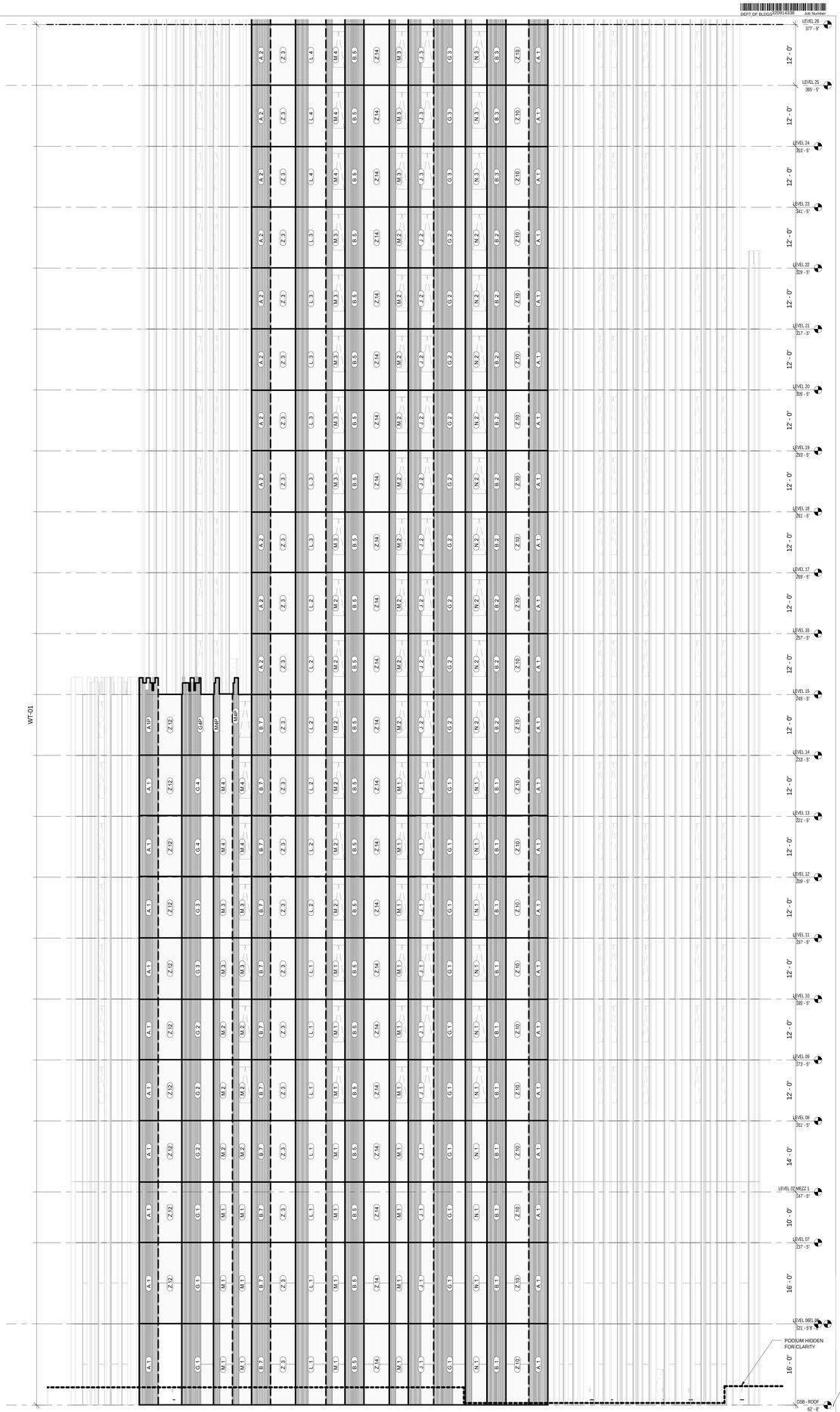
A-311.00

DEPT OF BLDGS 320914338 Job Number

E-2482504409 Scan Code



TOWER ELEVATION - NORTHWEST - 2 | 1/8" = 1'-0" | 2 | A-312.00



TOWER ELEVATION - NORTHWEST - 1 | 1/8" = 1'-0" | 1 | A-312.00

TOWER ELEVATION - LEGEND

- OPAQUE AREA
- GLAZING AREA
- PANEL JOINT W/ BMU TRACK
- PANEL JOINT

PANEL TAGS

C.2 — PANEL TYPE; PROFILE MIX ZONE / WIDTH DESIGNATION

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
534 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.755-0540

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237 WEST 35TH STREET
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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2925

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WHITE PLAINS, NY 10604
tel 914.495.4290

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NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201

SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
07/01/16	FACADE BID PACKAGE

NO.	DATE	REVISION

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DRAWING TITLE

TOWER ELEVATIONS - NORTHWEST - A

SEAL & SIGNATURE

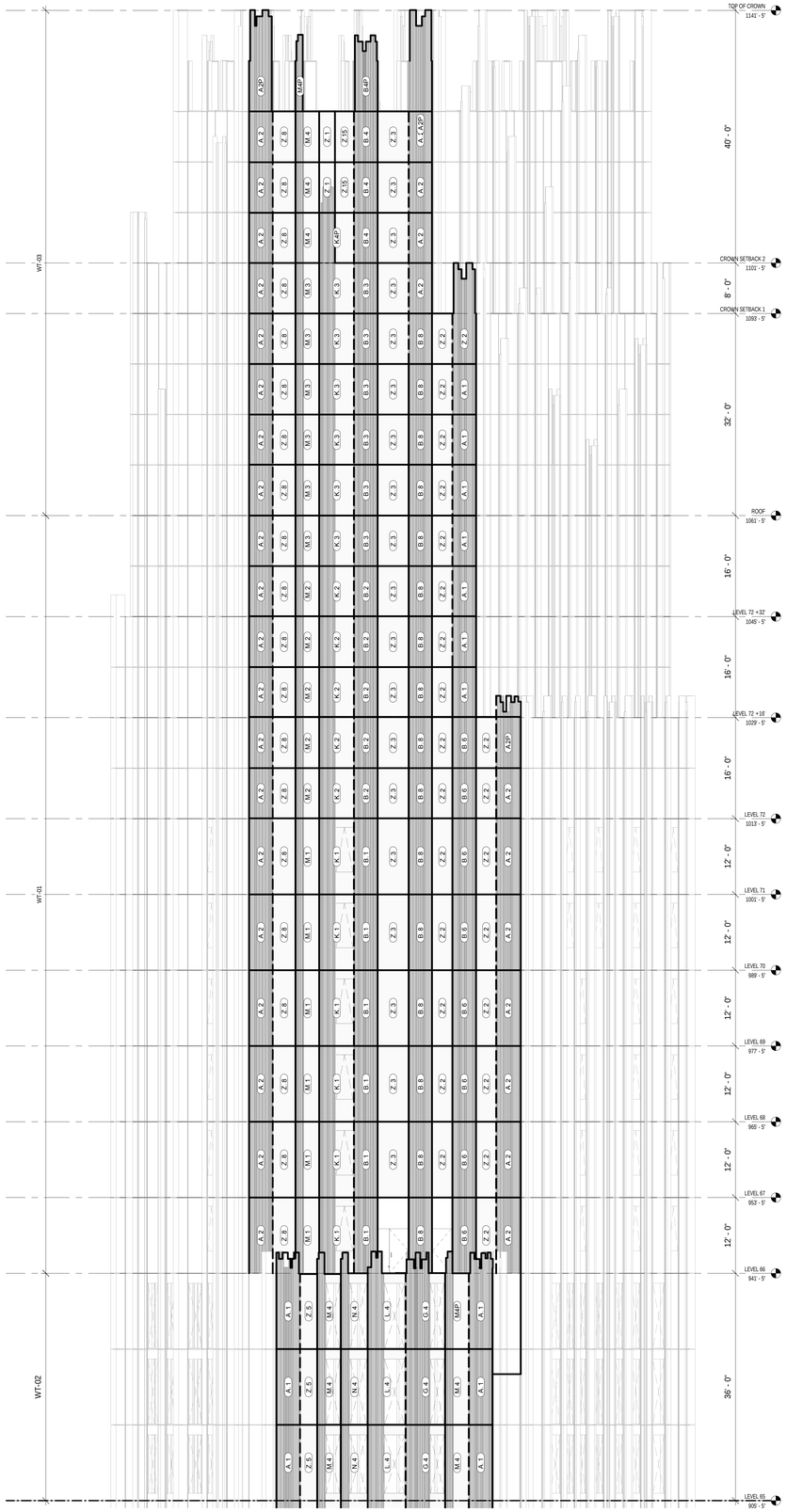
REGISTERED ARCHITECT JOSHUA PASSWORKS 029065 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

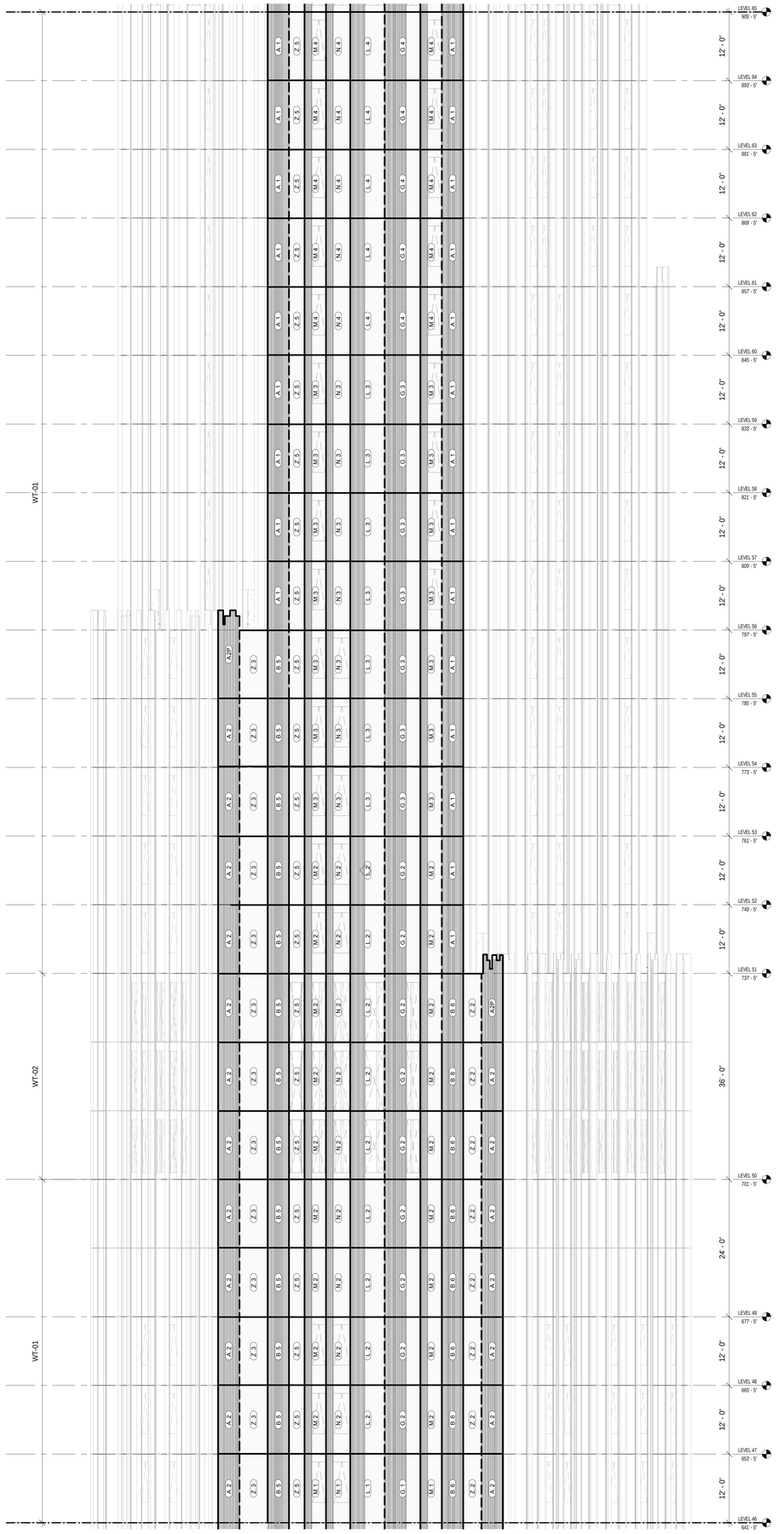
DRAWING NUMBER

A-312.00

DEPT OF BLDGS 320914338 Job Number
E346547045A Scan Code



TOWER ELEVATION - NORTHWEST - 4 | 1/8" = 1'-0" | 2 | A-313.00



TOWER ELEVATION - NORTHWEST - 3 | 1/8" = 1'-0" | 1 | A-313.00

TOWER ELEVATION - LEGEND

- OPAQUE AREA
- GLAZING AREA
- PANEL JOINT W/ BMU TRACK
- PANEL JOINT

PANEL TAGS

C.2 — C = PANEL TYPE; 2 = PROFILE MIX ZONE / WIDTH DESIGNATION

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
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NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
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EAST HANOVER, NJ 07936
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THORNTON TOMASETTI
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NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
154 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.759.6540

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tel 212.674.6500

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ACOUSTICAL ENGINEER
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NEW YORK, NY 10018
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ENTEK ENGINNERING
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NEW YORK, NY 10018
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VIDARIS
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NEW YORK, NY 10010
tel 212.689.5389

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100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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tel 914.495.4290

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NEW YORK, NY 10007
tel 212.233.6344

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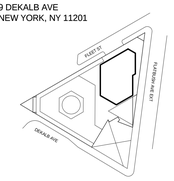
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
07/01/16	FACADE BID PACKAGE
02/05/16	100% SD REASSESSMENT

NO.	DATE	REVISION

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DRAWING TITLE

TOWER ELEVATIONS - NORTHWEST - B

SEAL & SIGNATURE

REGISTERED ARCHITECT JESSICA PASQUARELLI 026929 STATE OF NEW YORK

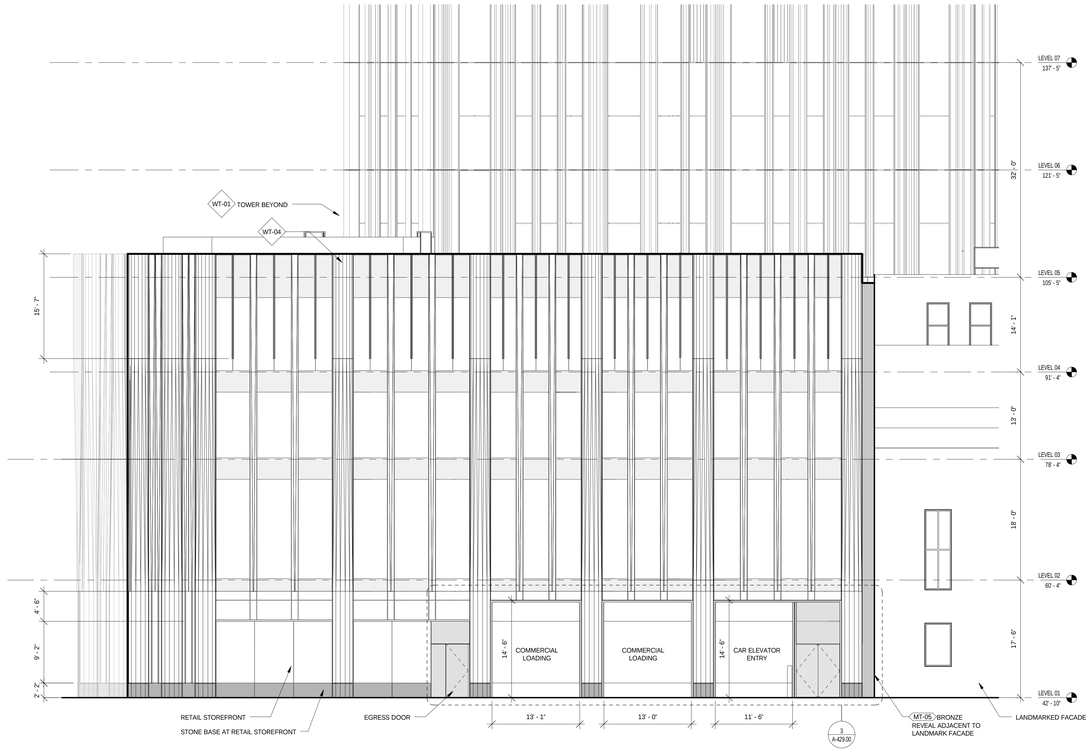
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

A-313.00

DEPT OF BLDGS 320014338 Job Number
E 5331740354 Scan Code

PODIUM ELEVATION - FLEET STREET AND FLATBUSH AVE EXT CORNER | 1/8" = 1'-0" | 3 / A-320.00



PODIUM ELEVATION - FLEET STREET - NORTH | 1/8" = 1'-0" | 2 / A-320.00

* NOTE:
PROJECT ELEVATIONS REFER TO NAVD 88 DATUM, SEE SITE SURVEY; Z-001.00

PODIUM ELEVATION - FLATBUSH AVE EXT | 1/8" = 1'-0" | 1 / A-320.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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AKRF
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NEW YORK, NY 10016
tel 646.388.9828

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VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti
FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT
INTERIORS
GACHOT
534 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10016
tel 212.759.6540

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NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINEERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7800

VIDARIS
BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lattanzi TRACE POOL DESIGN
POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS
CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

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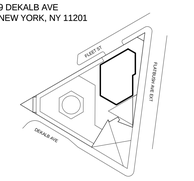

SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
07/01/16	FACADE BID PACKAGE			
02/05/16	100% SD REASSESSMENT			
05/09/15	DOB FILING SET			
3/13/15	100% SCHEMATIC DESIGN			

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DRAWING TITLE

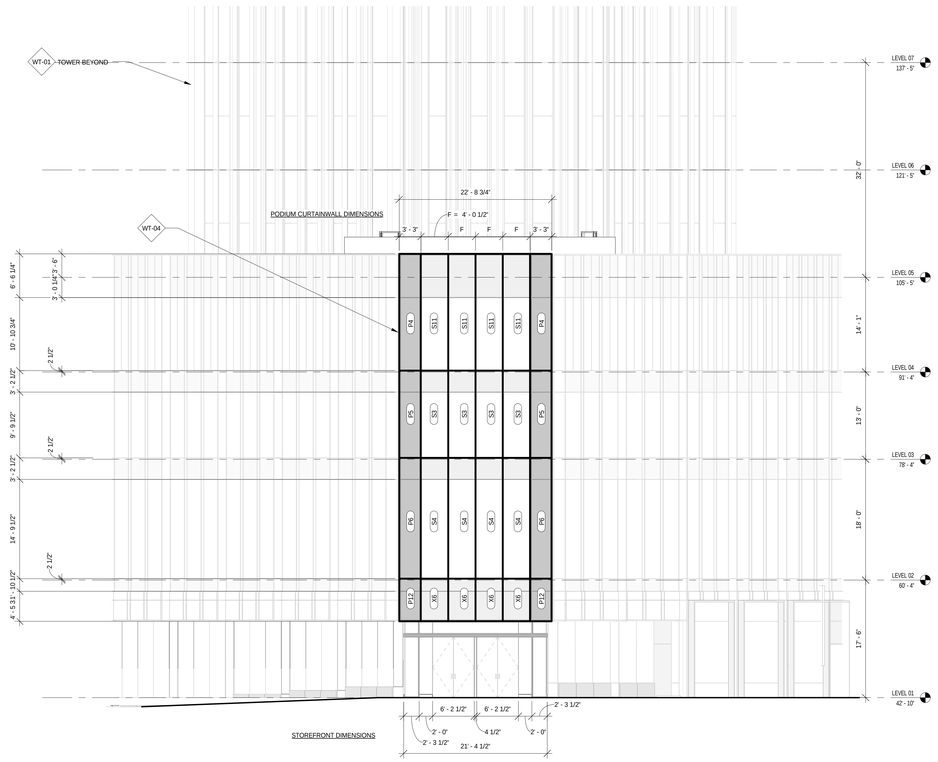
PODIUM ELEVATIONS

SEAL & SIGNATURE

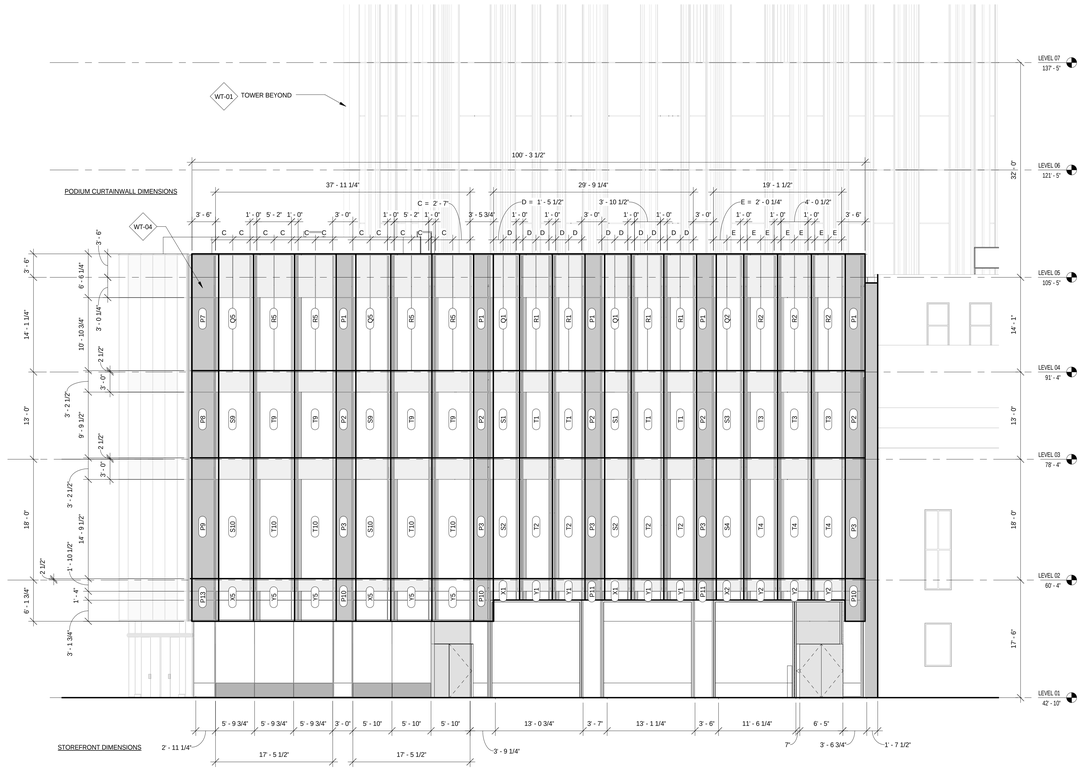
REGISTERED ARCHITECT JOSEPH A. PASQUARELLI 026529 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-320.00

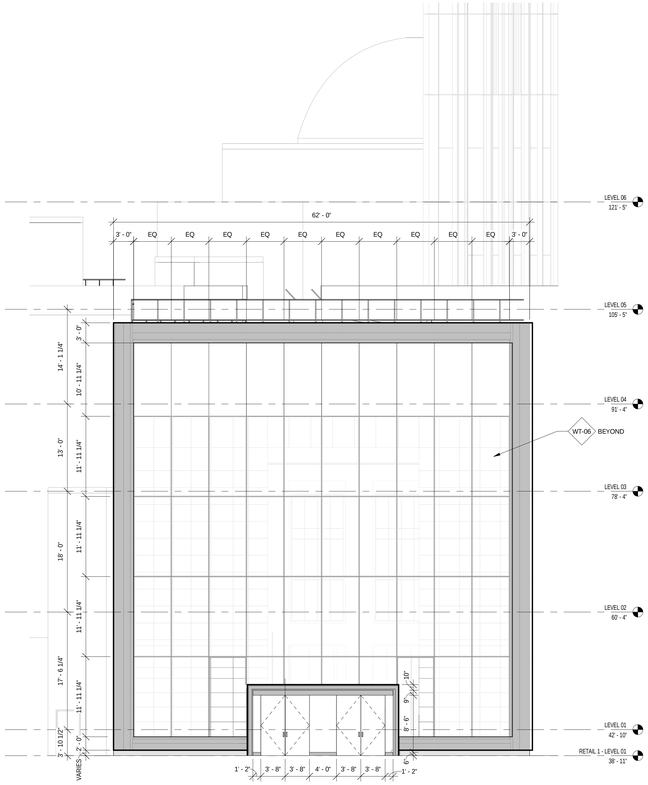
DEPT OF BLDGS 320014338 Job Number
E-5997722758 Scan Code



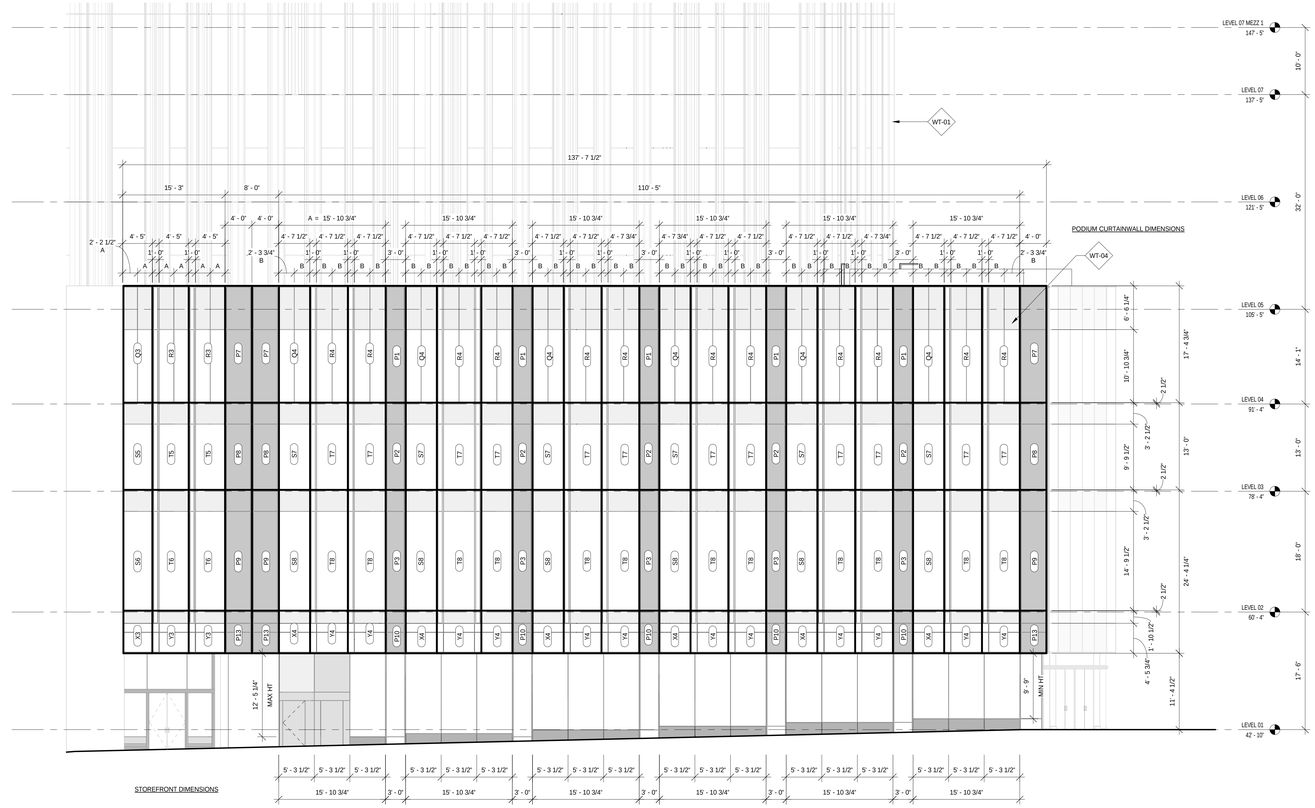
PODIUM ELEVATION - FLEET STREET AND FAE CORNER - PANELS | 1/8" = 1'-0" | 3 | A-321.00



PODIUM ELEVATION - FLEET STREET - PANELS | 1/8" = 1'-0" | 2 | A-321.00



PRISM ELEVATION - FLATBUSH AVE EXT - PANELS | 1/8" = 1'-0" | 4 | A-321.00



PODIUM ELEVATION - FLATBUSH AVE EXT - PANELS | 1/8" = 1'-0" | 1 | A-321.00

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NEW YORK, NY 10011
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NEW YORK, NY 10016
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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINEERING
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HACKENSACK, NJ 07601
tel 201.820.2602

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7800

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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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NEW YORK, NY 10005
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9 DEKALB AVE

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07/01/16	FACADE BID PACKAGE

NO.	DATE	REVISION

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PODIUM ELEVATIONS - FACADE PANELIZATION

SEAL & SIGNATURE

REGISTERED ARCHITECT JESSE A. PASQUARELLI 026529 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-321.00

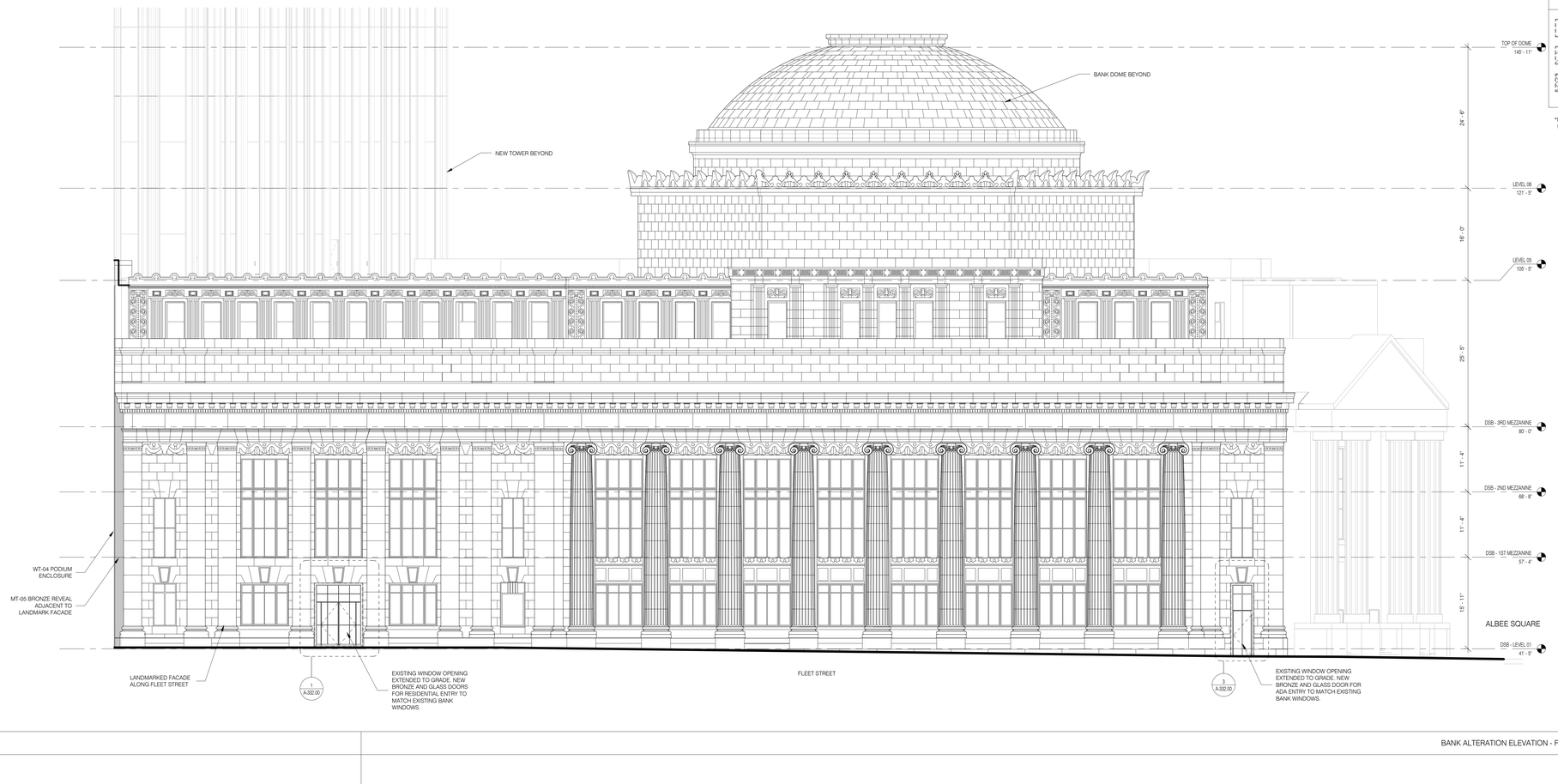
DEPT OF BLDGS 320914338 Job Number

E 320914338 1 Scan Code

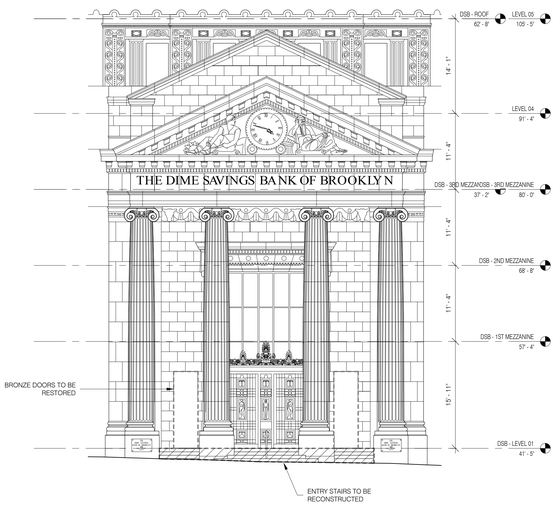
ALTERATION GRAPHIC - LEGEND

- MODIFICATIONS TO EXISTING MASONRY OPENINGS
- BUILDING ADDITIONS
- MODIFICATIONS TO FINISHES

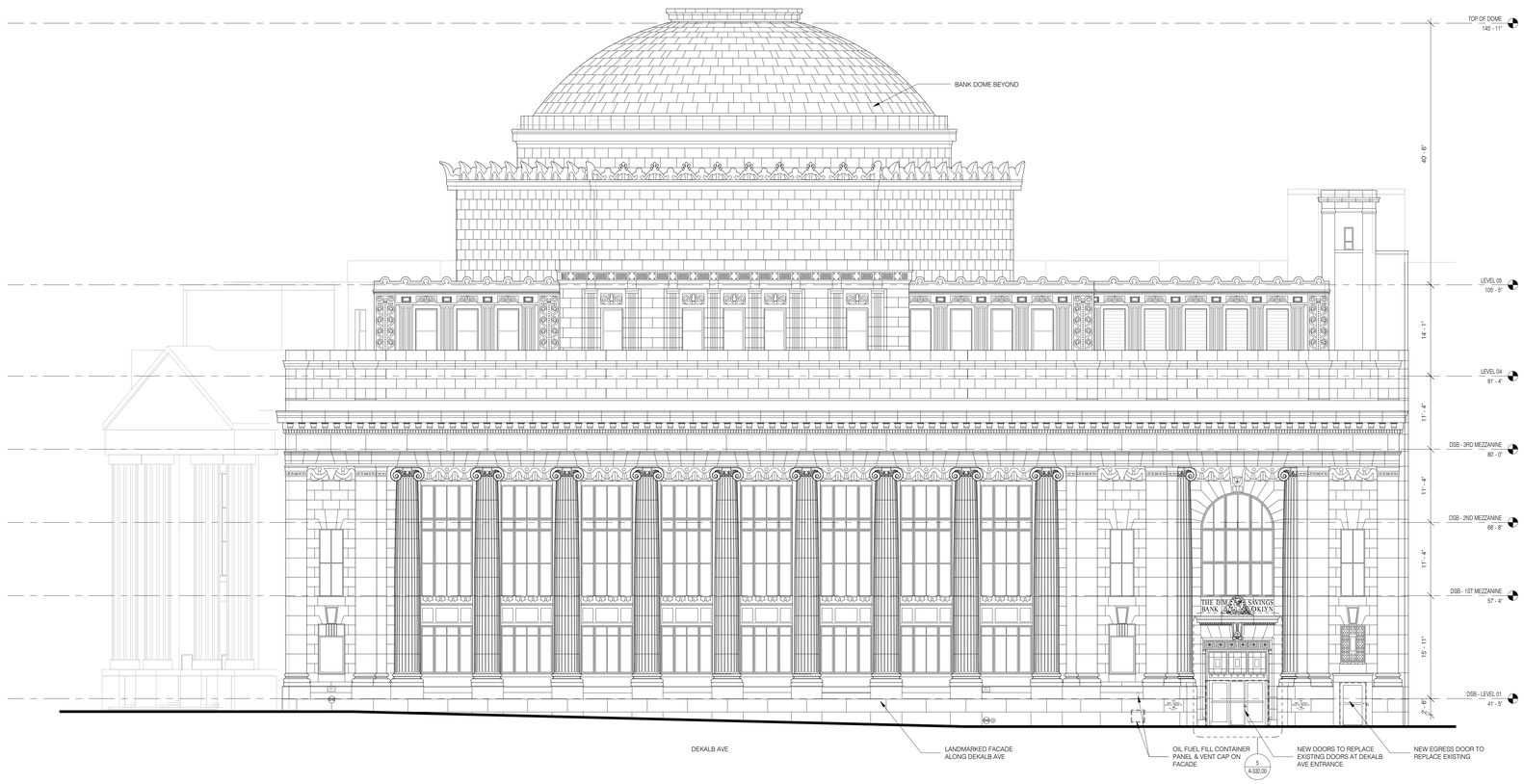
*FOR RESTORATION SCOPE, SEE HP-300.00 - HP-303.00
FOR REMOVAL SCOPE, SEE DM-110.00 - DM-111.00



BANK ALTERATION ELEVATION - FLEET STREET - SOUTH | 1/8" = 1'-0" | 2 / A-330.00



BANK ALTERATION ELEVATION - ALBEE SQUARE | 1/8" = 1'-0" | 3 / A-330.00



BANK ALTERATION ELEVATION - DEKALB AVE | 1/8" = 1'-0" | 1 / A-330.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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JAROS, BAUM & BOLLES
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NEW YORK, NY 10005
tel 212.530.9300

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WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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AKRF
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NEW YORK, NY 10016
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EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
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NEW YORK, NY 10012
tel 646.666.0846

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DRAWING TITLE

DIME SAVINGS BANK ALTERATION - ELEVATIONS

SEAL & SIGNATURE

REGISTERED ARCHITECT GREGORY PASQUARELLI STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

A-330.00

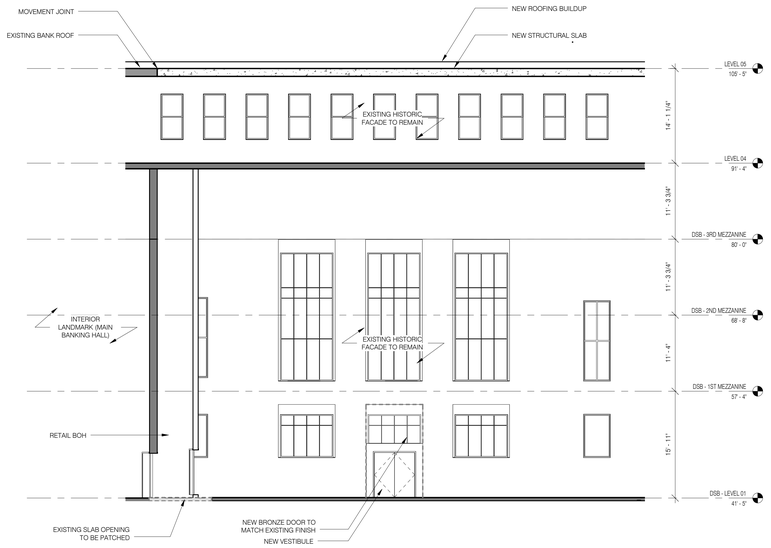
DEPT OF BLDGS3091438 Job Number

E3400765225 Scan Code

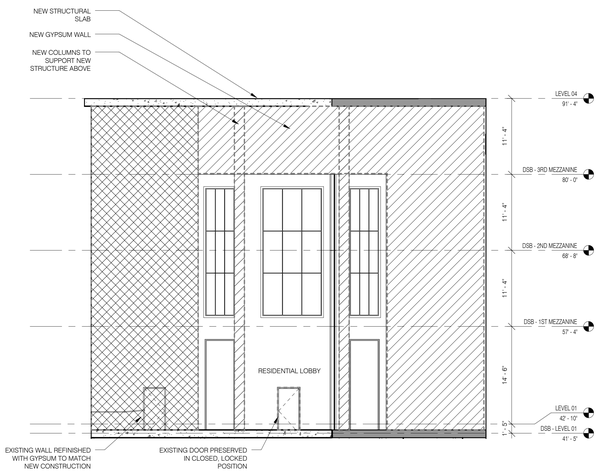
ALTERATION GRAPHIC - LEGEND

- MODIFICATIONS TO EXISTING MASONRY OPENINGS
- BUILDING ADDITIONS
- MODIFICATIONS TO FINISHES

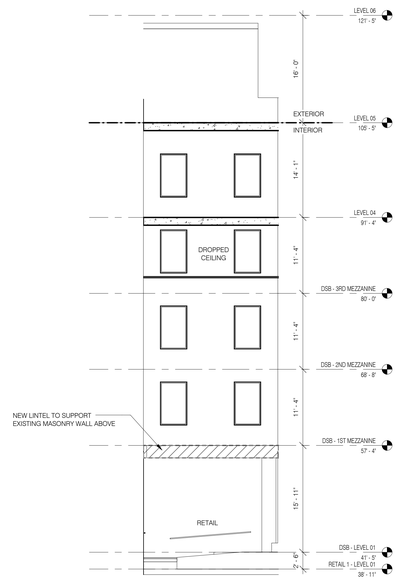
*FOR RESTORATION SCOPE, SEE HP-300.00 - HP-303.00
FOR REMOVAL SCOPE, SEE DM-110.00 - DM-111.00



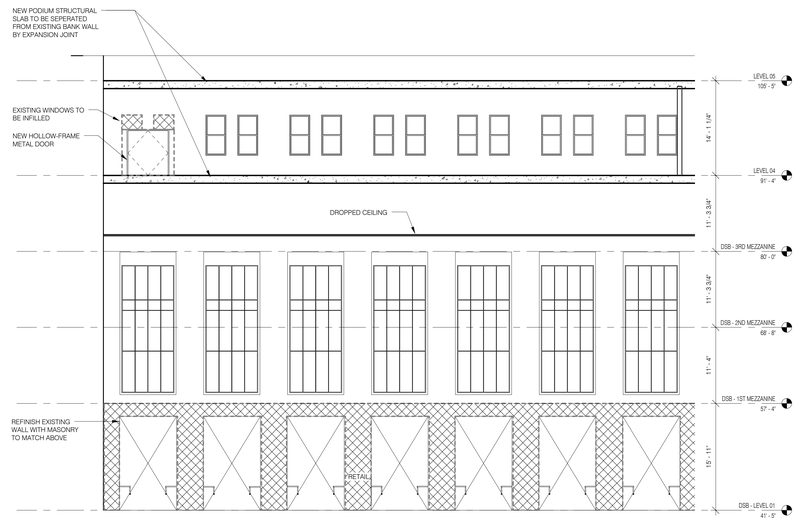
BANK ALTERATION ELEVATION - FLEET ST WALL - FROM SOUTHEAST | 1/8" = 1'-0" | 4 | A-331.00



BANK ALTERATION ELEVATION - NORTH WALL - FROM NORTH | 1/8" = 1'-0" | 3 | A-331.00



BANK ALTERATION ELEVATION - DEKALB ANNEX NORTH WALL - NORTH | 1/8" = 1'-0" | 2 | A-331.00



BANK ALTERATION ELEVATION - NORTHEAST WALL - FROM NORTHEAST | 1/8" = 1'-0" | 1 | A-331.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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NEW YORK, NY 10279
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MRCE
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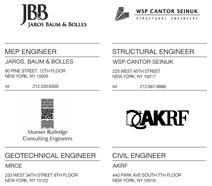

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07/15/16	DOB FILING SET

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DIME SAVINGS BANK ALTERATION - ELEVATIONS

SEAL & SIGNATURE

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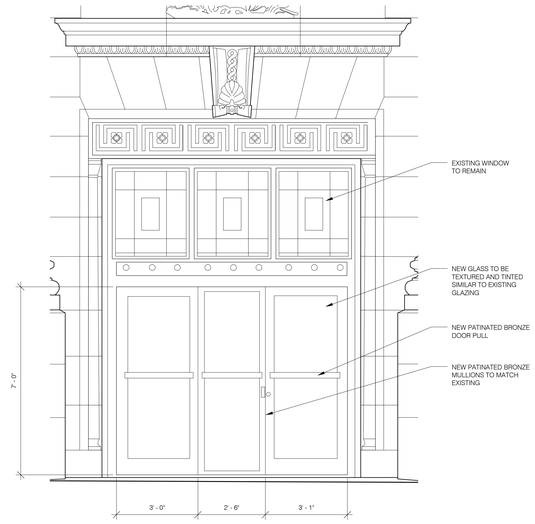
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

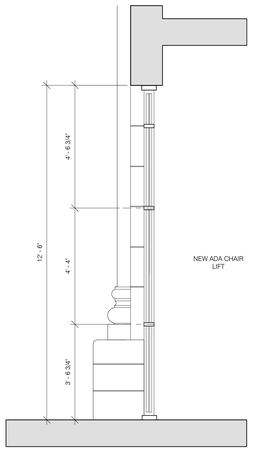
A-331.00

DEPT OF BLDGS 320914338 Job Number

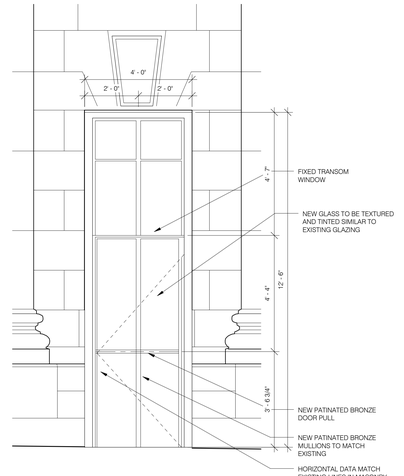
E 500528356 Scan Code



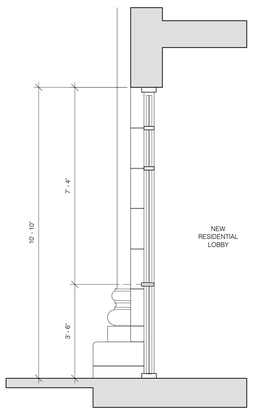
ELEVATION - DOORS AT DEKALB AVE ENTRANCE | 1/2" = 1'-0" | 5 / A-332.00



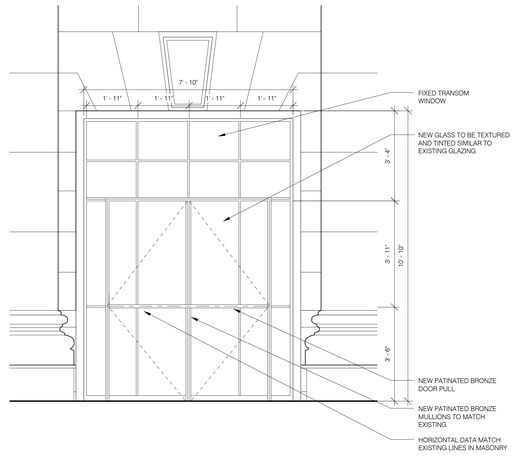
SECTION - DOOR AT FLEET STREET ADA ACCESS | 1/2" = 1'-0" | 4 / A-332.00



ELEVATION - DOOR AT FLEET STREET ADA ACCESS | 1/2" = 1'-0" | 3 / A-332.00



SECTION - DOOR AT FLEET STREET LOBBY ENTRANCE | 1/2" = 1'-0" | 2 / A-332.00



ELEVATION - DOOR AT FLEET STREET LOBBY ENTRANCE | 1/2" = 1'-0" | 1 / A-332.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 35TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
164 BROADWAY SUITE 309
NEW YORK, NY 10012
tel 646.666.0846

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LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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196 AMES STREET
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333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4390

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22 CORTLANDT STREET, 16TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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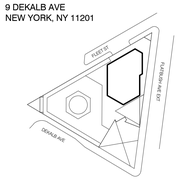

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DIME SAVINGS BANK ALTERATION - DETAILS

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REGISTERED ARCHITECT GREGORY PASQUARELLI STATE OF NEW YORK

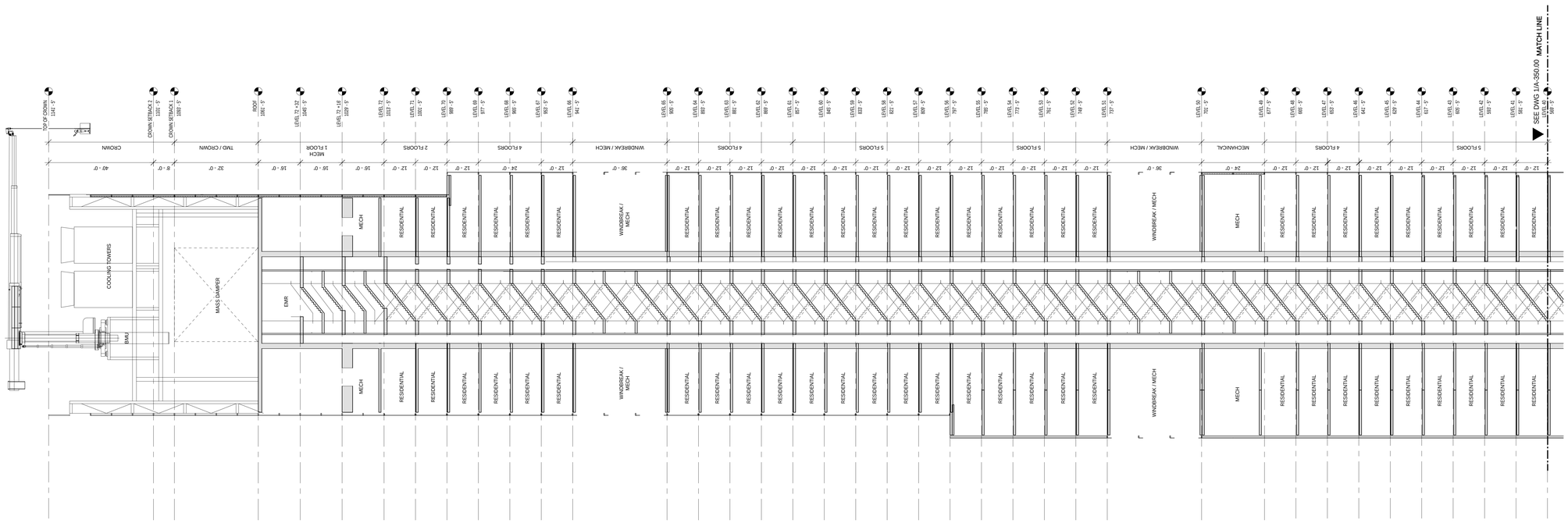
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

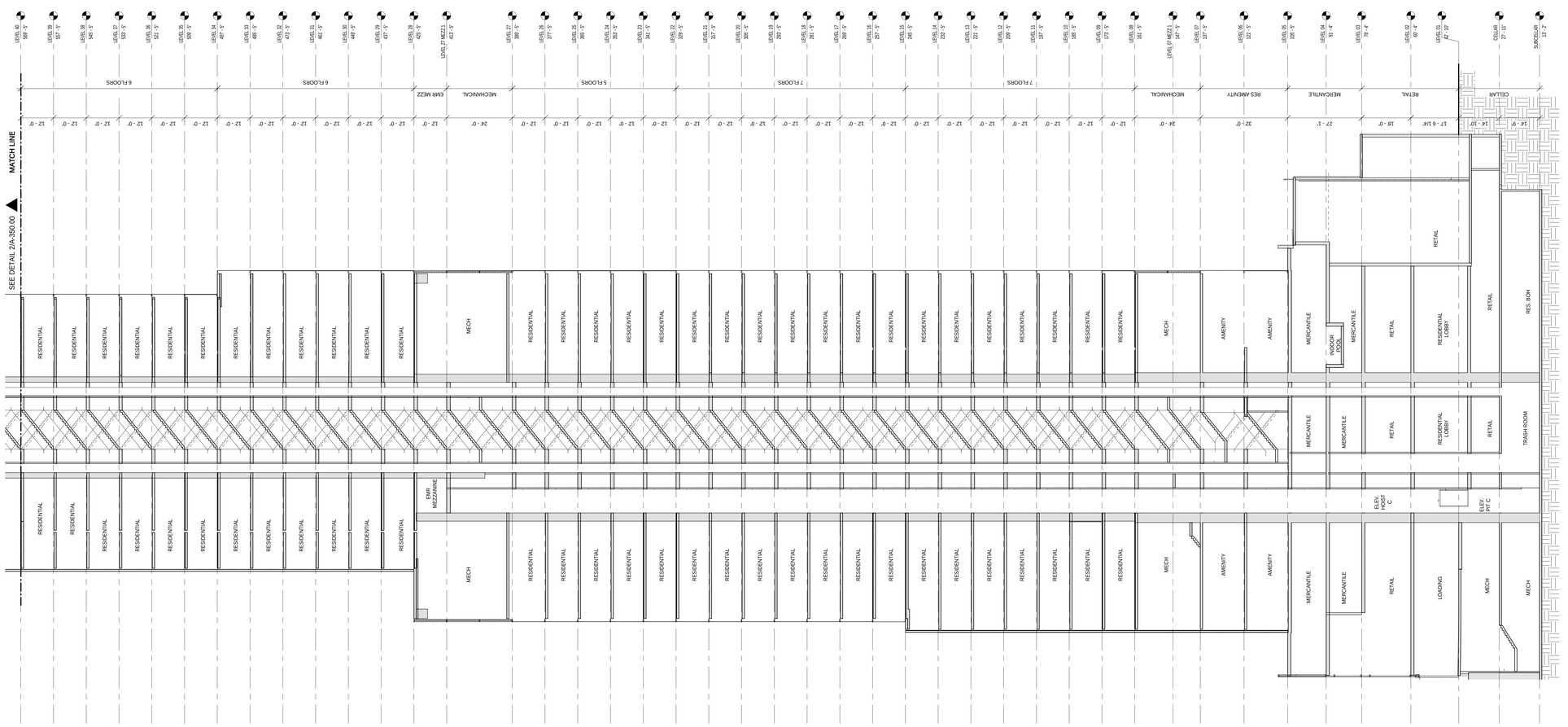
DRAWING NUMBER

A-332.00

DEPT OF BLDGS 320914338 Job Number

E-5197655845 Sheet Code





SECTION N-S - UPPER

1/16" = 1'-0"

2

A-00.00

SECTION N-S - LOWER

1/16" = 1'-0"

1

A-00.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS BAUM & BOLLES

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JAROS, BAUM & BOLLES
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NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
220 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.759.6560

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LIGHTING
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NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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NEW YORK, NY 10018
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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
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100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Latheon TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201

SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
07/01/16	FACADE BID PACKAGE
02/05/16	100% SD REASSESSMENT
05/05/15	DOB FILING SET
3/13/15	100% SCHEMATIC DESIGN

NO.	DATE	REVISION

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DRAWING TITLE

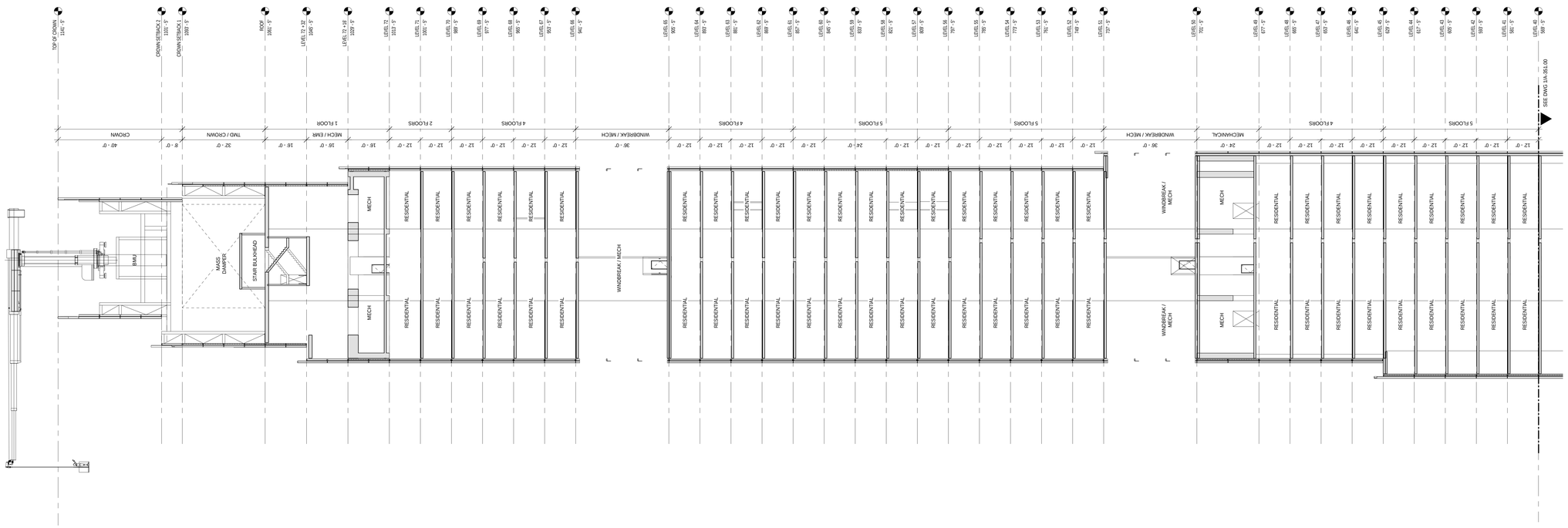
BUILDING SECTION NORTH-SOUTH

SEAL & SIGNATURE

REGISTERED ARCHITECT DEBORA A. PASQUARELLI 026926 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-350.00

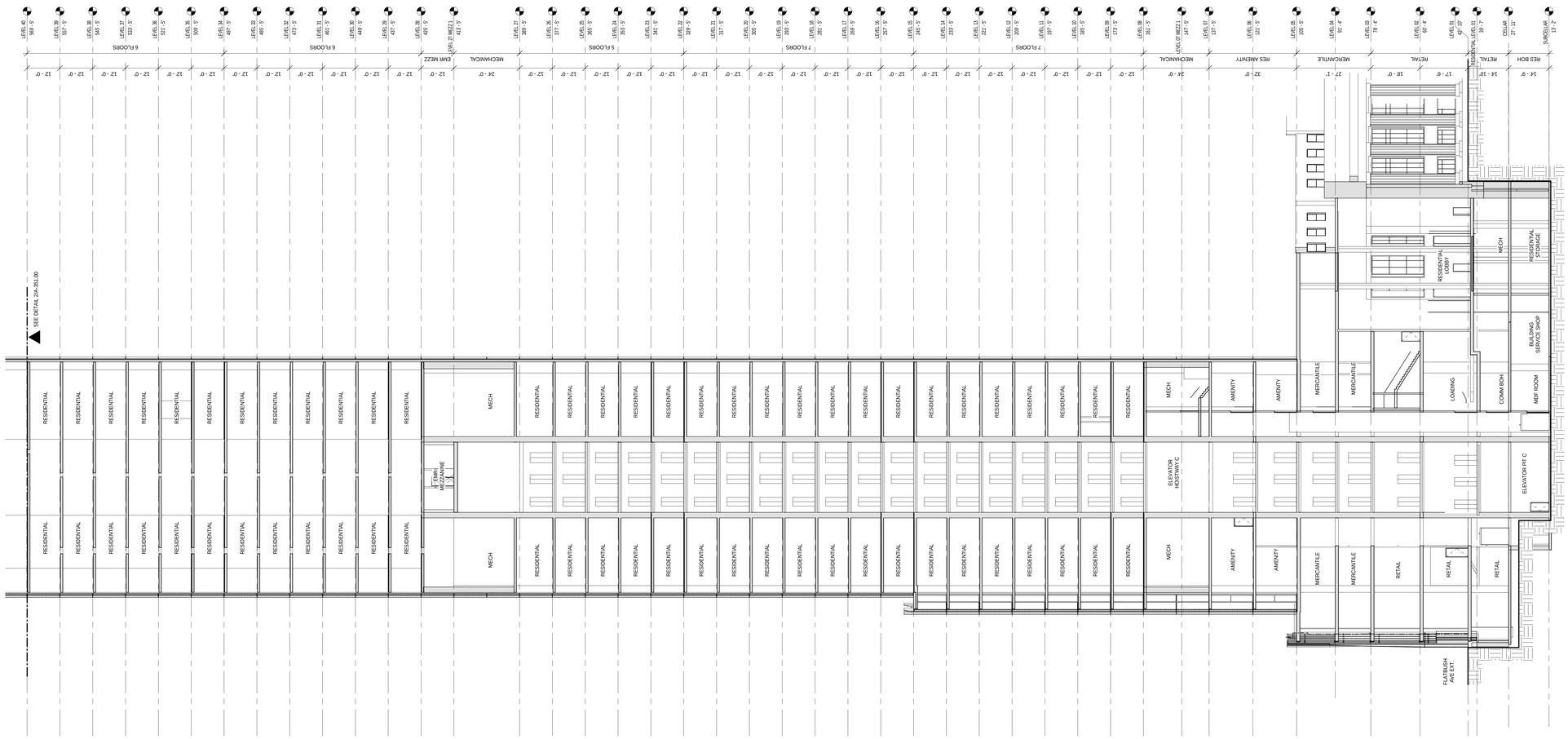
DEPT OF BLDGS 320914338 Job Number
B1640A330206 Scan Code



SECTION - E-W - UPPER

1/16" = 1'-0"

2 A-351.00



SECTION - E-W - LOWER

1/16" = 1'-0"

1 A-351.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 117H FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
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NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
220 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10016
tel 212.759.6540

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NEW YORK, NY 10001
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NEW YORK, NY 10018
tel 212.315.6400

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HACKENSACK, NJ 07601
tel 201.820.2802

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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.495.4290

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NEW YORK, NY 10007
tel 212.233.6344

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SITE DIAGRAM

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02/05/16	100% SD REASSESSMENT			
05/05/15	DOB FILING SET			
3/13/15	100% SCHEMATIC DESIGN			

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DRAWING TITLE

BUILDING SECTION EAST-WEST

SEAL & SIGNATURE

REGISTERED ARCHITECT GREGORY A. PASQUARELLI 026999 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

A-351.00

DEPT OF BLDGS 320914338 Job Number

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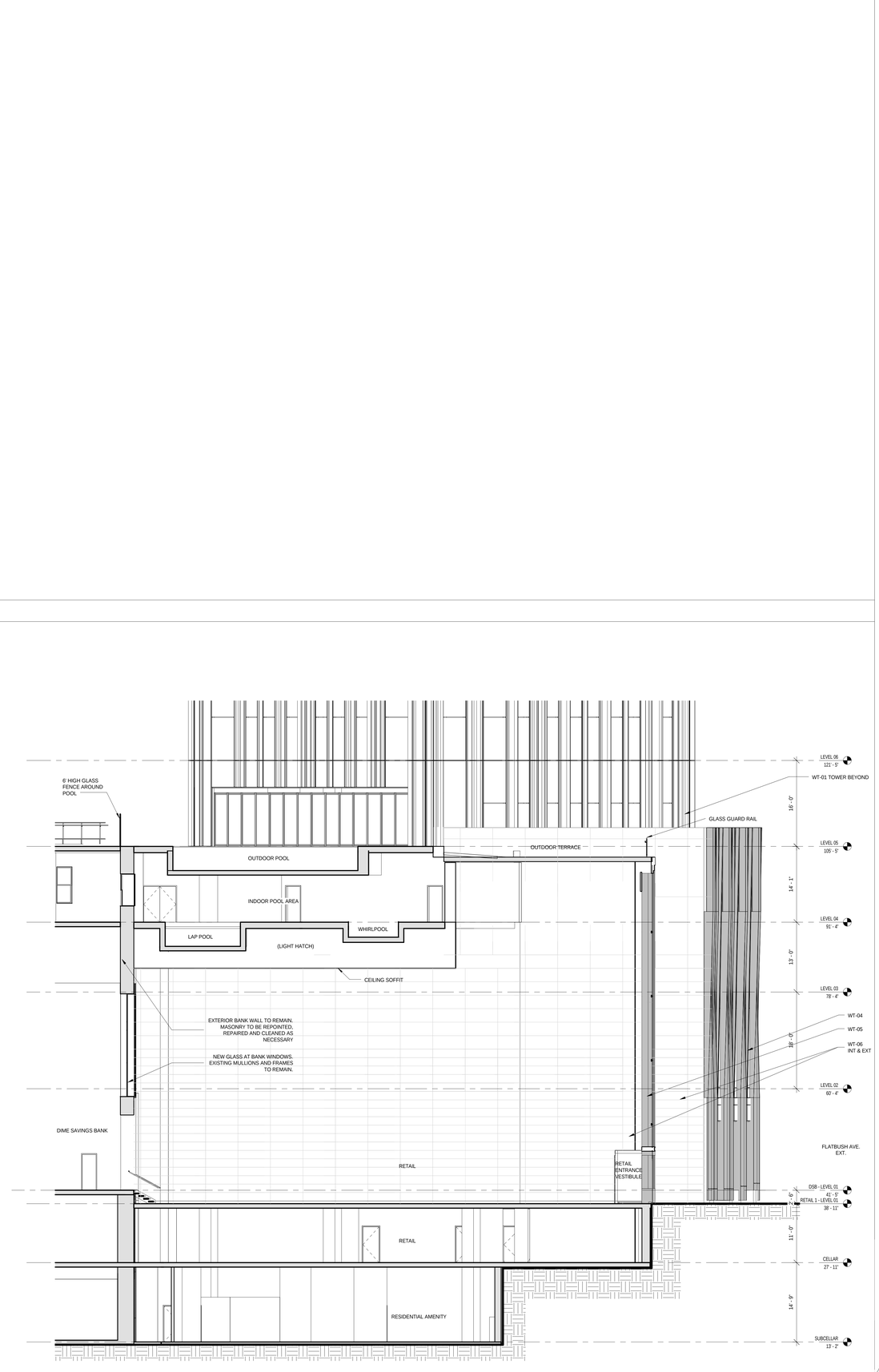

E/W SECTION THROUGH PODIUM

1/8" = 1'-0"

2

A-370.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
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NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 45TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
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EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.315.6400

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166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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NEW YORK, NY 10010
tel 212.689.5389

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NEW YORK, NY 10005
tel 212.334.2025

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WHITE PLAINS, NY 10604
tel 914.495.4290

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NEW YORK, NY 10007
tel 212.233.6344

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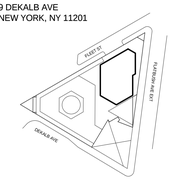
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
02/05/16	100% SD REASSESSMENT
05/05/15	DOB FILING SET
3/13/15	100% SCHEMATIC DESIGN

NO.	DATE	REVISON

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ENLARGED SECTIONS

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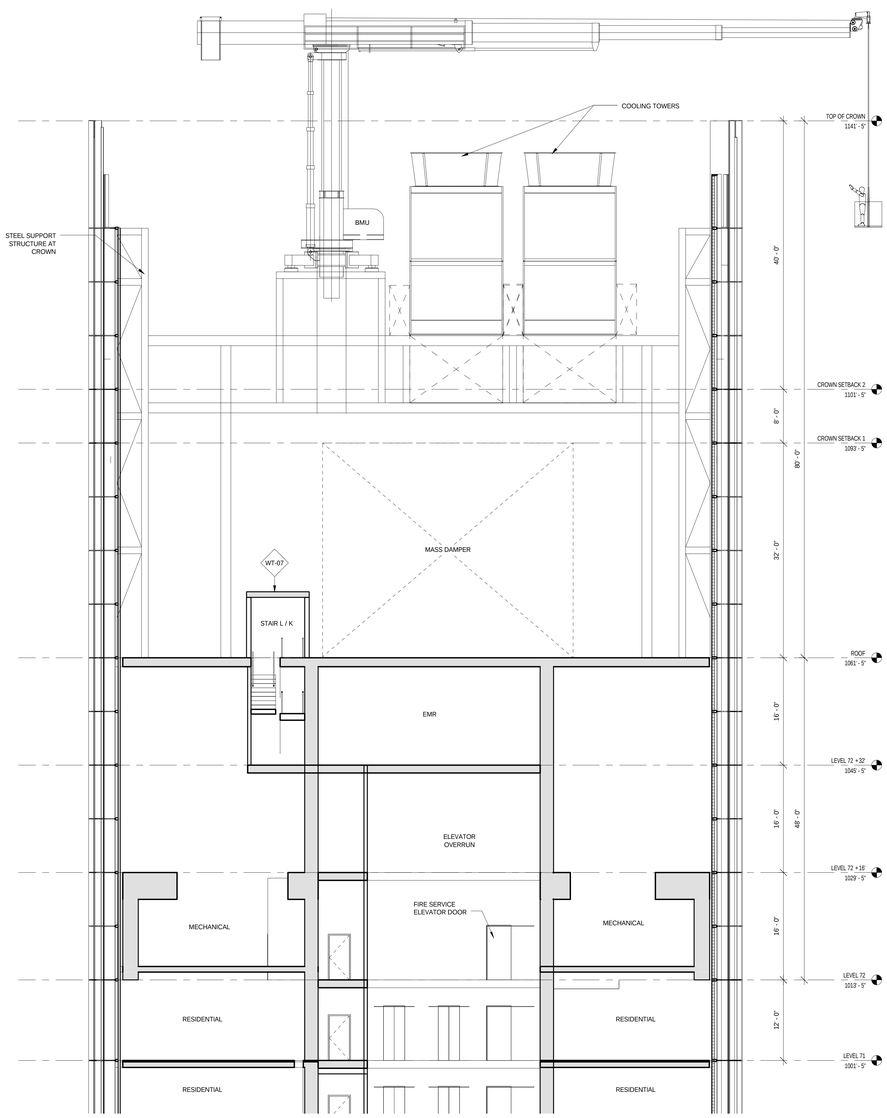
REGISTERED ARCHITECT GREGG A. FASSBINDER STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

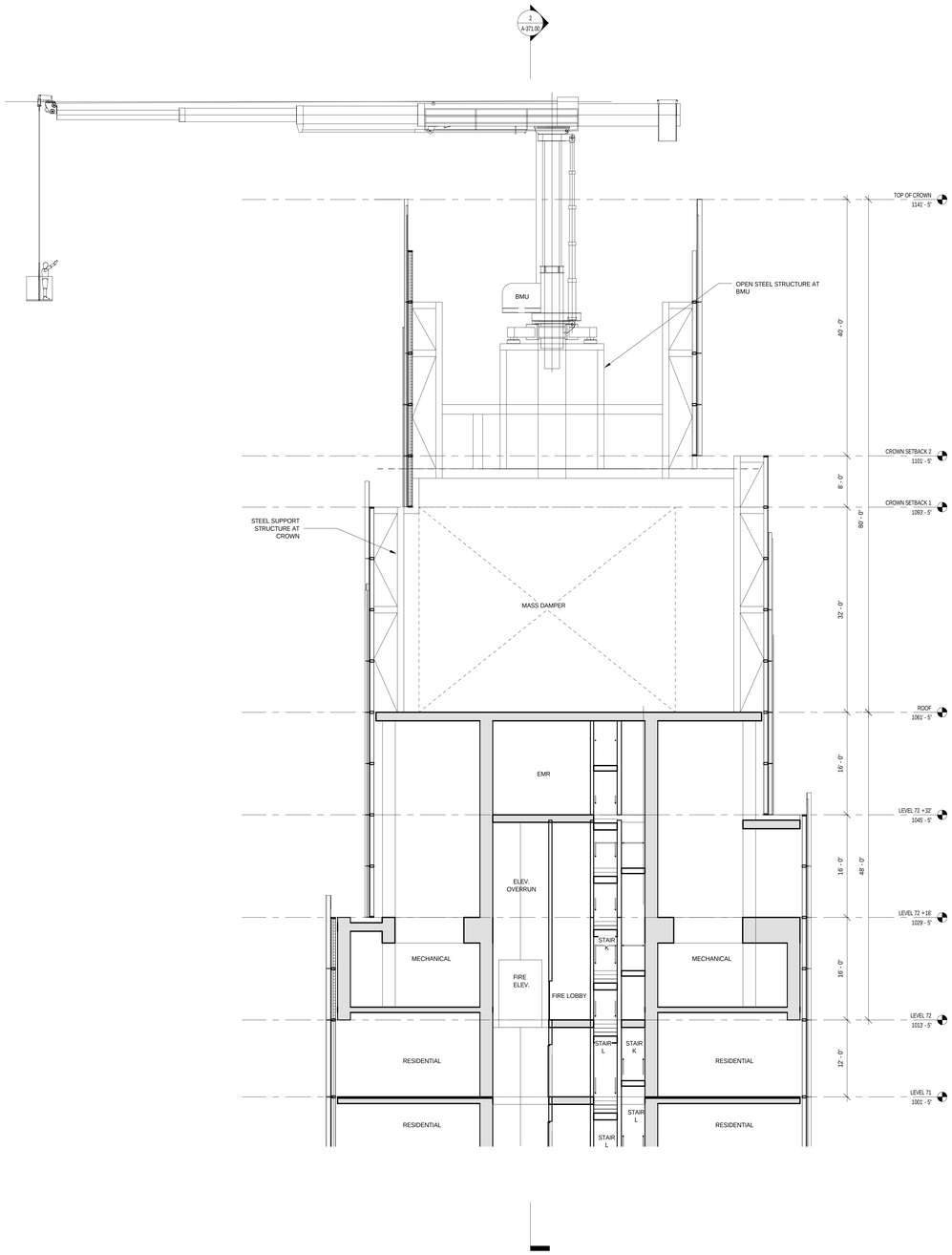
DRAWING NUMBER

A-370.00

DEPT OF BLDGS 320914338 Job Number
E 5004511755 Scan Code



N/W SECTION THROUGH ROOF LOOKING EAST | 1/8" = 1'-0" | 2 | A-371.00



E/W SECTION THROUGH ROOF LOOKING NORTH | 1/8" = 1'-0" | 1 | A-371.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

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WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.8888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
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VAN DEUSEN & ASSOCIATES
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EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

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NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINEERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

TRACE POOL DESIGN

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TRACE POOL DESIGN
310 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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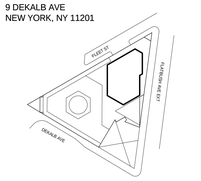
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
07/01/16	FACADE BID PACKAGE
02/05/16	100% SD REASSESSMENT
05/05/15	DOB FILING SET
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DRAWING TITLE

ENLARGED SECTIONS - TOWER CROWN

SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASQUARELLI 032258 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

DRAWING NUMBER

A-371.00

DEPT OF BLDGS 320014338 Job Number

E 3320030038 19 Scan Code

FINISH MATERIAL LEGEND

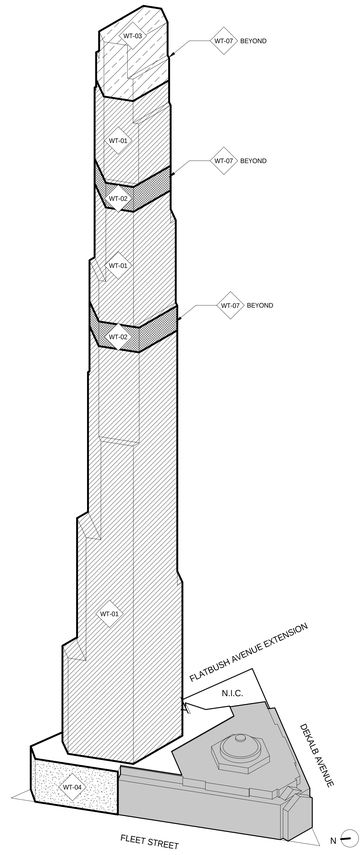
		MATERIAL	DESCRIPTION	LOCATION	ADDITIONAL NOTES
GLASS	GL-01	IGU	**OUTER LITE:** 3/8" CRYSTAL GREY, HEAT STRENGTHENED GLASS **CAVITY:** 1/2" ARGON FILL; BLACK WARM EDGE SPACER AND EDGE SEALS. **INNER LITE:** 5/16" CRYSTAL GREY GLASS, FULLY TEMPERED; HEAT SOAKED	WT-01 & WT-02, TOWER CURTAIN WALL TYPICAL VISION GLASS*	**COATINGS:** BASIS OF DESIGN - CSG CEN13-39D ON #2 SURFACE
	GL-01A	IGU	**OUTER LITE:** 3/8" CRYSTAL GREY, HEAT STRENGTHENED GLASS **CAVITY:** 1/2" ARGON FILL; BLACK WARM EDGE SPACER AND EDGE SEALS. **INNER LITE:** 1/2" CRYSTAL GREY GLASS, FULLY TEMPERED; HEAT SOAKED	WT-01 & WT-02, TOWER CURTAIN WALL VISION GLASS AT HIGH WIND LOAD AREAS	**COATINGS:** BASIS OF DESIGN - CSG CEN13-39D ON #2 SURFACE
	GL-02	LAMINATED GLASS	2 X 5/16" HEAT STRENGTHENED GLASS; PVB INTERLAYER	WT-03, TOWER BULKHEAD	**COATINGS:** BASIS OF DESIGN - CSG CEN13-39D ON #2 SURFACE
	GL-03	LAMINATED GLASS	2 X 3/8" LOW IRON, FULLY TEMPERED GLASS; IONOPLAST INTERLAYER	TOWER TERRACE GUARDRAIL	SINGLE EDGE SUPPORTED
	GL-04	IGU	**OUTER LITE:** 3/8" LOW-IRON, HEAT STRENGTHENED GLASS **CAVITY:** 1/2" ARGON FILL; BLACK WARM EDGE SPACER AND EDGE SEALS. **INNER LITE:** 3/8" LOW-IRON GLASS, FULLY TEMPERED; HEAT SOAKED	WT-04, PODIUM CURTAIN WALL	**COATINGS:** BASIS OF DESIGN - VIRACON VE1-85 ON #2 SURFACE
	GL-05	IGU	**OUTER LITE:** 5/16" LOW-IRON, TWO PILES OF HEAT STRENGTHENED GLASS **CAVITY:** 1/2" ARGON FILL; BLACK WARM EDGE SPACER AND EDGE SEALS. **INNER LITE:** 1/4" LOW-IRON GLASS, FULLY TEMPERED; HEAT SOAKED	WT-04, PODIUM STOREFRONT	**COATINGS:** BASIS OF DESIGN - VIRACON VE1-85 ON #4 SURFACE
	GL-06	LAMINATED GLASS	2 X 3/8" CLEAR, HEAT STRENGTHENED GLASS; PVB INTERLAYER	WT-05, PRISM GLASS - VERTICAL WALL, VESTIBULE	**COATINGS:** BASIS OF DESIGN - VIRACON VE1-85 ON #2 SURFACE
	GL-06 ALT	LAMINATED GLASS	2 X 3/8" *LOW IRON*, HEAT STRENGTHENED GLASS; PVB INTERLAYER	WT-05, PRISM GLASS - VERTICAL WALL, VESTIBULE	**COATINGS:** BASIS OF DESIGN - VIRACON VE24-85 ON #2 SURFACE
	GL-07	IGU	**OUTER LITE:** 3/8" CRYSTAL GREY, HEAT STRENGTHENED GLASS **CAVITY:** 1/2" ARGON FILL; BLACK WARM EDGE SPACER AND EDGE SEALS. **INNER LITE:** 5/16" CRYSTAL GREY GLASS, FULLY TEMPERED; HEAT SOAKED	GLASS AT TOWER AMENITY FLOOR FOLDING WALL	**COATINGS:** BASIS OF DESIGN - CSG CEN13-39D ON #2 SURFACE
METAL	MT-01	ALUMINUM, EXTRUDED	PAINTED, EXTRUDED ALUMINUM MULLIONS, TRANSOMS, AND OTHER CURTAIN WALL FRAMING ELEMENTS. **FINISH:** POWDER COATED	WT-01, TOWER CURTAIN WALL MULLIONS, TRANSOMS, ETC.	**COLOR:** DARK GRAY/BLACK
	MT-02	ALUMINUM, PLATE	PAINTED, BREAK FORMED ALUMINUM SHADOW BOX BACKPAN. **FINISH:** POWDER COATED	WT-01, TOWER CURTAIN WALL SHADOW BOX BACK PAN	**COLOR:** DARK GRAY
	MT-03	STAINLESS STEEL	1.5 MM THICK BLACK STAINLESS STEEL **FINISH:** BLACK, INOX MARBLED FINISH OR APPROVED EQUIVALENT	WT-01 ARCHITECTURAL PROFILES ^	GRADE 316 **COLOR:** BLACK
	MT-04	STAINLESS STEEL	1.5 MM THICK STAINLESS STEEL **FINISH:** BEAD BLASTED, LIGHT INTERFERENCE COLORED - COPPER	WT-01 ARCHITECTURAL PROFILES ^	GRADE 316 **COLOR:** COPPER
	MT-05	ALUMINUM, EXTRUDED	BLACK PAINTED ALUMINUM **FINISH:** POWDER COATED	WT-01 ARCHITECTURAL PROFILES ^	**COLOR:** PPG UC40577VL
	MT-06	ALUMINUM, EXTRUDED	GOLD PAINTED ALUMINUM **FINISH:** POWDER COATED	WT-01 ARCHITECTURAL PROFILES ^	**COLOR:** PPG UC123931XL
	MT-07	ALUMINUM, EXTRUDED	CINNAGOLD PAINTED ALUMINUM **FINISH:** POWDER COATED	WT-01 ARCHITECTURAL PROFILES ^	**COLOR:** PPG UC106717XL
	MT-08	ALUMINUM, EXTRUDED	CREAM PAINTED ALUMINUM **FINISH:** POLIMER TERRAKOTTA PVDF PAINT	WT-01 ARCHITECTURAL PROFILES ^	**COLOR:** CREAM/WHITE
	MT-09	ALUMINUM, EXTRUDED	PAINTED ALUMINUM EXTRUSION **FINISH:** POWDER COATED	TOWER TERRACE GUARDRAIL TOP CAP	**COLOR:** PPG UC52006
	MT-10	ALUMINUM	PAINTED ALUMINUM MECHANICAL LOUVER **FINISH:** POWDER COATED	TOWER MECHANICAL LOUVER	**COLOR:** DARK GRAY
	MT-11	ALUMINUM COMPOSITE PANEL	PAINTED ALUMINUM COMPOSITE PANEL	WT-07 CLADDING AT EXPOSED STRUCTURE AT WIND FLOORS, WT-04 CURTAIN WALL INFILL PANEL BEHIND CONVEXICAVE PROFILES.	**COLOR:** DARK GRAY
	MT-12	STEEL	PAINTED STRUCTURAL STEEL	STRUCTURAL SUPPORT STEEL AT WT-03 BULKHEAD CLADDING AND WT-04 CONVEXICAVE SUPPORT	**COLOR:** DARK GRAY/BLACK
	MT-13	ALUMINUM, PLATE	PAINTED, BREAK FORMED ALUMINUM COPING **FINISH:** POWDER COATED	ALUMINUM COPING AT PARAPETS	**COLOR:** DARK GRAY
	MT-14	ALUMINUM, EXTRUDED	PAINTED, EXTRUDED ALUMINUM MULLIONS, TRANSOMS, AND OTHER CURTAIN WALL FRAMING ELEMENTS. **FINISH:** POWDER COATED	WT-04, PODIUM CURTAIN WALL MULLIONS, TRANSOMS, ETC.	**COLOR:** DARK GRAY/BLACK
	MT-15	MUNTZ METAL	BREAK FORMED MUNTZ METAL **FINISH:** MILL	WT-04, METAL FIN	
	MT-16	ALUMINUM, EXTRUDED	PAINTED, EXTRUDED ALUMINUM MULLIONS, TRANSOMS, AND OTHER STOREFRONT FRAMING ELEMENTS. **FINISH:** POWDER COATED	WT-04, PODIUM STOREFRONT MULLIONS, TRANSOMS, ETC.	**COLOR:** DARK GRAY/BLACK
	MT-17	MUNTZ METAL	BREAK FORMED MUNTZ METAL **FINISH:** MILL	WT-04, METAL TRIM AT SIDES OF CONVEXICAVE PROFILES AND STONE FINS; STOREFRONT SETBACK SOFFIT.	
	MT-18	ALUMINUM, PLATE	PAINTED, BREAK FORMED ALUMINUM SHADOW BOX BACKPAN. **FINISH:** POWDER COATED	WT-04, PODIUM CURTAIN WALL SHADOW BOX BACK PAN	**COLOR:** WHITE/LIGHT GRAY
	MT-19	MUNTZ METAL	MUNTZ METAL AND PAINTED STEEL MULLION	WT-05: METAL CLADDING ON STEEL MULLIONS AT PRISM EXTERIOR WALL	**FINISH:** MILL
	MT-20	MUNTZ METAL	BREAK FORMED MUNTZ METAL	WT-05: CLADDING AT PRISM PERIMETER, FASCIA, AND COPING	**FINISH:** MILL
	MT-22	MUNTZ METAL	MUNTZ METAL RAINSCREEN PANEL	WT-05, PANELS AT FASCIA	**FINISH:** MILL
STONE	ST-01	WHITE/BEIGE MARBLE	EXTERIOR GRADE MARBLE, WHITE/BEIGE	WT-04: PANELS AT CURTAINWALL, CONVEXICAVE PROFILES, STONE FINS	**FINISH:** HONED
	ST-02	BLACK GRANITE	EXTERIOR GRADE BLACK GRANITE	WT-04: AT BASE OF STOREFRONT	**FINISH:** HONED

NOTES:

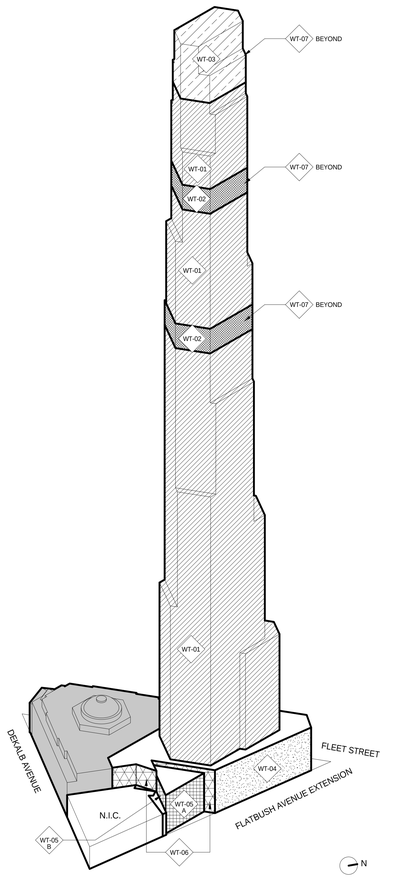
* - GL-01 APPLIES TO GLASS ON TYPICAL WT-01 AND WT-02 PANELS ONLY. FOR PANELS IN HIGH WIND LOAD AREAS REFER TO GL-01A. FOR PANELS AT WT-03 BULKHEAD CLADDING, REFER TO GL-02

^ - FOR ELEMENTS ANNOTATED AS "ARCHITECTURAL PROFILE" IN THE FOLLOWING DRAWINGS, REFER TO SHEETS A-401.00 THROUGH A-403.00 FOR A FULL SCHEDULE OF THE LOCATION AND QUANTITIES OF MT-03 THROUGH MT-08 ELEMENTS.

FACADE MATERIAL SCHEDULE 4



AXONOMETRIC VIEW - NORTHWEST | 1/64" = 1'-0" | 3 | A-400.00



AXONOMETRIC VIEW - SOUTHEAST | 1/64" = 1'-0" | 2 | A-400.00

EXTERIOR WALL SYSTEM TYPES

WT-01: TOWER CURTAIN WALL
STRUCUTRALLY GLAZED, UNITIZED ALUMINUM CURTAIN WALL SYSTEM WITH ARCHITECTURAL METAL PROFILES AT OPAQUE PANELS. APPROXIMATELY 30% OF VISION GLASS UNITS INCLUDE OPERABLE WINDOWS. VERTICALLY ORIENTED LOUVERS AT MECHANICAL FLOORS.

299,607 SF

WT-02: TOWER WIND FLOOR CLADDING
OPEN SYSTEM WITH ARCHITECTURAL METAL PROFILES ON OPAQUE UNITIZED PANELS. NOT A WEATHER ENCLOSURE.

22,221 SF

WT-03: TOWER BULKHEAD CLADDING
CONTINUATION OF WT-01 TOWER CURTAIN WALL SYSTEM AS CLADDING FOR MECHANICAL EQUIPMENT AT THE ROOF. WT-03-A NOT A WEATHER ENCLOSURE.

20,340 SF

WT-04: PODIUM ENCLOSURE SYSTEM
ALUMINUM AND IGU CURTAIN WALL SYSTEM WITH VERTICAL STONE AND METAL ARCHITECTURAL FEATURES. ALUMINUM STOREFRONT SYSTEM WITH IGU AT GROUND LEVEL.

19,362 SF

WT-05: PRISM ENCLOSURE
GLASS AND METAL ENCLOSURE SUPPORTED BY MUNTZ METAL-CLAD VERTICAL STEEL MULLIONS.

WT-05-A (GLASS FACE) 4000 SF
WT-05-B (METAL RAIN SCREEN FACE) 936 SF

WT-06: STONE CLADDING
MARBLE PANEL RAIN SCREEN CLADDING ON CMU WALL WITH WATERPROOFING AND INSULATION. INSULATION IS EXCLUDED FROM INTERIOR CONDITION.

WT-06-A (EXTERIOR) 3,407 SF
WT-06-B (INTERIOR) 11,230 SF

WT-07: METAL RAIN SCREEN
ALUMINUM PANEL RAIN SCREEN OVER INSULATION AT EXPOSED COLUMNS AND CORE AT WIND FLOORS, AND AT STAIR AND ELEVATOR OVERRUNS.

15,000 SF

WT-EX: EXISTING LANDMARKED BANK FACADE

NOTE: ALL QUANTITIES AND AREA TAKEOFFS ARE PRELIMINARY AND TO BE USED FOR INFORMATION ONLY. IF USED FOR PRICING PURPOSES ALL QUANTITIES ARE TO BE INDEPENDENTLY VERIFIED.

EXTERIOR WALL SYSTEM TYPES 1

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.759.6540

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BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
590 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201

SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
07/01/16	FACADE BID PACKAGE
02/05/16	100% SD REASSESSMENT
3/13/15	100% SCHEMATIC DESIGN

NO.	DATE	REVISION

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DRAWING TITLE

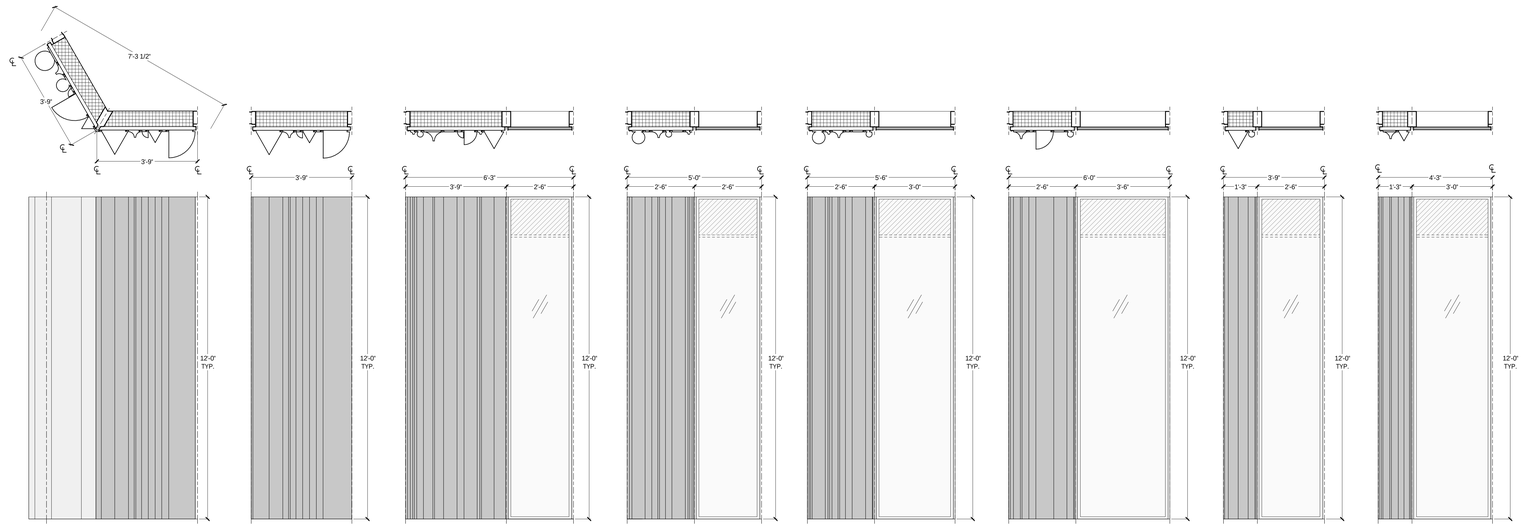
EXTERIOR WALL TYPE SUMMARY

SEAL & SIGNATURE

REGISTERED ARCHITECT OMEGA A. PASQUARIELLO 029765 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-400.00

DEPT OF BLDGS 320914338 Job Number
E 5374702294 Scan Code



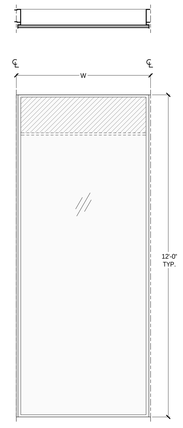
NOTE: GLASS INFILL UNITS CAN BE INTERCHANGED WITH VISION, OPERABLE, SPANDREL, LOUVER, OR WIND FLOOR UNITS. SEE SCHEDULE ON A-404.00.

PANEL ID	PANEL WIDTH	GLASS WIDTH	WT-01 PANEL COUNT	WT-02 PANEL COUNT	WT-03 PANEL COUNT	TOTAL PANEL COUNT
A	6' - 6"*	N/A	461	36	54	551
B	3' - 9"	N/A	773	63	65	901
G	6' - 3"	2' - 6"	520	96	20	676
J	5' - 0"	2' - 6"	190	0	19	209
K	5' - 6"	3' - 0"	327	27	52	406
L	6' - 0"	3' - 6"	445	33	19	497
M	3' - 9"	2' - 6"	720	57	49	826
N	4' - 3"	3' - 0"	468	42	23	533
	TOTAL OPAQUE PANELS =		4004	294	301	4599

*NOTE: PANEL TYPE A WIDTH MEASURED ON DIAGONAL.

TOWER CURTAIN WALL PANELS - OPAQUE PANEL TYPES | 1/2" = 1'-0" | 1 / A-401.00

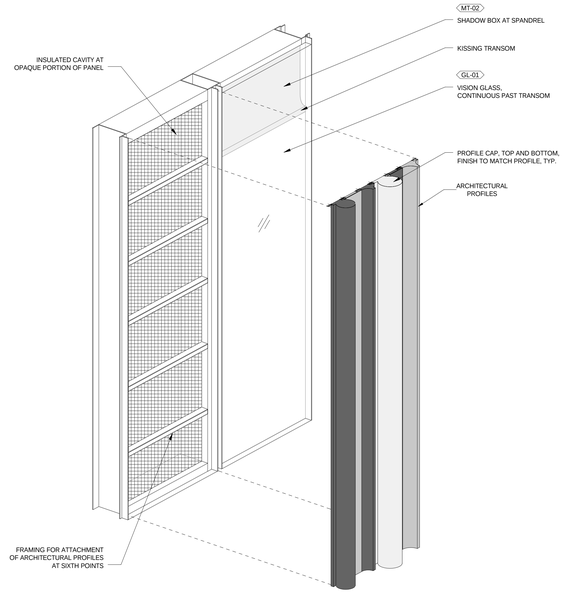
NOTE: ALL QUANTITIES AND AREA TAKEOFFS ARE PRELIMINARY AND TO BE USED FOR INFORMATION ONLY. IF USED FOR PRICING PURPOSES ALL QUANTITIES ARE TO BE INDEPENDENTLY VERIFIED.



PANEL ID	PANEL WIDTH	WT-01 PANEL COUNT	WT-02 PANEL COUNT	WT-01 + WT-02 PANEL COUNT:
Z.1	2' - 6"	65	0	65
Z.2	3' - 2 1/8"	239	27	266
Z.3	4' - 10 7/8"	384	36	420
Z.4	2' - 3 3/4"	50	0	50
Z.5	2' - 8 1/2"	129	18	147
Z.6	2' - 9 1/2"	15	0	15
Z.7	3' - 4 1/4"	6	0	6
Z.8	3' - 7 1/4"	56	6	62
Z.9	3' - 11 1/8"	52	9	61
Z.10	4' - 6"	117	3	120
Z.11	4' - 7 3/8"	10	0	10
Z.12	4' - 7 1/2"	10	0	10
Z.13	4' - 10 5/8"	50	0	50
Z.14	4' - 11 3/4"	38	0	38
	TOTAL Z PANELS =	1221	99	1320

PANEL ID	PANEL WIDTH	WT-03 PANEL COUNT
Z.1	2' - 6"	33
Z.2	3' - 2 1/8"	33
Z.3	4' - 10 7/8"	39
Z.7	3' - 4 1/4"	9
Z.8	3' - 7 1/4"	26
Z.15	3' - 0"	18
Z.16	3' - 6"	2
Z.17	3' - 9"	11
Z.18	4' - 8 3/4"	3
Z.19	4' - 9 5/8"	4
	TOTAL Z PANELS =	178

CURTAIN WALL PANELS - GLASS ONLY PANEL TYPES | 1/2" = 1'-0" | 2 / A-401.00



TOWER PANEL EXPLODED ISOMETRIC | N.T.S. | 3 / A-401.00

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JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
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NEW YORK, NY 10279
tel 212.889.9005

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tel 212.530.9300

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tel 212.687.9888

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tel 914.495.4290

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22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
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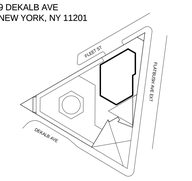

SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
07/01/16	FACADE BID PACKAGE			
02/05/16	100% SD REASSESSMENT			

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DRAWING TITLE

WT-01, 02, & 03 - TOWER CURTAIN WALL - UNITIZED PANEL SCHEDULE

SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASQUARELLI 026292 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

A-401.00

DEPT OF BLDGS 320914338 Job Number
E-NOTIFICATIONS Scan Code

ALUMINUM

SHAPE: CIRCLE
COLOR: BLACK
MT-05

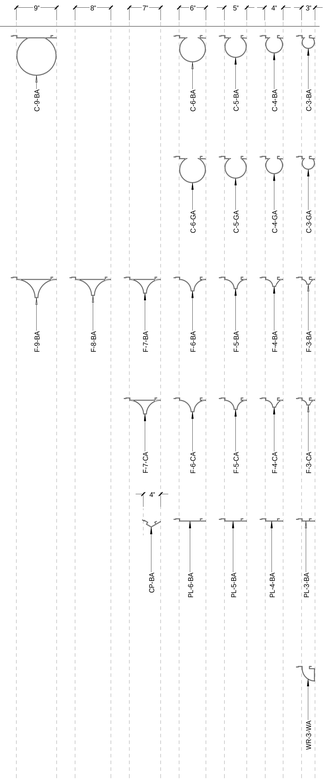
SHAPE: CIRCLE
COLOR: GOLD
MT-06

SHAPE: FLUTE
COLOR: BLACK
MT-05

SHAPE: FLUTE
COLOR: CINNAGOLD
MT-07

SHAPE: PLATE
COLOR: BLACK
MT-05

SHAPE: WAVE
RIGHT
COLOR: WHITE
MT-08



STAINLESS STEEL

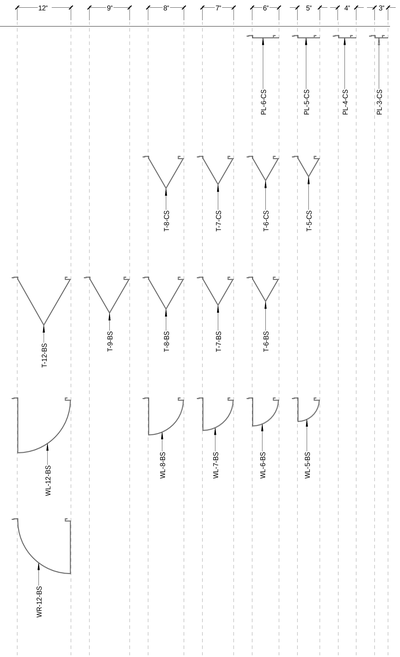
SHAPE: PLATE
COLOR: COPPER
MT-04

SHAPE: TRIANGLE
COLOR: COPPER
MT-04

SHAPE: TRIANGLE
COLOR: BLACK
MT-03

SHAPE: WAVE LEFT
COLOR: BLACK
MT-03

SHAPE: WAVE RIGHT
COLOR: BLACK
MT-03



FACADE PROFILE TYPES | 1" = 1'-0" | 3 / A-402.00

MATERIAL - COLOR	SHAPE	WIDTH	UNIT AREA* (ft²)	WT-01 PROFILE COUNT	WT-01 AREA (ft²)	WT-02 PROFILE COUNT	WT-02 AREA (ft²)	WT-03 PROFILE COUNT	WT-03 AREA (ft²)	TOTAL PROFILE COUNT	TOTAL AREA (ft²)
ALUMINUM - BLACK	CIRCLE	9"	28.5	696	19,853	57	1,626	63	1,797	816	23,276
		6"	17.7	114	2,017	3	53	32	566	149	2,636
		5"	14.2	121	1,715	12	170	25	354	158	2,239
		4"	10.7	144	1,544	3	32	1	11	148	1,587
		3"	7.4	138	1,017	9	66	13	96	160	1,180
	FLUTE	9"	13.6	61	832	3	41	20	273	84	1,146
		8"	12.1	1406	16,966	111	1,339	134	1,617	1651	19,922
		7"	10.5	644	6,762	51	536	32	336	727	7,634
		6"	8.9	1406	12,513	111	988	134	1,193	1651	14,694
		5"	7.4	247	1,828	18	133	29	215	294	2,176
		4"	5.8	270	1,566	9	52	4	23	283	1,641
		3"	4.2	138	581	9	38	13	55	160	674
	PLATE	6"	6.0	852	3,912	57	342	92	552	801	4,806
		5"	5.0	292	1,460	30	150	52	260	374	1,870
		4"	4.0	350	1,400	12	48	6	24	368	1,472
		3"	3.0	1040	3,120	75	225	83	249	1198	3,594
		CP	4.1	461	1,881	36	147	54	220	551	2,248
	BLACK COLORED ALUMINUM TOTAL AREA =				78,967		5,986		7,840		92,794
ALUMINUM - GOLD	CIRCLE	6"	17.7	1236	21,866	81	1,433	86	1,521	1403	24,820
		5"	14.2	537	7,610	27	383	7	99	571	8,091
		4"	10.7	463	4,964	42	450	72	772	577	6,186
		3"	7.4	440	3,244	45	332	84	619	569	4,195
	GOLD COLORED ALUMINUM TOTAL AREA =				37,683		2,598		3,012		43,293
ALUMINUM - CINNAGOLD	FLUTE	7"	10.5	291	3,054	27	283	33	346	351	3,684
		6"	8.9	300	2,678	21	187	19	170	340	3,035
		5"	7.4	320	2,353	9	66	7	51	336	2,471
		4"	5.8	257	1,486	30	174	67	388	354	2,047
		3"	4.2	236	994	9	38	72	303	317	1,336
	CINNAGOLD COLORED ALUMINUM TOTAL AREA =				10,566		748		1,258		12,573
ALUMINUM - WHITE	WAVE RIGHT	3"	7.9	1404	11,092	108	853	140	1,106	1652	13,051
	WHITE COLORED ALUMINUM TOTAL AREA =				11,092		853		1,106		13,051
STAINLESS STEEL - BLACK	WAVE LEFT	12"	31.7	733	23,207	51	1,615	60	1,900	844	26,721
		8"	20.2	104	2,105	15	304	7	142	126	2,551
		7"	17.7	103	1,820	9	159	6	106	118	2,086
		6"	15.1	416	6,283	27	408	49	740	492	7,431
		5"	12.5	120	1,504	3	38	4	50	127	1,592
	WAVE RIGHT	12"	31.7	291	9,225	27	856	33	1,046	351	11,127
	TRIANGLE	12"	23.8	1074	25,561	93	2,213	96	2,285	1263	30,059
		9"	17.8	222	3,952	27	481	45	801	294	5,234
		8"	15.8	239	3,777	21	332	41	648	301	4,757
		7"	13.8	275	3,796	18	248	4	55	297	4,099
		6"	11.8	605	7,141	33	389	36	425	674	7,955
	BLACK STAINLESS STEEL TOTAL AREA =				65,165		5,428		6,298		76,891
STAINLESS STEEL - COPPER	PLATE	6"	6.0	258	1,548	12	72	17	102	287	1,722
		5"	5.0	262	1,310	9	11,790	3	15	274	13,115
		4"	4.0	224	896	21	18,816	31	124	276	19,836
		3"	3.0	218	654	18	11,772	39	117	275	12,543
	TRIANGLE	8"	15.8	417	6,589	33	521	36	569	486	7,679
		7"	13.8	126	1,739	6	83	4	55	136	1,877
		6"	11.8	515	6,077	45	531	36	425	596	7,033
		5"	9.8	111	1,088	15	147	10	98	136	1,333
	COPPER STAINLESS STEEL TOTAL AREA =				19,901		43,732		1,505		65,138

*** - NOTE:** Unit area refers to unrolled exterior surface area of typical 12' tall profile.

SUMMARY:	WT-01		WT-02		WT-03		TOTAL	
MATERIAL - COLOR	AREA (ft²)	% of MTRL	AREA (ft²)	% of MTRL	AREA (ft²)	% of MTRL	AREA (ft²)	% of MTRL
ALUMINUM - BLACK	78,967	35.4%	5,986	10.1%	7,840	37.3%	92,794	30.6%
ALUMINUM - GOLD	37,683	16.9%	2,598	4.4%	3,012	14.3%	43,293	14.3%
ALUMINUM - CINNAGOLD	10,566	4.7%	748	1.3%	1,258	6.0%	12,573	4.1%
STAINLESS STEEL - BLACK	65,165	29.2%	5,428	9.1%	6,298	30.0%	76,891	25.3%
STAINLESS STEEL - COPPER	19,901	8.9%	43,732	73.7%	1,505	7.2%	65,138	21.4%
ALUMINUM - WHITE	11,092	5.0%	853	1.4%	1,106	5.3%	13,051	4.3%
TOTALS:	223,373		59,346		21,019		303,738	

PROFILE COUNTS & MATERIAL TAKEOFF

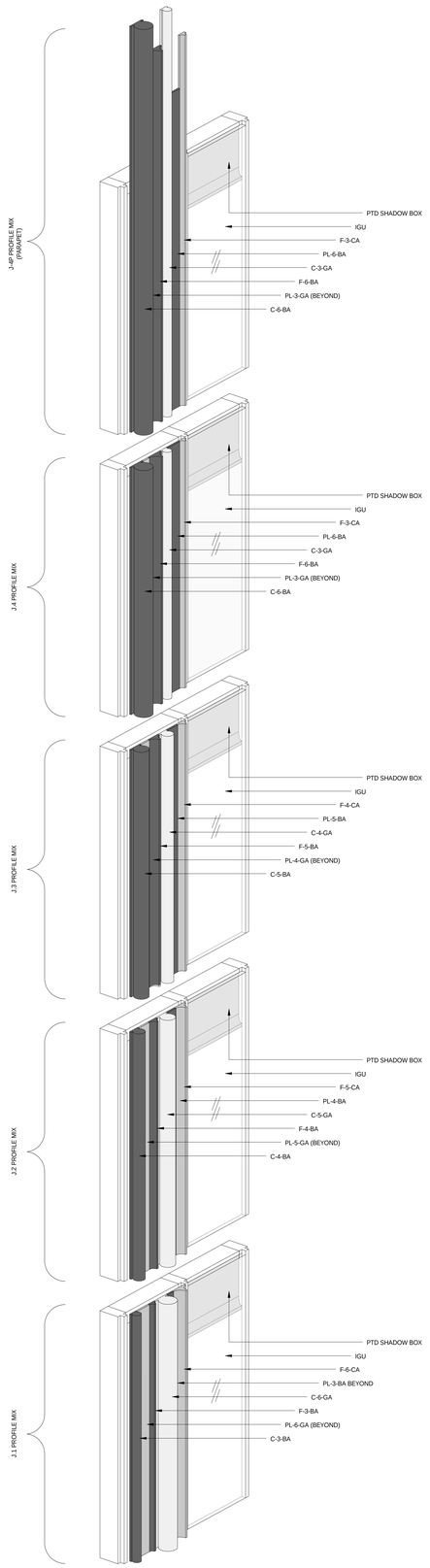
SHAPE
WIDTH
COLOR & MATERIAL

C-9-BS

SHAPE
C = CIRCLE
F = FLUTE
PL = PLATE
WL = WAVE LEFT
WR = WAVE RIGHT
T = TRIANGLE

COLOR & MATERIAL
BS = BLACK COLORED STAINLESS STEEL (MT-03)
CS = COPPER COLORED STAINLESS STEEL (MT-04)
BA = BLACK PAINTED ALUMINUM (MT-05)
GA = GOLD PAINTED ALUMINUM (MT-06)
CA = CINNAGOLD PAINTED ALUMINUM (MT-07)
WA = WHITE CERAMIC PAINTED ALUMINUM (MT-08)

PROFILE TAG KEY



NOTE: HEIGHT OF PANELS NOT TO SCALE

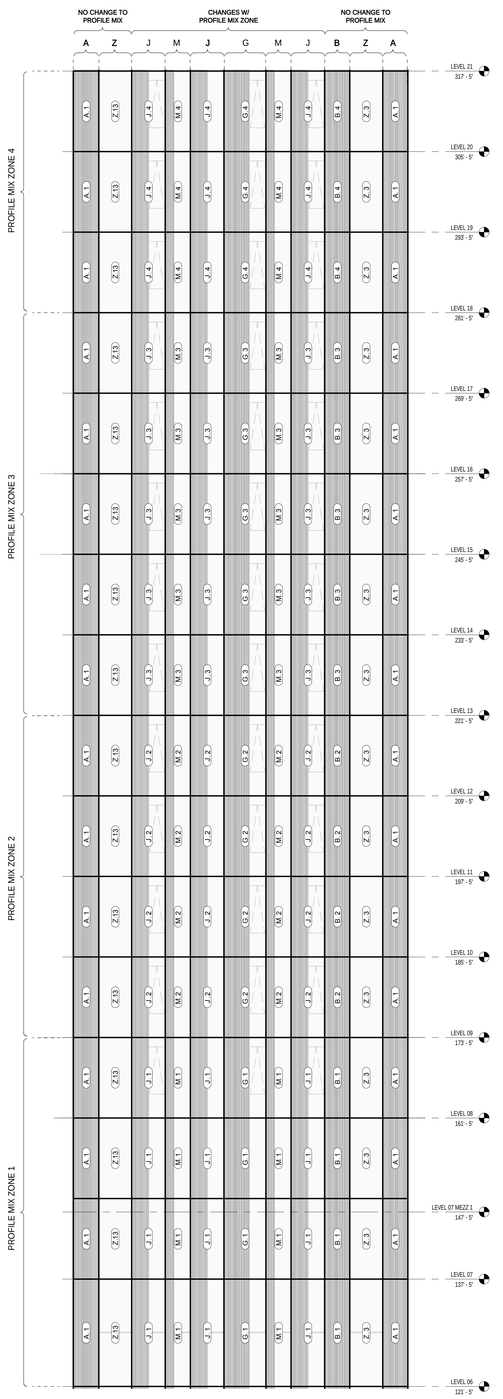
PROFILE MIX - BLEND SAMPLE

OPAQUE PANELS
PANEL TYPE
PROFILE MIX ZONE
C.2

GLASS ONLY PANELS
GLASS ONLY = 'Z' TYPE
WIDTH DESIGNATION (SEE TABLE AT 2 / A-470)
Z.4

PANEL ID TAG

PANEL TYPE: VERTICAL BANDS



PROFILE MIX ZONE: HORIZONTAL BANDS

NOTE: ALL QUANTITIES AND AREA TAKEOFFS ARE PRELIMINARY AND TO BE USED FOR INFORMATION ONLY. IF USED FOR PRICING PURPOSES ALL QUANTITIES ARE TO BE INDEPENDENTLY VERIFIED.

TOWER ELEVATION - PANEL MIX SAMPLE ELEVATION | 1/8" = 1'-0" | 2 / A-402.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 HERTI 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
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NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.755.6540

BOLD

LIGHTING
BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
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tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

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ENTEK ENGINNERING
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HACKENSACK, NJ 07601
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tel 212.271.7000

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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10003
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Latitude TRACE POOL DESIGN

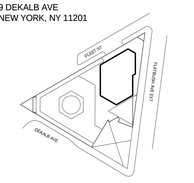
POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
07/01/16	FACADE BID PACKAGE			
02/05/16	100% SD REASSESSMENT			
3/13/15	100% SCHEMATIC DESIGN			

THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH MAY NOT BE USED FOR OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR COMPLETION OF THIS PROJECT BY OTHERS.

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DRAWING TITLE

WT-01, 02, & 03 - TOWER CURTAIN WALL - ARCHITECTURAL PROFILES

SEAL & SIGNATURE

LICENSED ARCHITECT JESSICA PASQUARELLI 026029 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-402.00

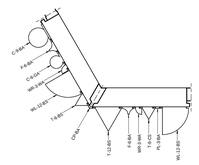
DEPT OF BLDGS 320914338 Job Number
E302134400S0 Scan Code

PANEL ID	MIX ID	WT-01 PANEL COUNT	WT-02 PANEL COUNT	WT-03 PANEL COUNT	TOTAL PANEL COUNT
A	1*	248	12	25	285
	2*	213	24	29	266
B	1	81	6	3	90
	2	88	3	3	94
	3	68	9	21	98
	4*	61	3	20	84
	5	162	18	5	185
	6	76	9	5	90
	7	160	12	4	176
	8	78	3	4	85
G	1	160	3	3	166
	2	166	6	2	174
	3	149	9	6	164
	4*	145	18	9	172
J	1	53	0	6	59
	2	43	0	0	43
	3	49	0	5	54
	4*	45	0	8	53
K	1	85	9	7	101
	2	101	3	1	105
	3	72	12	20	104
	4*	69	3	24	96
L	1	120	3	4	127
	2	118	6	2	126
	3	103	9	6	118
	4*	104	15	7	126
M	1	201	6	3	210
	2	187	15	1	203
	3	171	12	20	203
	4*	161	24	25	210
N	1	126	6	3	135
	2	126	6	4	136
	3	105	15	6	126
	4*	111	15	10	136
TOTAL OPAQUE PANELS =		4004	294	301	4599

*NOTE: INCLUDES PARAPET CONDITIONS

NOTE: 'P' PROFILE MIXES OCCUR AT PARAPET PANELS AND ARE CONSISTANT WITH PROFILE MIXES OF TYPE 4 WITH THE EXCEPTION THAT ARCHITECTURAL PROFILES EXTEND ABOVE THE CURTAINWALL PANEL TO VARYING HEIGHTS.

CURTAIN WALL PANEL COUNT - OPAQUE PANELS BY MIX | 1 : 3 | 1 / A-403.00



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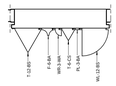

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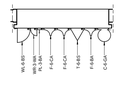

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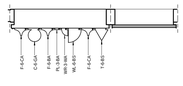

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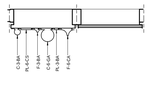

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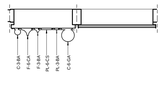

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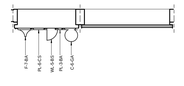

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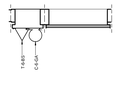

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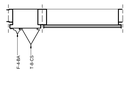

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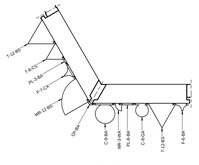

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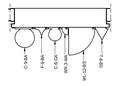

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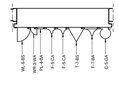

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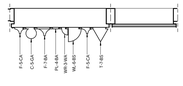

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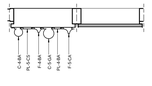

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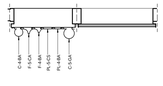

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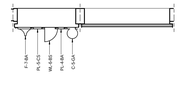

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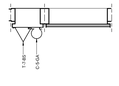

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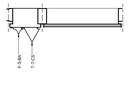

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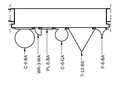

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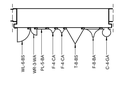

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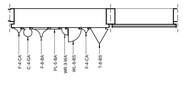

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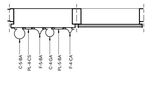

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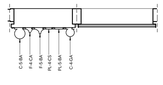

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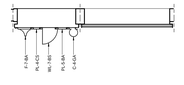

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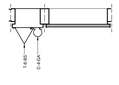

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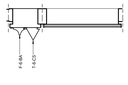

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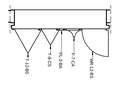

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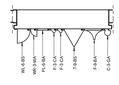

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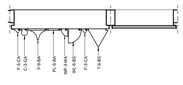

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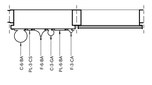

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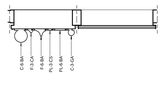

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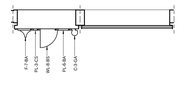

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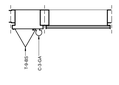

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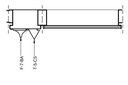

N.4

CURTAIN WALL PANELS - PROFILE MIX TYPES | 1/2" = 1'-0" | 2 / A-403.00

NOTE: ALL QUANTITIES AND AREA TAKEOFFS ARE PRELIMINARY AND TO BE USED FOR INFORMATION ONLY. IF USED FOR PRICING PURPOSES ALL QUANTITIES ARE TO BE INDEPENDENTLY VERIFIED.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
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NEW YORK, NY 10005
tel 212.530.9300

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NEW YORK, NY 10017
tel 212.687.8888

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NEW YORK, NY 10122
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AKRF
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NEW YORK, NY 10016
tel 646.388.9928

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VERTICAL TRANSPORTATION
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EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
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NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
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NEW YORK, NY 10012
tel 646.666.0846

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JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10005
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WHITE PLAINS, NY 10604
tel 914.495.4290

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22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201

SITE DIAGRAM

07/15/16 DOB FILING SET

07/01/16 FACADE BID PACKAGE

DATE ISSUE | NO. DATE REVISION

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DRAWING TITLE

WT-01, 02, & 03 - TOWER CURTAIN WALL - PANEL & PROFILE MIX SCHEDULE

SEAL & SIGNATURE

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

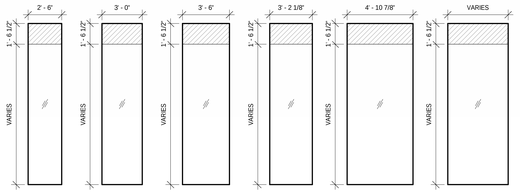
A-403.00

DEPT OF BLDGS 320014338 Job Number
E380038X1206 Scan Code

WT-01 WINDOW SCHEDULE

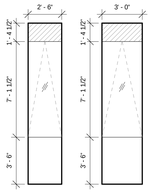
Panels modeled in Therm	SHGC	Panel area height [ft]	Panel area width [ft-in]	Panel area area [ft2]	Panel Final count** [-]	Therm Calculation Results: Mass Wall U-Value BTU/h-ft2-F	Metal Framed Intermediate Transom to Stack Joint U-Value BTU/h-ft2-F	Metal Framed Floor to Intermediate Transom U-Value BTU/h-ft2-F	Operable U-Value BTU/h-ft2-F
Fixed Glazing	0.27	12	2'6"	30.000	635	0.039	0.038	0.462	
		12	3'0"	36.000	296	0.037	0.035	0.428	
		12	3'6"	42.000	440	0.036	0.033	0.404	
		12	3'2 1/8"	38.125	128	0.037	0.034	0.419	
		12	4'10 7/8"	58.875	493	0.033	0.030	0.363	
		8	2'6"	20.000	134	0.039	0.038	0.471	
		8	3'0"	24.000	43	0.037	0.035	0.438	
		8	3'6"	28.000	32	0.036	0.033	0.414	
		8	3'2 1/8"	25.417	6	0.037	0.034	0.429	
		8	4'10 7/8"	39.250	43	0.033	0.030	0.374	
Operable	0.27	12	2'6"	30.000	597	0.039	0.041	0.528	0.464
		12	3'0"	36.000	469	0.037	0.039	0.497	0.438
				E Small Shadowbox @ Mass Wall		**0.037**			
				D Shadow Box (Metal Framed)			**0.036**		
				G Fenestration - Fixed Vision Glass				**0.438**	
				H Fenestration - Operable Window					**0.457**
Large Shadow Box	0.27	12	2'6"	30.000	269	0.030	0.042	0.041	
		12	3'0"	36.000	97	0.028	0.039	0.038	
		12	3'6"	42.000	53	0.027	0.037	0.036	
		12	3'2 1/8"	38.125	30	0.028	0.038	0.038	
		12	4'10 7/8"	58.875	71	0.025	0.033	0.033	
		8	2'6"	20.000	16	0.030	0.042	0.041	
		8	3'0"	24.000	22	0.028	0.039	0.038	
		8	3'6"	28.000	14	0.027	0.037	0.036	
		8	3'2 1/8"	25.417	10	0.028	0.038	0.037	
		8	4'10 7/8"	39.250	6	0.025	0.033	0.033	
				F Large Shadowbox @ Mass Wall		**0.037**	**0.039**		

***Panel modelization approximated*



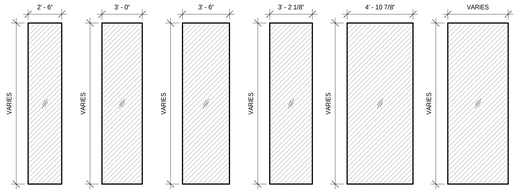
FIXED GLAZING

SCALE 1/4" = 1'0 "



OPERABLE

SCALE 1/4" = 1'0 "

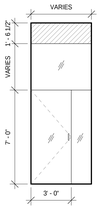


LARGE SHADOWBOX

SCALE 1/4" = 1'0 "

WT-01 -TERRACE DOOR SCHEDULE		
PANEL WIDTH	PANEL HEIGHT	COUNT
3' - 2 1/8"	12' - 0"	2
3' - 6"	12' - 0"	3
3' - 7 1/4"	12' - 0"	1
4' - 6"	12' - 0"	1
4' - 10 7/8"	12' - 0"	15
3' - 0"	16' - 0"	1
3' - 6"	16' - 0"	2
4' - 6"	16' - 0"	1
4' - 7 3/8"	16' - 0"	1
4' - 7 1/2"	16' - 0"	1
4' - 10 7/8"	16' - 0"	3

WT-01 GRAND TOTAL: 31



TERRACE DOOR

SCALE 1/4" = 1'0 "

WT-01 FENESTRATION U-VALUE SUMMARY				
ASSEMBLY	SHGC	AREA	U-VALUE	WEIGHTED U-VALUE
G. Fenestration - Fixed Vision Glass	0.27	91.110	0.438	0.442
H. Fenestration - Operable Window	0.27	21.318	0.457	0.457
I. Fenestration - Glass Operable Door	0.27	675	0.850	0.850

WT-02 WINDOW SCHEDULE

WT-02 FENESTRATION DOES NOT PROVIDE ANY THERMAL VALUE FOR OPEN WIND SPACE BEYOND

WT-02 - WINDOW SCHEDULE			
TYPE	H	W	COUNT
VISION	12' - 0"	2' - 6"	15
VISION	12' - 0"	2' - 8 1/2"	9
VISION	12' - 0"	3' - 0"	6
VISION	12' - 0"	3' - 2 1/8"	18
VISION	12' - 0"	3' - 6"	3
VISION	12' - 0"	4' - 6"	3
VISION	12' - 0"	4' - 10 7/8"	30

VISION: 84

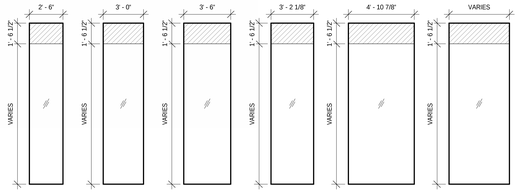
OPEN FLOOR - UPPER	12' - 0"	2' - 6"	52
OPEN FLOOR - UPPER	12' - 0"	2' - 8 1/2"	6
OPEN FLOOR - UPPER	12' - 0"	3' - 0"	42
OPEN FLOOR - UPPER	12' - 0"	3' - 2 1/8"	6
OPEN FLOOR - UPPER	12' - 0"	3' - 6"	20
OPEN FLOOR - UPPER	12' - 0"	3' - 7 1/4"	4
OPEN FLOOR - UPPER	12' - 0"	3' - 11 1/8"	6
OPEN FLOOR - UPPER	12' - 0"	4' - 10 7/8"	4

OPEN FLOOR - UPPER: 140

OPEN FLOOR - LOWER	12' - 0"	2' - 6"	26
OPEN FLOOR - LOWER	12' - 0"	2' - 8 1/2"	3
OPEN FLOOR - LOWER	12' - 0"	3' - 0"	21
OPEN FLOOR - LOWER	12' - 0"	3' - 2 1/8"	3
OPEN FLOOR - LOWER	12' - 0"	3' - 6"	10
OPEN FLOOR - LOWER	12' - 0"	3' - 7 1/4"	2
OPEN FLOOR - LOWER	12' - 0"	3' - 11 1/8"	3
OPEN FLOOR - LOWER	12' - 0"	4' - 10 7/8"	2

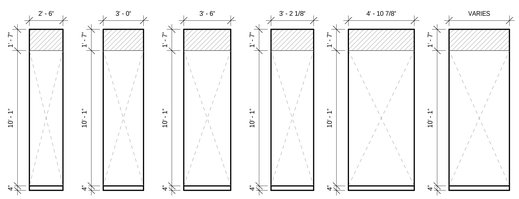
OPEN FLOOR - LOWER: 70

WT-02 GRAND TOTAL: 294



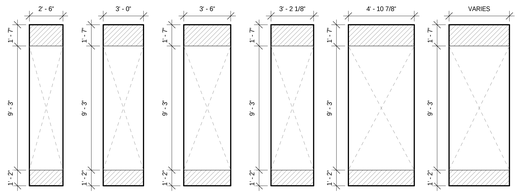
FIXED GLAZING - VISION

SCALE 1/4" = 1'0 "



OPEN FLOOR - UPPER

SCALE 1/4" = 1'0 "



OPEN FLOOR - LOWER

SCALE 1/4" = 1'0 "

WT-04A WINDOW SCHEDULE

Panels modeled in Therm	SHGC	Panel area height [ft]	Panel area width [ft-in]	Panel area area [ft2]	Panel Final count** [-]	Therm Calculation Results: Mass Wall U-Value BTU/h-ft2-F	Metal Framed Intermediate Transom to Stack Joint U-Value BTU/h-ft2-F	Metal Framed Floor to Intermediate Transom U-Value BTU/h-ft2-F
Fixed Glazing		14.083	(4'5") /2	31.101	42	0.053	0.031	0.441
		14.083	(5'1") /2	35.795	32	0.052	0.033	0.421
		13.000	4'5"	57.417	21	0.031	0.029	0.406
		13.000	5'1"	66.083	16	0.030	0.028	0.391
		13.000	4'0"	52.000	4	0.032	0.029	0.417
		14.083	4'0"	56.333	4	0.049	0.029	0.414
		18.000	4'5"	79.500	21	0.031	0.029	0.396
		18.000	5'1"	91.500	16	0.030	0.028	0.381
		18.000	4'0"	72.000	4	0.032	0.029	0.407
Fixed Glazing / Opaque		6.417	4'5"	28.340	21	0.031	0.049	0.037
		6.417	5'1"	32.618	6	0.030	0.049	0.037
		3.167	5'1"	16.097	10	0.030	0.049	0.056
		3.167	4'0"	12.667	4	0.032	0.049	0.056
		E Small Shadowbox @ Mass Wall / B Shadowbox @ Mass Wall				0.037		
		D Shadowbox (Metal Framed)					0.032	
		G Fenestration - Fixed Vision Glass						0.406

***Panel modelization approximated*

WT-04B WINDOW SCHEDULE

WT-04B WINDOW SCHEDULE				
Type Comments	Width	Height	Count	Area
FIXED VISION GLASS	0' - 3 3/4"	2' - 2 3/4"	1	1 SF
FIXED VISION GLASS	0' - 3 3/4"	9' - 0"	1	3 SF
FIXED VISION GLASS	0' - 3 3/4"	9' - 1 1/2"	1	3 SF
FIXED VISION GLASS	1' - 8 3/4"	2' - 2 3/4"	2	4 SF
FIXED VISION GLASS	1' - 8 3/4"	9' - 1 1/2"	2	16 SF
FIXED VISION GLASS	1' - 11 1/4"	1' - 11 1/2"	2	4 SF
FIXED VISION GLASS	1' - 11 1/4"	8' - 5 3/4"	2	16 SF
FIXED VISION GLASS	2' - 11 1/2"	2' - 2 3/4"	2	7 SF
FIXED VISION GLASS	2' - 11 1/2"	9' - 1 1/2"	2	27 SF
FIXED VISION GLASS	3' - 0"	2' - 2 3/4"	2	7 SF
FIXED VISION GLASS	3' - 0"	9' - 1 1/2"	2	27 SF
FIXED VISION GLASS	3' - 7 1/4"	6' - 6"	2	23 SF
FIXED VISION GLASS	3' - 8 1/2"	5' - 5 1/4"	2	20 SF
FIXED VISION GLASS	3' - 11"	6' - 9"	2	26 SF
FIXED VISION GLASS	5' - 1 1/2"	5' - 11 1/4"	1	30 SF
FIXED VISION GLASS	5' - 2 3/4"	9' - 10 3/4"	3	52 SF
FIXED VISION GLASS	5' - 2 3/4"	10' - 5 1/4"	3	55 SF
FIXED VISION GLASS	5' - 2 3/4"	11' - 0"	3	58 SF
FIXED VISION GLASS	5' - 2 3/4"	11' - 6 1/2"	3	61 SF
FIXED VISION GLASS	5' - 2 3/4"	12' - 1 1/4"	3	63 SF
FIXED VISION GLASS	5' - 2 3/4"	12' - 7"	1	66 SF
FIXED VISION GLASS	5' - 9"	9' - 4"	3	54 SF
FIXED VISION GLASS	5' - 9 1/4"	9' - 4"	2	54 SF
FIXED VISION GLASS	5' - 11 1/4"	5' - 5 1/4"	1	32 SF
FIXED VISION GLASS	6' - 1 3/4"	2' - 2 3/4"	2	14 SF
FIXED VISION GLASS	12' - 8 3/4"	1' - 11 1/2"	1	25 SF
FIXED VISION GLASS	13' - 10 3/4"	5' - 8 1/2"	1	79 SF

WT-04A AND WT-04B FENESTRATION U-VALUE SUMMARY						
WALL TYPE	ASSEMBLY	SHGC	WTD AVG SHGC	AREA	U-VALUE	WEIGHTED AVG U-VALUE
WT-04A	G. Fenestration - Fixed Vision Glass	0.54	0.55	6,498	0.406	0.389
WT-04B	G. Fenestration - Fixed Vision Glass	0.61		1,387	0.310	
WT-04B	I. Fenestration - Glass Operable Door	0.61		209	0.850	0.850

WT-05 WINDOW SCHEDULE

*Panels modeled in Therm**	Panel area height [ft]	Panel area width [ft-in]	Panel area area [ft2]	Panel count [-]	Metal Framed U-Value BTU/h-ft2-F
Fixed Glazing	15.3333	5'10"	89.4444	8	0.925
	15.3333	5'10"	89.4444	2	0.939
	12.4167	5'10"	72.4306	16	0.925
	12.4167	5'10"	72.4306	4	0.940
	12.4167	5'10"	72.4306	4	0.924
	5.0833	5'10"	29.6528	4	0.926
	12.4167	5'10"	72.4306	2	0.939
	9.3333	2'8"	24.8889	2	0.933
	9.3333	4'4"	40.4444	1	0.927
	G Fenestration - Fixed Vision Glass				0.928

WT-05 FENESTRATION U-VALUE SUMMARY			
ASSEMBLY	SHGC	AREA	U-VALUE
G. Fenestration - Fixed Vision Glass	0.58	2,952	0.928
I. Fenestration - Glass Operable Door	0.58	135	0.850

AIR LEAKAGE FOR ENERGY CODE COMPLIANCE – COMMERCIAL BUILDINGS

CODE	COMPONENT	AIR INFILTRATION RATE: CODE PRESCRIPTIVE	AIR INFILTRATION RATE: PROPOSED DESIGN VALUE	REFERENCE STANDARD
ASHRAE 5.4.3.2.	FENESTRATION AND DOORS: a. Glazed swinging entrance doors a. Revolving doors b. Curtain walls and storefront glazing d. Non-swinging opaque doors e. Windows	1.0 CFM/SQ.FT. @ 1.57 PSF 1.0 CFM/SQ.FT. @ 1.57 PSF 0.06 CFM/SQ.FT. @ 1.57 PSF 0.4 CFM/SQ.FT. @ 1.57 PSF 0.2 CFM/SQ.FT. @ 1.57 PSF	0.3 CFM/SQ.FT. @ 1.57 PSF 1.0 CFM/SQ.FT. @ 1.57 PSF 0.06 CFM/SQ.FT. @ 6.24 PSF 0.3 CFM/SQ.FT. @ 1.57 PSF 0.1 CFM/SQ.FT. @ 6.24 PSF	AAMA/WDMA/CSA 101/I.S.2/A440, NFRC 400, or ASTM E 283
ASHRAE 5.4.3.1.2, 5.4.3.1.3.	CONTINUOUS AIR BARRIER: Except in unheated structures and as permitted by this section, a continuous air barrier shall be installed; sealing all seams, openings, and penetrations of the building and shall be sealed with caulking materials or closed with gasketing systems compatible with the construction materials and location. Joints and seams shall be sealed in the same manner or taped or covered with a moisture vapor permeable wrapping material. Sealing materials spanning joints between construction materials shall allow for expansion and contraction of the construction materials. Such air barriers shall have all the following characteristics: 1. Continuous throughout the envelope with all joints and seams sealed and with sealed connections between all transitions in planes and changes in materials and at all penetrations. 2. Joined and sealed in a flexible manner to the air barrier component of adjacent assemblies, allowing for the relative movement of these assemblies and components. 3. Installed in accordance with the manufacturer's instructions and in such a manner as to achieve the performance requirements. 4. Penetrations of the continuous air barrier shall be made in a way such that the integrity of the continuous air barrier is maintained.		
	Materials	0.004 CFM/SQ.FT. @ 1.57 PSF	0.004 CFM/SQ.FT. @ 1.57 PSF	ASTM E 2178
	Assemblies	0.04 CFM/SQ.FT. @ 1.57 PSF	0.02 CFM/SQ.FT. @ 6.24 PSF	ASTM E 2357, ASTM E 1677, ASTM E 1680 or ASTM E 283

AIR SEALING NOTES:

1. ASHRAE 90.1-2010 IS THE CODE STANDARD APPLIED, PURSUANT TO THE 2014 NEW YORK CITY ENERGY CONSERVATION CODE.

2. ALL COMPONENT BUILDING ENVELOPE ASSEMBLIES HAVE BEEN ANALYZED, AND SPACES DETAILED ACCORDINGLY.

3. AIR LEAKAGE OF WINDOW/DOOR ASSEMBLIES SHALL BE DETERMINED IN ACCORDANCE WITH AAMA/WDMA/CSA 101/I.S.2/A440, OR NFRC 400 BY THE MANUFACTURER AND SHALL NOT EXCEED 0.3CFM PER SQUARE FOOT (1.5 L/S/M2), AND SWINGING DOORS NO MORE THAN 0.5 CFM PER SQUARE FOOT (2.6 L/S M2).

4. CURTAIN WALL, STOREFRONT GLAZING AND COMMERCIAL-GLAZED SWINGING ENTRANCE DOORS AND REVOLVING DOORS SHALL BE TESTED FOR A LEAKAGE AT 1.57 POUNDS PER SQUARE FOOT (PSF) (75 PA) IN ACCORDANCE WITH ASTM E283. FOR CURTAIN WALLS AND STOREFRONT GLAZING , THE MAX. AIR LEAKAGE RATE SHALL BE 0.6 CUBIC FOOT PER MINUTE PER SQUARE FOOT (CFM/FT2)(2.12 M3) X M2) OF FENESTRATION AREA. FOR COMMERCIAL GLAZED SWINGING ENTRANCE DOORS AND REVOLVING DOORS, THE MAXIMUM AIR LEAKAGE RATE SHALL BE 1.00 CFM/FT2 (18.3 M3/H X M2) OF DOOR AREA WHEN TESTED IN ACCORDANCE WITH ASTM E 283.

5. A DOOR THAT SEPARATES CONDITIONED SPACE FROM THE EXTERIOR SHALL BE PROTECTED WITH ENCLOSED VESTIBULE, WITH ALL DOORS OPENING INTO AND OUT OF THE VESTIBULE EQUIPPED WITH SELF-CLOSING DEVICES. VESTIBULES SHALL BE DESIGNED SO THAT IN PASSING THROUGH THE VESTIBULE IT IS NOT NECESSARY FOR THE INTERIOR AND EXTERIOR DOORS TO OPEN AT THE SAME TIME. NOTE THAT THE RESIDENTIAL LOBBY BUILDING ENTRANCE IS LESS THAN 1000SF IN AREA PER EXCEPTION F AND RETAIL SPACE PROPOSED IS LESS THAN 3000SF IN AREA PER EXCEPTION G OF 5.4.3.4 THEREFORE NO VESTIBULES ARE PROPOSED.

6. STAIR AND ELEVATOR SHAFT VENTS AND OTHER OUTDOOR AIR INTAKES AND EXHAUST OPENINGS INTEGRAL TO THE BUILDING ENVELOPE SHALL BE EQUIPPED WITH NOT LESS THAN A CLASS 1 MOTORIZED, LEAKAGE-RATED DAMPER WITH A MAXIMUM LEAKAGE RATE OF 4 CFM PER SQUARE FOOT (6.J/LS M2) AT 1.0 INCH WATER GAUGE (W.G) (1250 PA) WHEN TESTED IN ACCORDANCE WITH AMCA 500D.

7. RECESSED LUMINAIRES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO LIMIT A LEAKAGE BETWEEN CONDITIONED AND UNCONDITIONED SPACES. ALL RECESSED LUMINAIRES SHALL BE IC-RATED AND LABELED AS MEETING ASTM E 283 WHEN TESTED AT 1.57 PSF (7PA) PRESSURE DIFFERENTIAL WITH NO MORE THAN 2.0 CFM (0.944 L/S) OF AIR MOVEMENT FROM THE CONDITIONED SPACE TO THE CEILING CAVITY. ALL RECESSED LUMINAIRES SHALL BE SEALED WITH A GASKET OR CAULK BETWEEN THE HOUSING AND INTERIOR WALL OR CEILING COVERING.

8. ALL EXTERIOR ENVELOPE COMPONENT ASSEMBLY DETAILS SHOWN ON EN- SHEETS ARE FOR THE PURPOSES OF DETAILING THERMAL PERFORMANCE ONLY. NO WATER-PROOFING, SOUND-ATTENUATION, OR STRUCTURAL CAPACITY IS REPRESENTED, AND CANNOT BE CONSTRUED AS SUCH.

9. FINAL ASSEMBLY GLASS AND FRAME U-VALUES DETERMINED BY THERM ANALYSIS

NOTE: ALL QUANTITIES AND AREA TAKEOFFS ARE PRELIMINARY AND TO BE USED FOR INFORMATION ONLY. IF USED FOR PRICING PURPOSES ALL QUANTITIES ARE TO BE INDEPENDENTLY VERIFIED.

AIR SEALING COMPLIANCE

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 117H FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.6888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6560

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237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEX ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEX ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2925

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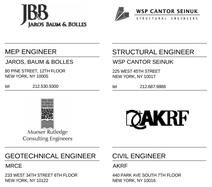
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16	DOB FILING SET
07/01/16	FACADE BID PACKAGE

DATE ISSUE NO. DATE REVISION

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DRAWING TITLE

WT-01, 02 & 03 - TOWER CURTAIN WALL - DOOR AND WINDOW SCHEDULE

SEAL & SIGNATURE

REGISTERED ARCHITECT ROBERT A. PASSERINI 026955 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

A-404.00

DEPT OF BLDGS 320014338 Job Number
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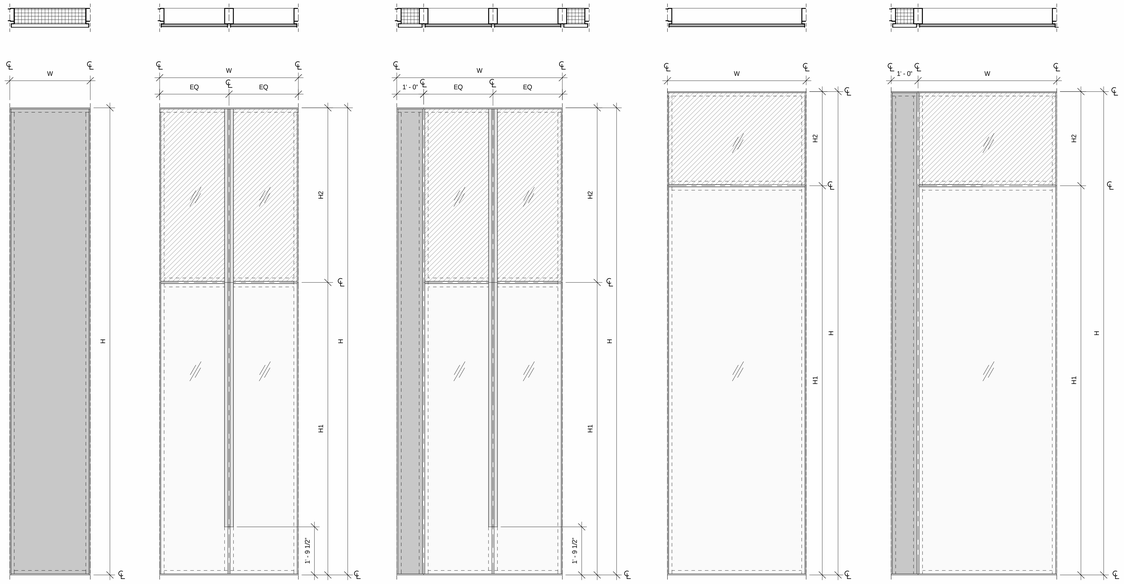

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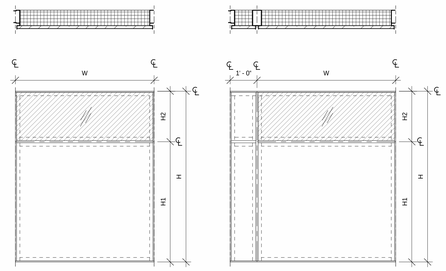


X Y

PANEL TYPE	PANEL SUBTYPE	DIMENSION W	H	H1	H2	PANEL COUNT
P	1	3' - 0"	17' - 4 3/4"	-	-	10
	2	3' - 0"	13' - 0"	-	-	10
	3	3' - 0"	18' - 0"	-	-	10
	4	3' - 3"	17' - 4 3/4"	-	-	2
	5	3' - 3"	13' - 0"	-	-	2
	6	3' - 3"	18' - 0"	-	-	2
	7	4' - 0"	17' - 4 3/4"	-	-	4
	8	4' - 0"	13' - 0"	-	-	4
	9	4' - 0"	18' - 0"	-	-	4
	10	3' - 0"	6' - 4 1/2"	-	-	8
	11	3' - 0"	3' - 2 1/2"	-	-	2
	12	3' - 3"	6' - 4 1/2"	-	-	2
	13	4' - 0"	6' - 4 1/2"	-	-	4
Q	1	3' - 10 1/2"	17' - 4 3/4"	10' - 10 3/4"	6' - 6 1/4"	2
	2	4' - 0 1/2"	17' - 4 3/4"	10' - 10 3/4"	6' - 6 1/4"	1
	3	4' - 5"	17' - 4 3/4"	10' - 10 3/4"	6' - 6 1/4"	1
	4	4' - 7 1/2"	17' - 4 3/4"	10' - 10 3/4"	6' - 6 1/4"	6
	5	5' - 2"	17' - 4 3/4"	10' - 10 3/4"	6' - 6 1/4"	2
R	1	4' - 10 1/2"	17' - 4 3/4"	10' - 10 3/4"	6' - 6 1/4"	4
	2	5' - 0 1/2"	17' - 4 3/4"	10' - 10 3/4"	6' - 6 1/4"	3
	3	5' - 5"	17' - 4 3/4"	10' - 10 3/4"	6' - 6 1/4"	2
	4	5' - 7 1/2"	17' - 4 3/4"	10' - 10 3/4"	6' - 6 1/4"	12
	5	6' - 2"	17' - 4 3/4"	10' - 10 3/4"	6' - 6 1/4"	4
S	1	3' - 10 1/2"	13' - 0"	9' - 9 1/2"	3' - 2 1/2"	2
	2	3' - 10 1/2"	18' - 0"	14' - 9 1/2"	3' - 2 1/2"	2
	3	4' - 0 1/2"	13' - 0"	9' - 9 1/2"	3' - 2 1/2"	5
	4	4' - 0 1/2"	18' - 0"	14' - 9 1/2"	3' - 2 1/2"	5
	5	4' - 5"	13' - 0"	9' - 9 1/2"	3' - 2 1/2"	1
	6	4' - 5"	18' - 0"	14' - 9 1/2"	3' - 2 1/2"	1
	7	4' - 7 1/2"	13' - 0"	9' - 9 1/2"	3' - 2 1/2"	6
	8	4' - 7 1/2"	18' - 0"	14' - 9 1/2"	3' - 2 1/2"	6
	9	5' - 2"	13' - 0"	9' - 9 1/2"	3' - 2 1/2"	2
	10	5' - 2"	18' - 0"	14' - 9 1/2"	3' - 2 1/2"	2
	11	4' - 0 1/2"	17' - 4 3/4"	14' - 9 1/2"	3' - 2 1/2"	4
T	1	4' - 10 1/2"	13' - 0"	9' - 9 1/2"	3' - 2 1/2"	4
	2	4' - 10 1/2"	18' - 0"	14' - 9 1/2"	3' - 2 1/2"	4
	3	5' - 0 1/2"	13' - 0"	9' - 9 1/2"	3' - 2 1/2"	3
	4	5' - 0 1/2"	18' - 0"	14' - 9 1/2"	3' - 2 1/2"	3
	5	5' - 5"	13' - 0"	9' - 9 1/2"	3' - 2 1/2"	2
	6	5' - 5"	18' - 0"	14' - 9 1/2"	3' - 2 1/2"	2
	7	5' - 7 1/2"	13' - 0"	9' - 9 1/2"	3' - 2 1/2"	12
	8	5' - 7 1/2"	18' - 0"	14' - 9 1/2"	3' - 2 1/2"	12
	9	6' - 2"	13' - 0"	9' - 9 1/2"	3' - 2 1/2"	4
	10	6' - 2"	18' - 0"	14' - 9 1/2"	3' - 2 1/2"	4
X	1	3' - 10 1/2"	3' - 2 1/2"	1' - 4"	1' - 10 1/2"	2
	2	4' - 0 1/2"	3' - 2 1/2"	1' - 4"	1' - 10 1/2"	1
	3	4' - 5"	6' - 4 1/2"	4' - 5 3/4"	1' - 10 1/2"	1
	4	4' - 7 1/2"	6' - 4 1/2"	4' - 5 3/4"	1' - 10 1/2"	6
	5	5' - 2"	6' - 4 1/2"	4' - 5 3/4"	1' - 10 1/2"	2
	6	4' - 0 1/2"	6' - 4 1/2"	4' - 5 3/4"	1' - 10 1/2"	4
Y	1	4' - 10 1/2"	3' - 2 1/2"	1' - 4"	1' - 10 1/2"	4
	2	5' - 0 1/2"	3' - 2 1/2"	1' - 4"	1' - 10 1/2"	3
	3	5' - 5"	6' - 4 1/2"	4' - 5 3/4"	1' - 10 1/2"	2
	4	5' - 7 1/2"	6' - 4 1/2"	4' - 5 3/4"	1' - 10 1/2"	12
	5	6' - 2"	6' - 4 1/2"	4' - 5 3/4"	1' - 10 1/2"	4

TOTAL PODIUM CURTAIN WALL PANELS = 228

NOTE: ALL QUANTITIES AND AREA TAKEOFFS ARE PRELIMINARY AND TO BE USED FOR INFORMATION ONLY. IF USED FOR PRICING PURPOSES ALL QUANTITIES ARE TO BE INDEPENDENTLY VERIFIED.

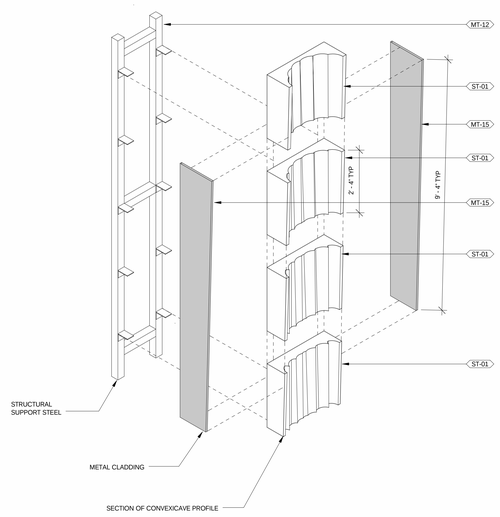
PODIUM CURTAIN WALL PANEL TYPES | 1/2" = 1'-0" | 4 / A-405.00

PODIUM ARCH. PROFILE TYPE	MATERIAL	HEIGHT	COUNT
CONVEXICAVE PROFILES	ST-01	RANGE: 63' - 11" TO 67' - 2"	24
CONVEXICAVE STONE BASE	ST-02	APPROX: 2' - 2", TYP.	24
STONE FINS - PARTIAL HEIGHT*	ST-01	50' - 3", TYP.	24
STONE FINS - FULL HEIGHT*	ST-01	RANGE: 63' - 11" TO 67' - 2"	16
METAL FINS	MT-15	15' - 7", TYP.	37

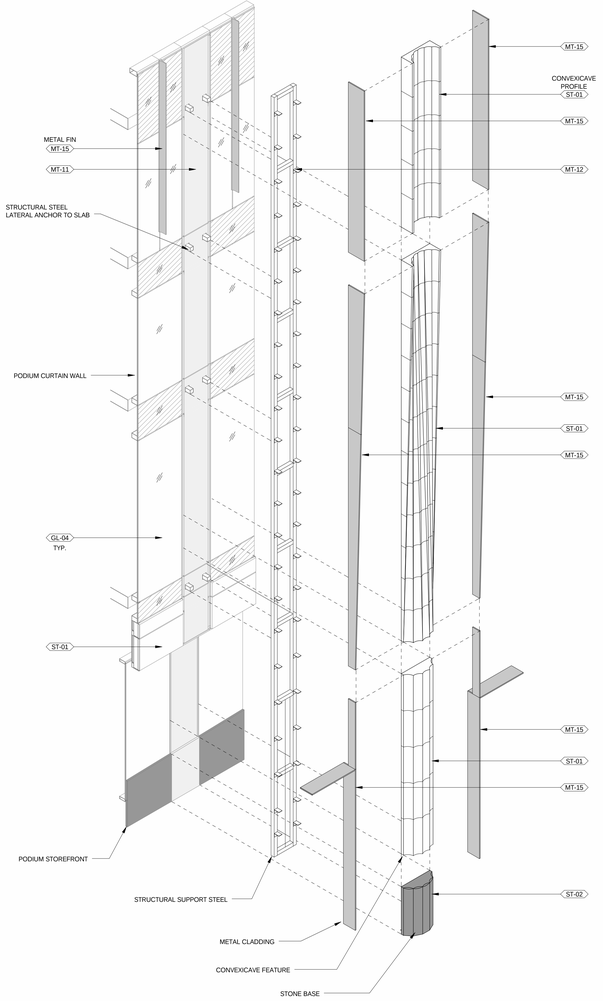
*** - NOTE:** PARTIAL HEIGHT STONE FINS ARE LOCATED ON THE PODIUM CURTAIN WALL ABOVE THE STOREFRONT EXTENDING TO THE TOP OF THE PARAPET. FULL HEIGHT STONE FINS EXTEND FROM THE BASE OF THE STOREFRONT TO THE PODIUM PARAPET AND ARE LOCATED IN PAIRS, BETWEEN CONVEXICAVE PROFILES.

PODIUM ARCH. PROFILE TYPE	MATERIAL	PROJECTED SURFACE AREA TO BE CLAD
METAL PROFILES AT WT-04 RESIDENTIAL ENTRY	MT-03	7641 sq ft

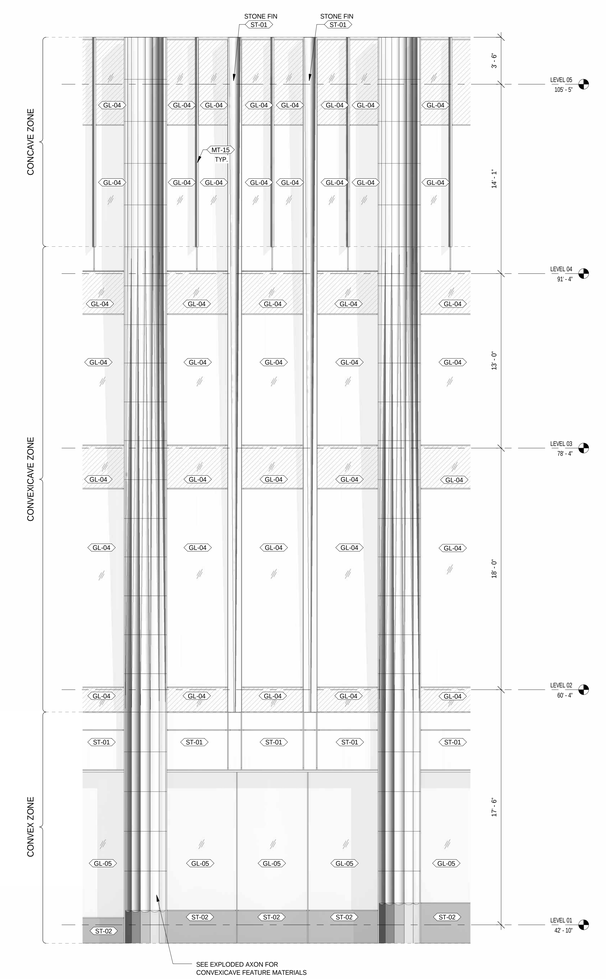
CONVEXICAVE PROFILE AND STONE FIN COUNT



CONVEXICAVE PANEL EXPLODED AXON | 1/2" = 1'-0" | 3 / A-405.00



CONVEXICAVE FEATURE EXPLODED AXON | 1/4" = 1'-0" | 2 / A-405.00



SAMPLE PODIUM FACADE FEATURE ELEVATION | 1/4" = 1'-0" | 1 / A-405.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
534 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6560

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tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
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NEW YORK, NY 10005
tel 212.334.2025

Lothrop TRACE POOL DESIGN

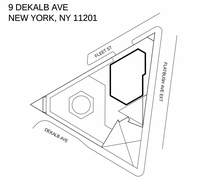
POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET
07/01/16 FACADE BID PACKAGE

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

WT-04 - PODIUM ENCLOSURE - OVERVIEW

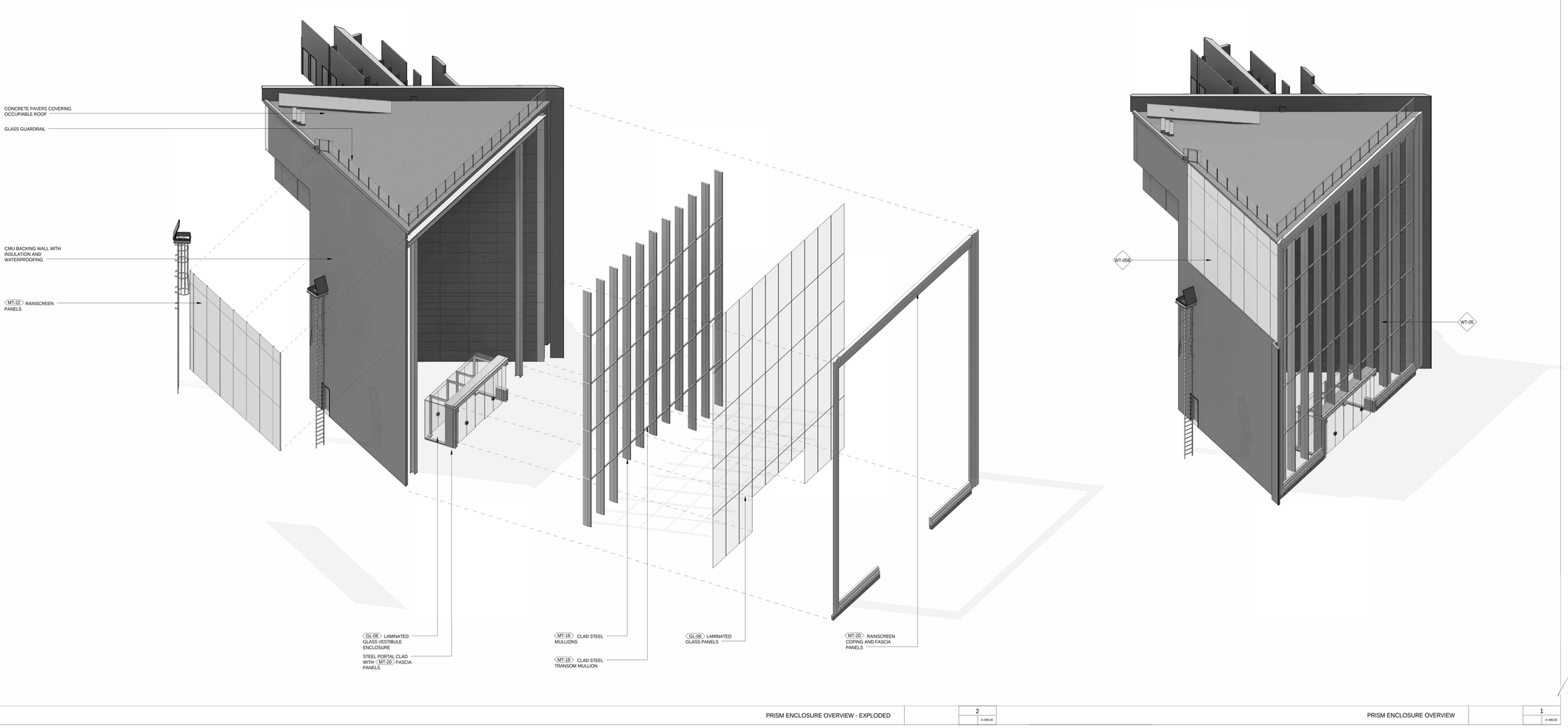
SEAL & SIGNATURE

REGISTERED ARCHITECT JESSICA A. PASQUARELLI 026026 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-405.00

DEPT OF BLDGS 320914338 Job Number

8317263286 Scan Code



PRISM ENCLOSURE OVERVIEW - EXPLODED

2 A-406.00

PRISM ENCLOSURE OVERVIEW

1 A-406.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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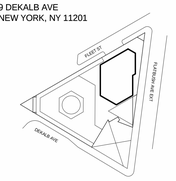

SITE DIAGRAM

07/15/16 DOB FILING SET

07/01/16 FACADE BID PACKAGE

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

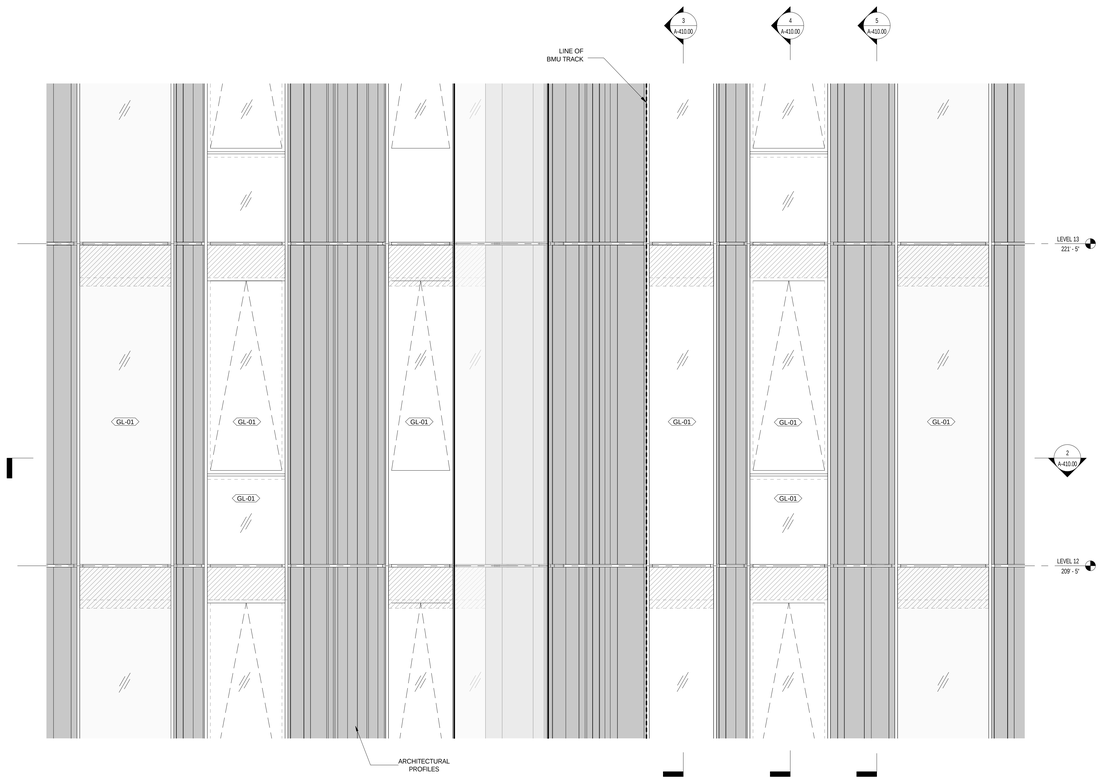
WT-05 - PRISM ENCLOSURE OVERVIEW

SEAL & SIGNATURE

REGISTERED ARCHITECT JESSICA A. PASQUARELLI 026929 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-406.00

DEPT OF BLDGS 320914338 Job Number
E 5995585823 Scan Code



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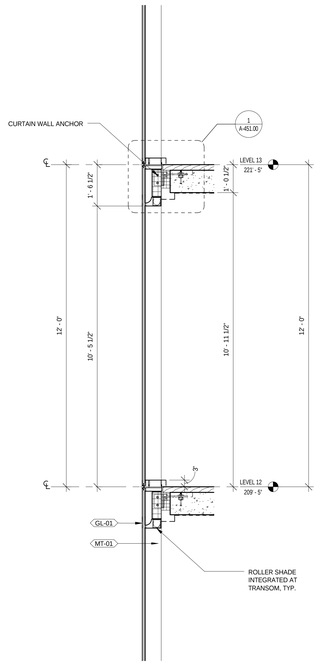
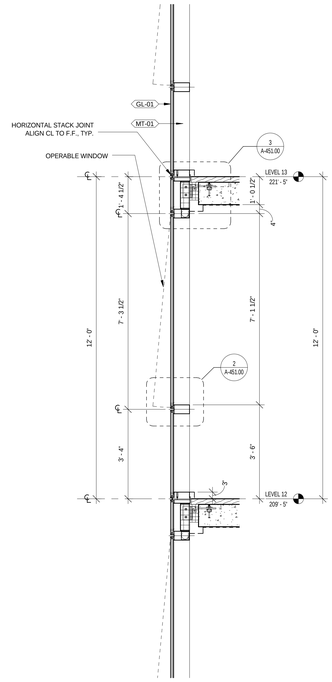
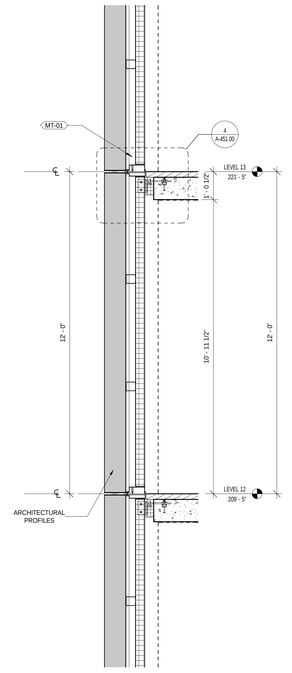
WT-01 ELEVATION | 1/2" = 1'-0" | 1 / A-410.00



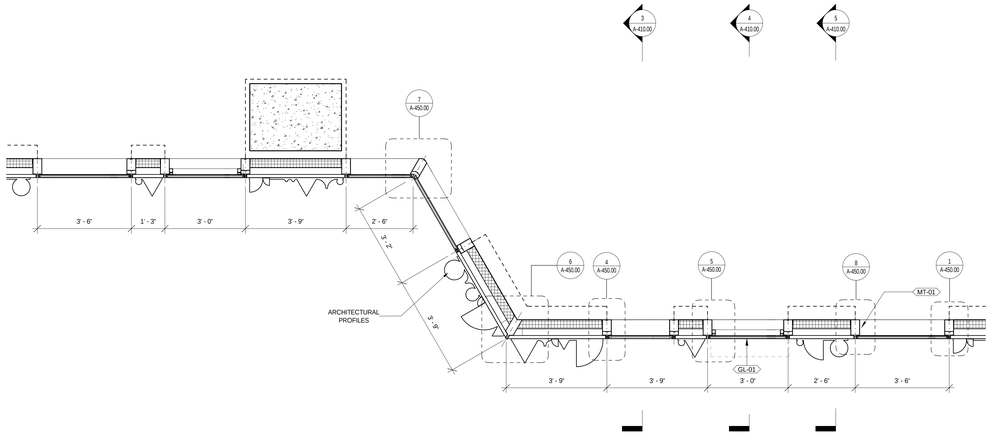
WT-01 SECTION AT FIXED GLASS UNITS | 1/2" = 1'-0" | 3 / A-410.00



WT-01 SECTION AT OPERABLE GLASS UNITS | 1/2" = 1'-0" | 4 / A-410.00



WT-01 SECTION AT OPAQUE UNITS | 1/2" = 1'-0" | 5 / A-410.00



WT-01 - PLAN | 1/2" = 1'-0" | 2 / A-410.00

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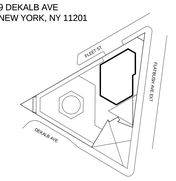

SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
07/01/16	FACADE BID PACKAGE
02/05/16	100% SD REASSESSMENT
3/13/15	100% SCHEMATIC DESIGN

NO.	DATE	REVISION

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DRAWING TITLE

WT-01 - TOWER CURTAIN WALL

SEAL & SIGNATURE

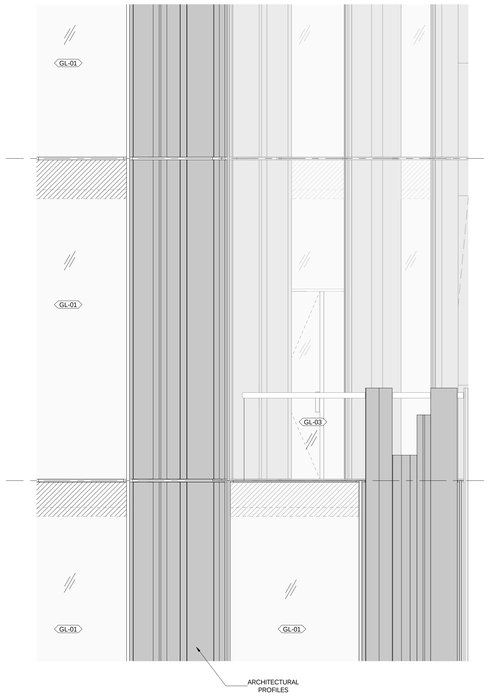
REGISTERED ARCHITECT JESSE A. PASQUARELLI 026292 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

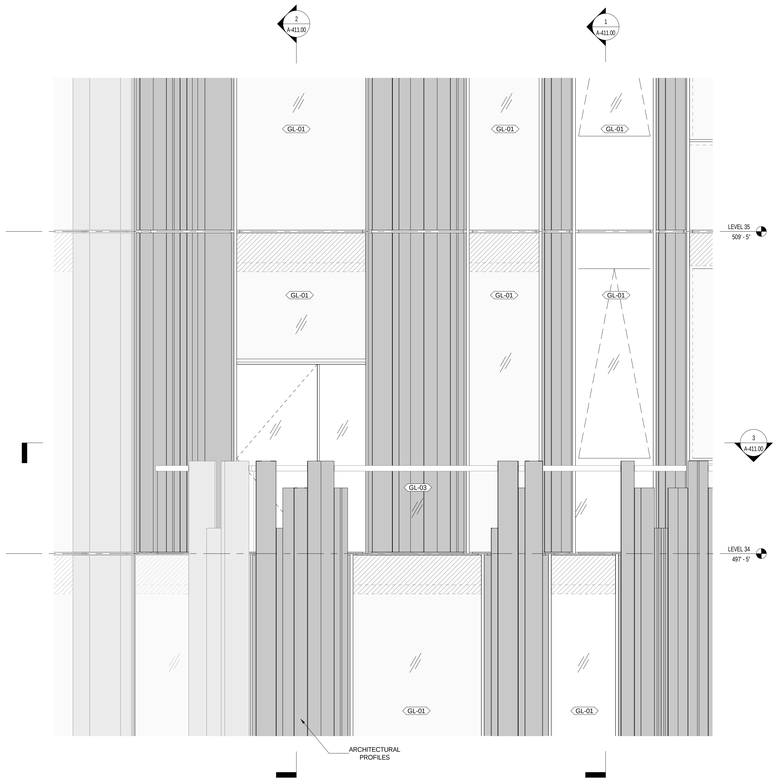
DRAWING NUMBER

A-410.00

DEPT OF BLDGS 320014338 Job Number
E320014338 Scan Code



WT-01 ELEVATION AT TERRACE B | 1/2" = 1'-0" | 5 | A-411.00



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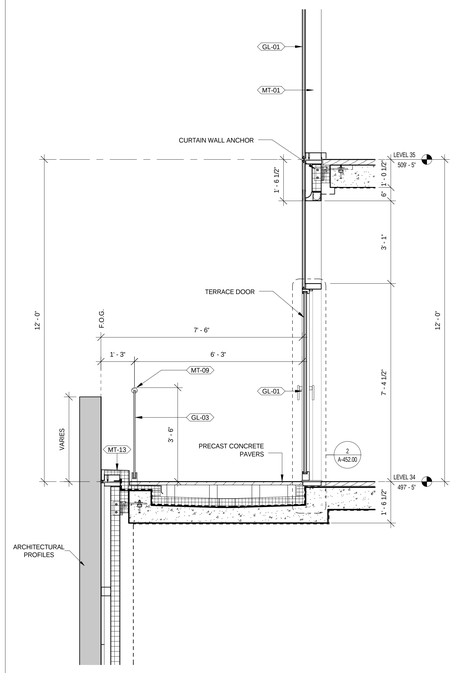
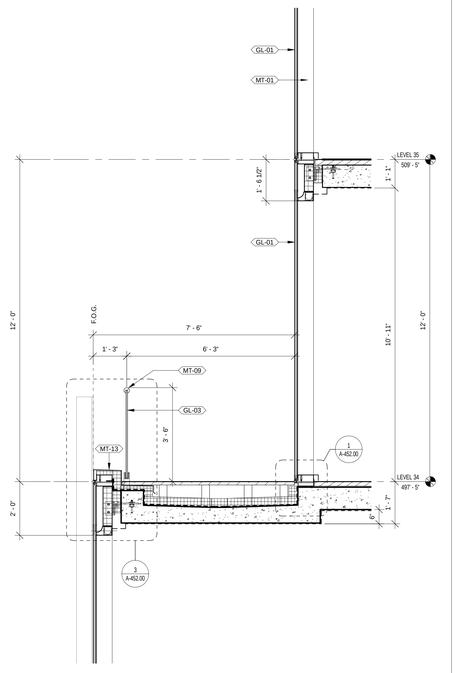
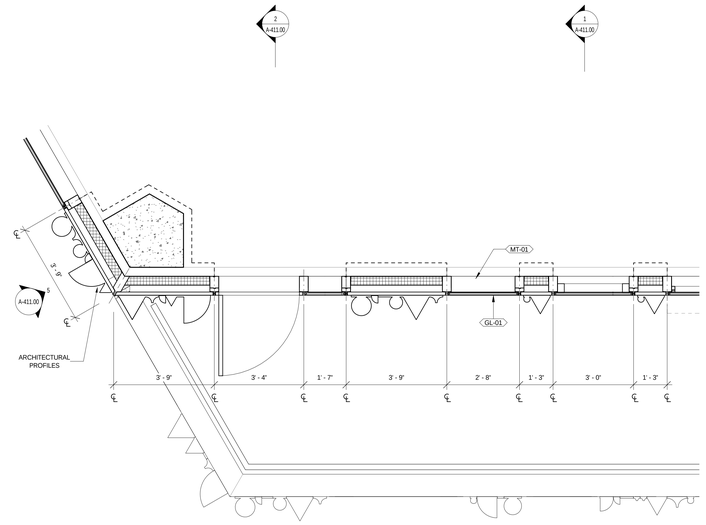
WT-01 ELEVATION AT TERRACE A | 1/2" = 1'-0" | 4 | A-411.00



WT-01 SECTION AT TERRACE | 1/2" = 1'-0" | 2 | A-411.00



WT-01 SECTION AT TERRACE DOOR | 1/2" = 1'-0" | 1 | A-411.00



WT-01 PLAN AT TERRACE | 1/2" = 1'-0" | 3 | A-411.00

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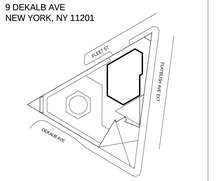

SITE DIAGRAM

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07/01/16	FACADE BID PACKAGE
02/05/16	100% SD REASSESSMENT
3/13/15	100% SCHEMATIC DESIGN

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DRAWING TITLE

WT-01 - TOWER CURTAIN WALL - AT TERRACE

SEAL & SIGNATURE

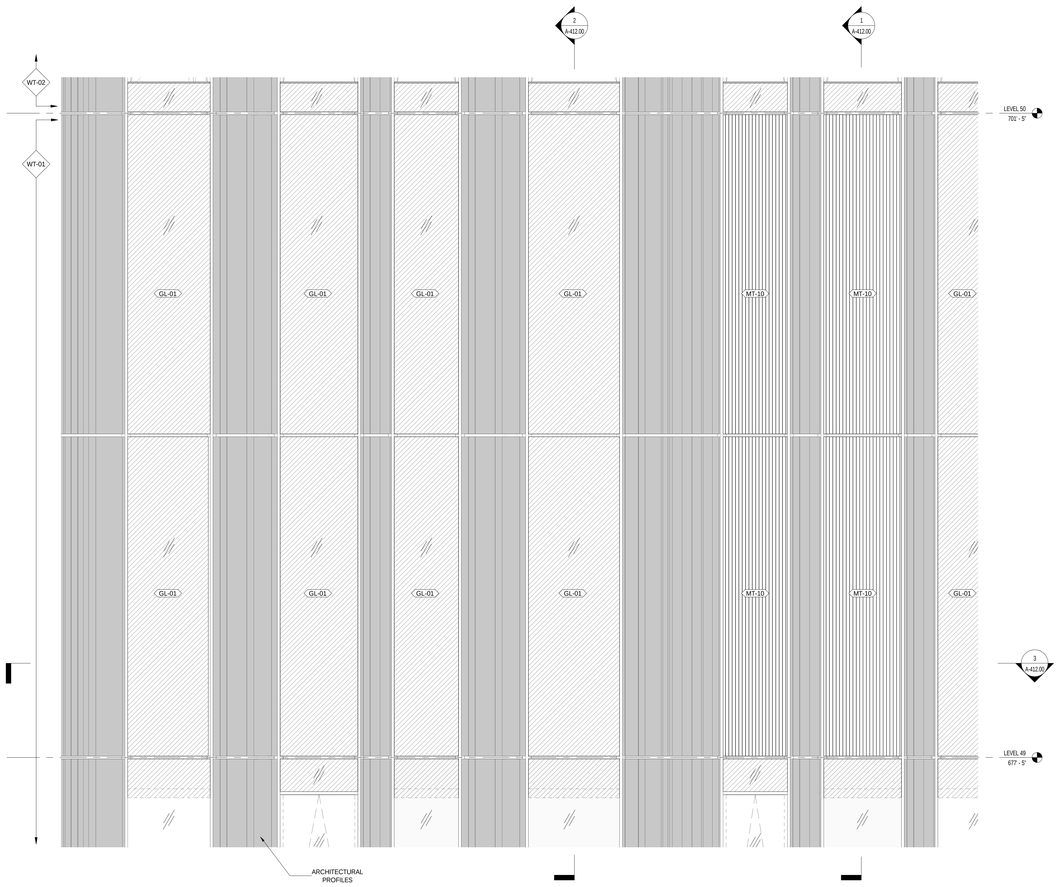
REGISTERED ARCHITECT JOSEPH A. PASQUARELLI 026292 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

DRAWING NUMBER

A-411.00

DEPT OF BLDGS 320914338 Job Number
E 5666402776 Scan Code



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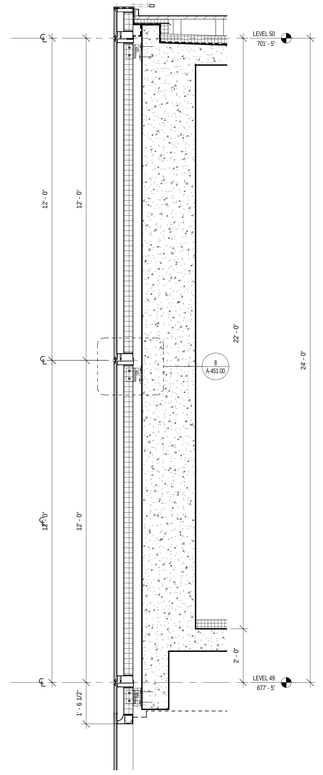
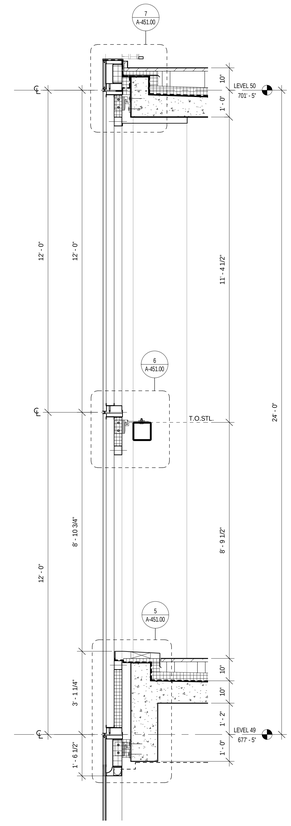
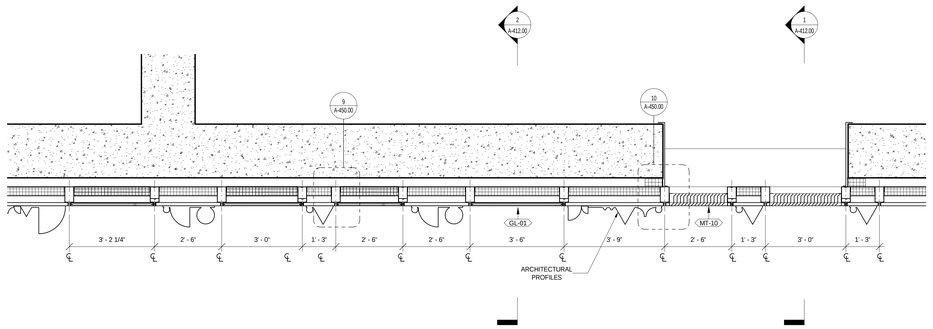
WT-01 ELEVATION AT MECHANICAL FLOOR | 1/2" = 1'-0" | 4 | A-412.00



WT-01 SECTION AT CONCRETE WALL | 1/2" = 1'-0" | 2 | A-412.00



WT-01 SECTION AT MECHANICAL LOUVER | 1/2" = 1'-0" | 1 | A-412.00



WT-01 PLAN AT MECHANICAL FLOOR | 1/2" = 1'-0" | 3 | A-412.00

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JDS DEVELOPMENT GROUP
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tel 646.625.3640

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ARCHITECT
SHoP ARCHITECTS, P.C.
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NEW YORK, NY 10279
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60 PINE STREET, 10TH FLOOR
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233 WEST 39TH STREET 6TH FLOOR
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3/13/15	100% SCHEMATIC DESIGN			

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DRAWING TITLE

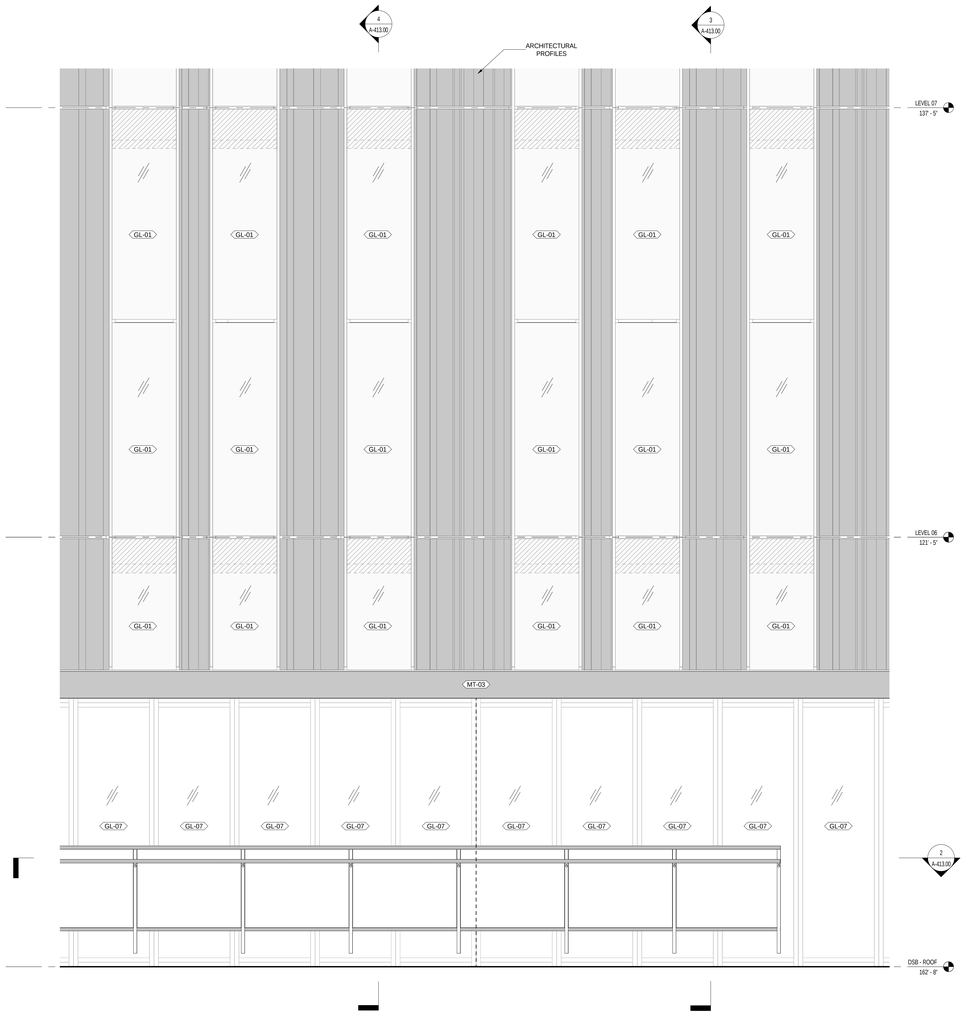
WT-01 - TOWER CURTAIN WALL - AT MECHANICAL FLOOR

SEAL & SIGNATURE

REGISTERED ARCHITECT
DANIELA PASQUARELLI
029529
STATE OF NEW YORK

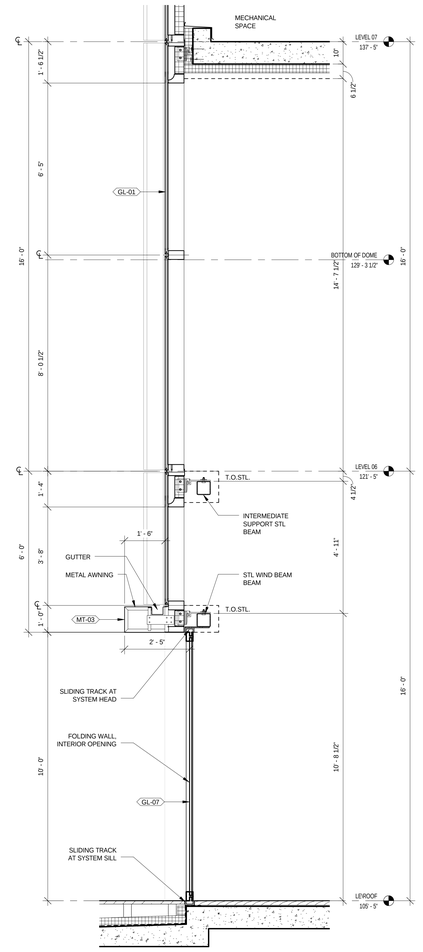
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-412.00

DEPT OF BLDGS 320914338 Job Number
E390534807S Scan Code

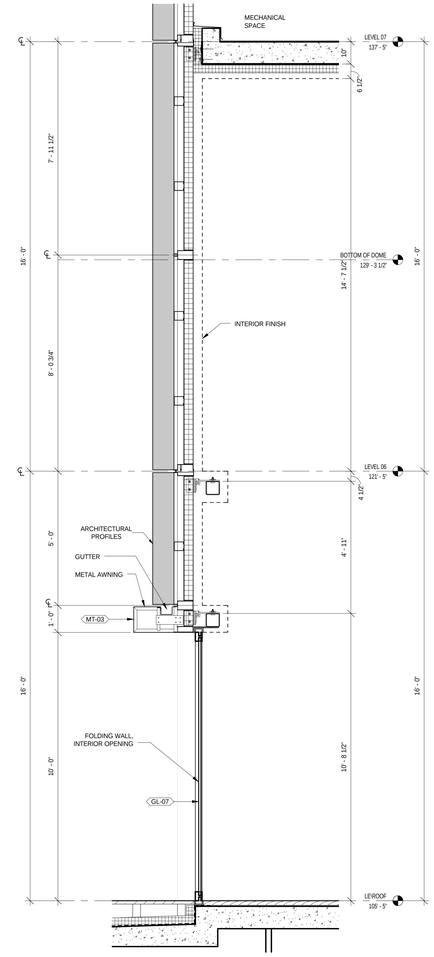


NOTE: FOR ELEMENTS ANNOTATED AS "ARCHITECTURAL PROFILE", REFER TO SHEETS A-401.00 THROUGH A-403.00 FOR A FULL SCHEDULE OF THE LOCATION AND QUANTITIES OF MT-03 THROUGH MT-08 ELEMENTS.

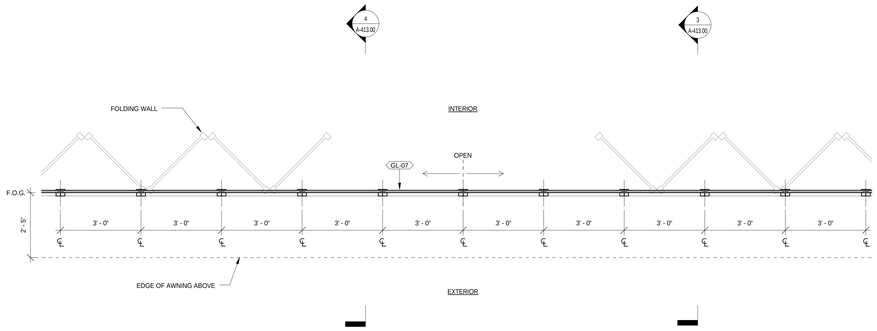
WT-01 ELEVATION AT AMENITY DECK OPENING | 1/2" = 1'-0" | 1 / A-413.00



WT-01 SECTION AT AMENITY OPENING | 1/2" = 1'-0" | 4 / A-413.00



WT-01 SECTION AT AMENITY - OPAQUE PANEL | 1/2" = 1'-0" | 3 / A-413.00



WT-01 PLAN AT AMENITY OPENING | 1/2" = 1'-0" | 2 / A-413.00

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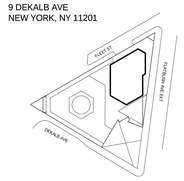

SITE DIAGRAM

07/15/16 DOB FILING SET

07/01/16 FACADE BID PACKAGE

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

WT-01 - TOWER CURTAIN WALL - AT AMENITY DECK OPENING

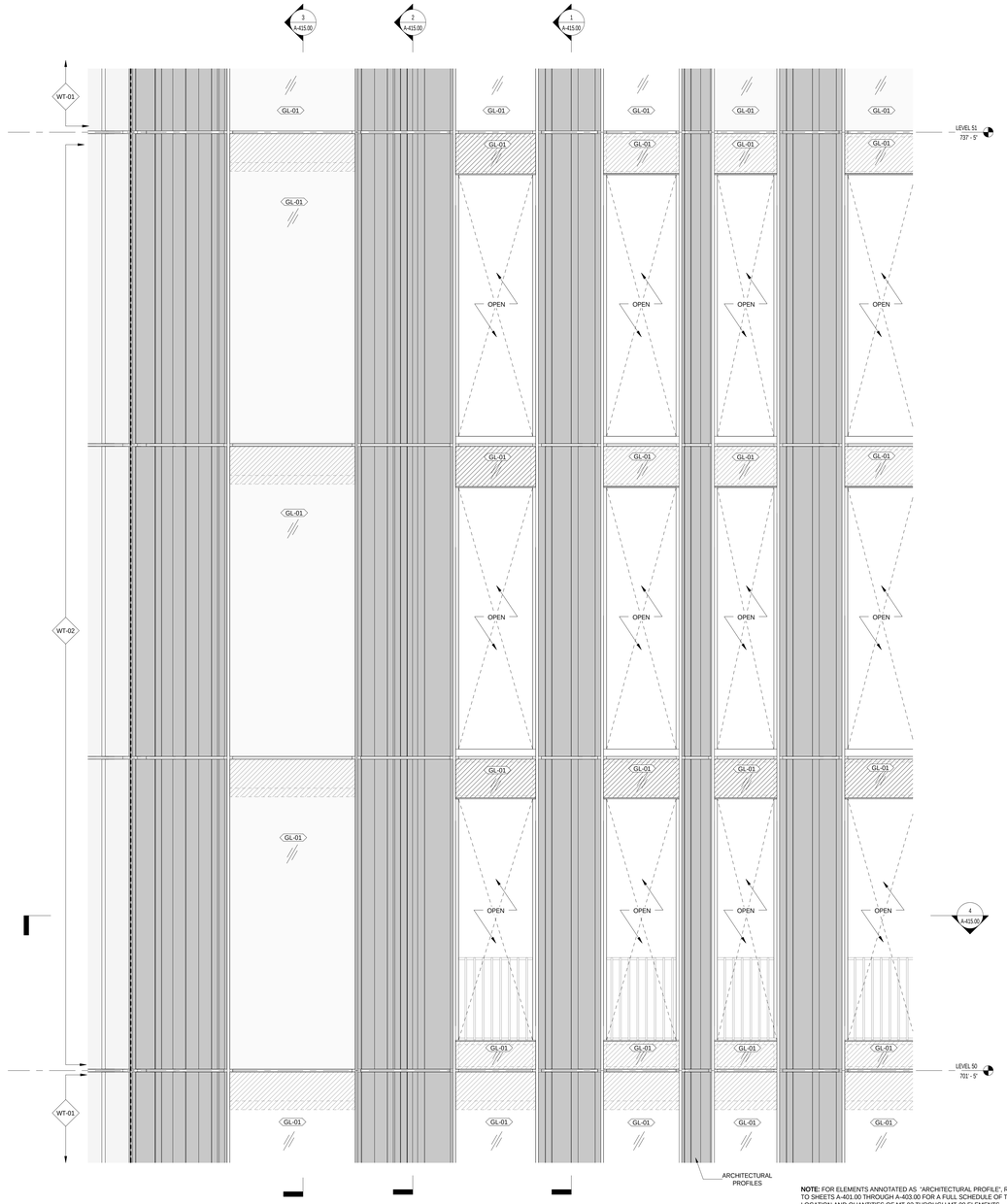
SEAL & SIGNATURE

REGISTERED ARCHITECT JESSICA A. PASQUARELLI 029929 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-413.00

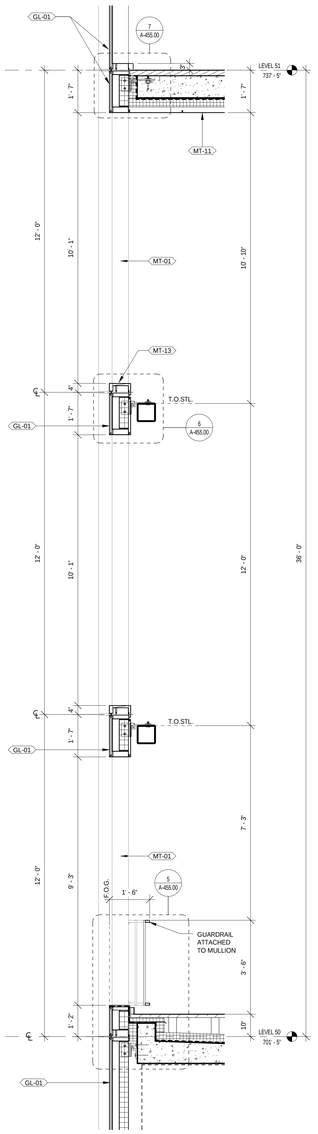
DEPT OF BLDGS 320914338 Job Number

E164456445 Scan Code

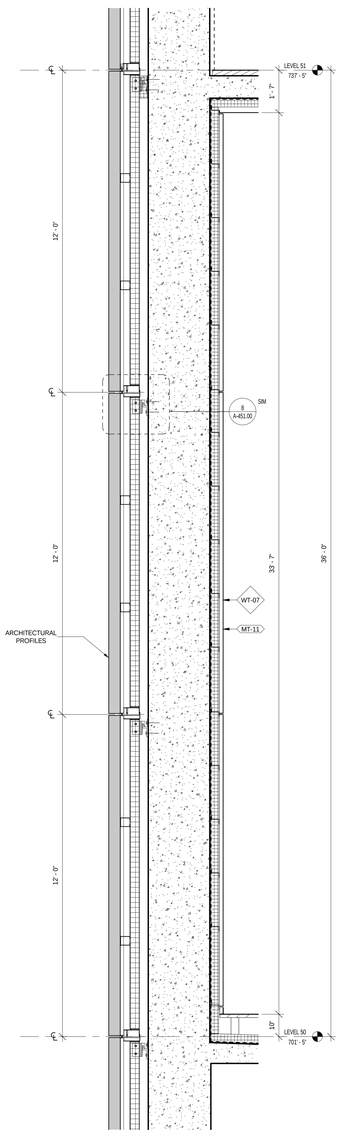


NOTE: FOR ELEMENTS ANNOTATED AS: "ARCHITECTURAL PROFILE", REFER TO SHEETS A-401.00 THROUGH A-403.00 FOR A FULL SCHEDULE OF THE LOCATION AND QUANTITIES OF MT-03 THROUGH MT-08 ELEMENTS.

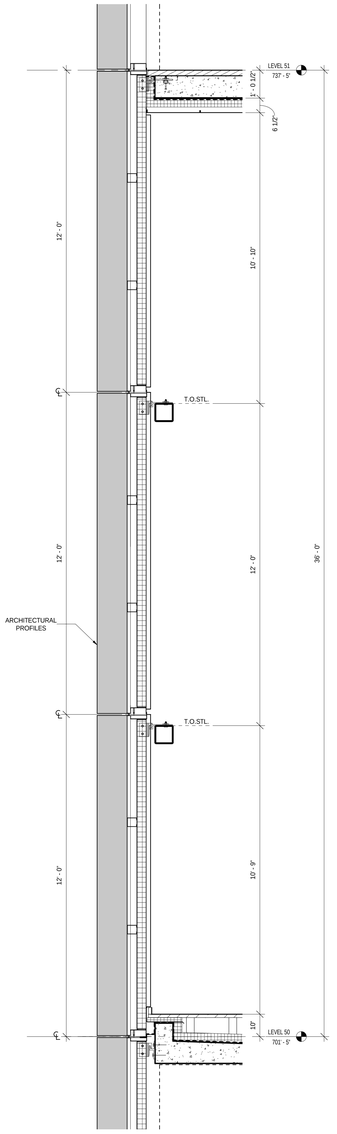
WT-02 ELEVATION | 1/2" = 1'-0" | 5 / A-415.00



WT-02 SECTION AT OPENING | 1/2" = 1'-0" | 3 / A-415.00



WT-02 SECTION AT CONCRETE STRUCTURE | 1/2" = 1'-0" | 2 / A-415.00



WT-02 SECTION AT OPAQUE UNITS | 1/2" = 1'-0" | 1 / A-415.00

WT-02 PLAN | 1/2" = 1'-0" | 4 / A-415.00

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SITE DIAGRAM

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07/15/16	DOB FILING SET
07/01/16	FACADE BID PACKAGE
02/05/16	100% SD REASSESSMENT
3/13/15	100% SCHEMATIC DESIGN

NO.	DATE	REVISION

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DRAWING TITLE

WT-02 - TOWER WIND FLOOR CLADDING

SEAL & SIGNATURE

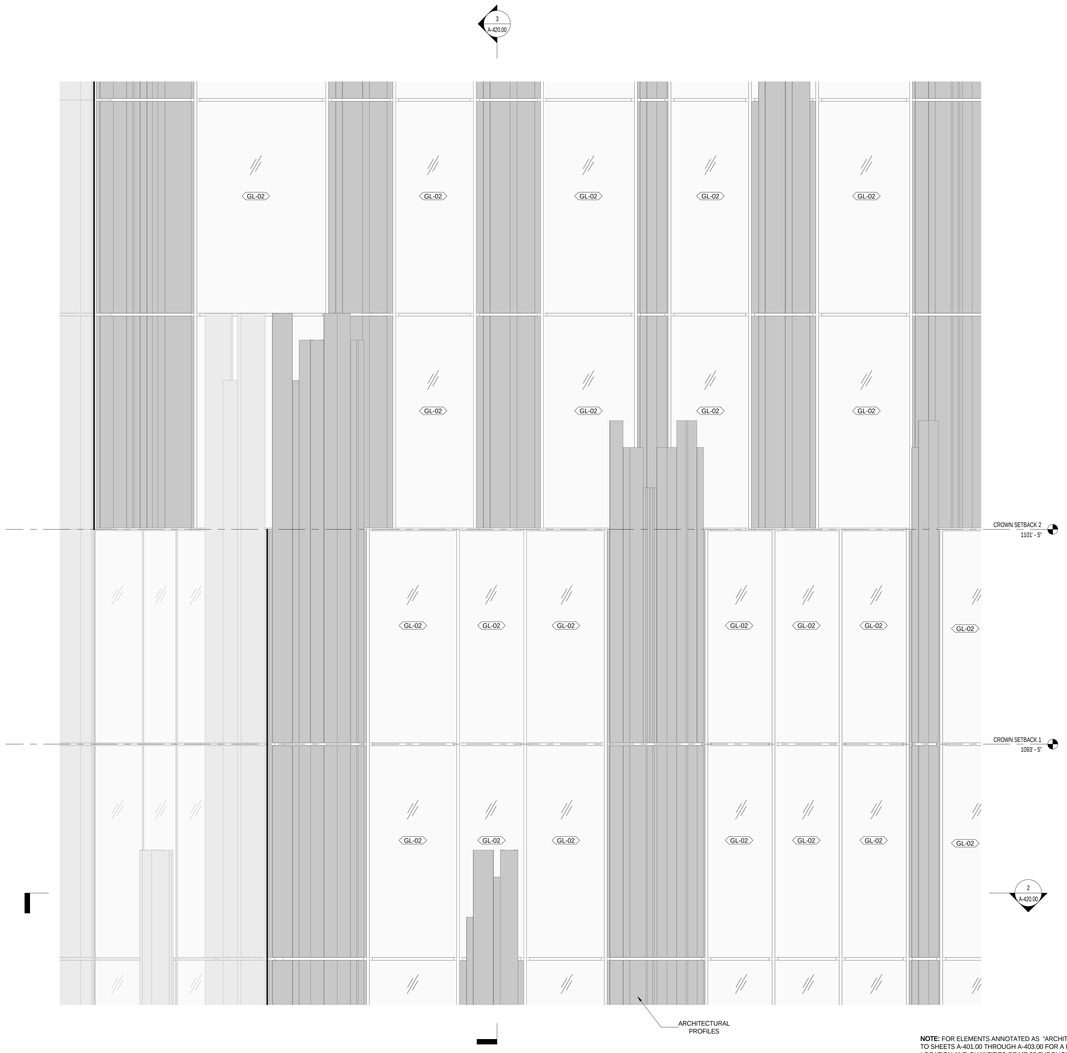
REGISTERED ARCHITECT JESSE K. PASQUARELLI 026026 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

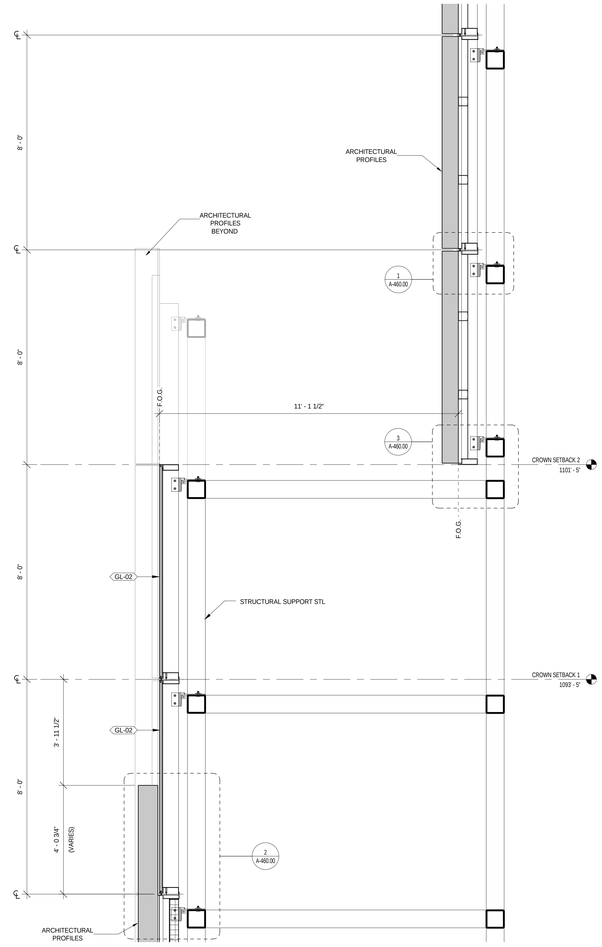
A-415.00

DEPT OF BLDGS 320914338 Job Number
E 5990511/0505 Scan Code

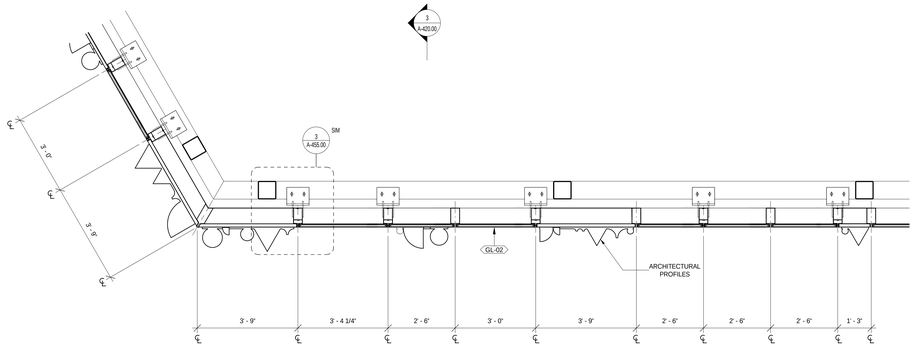


NOTE: FOR ELEMENTS ANNOTATED AS "ARCHITECTURAL PROFILE", REFER TO SHEETS A-401.00 THROUGH A-403.00 FOR A FULL SCHEDULE OF THE LOCATION AND QUANTITIES OF MT-03 THROUGH MT-08 ELEMENTS.

WT-03 ELEVATION | 1/2" = 1'-0" | 1 / A-420.00



WT-03 BULKHEAD CLADDING SECTION | 1/2" = 1'-0" | 3 / A-420.00



WT-03 PLAN | 1/2" = 1'-0" | 2 / A-420.00

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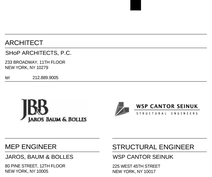

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NO.	DATE	REVISION

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DRAWING TITLE

WT-03 - TOWER BULKHEAD CLADDING

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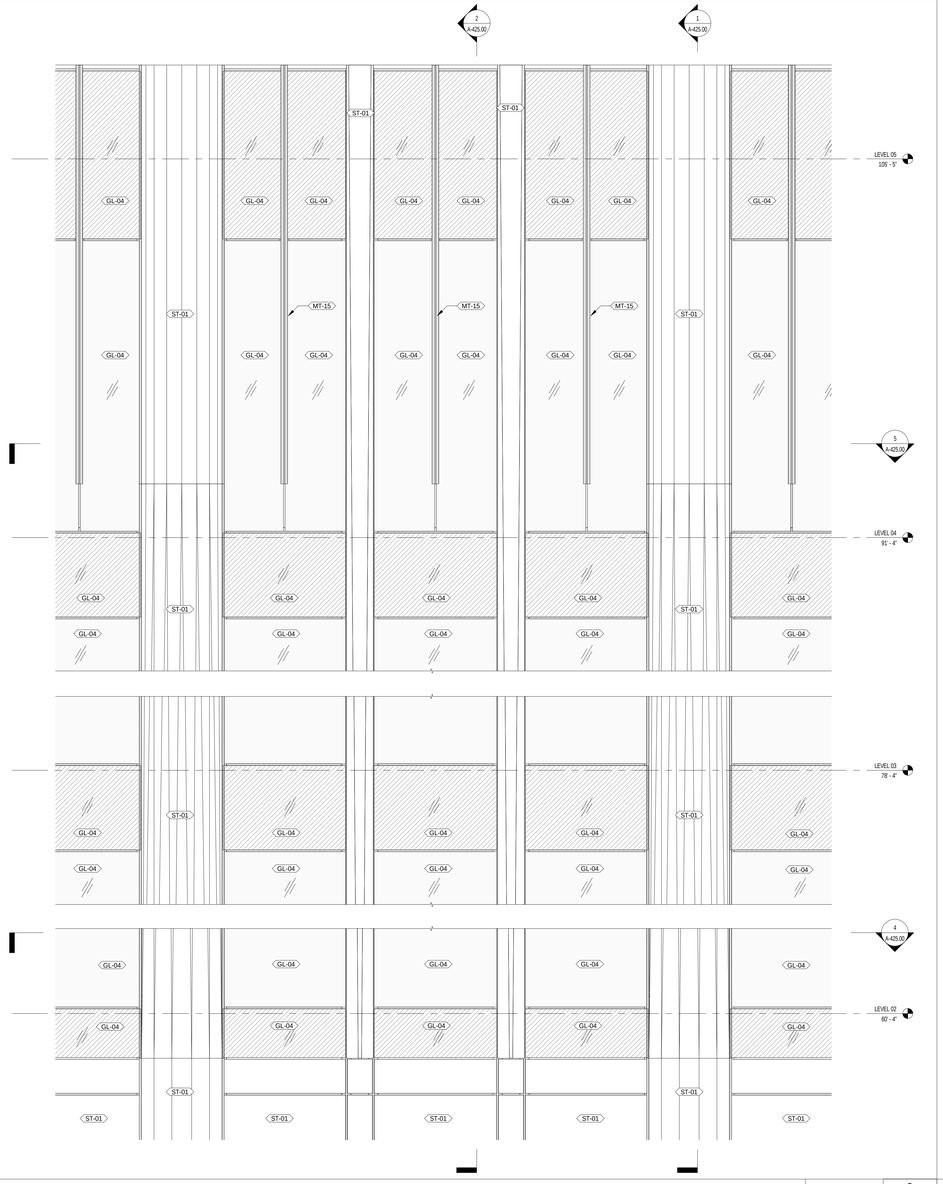
REGISTERED ARCHITECT JOSEPH A. PASQUARELLI 026292 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

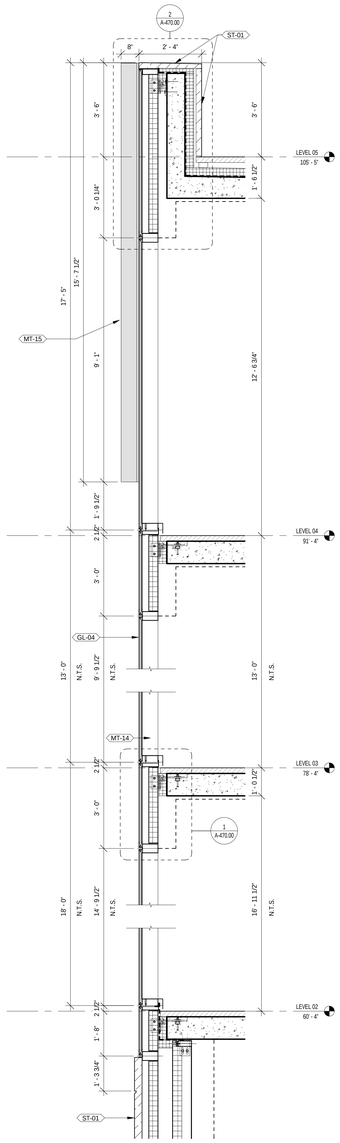
DRAWING NUMBER

A-420.00

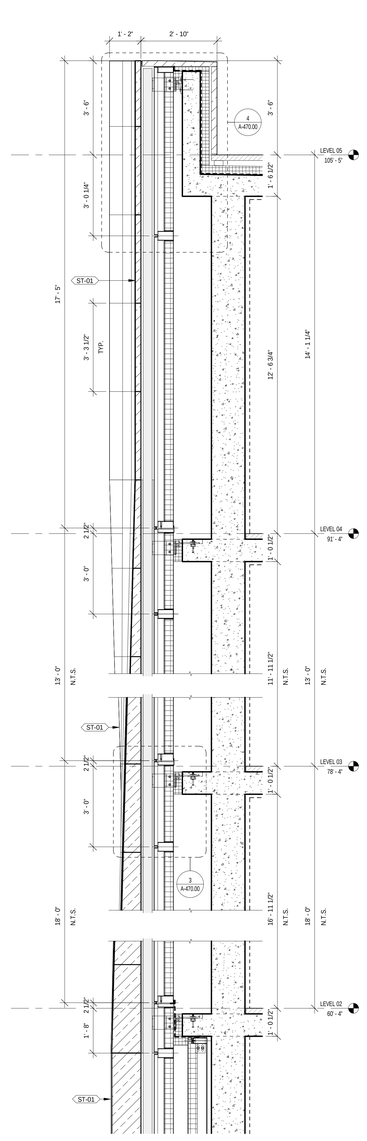
DEPT OF BLDGS 320014338 Job Number
E302432785 Scan Code



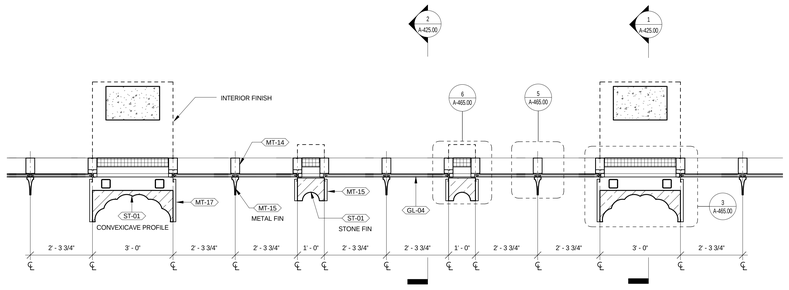
WT-04 ELEVATION | 1/2" = 1'-0" | 3 / A-425.00



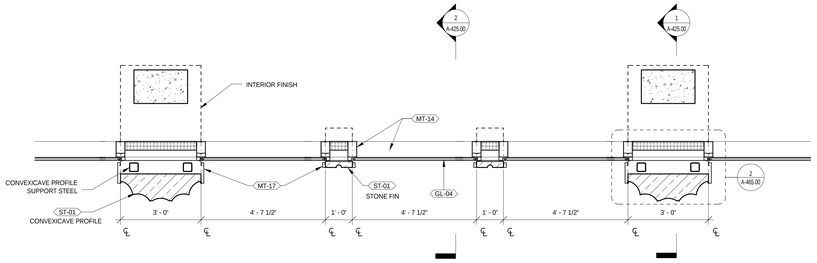
WT-04 SECTION A | 1/2" = 1'-0" | 2 / A-425.00



WT-04 SECTION B | 1/2" = 1'-0" | 1 / A-425.00



WT-04 PLAN A | 1/2" = 1'-0" | 5 / A-425.00



WT-04 PLAN B | 1/2" = 1'-0" | 4 / A-425.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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JAROS, BAUM & BOLLES
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NEW YORK, NY 10005
tel 212.530.9300

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tel 212.687.9888

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NEW YORK, NY 10010
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tel 201.820.2802

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NEW YORK, NY 10005
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WHITE PLAINS, NY 10604
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NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

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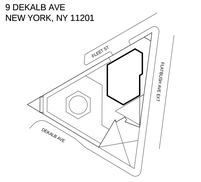
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
07/01/16	FACADE BID PACKAGE
03/05/16	100% SD REASSESSMENT
3/13/15	100% SCHEMATIC DESIGN

NO.	DATE	REVISION

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DRAWING TITLE

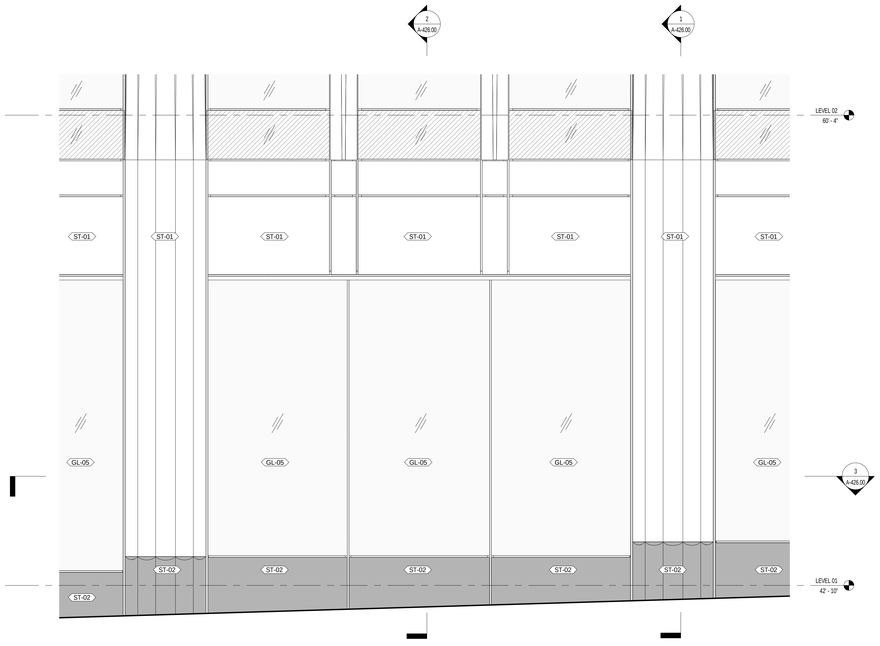
WT-04 - PODIUM CURTAIN WALL

SEAL & SIGNATURE

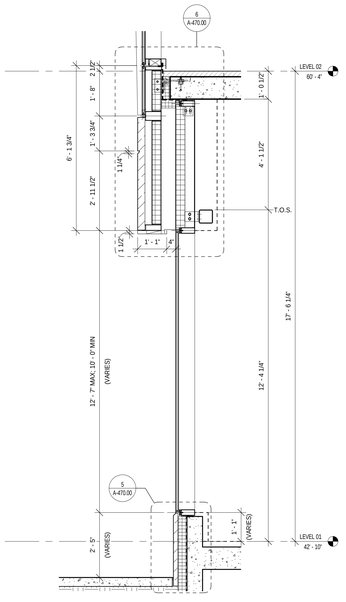
REGISTERED ARCHITECT ROBERT A. PASQUARELLI STATE OF NEW YORK 029015

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-425.00

DEPT OF BLDGS 320014338 Job Number
E304436305 Scan Code



WT-04 ELEVATION AT STOREFRONT | 1/2" = 1'-0" | 4 / A-426.00



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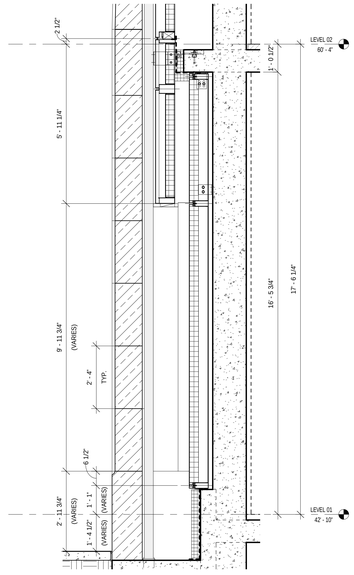

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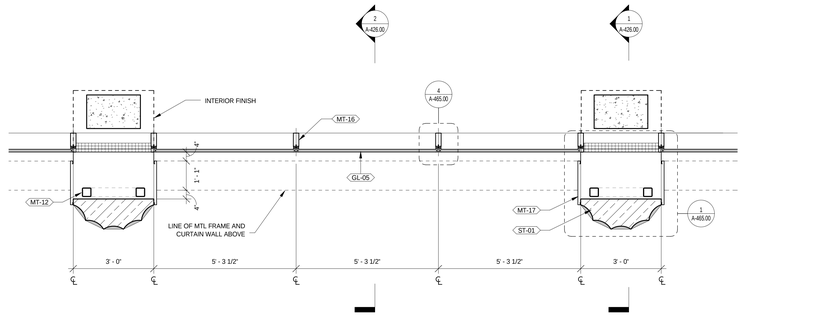

WT-04 PLAN AT STOREFRONT | 1/2" = 1'-0" | 3 / A-426.00

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DEVELOPER
JDS DEVELOPMENT GROUP
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NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
SHoP ARCHITECTS, P.C.
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NEW YORK, NY 10279
tel 212.889.9005

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JAROS, BAUM & BOLLES
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NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
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NEW YORK, NY 10016
tel 646.388.9828

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133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

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LIGHTING
BOLD
237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7800

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
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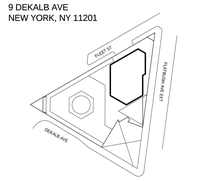
9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
07/01/16	FACADE BID PACKAGE
02/05/16	100% SD REASSESSMENT

NO.	DATE	REVISION

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DRAWING TITLE

WT-04 - PODIUM STOREFRONT

SEAL & SIGNATURE

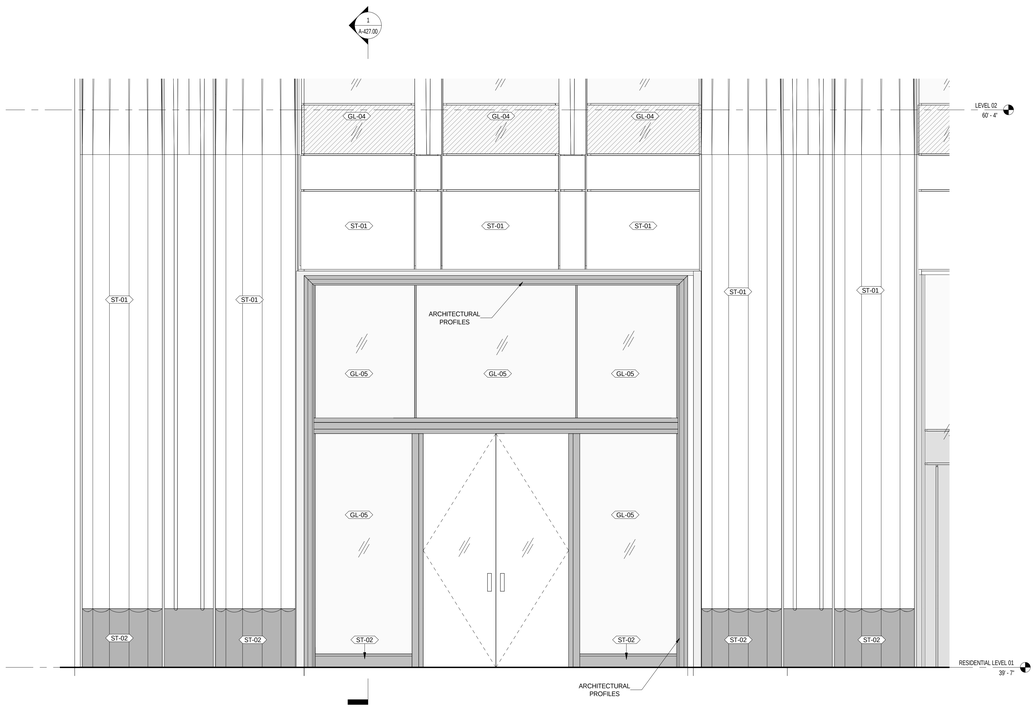
REGISTERED ARCHITECT JESSE A. PASQUARELLI 026292 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

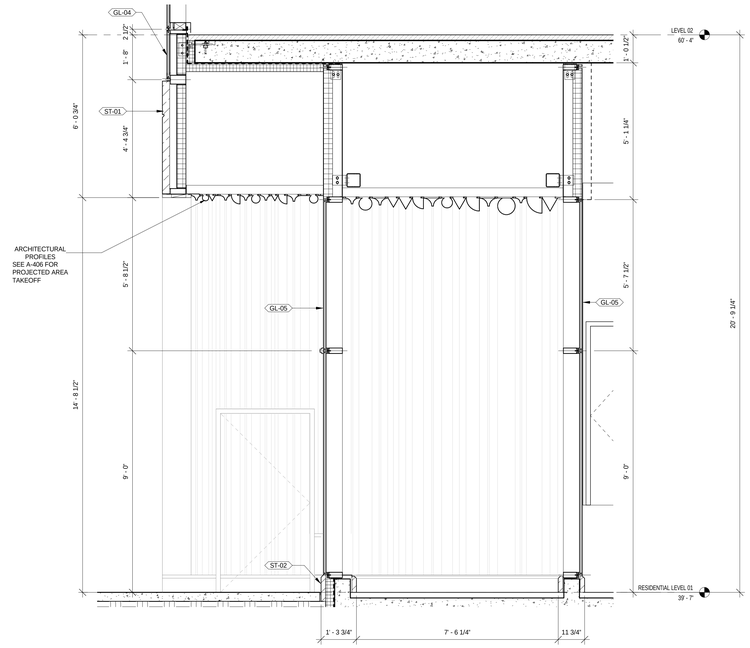
DRAWING NUMBER

A-426.00

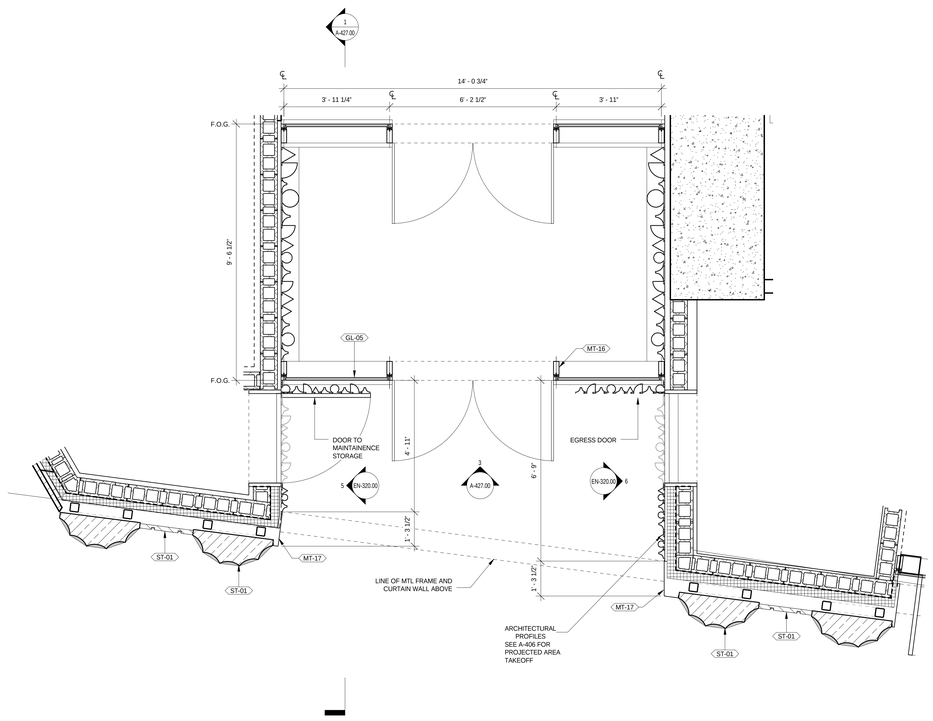
DEPT OF BLDGS 320914338 Job Number
E 5551329706 Scan Code



WT-04 RESIDENTIAL ENTRY ELEVATION | 1/2" = 1'-0" | 3 / A-427.00



WT-04 SECTION AT RESIDENTIAL ENTRY | 1/2" = 1'-0" | 1 / A-427.00



WT-04 RESIDENTIAL ENTRY PLAN - LEVEL 01 | 1/2" = 1'-0" | 2 / A-427.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
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NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
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tel 201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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tel 212.233.6344

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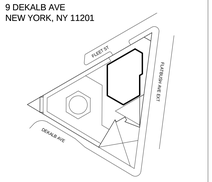

SITE DIAGRAM

DATE	ISSUE
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07/01/16	FACADE BID PACKAGE
02/05/16	100% SD REASSESSMENT

NO.	DATE	REVISION

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DRAWING TITLE

WT-04 - PODIUM STOREFRONT - AT RESIDENTIAL ENTRY

SEAL & SIGNATURE

REGISTERED ARCHITECT JESSE A. PASQUARELLI 026292 STATE OF NEW YORK

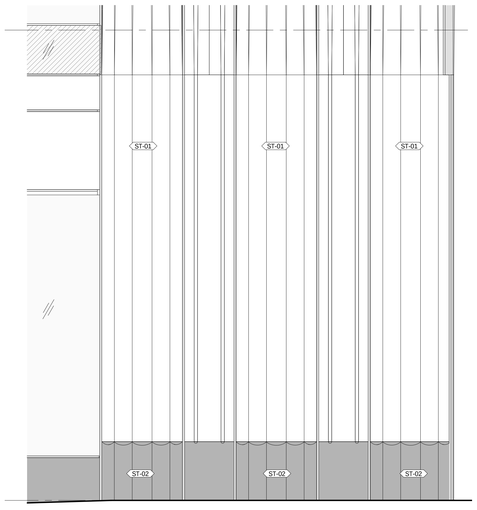
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

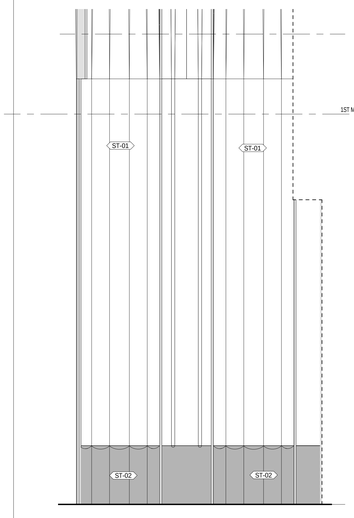
A-427.00

DEPT OF BLDGS 320914338 Job Number

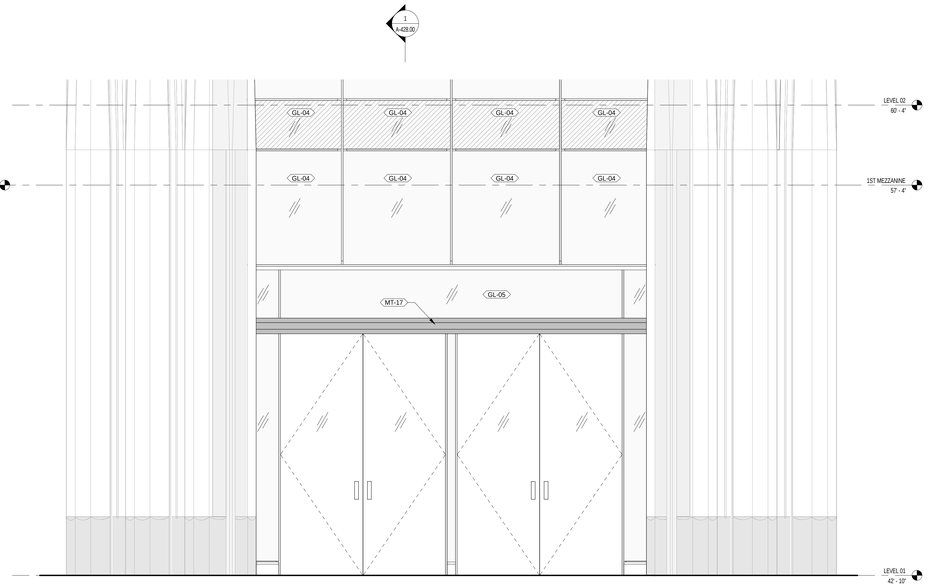
E1620000000 Scan Code



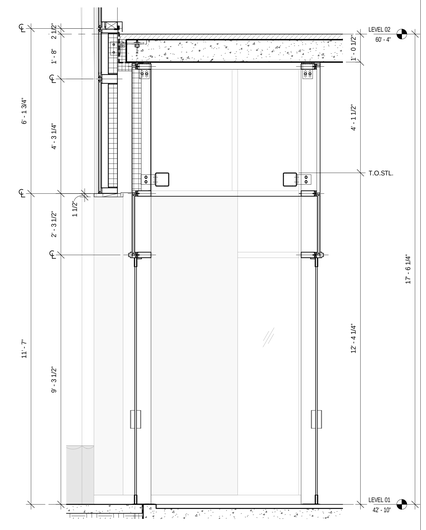
WT-04 ELEVATION AT RETAIL ENTRY FRAME A | 1/2" = 1'-0" | 5 / A-428.00



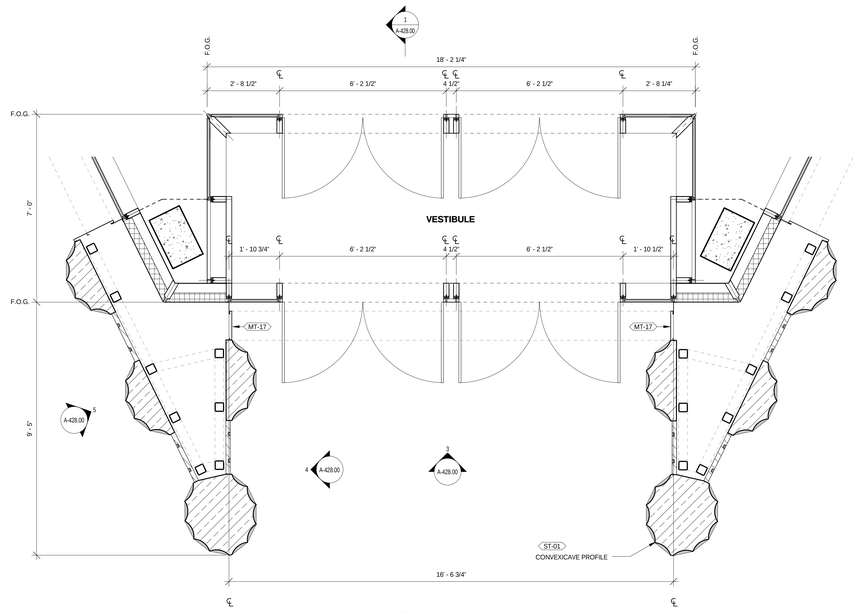
WT-04 ELEVATION AT RETAIL ENTRY FRAME B | 1/2" = 1'-0" | 4 / A-428.00



WT-04 RETAIL ENTRY ELEVATION | 1/2" = 1'-0" | 3 / A-428.00



WT-04 RETAIL ENTRY SECTION | 1/2" = 1'-0" | 1 / A-428.00



WT-04 RETAIL ENCLOSURE PLAN - LEVEL 01 | 1/2" = 1'-0" | 2 / A-428.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 60TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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EAST HANOVER, NJ 07936
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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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tel 212.759.6540

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NEW YORK, NY 10001
tel 212.674.6500

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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

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NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
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NEW YORK, NY 10005
tel 212.334.2025

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WHITE PLAINS, NY 10604
tel 914.495.4290

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22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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9 DEKALB AVE
NEW YORK, NY 11201

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02/05/16	100% SD REASSESSMENT
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NO.	DATE	REVISION

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DRAWING TITLE

WT-04 - PODIUM STOREFRONT - AT RETAIL ENTRY

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REGISTERED ARCHITECT JESSICA A. PASQUARELLI 026292 STATE OF NEW YORK

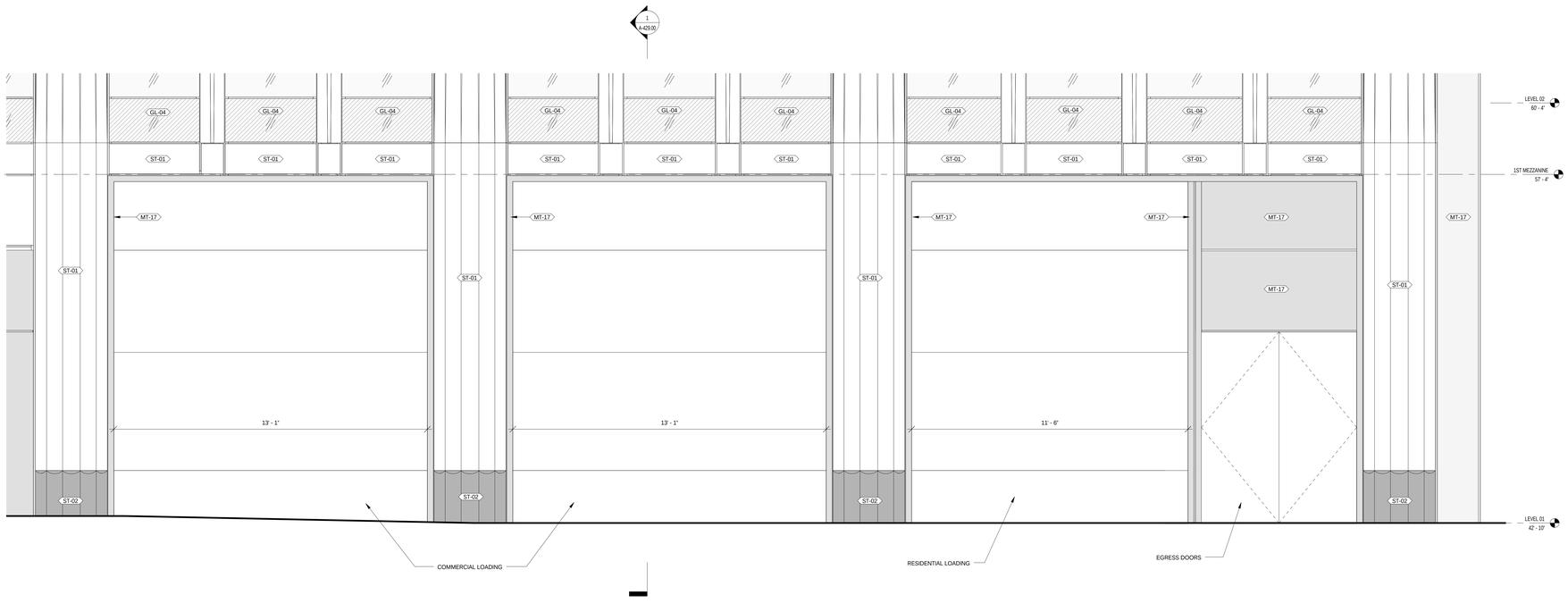
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

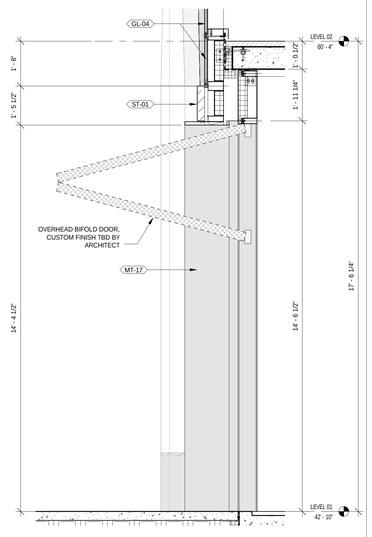
A-428.00

DEPT OF BLDGS 320914338 Job Number

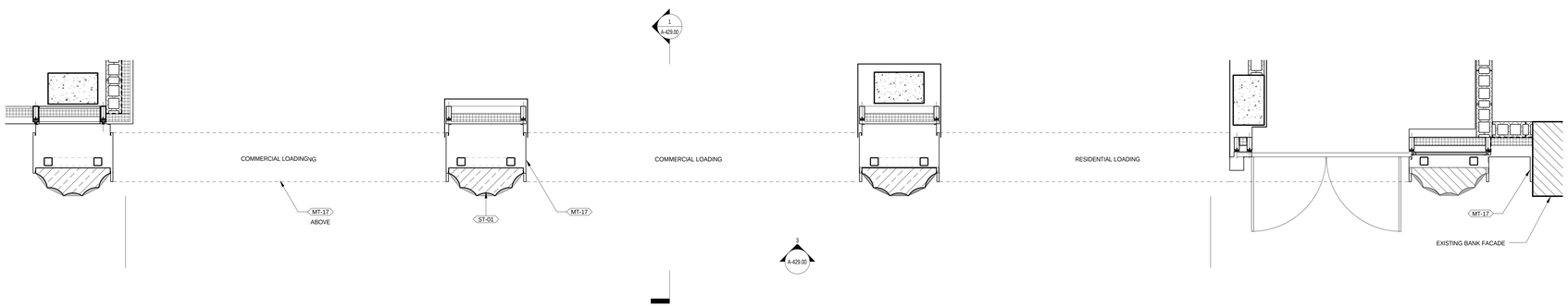
E320439855S1 Scan Code



WT-04 ELEVATION AT LOADING DOCK | 1/2" = 1'-0" | 3 / A-429.00



WT-04 SECTION AT LOADING DOCK DOOR | 1/2" = 1'-0" | 1 / A-429.00



WT-04 PLAN AT LOADING DOCK | 1/2" = 1'-0" | 2 / A-429.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
233 BROADWAY, 117H FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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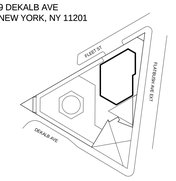
NEW YORK, NY 10007
tel 212.233-6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
07/01/16	FACADE BID PACKAGE
02/05/16	100% SD REASSESSMENT

NO.	DATE	REVISION

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DRAWING TITLE

WT-04 - PODIUM STOREFRONT - AT LOADING DOCK

SEAL & SIGNATURE

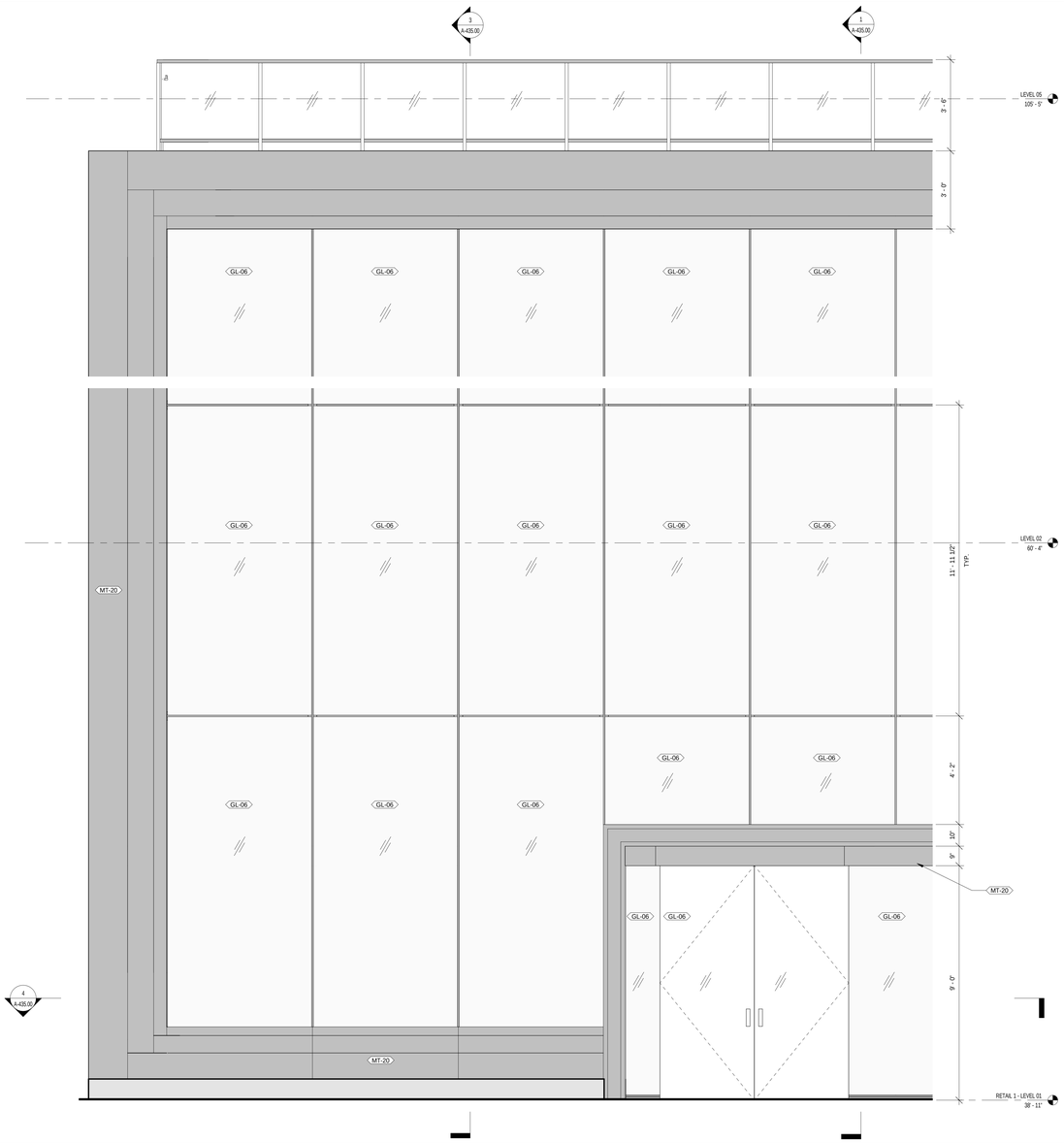
REGISTERED ARCHITECT JESSE A. PASQUARELLI 026292 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

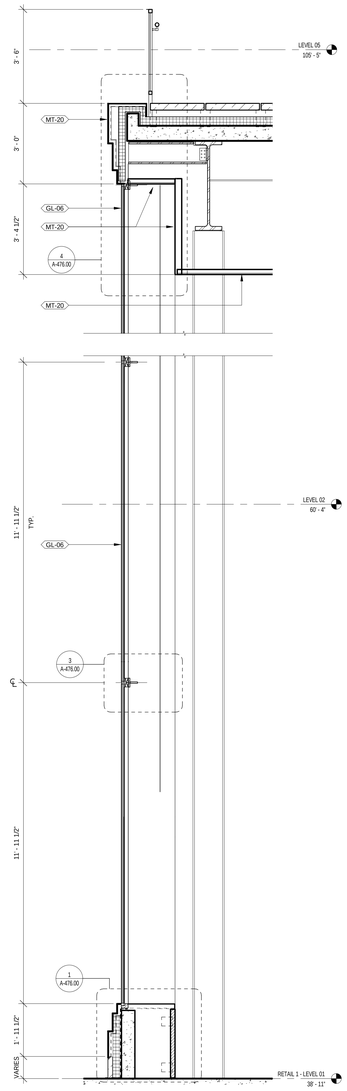
DRAWING NUMBER

A-429.00

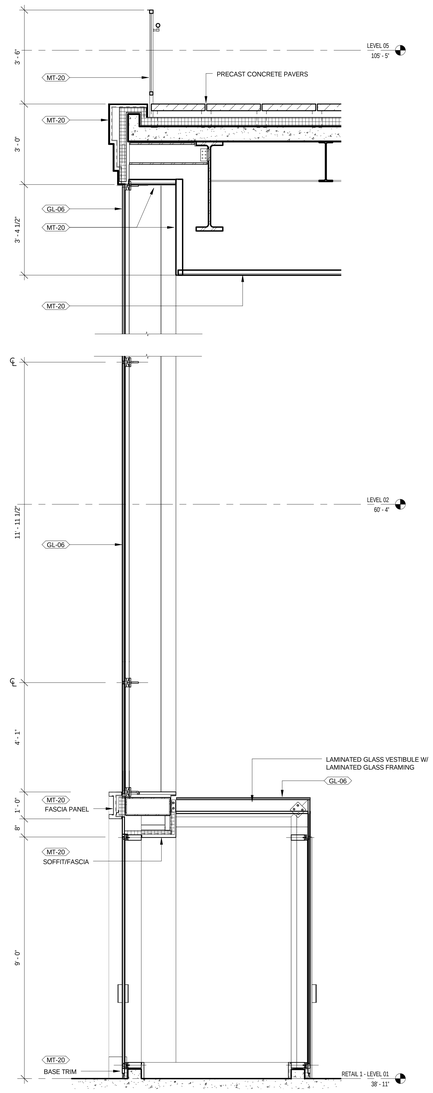
DEPT OF BLDGS 320914338 Job Number
E 320337760985 Scan Code



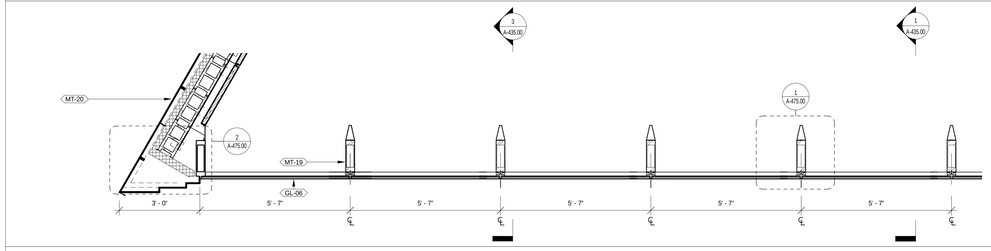
WT-05 GLASS VOLUME ENCLOSURE ELEVATION | 1/2" = 1'-0" | 6 / A-435.00



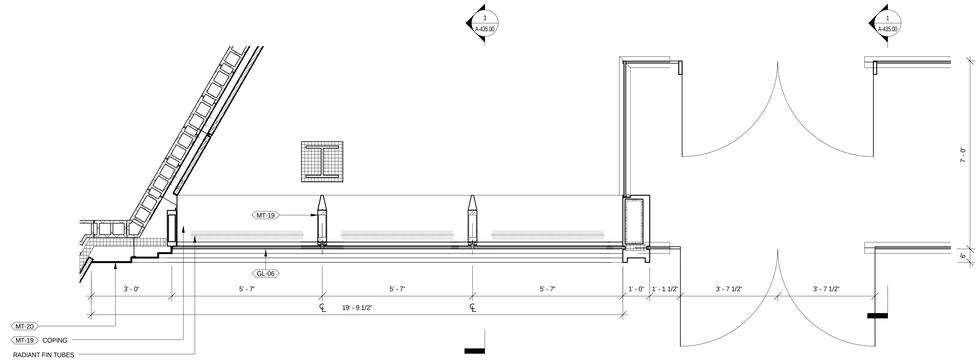
WT-05 SECTION A | 1/2" = 1'-0" | 3 / A-435.00



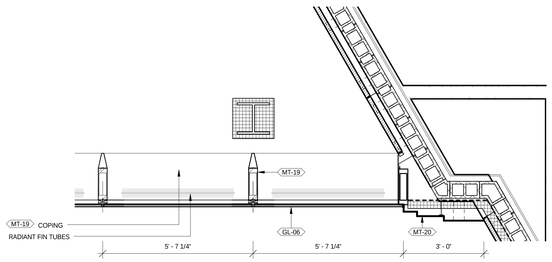
WT-05 SECTION B | 1/2" = 1'-0" | 1 / A-435.00



WT-05 PLAN | 1/2" = 1'-0" | 5 / A-435.00



WT-05 PLAN AT LEVEL 01 - SOUTH | 1/2" = 1'-0" | 4 / A-435.00



WT 05 - PLAN AT LEVEL 01 - NORTH | 1/2" = 1'-0" | 2 / A-435.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES
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JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.8888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT
INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES
HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10016
tel 212.755-0540

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237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEX ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER
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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS
BUILDING ENERGY
VIDARIS
260 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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310 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

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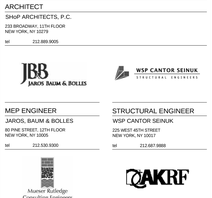
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
07/01/16	FACADE BID PACKAGE
02/05/16	100% SD REASSESSMENT
3/13/15	100% SCHEMATIC DESIGN

NO.	DATE	REVISION

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DRAWING TITLE

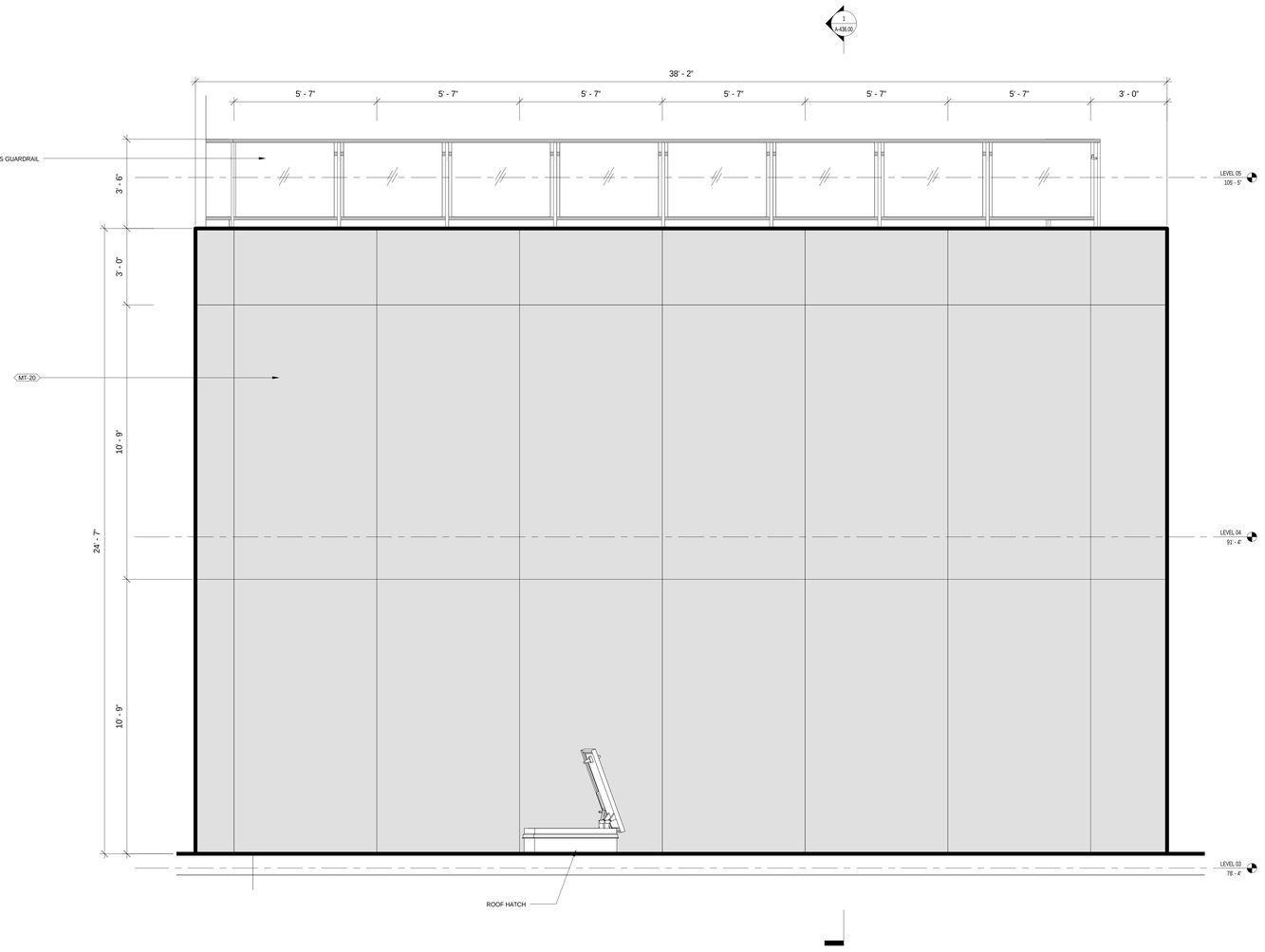
WT-05 - PRISM ENCLOSURE

SEAL & SIGNATURE

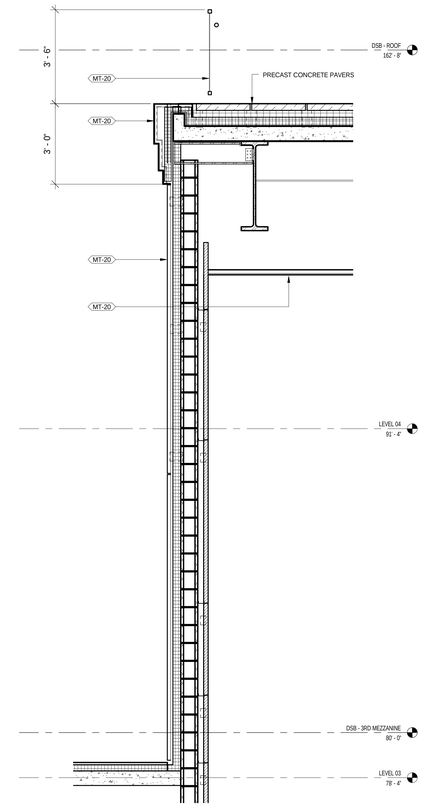
REGISTERED ARCHITECT JOSEPH A. PASQUARELLI 022226 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-435.00

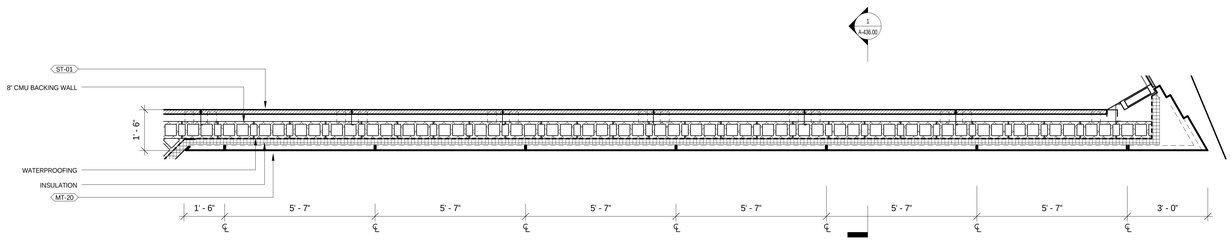
DEPT OF BLDGS 320914338 Job Number
E 3315567 3805 Scan Code



WT-05B PRISM ENCLOSURE ELEVATION | 1/2" = 1'-0" | 3 | A-436.00



WT-05B - SECTION | 1/2" = 1'-0" | 1 | A-436.00



WT-05B - PLAN | 1/2" = 1'-0" | 2 | A-436.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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JAROS, BAUM & BOLLES
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tel 212.530.9300

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tel 212.687.9888

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tel 646.388.9828

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EAST HANOVER, NJ 07936
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THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
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594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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tel 212.759.6540

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tel 212.674.6500

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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
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HACKENSACK, NJ 07601
tel 201.820.2802

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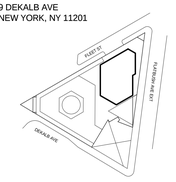

SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
07/01/16	FACADE BID PACKAGE

NO.	DATE	REVISION

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DRAWING TITLE

WT-05B - PRISM ENCLOSURE

SEAL & SIGNATURE

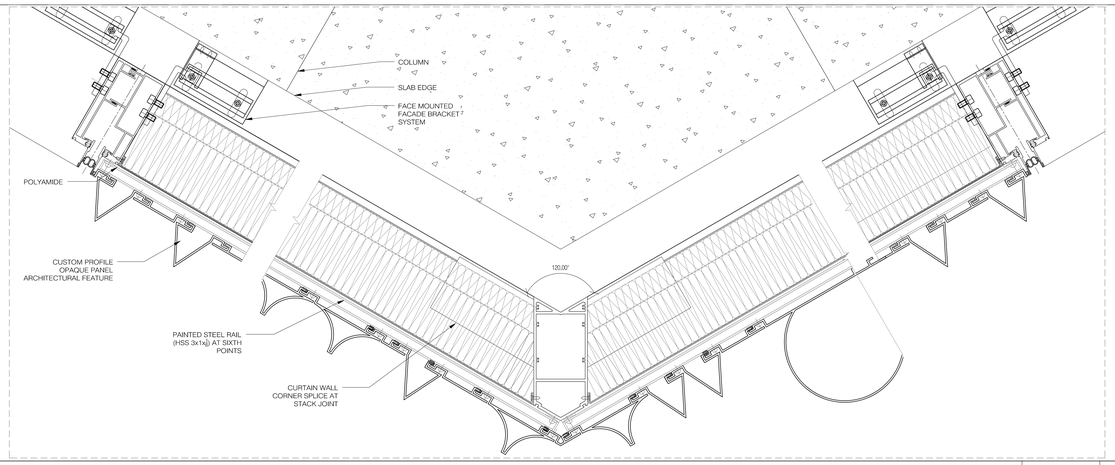
REGISTERED ARCHITECT GREGORY PASCHKEWITZ 026949 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

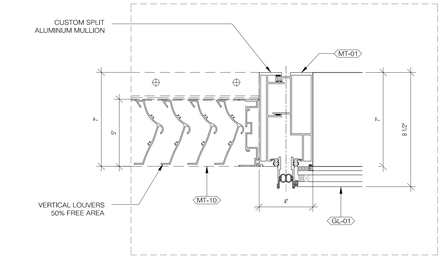
DRAWING NUMBER

A-436.00

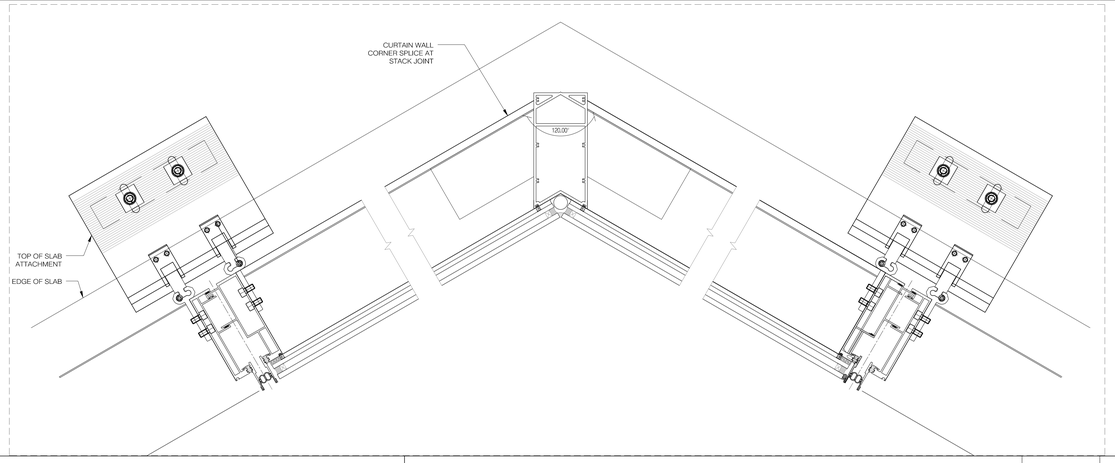
DEPT OF BLDGS 320143338 Job Number
E320030434 Scan Code



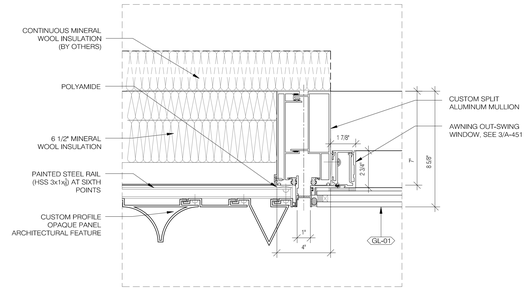
PLAN DETAIL - WT-01, WT-02, AND WT-03 CONVEX OPAQUE CORNER UNIT WITH METAL PROFILES | 3" = 1'-0" | 6 | A-402.00



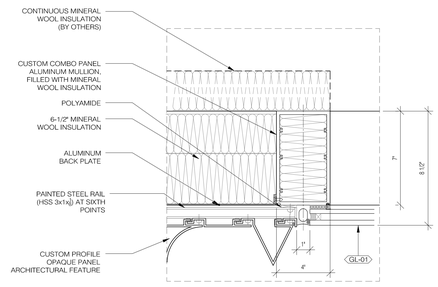
PLAN DETAIL - WT-01 MECHANICAL LOUVER UNIT | 3" = 1'-0" | 10 | A-402.00



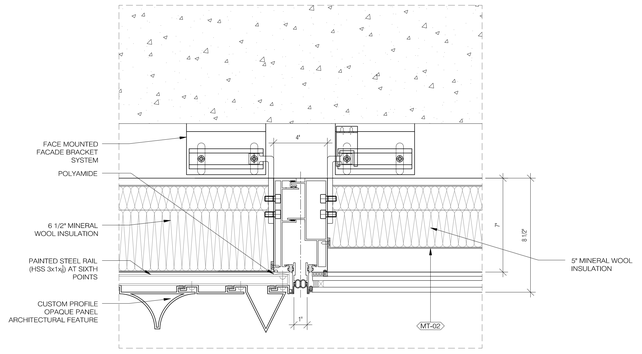
PLAN DETAIL - WT-01 CONCAVE CORNER UNIT | 3" = 1'-0" | 7 | A-402.00



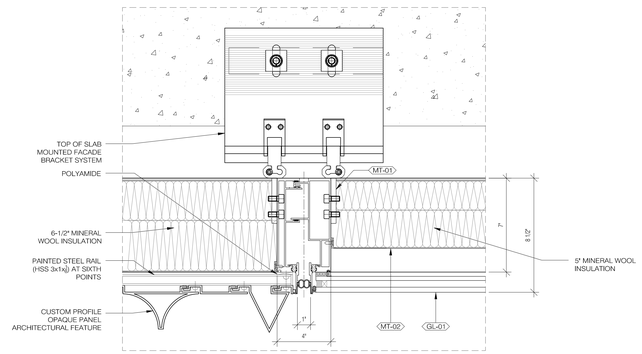
PLAN DETAIL - WT-01 VISION UNIT AT OPERABLE WINDOW JAMB | 3" = 1'-0" | 5 | A-402.00



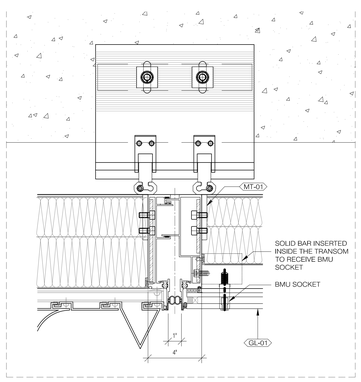
PLAN DETAIL - WT-01 TYPICAL COMBO PANEL INTERMEDIATE MULLION | 3" = 1'-0" | 8 | A-402.00

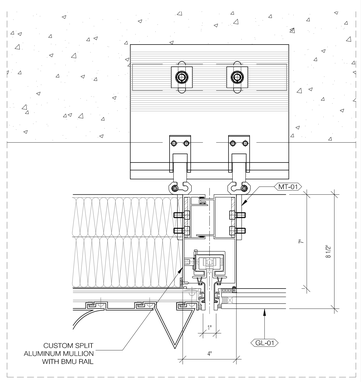


PLAN DETAIL - WT-01 TYPICAL MULLION AT SPANDREL FACE MOUNTED ATTACHMENT | 3" = 1'-0" | 9 | A-402.00

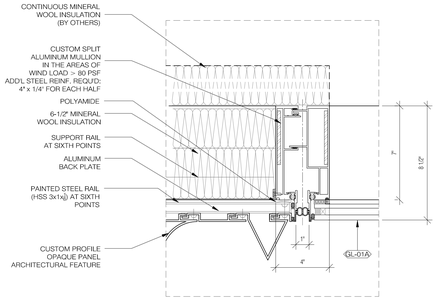


PLAN DETAIL - WT-01 TYPICAL MULLION AT SPANDREL TOP OF SLAB ATTACHMENT | 3" = 1'-0" | 3 | A-402.00

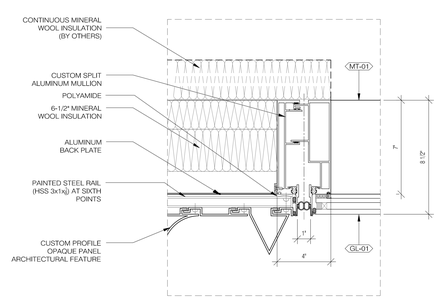




PLAN DETAIL - WT-01 TYPICAL MULLION AT BMU TRACK ALTERNATE
PLAN DETAIL - WT-01 TYPICAL MULLION AT BMU TRACK | 3" = 1'-0" | 4 | A-402.00



PLAN DETAIL - WT-01 MULLION WITH STEEL REINFORCEMENT | 3" = 1'-0" | 2 | A-402.00



PLAN DETAIL - WT-01 TYPICAL SPLIT MULLION | 3" = 1'-0" | 1 | A-402.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.5000

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 45TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Munroe Billedge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9626

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VERTICAL TRANSPORTATION
VAN DELUSEN & ASSOCIATES
120 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
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tel 646.666.0646

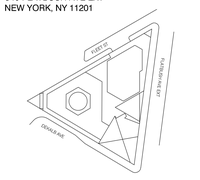
HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6640

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

340 FLATBUSH AVE EXT
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07.15.16	DOB FILING SET			
07/01/16	FACADE BID PACKAGE			

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DRAWING TITLE

PLAN DETAILS WT-01

SEAL & SIGNATURE

REGISTERED ARCHITECT GREGORY A. PASQUARELLI 026441 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	sscho
CHECKED BY	SP
DOB NO.	320914338

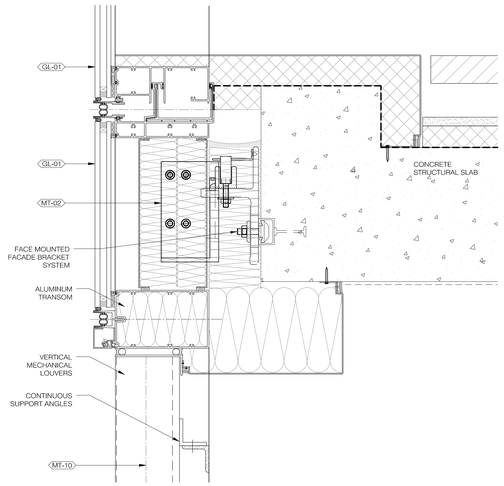
DRAWING NUMBER

A-450.00

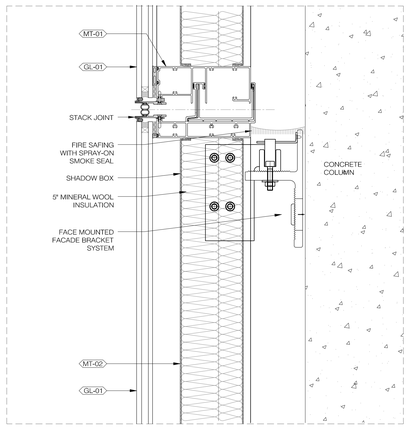
5/17/2016 10:14:08 AM

DEPT OF BLDGS 320914338 Job Number

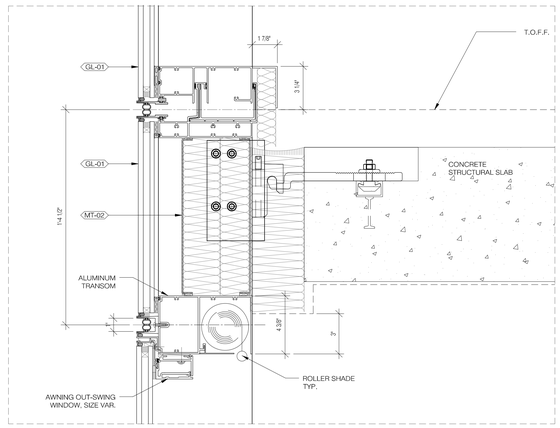
B2009303331 Scan Code



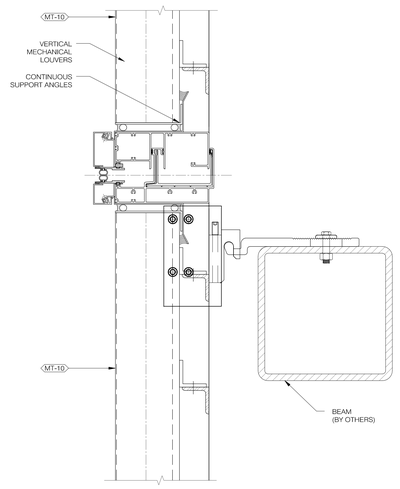
SECTION DETAIL - WT-01 MECHANICAL LOUVER UNIT: AT HEAD, WT-02 WIND FLOOR ABOVE | 3" = 1'-0" | 7 / A-451.00



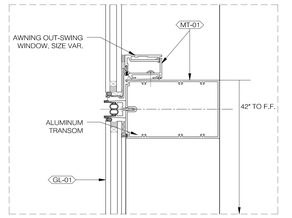
SECTION DETAIL - WT-01 AND WT-02 STACK JOINT AT SPANDREL FACE MOUNTED ATTACHMENT | 3" = 1'-0" | 8 / A-451.00



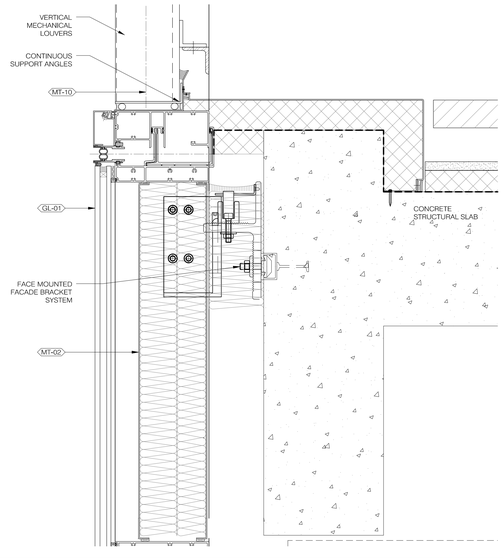
SECTION DETAIL - WT-01 STACK JOINT AT WINDOW HEAD | 3" = 1'-0" | 3 / A-451.00



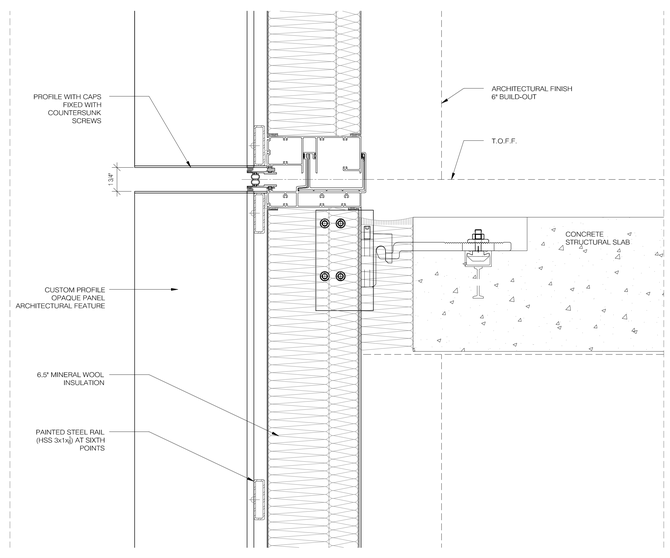
SECTION DETAIL - WT-01 MECHANICAL LOUVER UNIT: AT INTERMEDIATE SUPPORT BEAM | 3" = 1'-0" | 6 / A-451.00



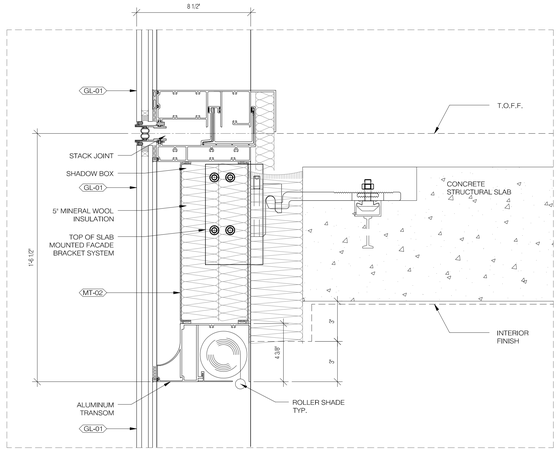
SECTION DETAIL - WT-01 OPERABLE VISION UNIT AT WINDOW SILL | 3" = 1'-0" | 2 / A-451.00



SECTION DETAIL - WT-01 MECHANICAL LOUVER UNIT: AT SILL, WT-01 WITH GLASS BELOW | 3" = 1'-0" | 5 / A-451.00



SECTION DETAIL - WT-01 STACK JOINT AT OPAQUE UNITS | 3" = 1'-0" | 4 / A-451.00



SECTION DETAIL - WT-01 TYPICAL STACK JOINT AT TOP OF SLAB ATTACHMENT | 3" = 1'-0" | 1 / A-451.00

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JDS DEVELOPMENT GROUP
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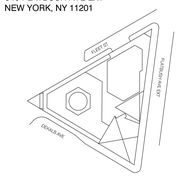

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07.01.16	FACADE BID PACKAGE			

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DRAWING TITLE

SECTION DETAILS WT-01

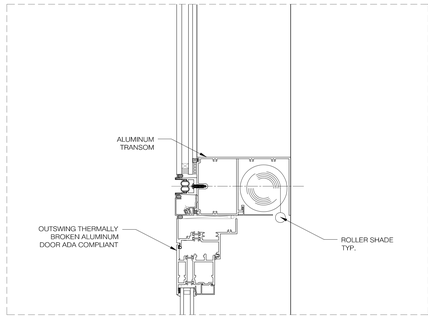
SEAL & SIGNATURE

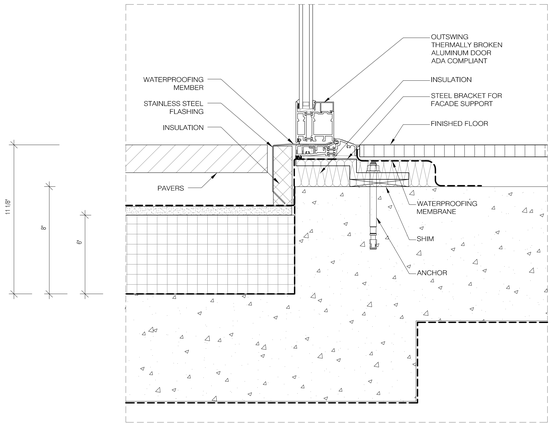
REGISTERED ARCHITECT ROBERT A. PASQUARELLI 022026 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	1-40429
DRAWN BY	SS/CHO
CHECKED BY	SP
JOB NO.	320914338
DRAWING NUMBER	A-451.00

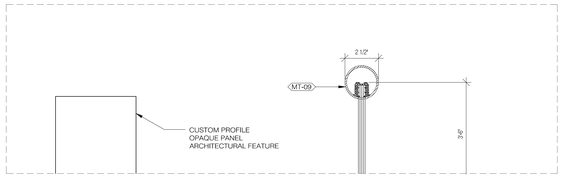
07/20/16 10:47:48 AM

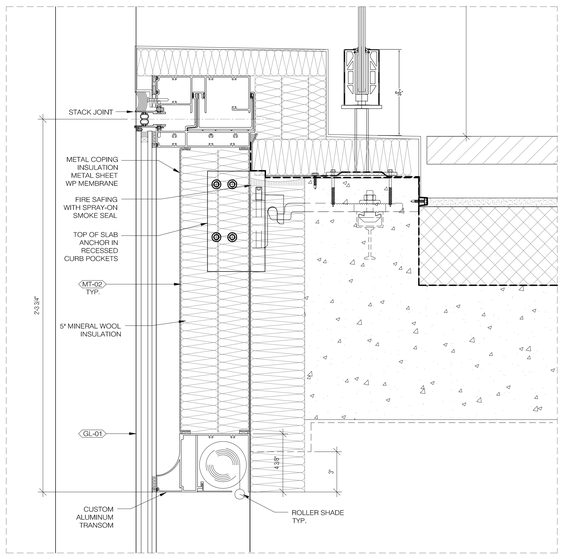
DEPT OF BUILDINGS 320914338 Job Number
E360185523TS Scan Code



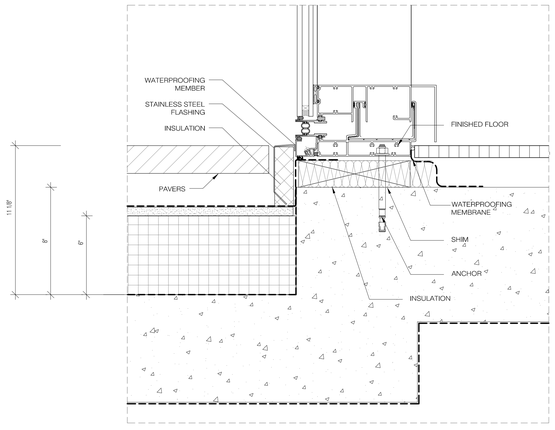


SECTION DETAIL - WT-01 DOOR HED AND SILL AT TERRACE | 3" = 1'-0" | 2 / A-452.00





SECTION DETAIL - WT-01 TERRACE PARAPET AT GLASS UNIT | 3" = 1'-0" | 3 / A-452.00



SECTION DETAIL - WT-01 STARTER TRACK AT TERRACE | 3" = 1'-0" | 1 / A-452.00

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SECTION DETAILS WT-01

SEAL & SIGNATURE

REGISTERED ARCHITECT DEBORA A. PASQUARELLI 026200 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	sscho
CHECKED BY	SP
DOB NO.	320914338

DRAWING NUMBER

A-452.00

3/17/2016 10:14:08 AM

DEPT OF BLDGS 320914338 Job Number
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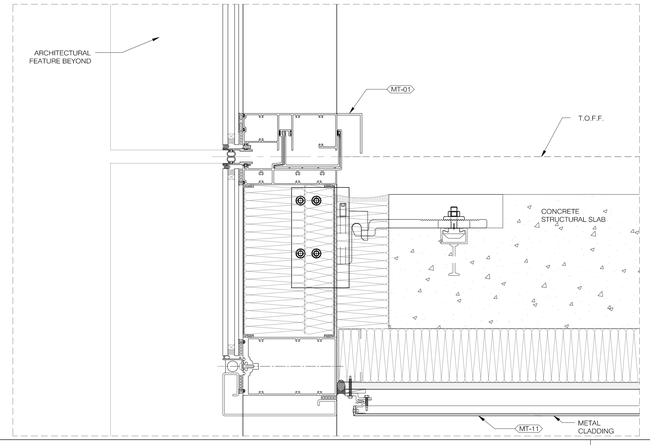
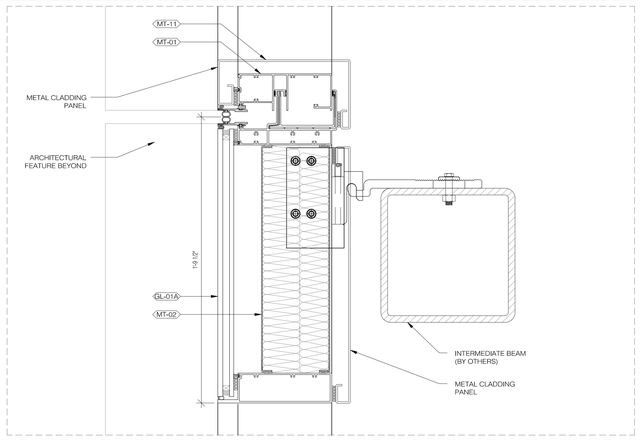
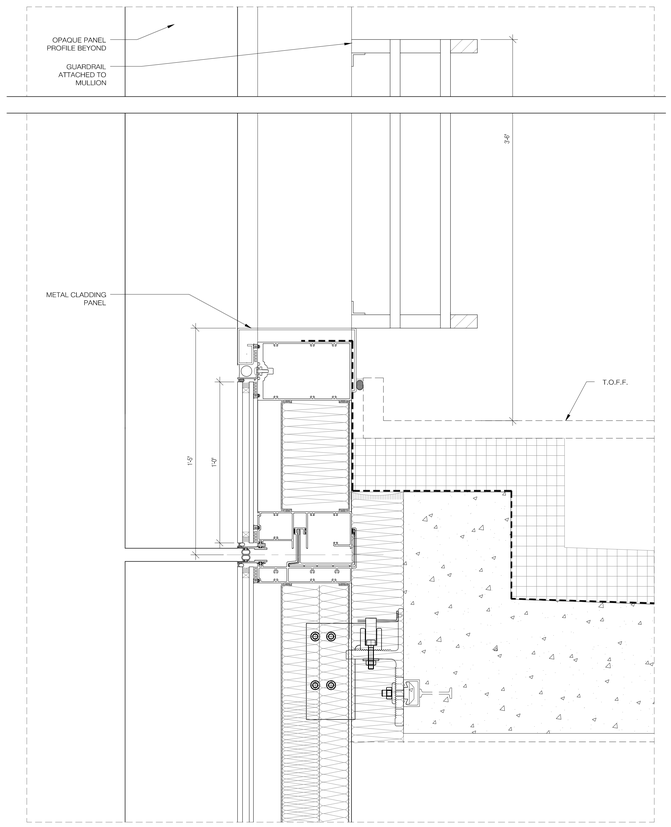


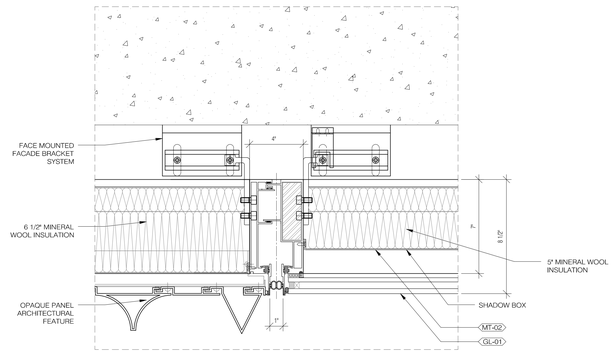
SECTION DETAIL - WT-02 AT SOFFIT | 3" = 1'-0" | 7 / A-455.00



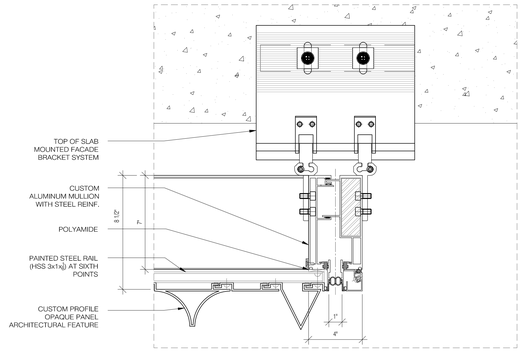
SECTION DETAIL - WT-02 ANCHOR AT INTERMEDIATE BEAM | 3" = 1'-0" | 6 / A-455.00



SECTION DETAIL - WT-02 AT GUARDRAIL | 3" = 1'-0" | 5 / A-455.00



PLAN DETAIL - WT-02 MULLION AT SPANDREL GLASS LOCATION | 3" = 1'-0" | 3 / A-455.00



PLAN DETAIL - WT-02 AND WT-03 TYPICAL MULLION AT SPANDREL TOP OF STEEL BEAM ATTACHMENT | 3" = 1'-0" | 1 / A-455.00

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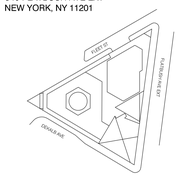

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PLAN AND SECTION DETAILS WT-02

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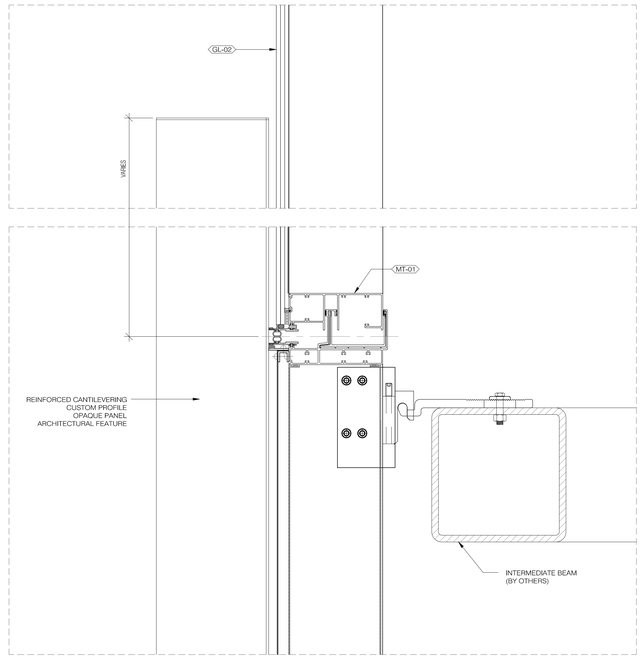
DATE	07/15/16
PROJECT NO.	1404229
DRAWN BY	sicho
CHECKED BY	SP
JOB NO.	320914338
DRAWING NUMBER	A-455.00

REGISTERED ARCHITECT GREGG L. PASQUARELLI STATE OF NEW YORK

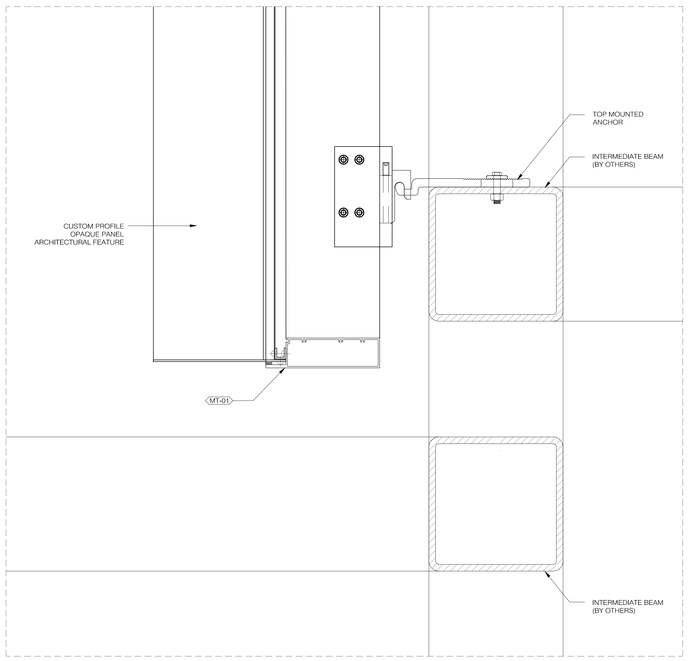
3/17/2016 10:14:08 AM

DEPT OF BUILDINGS 320914338 Job Number

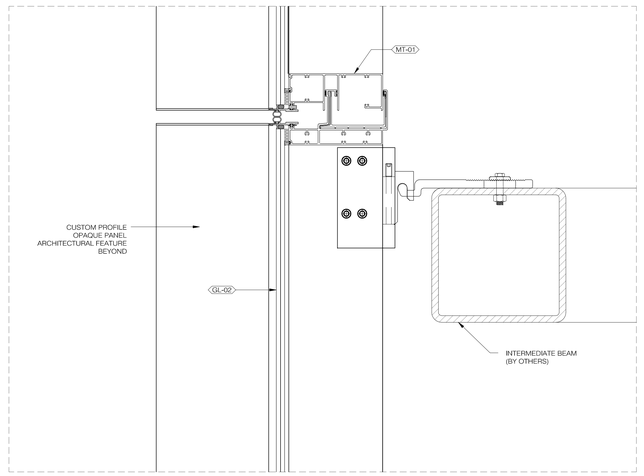
E1618350M00 Scan Code



SECTION DETAIL - WT-03 OVERLAP OF GLAZING WITH ARCHITECTURAL FEATURE PROFILES | 3" = 1'-0" | 2 / A-460.00



SECTION DETAIL - WT-03 AT SET BACK | 3" = 1'-0" | 3 / A-460.00



SECTION DETAIL - WT-03 TYPICAL SUPPORT BY PRIMARY STEEL STRUCTURE | 3" = 1'-0" | 1 / A-460.00

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JDS DEVELOPMENT GROUP
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ARCHITECT
SHoP ARCHITECTS, P.C.
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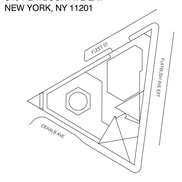

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DRAWING TITLE

PLAN AND SECTION DETAILS WT-03

SEAL & SIGNATURE

REGISTERED ARCHITECT JACQUELYN K. PASQUARELLI 026529 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	1-404229
DRAWN BY	sscho
CHECKED BY	SP
DOB NO.	320914338

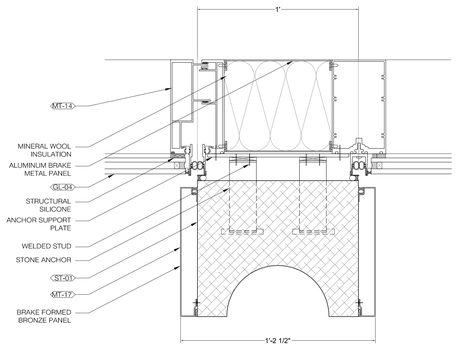
DRAWING NUMBER

A-460.00

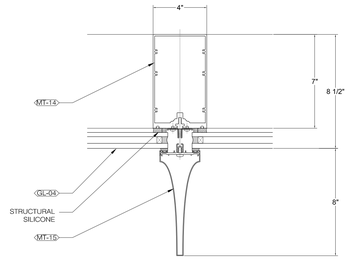
3/17/2016 10:14:08 AM

DEPT OF BUILDINGS 320914338 Job Number

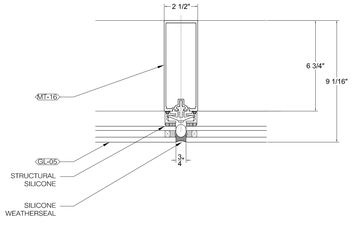
E-346853.PDF Scan Code



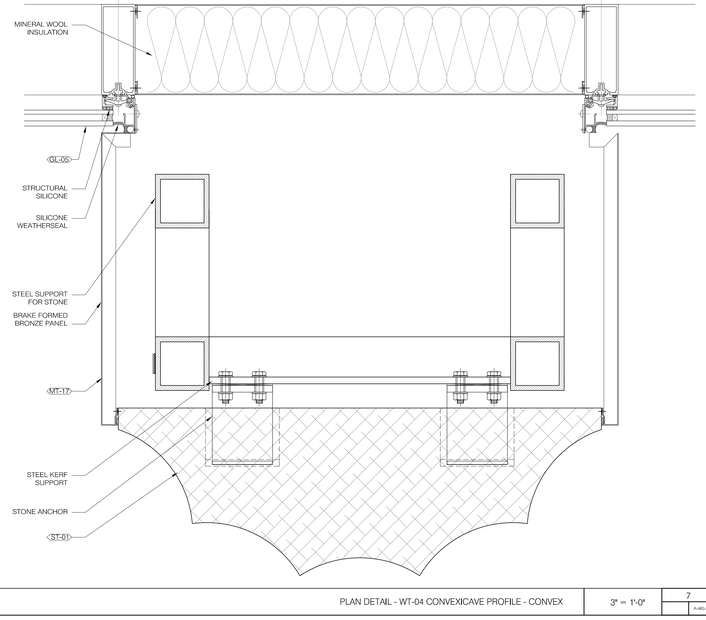
PLAN DETAIL - WT-04 AT STONE FIN | 3" = 1'-0" | 6 | A-465.00



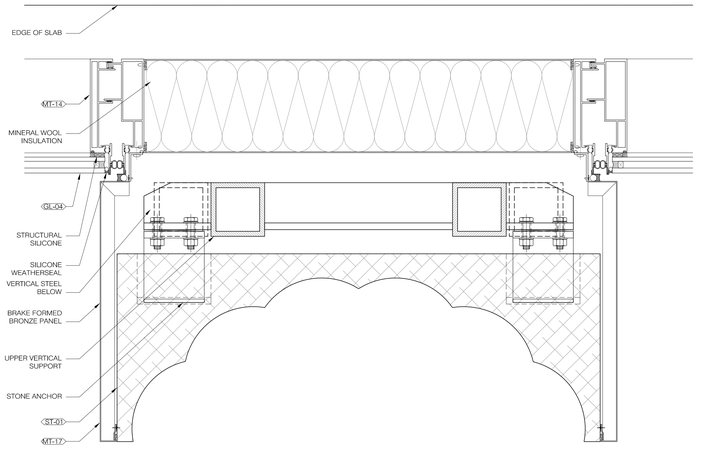
PLAN DETAIL - WT-04 MULLION AT METAL FIN | 3" = 1'-0" | 5 | A-465.00



PLAN DETAIL - WT-04 STOREFRONT MULLION | 3" = 1'-0" | 4 | A-465.00



PLAN DETAIL - WT-04 CONVEXICAVE PROFILE - CONVEX | 3" = 1'-0" | 7 | A-465.00



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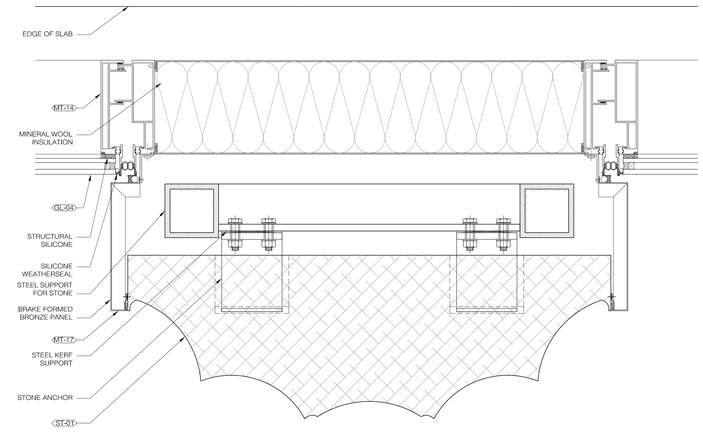
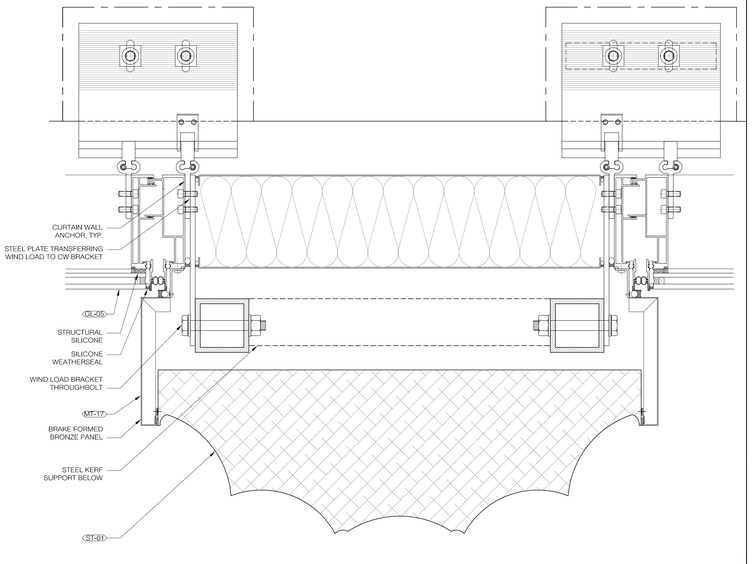


PLAN DETAIL - WT-04 CONVEXICAVE PROFILE - TRANSITION | 3" = 1'-0" | 2 | A-465.00



PLAN DETAIL - WT-04 CONVEXICAVE PROFILE - SLAB CONNECTION | 3" = 1'-0" | 1 | A-465.00

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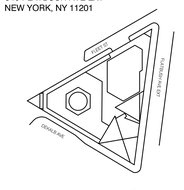

SITE DIAGRAM

07.03.14	DOB FILING SET		
07.01.16	FACADE BID PACKAGE		
DATE	ISSUE	NO.	DATE REVISION

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DRAWING TITLE

PLAN DETAILS WT-04

SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASQUARELLI 026029 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	AM
CHECKED BY	sischo
DOB NO.	320914338
DRAWING NUMBER	A-465.00

3/2/2016 11:43:54 AM

DEPT OF BUILDINGS 320914338 Job Number

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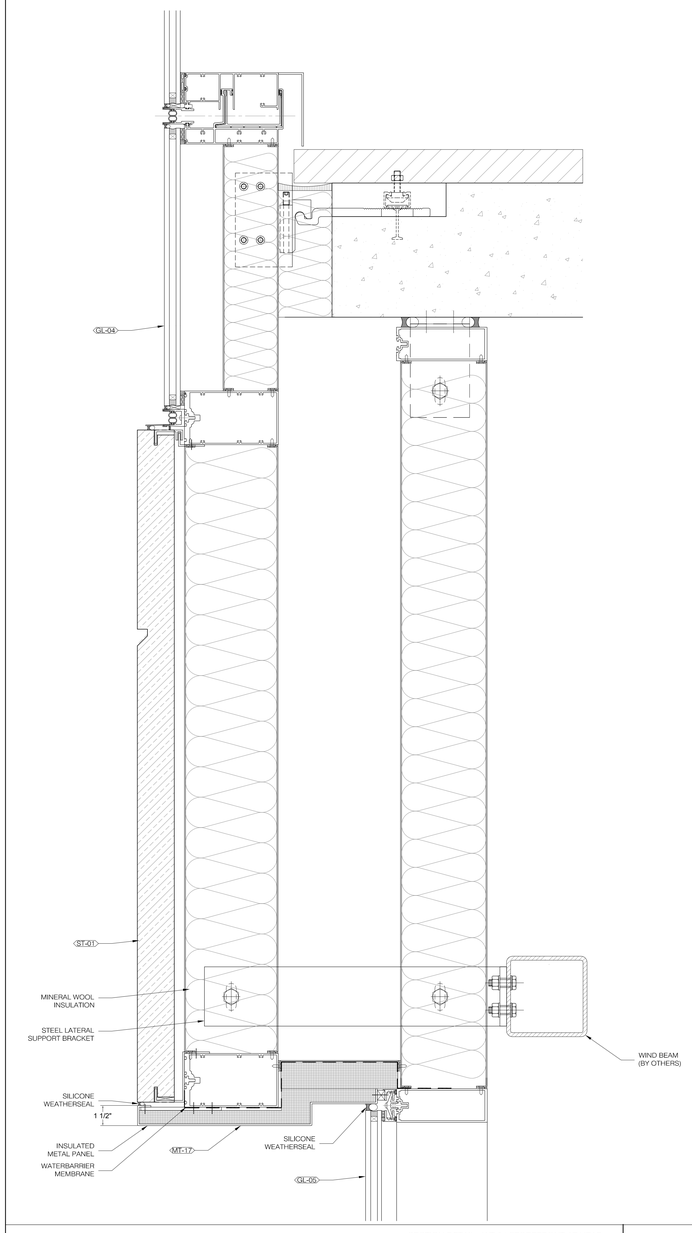
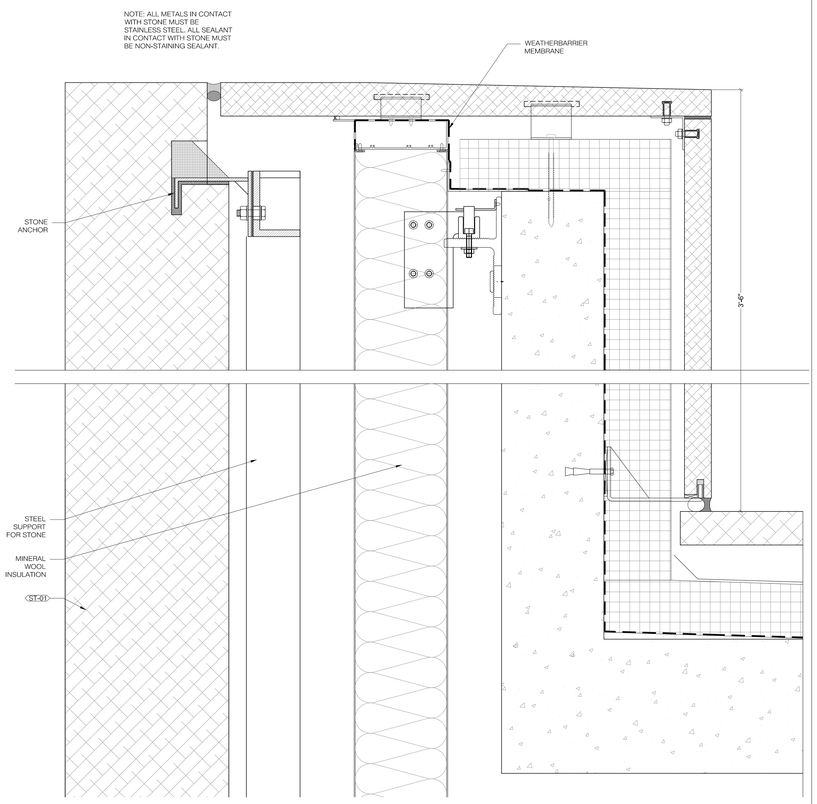
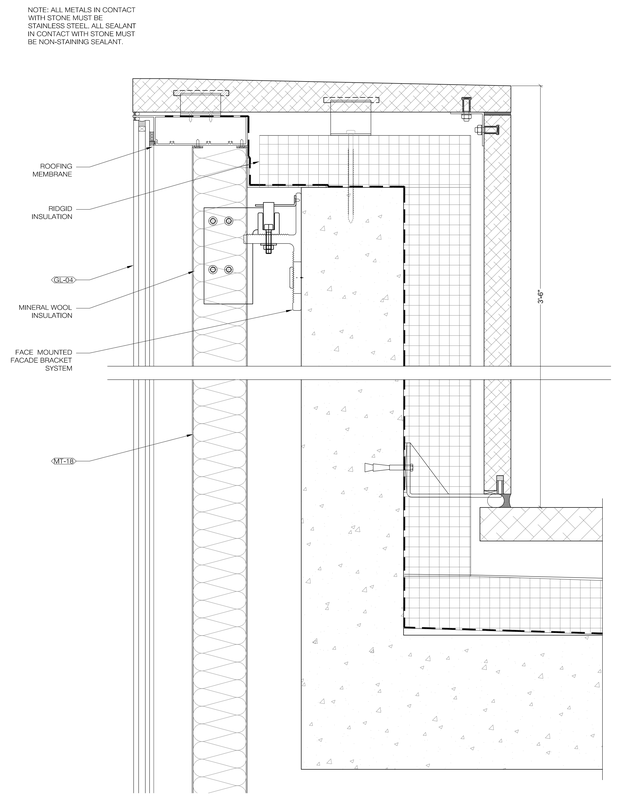


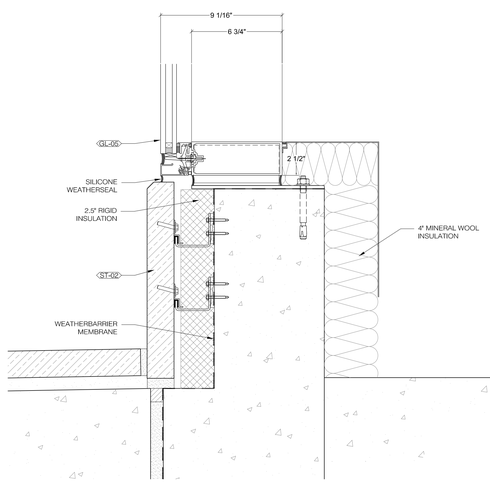
SECTION DETAIL - WT-04 STOREFRONT AT HEAD | 3" = 1'-0" | 6 / A-470.00



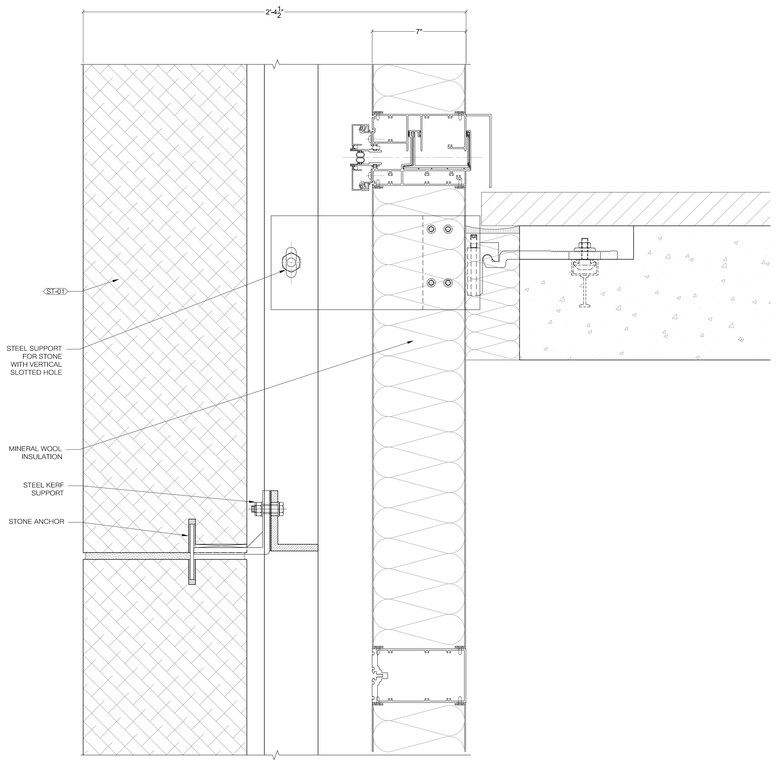
SECTION DETAIL - WT-04 PARAPET AT CONVEXICAVE PROFILE | 3" = 1'-0" | 4 / A-470.00



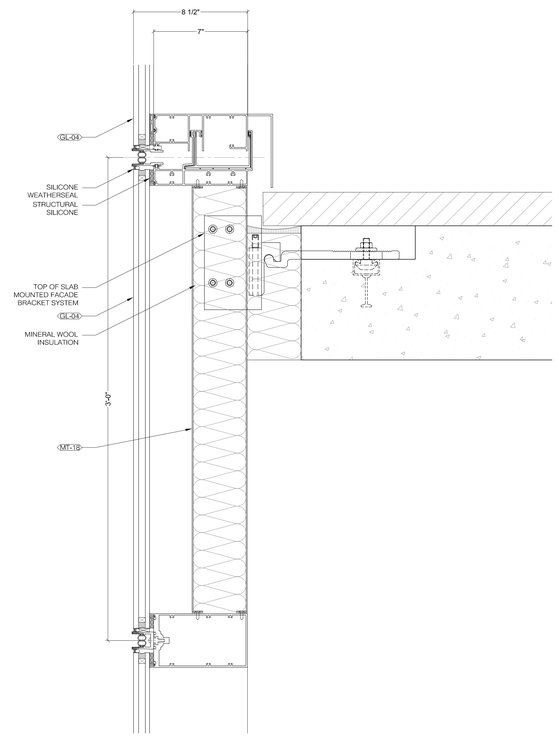
SECTION DETAIL - WT-04 PARAPET AT GLASS UNIT | 3" = 1'-0" | 2 / A-470.00



SECTION DETAIL - WT-04 STOREFRONT AT SILL | 3" = 1'-0" | 5 / A-470.00



SECTION DETAIL - WT-04 STACK JOINT AT CONVEXICAVE PROFILE | 3" = 1'-0" | 3 / A-470.00



SECTION DETAIL - WT-04 STACK JOINT AT GLASS | 3" = 1'-0" | 1 / A-470.00

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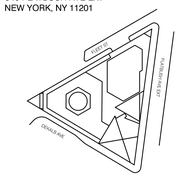

SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07.15.16	DOB FILING SET			
07/01/16	FACADE BID PACKAGE			

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DRAWING TITLE

SECTION DETAILS WT-04

SEAL & SIGNATURE

REGISTERED ARCHITECT THOMAS A. PAPOUTSIS 029009 STATE OF NEW YORK

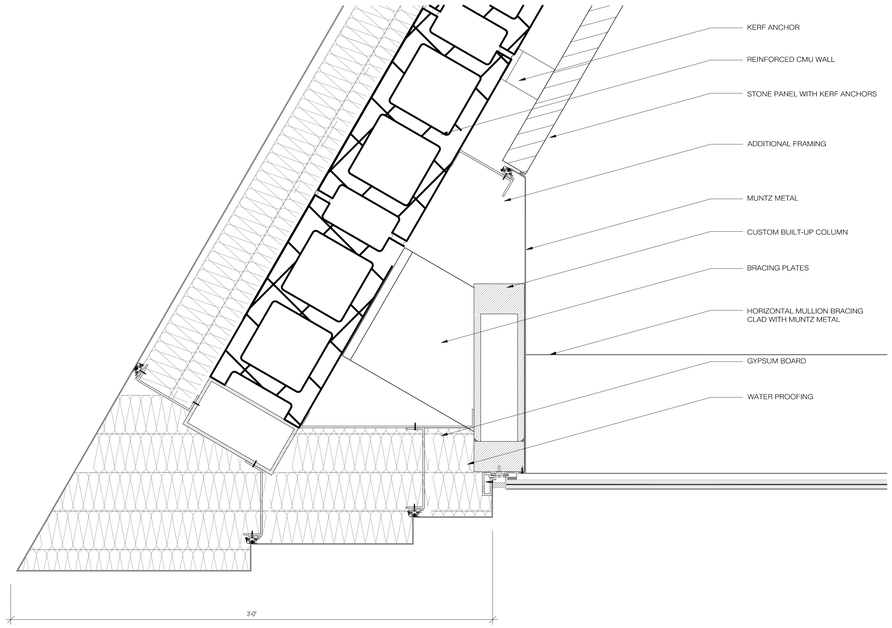
DATE	07/15/16
PROJECT NO.	1-404229
DRAWN BY	AM
CHECKED BY	sischo
DOB NO.	320914338

DRAWING NUMBER

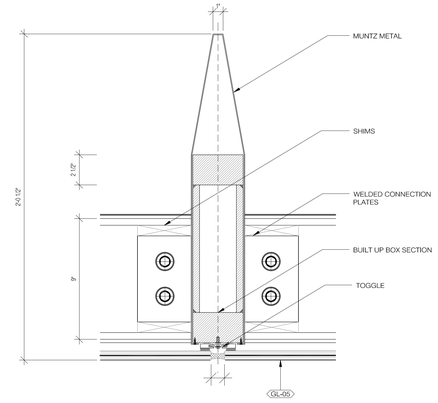
A-470.00

3/1/2016 10:15:05 AM

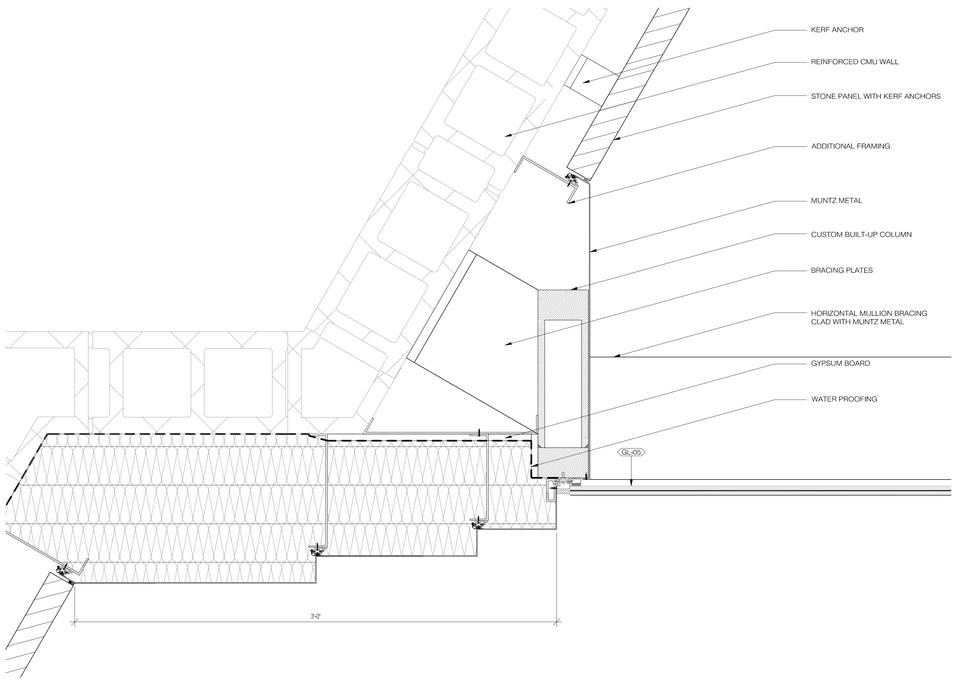
DEPT OF BLDGS 320914338 Job Number
E-SUBMISSION Scan Code



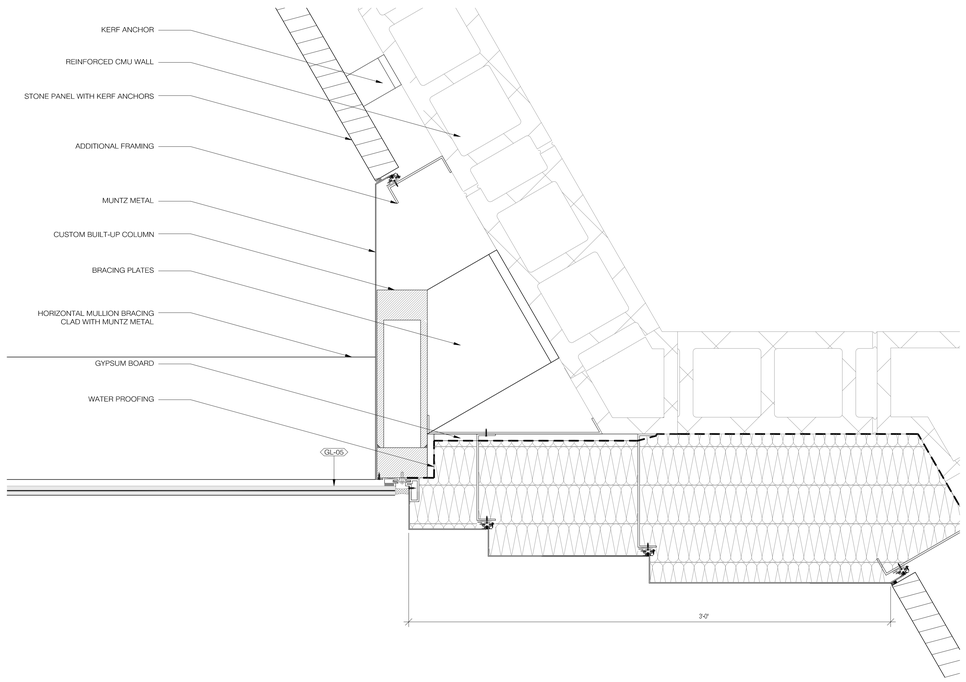
PLAN DETAIL - WT-05 - CONVEX CORNER ABOVE FIRE STAIR WALL | 3" = 1'-0" | 3 / A-475.00



PLAN DETAIL - WT-05 - VERTICAL TRUSS | 3" = 1'-0" | 1 / A-475.00



PLAN DETAIL - WT-05 - CONVEX CORNER AT FIRE STAIR WALL | 3" = 1'-0" | 2 / A-475.00



PLAN DETAIL - WT-05 - CONVEX CORNER AT WT-06 | 3" = 1'-0" | 0 / A-475.00

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WT-05 - PLAN DETAILS

SEAL & SIGNATURE

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DATE	07/15/16
PROJECT NO.	1404229
DRAWN BY	WW
CHECKED BY	sischo
DOB NO.	320914338

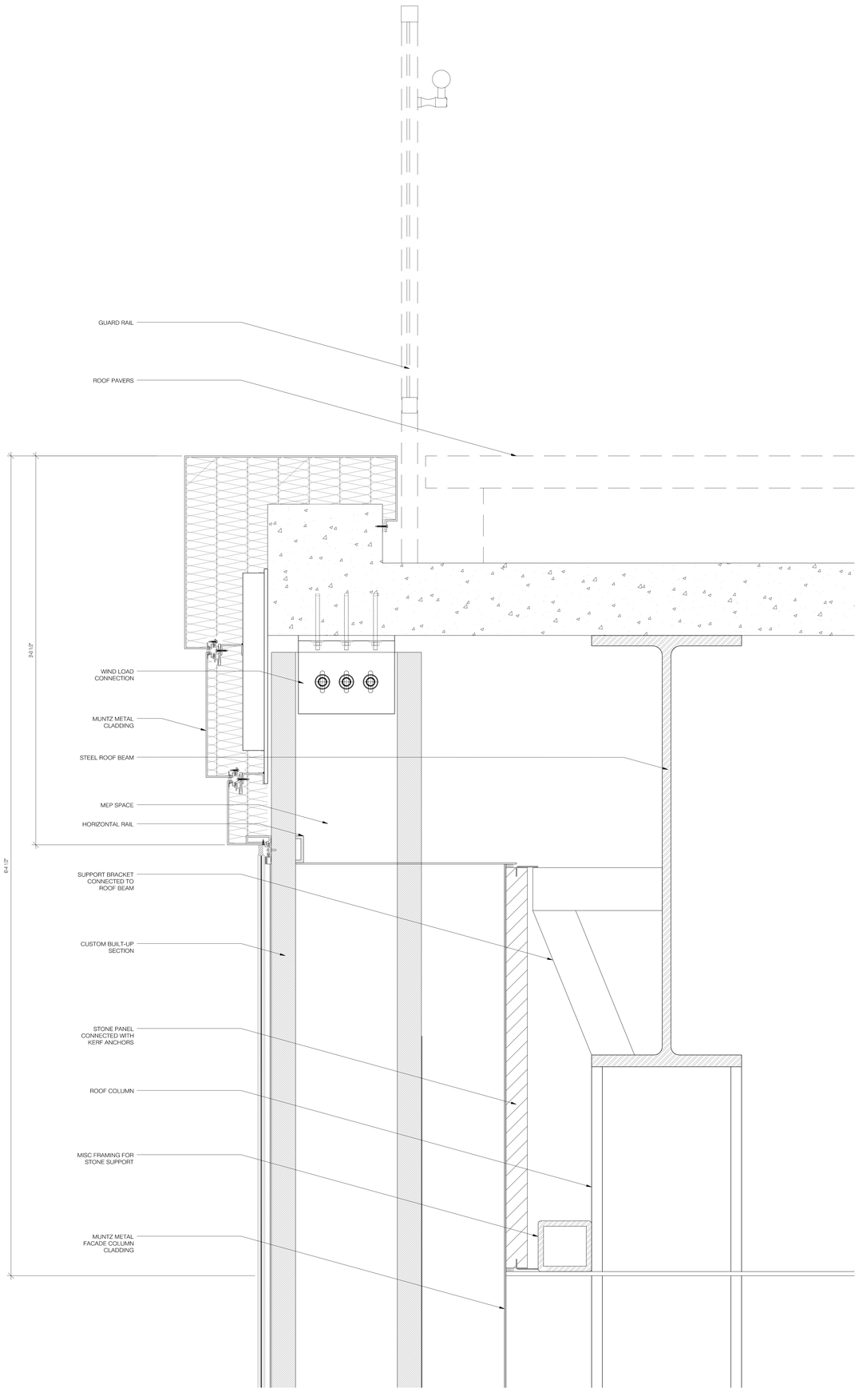
DRAWING NUMBER

A-475.00

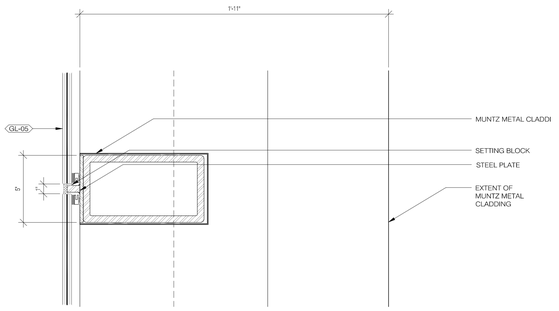
3/17/2016 10:14:08 AM

DEPT OF BUILDINGS 320934338 Job Number

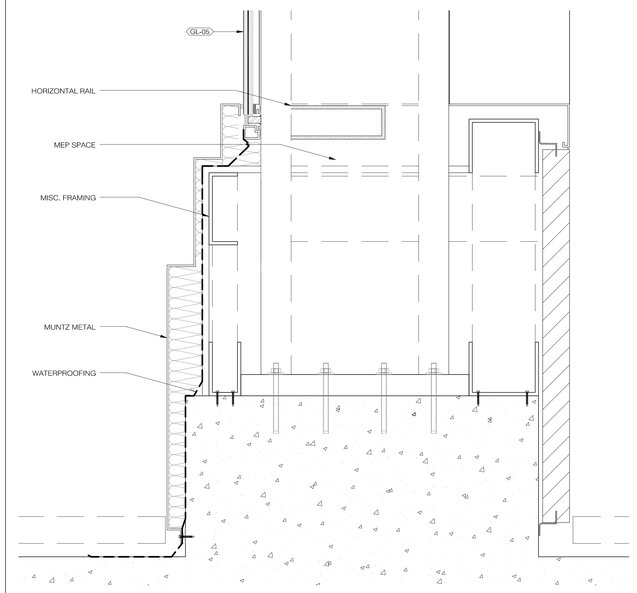
E320934338 Scan Code



SECTION DETAIL - WT-05 - ROOF/PARAPET | 3" = 1'-0" | 4 / A-476.00



SECTION DETAIL - WT-05 - HORIZONTAL JOINT | 3" = 1'-0" | 3 / A-476.00



SECTION DETAIL - WT-05 - BASE | 3" = 1'-0" | 1 / A-476.00

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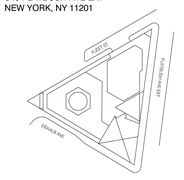
NEW YORK, NY 11201



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WT-05 SECTION DETAILS

SEAL & SIGNATURE

REGISTERED ARCHITECT GREGG A. PASQUARELLI 029998 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	WW
CHECKED BY	SS/CPG
DOB NO.	320934338

DRAWING NUMBER

A-476.00

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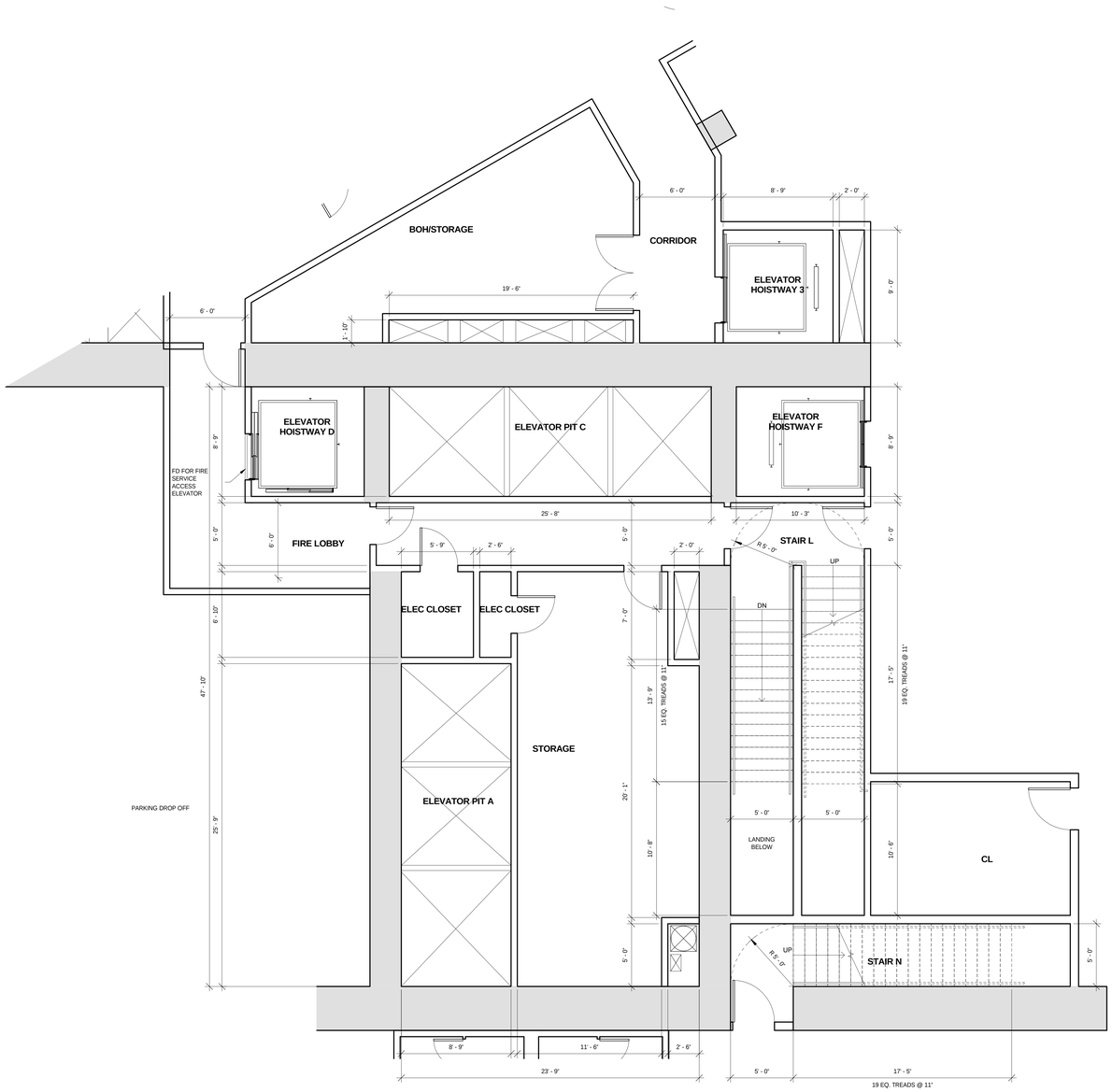
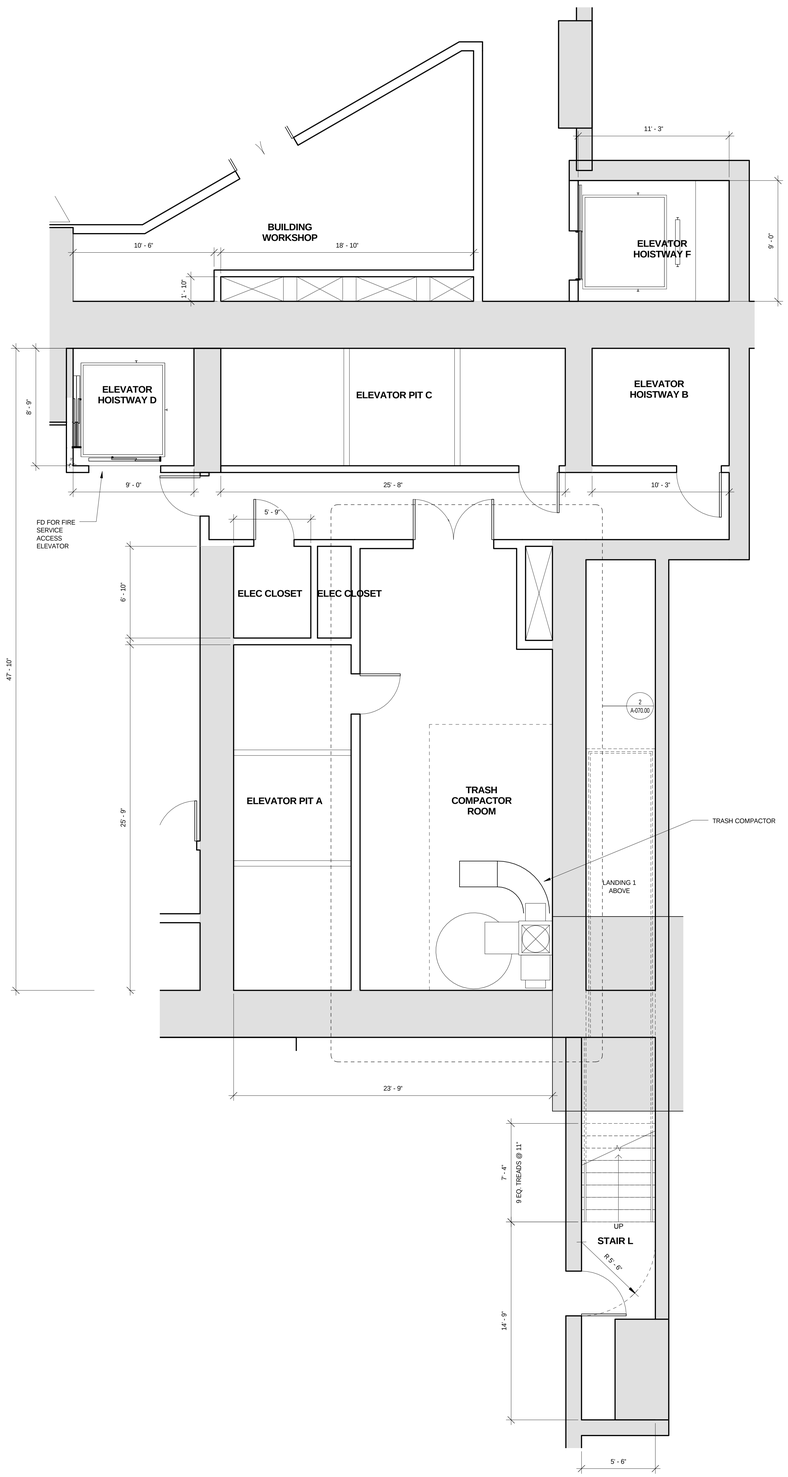
DEPT OF BLDGS 320914338 Job Number
E320003817F Scan Code



TOWER CORE - CELLAR | 1/4" = 1'-0" | 2 | A-500.00



TOWER CORE - SUBCELLAR | 1/4" = 1'-0" | 1 | A-500.00

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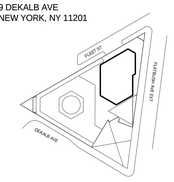

SITE DIAGRAM

07/15/16	DOB FILING SET
03/05/16	100% SD REASSESSMENT
05/05/15	DOB FILING SET
3/13/15	100% SCHEMATIC DESIGN

DATE ISSUE | NO. DATE REVISION

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DRAWING TITLE

CORE DETAILS

SEAL & SIGNATURE

REGISTERED ARCHITECT ROBERT A. PASQUARELLI 032224 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-500.00

DEPT OF BLDGS 320914338 Job Number

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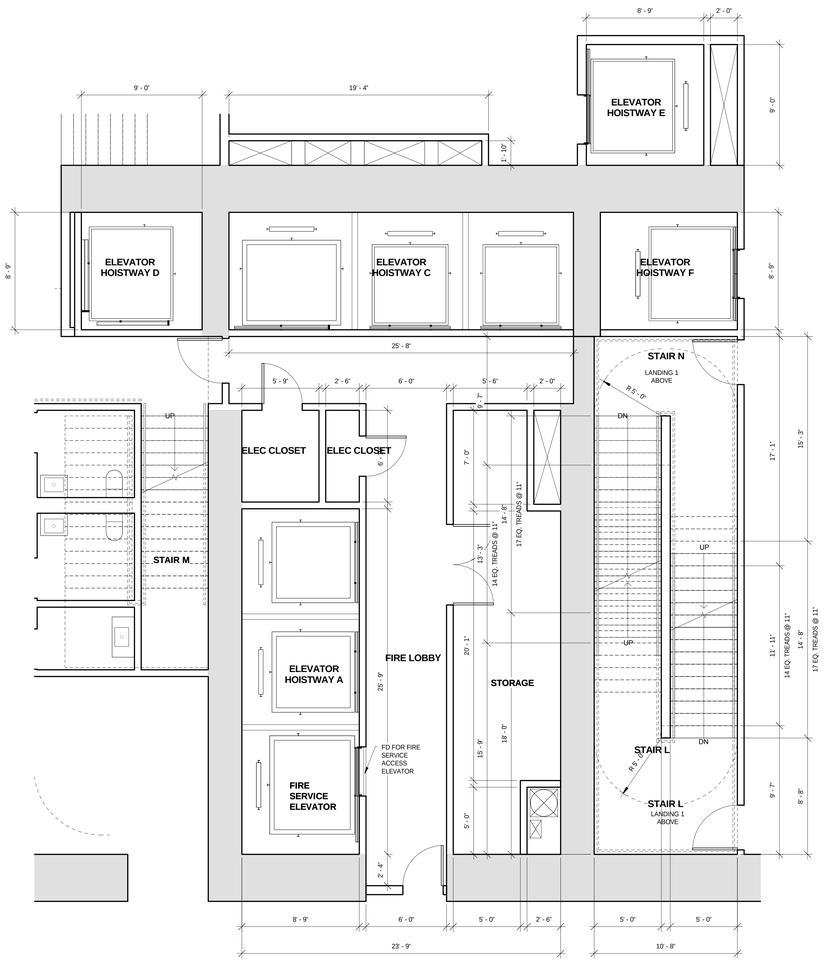
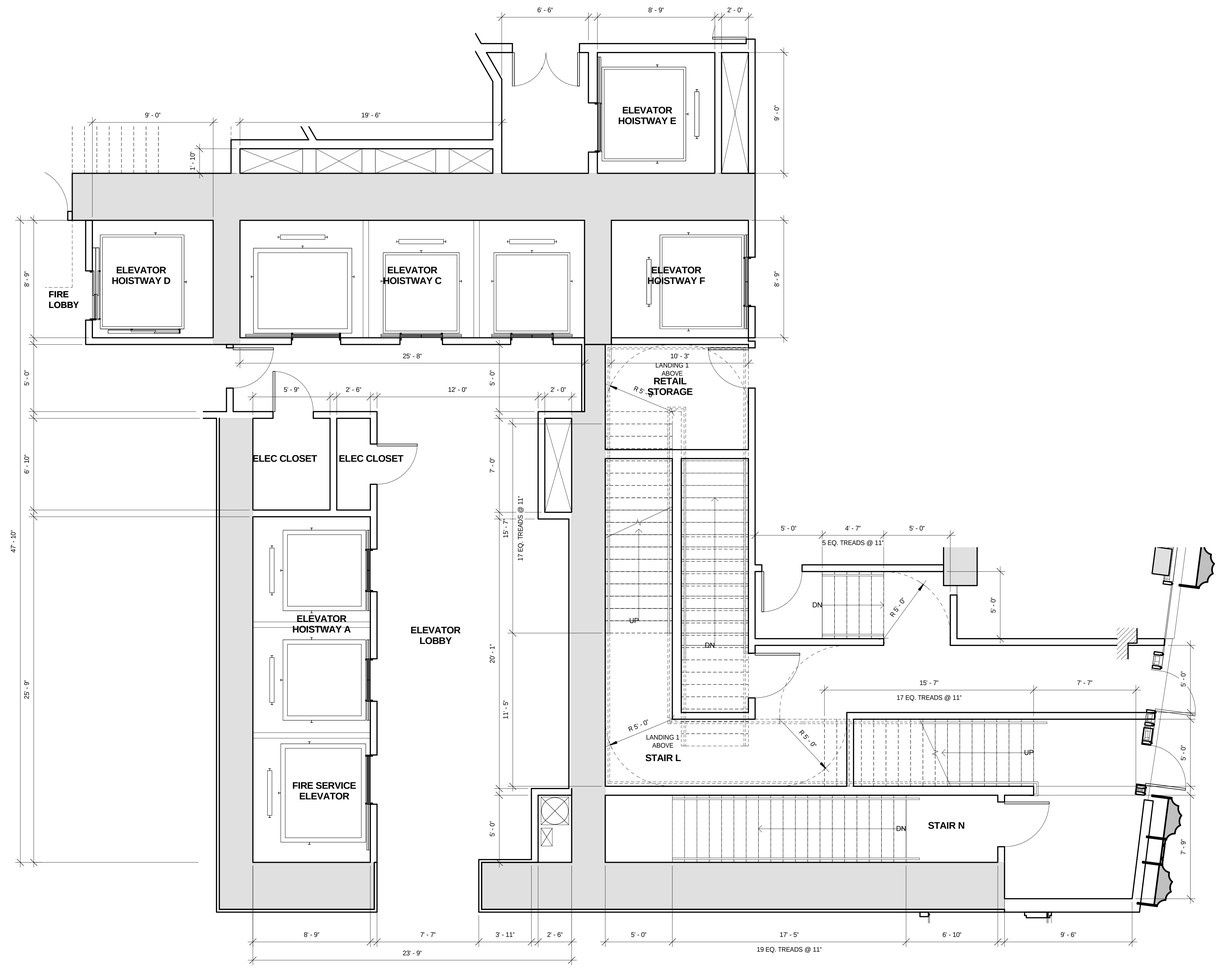


TOWER CORE - LEVEL 02 | 1/4" = 1'-0" | 2 | A-501.00



TOWER CORE - LEVEL 01 | 1/4" = 1'-0" | 1 | A-501.00

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tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
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tel 646.388.9828

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EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
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VIDARIS
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NEW YORK, NY 10010
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BURO HAPPOLD
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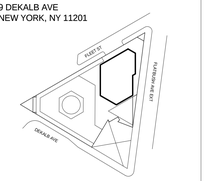

SITE DIAGRAM

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02/05/16	100% SD REASSESSMENT
05/05/15	DOB FILING SET
3/13/15	100% SCHEMATIC DESIGN

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CORE DETAILS

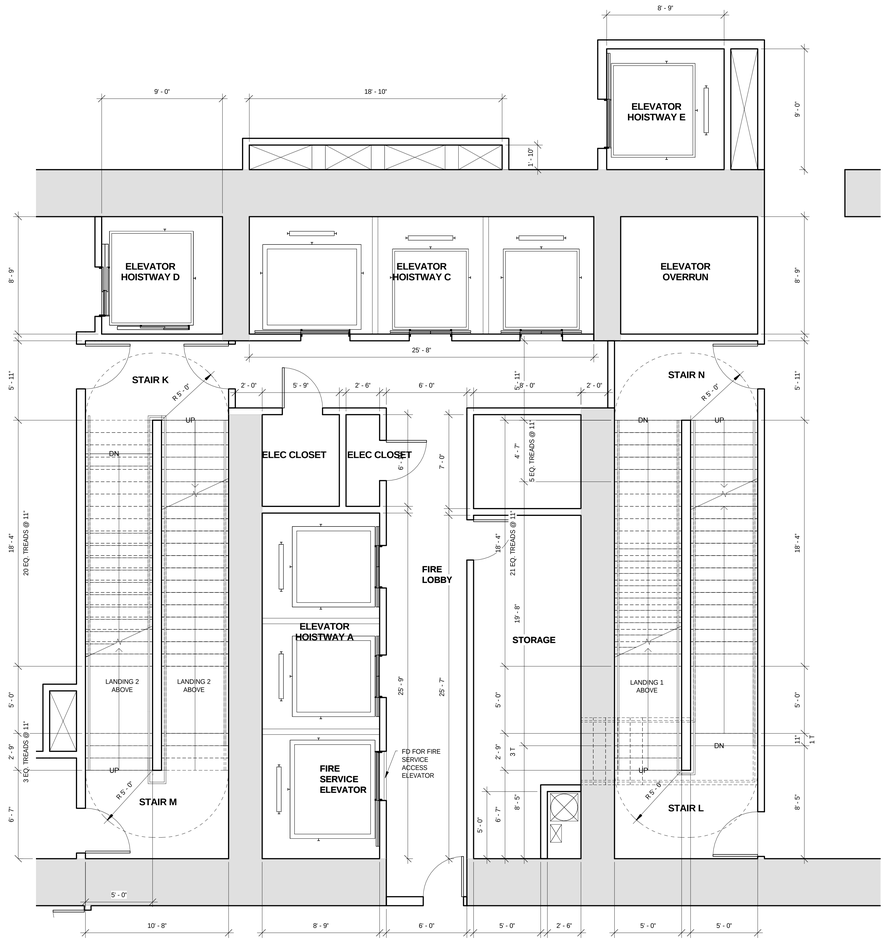
SEAL & SIGNATURE

REGISTERED ARCHITECT DEBRA L. PASQUARELLI STATE OF NEW YORK 026999

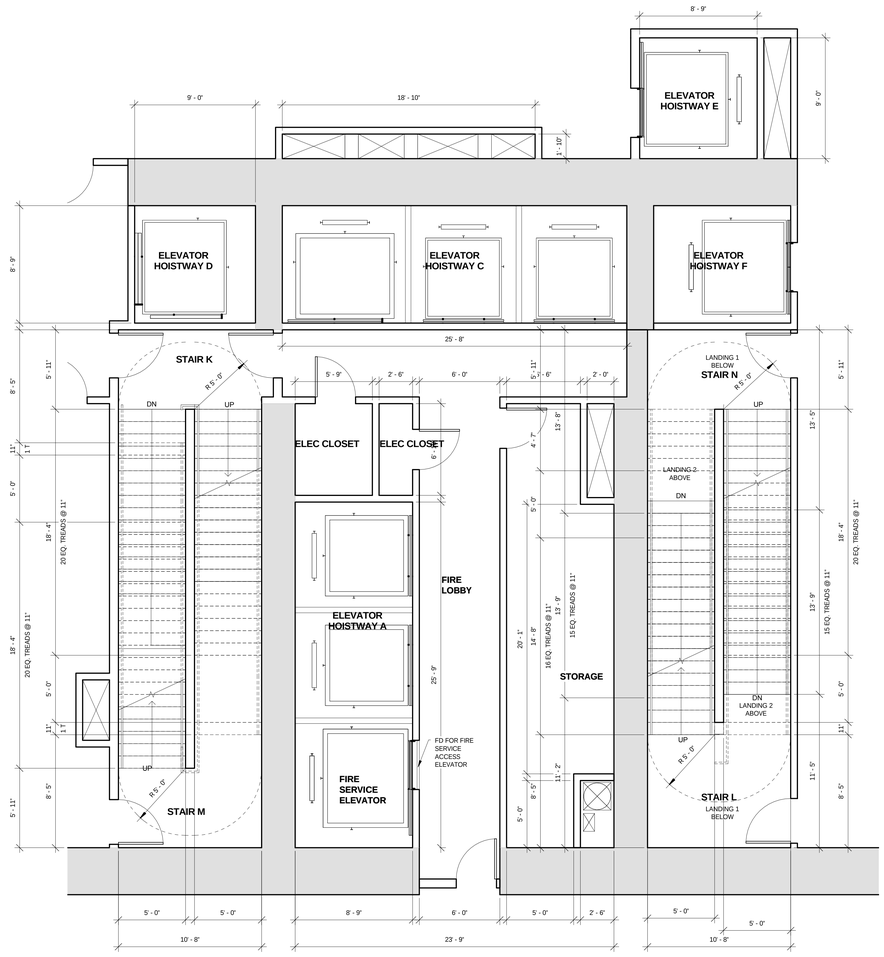
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-501.00

DEPT OF BLDGS 320914338 Job Number

B1516420254 Scan Code



TOWER CORE - LEVEL 04 | 1/4" = 1'-0" | 1 | A-502.00



TOWER CORE - LEVEL 03 | 1/4" = 1'-0" | 2 | A-502.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
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232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
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NEW YORK, NY 10005
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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 45TH STREET
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GEOTECHNICAL ENGINEER
MRCE
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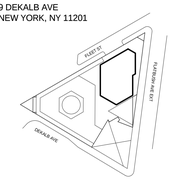

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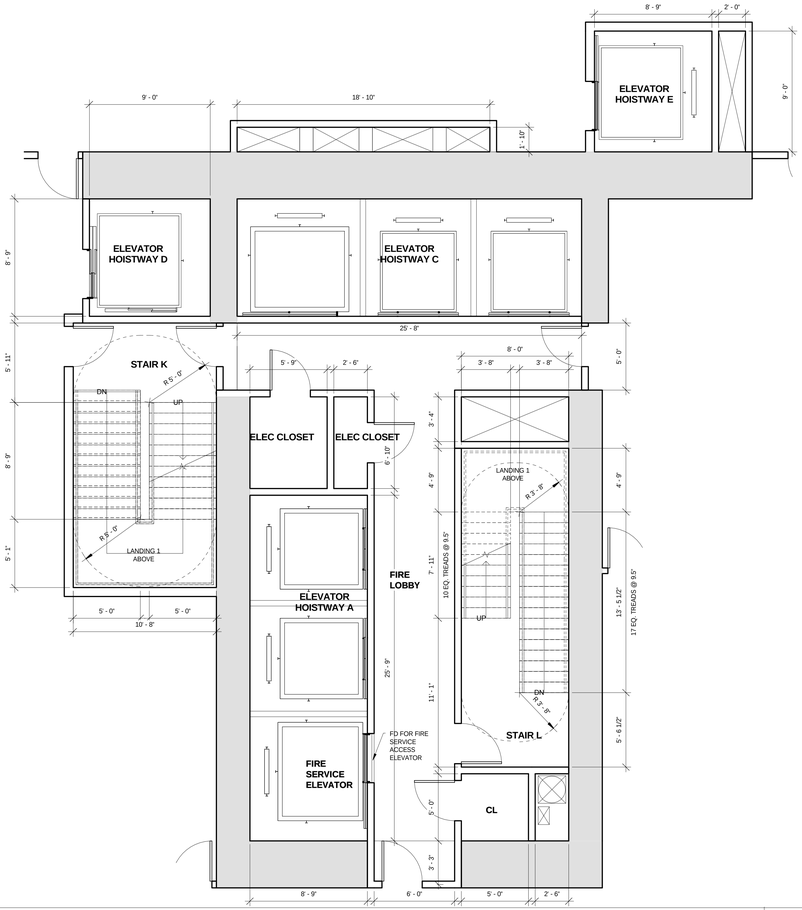
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

A-502.00

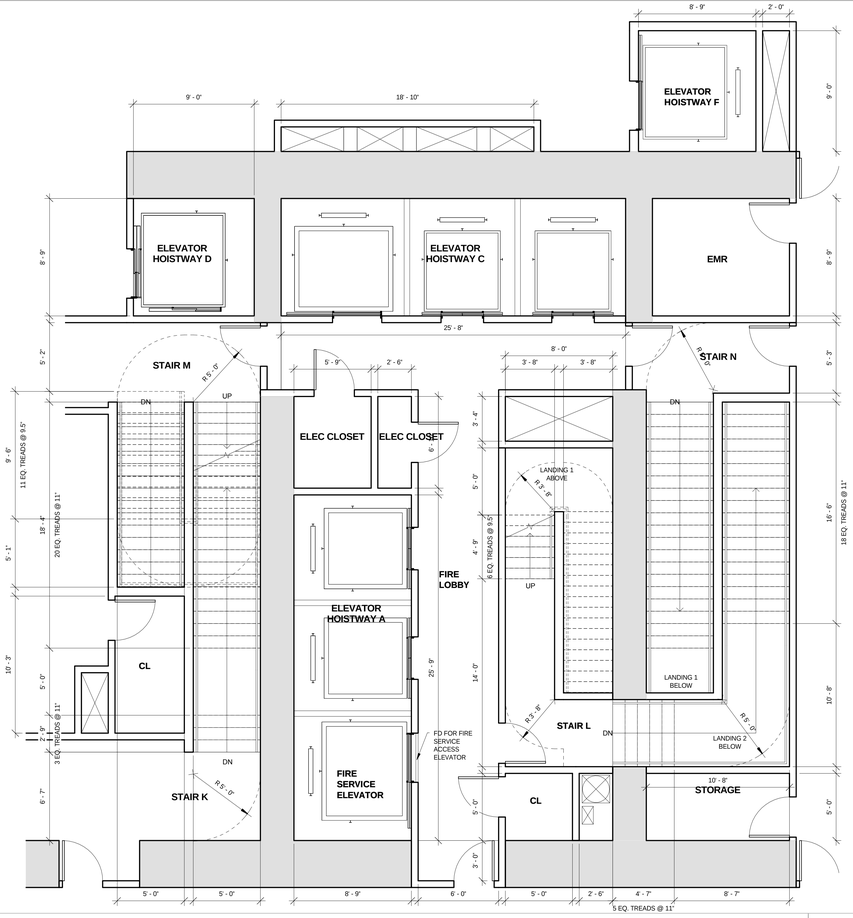
DEPT OF BLDGS 320914338 Job Number

E 3308814997 35 Scan Code



TOWER CORE - LEVEL 06 | 1/4" = 1'-0" | 3 | A-503.00

TOWER CORE - LEVEL 07 | 1/4" = 1'-0" | 2 | A-503.00



TOWER CORE - LEVEL 05 | 1/4" = 1'-0" | 1 | A-503.00

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MEP ENGINEER
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NEW YORK, NY 10018
tel 212.315.6400

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HACKENSACK, NJ 07601
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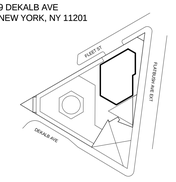

SITE DIAGRAM

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05/05/15	DOB FILING SET		
3/13/15	100% SCHEMATIC DESIGN		
DATE	ISSUE	NO.	DATE REVISION

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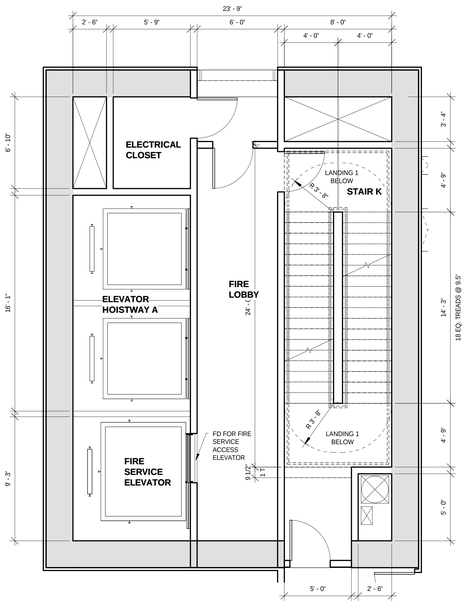
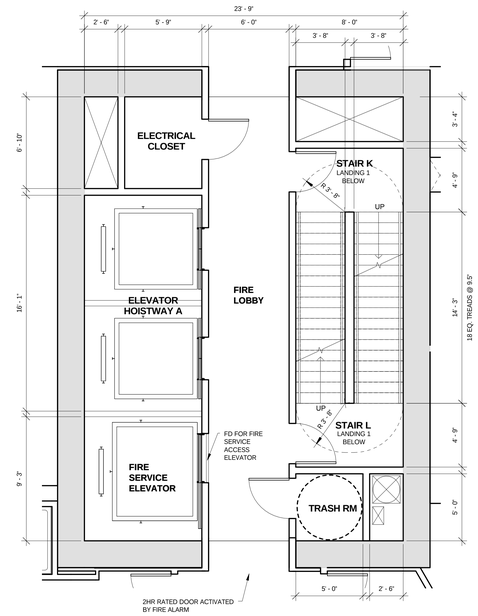
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-503.00

DEPT OF BLDGS 320914338 Job Number

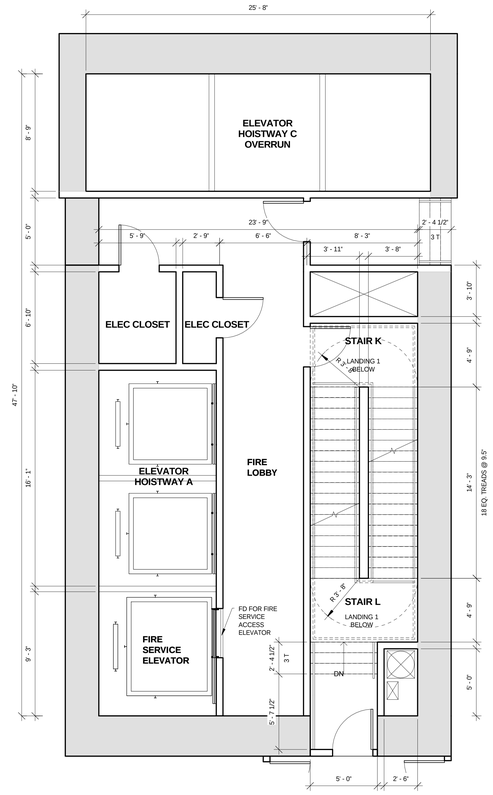
E 5990004778 Sheet Code



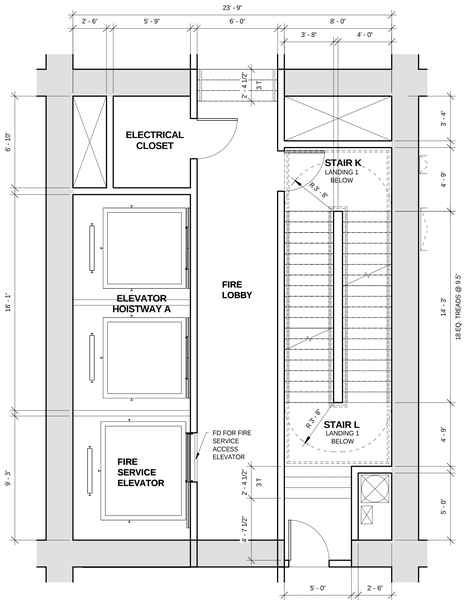
TOWER CORE - LEVEL 50 | 1/4" = 1'-0" | 6 | A-504.00



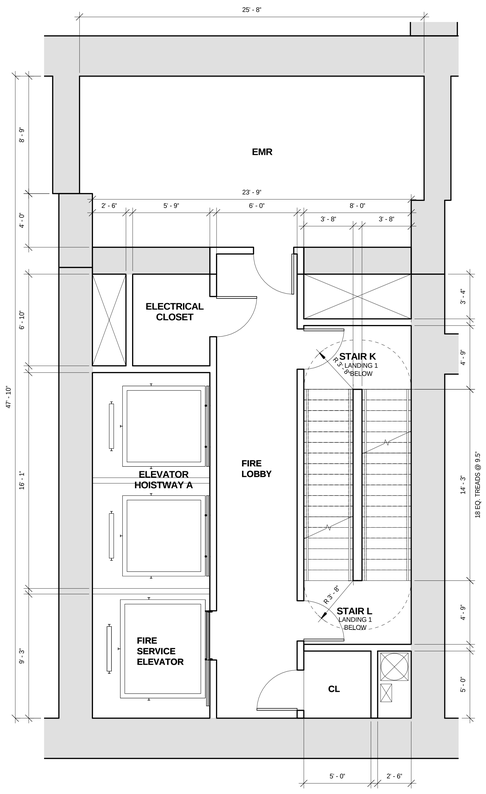
TOWER CORE - LEVEL 28 TO 71 | 1/4" = 1'-0" | 4 | A-504.00



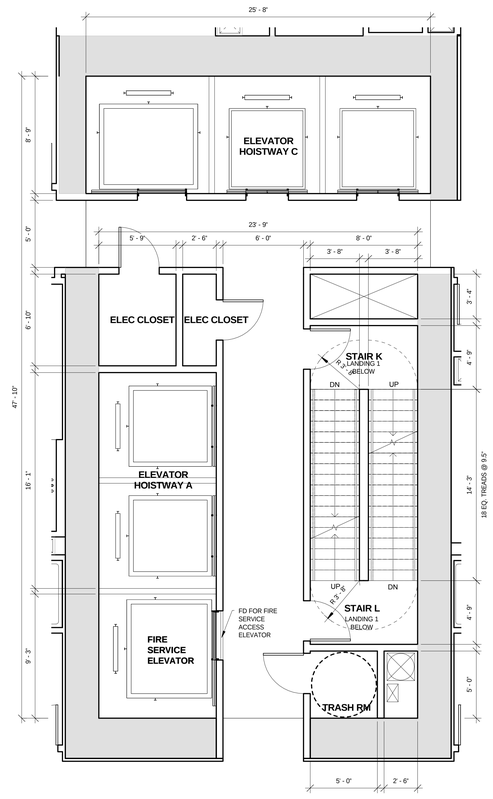
TOWER CORE - LEVEL 27 | 1/4" = 1'-0" | 2 | A-504.00



TOWER CORE - LEVEL 49 | 1/4" = 1'-0" | 5 | A-504.00



TOWER CORE - LEVEL 27 MEZZ | 1/4" = 1'-0" | 3 | A-504.00



TOWER CORE - LEVEL 08 TO 27 | 1/4" = 1'-0" | 1 | A-504.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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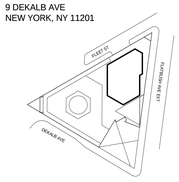

SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
02/05/16	100% SD REASSESSMENT

NO.	DATE	REVISION

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DRAWING TITLE

CORE DETAILS

SEAL & SIGNATURE

REGISTERED ARCHITECT GREGORY A. PASQUARELLI 026926 STATE OF NEW YORK

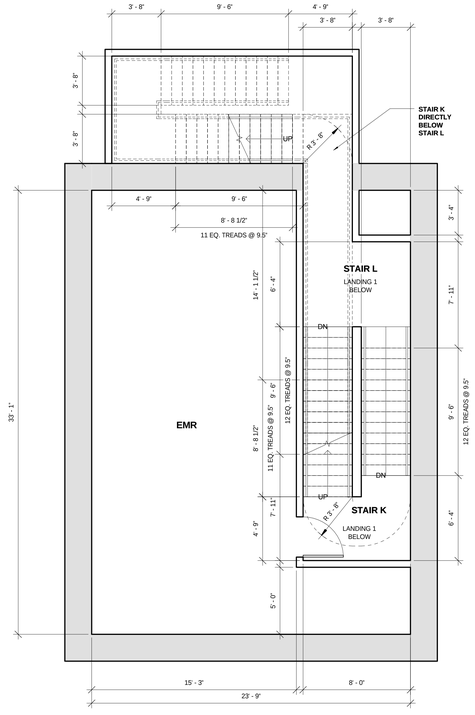
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

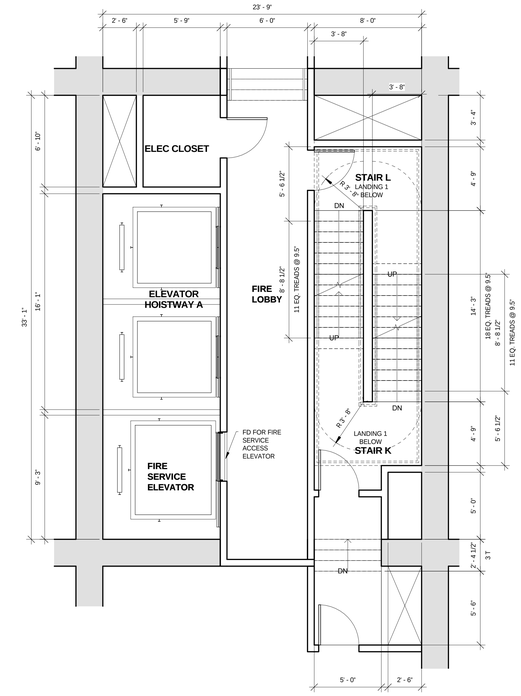
A-504.00

DEPT OF BLDGS 320014338 Job Number

E1341888003 Scan Code



TOWER CORE - LEVEL 72 +32' | 1/4" = 1'-0" | 4 | A-505.00



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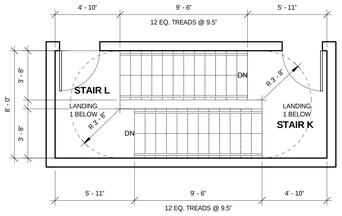
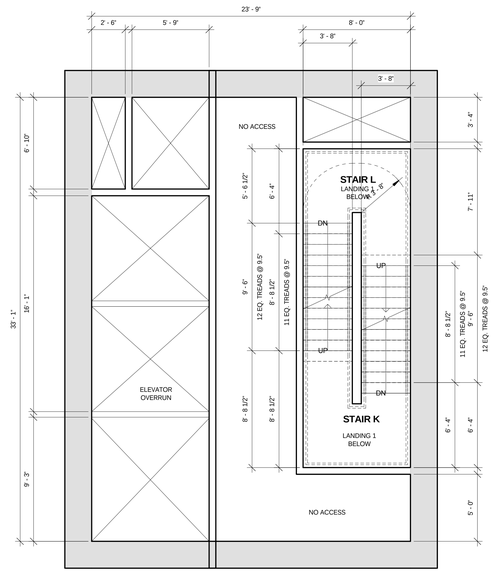
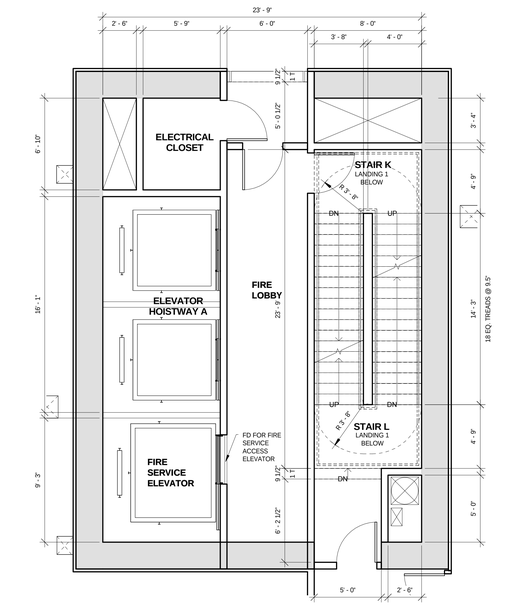


TOWER CORE - ROOF | 1/4" = 1'-0" | 5 | A-505.00



TOWER CORE - LEVEL 72 +16' | 1/4" = 1'-0" | 3 | A-505.00



TOWER CORE - LEVEL 65 | 1/4" = 1'-0" | 1 | A-505.00

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ARCHITECT
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NEW YORK, NY 10279
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NEW YORK, NY 10017
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MRCE
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tel 917.661.7800

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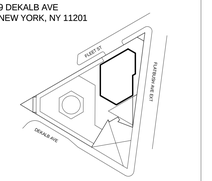

SITE DIAGRAM

07/15/16 DOB FILING SET

03/05/16 100% SD REASSESSMENT

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DRAWING TITLE

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SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASQUARELLI 026292 STATE OF NEW YORK

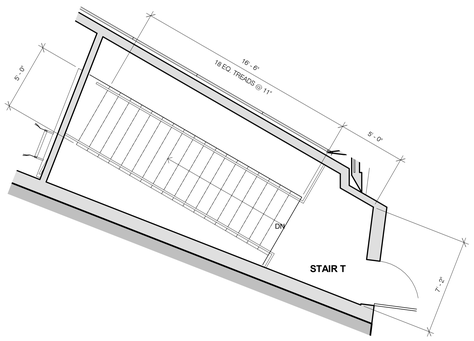
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

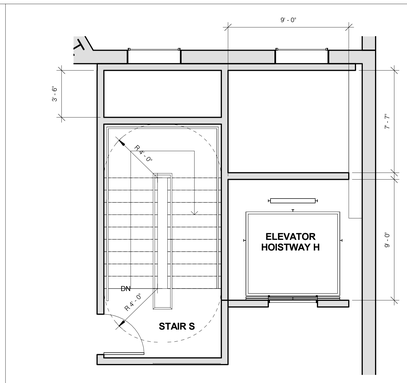
A-505.00

DEPT OF BLDGS 320914338 Job Number

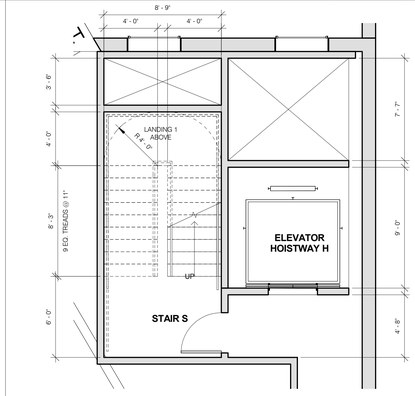
E1521482626 Scan Code



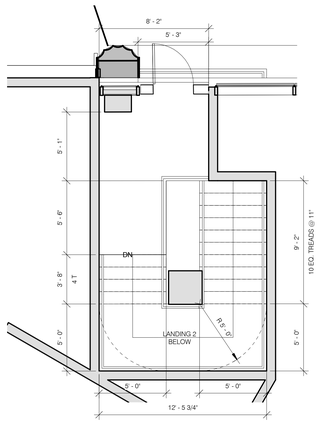
STAIR T - LEVEL 01 | 1/4" = 1'-0" | 10 | A-510.00



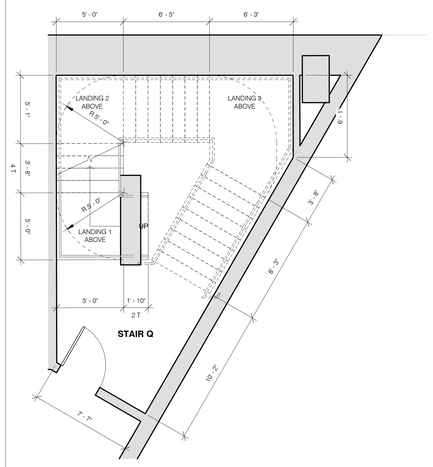
STAIR S - LEVEL 04 | 1/4" = 1'-0" | 4 | A-510.00



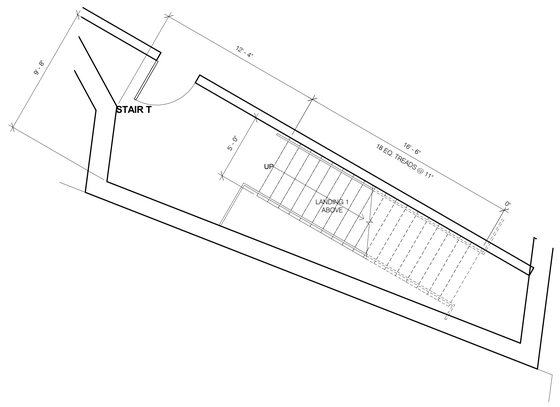
STAIR S - LEVEL 01, MEZZANINE 03 | 1/4" = 1'-0" | 3 | A-510.00



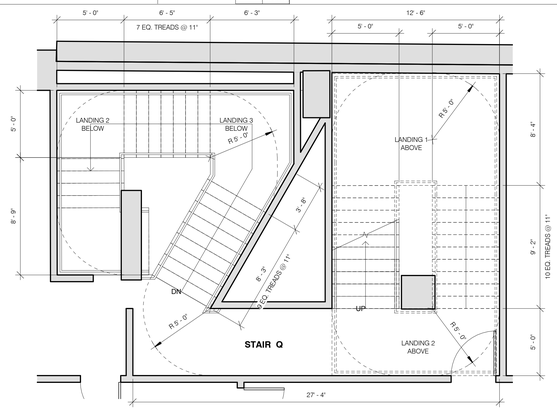
STAIR Q - LEVEL 01 | 1/4" = 1'-0" | 8 | A-510.00



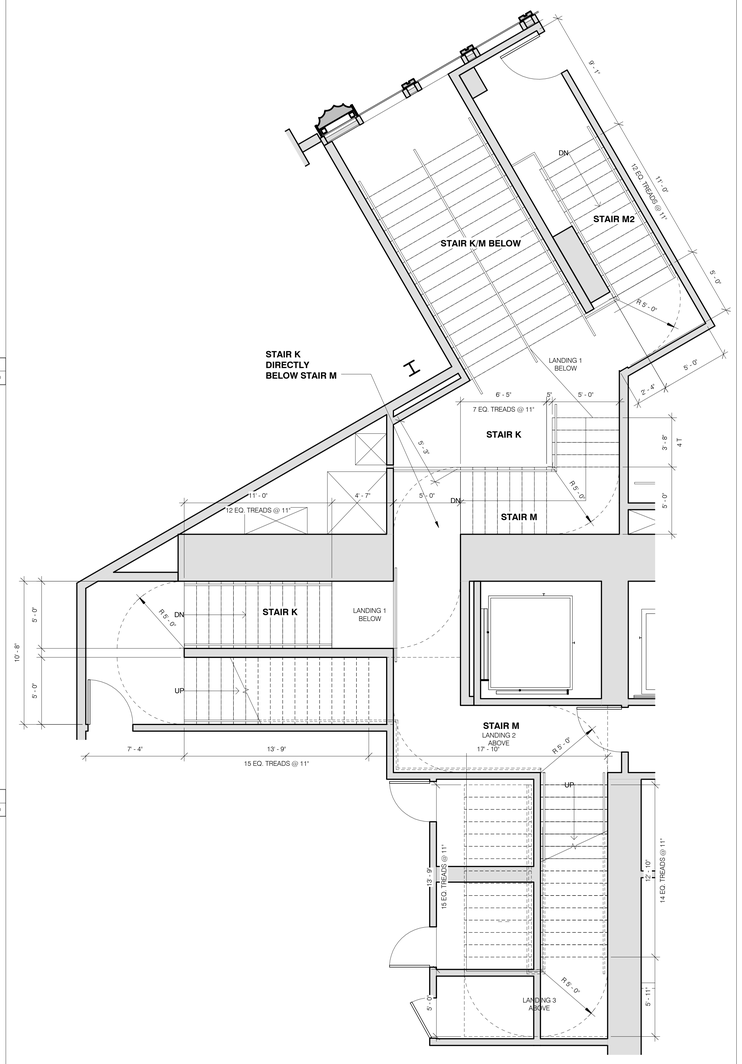
STAIR Q - SUBCELLAR | 1/4" = 1'-0" | 6 | A-510.00



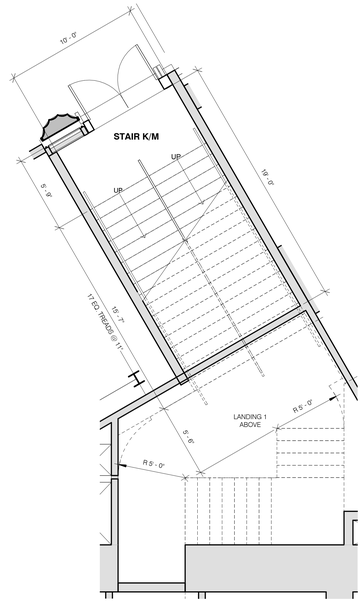
STAIR T - CELLAR | 1/4" = 1'-0" | 9 | A-510.00



STAIR Q - CELLAR | 1/4" = 1'-0" | 7 | A-510.00



STAIR K / M - LEVEL 02 | 1/4" = 1'-0" | 2 | A-510.00



STAIR K / M - LEVEL 01 | 1/4" = 1'-0" | 1 | A-510.00

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SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
10/06/16	DOB FILING SET REV 2			
07/15/16	DOB FILING SET			
02/05/16	100% SD REASSESMENT			
05/05/15	DOB FILING SET			
3/13/15	100% SCHEMATIC DESIGN			

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DRAWING TITLE

STAIR ENLARGED PLANS - STAIR K / M / Q / S / T

SEAL & SIGNATURE

REGISTERED ARCHITECT GREG A. PASQUARELLI 026905 STATE OF NEW YORK

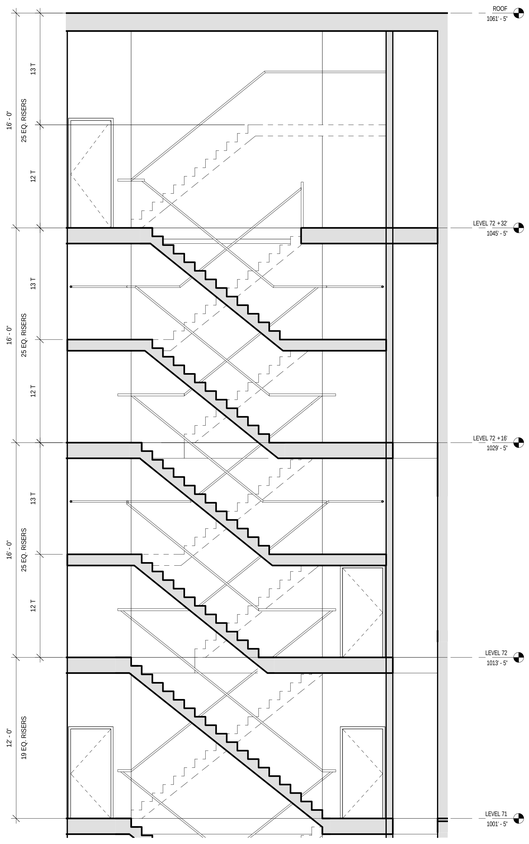
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
JOB NO.	320914338

DRAWING NUMBER

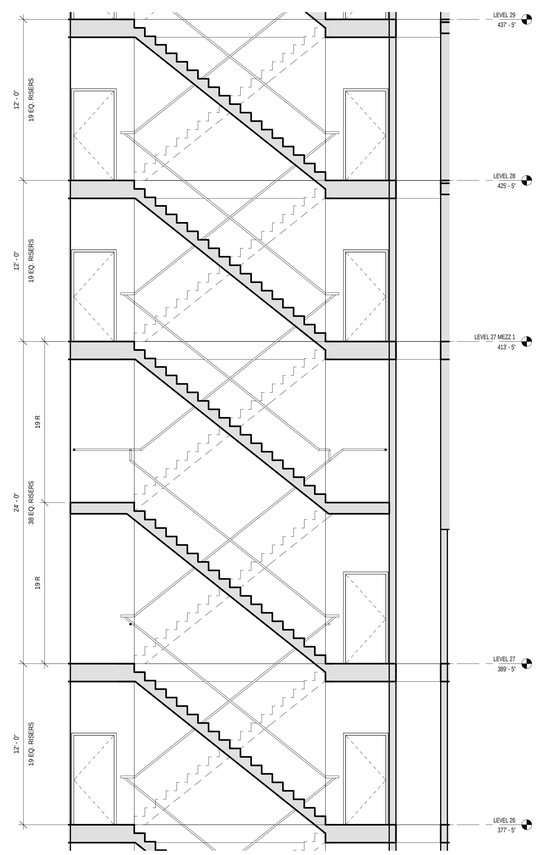
A-510.00

DEPT OF BLDGS 320014338 Job Number

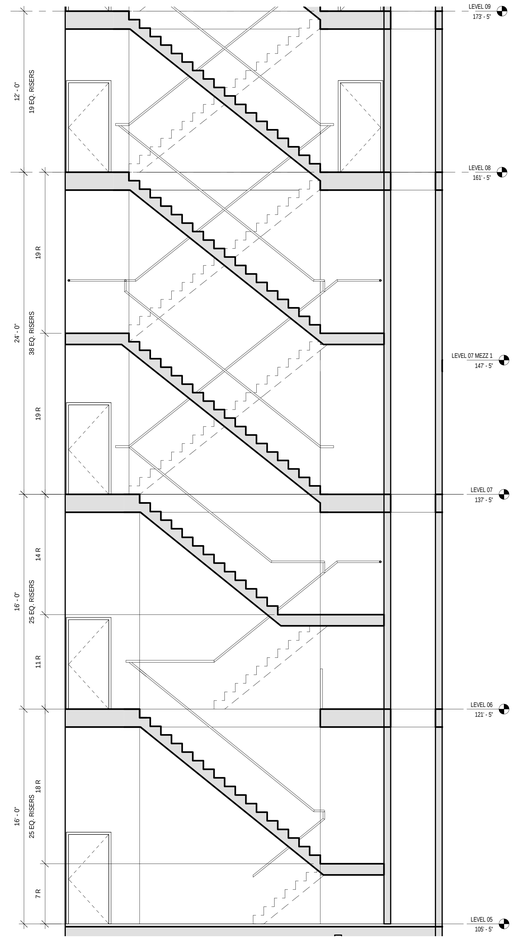
E350048348SD Scan Code



ENLARGED TOWER STAIR SECTION - LEVELS 71 TO ROOF | 1/4" = 1'-0" | 3 | A-520.00



ENLARGED TOWER STAIR SECTION - TYPICAL | 1/4" = 1'-0" | 2 | A-520.00



ENLARGED TOWER STAIR SECTION - LEVELS 05 TO 09 | 1/4" = 1'-0" | 1 | A-520.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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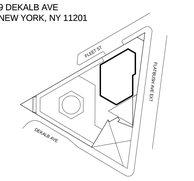

SITE DIAGRAM

07/15/16 DOB FILING SET

02/05/16 100% SO REASSESSMENT

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

STAIR ENLARGED SECTIONS

SEAL & SIGNATURE

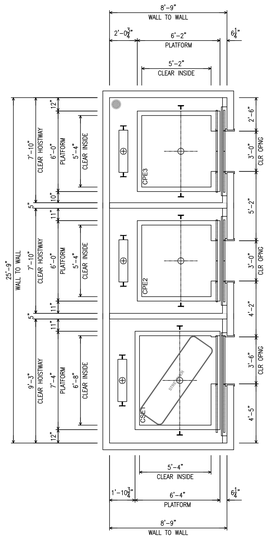
REGISTERED ARCHITECT GREGORY A. PASQUARELLI STATE OF NEW YORK 029209

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

A-520.00

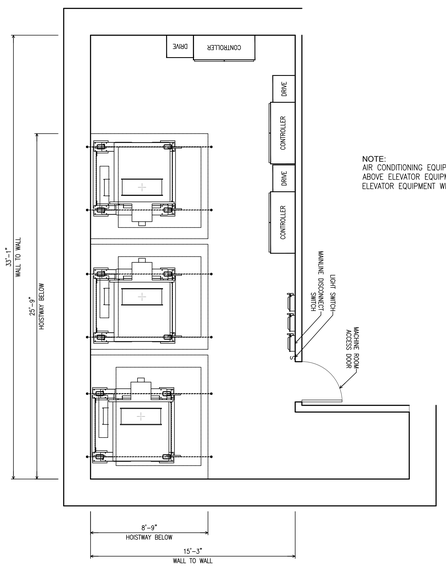
DEPT OF BLDGS 320914338 Job Number
E357/05/2045 Scan Code



HATCH PLAN

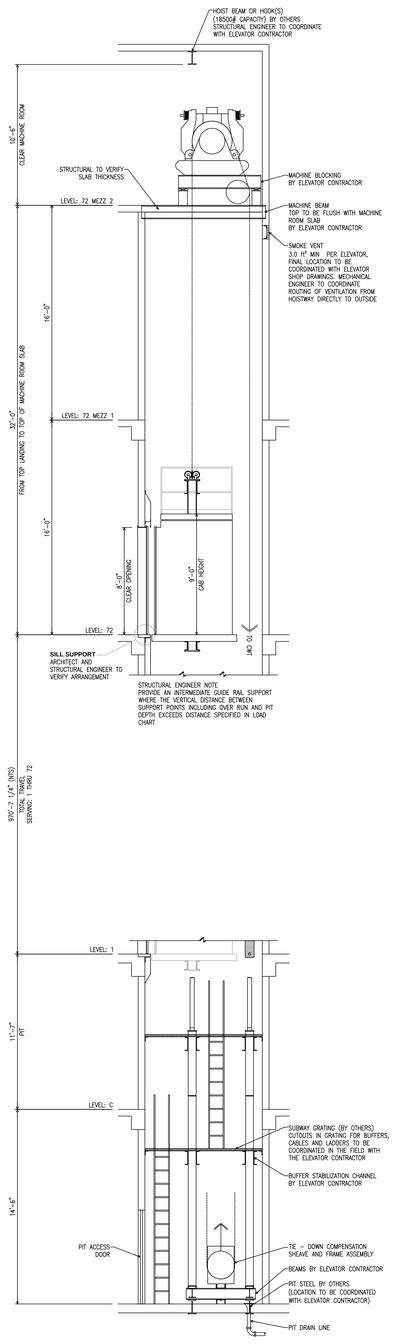
GROUP A
PASSENGER ELEVATORS
CSE1
CLASS "C3" LOADING
3500# @ 1400 FPM

GROUP B
PASSENGER ELEVATORS
CPE2, CPE3
CLASS "A" LOADING
2500# @ 1400 FPM

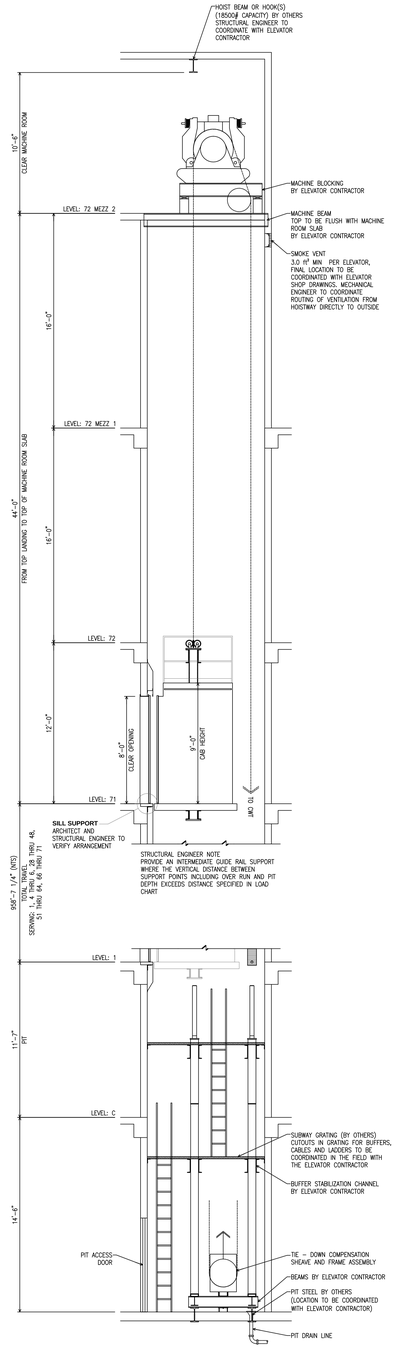


NOTE:
AIR CONDITIONING EQUIPMENT SHALL NOT BE LOCATED DIRECTLY ABOVE ELEVATOR EQUIPMENT. COORDINATE FINAL LOCATION OF ELEVATOR EQUIPMENT WITH THE ELEVATOR SHOP DRAWINGS

MACHINE ROOM PLAN



SECTION
CSE1



SECTION
CPE2 & CPE3

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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WSP CANTOR SEINUK
225 WEST 45TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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NEW YORK, NY 10122
tel 917.339.9300

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AKRF
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NEW YORK, NY 10016
tel 646.388.9628

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120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE # 19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
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NEW YORK, NY 10012
tel 646.666.0846

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JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.758.6540

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NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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104 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2562

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NEW YORK, NY 10018
tel 212.271.7000

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360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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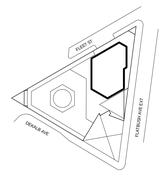
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4250

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344



SITE DIAGRAM

07.15.16 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

ELEVATOR DESIGN REQUIREMENTS

SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASQUARELLI 026760 STATE OF NEW YORK

DATE	07.15.2016
PROJECT NO.	140429
DRAWN BY	AG
CHECKED BY	BS
DOB NO.	320914338

DRAWING NUMBER

A - 530.00

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DEPT OF BLDGS 320914338 Job Number
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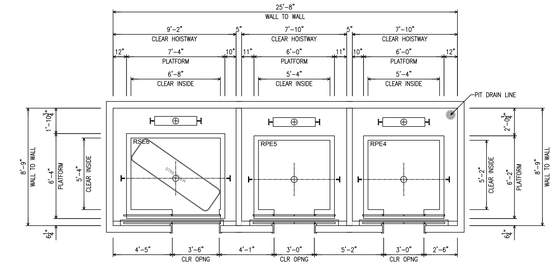
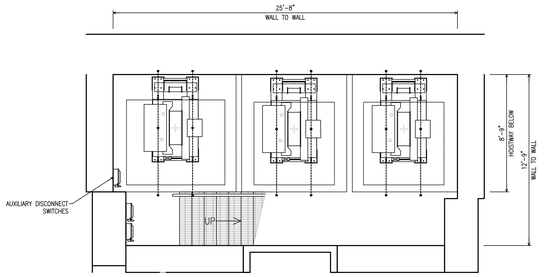


HATCH PLAN
GROUP C
PASSENGER ELEVATORS
RSE4
CLASS "C3" LOADING
3500# @ 1200 FPM

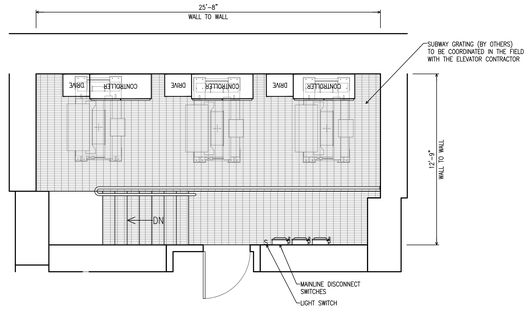
PASSENGER ELEVATORS
RPE4 & RPE5
CLASS "A" LOADING
2500# @ 1200 FPM



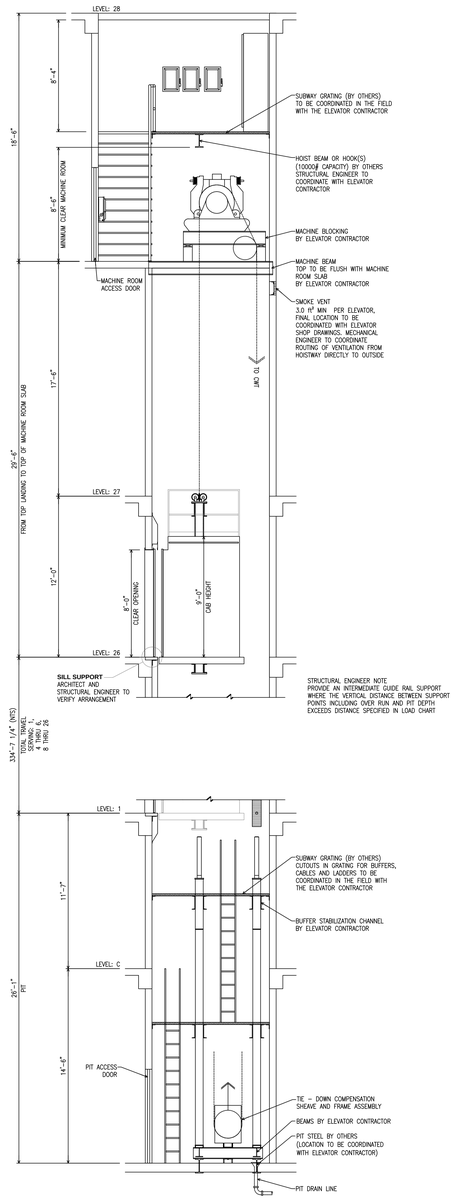
MACHINE ROOM

NOTE:

1. AIR CONDITIONING EQUIPMENT SHALL NOT BE LOCATED DIRECTLY ABOVE ELEVATOR EQUIPMENT. COORDINATE FINAL LOCATION OF ELEVATOR EQUIPMENT WITH THE ELEVATOR SHOP DRAWINGS
2. ARCHITECT TO VERIFY MEANS OF ACCESS TO MACHINE ROOMS AND CONTROL ROOMS.



CONTROLLER SPACE
ABOVE MACHINE ROOM



SECTION

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JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
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ARCHITECT
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233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
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NEW YORK, NY 10017
tel 212.687.9888

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tel 917.339.9300

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120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE # 19
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tel 917.661.7800

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

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NEW YORK, NY 10018
tel 212.758.6540

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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINEERING
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HADENSACK, NJ 07601
tel 201.820.2802

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tel 212.334.2025

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tel 914.495.4290

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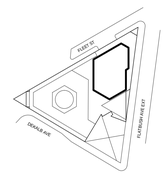
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344



SITE DIAGRAM

07.15.16 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

ELEVATOR DESIGN REQUIREMENTS

SEAL & SIGNATURE

REGISTERED ARCHITECT
BRIAN A. PASQUARELLI
029205
STATE OF NEW YORK

DATE	07.15.2016
PROJECT NO.	140429
DRAWN BY	AG
CHECKED BY	BS
DOB NO.	320914338

DRAWING NUMBER
A - 531.00

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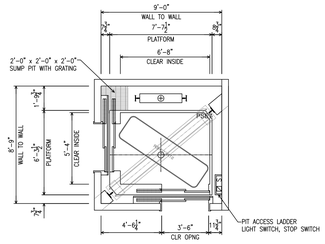
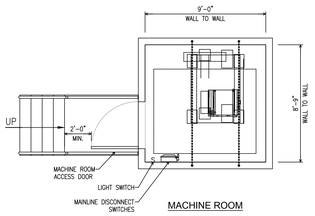
DEPT OF BLDGS 320914338 Job Number

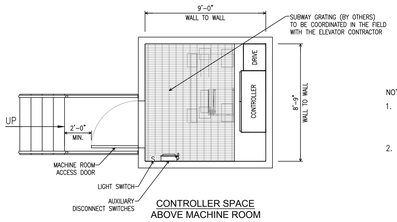
E571135451 Scan Code



HATCH PLAN
GROUP D
PASSENGER ELEVATORS
PSE7
CLASS "C3" LOADING
3500# @ 350 FPM



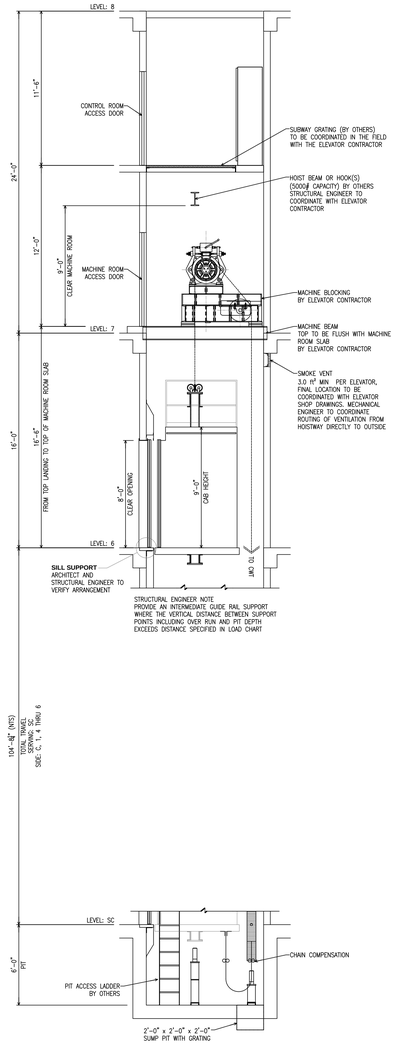
MACHINE ROOM



CONTROLLER SPACE
ABOVE MACHINE ROOM

NOTE:

1. AIR CONDITIONING EQUIPMENT SHALL NOT BE LOCATED DIRECTLY ABOVE ELEVATOR EQUIPMENT. COORDINATE FINAL LOCATION OF ELEVATOR EQUIPMENT WITH THE ELEVATOR SHOP DRAWINGS
2. ARCHITECT TO VERIFY MEANS OF ACCESS TO MACHINE ROOMS AND CONTROL ROOMS.



SECTION

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
85 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 45TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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NEW YORK, NY 10016
tel 646.388.9628

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tel 646.625.3640

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THORNTON TOMASETTI
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NEW YORK, NY 10010
tel 917.661.7800

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NEW YORK, NY 10012
tel 646.666.0846

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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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tel 212.689.5389

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NEW YORK, NY 10005
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WHITE PLAINS, NY 10604
tel 914.495.4290

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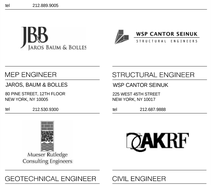
NEW YORK, NY 10007
tel 212.233.6344



SITE DIAGRAM

DATE	ISSUE
07.15.16	DOB FILING SET

NO.	DATE	REVISION

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ELEVATOR DESIGN REQUIREMENTS

SEAL & SIGNATURE

REGISTERED ARCHITECT GREGG A. DASCHBACH 026905 STATE OF NEW YORK

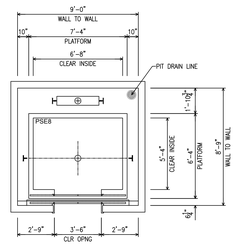
DATE	07.15.2016
PROJECT NO.	140429
DRAWN BY	AG
CHECKED BY	BS
DOB NO.	320914338

DRAWING NUMBER

A - 532.00

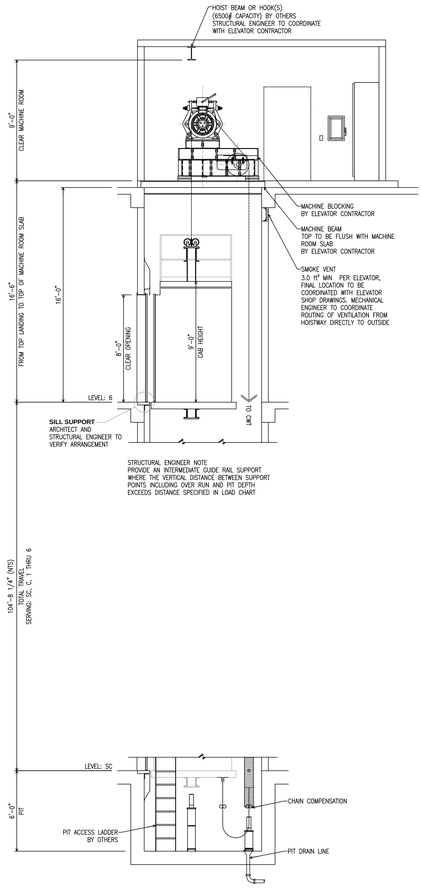
DEPT OF BLDGS 320914338 Job Number

E320364399510 Scan Code



HATCH PLAN

GROUP E
PASSENGER ELEVATORS
PSE8
CLASS "C3" LOADING
3500# @ 350 FPM



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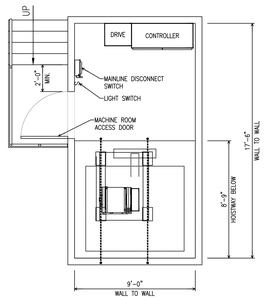

NOTE:
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MACHINE ROOM

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 45TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9628

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.730.6540

BOLD

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
106 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2562

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

FIRE SAFETY ENGINEER
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100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2525

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TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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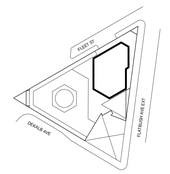
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344



SITE DIAGRAM

07.15.16 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

ELEVATOR DESIGN REQUIREMENTS

SEAL & SIGNATURE

REGISTERED ARCHITECT GIORGIA L. PASQUINELLI 029326 STATE OF NEW YORK

DATE	07.15.2016
PROJECT NO.	140429
DRAWN BY	AG
CHECKED BY	BS
DOB NO.	320914338

DRAWING NUMBER

A - 533.00

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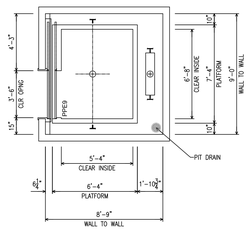
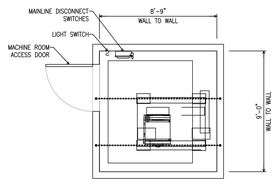


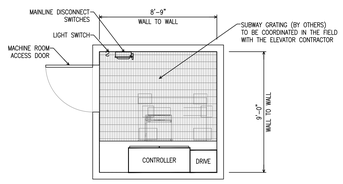
HATCH PLAN
GROUP 1
PASSENGER ELEVATORS
FPE9
CLASS "A" LOADING
3500# @ 200 FPM



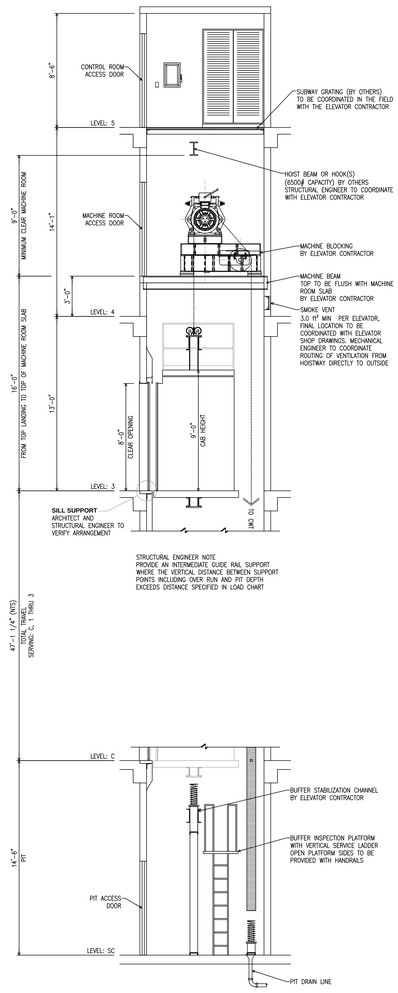
MACHINE ROOM

NOTE:

1. AIR CONDITIONING EQUIPMENT SHALL NOT BE LOCATED DIRECTLY ABOVE ELEVATOR EQUIPMENT. COORDINATE FINAL LOCATION OF ELEVATOR EQUIPMENT WITH THE ELEVATOR SHOP DRAWINGS.
2. ARCHITECT TO VERIFY MEANS OF ACCESS TO MACHINE ROOMS AND CONTROL ROOMS.



CONTROLLER SPACE
ABOVE MACHINE ROOM



SECTION

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 45TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9628

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.758.6540

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LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY,, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
106 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2562

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BURO HAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.3525

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
320 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4790

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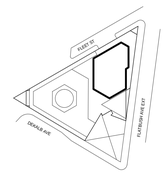
CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344



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07.15.16 DOB FILING SET

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DRAWING TITLE

ELEVATOR DESIGN REQUIREMENTS

SEAL & SIGNATURE

REGISTERED ARCHITECT GREGG A. PASQUARELLI STATE OF NEW YORK

DATE	07.15.2016
PROJECT NO.	140429
DRAWN BY	AG
CHECKED BY	BS
JOB NO.	320914338

DRAWING NUMBER

A - 534.00

DEPT OF BLDGS 320014338 Job Number

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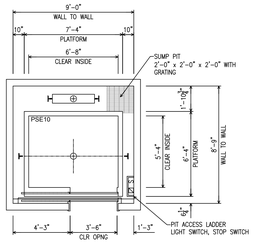
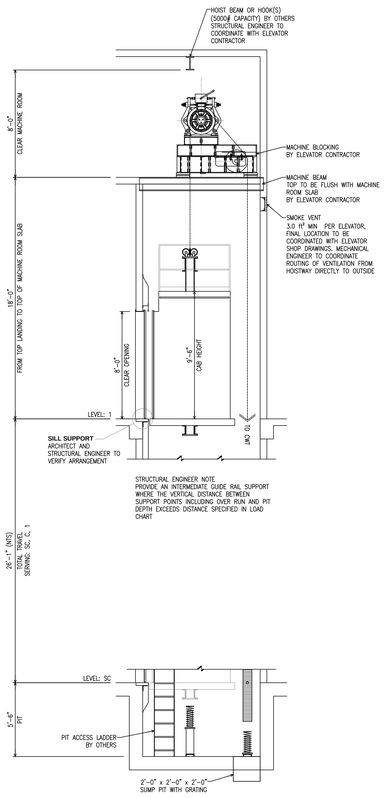


HATCH PLAN
GROUP G
PASSENGER ELEVATORS
PSE10
CLASS "C3" LOADING
3500# @ 200 FPM



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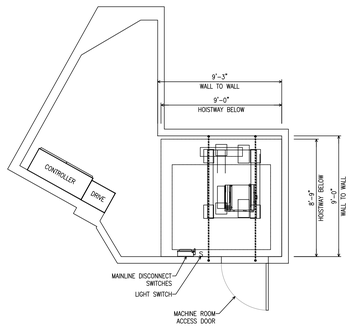

MACHINE ROOM

NOTE:
AIR CONDITIONING EQUIPMENT SHALL NOT BE LOCATED DIRECTLY ABOVE ELEVATOR EQUIPMENT. COORDINATE FINAL LOCATION OF ELEVATOR EQUIPMENT WITH THE ELEVATOR SHOP DRAWINGS

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 13TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 45TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

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AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9628

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.730.6540

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227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
106 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2562

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

LaDinco TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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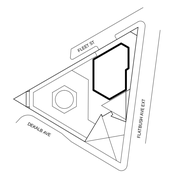
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 15TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344



SITE DIAGRAM

DATE	ISSUE
07.15.16	DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

ELEVATOR DESIGN REQUIREMENTS

SEAL & SIGNATURE

REGISTERED ARCHITECT ANDREW A. PASQUARELLI 026929 STATE OF NEW YORK

DATE	07.15.2016
PROJECT NO.	140429
DRAWN BY	AG
CHECKED BY	BS
JOB NO.	320914338

DRAWING NUMBER

A - 535.00

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DEPT OF BLDGS 320914338 Job Number

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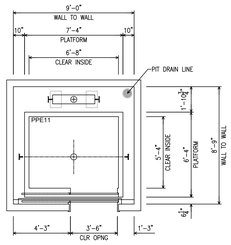
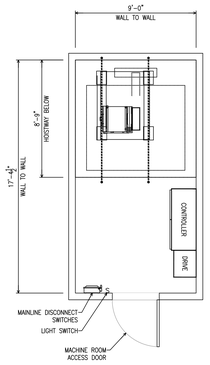


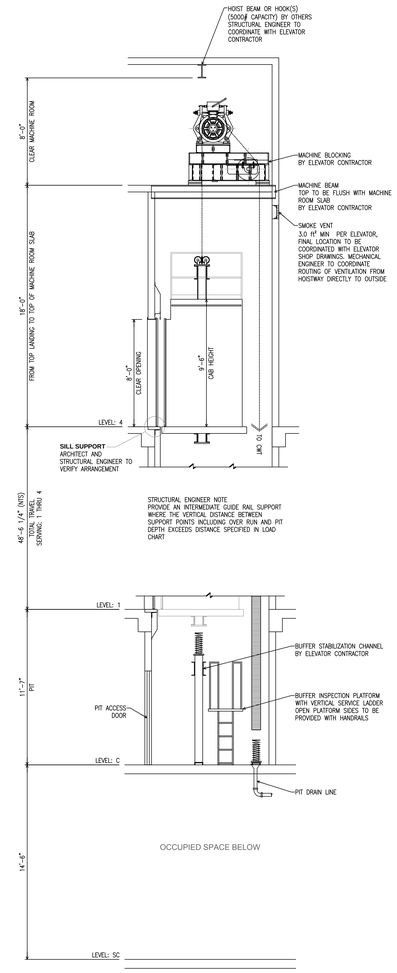
HATCH PLAN

GROUP H
PASSENGER ELEVATORS
PIPE11
CLASS "A" LOADING
3500# @ 200 FPM

NOTE:
AIR CONDITIONING EQUIPMENT SHALL NOT BE LOCATED DIRECTLY ABOVE ELEVATOR EQUIPMENT. COORDINATE FINAL LOCATION OF ELEVATOR EQUIPMENT WITH THE ELEVATOR SHOP DRAWINGS



MACHINE ROOM



SECTION

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 45TH STREET
NEW YORK, NY 10017
tel 212.687.9888

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9628

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, # 19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
594 BROADWAY, SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.730.6540

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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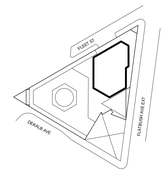
NEW YORK, NY 10007
tel 212.233.6344



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07.15.16	DOB FILING SET			

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DRAWING TITLE

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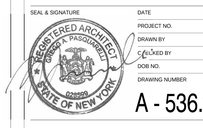

DATE	07.15.2016
PROJECT NO.	140429
DRAWN BY	AG
CHECKED BY	BS
DOB NO.	320914338

DRAWING NUMBER

A - 536.00

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DEPT OF BLDGS 320914338 Job Number

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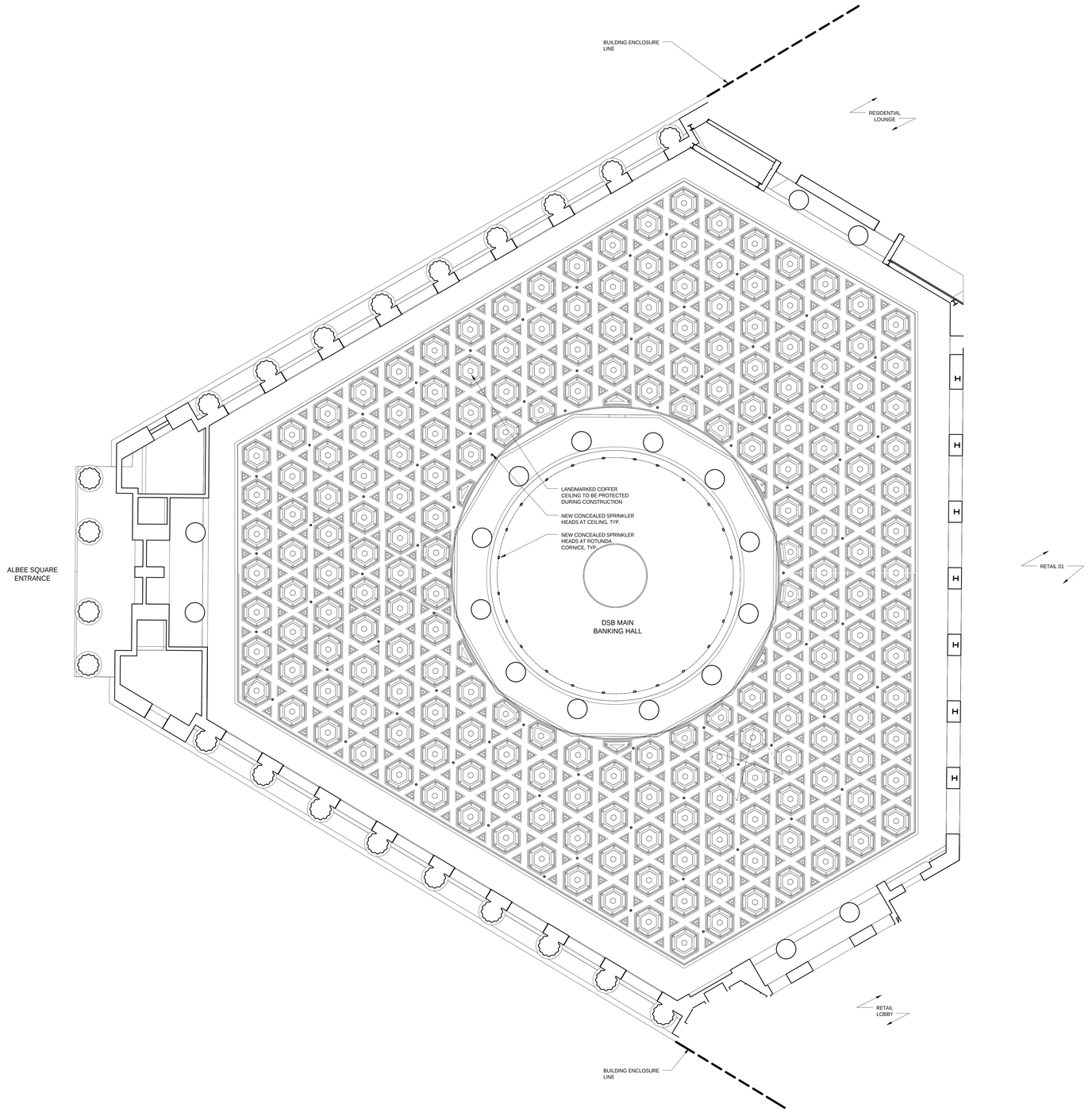

REFLECTED CEILING PLAN - MAIN BANKING HALL | 1/8" = 1'-0" | 1 / A-601.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.487.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

BOLD

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lothrop TRACE POOL DESIGN

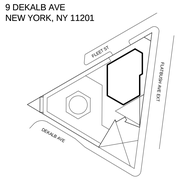
POOL
TRACE POOL DESIGN
103 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
02/05/16	100% SD REASSESSMENT

NO.	DATE	REVISION

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DRAWING TITLE

REFLECTED CEILING PLANS - LEVEL 01

SEAL & SIGNATURE

REGISTERED ARCHITECT DEBORA A. PASQUARELLI 029705 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

A-601.00

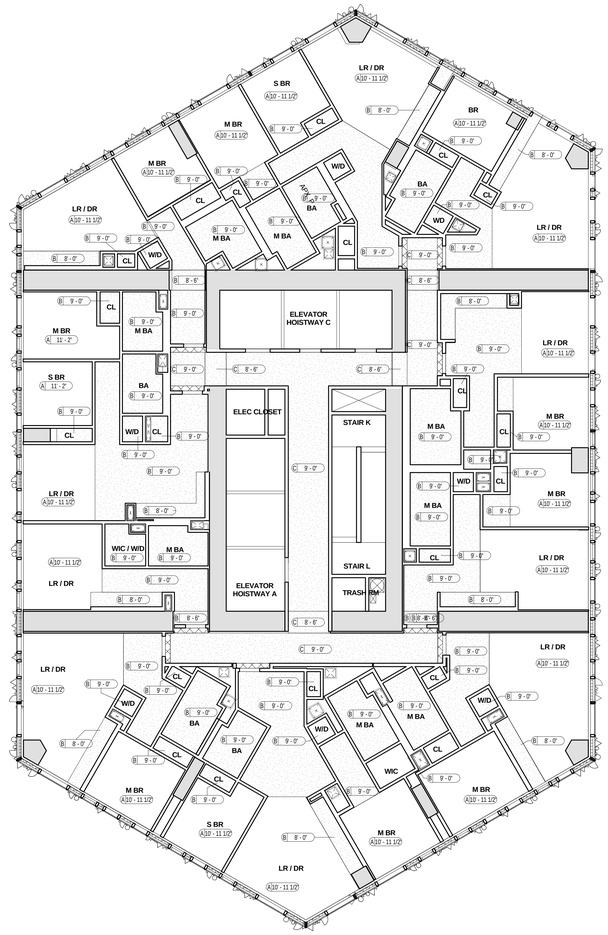
DEPT OF BLDGS320014338 Job Number

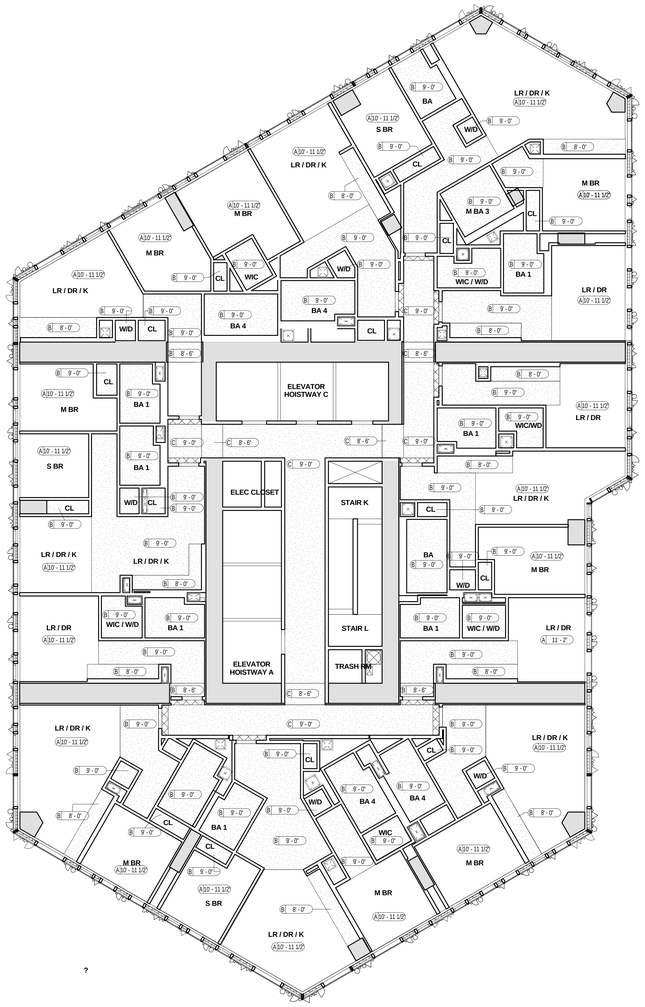
B1070008023 Scan Code

RCP - LEGEND

- TYPE A - KADEX
- TYPE B - GYP. SOFFIT (UNIT)
- TYPE C - GYP. SOFFIT (CORRIDOR)
- TYPE D - PORTAL AT UNIT ENTRY DOOR

NOTE:
1. KITCHEN CEILING SOFFIT HEIGHT TO BE COORDINATED WITH KITCHEN MILLWORK
2. ENTRY PORTAL SOFFIT HEIGHT TO BE COORDINATED WITH UNIT ENTRY DOORS
3. SOFFITS UNDER SHEAR WALL LINK BEAMS TO BE COORDINATED WITH REQUIRED STRUCTURAL AND MECHANICAL CLEARANCES.





?

RCP LEVELS 15-21 | 1/8" = 1'-0" | 2 | A-608.00

RCP LEVELS 8-14 | 1/8" = 1'-0" | 1 | A-608.00

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JDS DEVELOPMENT GROUP
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tel 646.625.3640

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ARCHITECT
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tel 212.889.9005

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JAROS, BAUM & BOLLES
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tel 212.530.9300

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WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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MRCE
233 WEST 39TH STREET 6TH FLOOR
NEW YORK, NY 10122
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EAST HANOVER, NJ 07936
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THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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GACHOT
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NEW YORK, NY 10012
tel 646.666.0846

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JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.759-6540

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NEW YORK, NY 10001
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LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
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HACKENSACK, NJ 07601
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7800

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NEW YORK, NY 10007
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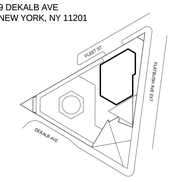

SITE DIAGRAM

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02/05/16 100% SD REASSESSMENT

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

REFLECTED CEILING PLANS - LEVELS 08-14 / 15-21

SEAL & SIGNATURE

REGISTERED ARCHITECT GREGG A. PASQUARELLI STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
JOB NO.	320914338

DRAWING NUMBER

A-608.00

DEPT OF BLDGS 320914338 Job Number
B 3000057338 Scan Code

RCP - LEGEND

- TYPE A - KADEX
- TYPE B - GYP. SOFFIT (UNIT)
- TYPE C - GYP. SOFFIT (CORRIDOR)
- TYPE D - PORTAL AT UNIT ENTRY DOOR

NOTE:
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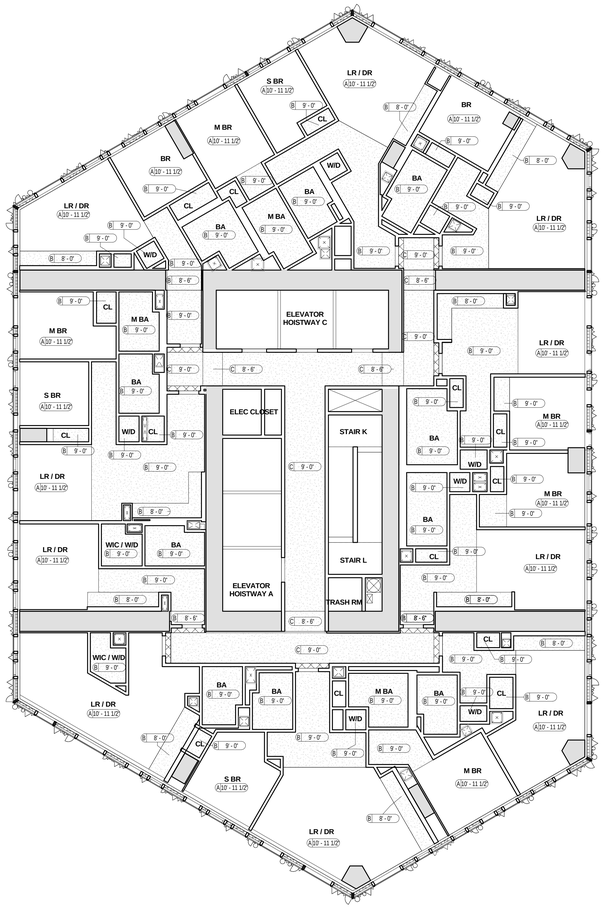

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JDS DEVELOPMENT GROUP
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NEW YORK, NY 10011
tel 646.625.3640

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ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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MIRCE
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EAST HANOVER, NJ 07936
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51 MADISON AVE #19
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GACHOT
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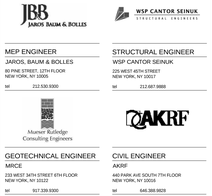

SITE DIAGRAM

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NO.	DATE	REVISION

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DRAWING TITLE

REFLECTED CEILING PLANS - LEVELS 22-26

SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASQUARELLI 026029 STATE OF NEW YORK

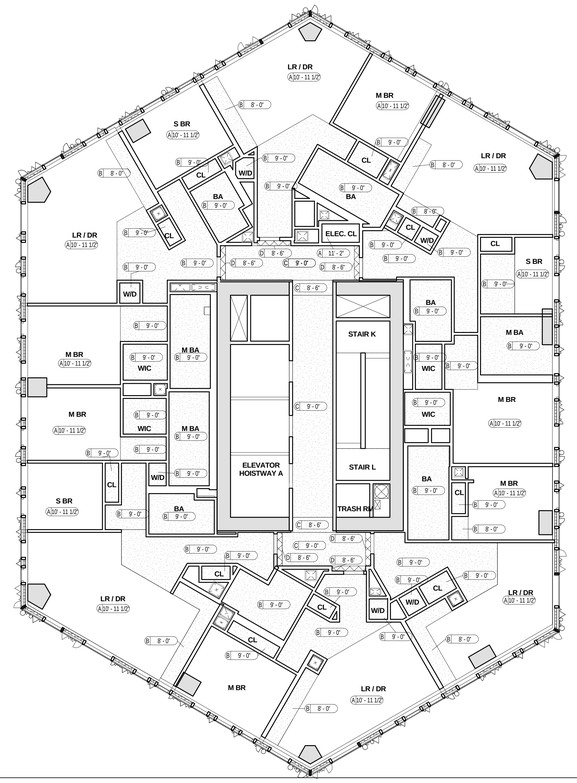
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

DRAWING NUMBER

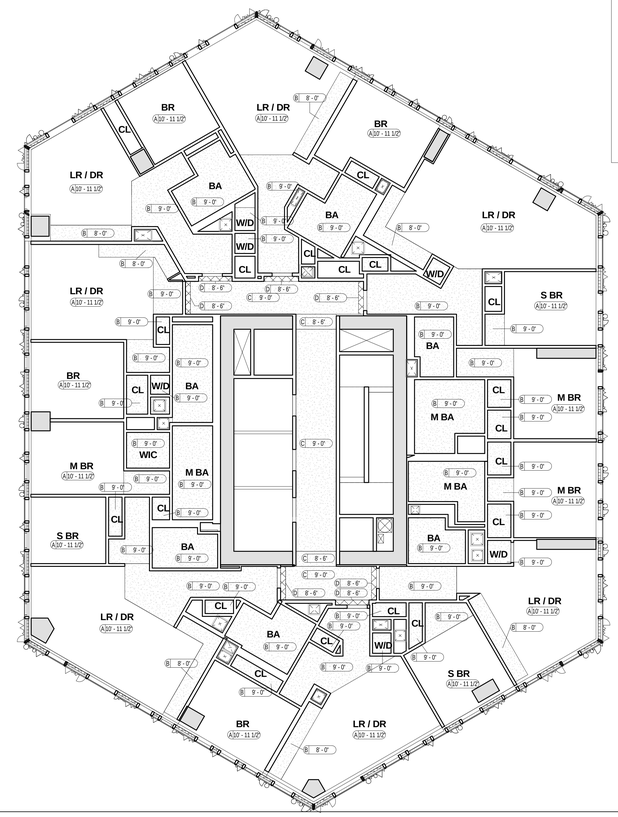
A-622.00

RCP LEVELS 22-26 | 1/8" = 1'-0" | 1 | A-622.00

DEPT OF BLDGS 320914388 Job Number
E307001388 Scan Code



RCP LEVELS 45-48 | 1/8" = 1'-0" | 4 | A-628.00



RCP LEVELS 34-39 | 1/8" = 1'-0" | 2 | A-628.00

RCP - LEGEND

- TYPE A - KADEX
- TYPE B - GYP. SOFFIT (UNIT)
- TYPE C - GYP. SOFFIT (CORRIDOR)
- TYPE D - PORTAL AT UNIT ENTRY DOOR

NOTE:
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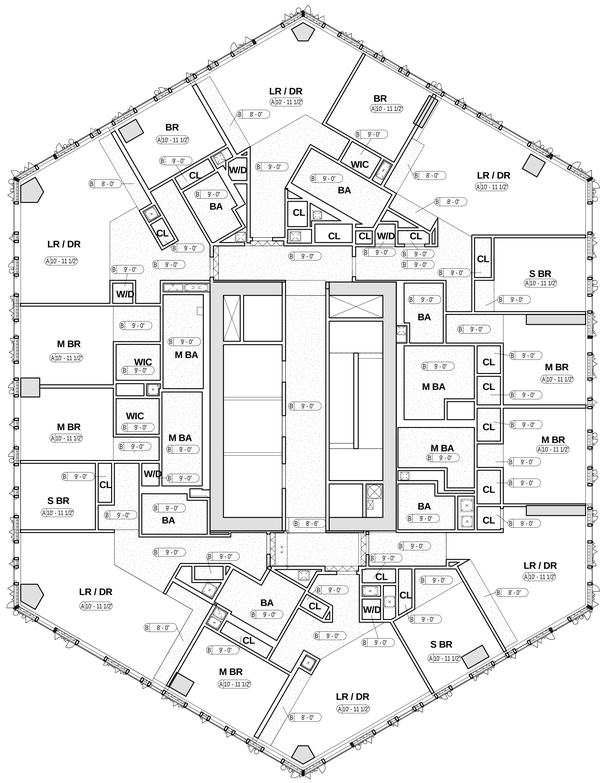
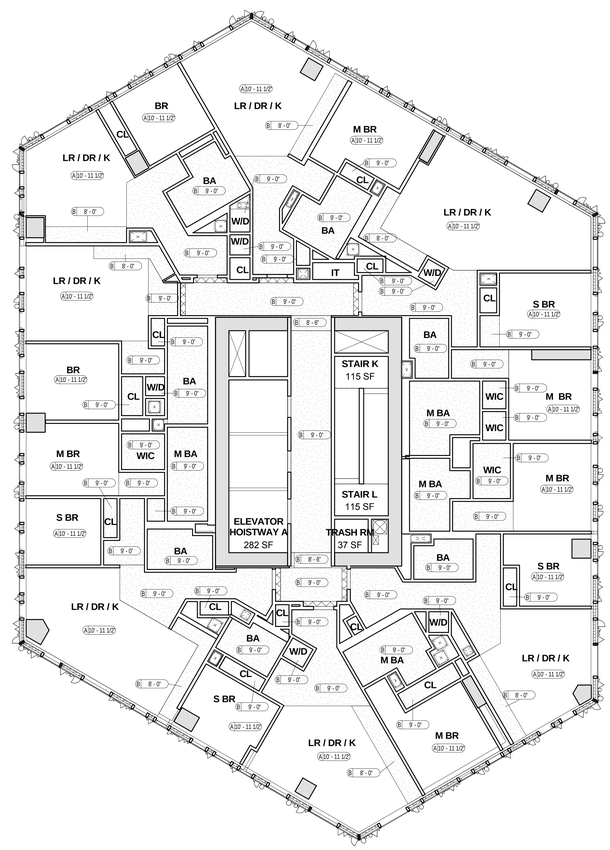


RCP LEVELS 40-44 | 1/8" = 1'-0" | 3 | A-628.00



RCP LEVELS 28-33 | 1/8" = 1'-0" | 1 | A-628.00

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DEVELOPER
JDS DEVELOPMENT GROUP
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NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
ShoP ARCHITECTS, P.C.
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NEW YORK, NY 10279
tel 212.889.9005

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NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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THORNTON TOMASETTI
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GACHOT
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NEW YORK, NY 10012
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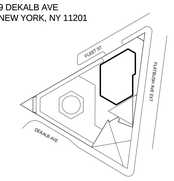

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REFLECTED CEILING PLANS - LEVELS 28-33 / 34-39 / 40-44 / 45-48

SEAL & SIGNATURE

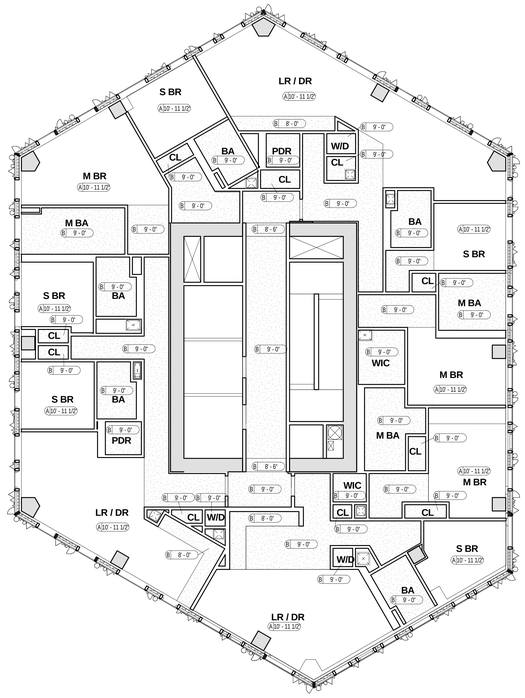
REGISTERED ARCHITECT JOSHUA A. PASQUARELLA 026602 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

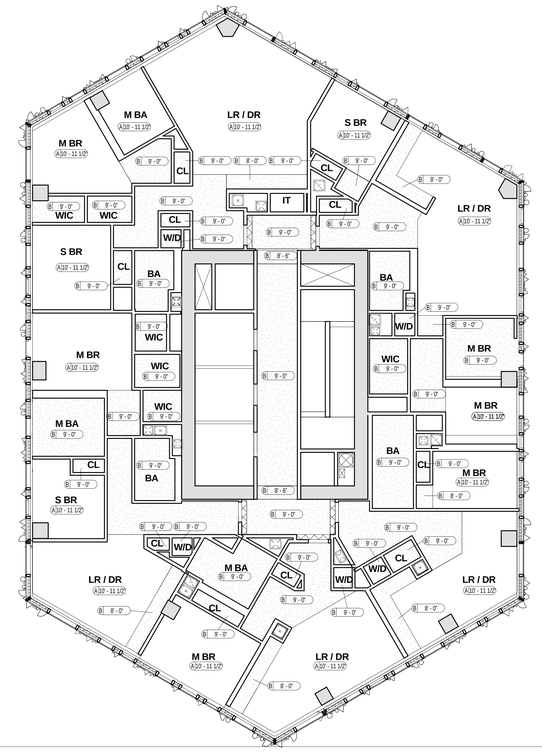
DRAWING NUMBER

A-628.00

DEPT OF BLDGS320014338 Job Number
B107530437P0 Scan Code



RCP LEVELS 66-69 | 1/8" = 1'-0" | 4 | A-651.00



RCP LEVELS 56-60 | 1/8" = 1'-0" | 2 | A-651.00

RCP - LEGEND

- TYPE A - KADEX
- TYPE B - GYP. SOFFIT (UNIT)
- TYPE C - GYP. SOFFIT (CORRIDOR)
- TYPE D - PORTAL AT UNIT ENTRY DOOR

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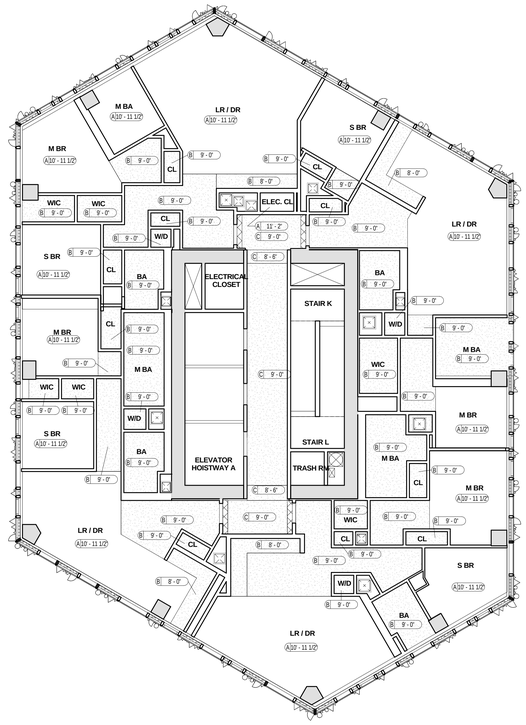
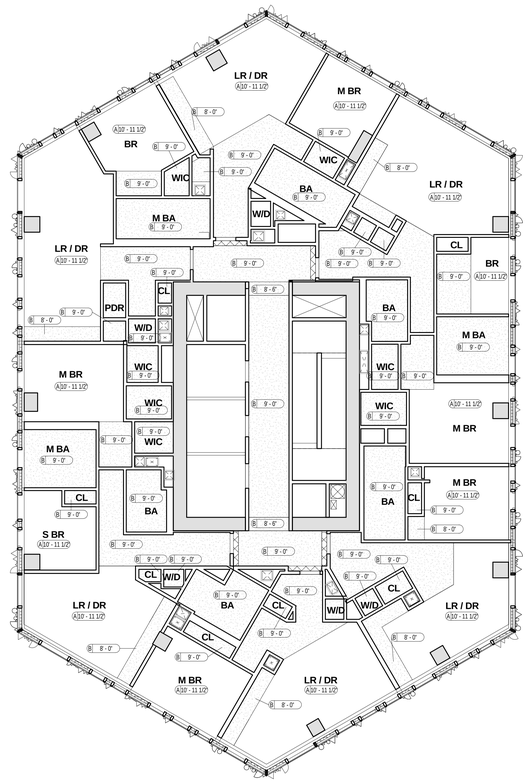


RCP LEVELS 61-64 | 1/8" = 1'-0" | 3 | A-651.00



RCP LEVELS 51-55 | 1/8" = 1'-0" | 1 | A-651.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.467-9888

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GEOTECHNICAL ENGINEER
MRCE
233 WEST 39TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
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VERTICAL TRANSPORTATION
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EAST HANOVER, NJ 07936
tel 646.625.3640

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THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
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NEW YORK, NY 10012
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JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
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tel 212.674.6500

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LONGMAN LINDSEY
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tel 212.315.6400

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HACKENSACK, NJ 07601
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TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.495.4290

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22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233-6344

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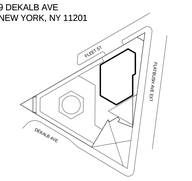
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

REFLECTED CEILING PLANS - LEVELS 51-55 / 56-60 / 61-64 / 66-69

SEAL & SIGNATURE

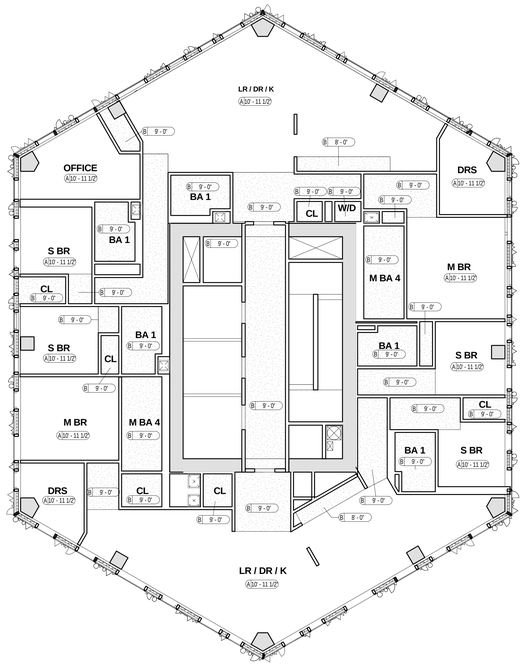
REGISTERED ARCHITECT GEORGE A. PAPADOPOULOS 026900 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
JOB NO.	320914338

DRAWING NUMBER

A-651.00

DEPT OF BLDGS 320914338 Job Number
E 320749013 Scan Code



RCP LEVELS 70-71 | 1/8" = 1'-0" | 1 / A-670.00

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NEW YORK, NY 10279
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JAROS, BAUM & BOLLES
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tel 212.530.9300

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NEW YORK, NY 10017
tel 212.687.9888

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NEW YORK, NY 10122
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440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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GACHOT
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NEW YORK, NY 10012
tel 646.666.0846

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NEW YORK, NY 10001
tel 212.674.6500

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NEW YORK, NY 10018
tel 212.315.6400

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NEW YORK, NY 10003
tel 212.689.5389

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WHITE PLAINS, NY 10604
tel 914.495.4290

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SITE DIAGRAM

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DRAWING TITLE

REFLECTED CEILING PLANS - LEVELS 70-71

SEAL & SIGNATURE

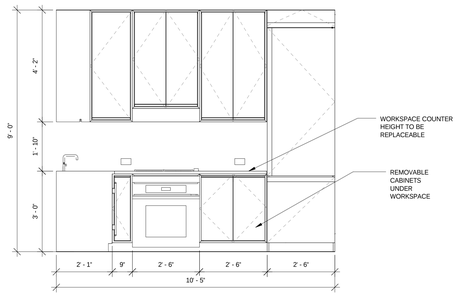
REGISTERED ARCHITECT GREGORY A. PASQUARELLI STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

A-670.00

DEPT OF BLDGS 320143338 Job Number
E1620534181 Scan Code



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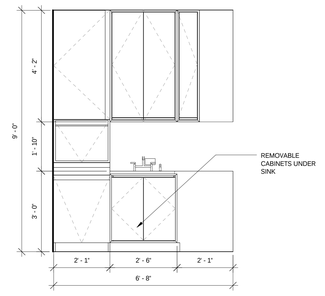

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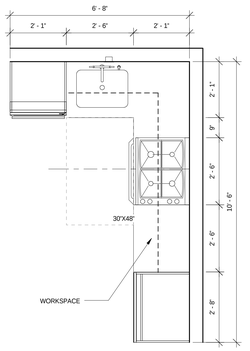

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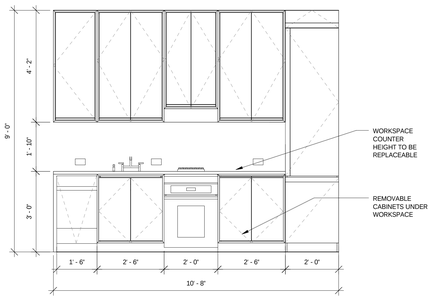

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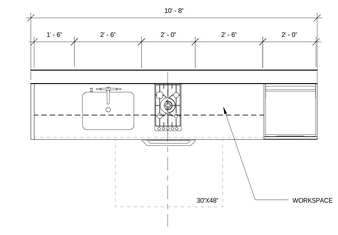

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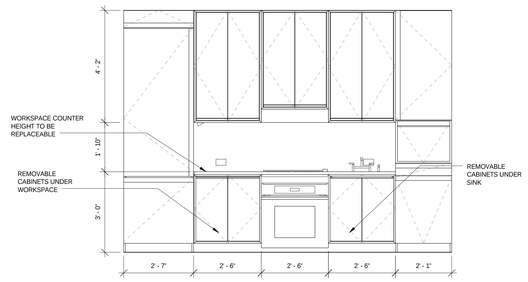

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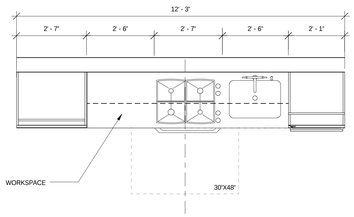

KITCHEN 1: TYPICAL STUDIO | 1/2" = 1'-0" | 1 | A-711.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 45TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
220 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

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133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
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LONGMAN LINDSEY
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NEW YORK, NY 10018
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HACKENSACK, NJ 07601
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550 SEVENTH AVENUE, 10TH FLOOR
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tel 212.271.7000

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360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
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DRAWING TITLE

INTERIOR ELEVATIONS - TYPICAL KITCHENS

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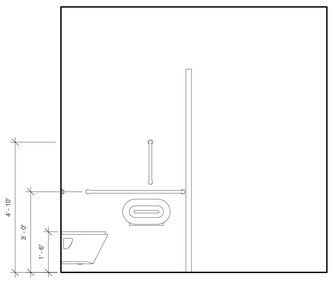
REGISTERED ARCHITECT GREGG A. PASQUARELLI STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	A-711.00

DEPT OF BLDGS 320014338 Job Number

E-DOB-320014338 Scan Code



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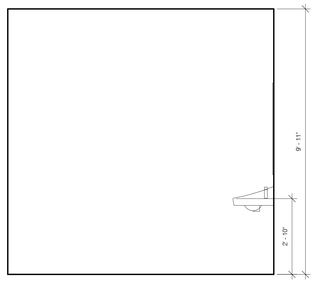

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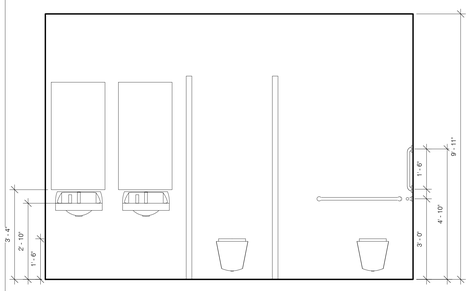

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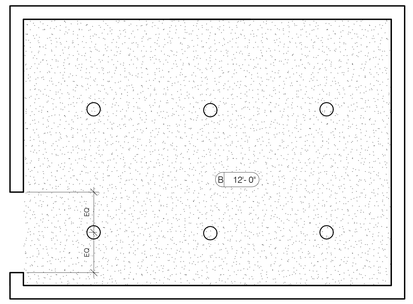

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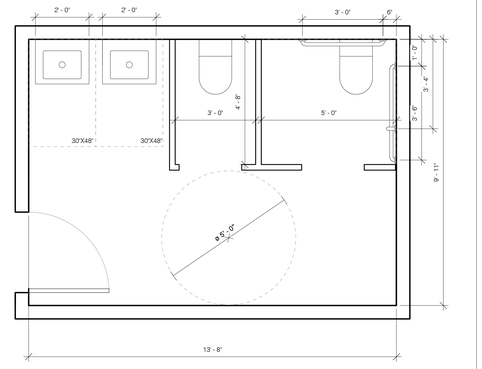

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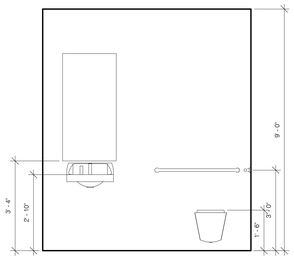

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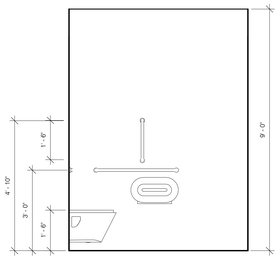

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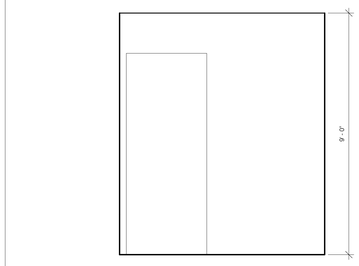

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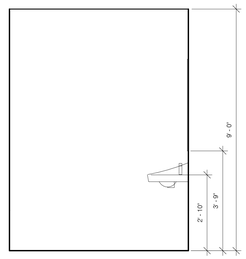

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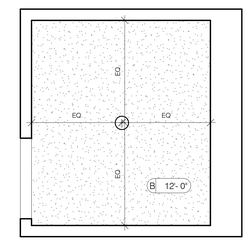

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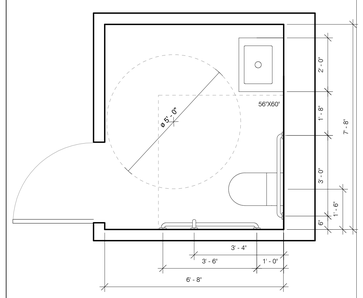

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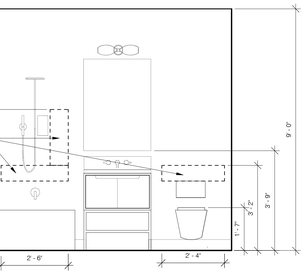

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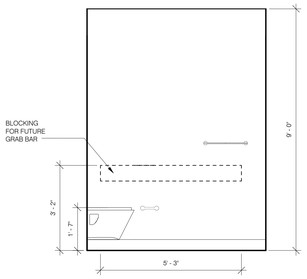

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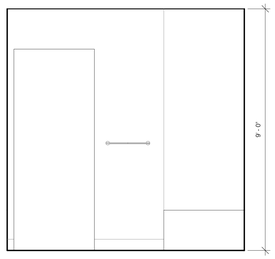

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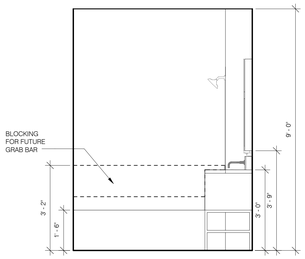

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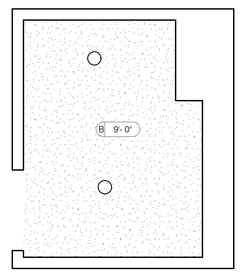

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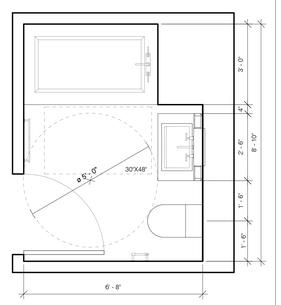

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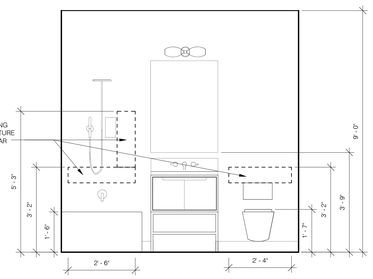

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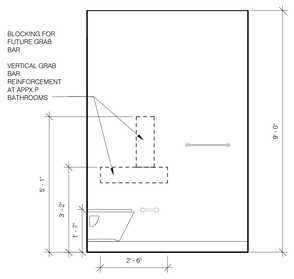

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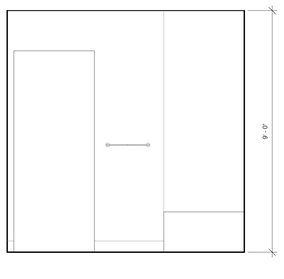

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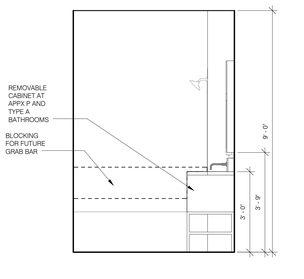

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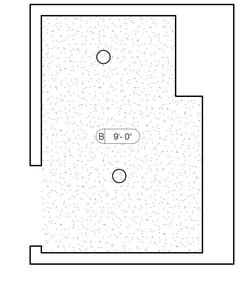

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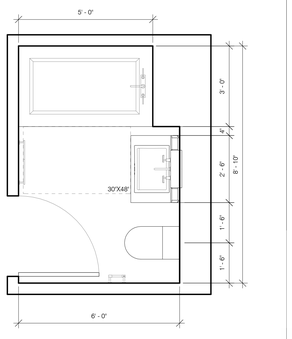

BA 1: TYPICAL APX. P - PLAN | 1/2" = 1'-0" | 1 A712.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
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tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9898

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GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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THORNTON TOMASETTI
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594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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LONGMAN LINDSEY
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BURO HAPPOLD
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NEW YORK, NY 10005
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333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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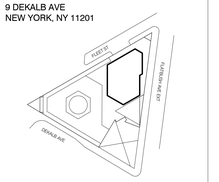
CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET - 18TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

INTERIOR ELEVATIONS - TYPICAL BATHROOMS

SEAL & SIGNATURE

REGISTERED ARCHITECT ROBERT A. PASQUARELLI 029059 STATE OF NEW YORK

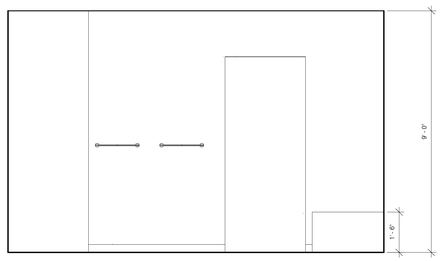
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

DRAWING NUMBER

A-712.00

DEPT OF BLDGS 32091-4338 Job Number

E1525480138 Scan Code



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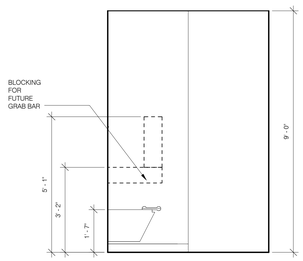

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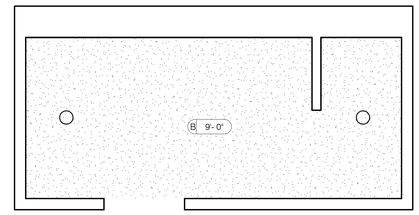

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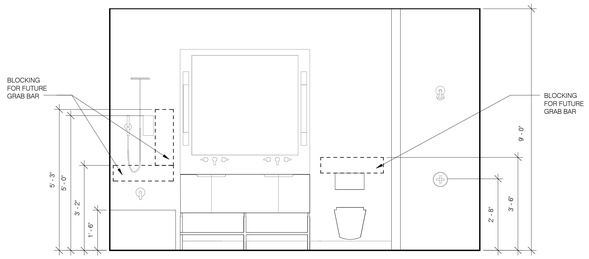

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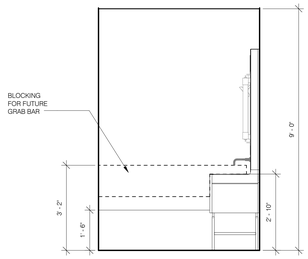

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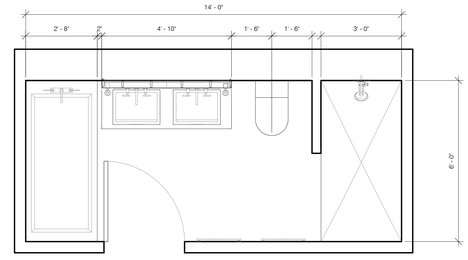

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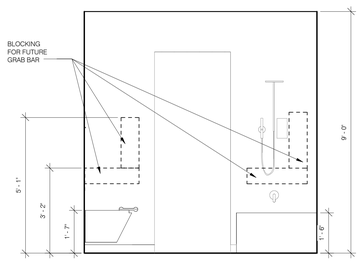

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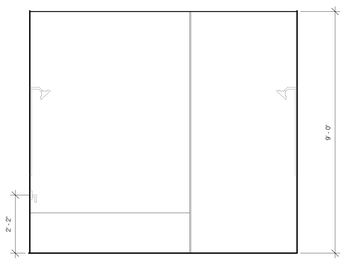

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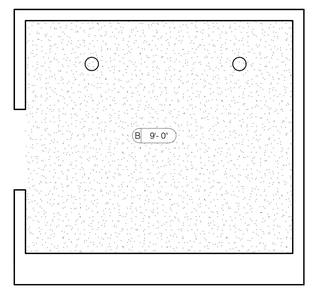

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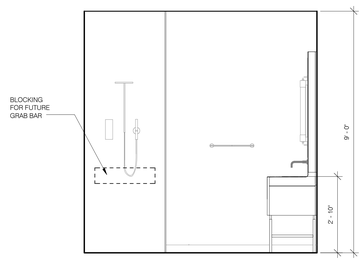

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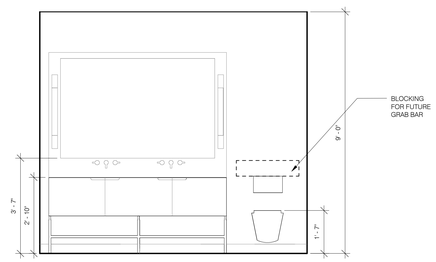

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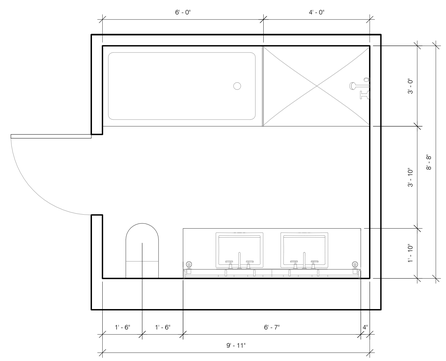

BA 3: TYPICAL EXEMPT - PLAN | 1/2" = 1'-0" | 1 A713.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS, BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 17TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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NEW YORK, NY 10016
tel 646.388.9928

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

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JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-0540

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NEW YORK, NY 10001
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NEW YORK, NY 10018
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tel 201.820.2802

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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WHITE PLAINS, NY 10604
tel 914.455.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
21 CURTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

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02/05/16 100% SD REASSESMENT

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INTERIOR ELEVATIONS - TYPICAL BATHROOMS

SEAL & SIGNATURE

REGISTERED ARCHITECT GREGORY A. PASQUARELLI 026926 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	32091-4338

DRAWING NUMBER

A-713.00

DEPT OF BLDGS3001435R Job Number

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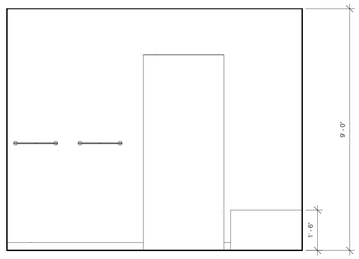

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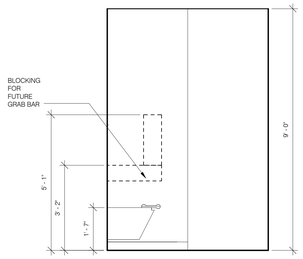

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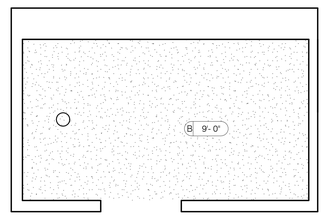

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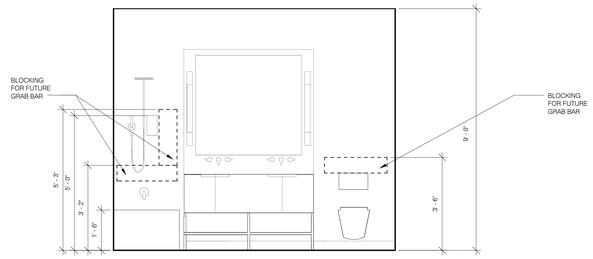

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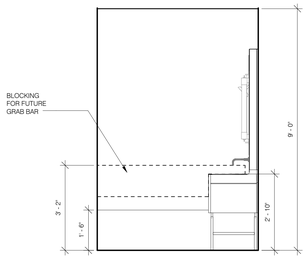

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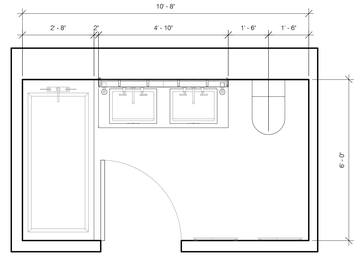

BA 5: TYPICAL APX. P - PLAN | 1/2" = 1'-0" | 1 A-713.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
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tel 212.687.9888

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MRCE
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133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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tel 917.661.7800

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INTERIORS
GACHOT
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NEW YORK, NY 10012
tel 646.666.0846

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NEW YORK, NY 10018
tel 212.315-6400

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HACKENSACK, NJ 07601
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WHITE PLAINS, NY 10604
tel 914.495.4290

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METROPOLIS GROUP, INC.
23 CORTLAND STREET, 10TH FLOOR
NEW YORK, NY 10007
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9 DEKALB AVE

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NEW YORK, NY 11201

SITE DIAGRAM

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DRAWING TITLE

INTERIOR ELEVATIONS - TYPICAL BATHROOMS

SEAL & SIGNATURE

REGISTERED ARCHITECT CHRISTOPHER PASSMORE 026569 STATE OF NEW YORK

DATE	01/30/17
PROJECT NO.	140429
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	

DRAWING NUMBER

A-714.00

DEPT OF BLDGS 320014336 Job Number

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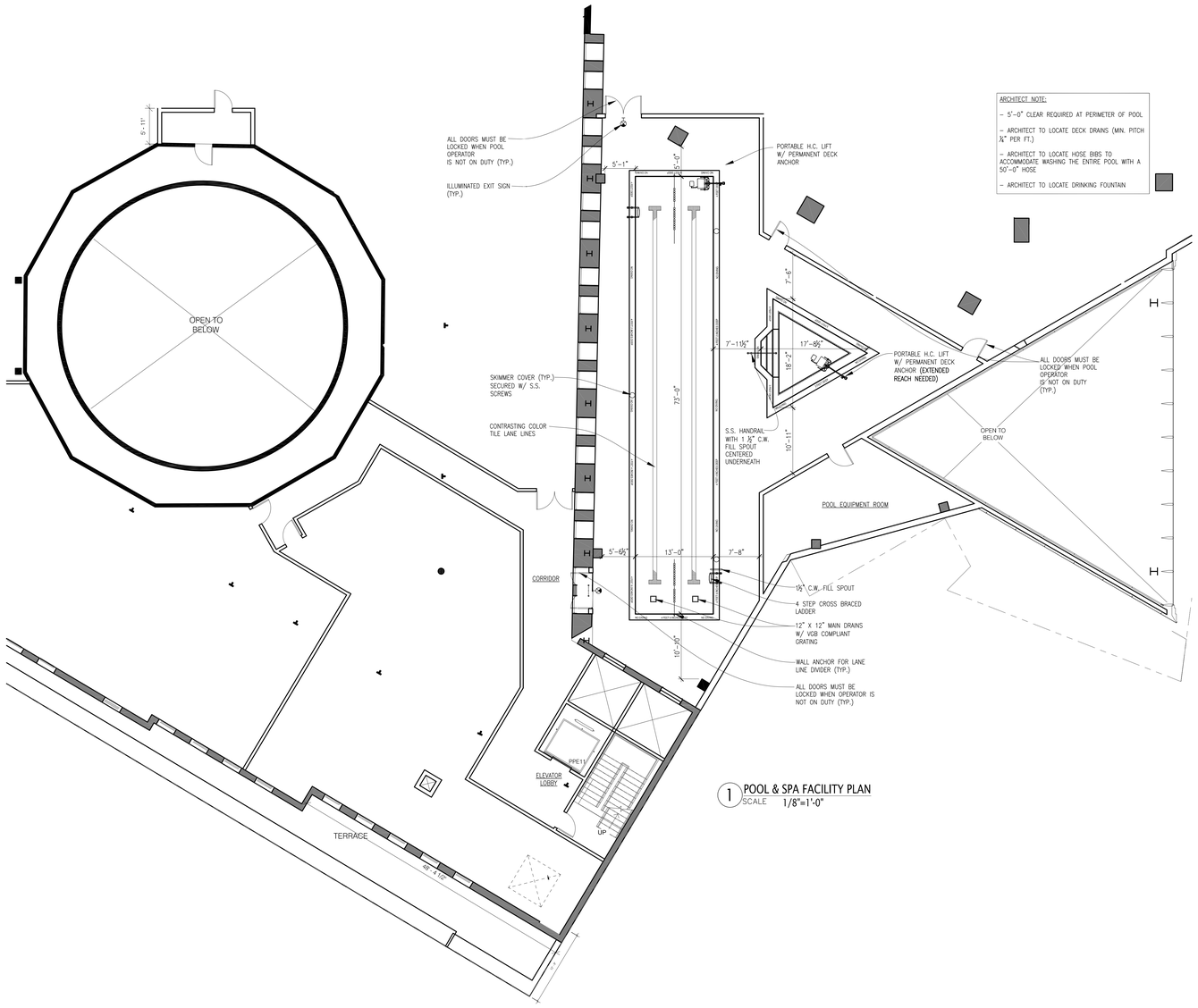


ARCHITECT NOTE:

- 5'-0" CLEAR REQUIRED AT PERIMETER OF POOL
- ARCHITECT TO LOCATE DECK DRAINS (MIN. PITCH ¼" PER FT.)
- ARCHITECT TO LOCATE HOSE BIBS TO ACCOMMODATE WASHING THE ENTIRE POOL WITH A 50'-0" HOSE
- ARCHITECT TO LOCATE DRINKING FOUNTAIN

1 POOL & SPA FACILITY PLAN
SCALE 1/8"=1'-0"

ELECTRICAL NOTES

1. THE UNDERWATER LIGHT FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE ARTICLES OF THE CITY OF NEW YORK ELECTRICAL CODE. THE FIXTURE, JUNCTION BOX, AND TRANSFORMER SHALL BE APPROVED FOR USE IN N.Y.C.

2. SEE ELECTRICAL DRAWINGS FOR LOCATION OF JUNCTION BOXES, SWITCHES, TRANSFORMERS, CIRCUITING, ETC..

3. WIRE CORD LENGTH FOR EACH FIXTURE TO BE DETERMINED PRIOR TO ORDER.

4. THE ELECTRICAL CONTRACTOR SHALL GROUND AND BOND THE POOL, METALLIC POOL ACCESSORIES AND PIPING, AND ALL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH N.E.C. ARTICLE 680 AND CHAPTER 3 OF TITLE 27 OF THE ADMINISTRATIVE CODE OF THE CITY OF N.Y. ENTITLED THE ELECTRICAL CODE.

5. GROUND FAULT AND THERMAL PROTECTION SHALL BE PROVIDED AS REQUIRED BY ALL APPLICABLE CODES.

6. PUMP AND ELECTRICAL CONTROL SHALL BE FURNISHED BY THE POOL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL DISCONNECT, WIRE, CONDUIT, ETC.. AND MAKE ALL CONNECTIONS. POOL CONTRACTOR TO FURNISH ELECTRICAL CONTROL PANEL.

7. ILLUMINATED EXIT SIGNS SHALL BE PROVIDED AT THE DOOR(S) LEADING FROM THE POOL AREA IN ACCORDANCE WITH ALL CODE REQUIREMENTS.

8. EMERGENCY LIGHTING SHALL BE PROVIDED WITHIN THE POOL AREA IN THE EVENT OF A POWER FAILURE, INSTALLED IN ACCORDANCE WITH ALL CODE REQUIREMENTS.

POOL ALARM NOTE

PER REVISED NYC DOB CODE
POOL CONTRACTOR SHALL FURNISH AND INSTALL A POOL ALARM(S) PURSUANT TO NYC BUILDING CODE BC3109.3.2.1 THROUGH 3109.3.2.4. and the following:

1. Pool alarms shall comply with ASTM F2208 and shall be installed, used and maintained in accordance with the manufacturer's instructions.

2. A pool alarm must be capable of detecting entry into the water at any point on the surface of the swimming pool. If necessary to provide detection capability at every point on the surface of the swimming pool, more than one pool alarm shall be provided.

3. Pool alarms shall activate upon detecting entry into the water and shall sound poolside and inside the building. Coordinate location of remote alarm signaling device with architect/MEP engineer/ building manager.

FACILITY NOTES

1. TEMPERATURE FOR SHOWER WATER SHALL BE BETWEEN 90° F AND 100° F. FLOW SHALL BE 1.5 GPM MIN. TO 2.5 GPM MAX. PER SHOWER. SHOWERS SHALL BE FURNISHED WITH AUTOMATIC PRESSURE BALANCING MIXING VALVES, ANTI-SCALD TYPE.

2. FINISH SCHEDULE:
LOCKER ROOMS, TOILETS AND SHOWER AREA WALLS AND PARTITIONS TO HAVE SMOOTH, IMPERVIOUS FINISH AS FOLLOWS:

AREA	FLOOR	WALLS
SHOWERS	TILE	TILE
TOILETS	TILE	TILE
LOCKER ROOMS	TILE	TILE

3. LIQUID OR POWDERED SOAP DISPENSERS SHALL BE PROVIDED AT EACH LAVATORY AND IN ALL SHOWERS. GLASS DISPENSERS ARE NOT PERMITTED.

4. ALL INDOOR POOLS SHALL BE VENTILATED BY NATURAL OR MECHANICAL MEANS. INDOOR POOLS, DRESSING ROOMS, MECHANICAL EQUIPMENT ROOMS, STORAGE AREAS, SHOWER ROOMS, AND LAVATORIES SHALL BE VENTILATED PURSUANT TO ARTICLE 12 OF THE BUILDING CODE OR ANY SUCCESSOR LAW OR REGULATION. VENTILATION SYSTEM SHALL PROVIDE 2 AIR CHANGES MINIMUM PER HOUR, ELIMINATE DRAFTS, AND MINIMIZE CONDENSATION.

5. A HEATING SYSTEM DESIGNED TO HEAT ROOMS TO 75° F SHALL BE PROVIDED IN DRESSING ROOMS, SHOWER ROOMS, LAVATORIES, AND POOL AREAS USED AT TIMES OTHER THAN SUMMER MONTHS, AND SHALL BE OPERATED TO MAINTAIN 70° F WHEN ROOMS ARE IN USE.

6. BASE AT FLOOR–WALL JUNCTURE IN SHOWER & TOILET ROOMS SHALL BE COVED.

7. FLOORS SHALL BE SLOPED ¼" PER FOOT TO DECK DRAINS IN POOL AREA, SHOWER AND TOILET AREAS. FLOORS SHALL BE NON–SLIP.

8. CARPETING SHALL NOT BE PERMITTED IN TOILET AREAS.

9. HOSE BIB WITH VACUUM BREAKER SHALL BE PROVIDED IN EACH TOILET ROOM AND IN POOL AREA AS SHOWN LOCATED TO PERMIT THE ENTIRE AREA TO BE FLUSHED WITH A 50 FT. HOSE.

10. PAPER TOWELS OR ELECTRIC HAND DRYERS AND A COVERED WASTE RECEPTACLE SHALL BE PROVIDED AT EACH LAVATORY.

11. A SANITARY NAPKIN DISPENSER AND DISPOSAL SHALL BE PROVIDED IN THE WOMEN'S TOILET ROOM.

12. A TELEPHONE SHALL BE IMMEDIATELY ACCESSIBLE WITHIN 300 FT. UNIMPEDED DISTANCE OF THE POOL WATER (AN UNLOCKED DOOR OR GATE SHALL NOT BE CONSIDERED AN IMPEDIMENT) FOR EMERGENCY COMMUNICATIONS IN THE BATHING ESTABLISHMENT. THE TELEPHONE NUMBERS OF LOCAL POLICE, EMERGENCY MEDICAL SERVICES, NEAREST HOSPITAL, FIRE DEPARTMENT, AND POISON CONTROL CENTER SHALL BE POSTED IN A CONSPICUOUS PLACE NEAR THE TELEPHONE. THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE ESTABLISHMENT SHALL BE LISTED BY TELEPHONE.

SWIMMING POOL BONDING NOTES

1. SWIMMING POOL SHALL BE BONDED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC ARTICLE 680.26 AND ALL APPLICABLE STATE & LOCAL CODES.

2. GROUNDING CONDUCTOR AND BONDING JUMPERS SHALL BE CONNECTED BY EXOTHERMIC WELDING, LISTED PRESSURE CONNECTORS, LISTED CLAMPS, OR OTHER LISTED MEANS. CONNECTION DEVICES OR FITTINGS THAT DEPEND SOLELY ON SOLDER SHALL NOT BE USED. SHEET METAL SCREWS SHALL NOT BE USED TO ATTACH CONNECTION DEVICES TO ENCLOSURES.

3. THE FOLLOWING PARTS SHALL BE BONDED TOGETHER:
–METALLIC STRUCTURAL COMPONENTS
–UNDERWATER LIGHTING: ALL METAL FORMING SHELLS AND MOUNTING BRACKETS OF NO–NICHE LUMINAIRES SHALL BE BONDED. EXCEPTION: LISTED LOW–VOLTAGE LIGHTING SYSTEMS WITH NONMETALLIC FORMING SHELLS SHALL NOT REQUIRE BONDING.
–METAL FITTINGS (ANY DIMENSION GREATER THAN 4" AND PROJECTING MORE THAN 1" INTO POOL)
–ELECTRICAL EQUIPMENT (POOL PUMPS, ELECTRIC MOTORS FOR POOL COVERS, ETC.)
–METAL WIRING METHODS & EQUIPMENT– METAL SHEATHED CABLES & RACEWAYS, METAL PIPING, AND ALL FIXED METAL PARTS NOT SEPARATED FROM THE POOL BY A PERMANENT BARRIER (WITHIN 5 FT. HORIZONTALLY OF THE INSIDE POOL WALL, AND 12 FT. VERTICALLY ABOVE MAX. WATER LEVEL)

4. THE PARTS SPECIFIED (ABOVE) IN 680.26(B) SHALL BE CONNECTED TO A COMMON BONDING GRID. THE COMMON BONDING GRID SHALL BE PERMITTED TO BE ANY OF THE FOLLOWING:
A) THE WALL OF A BOLTED OR WELDED METAL POOL.

B) A SOLID COPPER CONDUCTOR, INSULATED, COVERED, OR BARE, NOT SMALLER THAN #8 AWG

C) RIGID METAL CONDUIT OR INTERMEDIATE METAL CONDUIT OF BRASS OR OTHER IDENTIFIED CORROSION–RESISTANT METAL CONDUIT.

D) CONDUCTIVE POOL SHELLS: BONDING TO CONDUCTIVE POOL SHELLS SHALL BE PROVIDED AS SPECIFIED IN ITEM 1.1 OR 1.2. POURED CONCRETE, PNEUMATICALLY APPLIED OR SPRAYED CONCRETE, AND CONCRETE BLOCK WITH PAINTED OR PLASTERED COATINGS SHALL BE CONSIDERED TO BE CONDUCTIVE MATERIALS BECAUSE OF THEIR WATER PERMEABILITY AND POROSITY. VINYL LINERS AND FIBERGLASS COMPOSITE SHELLS SHALL BE CONSIDERED TO BE NONCONDUCTIVE MATERIALS.

E) STRUCTURAL REINFORCING STEEL: UNENCAPSULATED STRUCTURAL REINFORCING STEEL SHALL BE BONDED TOGETHER BY STEEL TIE WIRES OR THE EQUIVALENT. WHERE STRUCTURAL REINFORCING STEEL IS ENCAPSULATED IN A NONCONDUCTIVE COMPOUND, A COPPER CONDUCTOR GRID SHALL BE INSTALLED IN ACCORDANCE WITH 680.26 ITEM 1.2.

F) COPPER CONDUCTOR GRID: A COPPER CONDUCTOR GRID SHALL BE PROVIDED AND SHALL COMPLY WITH THE FOLLOWING:
(1) BE CONSTRUCTED OF MINIMUM 8 AWG BARE SOLID COPPER CONDUCTORS BONDED TO EACH OTHER AT ALL POINTS OF CROSSING.
(2) CONFORM TO THE CONTOUR OF THE POOL AND THE POOL DECK.
(3) BE ARRANGED IN A 12–IN. BY 12–IN. NETWORK OF CONDUCTORS IN A UNIFORMLY SPACED PERPENDICULAR GRID PATTERN WITH A TOLERANCE OF 4 IN.
(4) BE SECURED WITHIN OR UNDER THE POOL NO MORE THAN 6 IN. FROM THE OUTER CONTOUR OF THE POOL SHELL.

5. PERIMETER SURFACES: THE PERIMETER SURFACE SHALL EXTEND FOR 3 FEET HORIZONTALLY BEYOND THE INSIDE WALLS OF THE POOL AND SHALL INCLUDE UNPAVED SURFACES, POURED CONCRETE AND OTHER TYPES OF PAVING. BONDING TO PERIMETER SURFACES SHALL BE PROVIDED AS SPECIFIED IN 680.26(B)(2)(a) OR (2)(b) AND SHALL BE ATTACHED TO THE POOL, SPA, OR HOT TUB REINFORCING STEEL OR COPPER CONDUCTOR GRID AT A MINIMUM OF FOUR POINTS UNIFORMLY SPACED AROUND THE PERIMETER OF THE POOL, SPA, OR HOT TUB. FOR NONCONDUCTIVE POOL SHELLS, BONDING AT FOUR POINTS SHALL NOT BE REQUIRED.

6. POOL WATER: THE POOL WATER SHALL BE INTENTIONALLY BONDED BY MEANS OF A CONDUCTIVE SURFACE AREA NOT LESS THAN 9 SQUARE INCHES INSTALLED IN CONTACT WITH THE POOL WATER. THIS BOND SHALL BE IMPLEMENTED TO CONSIST OF PARTS THAT ARE REQUIRED TO BE BONDED IN 680.26(B).

7. EXTEND BONDING WIRE TO MECHANICAL/FILTER EQUIPMENT ROOM AND CONNECT TO BOND LUG ON POOL PUMP MOTOR(S), AND METAL FILTER TANK(S) WHEN APPLICABLE.

NOTE:
A #8 AWG SOLID COPPER BONDING CONDUCTOR PROVIDED TO REDUCE VOLTAGE GRADIENTS IN THE POOL AREA SHALL NOT BE REQUIRED TO BE EXTENDED OR ATTACHED TO REMOTE PANELBOARDS, SERVICE EQUIPMENT OR ELECTRODES.

GENERAL NOTES

1. DESIGN, CONSTRUCTION, AND MAINTENANCE OF THE POOL AND RELATED FACILITY SHALL BE IN ACCORDANCE WITH THE N.Y.S. SANITARY CODE SUBPART 6–1, N.Y.C. BUILDING CODE BC 3109 SWIMMING POOLS, SWIMMING POOL ENCLOSURES, SAFETY DEVICES, AND ALL THE RULES AND REGULATIONS OF THE NYC DEPARTMENT OF HEALTH, ARTICLE 165, WHERE THERE IS CONFLICT BETWEEN THE BUILDING CODE AND ARTICLE 165 THE MORE STRINGENT REQUIREMENT SHALL APPLY.

2. NO REFRESHMENTS OF ANY KIND SHALL BE ALLOWED WITHIN THE POOL ENCLOSURE.

3. FLOORS, DECKS, AND BOTTOM OF POOL TO HAVE A NON–SLIP SURFACE.

4. POOL DEPTH MARKERS, INDICATED WITH MINIMUM 4" HIGH NUMERALS SHALL BE PROVIDED IN ACCORDANCE WITH THE LAYOUT ON THE DRAWINGS. NUMBER SHALL BE PLACED ON BOTH THE POOL SIDE WALL AND DECK.

5. FLOORS SHALL BE PITCHED A MINIMUM OF 1/4" PER FOOT TO DRAINS.

6. HOSE BIBS SHALL BE PROVIDED WITH VACUUM BREAKERS.

7. ADEQUATE VENTILATION SHALL BE PROVIDED IN THE POOL EQUIPMENT ROOM TO PROVIDE A MINIMUM OF 2 AIR CHANGES PER HOUR.

8. THE POOL SHALL BE OPERATED UNDER SUPERVISION LEVEL II AS DEFINED BY THE NYC DEPARTMENT OF HEALTH.

9. ARCHITECT/ENGINEER MUST SUPERVISE THE CONSTRUCTION OF THE SWIMMING POOL.

10. ALL CONNECTIONS TO STREET WATER MAINS SHALL BE IN ACCORDANCE WITH LOCAL DEPARTMENT REQUIREMENTS.

11. HOUSE SEWER CONNECTIONS AND APPROVAL TO HANDLE POOL WASTE AND DRAINS SHALL BE IN FULL ACCORDANCE WITH NYCDEP REQUIREMENTS.

12. ANY DEVIATION FROM APPROVED PLANS OR SPECIFICATIONS MUST BE APPROVED BY THE DEPARTMENT OF HEALTH, IN WRITING, BEFORE SUCH CHANGES ARE MADE.

13. THE DESIGN ARCHITECT SHALL CERTIFY TO THE HEALTH DEPARTMENT THAT THE POOL STRUCTURE AND ALL APPURTENANCES HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS

14. THE POOL OPERATOR MUST DEVELOP, UPDATE, AND IMPLEMENT A WRITTEN POOL SAFETY PLAN CONSISTING OF PROCEDURES FOR REACTING TO EMERGENCIES, INJURIES AND OTHER INCIDENTS, PROVIDING FIRST AID, AND SUMMONING HELP. THE SAFETY PLAN MUST BE SUBMITTED TO, AND APPROVED BY THE NYC DEPARTMENT OF HEALTH PRIOR TO THE OPENING OF THE POOL. THE PLAN MUST BE KEPT ON FILE AT THE POOL AT ALL TIMES.

15. THE POOL BUILDER SHALL PROVIDE A POOL OPERATION MANUAL. INCLUDED SHALL BE INSTRUCTIONS FOR EACH FILTER, PUMP, CHEMICAL FEED EQUIPMENT AND GENERAL OPERATION. DRAWINGS, ILLUSTRATIONS, AND PARTS LISTS SHALL BE INCLUDED ALONG WITH INSTRUCTIONS FOR THE OPERATION AND MAINTENANCE OF ALL THE EQUIPMENT.

MAINTENANCE & SAFETY EQUIPMENT SCHEDULE

QTY.	DESCRIPTION (FURNISHED BY POOL CONTRACTOR)
1	VACUUM CLEANER: W/16'–0" LONG, 2 PC. POLE, 50 FT. OF 1 1/2"ø HEAVY DUTY HOSE & ALL CONNECTIONS
1	FLOOR BRUSH: W/16'–0" LONG 2 PC. TELESCOPIC POLE
1	SKIMMER BASKET: W/16'–0" LONG 2 PC. TELESCOPIC POLE
1	TEST KIT: DFD SLIDE COMPARATOR TYPE WITH 0 TO 4 P.P.M. CHLORINE RANGE 6.8 TO 8.4 PH RANGE, "TAYLOR" OR EQUAL
1 EA	TEST KITS FOR CALCIUM HARDNESS & TOTAL ALKALINITY.
1	RESCUE TUBE: W/ 6'–0" OF 3/8" DIA. LINE & MOUNTING HARDWARE
1	SHEPHERD'S CROOK: MIN. 15'–0" LONG POLE & MOUNTING HARDWARE
1	FIRST AID KIT: AMERICAN NATIONAL RED CROSS, STANDARD 24 UNIT KIT W/ ADULT & CHILD SIZE CPR FACE MASK AND 2 PAIR LATEX GLOVES
5	POOL ALARM: POOLGUARD MODEL #PORM–2, BATTERY POWERED ASTM F–2208 COMPLIANT W/ REMOTE RECEIVER & HORN.
1 EA	SPINEBOARD: 6'–0" LONG X 1'–6" WIDE, 6 HANDHOLDS PER SIDE, W/ (2) 9'–0" LONG STRAPS AND HEAD IMMOBILIZER
2	BLANKET
1	PORTABLE EYEWASH STATION: GUARDIAN MODEL G1540 GRAVITY–FLOW, WITH 16 GALLON REFILLABLE TANK, ANSI Z358.1–2009. MOUNTED IN POOL EQUIPMENT ROOM

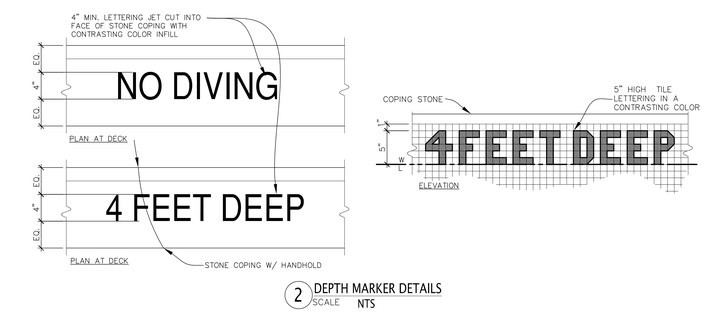
NOTE: POOL CONTRACTOR SHALL FURNISH GOGGLES, APRONS AND RUBBER GLOVES FOR HANDLING CHEMICALS. (2 SETS OF EACH ITEM)

LAP POOL/WHIRLPOOL DATA

	LAP POOL DATA	WHIRLPOOL DATA
PERIMETER	XXXX LIN. FT.	XXXX LIN. FT.
AREA	XXXX SQ. FT.	XXXX SQ. FT.
MAX. NUMBER OF PEOPLE AT ONE TIME IN POOL	(XXXX÷ 25) =	(XXXX ÷ 10) =
POOL DECK AREA (5' WALKWAY EXCLUDED)	XXXX SQ. FT.	XXXX SQ. FT.
MAX. NUMBER OF PEOPLE ON POOL DECK AT ONE TIME	(XXXX÷ 50) =	(XXXX ÷ 50) =
MAX. NUMBER OF PEOPLE IN POOL & DECK AREA	XXX People Total	XXX People Total

FACILITY DATA

	LAVATORIES	WATER CLOSETS	URINALS	SHOWERS
WOMEN'S TOILET	–	–	–	–
MEN'S TOILET	–	–	–	–



2 DEPTH MARKER DETAILS
SCALE NTS

W'POOL DEPTH MARKER SCHEDULE

MARKER TEXT	QUANTITY	
	POOL DECK	POOL SIDEWALL
NO DIVING	5 PLACES	–
3 FEET DEEP	4 PLACES	4 PLACES

POOL DEPTH MARKER SCHEDULE

MARKER TEXT	QUANTITY	
	POOL DECK	POOL SIDEWALL
NO DIVING	10 PLACES	–
4 FEET 0 INCHES DEEP	3 PLACES	3 PLACES
4 FEET 2 INCHES DEEP	2 PLACES	2 PLACES
4 FEET 4 INCHES DEEP	2 PLACES	2 PLACES
4 FEET 6 INCHES DEEP	3 PLACES	3 PLACES

SIGN MUST BE CONSTRUCTED OF A DURABLE, RESILIENT, WATER RESISTANT MATERIAL (SUCH AS PLASTIC OR METAL) AND MUST MEASURE AT LEAST 17" IN WIDTH AND 22" IN HEIGHT AND MUST LOOK EXACTLY AS SHOWN HERE.

HOURS OF OPERATION

SUNDAY	TO	
MONDAY	TO	
TUESDAY	TO	
WEDNESDAY	TO	
THURSDAY	TO	
FRIDAY	TO	
SATURDAY	TO	

TIMES TO BE COORDINATED WITH MANAGEMENT

HOURS OF OPERATION SIGN

POOL CLOSED

CHANGEABLE ENTRY SIGN

POOL EMERGENCY STOP
WHIRLPOOL SPA EMERGENCY STOP

INSTALL ABOVE EMERGENCY STOP BUTTON

POOL CLOSED | POOL OPEN

NOTE: BACK OF SIGN TO READ "POOL OPEN"

1'–8"
LIFEGUARD ON DUTY
1"

NOTE: BACK OF SIGN TO BE LEFT BLANK FOR USE WHEN POOL IS CLOSED

Air resuscitation equipment shall be made available to patrons at all times as required by the Dept. of Health. The following written statement shall be affixed to the outside of each envelope or container:

IN THE EVENT OF AN EMERGENCY, REQUEST ASSISTANCE BY DIALING 911

DO NOT ATTEMPT TO USE UNLESS TRAINED IN CARDIOPULMONARY RESUSCITATION (CPR) AND IN THE USE OF EXHALED AIR RESUSCITATION MASKS

RESUSCITATION EQUIPMENT CONTENTS INCLUDE:

ONE ADULT EXHALED AIR RESUSCITATION MASK

ONE CHILD EXHALED AIR RESUSCITATION MASK

TWO PAIRS, LATEX GLOVES

DISCARD MASK AND GLOVES AFTER ONE USE

The written statement shall be presented in a manner which is readily visible, and lettering shall not be less than 1/2 inch in height.

GENERAL SIGN NOTES

1. SIGN VERBIAGE INDICATED IS THE MINIMUM REQUIRED BY THE NYC DEPARTMENT OF HEALTH AND MAY BE EXPANDED AT THE DISCRETION OF BUILDING OR HEALTH CLUB MANAGEMENT.
2. SIGNS MUST BE PERMANENT TYPE WITH GRAPHICS COLOR CONTRASTING TO THE FIELD COLOR.
3. IT IS ASSUMED THAT THE SIGNS WILL BE DESIGNED TO MATCH THE SIGN PACKAGE USED THROUGHOUT THE BUILDING OR IT MAY BE DEVELOPED SPECIFICALLY FOR THE AQUATIC FACILITY.
4. SIGNS SHOWN ARE GENERIC IN NATURE. REFER TO INTERIOR OR GRAPHICS DESIGN DRAWINGS FOR LAYOUT AND FONT DETAILS.
5. IN ADDITION TO SIGNS SHOWN, PROVIDE SIGNS INDICATING: "MEN'S LOCKER ROOM", "WOMEN'S LOCKER ROOM", "TO POOL", "POOL MECHANICAL ROOM", ETC. AS APPLICABLE
6. SIGNS MUST BE PLACED AT EYE LEVEL AND DESIGNED OF A SUFFICIENT SIZE AND FONT FOR LEGIBILITY.

2 SIGNAGE REQUIREMENTS
SCALE NTS

SWIMMING POOL RULES AND WARNINGS

A. ALL PERSONS MUST SHOWER BEFORE ENTERING POOL.

B. A MAXIMUM OF __ PERSONS PERMITTED WITHIN THE POOL AREA.

C. A MAXIMUM OF __ PERSONS PERMITTED IN POOL AT ANY ONE TIME.

D. PERSONS NOT DRESSED FOR BATHING SHALL ENTER UPON WALKS IMMEDIATELY ADJACENT TO POOLS, AND BATHERS SHALL NOT ENTER PLACES PROVIDED FOR SPECTATORS.

E. SHALLOW WATER. NO DIVING ALLOWED.

F. NO REFRESHMENTS ARE ALLOWED WITHIN THE POOL AREA.

G. PROLONGED AND REPETITIVE BREATH HOLDING CAN BE DEADLY. NO INTENTIONAL HYPERVENTILATION OR COMPETITIVE BREATH-HOLDING IS PERMITTED.

H. URINATING, EXPECTORATING OR BLOWING THE NOSE, OR ALLOWING HUMAN WASTE INTO THE POOL IS PROHIBITED. CHILDREN'S DIAPERS SHALL BE FULLY ENCLOSED WITH IMPERVIOUS MATERIAL SO THAT LIQUID AND SOLID WASTE ARE CONTAINED THEREIN AND DO NOT CONTAMINATE THE POOL WATER.

I. NO PERSON HAVING ANY CONTAGIOUS DISEASE OR INFECTIOUS CONDITION SUCH AS SORES OR INFLAMED EYES, A COLD, NASAL OR EAR DISCHARGE, CUTS, BOILS OR OTHER EVIDENT SKIN OR OTHER BODILY INFECTION SHALL ENTER THE POOL.

J. NO PERSON UNDER THE INFLUENCE OF ALCOHOL OR EXHIBITING ERRATIC BEHAVIOR SHALL ENTER THE POOL OR THE POOL DECK.

K. NO ONE IS PERMITTED IN THE POOL WHEN A LIFEGUARD IS NOT AT THE POOL SIDE.

L. PETS ARE NOT PERMITTED IN THE POOL AREA.

M. EMERGENCY TELEPHONE NUMBER FOR POLICE, FIRE AND HOSPITAL IS 911.

JDS DEVELOPMENT GROUP
DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR.
NEW YORK, NY 10011
tel 646.625.3640

shop
ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JASON BAUM & BOLLES
MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 13TH FLOOR
NEW YORK, NY 10005
tel 212.530.6000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS
STRUCTURAL ENGINEER
WSP CANTOR SEINUK
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NEW YORK, NY 10017
tel 212.887.9888

Mueser Rutledge Consulting Engineers
GEOTECHNICAL ENGINEER
MRCE
250 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF
CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9626

vda
VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti
FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7500

GACHOT
INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS
HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

BOLD
LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey
ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 506
NEW YORK, NY 10018
tel 212.315.6450

ENTEX ENGINEERING LLC
BMU ENGINEER
ENTEX ENGINEERING
106 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2502

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.966.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2020

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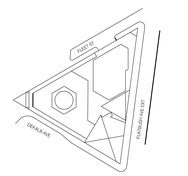
POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.465.4090

METROPOLIS GROUP, INC.
CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344



SITE DIAGRAM

07/15/16 DOB FILING SET

DATE ISSUE NO. DATE REVISION

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DRAWING TITLE

INDOOR LAP POOL AND WHIRLPOOL FACILITY PLAN

SEAL & SIGNATURE

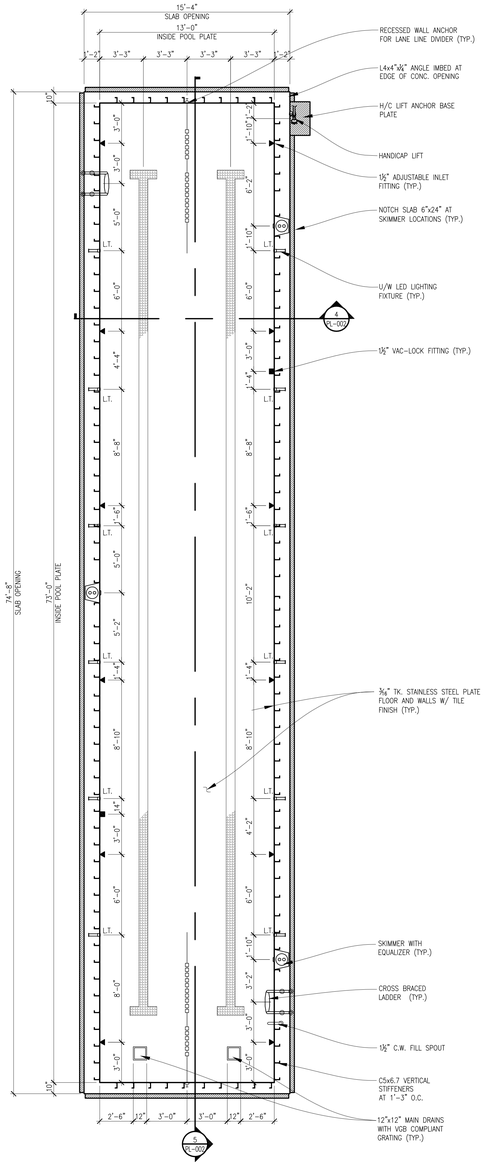
REGISTERED ARCHITECT JOSEPH A. PASQUINELLI 026060 STATE OF NEW YORK

DATE
PROJECT NO. 1850-00
DRAWN BY KP/CC
CHECKED BY
JOB NO. DOB NO.
DRAWING NUMBER

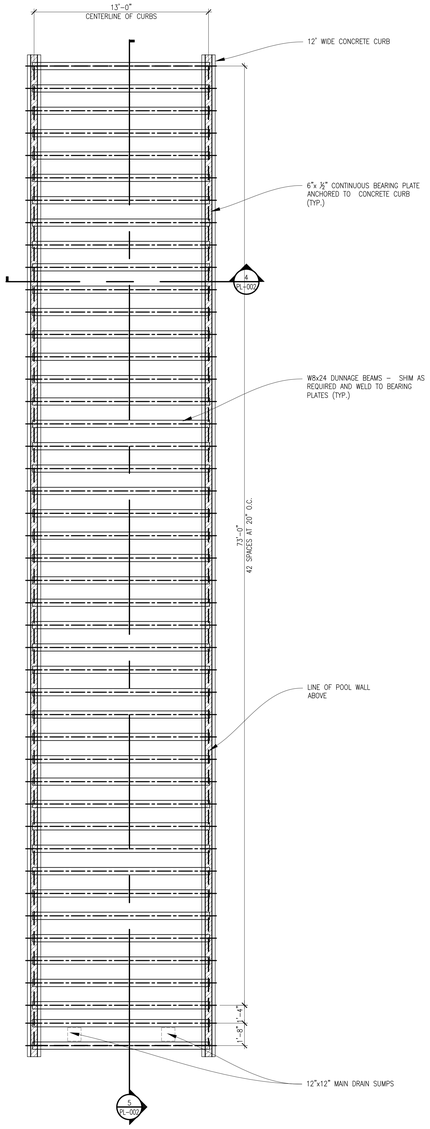
A-801.00

DEPT OF BUILDINGS 320014336 Job Number

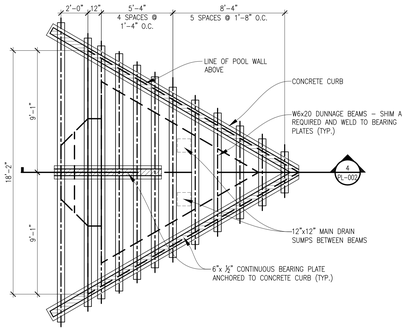
B3000770948 Scan Code



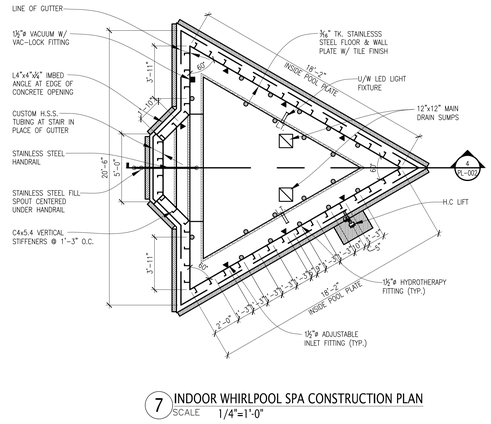
1 INDOOR LAP POOL CONSTRUCTION PLAN
SCALE 1/4"=1'-0"



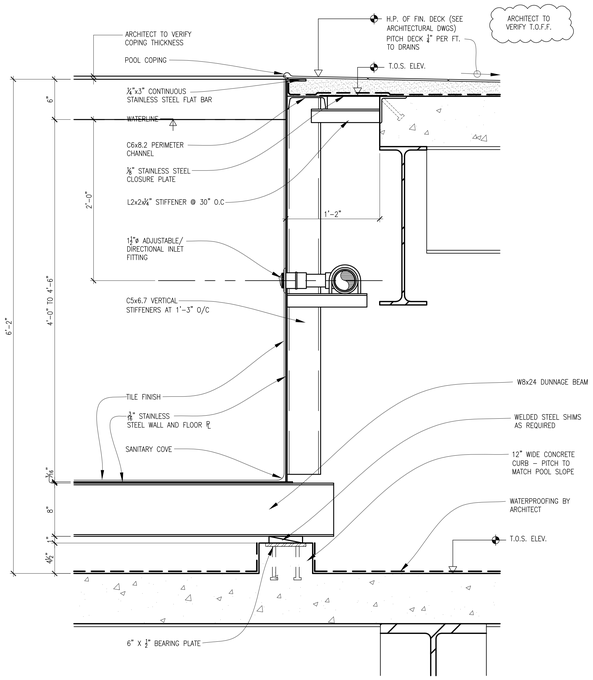
2 INDOOR LAP POOL FRAMING PLAN
SCALE 1/4"=1'-0"



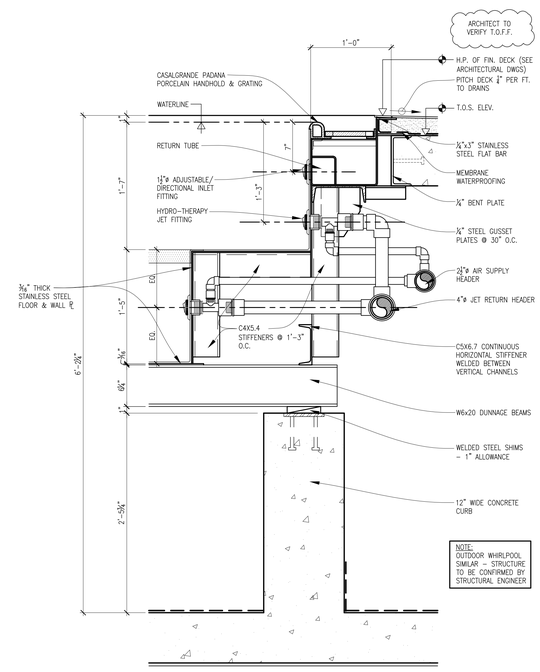
6 INDOOR WHIRLPOOL SPA FRAMING PLAN
SCALE 1/4"=1'-0"



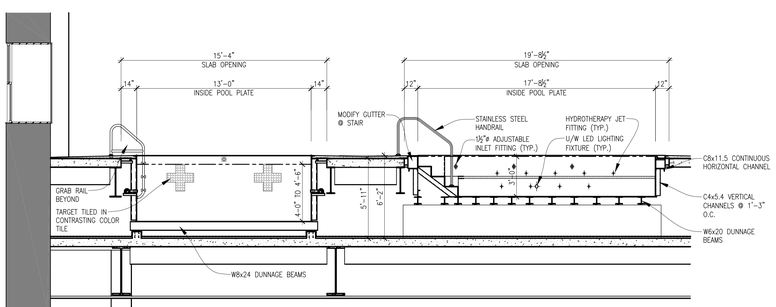
7 INDOOR WHIRLPOOL SPA CONSTRUCTION PLAN
SCALE 1/4"=1'-0"



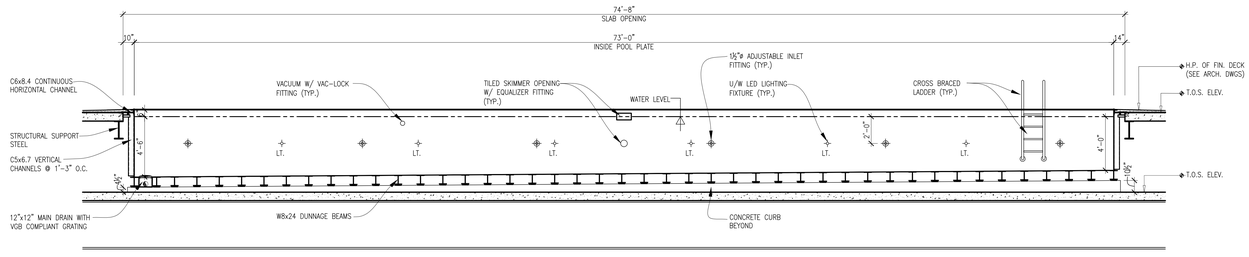
3 INDOOR LAP POOL TYPICAL WALL DETAIL
SCALE 1 1/2" =1'-0"



3 INDOOR WHIRLPOOL TYPICAL WALL DETAIL
SCALE 1 1/2" =1'-0"



4 TRANSVERSE SECTION THRU POOL & WHIRLPOOL
SCALE 1/4"=1'-0"



5 LONGITUDINAL SECTION THRU POOL
SCALE 1/4"=1'-0"

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 13TH FLOOR
NEW YORK, NY 10005
tel 212.530.6000

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.887.9888

GEOTECHNICAL ENGINEER
MRCE
230 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9626

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, # 19
NEW YORK, NY 10010
tel 917.661.7500

INTERIORS
GACHOT
104 BROADWAY SUITE 500
NEW YORK, NY 10012
tel 646.666.0846

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6540

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 506
NEW YORK, NY 10018
tel 212.315.6450

BMU ENGINEER
ENTEX ENGINEERING
186 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

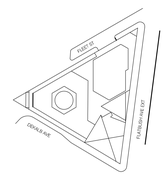
DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7500

BUILDING ENERGY
VIDARIS
350 PARK AVENUE SOUTH 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.465.4090

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344



SITE DIAGRAM

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DRAWING TITLE

INDOOR LAP POOL AND WHIRLPOOL PLANS, SECTIONS & DETAILS

SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASQUARELLI STATE OF NEW YORK

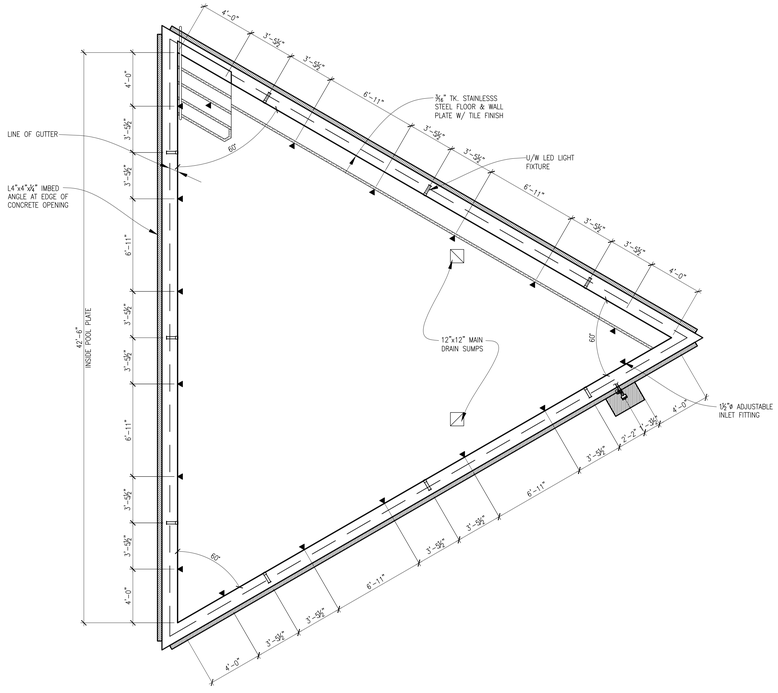
DATE	
PROJECT NO.	1852-00
DRAWN BY	KP/CC
CHECKED BY	
LOR NO.	DOB NO.

DRAWING NUMBER

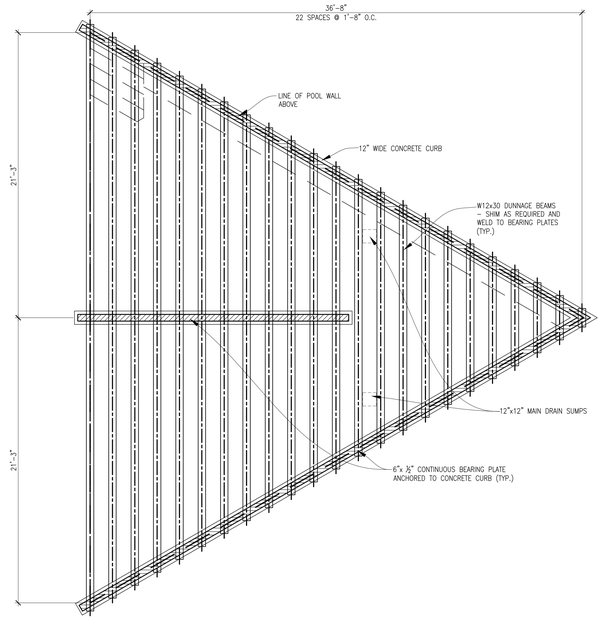
A-802.00

DEPT OF BUILDINGS 320924336 Job Number

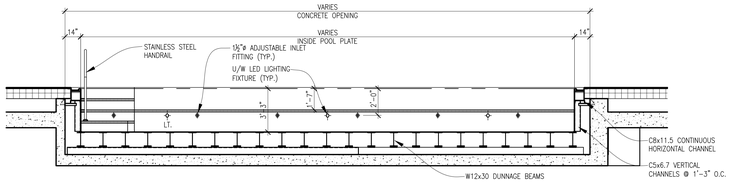
BS1906511336 Scan Code



1 OUTDOOR LEISURE POOL CONSTRUCTION PLAN
SCALE 1/4"=1'-0"



2 OUTDOOR LEISURE POOL FRAMING PLAN
SCALE 1/4"=1'-0"



3 TRANSVERSE SECTION OF OUTDOOR LEISURE POOL
SCALE 1/4"=1'-0"

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
M 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
M 212.889.9005

JAROS, BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
63 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
M 212.530.6000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
M 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
230 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
M 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
M 646.388.9626

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
M 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
M 917.661.7500

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 309
NEW YORK, NY 10012
M 646.666.0846

JHPA

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
M 212.759.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
M 212.674.6000

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 506
NEW YORK, NY 10018
M 212.315.6400

ENTEX ENGINEERING LLC

BMU ENGINEER
ENTEX ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
M 201.820.2922

SIMPSON GUMPERTZ & HEGER

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
M 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
260 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
M 212.689.5389

BUROHAPPOLD ENGINEERING

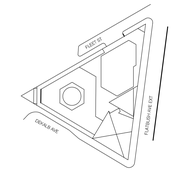
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
M 212.334.2925

Lechner TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
M 914.465.4060

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 32TH FLOOR
NEW YORK, NY 10007
M 212.233.6344



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DRAWING TITLE

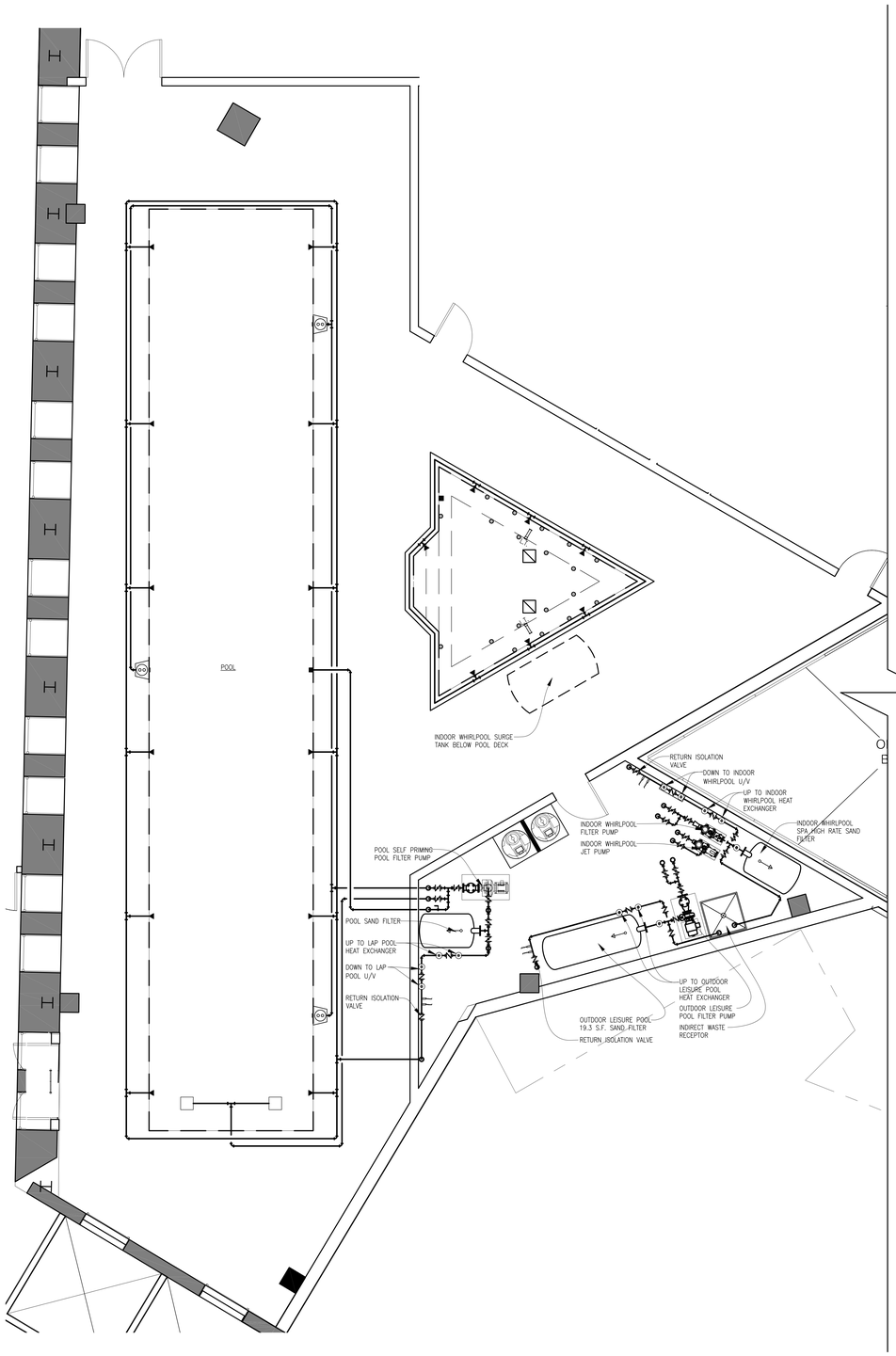
OUTDOOR LEISURE POOL PLANS & SECTION

SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASQUARELLI STATE OF NEW YORK

DATE
PROJECT NO. 1852-00
DRAWN BY KP/CC
CHECKED BY
LOR NO. DOB NO.
DRAWING NUMBER
A-803.00

DEPT OF BUILDINGS 320014336 Job Number
E350052329M Scan Code



1 POOL AND WHIRLPOOL PIPING PLAN
SCALE 1/4"=1'-0"

POOL DESIGN DATA

POOL VOLUME	30,169 GALLONS
TYPE OF FILTER	COMMERCIAL HIGH RATE SAND
DESIGN FILTER RATE	130 GPM
DESIGN TURNOVER TIME	3.87 HRS.
TOTAL FILTER AREA	12.6 SQ. FT.
FILTER APPLIC. RATE (GPM/SF)	10.3 GPM/SF
DISINFECTION	UV/SODIUM HYPOCHLORITE

POOL PUMP DATA

MFGR./MODEL	ITT MARLOW EC-3P1
R.P.M.	1750
VOLTAGE	208V. 3ø
SUCTION	4"
DISCHARGE	3"
CAPACITY	130 G.P.M. @ 65' T.D.H.
H.P.	5

POOL FILTER ROOM EQUIPMENT SCHEDULE

SYM.	QTY.	ITEM/DESCRIPTION
A	1	FILTER: HORIZONTAL COMMERCIAL SAND TYPE MANUFACTURED FROM REINFORCED FIBERGLASS, MER-MADE FILTER MODEL 132-64, 12.6 SQ. FT. FILTER AREA. THE TANK SHALL HAVE A WALL THICKNESS OF 0.3" DESIGNATED FOR A 50 PSI WORKING PRESSURE. THE OVER DRAIN TOP LATERAL SHALL BE SCHEDULE 40 PVC PIPE WITH SLOTTED ORIFICES. MANIFOLD PIPING SHALL BE 3" SCHEDULE 80 PVC. A MANHOLE SHALL BE PLACED ON THE SIDE. FURNISH WITH SAND & GRAVEL PER MANUFACTURER. THE FILTER ASSEMBLY SHALL BE NSF APPROVED.
B	1	FILTER PUMP & STRAINER: THE PUMP SHALL BE A SINGLE STAGE, END SUCTION SELF-PRIMING UNIT WITH A CAPACITY OF 170 GPM AT 65 FT. T.D.H, CLOSE COUPLED TO A 5.0 HP, 1750 R.P.M MOTOR. THE PUMP SHALL BE AN ITT MARLOW MODEL EC-3P1 CONNECTED TO A MER-MADE INC. 4"x3" FRP ECCENTRIC REDUCING STRAINER W/ SPARE STRAINER BASKET.
C	1	SIGHT GLASS: TO BE DEFLECTING VANE TYPE, CAST BRONZE WITH REMOVABLE COVER, STANDARD BRONZE MODEL NO. 4244 OR EQUAL. PROVIDE A 4"X4" GLUE & CLAMP TYPE SADDLE, 1 1/2" F.P.T. TO RECEIVE SIGHT GLASS.
D	1 SET	GAUGES: TO BE INFLUENT AND EFFLUENT PRESSURE GAUGES WITH A RANGE OF 0-60 PSI, MOUNTED AT THE SAME LEVEL IN AN INTEGRAL PANEL ON THE FACE OF THE FILTER. DIAL FACE TO BE 4" DIAMETER, ASHCROFT OR EQUAL GAUGES.
E	1	FLOW METER: TO BE GF SIGNET ANALOG G 5090 FOR 4"ø PIPE WITH A SCALE RANGE FROM 0 TO 1000 GPM, FURNISHED COMPLETE WITH A SIGNET 515 ROTOR-X PADDLEWHEEL FLOW SENSOR & SADDLE.
F	1	CHEMICAL FEED PUMP (ORP): PERISTALTIC TYPE METERING PUMP COMPLETE WITH PLASTIC FLEXIBLE TUBING, CHECK & RELIEF VALVES, AND FOOT STRAINER. CAPACITY SHALL BE 38 G.P.D., ROLA-CHEM MODEL NO. RC-103SC.
G	1	CHEMICAL FEED PUMP (PH): PERISTALTIC TYPE METERING PUMP COMPLETE WITH PLASTIC FLEXIBLE TUBING, CHECK & RELIEF VALVES, AND FOOT STRAINER. CAPACITY SHALL BE 0-12 G.P.D., ROLA-CHEM MODEL NO. RC-25/53SC.
H	2	SOLUTION TANKS: THE TANKS SHALL BE A CHEMTAINER MODEL TC2738DC, 50 GALLON MOLDED DOUBLE WALL POLYETHYLENE WITH COVER. TANKS SHALL BE LABELED "CHLORINE" AND "ACID" AS APPLICABLE.
I	1	CHEMICAL CONTROLLER: TO BE LINK AUTOMATION, INC. "POOL LINK" MODEL PL-103 COMPLETE PH AND ORP PROBES, AND A TREATMENT SPECIALTIES, INC. FLOW CELL ASSEMBLY, INCLUDING FLOW SWITCH, AND ALL VALVES & FITTINGS.
J	1	POOL HEATER: CU BRAZED PLATE HEAT EXCHANGER, 580,000 BTUH. ALFA LAVAL OR EQUAL, FURNISHED COMPLETE WITH HONEYWELL MANUAL RESET AQUASTAT, INCLUDING ½" NPT BRASS WELL. SEE MEP DRAWINGS FOR HOT SIDE PIPING AND CONTROLS.
K	1	ELECTRIC CONTROL PANEL: CUSTOM FABRICATED CONTROL PANEL WITH NEMA 4X HINGED, LOCKING COVER TO CONTAIN MAGNETIC STARTER FOR 5 HP 208V 3 PHASE FILTER PUMP. STARTER TO HAVE A 120V COIL AND BE FURNISHED WITH AUXILIARY CONTACTS FOR HEATER & CHEMICAL FEED INTERLOCK. START/STOP SWITCH, LED'S AND GF SIGNET FLOW METER DIAL TO BE MOUNTED IN THE COVER, LABELED AS SHOWN.
L	1	U.V. CHAMBER: AQUA ULTRAVIOLET VIPER SERIES 400 WATT STAINLESS STEEL UNIT 4" DIA. CONNECTIONS WITH A MANUAL WIPER FEATURE AND FLOW SWITCH (120V)

NOTE:

OUTDOOR WHIRLPOOL EQUIPMENT WILL BE SIMILAR

WHIRLPOOL SPA DESIGN DATA

POOL VOLUME	2569 GALLONS
TYPE OF FILTER	COMMERCIAL HIGH RATE SAND
DESIGN FILTER RATE	100 GPM
DESIGN TURNOVER TIME	.43 HRS.
TOTAL FILTER AREA	10.0 SQ. FT.
FILTER APPLIC. RATE (GPM/SF)	10.0 GPM/SF
DISINFECTION	UV/SODIUM HYPOCHLORITE

WHIRLPOOL SPA PUMP DATA

MFGR./MODEL	PENTAIR XFK-8
R.P.M.	3450
VOLTAGE	208V. 3ø
SUCTION	2"
DISCHARGE	2"
CAPACITY	100 G.P.M. @ 65' T.D.H.
H.P.	2

WHIRLPOOL SPA FILTER ROOM EQUIPMENT SCHEDULE

SYM.	QTY.	ITEM/DESCRIPTION
M	1	FILTER: HORIZONTAL COMMERCIAL SAND TYPE MANUFACTURED FROM REINFORCED FIBERGLASS, MER-MADE FILTER MODEL 132-52, 10.0 SQ. FT. FILTER AREA. THE TANK SHALL HAVE A WALL THICKNESS OF 0.3" DESIGNATED FOR A 50 PSI WORKING PRESSURE. THE OVER DRAIN TOP LATERAL SHALL BE SCHEDULE 40 PVC PIPE WITH SLOTTED ORIFICES. MANIFOLD PIPING SHALL BE 3" SCHEDULE 80 PVC. A MANHOLE SHALL BE PLACED ON THE SIDE. FURNISH WITH SAND & GRAVEL PER MANUFACTURER. THE FILTER ASSEMBLY SHALL BE NSF APPROVED.
N	1	FILTER PUMP & STRAINER: THE PUMP SHALL BE A SINGLE STAGE, END SUCTION SELF-PRIMING UNIT WITH A CAPACITY OF 100 GPM AT 65 FT. T.D.H, CLOSE COUPLED TO A 2.0 HP, 3450 R.P.M MOTOR. THE PUMP SHALL BE AN PENTAIR MODEL XFK-8 CONNECTED W/ INTEGRAL STRAINER. PROVIDE SPARE STRAINER BASKET.
O	1	SIGHT GLASS: TO BE DEFLECTING VANE TYPE, CAST BRONZE WITH REMOVABLE COVER, STANDARD BRONZE MODEL NO. 4244 OR EQUAL. PROVIDE A 4"X4" GLUE & CLAMP TYPE SADDLE, 1 1/2" F.P.T. TO RECEIVE SIGHT GLASS.
P	1 SET	GAUGES: TO BE INFLUENT AND EFFLUENT PRESSURE GAUGES WITH A RANGE OF 0-60 PSI, MOUNTED AT THE SAME LEVEL IN AN INTEGRAL PANEL ON THE FACE OF THE FILTER. DIAL FACE TO BE 2" DIAMETER, ASHCROFT OR EQUAL GAUGES.
Q	1	FLOW METER: TO BE GF SIGNET ANALOG G 5090 FOR 2"ø PIPE WITH A SCALE RANGE FROM 0 TO 1000 GPM, FURNISHED COMPLETE WITH A SIGNET 515 ROTOR-X PADDLEWHEEL FLOW SENSOR & SADDLE.
R	1	CHEMICAL FEED PUMP (ORP): PERISTALTIC TYPE METERING PUMP COMPLETE WITH PLASTIC FLEXIBLE TUBING, CHECK & RELIEF VALVES, AND FOOT STRAINER. CAPACITY SHALL BE 38 G.P.D., ROLA-CHEM MODEL NO. RC-103SC.
S	1	CHEMICAL FEED PUMP (PH): PERISTALTIC TYPE METERING PUMP COMPLETE WITH PLASTIC FLEXIBLE TUBING, CHECK & RELIEF VALVES, AND FOOT STRAINER. CAPACITY SHALL BE 0-12 G.P.D., ROLA-CHEM MODEL NO. RC-25/53SC.
T	2	SOLUTION TANKS: THE TANKS SHALL BE A CHEMTAINER MODEL TC2738DC, 50 GALLON MOLDED DOUBLE WALL POLYETHYLENE WITH COVER. TANKS SHALL BE LABELED "CHLORINE" AND "ACID" AS APPLICABLE. (SHARED WITH INDOOR POOL)
U	1	CHEMICAL CONTROLLER: TO BE LINK AUTOMATION, INC. "POOL LINK" MODEL PL-103 COMPLETE PH AND ORP PROBES, AND A TREATMENT SPECIALTIES, INC. FLOW CELL ASSEMBLY, INCLUDING FLOW SWITCH, AND ALL VALVES & FITTINGS.
V	1	POOL HEATER: CU BRAZED PLATE HEAT EXCHANGER, 300,000 BTUH. ALFA LAVAL OR EQUAL, FURNISHED COMPLETE WITH HONEYWELL MANUAL RESET AQUASTAT, INCLUDING ½" NPT BRASS WELL. SEE MEP DRAWINGS FOR HOT SIDE PIPING AND CONTROLS.
W	1	ELECTRIC CONTROL PANEL: CUSTOM FABRICATED CONTROL PANEL WITH NEMA 4X HINGED, LOCKING COVER TO CONTAIN MAGNETIC STARTER FOR 2 HP 208V 3 PHASE FILTER PUMP. STARTER TO HAVE A 120V COIL AND BE FURNISHED WITH AUXILIARY CONTACTS FOR HEATER & CHEMICAL FEED INTERLOCK. START/STOP SWITCH, LED'S AND GF SIGNET FLOW METER DIAL TO BE MOUNTED IN THE COVER, LABELED AS SHOWN.
X	1	U.V. CHAMBER: AQUA ULTRAVIOLET VIPER SERIES 400 WATT STAINLESS STEEL UNIT 4" DIA. CONNECTIONS WITH A MANUAL WIPER FEATURE AND FLOW SWITCH (120V) (INDOOR ONLY)
Y	1	SURGE TANK: FIBERGLASS HORIZONTAL SURGE TANK W/ 154 GAL. SURGE CAPACITY. TANK SHALL BE 42"ø AND BE 7'-0" LONG WITH FLANGED CONNECTIONS FOR 3"ø PUMP SUCTION, 6"ø MAIN DRAIN, 4"ø OVERFLOW GUTTER, 3"ø VENT & A 2"ø DRAIN. FURNISHED WITH A 6" DUAL FLOAT MODULATING VALVE AND AN ACCESS MANHOLE. MER-MADE OR EQUAL.

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR.
NEW YORK, NY 10011
tel 646.625.3640

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.6000

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.887.9888

GEOTECHNICAL ENGINEER
MRCE
230 WEST 39TH STREET 6TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9626

VERTICAL TRANSPORTATION
VAN DELUSEN & ASSOCIATES
120 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7500

INTERIORS
GACHOT
104 BROADWAY, SUITE 309
NEW YORK, NY 10012
tel 646.666.0846

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

EMU ENGINEER
ENTEK ENGINEERING
196 AKINS STREET
HACKENSACK, NJ 07601
tel 201.820.2800

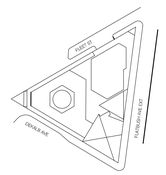
DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

BUILDING ENERGY
VIDARIS
350 FIFTH AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.889.5389

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2525

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4090

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344



2 SITE DIAGRAM

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DRAWING TITLE

INDOOR AND OUTDOOR POOL EQUIPMENT LAYOUTS

SEAL & SIGNATURE

REGISTERED ARCHITECT JOSEPH A. PASQUARELLI STATE OF NEW YORK

DATE
PROJECT NO. 1852-00
DRAWN BY KP/CC
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JOB NO. DOB NO.
DRAWING NUMBER

A-804.00

DEPT OF BLDGS 320914338 Job Number
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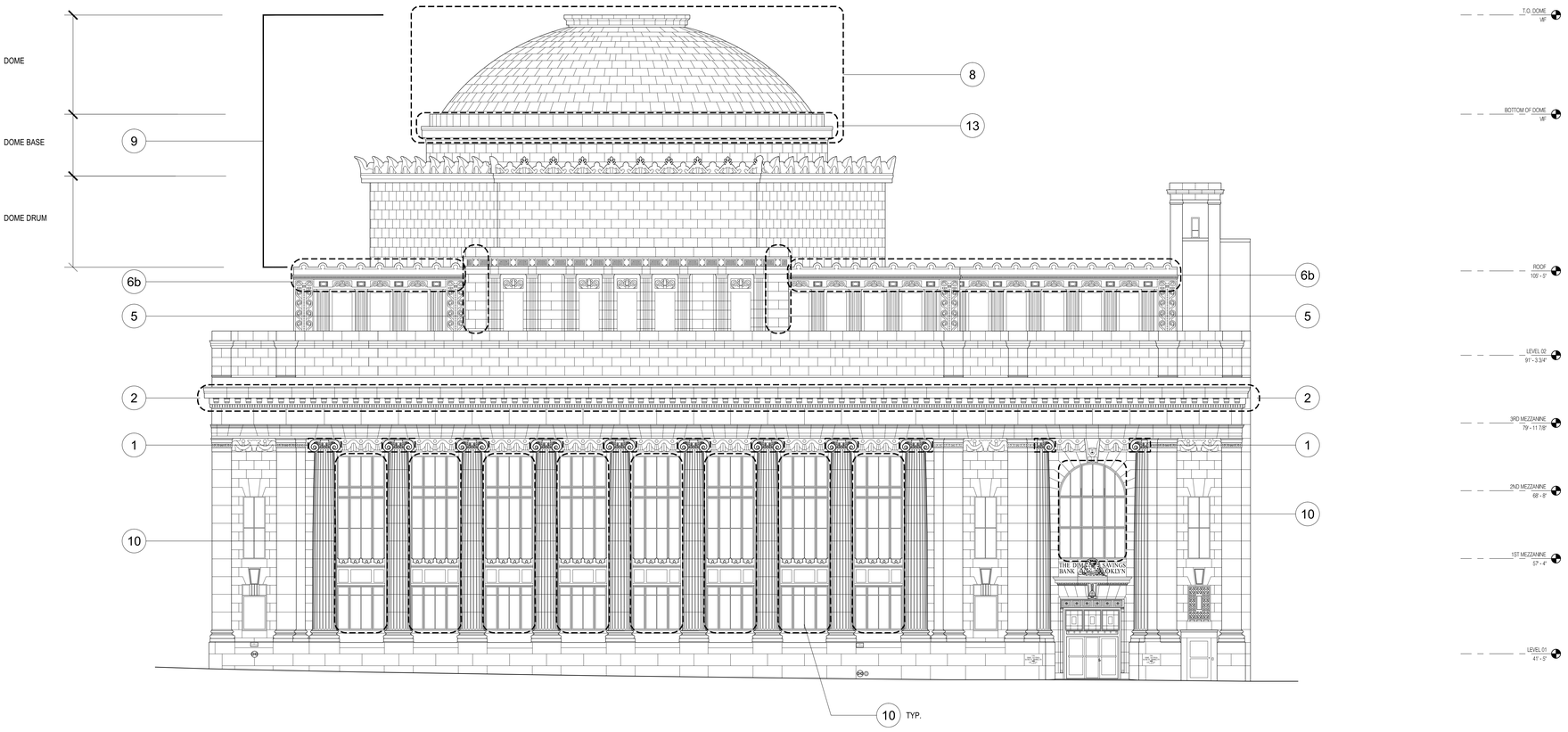
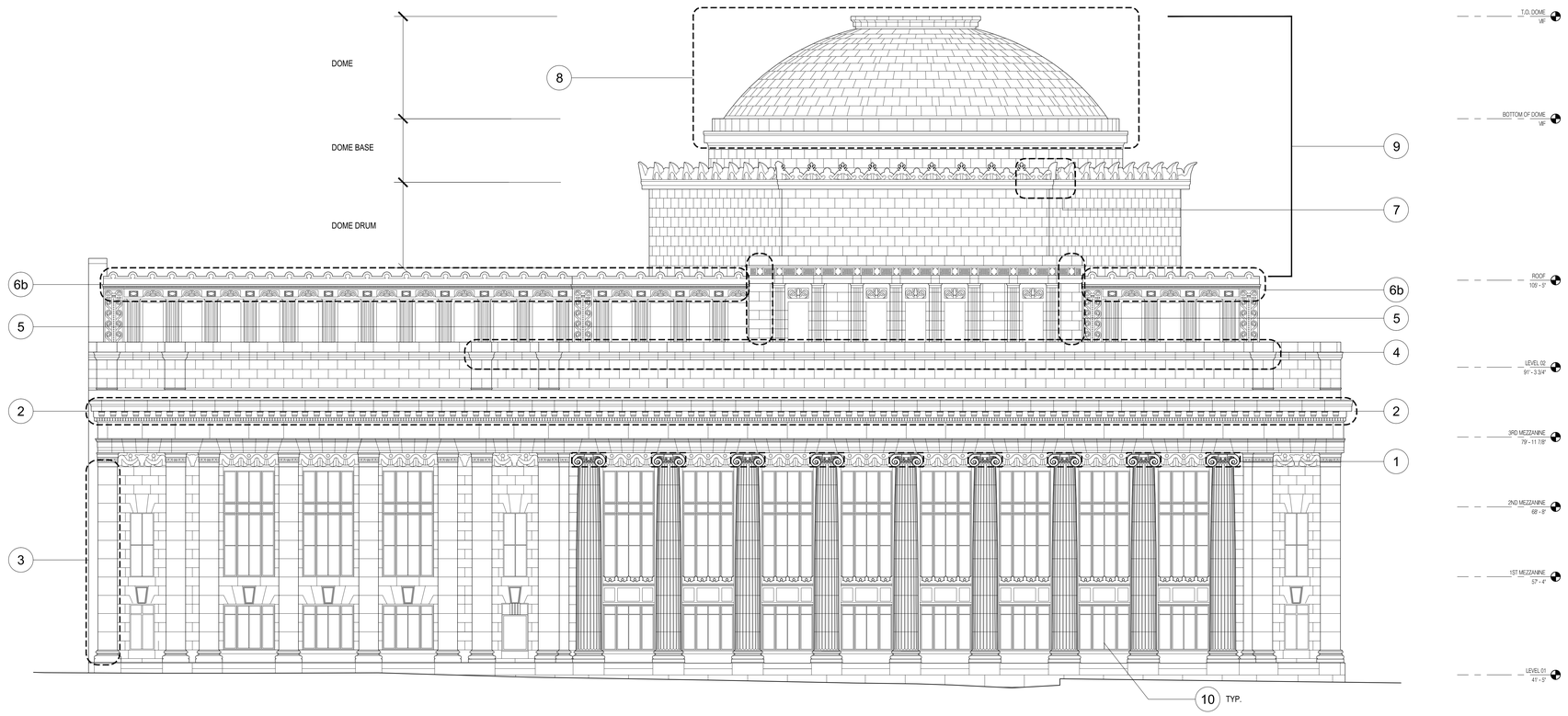


DEKALB AVE ELEVATION - HISTORIC PRESERVATION | 1/8" = 1'-0" | 2 | EM-201.00 | HP-300.00



FLEET STREET ELEVATION - HISTORIC PRESERVATION | 1/8" = 1'-0" | 1 | EM-201.00 | HP-300.00

PRELIMINARY SCOPE OF WORK FOR EXTERIOR RESTORATION SCOPE FROM VISUAL SURVEY:

(PROBES ARE REQUIRED TO DETERMINE THE EXTENT OF DETERIORATION AND TO CLARIFY REQUIRED REPAIRS.) A FINAL SCOPE OF WORK FOR EXTERIOR RESTORATION WILL BE SUBMITTED AFTER COMPLETION AND DOCUMENTATION OF PROBES. ALL WORK PROPOSED ON THESE DRAWINGS IS RESTORATIVE IN NATURE AND WILL BE DONE WITH MATERIALS CLOSELY MATCHING THOSE OF EXISTING CONSTRUCTION. (MARBLE, TERRA COTTA, AND BRONZE WILL BE REPLACED IN KIND.)

1. COLUMN CAPITALS AT DEKALB, FLEET STREET, AND ALBEE SQUARE FACADES.
   a. INSPECT AND SOUND 100% OF ALL IONIC COLUMN CAPITALS FOR CRACKS, DISPLACEMENT, ETC.
   b. PIN AND/OR CRADLE VOLUTES WHICH DISPLAY CRACKS THREATENING FAILURE (ALLOW FOR 50% INSTALLATION OF PINS OF CRADLES) .

2. CORNICE MODILLIONS AND MASONRY (SEE PROBE #8)
   a. INSPECT AND SOUND 100% OF CORNICE MODILLIONS AND CORNICE MASONRY.
   b. REMOVE AND REPLACE CRACKED AND SAGGING MODILLIONS WITH NEW MARBLE MODILLIONS TO MATCH EXISTING EXACTLY.
   c. ALLOW 50% REPLACEMENT OF DAMAGED/DISPLACED MODILLIONS.

3. MARBLE VENEER AT NORTH CORNER OF FLEET STREET FAÇADE (SEE PROBE #4):
   a. DISASSEMBLE AND SALVAGE MARBLE VENEER FOR ENTIRE HEIGHT OF CORNER PILASTER.
   b. CLEAN, REPAIR AND PAINT STRUCTURAL STEEL PER PE'S RECOMMENDATIONS.
   c. REINSTALL SALVAGED MARBLE VENEER AND PROVIDE NEW MARBLE TO MATCH EXISTING EXACTLY.
   d. ALLOW 50% REPLACEMENT OF DAMAGED MARBLE.

4. PARAPET WALL COPINGS AT FLEET STREET AND DEKALB STREET FAÇADES (SEE PROBE #6):
   a. REMOVE AND DISCARD UNSALVAGEABLE CRACKED MARBLE WALL COPINGS.
   b. PROVIDE NEW MARBLE WALL COPINGS TO MATCH EXISTING EXACTLY.
   c. NOTE: CRACKING IS PRIMARILY ON INTERIOR FACE.
   d. ALLOW 50% REPLACEMENT OF CRACKED COPINGS.

5. TERRA COTTA ATTIC FLOOR CLADDING (SEE PROBE #1):
   a. DISASSEMBLE DAMAGED AREAS OF TERRA COTTA AT ALL FOUR CORNERS
   b. CLEAN, REPAIR AND PAINT STRUCTURAL STEEL PER PE'S RECOMMENDATIONS.
   c. REINSTALL SALVAGED TERRA COTTA AND PROVIDE NEW TERRA COTTA TO MATCH EXISTING EXACTLY.

6. COPPER CLADDING (SEE PROBE #3):
   a. REMOVE AND DISCARD INTERIOR WALL FINISHES AT ATTIC FLOOR TO DETERMINE WHERE INTERIOR LEAKAGE IS OCCURRING IN AREAS OF COPPER CLADDING.
   b. REMOVE AND SALVAGE SELECTED PORTIONS OF 'ACROTERIA' BAND AS REQUIRED TO ADDRESS LEAKAGE AND REPLACE DAMAGED FERROUS SUPPORT ARMATURES WITH NEW COPPER ARMATURES.
   c. REINSTALL SALVAGED EXISTING SHEET COPPER WITH NEW COPPER FASTENERS AND COPPER ARMATURES WHERE REQUIRED.

7. DOME DRUM CORNICE (SEE PROBE #7):
   a. DISASSEMBLE AND SALVAGE TERRA COTTA OF DAMAGED AREAS OF CORNICE AT ALL CORNERS OF HEXAGONAL DOME DRUM.
   b. CLEAN, REPAIR AND PAINT STRUCTURAL STEEL AND REPLACE DAMAGED CONCRETE PER PE'S RECOMMENDATIONS.
   c. REINSTALL SOUND SALVAGED TERRA COTTA CORNICE ELEMENTS AND PROVIDE NEW TERRA COTTA TO MATCH EXISTING EXACTLY.

8. DOME BASE AND DOME:
   a. DISASSEMBLE AND SALVAGE TERRA COTTA BASE OF DOME AT 12 VERTICAL CRACKS CORRESPONDING TO STEEL COLUMN LOCATIONS.
   b. REPLACE EXISTING WATERPROOFING WITH NEW MEMBRANE. REPLACE EXISTING DETERIORATED ARMATURES WITH NEW STAINLESS STEEL ARMATURES.
   c. REINSTALL SOUND SALVAGED TERRA COTTA CORNICE ELEMENTS AND PROVIDE NEW TERRA COTTA TO MATCH EXISTING EXACTLY.

9. TERRA COTTA CLADDING GLAZE REPAIRS:
   a. PERFORM COSMETIC REPAIRS TO AREAS OF GLAZE FAILURE ON TERRA COTTA CLADDING OF ATTIC, DRUM, AND DOME.

10. BRONZE WINDOW RESTORATION:
    a. CLEAN AND WAX EXTERIOR BRONZE MULLIONS, MUNTINS, AND SPANDREL SURFACES OF MAJOR WINDOWS OF FLEET AND DEKALB FACADES.
    b. NOTE: EXTERIOR RESTORATION WILL NOT INCLUDE INTERIOR OR GLAZING MODIFICATIONS.

11. ALBEE SQUARE ENTRY FAÇADE (SEE SELECTIVE DISASSEMBLY):
    a. REMOVE AND DISCARD EXISTING ATM ENCLOSURES (NOTE: SCOPE OF FAÇADE RESTORATION WORK TO CLARIFIED ONLY AFTER ATM REMOVALS.)
    b. RESTORE MASONRY OF ALBEE SQUARE ENTRY FAÇADE, AS REQUIRED.
    c. RESTORE SIDE ENTRY DOORS AS REQUIRED.
    d. DISASSEMBLE MAIN ENTRY DOORS AND FRAMES FOR RESTORATION AND REPLACEMENT OF MISSING AND DAMAGED CASTINGS.
    e. REFURBISH OR REPLACE OPERATIONAL HARDWARE.
    f. REPLACE MISSING CASINGS FLANKING CENTRAL TRUMEAU WITH NEW CASINGS OF CAST BRONZE REPLICATING ORIGINAL.
    g. CLEAN, REPATINATE, AND WAX RESTORED ENTRY DOORS.

12. HAVE CONSERVATOR SAMPLE AND ANALYZE ORIGINAL MORTARS OF MARBLE, GRANITE, AND TERRA COTTA. RAKE AN REPOINT JOINTS OF MARBLE, GRANITE, AND TERRA COTTA WITH MORTARS FORMULATED BY CONSERVATOR TO MATCH EXISTING

13. HAVE CONSERVATOR PERFORM TESTS FOR CLEANING OF MARBLE, GRANITE AND TERRA COTTA. CLEAN EACH EXTERIOR MASONRY MATERIAL WITH APPROVED CLEANING METHOD.

NOT FOR CONSTRUCTION

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.5000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Muener Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
230 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9626

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION & PLANNING

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.730.6540

BOLD

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2525

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4090

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

SITE DIAGRAM

07.15.16 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

PRELIMINARY SCOPE OF WORK FOR EXTERIOR RESTORATION NOT FOR CONSTRUCTION

SEAL & SIGNATURE

REGISTERED ARCHITECT CHRISTOPHER E. ROGERS 031615 STATE OF NEW YORK

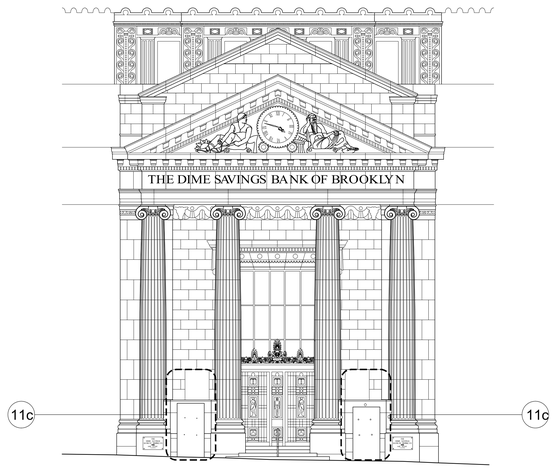
DATE	07/15/16
PROJECT NO.	
DRAWN BY	JHPA
CHECKED BY	JHPA
DOB NO.	320914338

DRAWING NUMBER

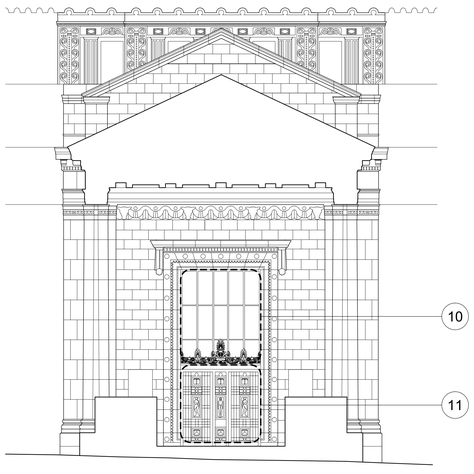
HP-300.00

DEPT OF BLDGS 320914338 Job Number

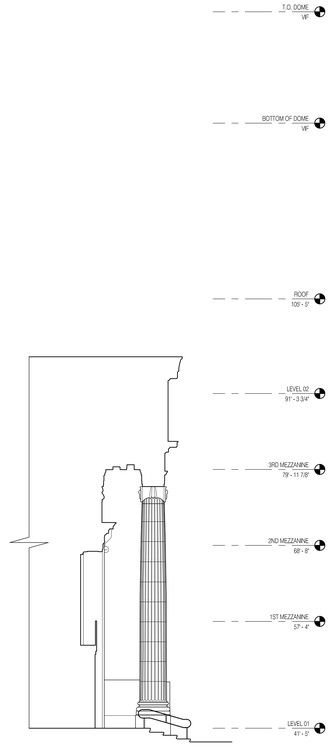
X 320880308705 Scan Code



ALBEE SQUARE ELEVATION 1 - HISTORIC PRESERVATION | 1/8" = 1'-0" | 1 HP-301.00



ALBEE SQUARE ELEVATION 2 - HISTORIC PRESERVATION | 1/8" = 1'-0" | 2 HP-301.00



ALBEE SQUARE SECTION - HISTORIC PRESERVATION | 1/8" = 1'-0" | 3 HP-301.00

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.5000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9628

vda

VERTICAL TRANSPORTATION
VAN DELUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0845

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

BOLD

LIGHTING
BOLD
207 WEST 25TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
330 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4780

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 32TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE.

9 DEKALB AVE.
NEW YORK, NY 11201

SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
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DRAWING TITLE

PRELIMINARY SCOPE OF WORK FOR EXTERIOR RESTORATION NOT FOR CONSTRUCTION

SEAL & SIGNATURE

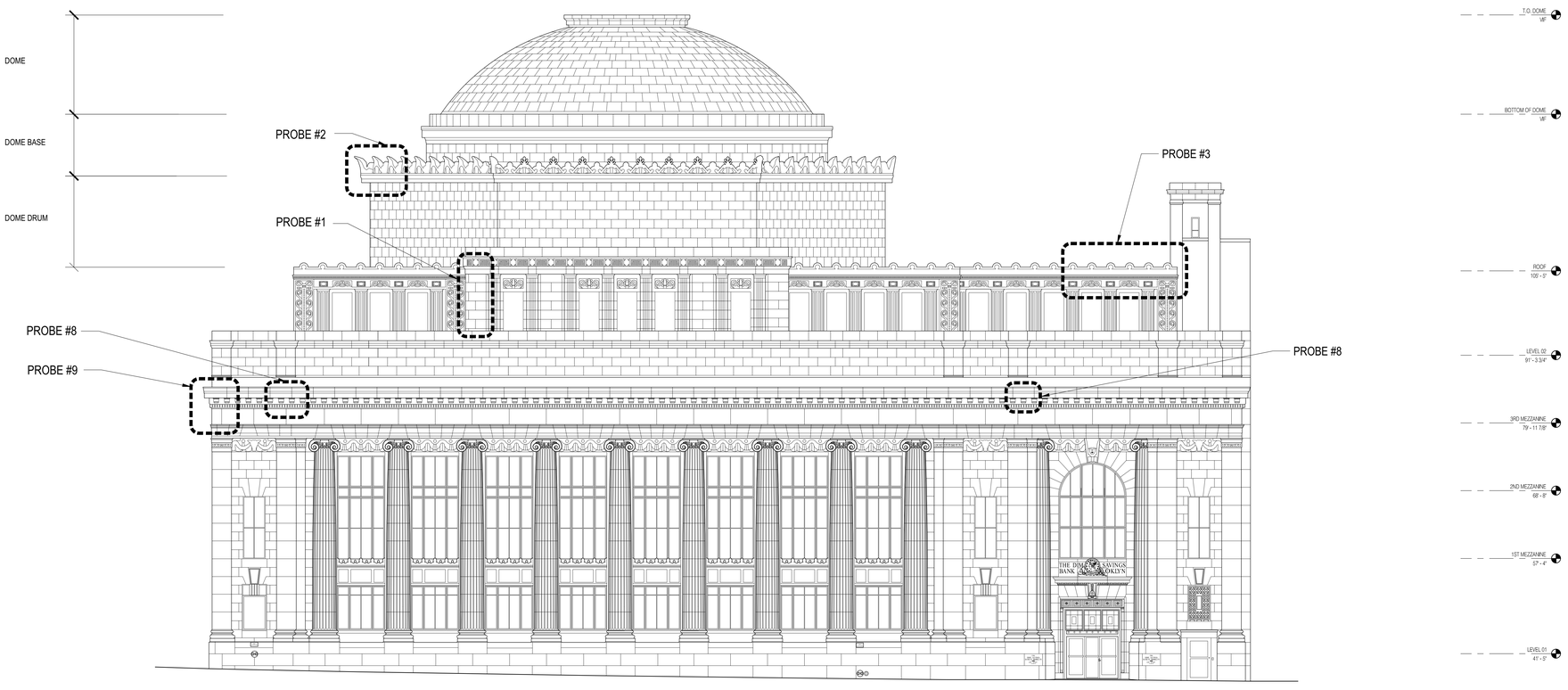
REGISTERED ARCHITECT CHRISTOPHER E. ROSCHEWSKI 032810 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	
DRAWN BY	JHPA
CHECKED BY	JHPA
DOB NO.	320914338

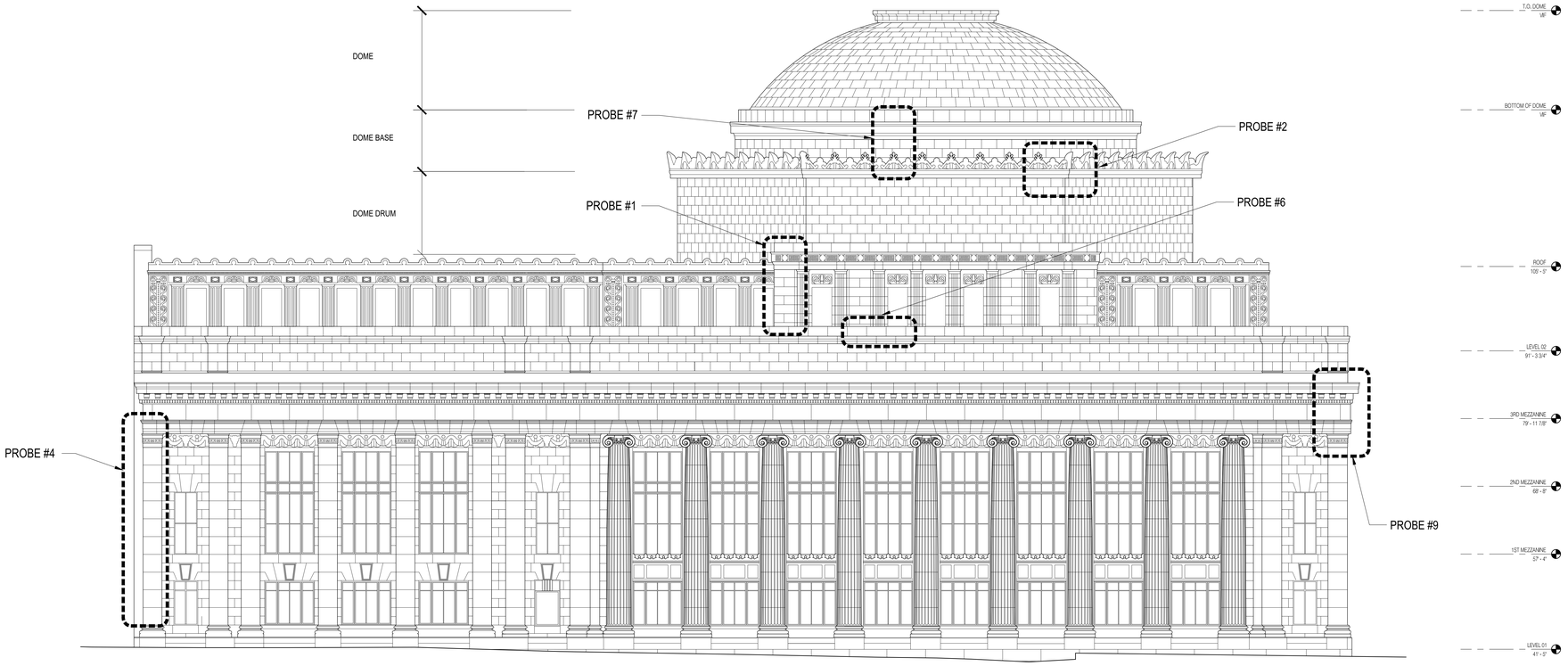
DRAWING NUMBER

HP-301.00

DEPT OF BUILDINGS 320914338 Job Number
E350704713564 Scan Code



DEKALB AVE ELEVATION - HISTORIC PRESERVATION | 1/8" = 1'-0" | 2 | EM-201.00 | HP-300.00



FLEET STREET ELEVATION - HISTORIC PRESERVATION | 1/8" = 1'-0" | 1 | EM-201.00 | HP-300.00

PROPOSED PROBES OF EXTERIOR DETERIORATION

PHOTOGRAPHS AND A FULL DESCRIPTION OF PROPOSED PROBES ARE INCLUDED IN A TEXT REPORT THAT ACCOMPANIES THESE DRAWINGS.

1. REMOVE AND SALVAGE SECTIONS OF CRACKED TERRA COTTA WALL CLADDING AT THE NORTHWEST AND SOUTHEAST EXTERIOR CORNERS OF THE FIFTH OR "ATTIC" FLOOR (LEVEL 02). REMOVE BACKUP MASONRY AS NECESSARY TO EXPOSE STRUCTURAL STEEL AT TOP AND BOTTOM OF EACH OF THE TWO CORNERS AS REQUIRED BY STRUCTURAL ENGINEER. FOLLOWING DOCUMENTATION OF PROBE, REPAIR AND REINSTALL BACKUP MASONRY AND SALVAGED TERRA COTTA UNITS AS POSSIBLE.

2. REMOVE AND SALVAGE CORNER SECTION OF CRACKED TERRA COTTA CORNICE AT SOUTHWEST CORNER OF THE HEXAGONAL DOME DRUM. REMOVE BACKUP MASONRY AND DAMAGED CONCRETE TO EXPOSE STRUCTURAL STEEL. FOLLOWING DOCUMENTATION OF PROBE, REPAIR AND REINSTALL SALVAGED TERRA COTTA UNITS. PROVIDE WATERPROOFING TO REINSTALLED TERRA COTTA AS DIRECTED BY ARCHITECT.

3. REMOVE AND SALVAGE 8'-0" LONG SECTION OF SHEET COPPER ACROTERIA BAND AT TOP OF COPPER ATTIC FLOOR CLADDING NEAR NORTHERN END OF EAST ATTIC WALL. SEPARATE BAND BY DE-SWEATING SEAMS ONLY, DO NOT CUT COPPER. FOLLOWING DOCUMENTATION OF PROBE, REINSTALL SALVAGED COPPER CLADDING WITH NEW COPPER ARMATURES. PROVIDE WATERPROOFING TO REINSTALLED COPPER CLADDING AS DIRECTED BY ARCHITECT.

4. REMOVE AND SALVAGE (4) MARBLE ASHLAR WALL CLADDING ELEMENTS AT THE NORTHWEST CORNER. REMOVE BACKUP MASONRY TO EXPOSE STRUCTURAL STEEL AS REQUIRED BY STRUCTURAL ENGINEER. FOLLOWING PROBE DOCUMENTATION, INSTALL NEW BACKUP MASONRY AND REPAIR AND REINSTALL SALVAGED ASHLAR UNITS.

5. REMOVE AND SALVAGE RECENT ANODIZED SHEET ALUMINUM REPLACEMENT CASING AT CAST BRONZE TRUMEAU OF MAIN ENTRY. FOLLOWING DOCUMENTATION OF THE PROBE, REINSTALL SALVAGED SHEET ALUMINUM CASINGS.

6. REMOVE AND SALVAGE (2) SEVERELY CRACKED WALL COPINGS AT THE ATTIC LEVEL OF FLEET ST. FACADE AT TWO LOCATIONS (PRECISE LOCATION FOR REMOVAL TO BE DETERMINED BY STRUCTURAL ENGINEER). FOLLOWING DOCUMENTATION OF PROBE, REPAIR AND REINSTALL SALVAGED COPINGS IF POSSIBLE. IF COPINGS BREAK APART PROVIDE TEMPORARY UNIT MASONRY INFILL AND MEMBRANE WATERPROOFING OF BRICK SUBSTRATE AND ADJACENT REMAINING COPINGS.

7. REMOVE AND SALVAGE SECTION OF TERRA COTTA CLADDING OF DOME BASE BENEATH THE HEXAGONAL DOME DRUM, AND ABOVE THE ROOF OF THE DRUM. FOLLOWING DOCUMENTATION OF PROBE, INSTALL NEW BACKUP MASONRY AND REPAIR AND , IF POSSIBLE, REINSTALL SALVAGED TERRA COTTA UNITS. PROVIDE WATERPROFING TO REINSTALLED TERRA COTTA AS DIRECTED BY ARCHITECT.

8. REMOVE (2) SEPARATE SECTIONS OF CORNICE AS INDICATED ON DRAWINGS AND ATTENDANT MODILLIONS. FOLLOWING DOCUMENTATION OF PROBE, REINSTALL CORNICE ELEMENTS AND MODILLIONS.

9. REMOVE SOUTHWEST CORNER OF THE MAIN ENTRY PEDIMENT AND (5) AFFECTED MODILLIONS. FOLLOWING DOCUMENTATION OF PROBE, REINSTALL PEDIMENT ELEMENTS AND MODILLIONS AS POSSIBLE. PROVIDE INFILL MASONRY AND WATERPROOFING AS DIRECTED BY ARCHITECT. FOR A PROBE OF THE CRACKED COLUMN SHAFT BENEATH THE ENDS OF THE ENTRY PEDIMENT, DRILL A 1/2" HOLE AT THE JOINT BETWEEN THE TOPMOST DRUM AND THE ONE DIRECTLY BELOW IN EACH OF THE EASTERNMOST AND WESTERNMOST COLUMNS AT THE PEDIMENT. HOLE SHOULD BE LOCATED IN THE REAR FACE OF THE COLUMNS. FOLLOWING DOCUMENTATION OF PROBE, HOLES SHOULD BE FILLED WITH A GROUT APPROVED BY ARCHITECT.

SELECTIVE DISSASSEMBLY:
CAREFULLY REMOVE ALL NON-ORIGINAL ATM STATION FABRIC AT ALBEE SQUARE ENTRY WITHOUT DAMAGING ADJACENT ORIGINAL MATERIALS. GOAL OF DISASSEMBLY IS TO REVEAL ORIGINAL FABRIC TO ESTABLISH SCOPE OF WORK FOR RESTORATION OF ENTRY.

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
M 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 17TH FLOOR
NEW YORK, NY 10279
M 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
M 212.530.5000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
233 WEST 49TH STREET
NEW YORK, NY 10277
M 212.687.6666

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
M 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
M 646.388.9626

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
139 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
M 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
M 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
M 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
M 212.768.6540

BOLD

LIGHTING
BOLD
207 WEST 25TH STREET
NEW YORK, NY 10001
M 212.674.6000

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
M 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNEERING
106 AMES STREET
HACKENSACK, NJ 07601
M 201.820.2902

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
M 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
M 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
M 212.334.2025

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
M 914.455.4760

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 10TH FLOOR
NEW YORK, NY 10007
M 212.233.6344

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PROPOSED PROBES TO CLARIFY EXTENT OF DETERIORATION

SEAL & SIGNATURE

REGISTERED ARCHITECT CHRISTOPHER M. ROLLAND 026415 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	
DRAWN BY	JHPA
CHECKED BY	JHPA
DOB NO.	320914338

DRAWING NUMBER
HP-302.00

DEPT OF BUILDINGS 320914338 Job Number

E1624782088 Scan Code

PROPOSED PROBES OF EXTERIOR DETERIORATION

PHOTOGRAPHS AND A FULL DESCRIPTION OF PROPOSED PROBES ARE INCLUDED IN A TEXT REPORT THAT ACCOMPANIES THESE DRAWINGS.

1. REMOVE AND SALVAGE SECTIONS OF CRACKED TERRA COTTA WALL CLADDING AT THE NORTHWEST AND SOUTHEAST EXTERIOR CORNERS OF THE FIFTH OR "ATTIC" FLOOR (LEVEL 02). REMOVE BACKUP MASONRY AS NECESSARY TO EXPOSE STRUCTURAL STEEL AT TOP AND BOTTOM OF EACH OF THE TWO CORNERS AS REQUIRED BY STRUCTURAL ENGINEER. FOLLOWING DOCUMENTATION OF PROBE, REPAIR AND REINSTALL BACKUP MASONRY AND SALVAGED TERRA COTTA UNITS AS POSSIBLE.

2. REMOVE AND SALVAGE CORNER SECTION OF CRACKED TERRA COTTA CORNICE AT SOUTHWEST CORNER OF THE HEXAGONAL DOME DRUM. REMOVE BACKUP MASONRY AND DAMAGED CONCRETE TO EXPOSE STRUCTURAL STEEL. FOLLOWING DOCUMENTATION OF PROBE, REPAIR AND REINSTALL SALVAGED TERRA COTTA UNITS. PROVIDE WATERPROOFING TO REINSTALLED TERRA COTTA AS DIRECTED BY ARCHITECT.

3. REMOVE AND SALVAGE 8'-0" LONG SECTION OF SHEET COPPER ACROTERIA BAND AT TOP OF COPPER ATTIC FLOOR CLADDING NEAR NORTHERN END OF EAST ATTIC WALL. SEPARATE BAND BY DE-SWEATING SEAMS ONLY, DO NOT CUT COPPER. FOLLOWING DOCUMENTATION OF PROBE, REINSTALL SALVAGED COPPER CLADDING WITH NEW COPPER ARMATURES. PROVIDE WATERPROOFING TO REINSTALLED COPPER CLADDING AS DIRECTED BY ARCHITECT.

4. REMOVE AND SALVAGE (4) MARBLE ASHLAR WALL CLADDING ELEMENTS AT THE NORTHWEST CORNER. REMOVE BACKUP MASONRY TO EXPOSE STRUCTURAL STEEL AS REQUIRED BY STRUCTURAL ENGINEER. FOLLOWING PROBE DOCUMENTATION, INSTALL NEW BACKUP MASONRY AND REPAIR AND REINSTALL SALVAGED ASHLAR UNITS.

5. REMOVE AND SALVAGE RECENT ANODIZED SHEET ALUMINUM REPLACEMENT CASING AT CAST BRONZE TRUMEAU OF MAIN ENTRY. FOLLOWING DOCUMENTATION OF THE PROBE, REINSTALL SALVAGED SHEET ALUMINUM CASINGS.

6. REMOVE AND SALVAGE (2) SEVERELY CRACKED WALL COPINGS AT THE ATTIC LEVEL OF FLEET ST. FACADE AT TWO LOCATIONS (PRECISE LOCATION FOR REMOVAL TO BE DETERMINED BY STRUCTURAL ENGINEER). FOLLOWING DOCUMENTATION OF PROBE, REPAIR AND REINSTALL SALVAGED COPINGS IF POSSIBLE. IF COPINGS BREAK APART PROVIDE TEMPORARY UNIT MASONRY INFILL AND MEMBRANE WATERPROOFING OF BRICK SUBSTRATE AND ADJACENT REMAINING COPINGS.

7. REMOVE AND SALVAGE SECTION OF TERRA COTTA CLADDING OF DOME BASE BENEATH THE HEXAGONAL DOME DRUM, AND ABOVE THE ROOF OF THE DRUM. FOLLOWING DOCUMENTATION OF PROBE, INSTALL NEW BACKUP MASONRY AND REPAIR AND , IF POSSIBLE, REINSTALL SALVAGED TERRA COTTA UNITS. PROVIDE WATERPROOFING TO REINSTALLED TERRA COTTA AS DIRECTED BY ARCHITECT.

8. REMOVE (2) SEPARATE SECTIONS OF CORNICE AS INDICATED ON DRAWINGS AND ATTENDANT MODILLIONS. FOLLOWING DOCUMENTATION OF PROBE, REINSTALL CORNICE ELEMENTS AND MODILLIONS.

9. REMOVE SOUTHWEST CORNER OF THE MAIN ENTRY PEDIMENT AND (5) AFFECTED MODILLIONS. FOLLOWING DOCUMENTATION OF PROBE, REINSTALL PEDIMENT ELEMENTS AND MODILLIONS AS POSSIBLE. PROVIDE INFILL MASONRY AND WATERPROOFING AS DIRECTED BY ARCHITECT. FOR A PROBE OF THE CRACKED COLUMN SHAFT BENEATH THE ENDS OF THE ENTRY PEDIMENT, DRILL A 1/2" HOLE AT THE JOINT BETWEEN THE TOPMOST DRUM AND THE ONE DIRECTLY BELOW IN EACH OF THE EASTERNMOST AND WESTERNMOST COLUMNS AT THE PEDIMENT. HOLE SHOULD BE LOCATED IN THE REAR FACE OF THE COLUMNS. FOLLOWING DOCUMENTATION OF PROBE, HOLES SHOULD BE FILLED WITH A GROUT APPROVED BY ARCHITECT.

SELECTIVE DISSASSEMBLY:
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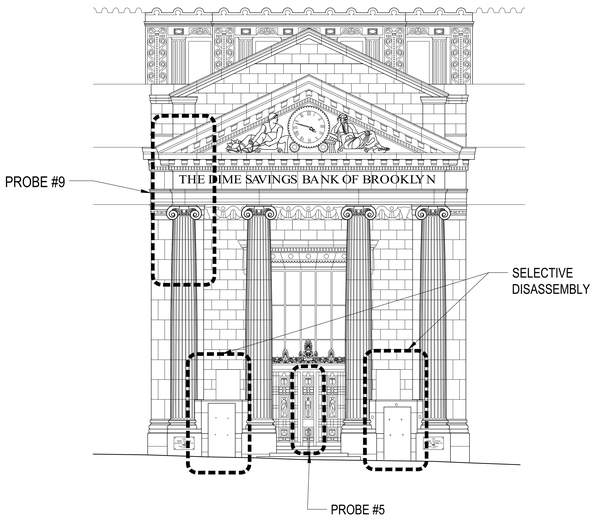
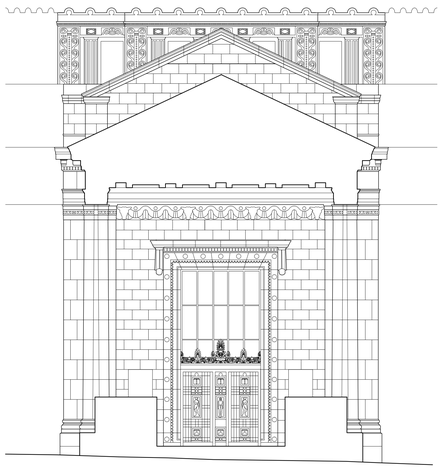
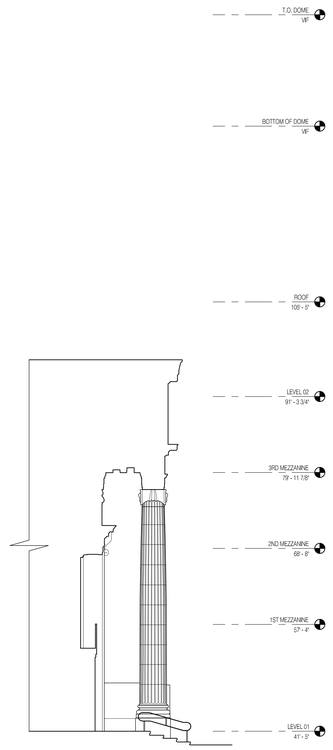


ALBEE SQUARE ELEVATION 1 - HISTORIC PRESERVATION | 1/8" = 1'-0" | 1 | HP-301.00



ALBEE SQUARE ELEVATION 2 - HISTORIC PRESERVATION | 1/8" = 1'-0" | 2 | HP-301.00



ALBEE SQUARE SECTION - HISTORIC PRESERVATION | 1/8" = 1'-0" | 3 | HP-301.00

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
250 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
30 PINE STREET, 37TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9626

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.730.6540

BOLD

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6000

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEX ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEX ENGINNEERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.3389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

METROPOLIS

CODE CONSULTANT
METROPOLIS GROUP, INC.
22 CORTLANDT STREET, 20TH FLOOR
NEW YORK, NY 10007
tel 212.233.6344

9 DEKALB AVE.

9 DEKALB AVE.
NEW YORK, NY 11201

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PROPOSED PROBES TO CLARIFY EXTENT OF DETERIORATION

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REGISTERED ARCHITECT CHRISTOPHER E. RODRIGUEZ 033615 STATE OF NEW YORK

DATE	07/15/16
PROJECT NO.	
DRAWN BY	JHPA
CHECKED BY	JHPA
DOB NO.	320914338
DRAWING NUMBER	HP-303.00

DEPT OF BLDGS 320214336 Job Number

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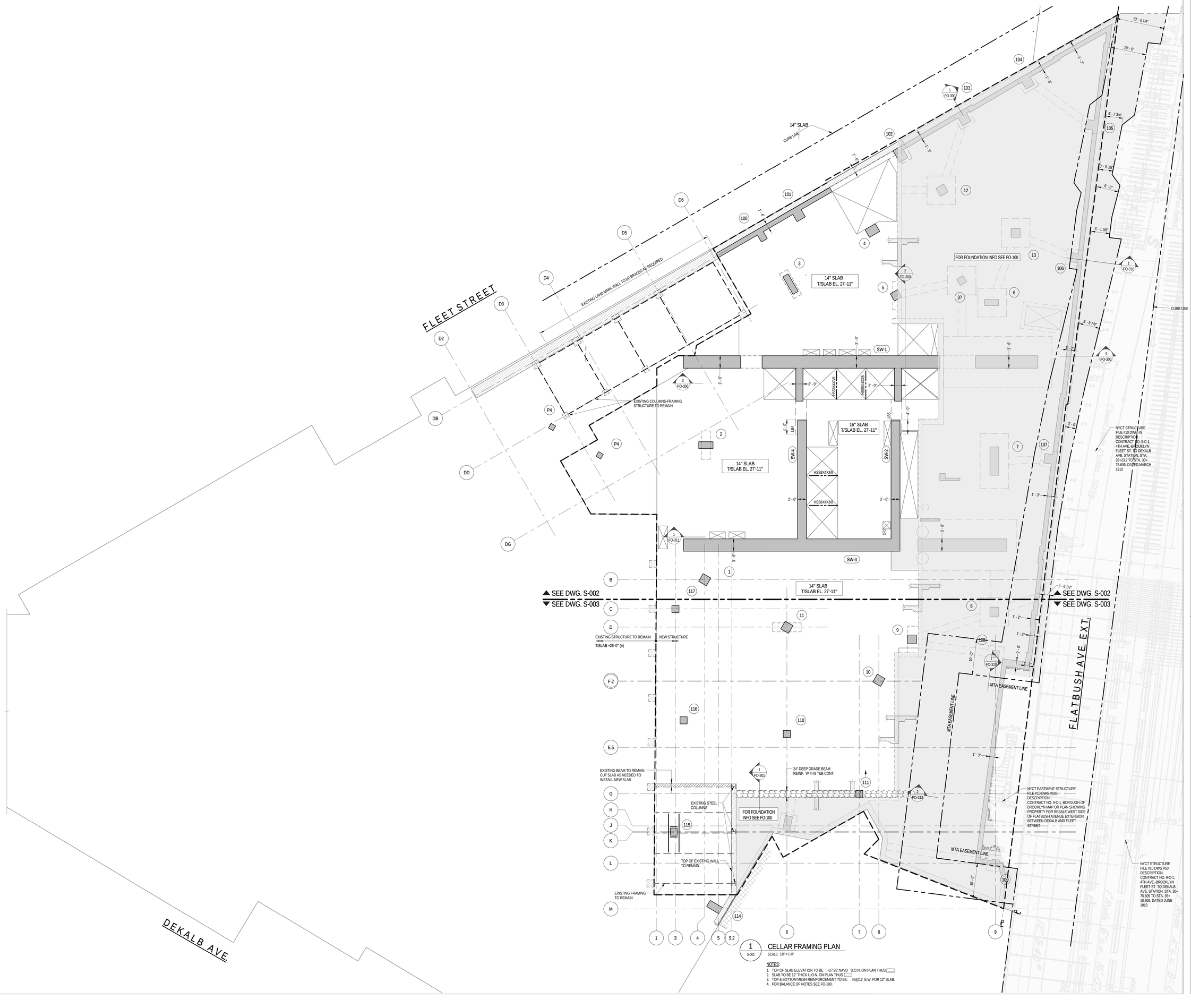


1 S-001 **CELLAR FRAMING PLAN**

SCALE: 1/8" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE +27.95' NAVD U.O.N. ON PLAN THUS
2. SLAB TO BE 12" THICK U.O.N. ON PLAN THUS
3. TOP & BOTTOM MESH REINFORCEMENT TO BE: #5@12 E.W. FOR 12" SLAB.
4. FOR BALANCE OF NOTES SEE FO-100.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.887.8808

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

VERTICAL TRANSPORTATION
VAN DELUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

BMU ENGINEER
ENTEK ENGINEERING
186 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

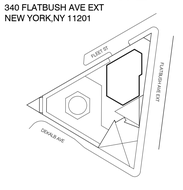
BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.686.5389

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4090

9 DEKALB AVE

340 FLATBUSH AVE EXT
NEW YORK,NY 11201



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CELLAR FRAMING PLAN

SEAL & SIGNATURE

DATE	02/27/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	SEH
DOB NO.	
DRAWING NUMBER	S-001.00

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DEPT OF BUILDINGS 320014338 Job Number

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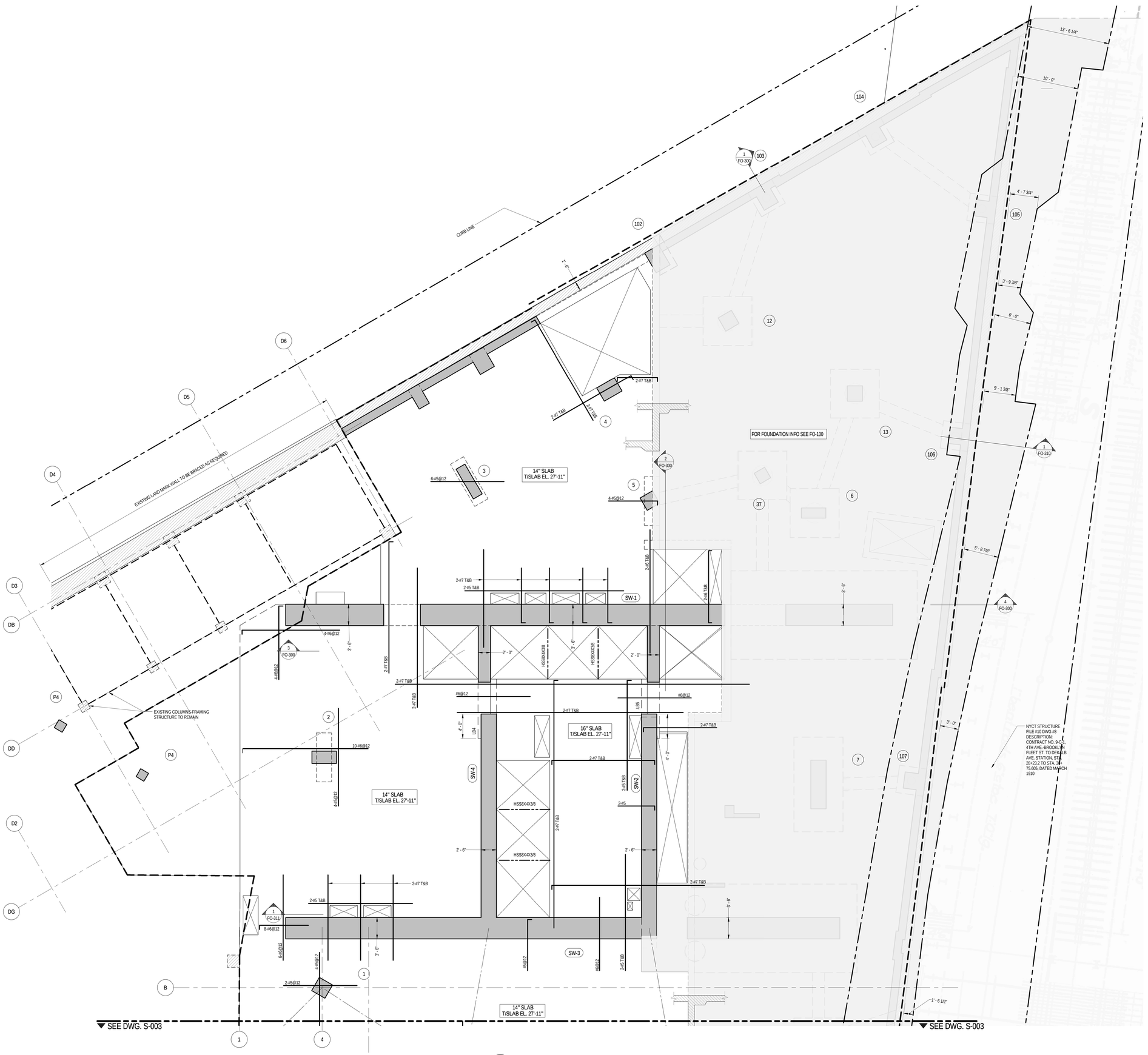

1 S-002 CELLAR FRAMING PART - 1

SCALE: 3/16" = 1'-0"

NOTES:

1. FOR BALANCE OF NOTES SEE S-001

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS, BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 13TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

JHPA

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6140

BOLD

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2800

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 15TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
300 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BURO HAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Latorco TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
330 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4090

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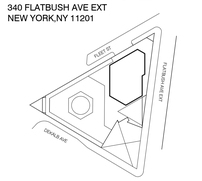
340 FLATBUSH AVE EXT
NEW YORK,NY 11201



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CELLAR FRAMING - PART 1

SEAL & SIGNATURE

STATE OF NEW YORK — BRIAN L. MARCH — LICENSED PROFESSIONAL ENGINEER

DATE	07/13/16
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB'S NO.	

DRAWING NUMBER

S-002.00

2/9/2016 3:21:09 PM

DEPT OF BLDGS 320143.536 Job Number
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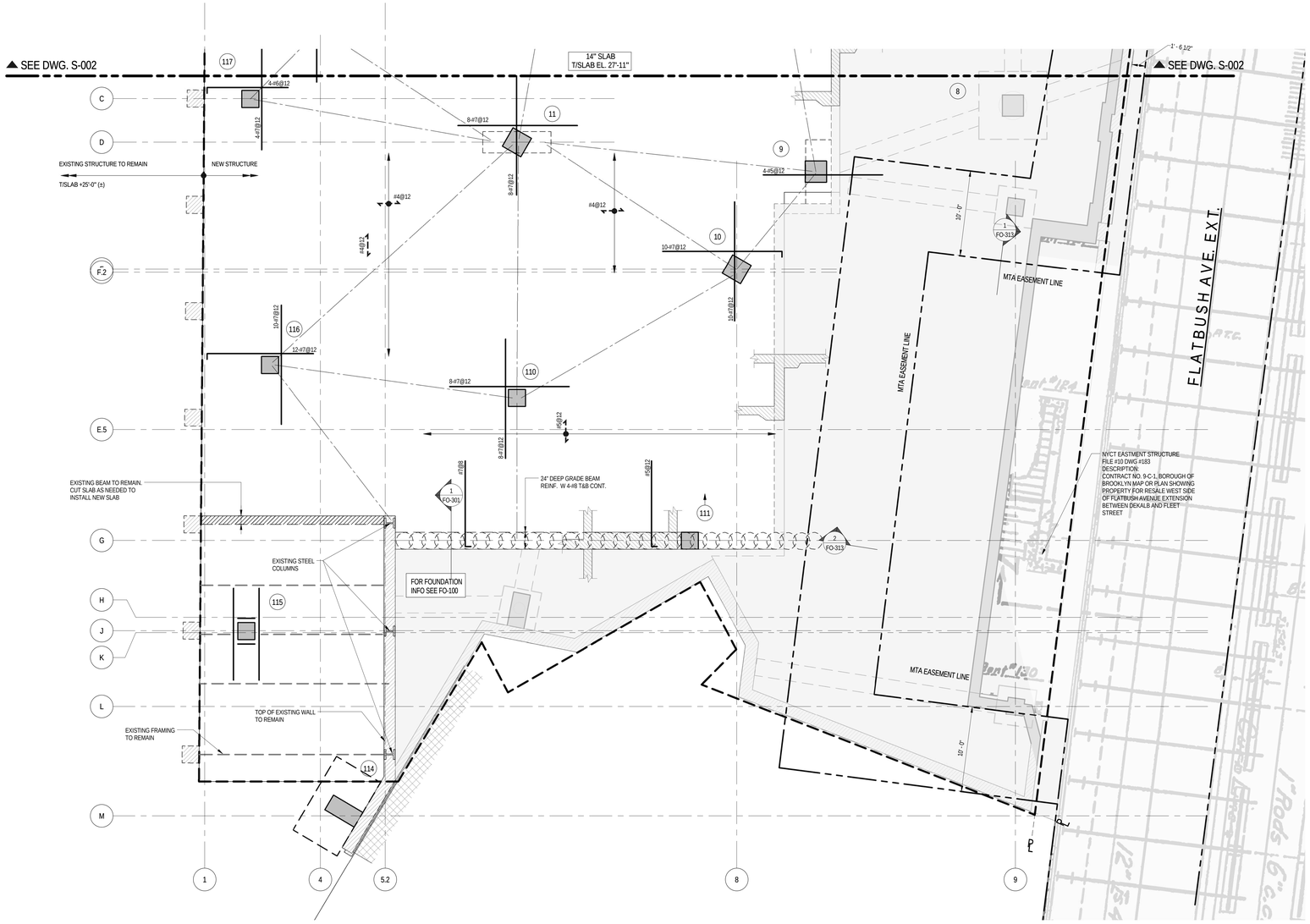

1 S-003 CELLAR FRAMING PART - 2

SCALE: 3/16" = 1'-0"

NOTES:

1. FOR BALANCE OF NOTES SEE S-001

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 48TH STREET
NEW YORK, NY 10017
tel 212.887.9808

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tel 917.339.9300

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AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

VERTICAL TRANSPORTATION
VAN DELUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-9540

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

BMU ENGINEER
ENTEK ENGINEERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 15TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
120 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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TRACE POOL DESIGN
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tel 914.485.4290

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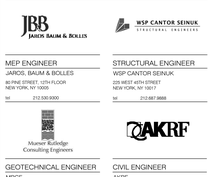
NEW YORK,NY 11201



SITE DIAGRAM

NO.	DATE	REVISION
1	2017/5/2018	DOB FILING SET

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DRAWING TITLE

CELLAR FRAMING - PART 2

SEAL & SIGNATURE

DATE	07/13/16
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-003.00

Plot 07/05/2018

DEPT OF BLDGS 320014336 Job Number
E3387993530 Scan Code

TYPICAL BEAM SCHEDULE

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT: BOTTOM CONTINUOUS	REINFORCEMENT: TOP CONTINUOUS	REINFORCEMENT: TOP ADD'L BARS AT SUPPORT	STIRRUPS: TYPE	STIRRUPS: SIZE	STIRRUPS: SPACING	REMARKS
TB1	8x14	2-#7	2-#7		1	#4	@6	
TB2	8x16	2-#7	2-#7		1	#4	@6	

TYPE 1

1ST FLOOR BEAM SCHEDULE

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT: BOTTOM CONTINUOUS	REINFORCEMENT: TOP CONTINUOUS	REINFORCEMENT: TOP ADD'L BARS AT SUPPORT	STIRRUPS: TYPE	STIRRUPS: SIZE	STIRRUPS: SPACING	REMARKS
1B1	24x30	4-#8	4-#10		1	#4	@12	
1B2	12x30	2-#9	2-#9		1	#4	@12	

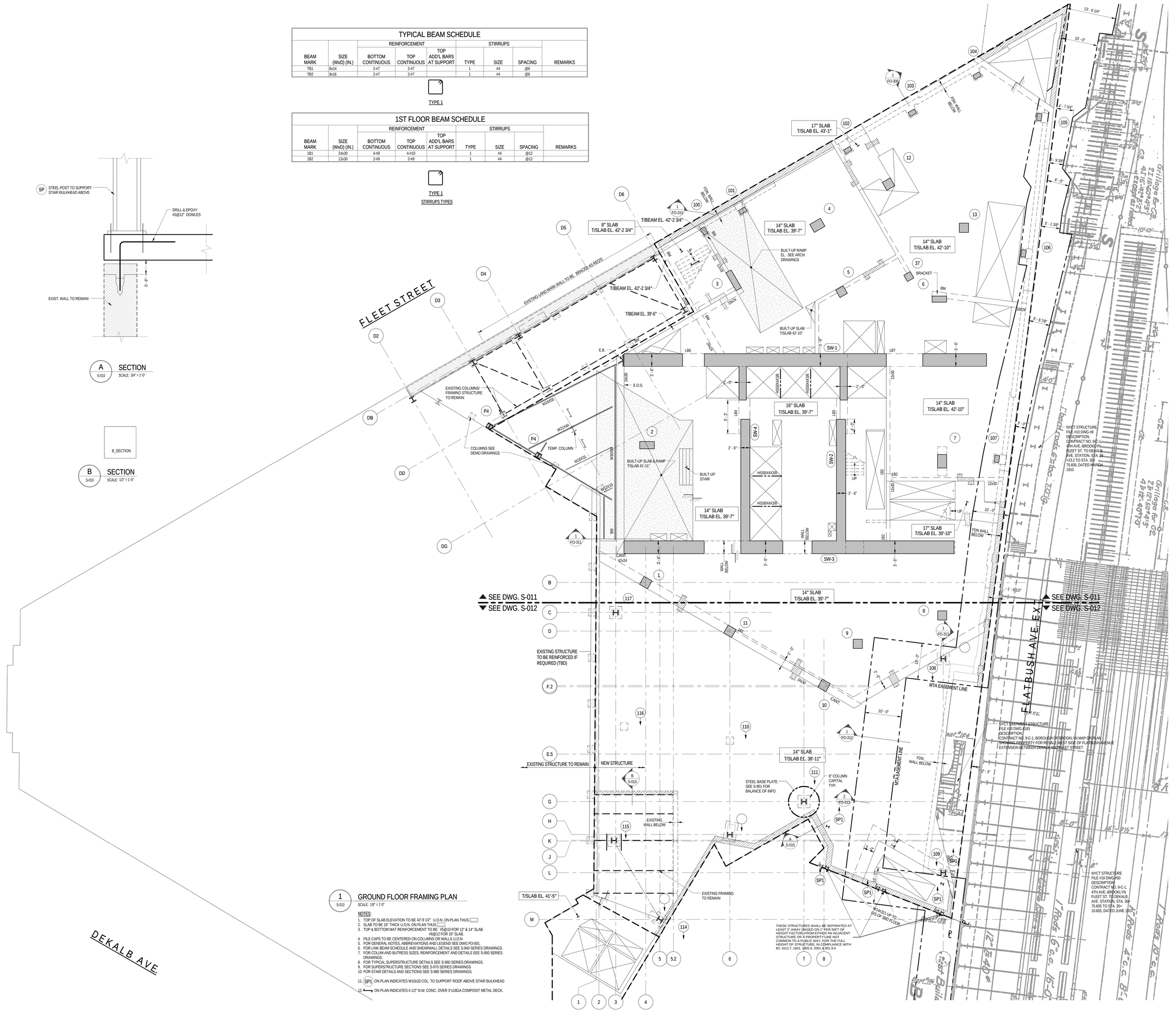
TYPE 1

STIRRUPS TYPES

A S-010 SECTION
SCALE: 3/4" = 1'-0"

B_SECTION

B S-010 SECTION
SCALE: 1/2" = 1'-0"



1 S-010 GROUND FLOOR FRAMING PLAN
SCALE: 1/8" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE 42'-9 1/2" U.O.N. ON PLAN THUS
2. SLAB TO BE 16" THICK U.O.N. ON PLAN THUS
3. TOP & BOTTOM MAT REINFORCEMENT TO BE #5@10 FOR 12" & 14" SLAB. #6@12 FOR 16" SLAB.
4. PILE CAPS TO BE CENTERED ON COLUMNS OR WALLS U.O.N.
5. FOR GENERAL NOTES, ABBREVATIONS AND LEGEND SEE DWG FO-001.
6. FOR LINK BEAM SCHEDULE AND SHEARWALL DETAILS SEE S-940 SERIES DRAWINGS.
7. FOR COLUM AND BUTRESS SIZES, REINFORCEMENT AND DETAILS SEE S-950 SERIES DRAWINGS.
8. FOR TYPICAL SUPERSTRUCTURE DETAILS SEE S-960 SERIES DRAWINGS.
9. FOR SUPERSTRUCTURE SECTIONS SEE S-970 SERIES DRAWINGS
10. FOR STAIR DETAILS AND SECTIONS SEE S-980 SERIES DRAWINGS.
11. SP1 ON PLAN INDICATES W10x33 COL. TO SUPPORT ROOF ABOVE STAIR BULKHEAD
12. ON PLAN INDICATES 4 1/2" N.W. CONC. OVER 3"x18GA COMPOSIT METAL DECK.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
M 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
M 212.889.9005

JBB JAROS BAUM & BOLLES
MEP ENGINEER
JAROS, BAUM & BOLLES
30 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
M 212.530.5000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS
STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 48TH STREET
NEW YORK, NY 10017
M 212.887.9808

Mueser Rutledge Consulting Engineers
GEOTECHNICAL ENGINEER
MRCE
250 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
M 917.339.9300

AKRF
CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
M 646.388.9828

vda
VERTICAL TRANSPORTATION
VAN DELUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
M 646.625.3640

Thornton Tomasetti
FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
M 917.661.7800

GACHOT
INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
M 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES
HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
M 212.759.6540

BOLD
LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
M 212.674.6500

Longman Lindsey
ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
M 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS
BMU ENGINEER
ENTEK ENGINEERING
196 JAMES STREET
HACKENSACK, NJ 07601
M 201.820.2902

SIMPSON GUMPERTZ & HEGER
DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 16TH FLOOR
NEW YORK, NY 10018
M 212.271.7000

VIDARIS
BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
M 212.689.5389

BURO HAPPOLD ENGINEERING
FIRE SAFETY ENGINEER
BURO HAPPOLD
120 BROADWAY
NEW YORK, NY 10005
M 212.334.2025

TRACE POOL DESIGN
POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
M 914.485.4290

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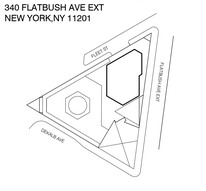
340 FLATBUSH AVE EXT
NEW YORK,NY 11201



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NO.	DATE	REVISION
1	07/15/2016	DOB FILING SET
2	08/08/2016	DOB RFI RESPONSE
		FOUNDATION PERMIT

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DRAWING TITLE

GROUND FLOOR FRAMING PLAN

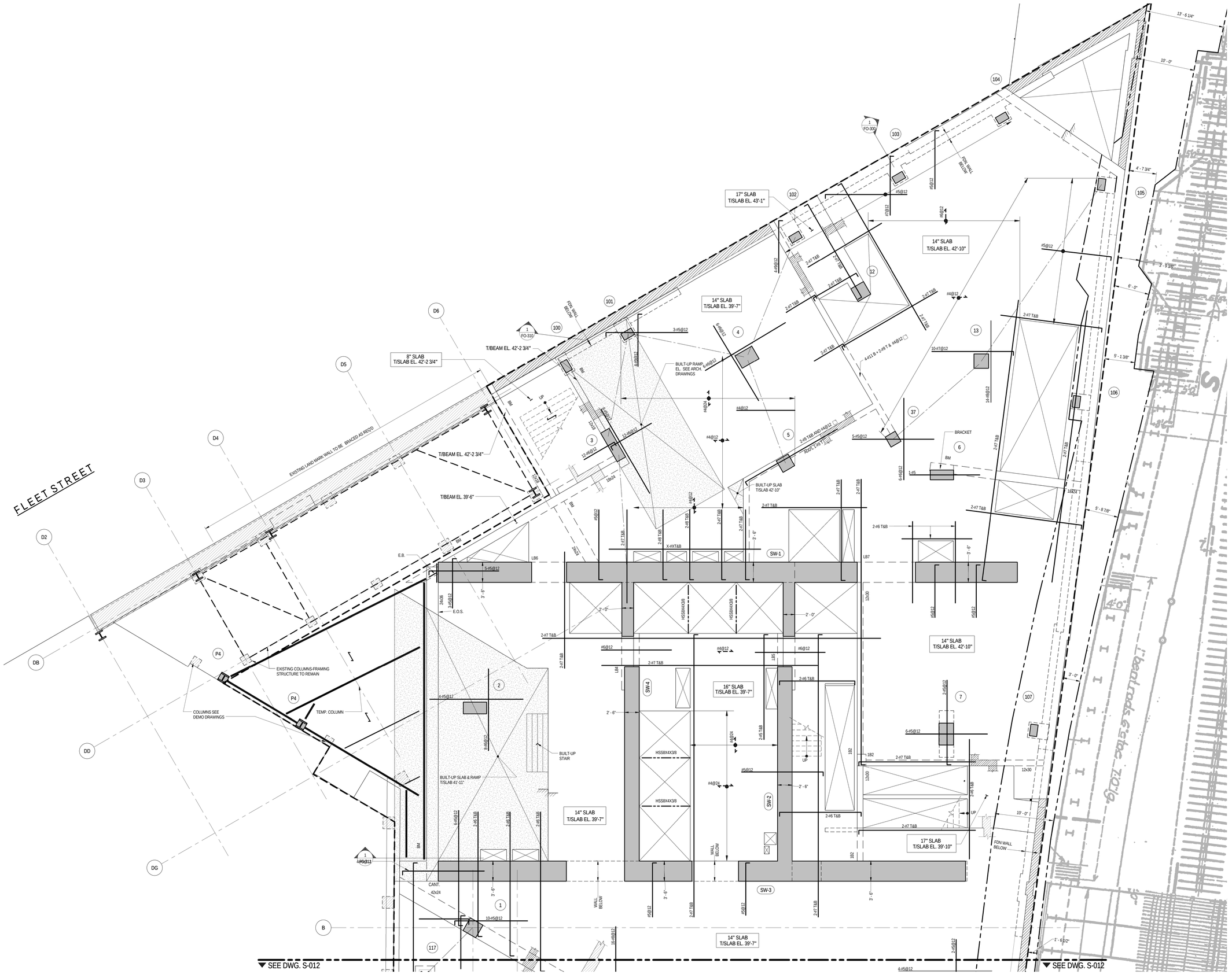
SEAL & SIGNATURE

DATE	02/27/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	SEH
DOB NO.	
DRAWING NUMBER	S-010.00

PLOTTED: 8/8/2016 4:47:29 PM

DEPT OF BLDGS 320014338 Job Number

ESY-M007636 Scan Code



1 S-011 **GROUND FLOOR FRAMING PART - 1**

SCALE: 3/16" = 1'-0"

NOTES:

1. FOR BALANCE OF NOTES SEE S-010

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
M: 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
M: 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
M: 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 48TH STREET
NEW YORK, NY 10017
M: 212.887.9808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
M: 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
M: 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DELUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
M: 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
M: 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY, SUITE 509
NEW YORK, NY 10012
M: 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
M: 212.759.6540

BOLD

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
M: 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
M: 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
168 AMES STREET
HACKENSACK, NJ 07601
M: 201.820.2800

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 15TH FLOOR
NEW YORK, NY 10018
M: 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10016
M: 212.688.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
M: 212.334.2025

LANDTEK TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
300 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
M: 914.495.4090

9 DEKALB AVE

340 FLATBUSH AVE EXT
NEW YORK,NY 11201

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GROUND FLOOR FRAMING PART 1

SEAL & SIGNATURE

STATE OF NEW YORK — SUSAN L. MACRIS — LICENSED PROFESSIONAL ENGINEER

DATE	07/13/16
PROJECT NO.	1490086
DRAWN BY	Author
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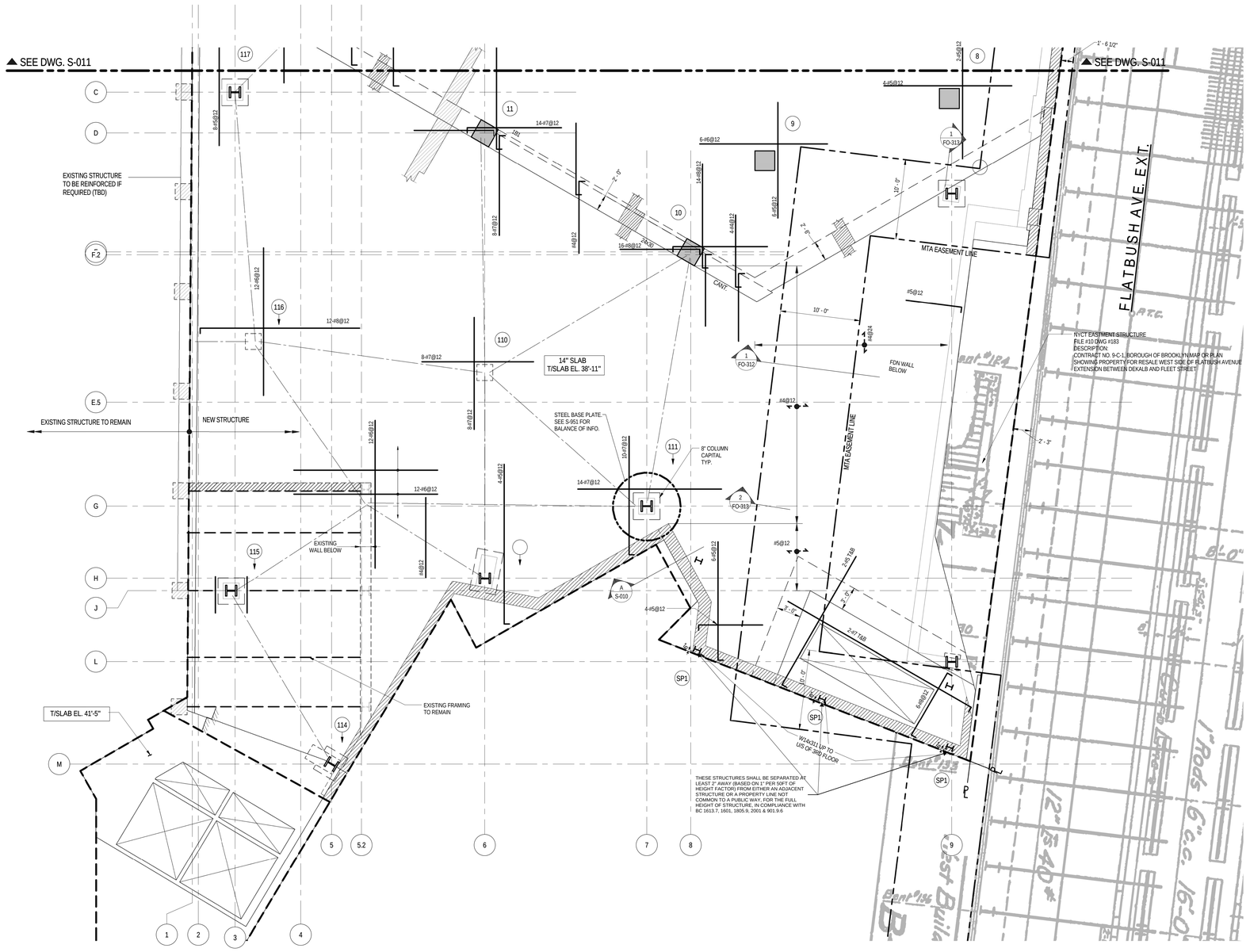
DOB NO.	
DRAWING NUMBER	S-011.00

20160914T122154

DEPT OF BLDGS 320243536 Job Number
E3519668240 Scan Code



1 S-012 GROUND FLOOR FRAMING PART - 2

SCALE: 3/16" = 1'-0"

NOTES:
1. FOR BALANCE OF NOTES SEE S-010

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 11TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.887.9808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
250 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
164 BROADWAY SUITE 309
NEW YORK, NY 10012
tel 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-9340

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LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
168 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 16TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.688.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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330 WESTCHESTER AVENUE
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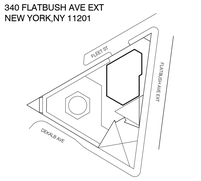

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DRAWING TITLE

GROUND FLOOR FRAMING PART 2

SEAL & SIGNATURE

STATE OF NEW YORK SUSAN L. MACRIS LICENSED PROFESSIONAL ENGINEER

DATE	07/13/16
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-012.00

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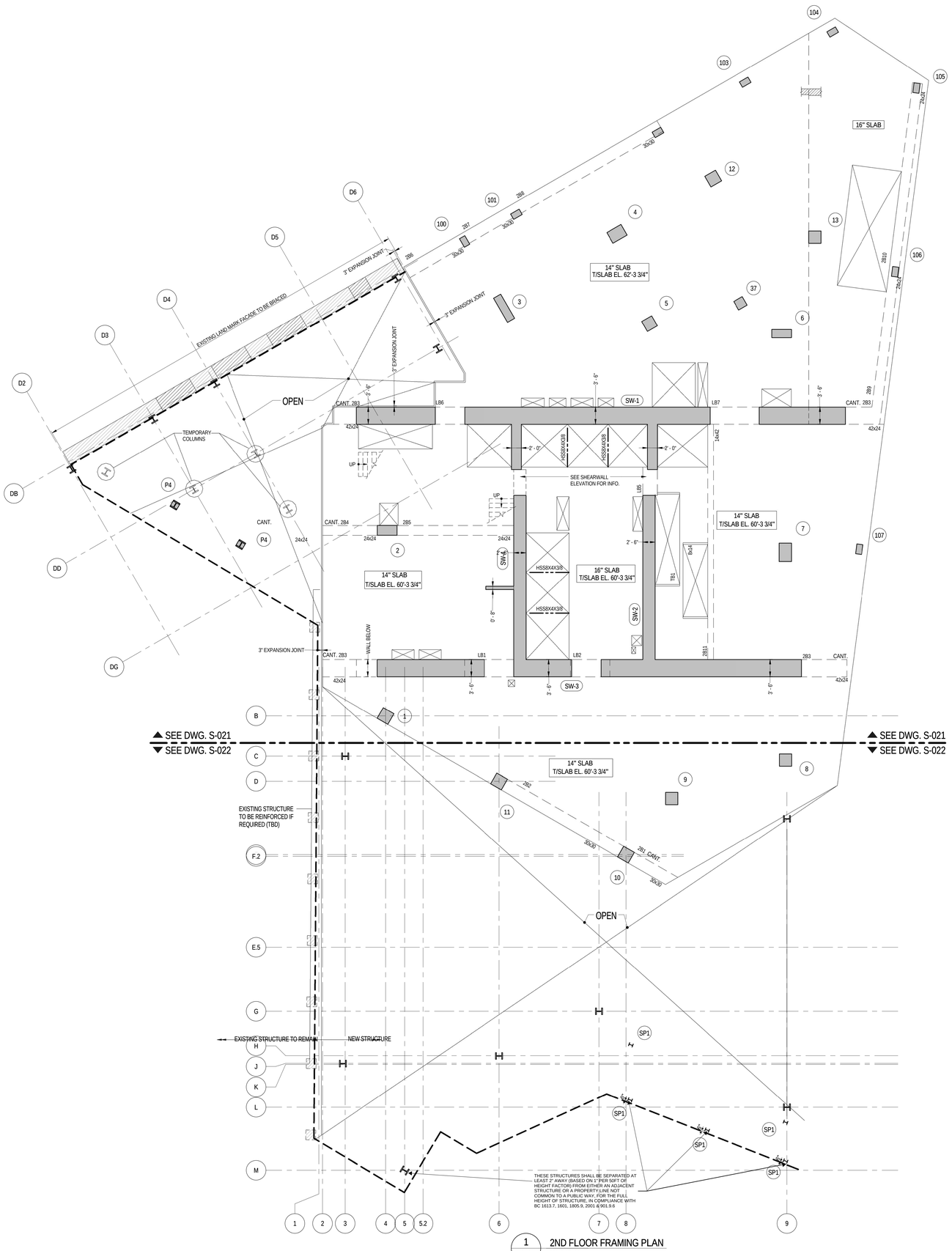
B3708331046 Scan Code



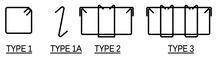
1 S-020 **2ND FLOOR FRAMING PLAN**

SCALE: 1/8" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE 60'-3 3/4" U.O.N. ON PLAN THUS
2. SLAB TO BE 12" THICK U.O.N. ON PLAN THUS
3. BOTTOM MESH REINFORCEMENT TO BE #5@10 E.W. CONT. FOR 12" & 16" SLAB.
4. * INDICATES REBARS FOR WIND FORCE
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

2ND FLOOR BEAM SCHEDULE

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT: BOTTOM CONTINUOUS	REINFORCEMENT: TOP CONTINUOUS	REINFORCEMENT: TOP ADD'L BARS AT SUPPORT	STIRRUPS: TYPE	STIRRUPS: SIZE	STIRRUPS: SPACING	REMARKS
2B1	30x30	4-#9	4-#11		2	#4	@12	CANT.
2B2	30x30	4-#9	4-#11		2	#4	@12	
2B3	42x24	7-#7	7-#9		3	#4	@12	CANT.
2B4	24x24	3-#10	6-#10		1A	#4	@12	CANT.
2B5	24x24	3-#10	6-#10		1A	#4	@12	
2B6	30x30	4-#9	4-#10		2	#4	@12	CANT.
2B7	30x30	4-#9	4-#10		2	#4	@12	
2B8	30x30	4-#9	4-#10		2	#4	@12	
2B9	24x24	3-#11	6-#11		1A	#5	@12	
2B10	24x24	6-#11	6-#11		1A	#5	@12	
2B11	14x42	4-#10	4-#10		1	#5	@12	



STIRRUP TYPES

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 13TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.887.8808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS SINCE 1974

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212 759 6140

BOLD

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2922

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
590 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

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NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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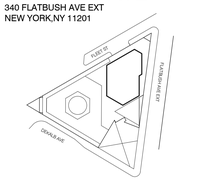

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2ND FLOOR FRAMING PLAN

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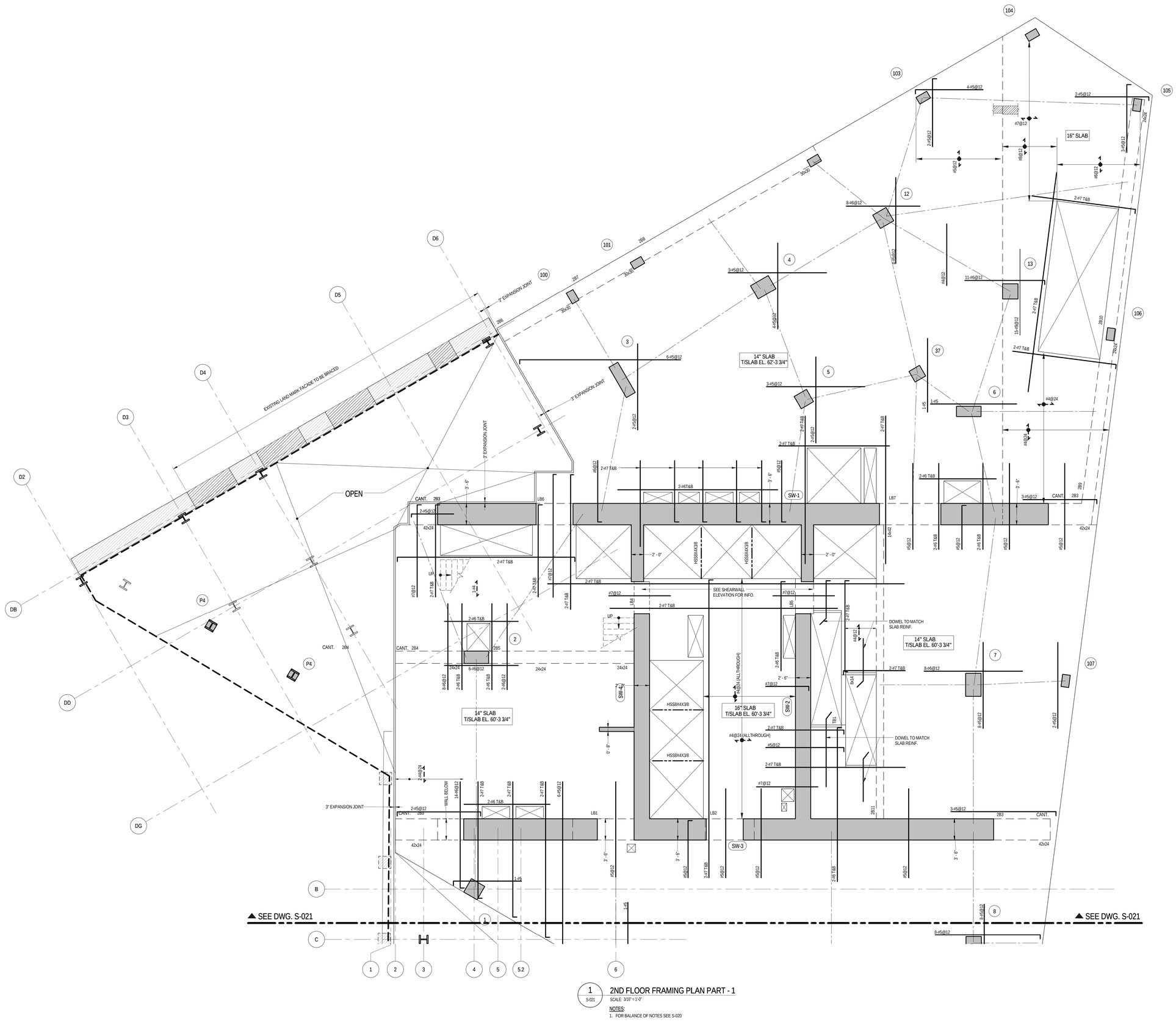

1 / S-021 2ND FLOOR FRAMING PLAN PART - 1

SCALE: 3/16" = 1'-0"

NOTES:

1. FOR BALANCE OF NOTES SEE S-020

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.5000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.887.8808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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AKRF
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NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.759.6140

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NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINEERING
196 JAMES STREET
HACKENSACK, NJ 07601
tel 201.820.2922

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 15TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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POOL
TRACE POOL DESIGN
330 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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340 FLATBUSH AVE EXT
NEW YORK,NY 11201

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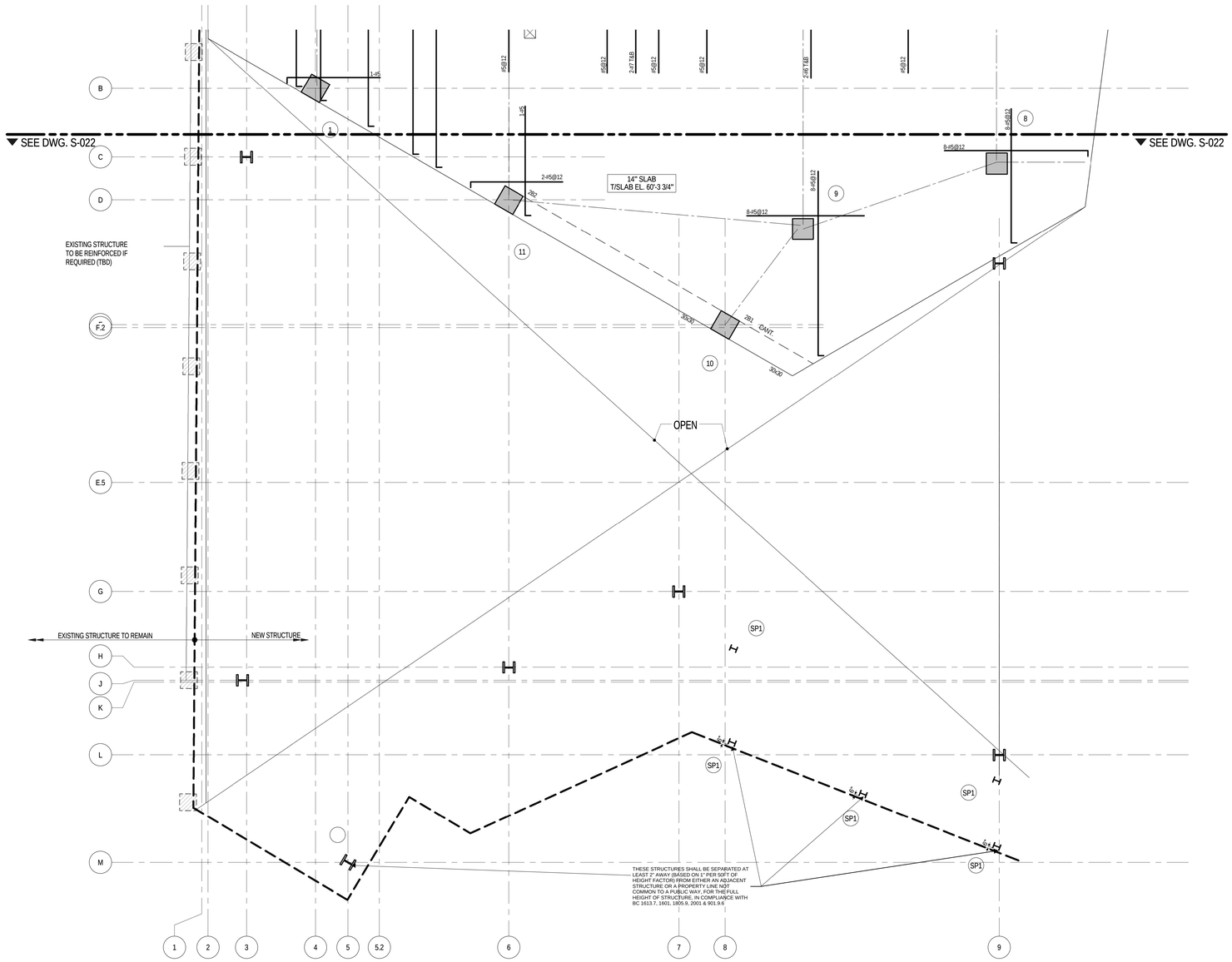

1 S-022 **2ND FLOOR FRAMING PLAN PART - 2**

SCALE: 3/16" = 1'-0"

NOTES:

1. FOR BALANCE OF NOTES SEE S-020

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 13TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 48TH STREET
NEW YORK, NY 10017
tel 212.887.8808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.759-8140

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NEW YORK, NY 10001
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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINEERING
106 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
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VIDARIS
260 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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NEW YORK, NY 10005
tel 212.334.2025

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TRACE POOL DESIGN
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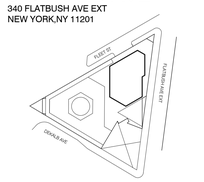

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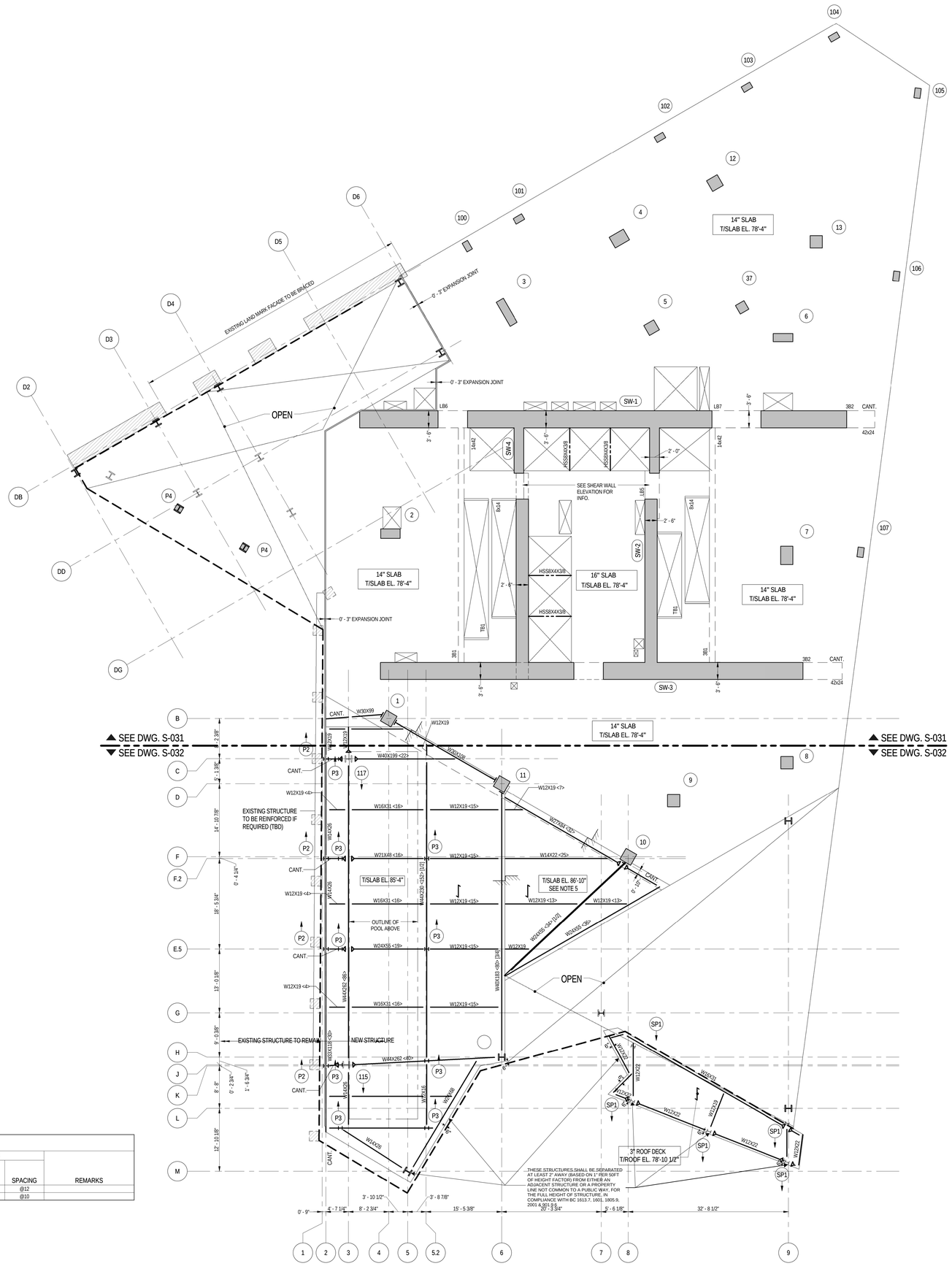

3RD FLOOR BEAM SCHEDULE

BEAM MARK	SIZE (W,D) (IN.)	REINFORCEMENT			STIRRUPS			REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS	TOP ADD'L BARS AT SUPPORT	TYPE	SIZE	SPACING	
3B1	14x42	3-#9	3-#7		1	#4	@12	
3B2	42x24	6-#5	6-#8		1	#4	@10	

TYPE 1

STIRRUP TYPE

1 S-030 **3RD FLOOR FRAMING PLAN**

SCALE: 1/8" = 1'-0"

NOTES:

1. TOP OF SLAB ELEVATION TO BE 78'-4" U.O.N. ON PLAN THUS ____
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS ____
3. TOP & BOTTOM MESH REINFORCEMENT TO BE: #4@10 E.W. CONT. FOR 10" SLAB. #5@12 E.W. CONT. FOR 14" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. SLAB CONSTRUCTION IN THE AREA NOTED ON PLAN TO BE 2½" L.W. CONCRETE (Fc = 4000 PSI @ 28 DAYS) OVER 2" THICK GA 16 50 KSI GALVANIZED COMPOSITE METAL DECK REINFORCED W4x4 - W2.5xW2.5 W.W.F (TOTAL SLAB THICKNESS = 4¼").
6. TOP OF STEEL TO BE 4½" BELOW TOP OF SLAB U.O.N. THUS (+/- ...) INDICATING TOP OF STEEL ELEVATION RELATIVE TO TOP OF SLAB.
7. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.887.8808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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AKRF
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NEW YORK, NY 10016
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120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7800

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GACHOT
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tel 212.315.6400

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ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7000

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VIDARIS
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NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.3325

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TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.485.4280

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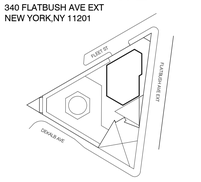

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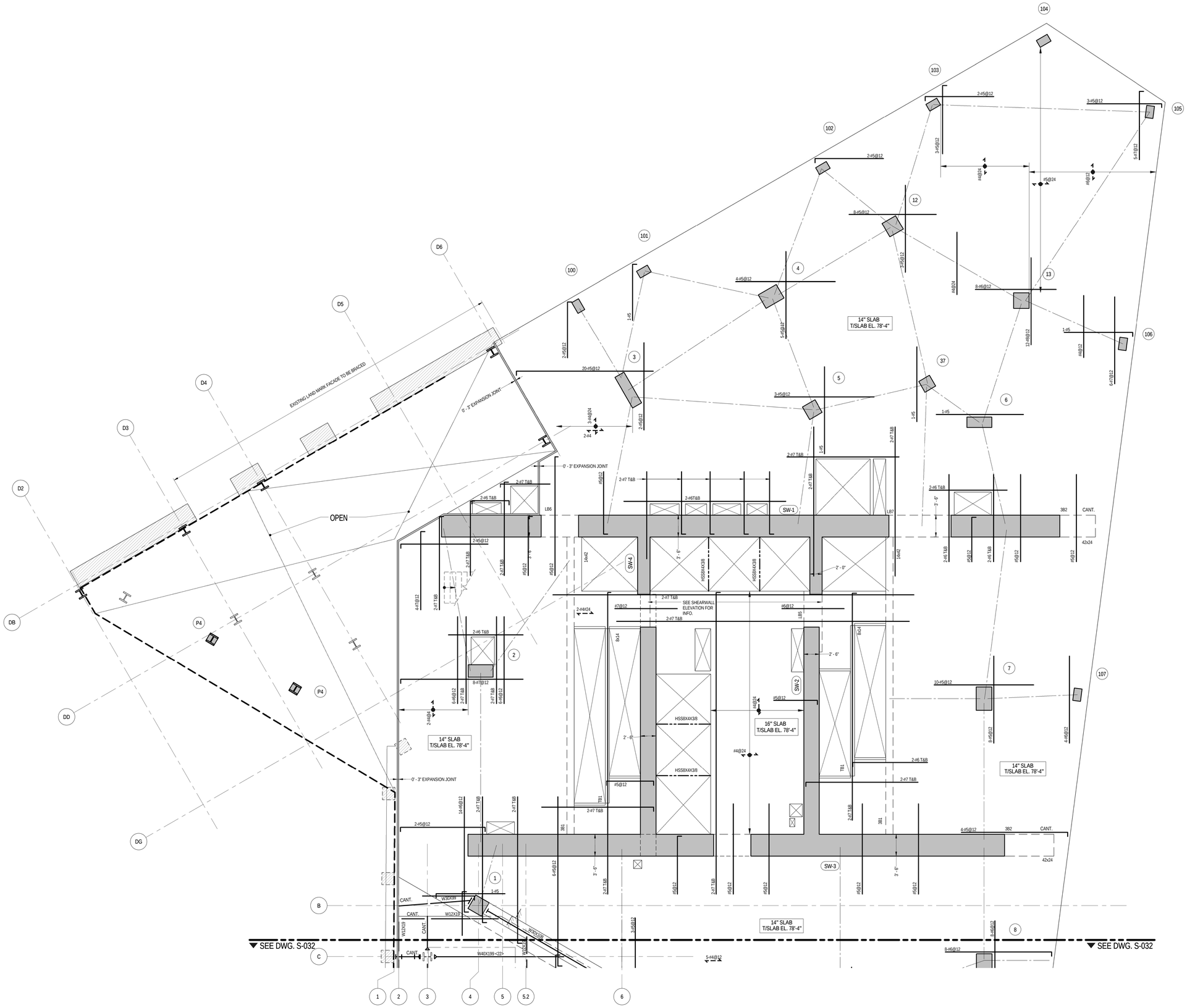

1 S-031 3RD FLOOR FRAMING PLAN PART - 1

SCALE: 3/16" = 1'-0"

NOTES:
1. FOR BALANCE OF NOTES SEE S-030

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 11TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 48TH STREET
NEW YORK, NY 10017
tel 212.887.8808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

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JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.759.6140

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NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 16TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10016
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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POOL
TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.495.4290

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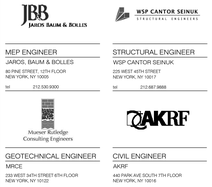

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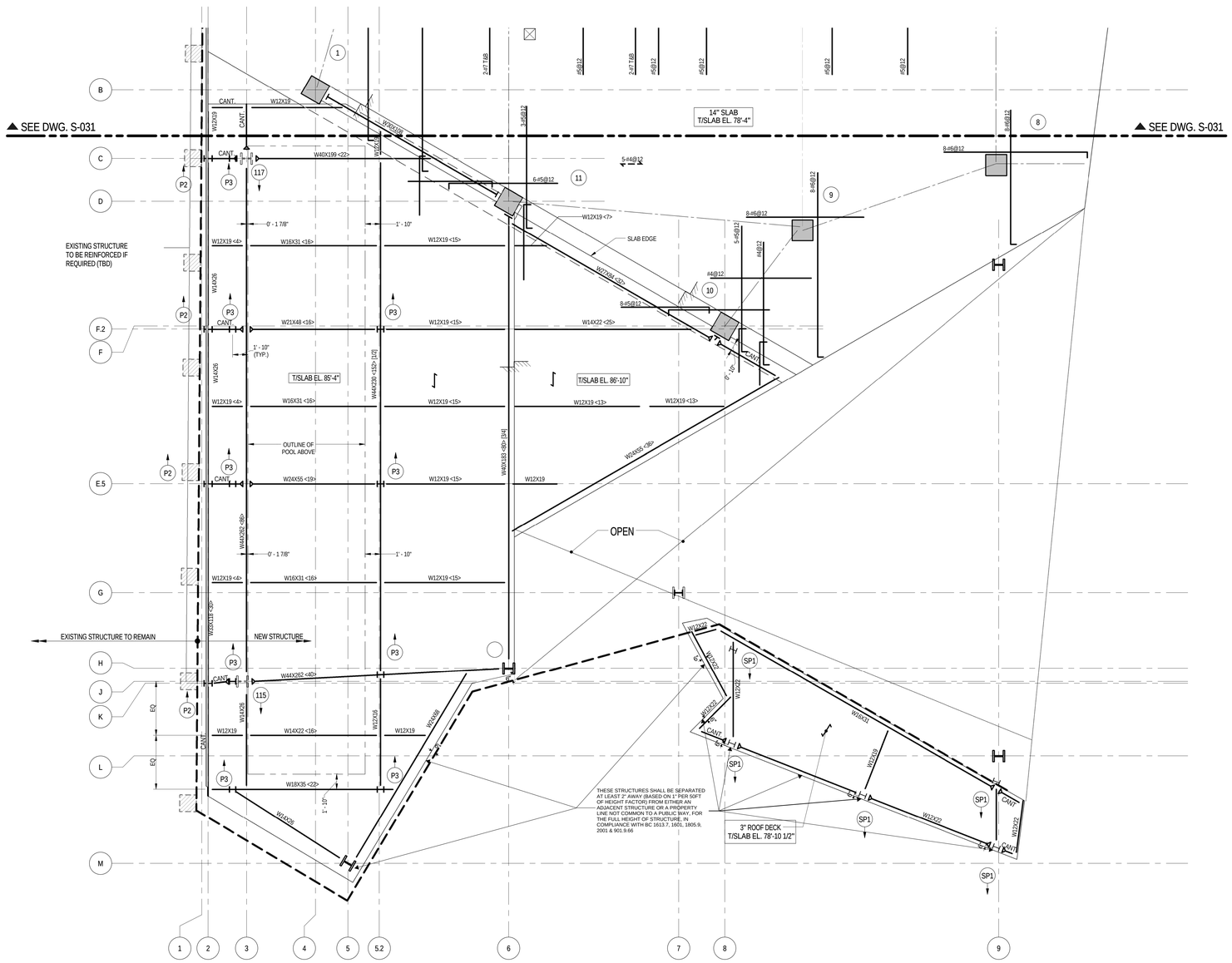

1 S-032 **3RD FLOOR FRAMING PLAN PART - 2**

SCALE: 3/16" = 1'-0"

NOTES:
1. FOR BALANCE OF NOTES SEE S-030

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS, BAUM & BOLLES
MEP ENGINEER
60 PINE STREET, 13TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK
STRUCTURAL ENGINEER
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.887.9808

Mueser Rutledge Consulting Engineers
GEOTECHNICAL ENGINEER
MRCE
250 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti
FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT
INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

JHPA
HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.759.6540

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NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
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HACKENSACK, NJ 07601
tel 201.820.2982

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 15TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5369

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
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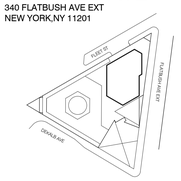

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NO	DATE	REVISION

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DRAWING TITLE

3RD FLOOR FRAMING PLAN PART 2

SEAL & SIGNATURE

DATE	07/14/16
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-032.00

PLOT DATE: 7/14/2016 3:49:53 PM

DEPT OF BLDGS 320014336 Job Number

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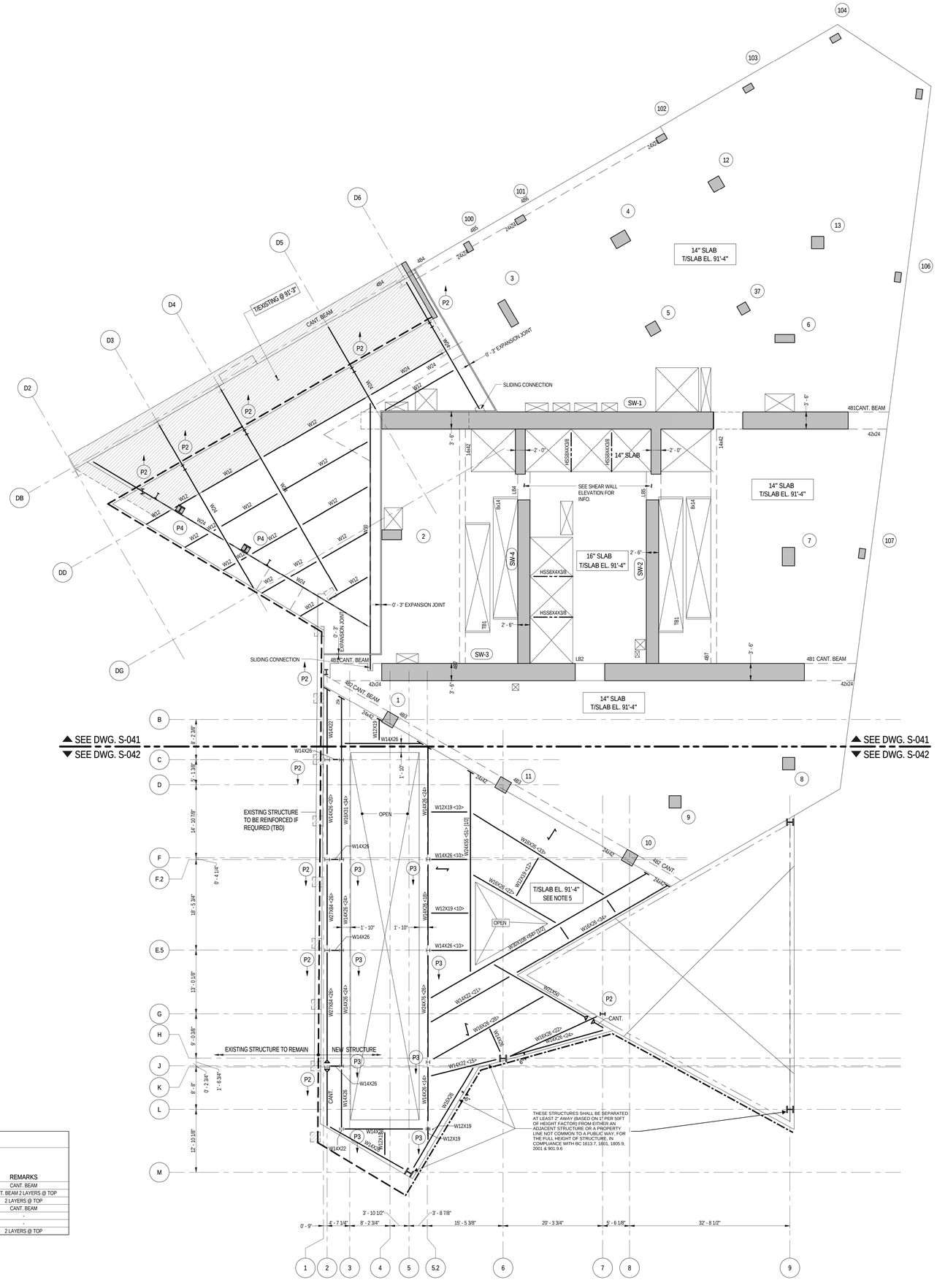


1 S-040 **4TH FLOOR FRAMING PLAN**

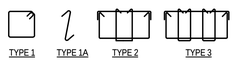
SCALE: 1/8" = 1'-0"

NOTES:

1. TOP OF SLAB ELEVATION TO BE 91'-4" U.O.N. ON PLAN THUS
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS
3. TOP & BOTTOM MESH REINFORCEMENT TO BE: #4@10 E.W. CONT. FOR 10" SLAB. #5@12 E.W. CONT. FOR 14" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. SLAB CONSTRUCTION IN THE AREA NOTED ON PLAN TO BE 2½" L.W. CONCRETE (F'c = 4000 PSI @ 28 DAYS) OVER 2" THICK GA 16 50 KSI GALVANIZED COMPOSITE METAL DECK REINFORCED W4x4 - W2.5xW2.5 W.W.F (TOTAL SLAB THICKNESS = 4½").
6. TOP OF STEEL TO BE 4½" BELOW TOP OF SLAB U.O.N. THUS (+/- ....) INDICATING TOP OF STEEL ELEVATION RELATIVE TO TOP OF SLAB.
7. FOR BALANCE OF NOTES SEE DWG. S-010.

4TH FLOOR BEAM SCHEDULE

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT			STIRRUPS			REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS	TOP ADD'L BARS AT SUPPORT	TYPE	SIZE	SPACING	
4B1	42x24	7-#7	7-#9	-	3	#4	@12	CANT. BEAM
4B2	24x42	3-#10	6-#10	-	1A	#4	@12	CANT. BEAM 2 LAYERS @ TOP
4B3	24x42	3-#10	6-#10	-	1A	#4	@12	2 LAYERS @ TOP
4B4	24x24	4-#7	4-#9	-	2	#4	@12	CANT. BEAM
4B5	24x24	4-#7	4-#9	-	2	#4	@12	-
4B6	24x24	4-#7	4-#9	-	2	#4	@12	-
4B7	14x42	2-#11	4-#10	-	1	#5	@12	2 LAYERS @ TOP



STIRRUP TYPES

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.887.8808

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

VERTICAL TRANSPORTATION
VAN DELUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

HISTORIC PRESERVATION
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39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
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LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

BMU ENGINEER
ENTEK ENGINNERING
186 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2502

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7000

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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5369

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2026

POOL
TRACE POOL DESIGN
330 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4090

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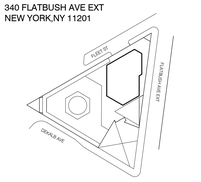
NEW YORK,NY 11201



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1	06/08/2016	ISSUED FOR FOUNDATION PERMIT

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DRAWING TITLE

4TH FLOOR FRAMING PLAN

SEAL & SIGNATURE

DATE	02/27/15
PROJECT NO.	1490086
DRAWN BY	Author
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DOB NO.	
DRAWING NUMBER	S-040.00

PLOT DATE: 7/14/2016 2:51:39 PM

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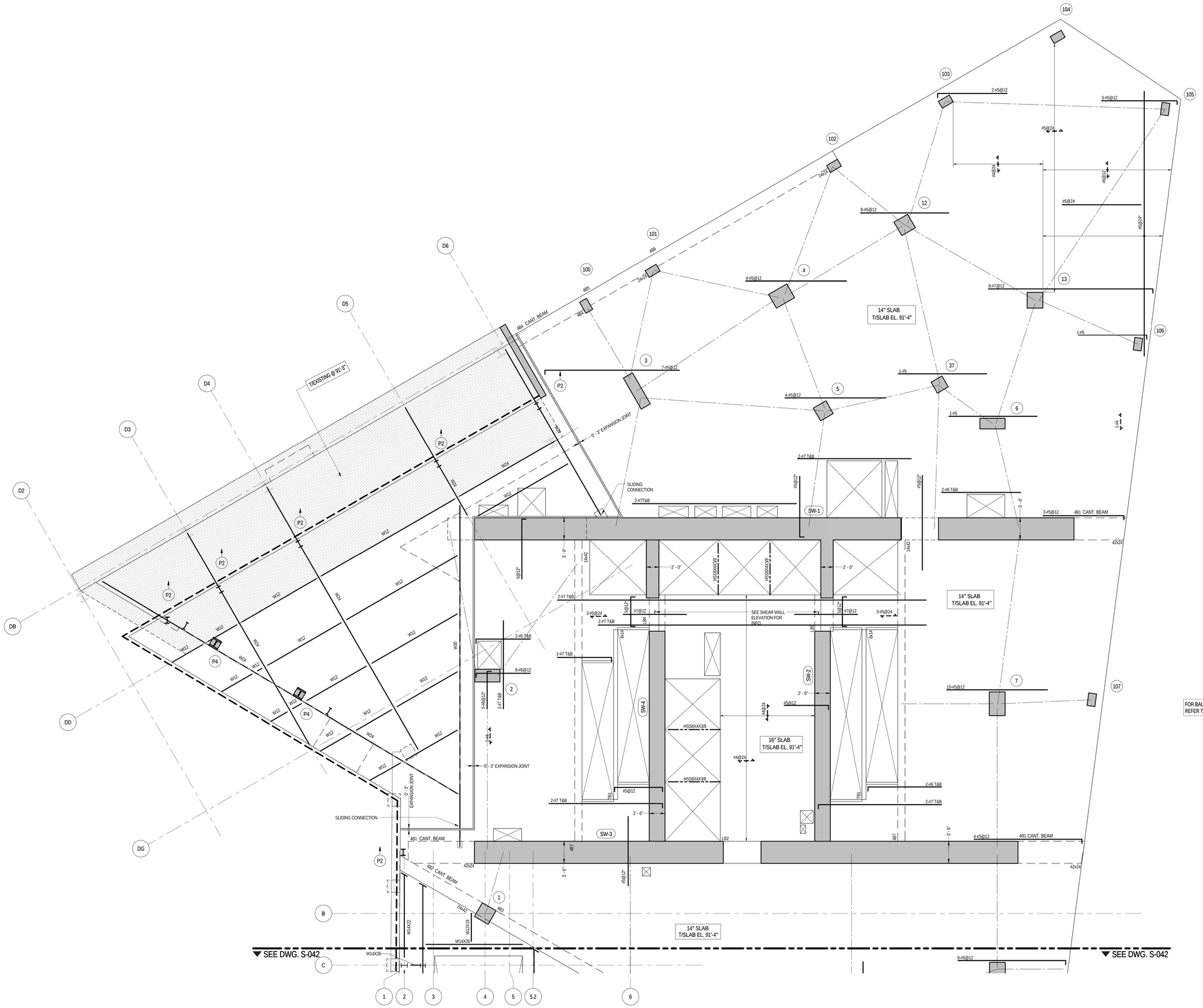

1 S-041 **4TH FLOOR FRAMING PLAN PART - 1**

SCALE: 3/16" = 1'-0"

NOTES:

1. FOR BALANCE OF NOTES SEE S-040

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 13TH FLOOR
NEW YORK, NY 10005
tel 212.530.6000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 48TH STREET
NEW YORK, NY 10017
tel 212.887.8808

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GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.759.6540

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BOLD
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NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
196 JAMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.688.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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POOL
TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.495.4290

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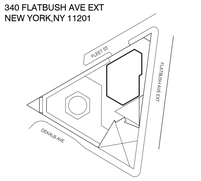

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4TH FLOOR FRAMING PLAN PART 1

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STATE OF NEW YORK — SUSAN L. MACRAE — LICENSED ARCHITECT — 031731 — 07/15/16

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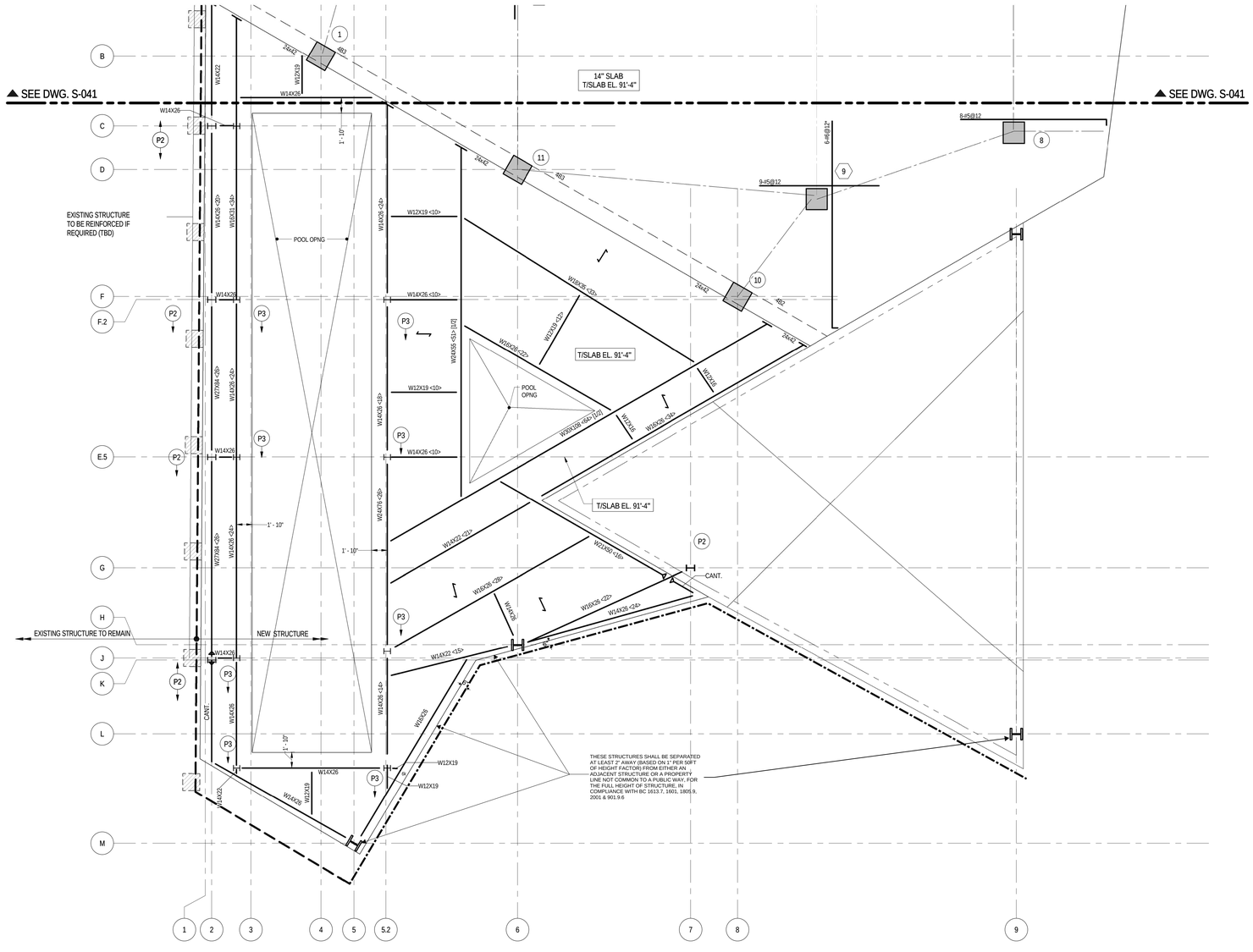

1 S-042 4TH FLOOR FRAMING PLAN PART - 2

SCALE: 3/16" = 1'-0"

NOTES:

1. FOR BALANCE OF NOTES SEE S-040

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JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 13TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

VERTICAL TRANSPORTATION
VAN DELUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

HISTORIC PRESERVATION
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NEW YORK, NY 10018
tel 212.759.6540

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2900

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7000

BUILDING ENERGY
VIDARIS
350 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.688.5389

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.204.2025

POOL
TRACE POOL DESIGN
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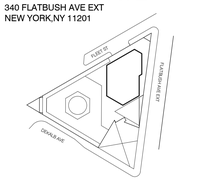

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4TH FLOOR FRAMING PLAN PART 2

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DRAWN BY	Author
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DOB'S NO.	
DRAWING NUMBER	S-042.00

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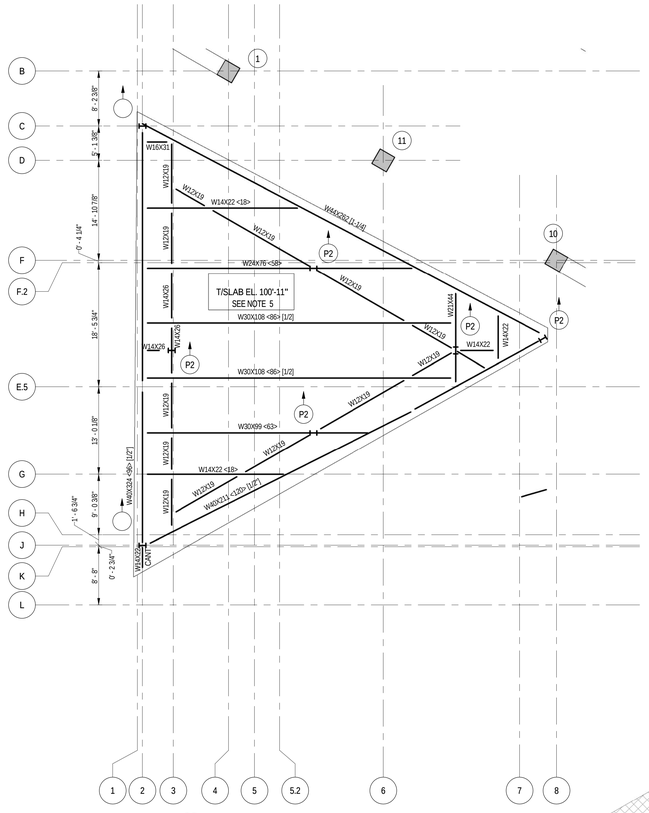
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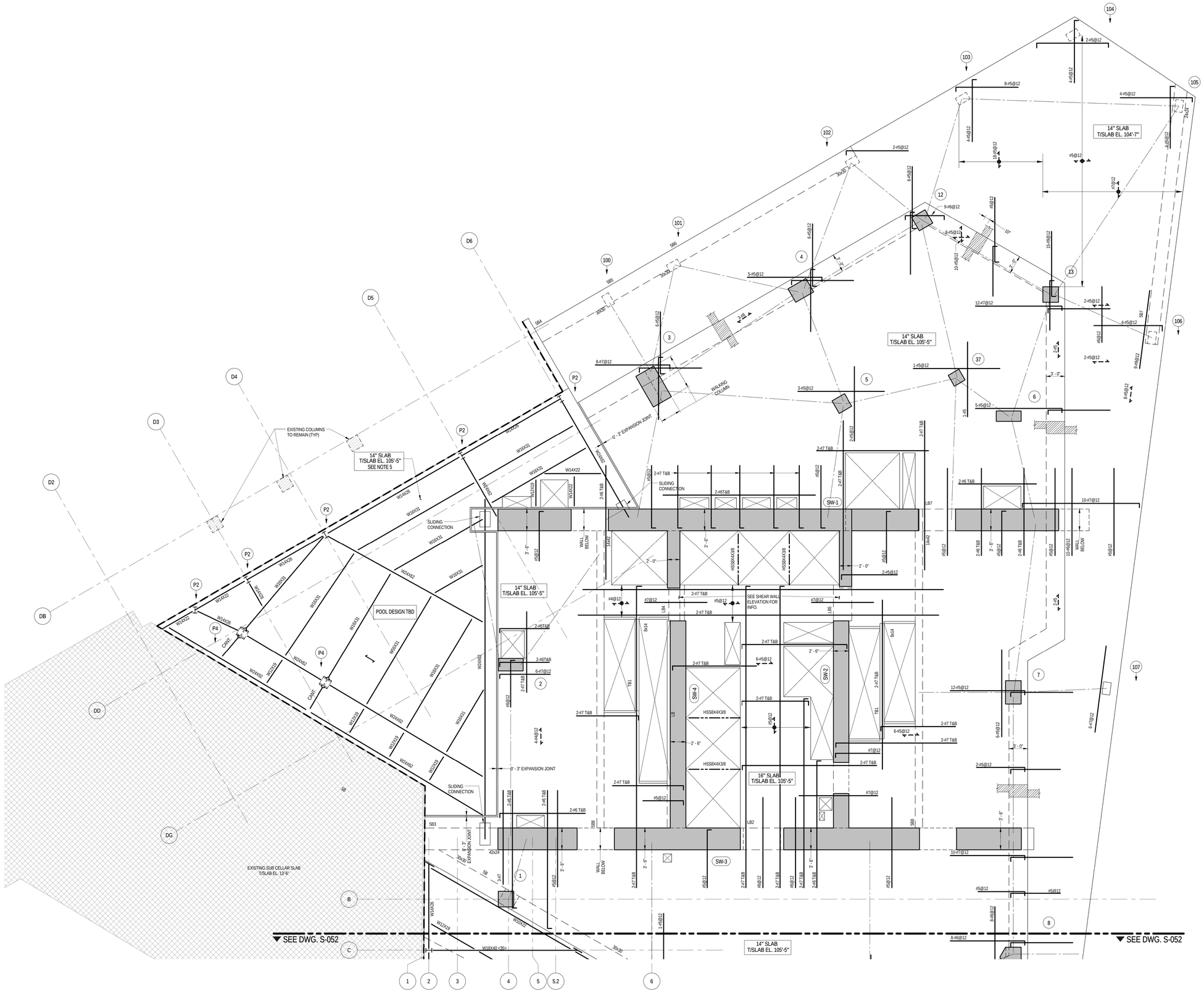

1 S-051 **5TH FLOOR FRAMING PLAN PART - 1**

SCALE: 3/16" = 1'-0"

NOTES:

1. FOR BALANCE OF NOTES SEE S-050

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 13TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
NEW YORK, NY 10017
tel 212.867.8888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

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JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.759.6140

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NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINEERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.0800

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 16TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
350 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.688.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lotterio TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
300 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4090

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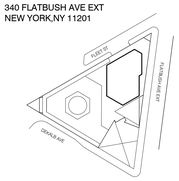
NEW YORK,NY 11201



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5TH FLOOR FRAMING PLAN PART 1

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STATE OF NEW YORK SUSAN L. MARCUS LICENSED PROFESSIONAL ENGINEER

DATE	07/14/16
PROJECT NO.	1490086
DRAWN BY	Author
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DOB NO.	

DRAWING NUMBER

S-051.00

PW-PRT-2160816

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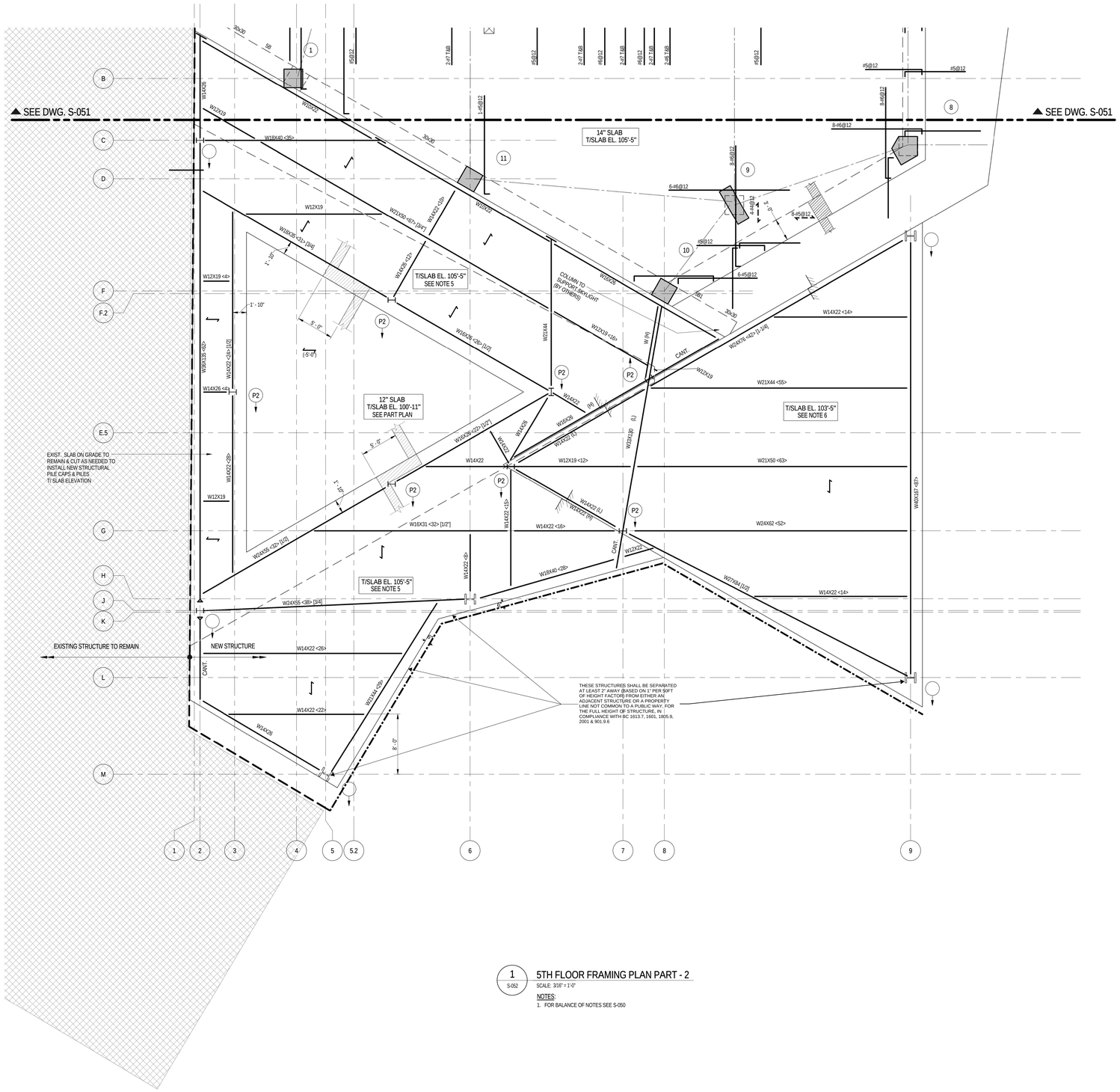

1 S-052 **5TH FLOOR FRAMING PLAN PART - 2**

SCALE: 3/16" = 1'-0"

NOTES:

1. FOR BALANCE OF NOTES SEE S-050

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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NEW YORK, NY 10005
tel 212.334.3925

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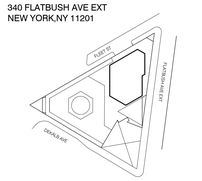

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5TH FLOOR FRAMING PLAN PART 2

SEAL & SIGNATURE

DATE	07/14/16
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-052.00

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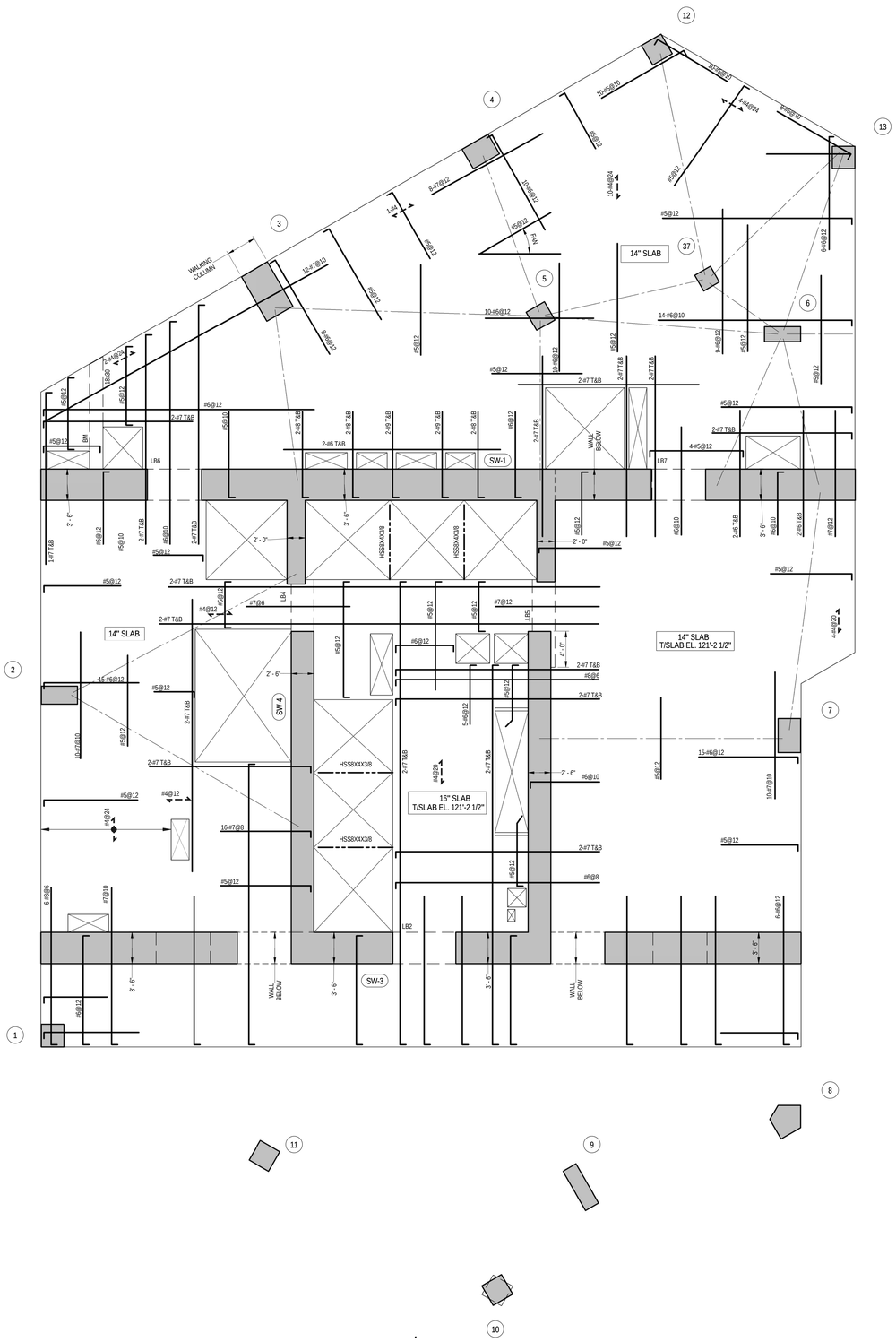

1 S-060

6TH FLOOR FRAMING PLAN

SCALE: 3/16" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE121'-2 1/2" U.O.N. ON PLAN THUS
2. SLAB TO BE 12" THICK U.O.N. ON PLAN THUS
3. BOTTOM MESH REINFORCEMENT TO BE:#5@10 E.W. CONT. FOR 12" & 16" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK,NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 11TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

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GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6140

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BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2922

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
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NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.0325

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.495.4780

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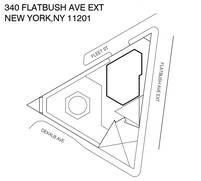

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6TH FLOOR FRAMING PLAN

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STATE OF NEW YORK — SUSAN L. MARCUS — LICENSED PROFESSIONAL ENGINEER — 092135

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PROJECT NO.	14900365
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-060.00

14-04-24-0-NEW

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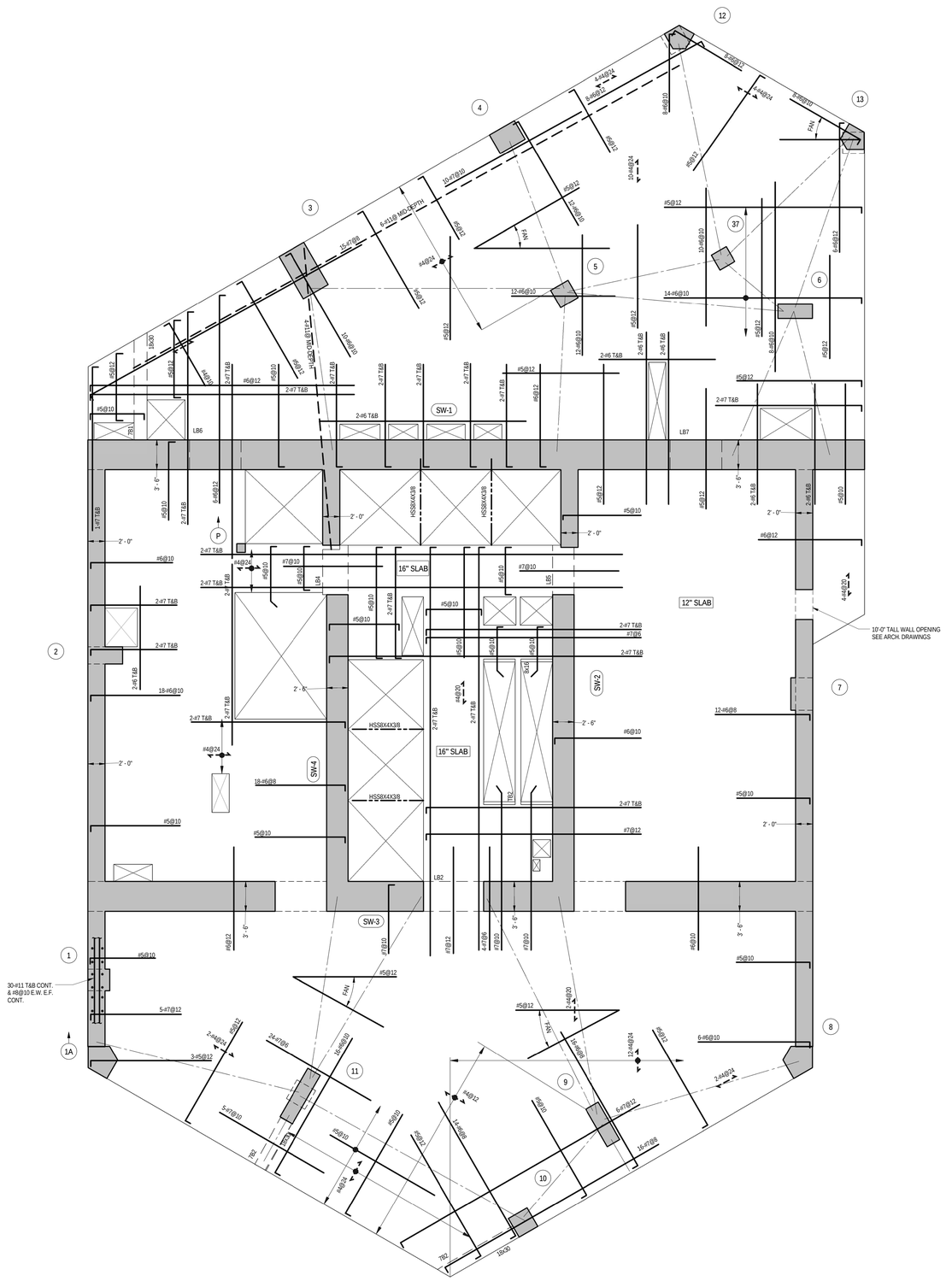
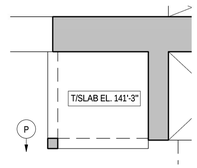


1 S-070 **7TH FLOOR FRAMING PLAN**
SCALE: 3/16" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE 137'-5" U.O.N. ON PLAN THUS [ ]
2. SLAB TO BE 12" THICK U.O.N. ON PLAN THUS [ ]
3. BOTTOM MESH REINFORCEMENT TO BE:#5@10 E.W. CONT. FOR 12" & 16" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.



2 S-070 **7TH FLOOR FRAMING PART PLAN**
SCALE: 3/16" = 1'-0"

7TH FLOOR BEAM SCHEDULE

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT			STIRRUPS			REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS	TOP ADD'L BARS AT SUPPORT	TYPE	SIZE	SPACING	
7B1	18x30	5-#6	8-#9		2	#4	@8	CANT. (2 LAYERS)
7B2	18x30	5-#6	6-#9		1A	#5	@10	CANT. (2 LAYERS)

1 TYPE 1A — TYPE 2
STIRRUP TYPES

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES
MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.887.8808

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GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7800

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GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

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JAN HIRD POKORNY ASSOCIATES
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tel 212.315.6400

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HACKENSACK, NJ 07601
tel 201.820.2922

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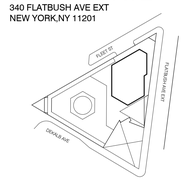

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7TH FLOOR FRAMING PLAN

SEAL & SIGNATURE

STATE OF NEW YORK JULIAN L. MARCUS 057135 LICENSED PROFESSIONAL ENGINEER

DATE	02/25/15
PROJECT NO.	14900686
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-070.00

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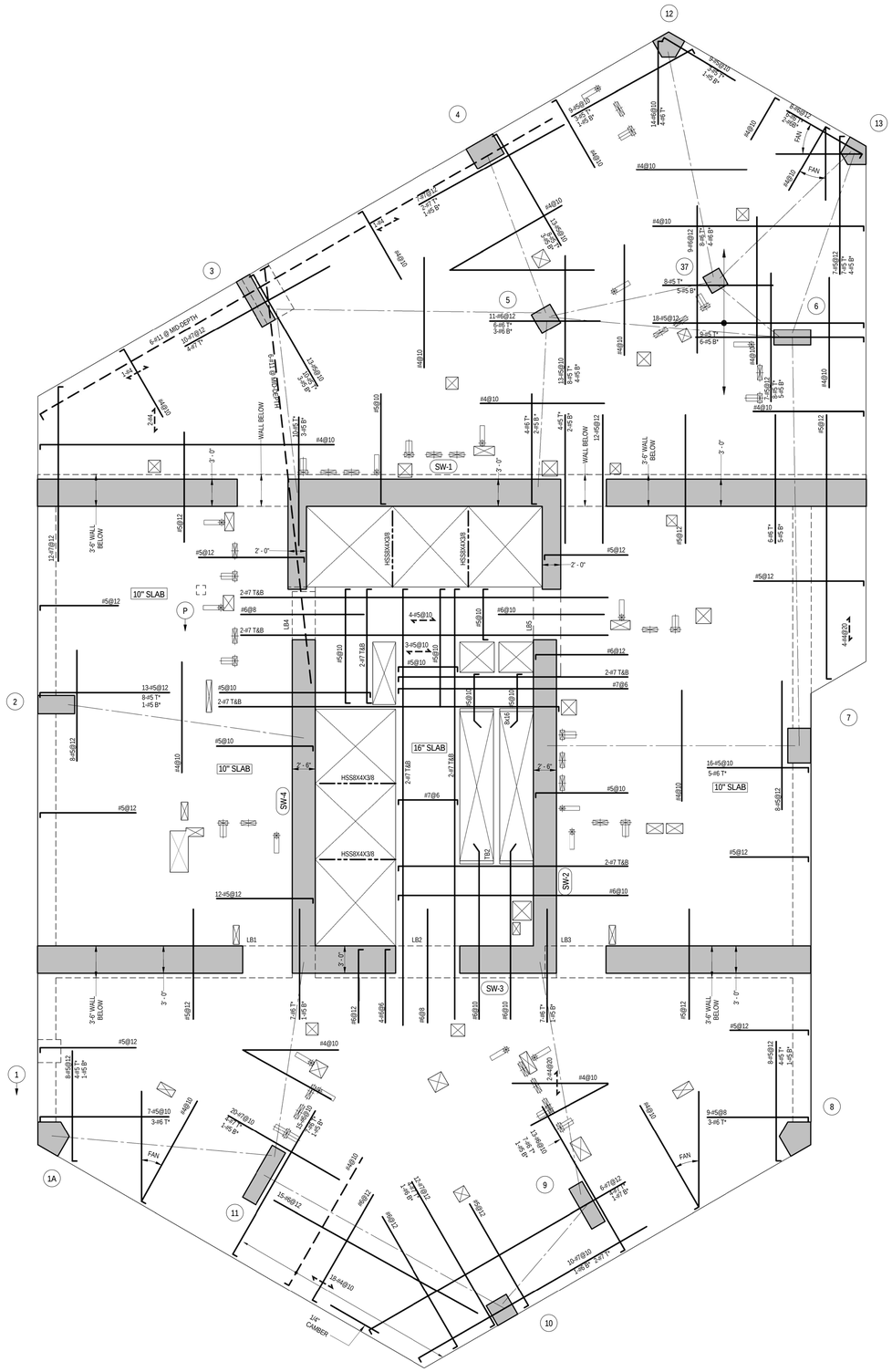

1 8TH FLOOR FRAMING PLAN

S-080

SCALE: 3/16" = 1'-0"

NOTES:

1. TOP OF SLAB ELEVATION TO BE 161'-2 1/2" U.O.N. ON PLAN THUS
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 E.W. CONT. FOR 10" SLAB. #5@10 E.W. CONT. FOR 16" SLAB.
4. * INDICATES REBARS FOR WIND FORCES
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK NY 10279
tel 212.889.9005

JAROS, BAUM & BOLLES
MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 11TH FLOOR
NEW YORK, NY 10005
tel 212.590.9000

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.887.8808

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GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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FACADE ENGINEER
THORNTON TOMASETTI
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NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
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NEW YORK, NY 10012
tel 646.666.0848

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HISTORIC PRESERVATION
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tel 212.674.6500

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LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
196 JAMES STREET
HACKENSACK, NJ 07601
tel 201.820.2922

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
590 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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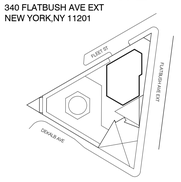

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8TH FLOOR FRAMING PLAN

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STATE OF NEW YORK — BRIAN L. MARCH — LICENSED PROFESSIONAL ENGINEER — 05/13/15

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PROJECT NO.	1490066
DRAWN BY	Author
CHECKED BY	Checker
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DRAWING NUMBER	S-080.00

M-NY-NJ-CT-1005016

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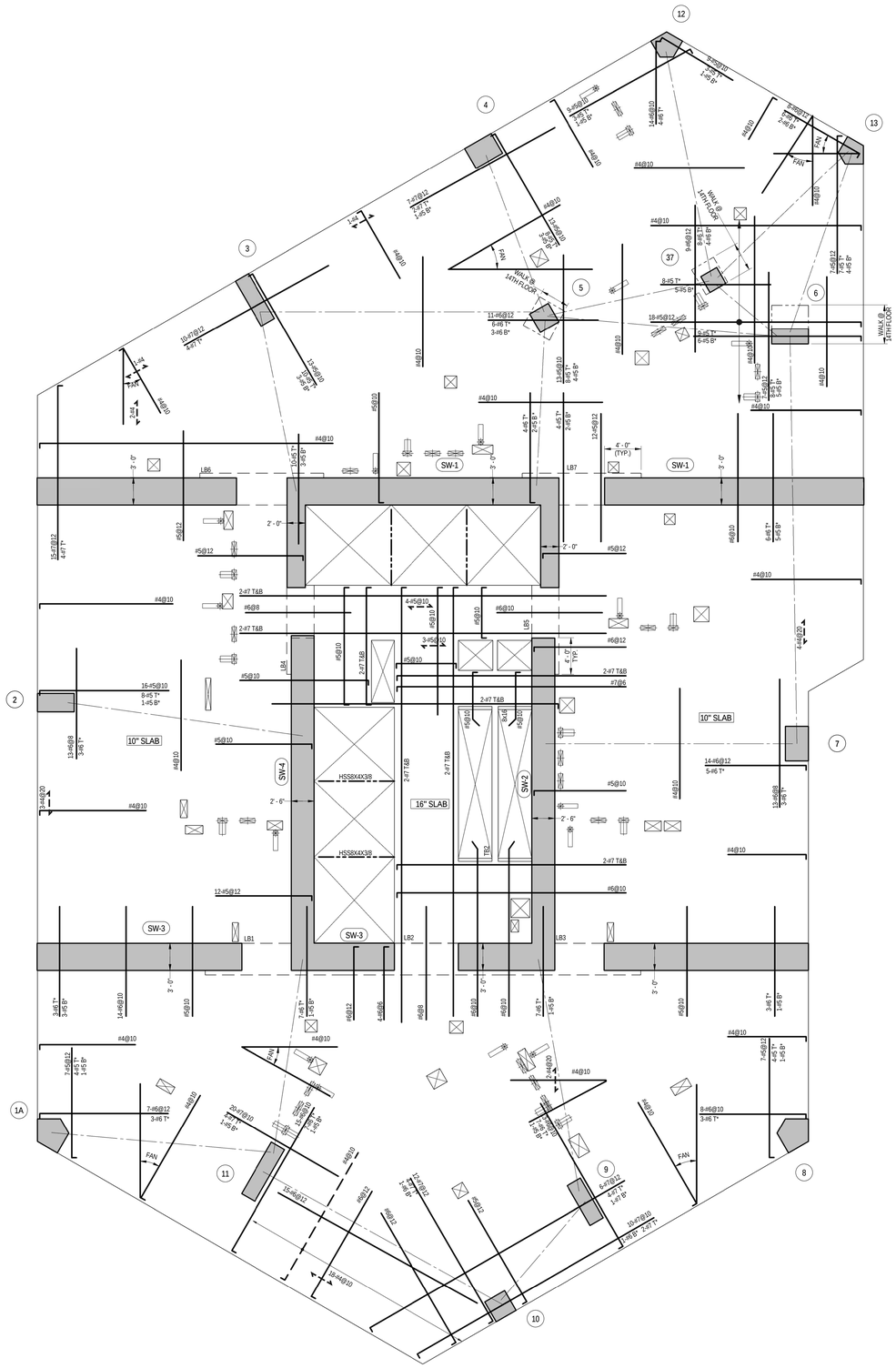

1 S-090 **9TH-14TH FLOOR FRAMING PLAN**

SCALE: 3/16" = 1'-0"

NOTES:

1. TOP OF SLAB ELEVATION TO BE

9TH FLOOR	173'-2 1/2"
10TH FLOOR	185'-2 1/2"
11TH FLOOR	197'-2 1/2"
12TH FLOOR	209'-2 1/2"
13TH FLOOR	221'-2 1/2"
14TH FLOOR	233'-2 1/2"

U.O.N. ON PLAN THUS [ ]

2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS [ ]
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 E.W. CONT. FOR 10" SLAB. #5@10 E.W. CONT. FOR 16" SLAB.
4. * INDICATES REBARS FOR WIND FORCES
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 11TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

VERTICAL TRANSPORTATION
VAN DELUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

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JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2922

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
590 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4090

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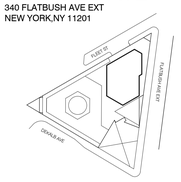

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9TH-14TH FLOOR FRAMING PLAN

SEAL & SIGNATURE

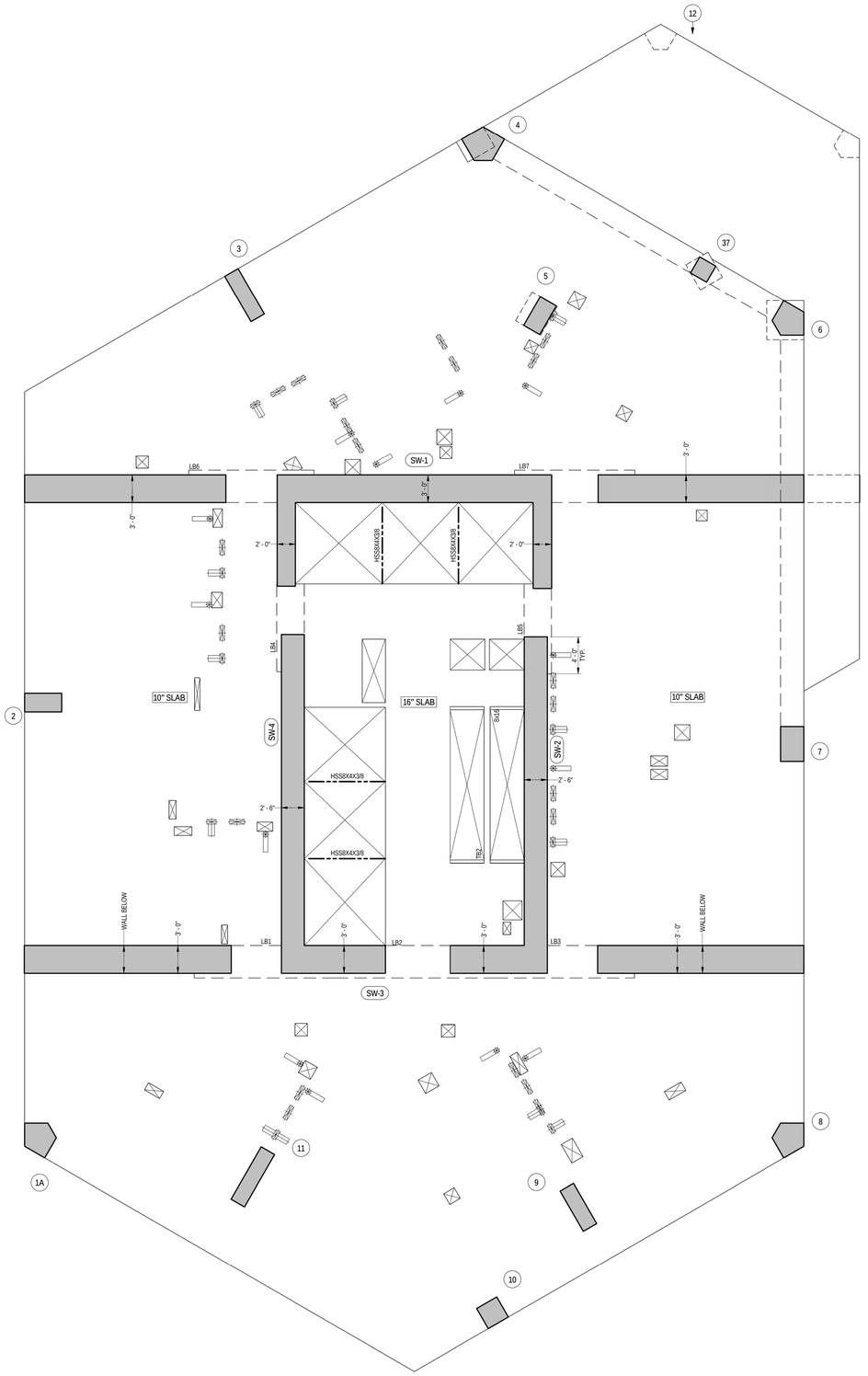
STATE OF NEW YORK — SUSAN L. MARCUS — LICENSED PROFESSIONAL ENGINEER — 057135

DATE	07/06/16
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-090.00

M:\JDS\14900\86\

DEPT OF BLDGS 320243538 Job Number

E5514403134 Scan Code



FOR REINFORCEMENT
REFER TO S-090

1 S-150 **15TH FLOOR FRAMING PLAN**

SCALE: 3/16" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE 245'-2 1/2" U.O.N. ON PLAN THUS
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 E.W. CONT. FOR 10" SLAB.
   #5@10 E.W. CONT. FOR 16" SLAB.
4. * INDICATES REBARS FOR WIND FORCES
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

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ARCHITECT
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tel 212.967.9808

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MRCE
255 WEST 34TH STREET 6TH FLOOR
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tel 646.388.9828

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51 MADISON AVE #19
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NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

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tel 212.315.6400

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ENTEK ENGINEERING
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HACKENSACK, NJ 07601
tel 201.820.0800

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
350 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
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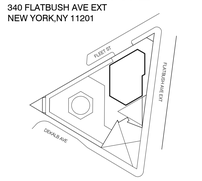

SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
		1	2015/10/016	DOB FILING SET

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DRAWING TITLE

15TH FLOOR FRAMING PLAN

SEAL & SIGNATURE

STATE OF NEW YORK SUSAN L. MARCUS LICENSED PROFESSIONAL ENGINEER

DATE	03/31/16
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-150.00

PLOT DATE: 3/31/2016 4:54:47 PM

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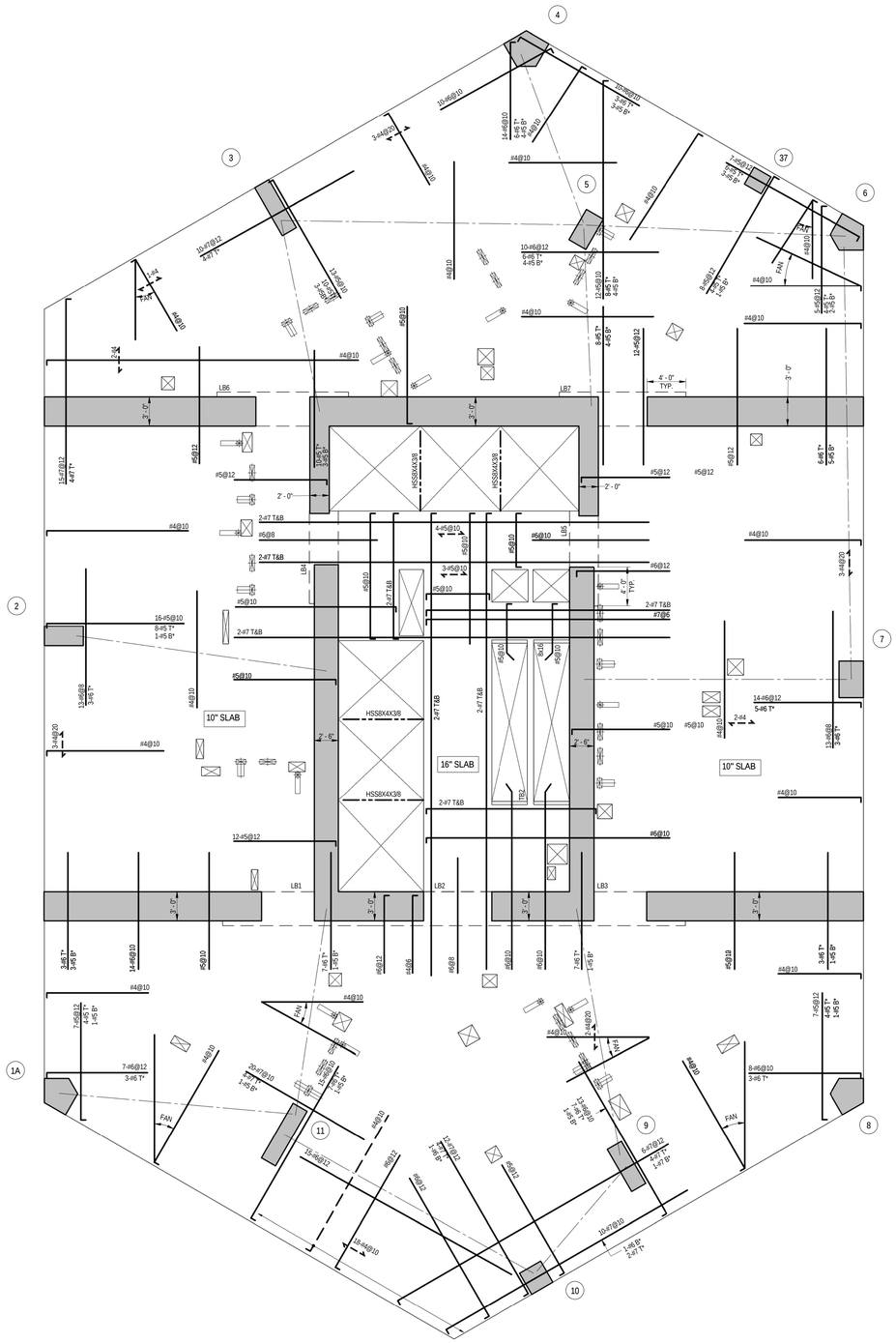
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#5@10
#4@10
#4@10
#4

DEPT OF BLDGS 320243538 Job Number

E5904513534 Scan Code

FOR BALANCE OF REINFORCEMENT
REFER TO S-160

1 S-220 **22ND FLOOR FRAMING PLAN**

SCALE: 1/4" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE 329'-2 1/2" U.O.N. ON PLAN THUS [ ]
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS [ ]
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 E.W. CONT. FOR 10" SLAB.
   #5@10 E.W. CONT. FOR 16" SLAB.
4. * INDICATES REBARS FOR WIND FORCES.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
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tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DELUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
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51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
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39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6140

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LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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HACKENSACK, NJ 07601
tel 201.820.2922

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590 SEVENTH AVENUE, 15TH FLOOR
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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.686.5389

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100 BROADWAY
NEW YORK, NY 10005
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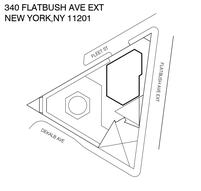

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22ND FLOOR FRAMING PLAN

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DATE	04/01/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-220.00

PLOT DATE: 10/16/2015 2:48:47 PM

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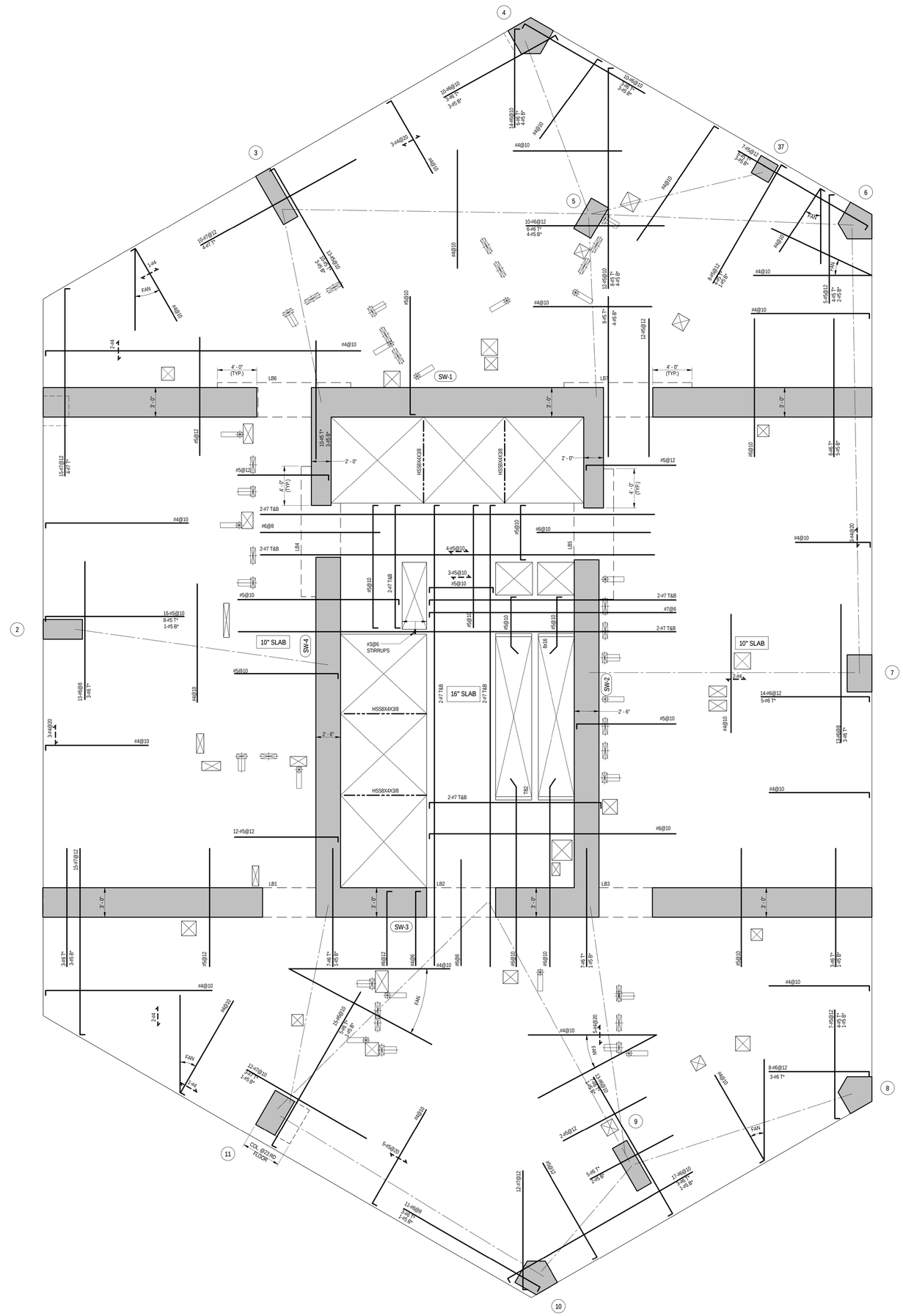

1 / S-230 — **23RD-26TH FLOOR FRAMING PLAN**
SCALE: 1/4" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE
   23RD FLOOR 341'-2 1/2"
   24TH FLOOR 353'-2 1/2"
   25TH FLOOR 365'-2 1/2"
   26TH FLOOR 377'-2 1/2"
   U.O.N. ON PLAN THUS: [ ]
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS [ ]
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 E.W. CONT. FOR 10" SLAB. #5@10 E.W. CONT. FOR 16" SLAB.
4. * INDICATES REBARS FOR WIND FORCES
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

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AKRF
440 PARK AVE SOUTH 7TH FLOOR
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tel 646.388.9828

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VERTICAL TRANSPORTATION
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120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
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NEW YORK, NY 10012
tel 646.666.0848

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NEW YORK, NY 10018
tel 212.759.6540

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tel 212.674.6500

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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINEERING
196 JAMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
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tel 212.271.7000

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BUILDING ENERGY
VIDARIS
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NEW YORK, NY 10010
tel 212.689.5369

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2026

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POOL
TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.495.4090

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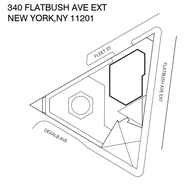

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DRAWING TITLE

23RD-26TH FLOOR FRAMING PLAN

SEAL & SIGNATURE

STATE OF NEW YORK — BRIAN L. MARCH — 050135 — LICENSED PROFESSIONAL ENGINEER

DATE	03/02/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	

DRAWING NUMBER

S-230.00

PM 2:02:23 7/16/2015

DEPT OF BLDGS 320243538 Job Number

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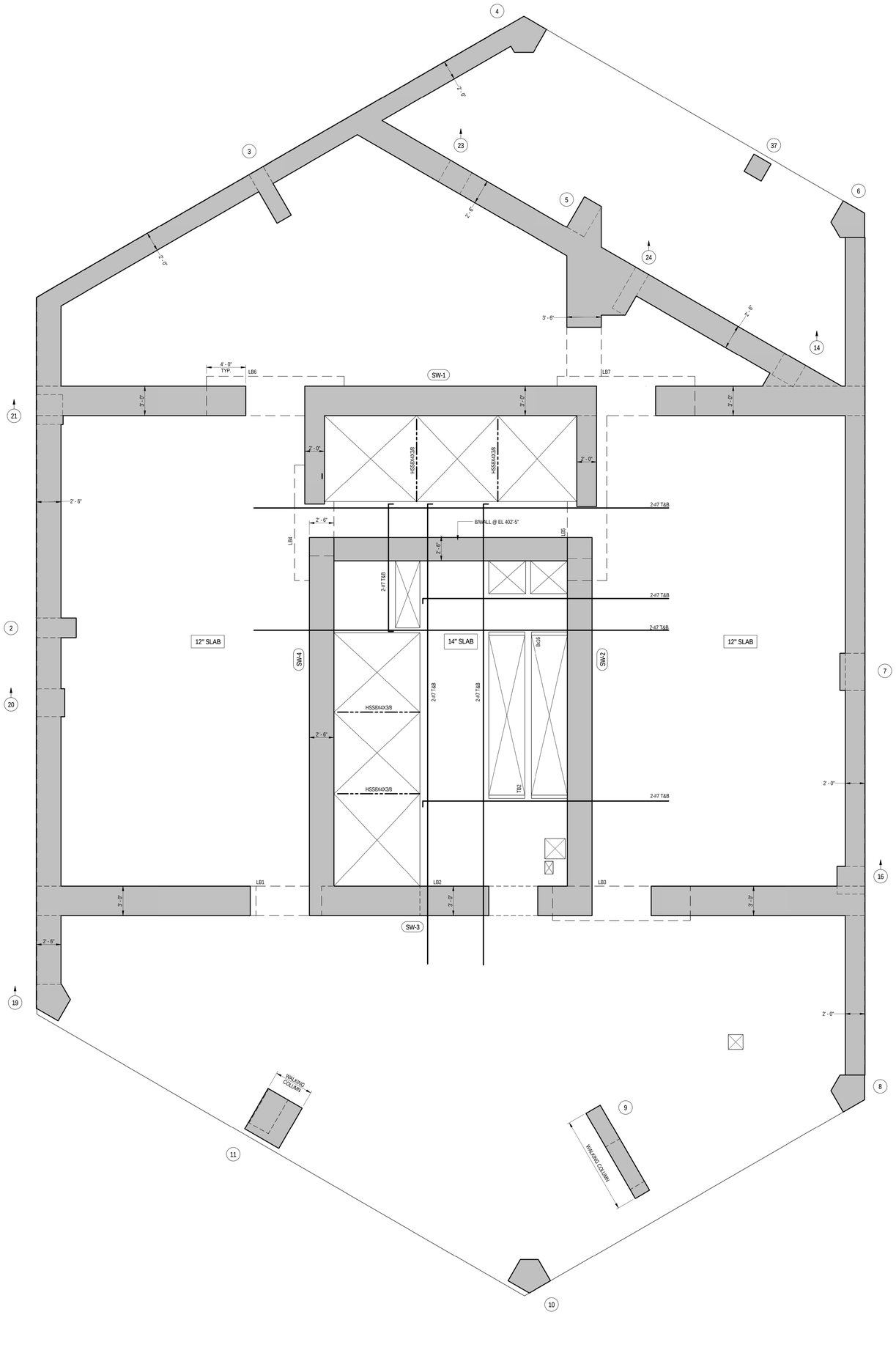

1 S-270 **27TH FLOOR FRAMING PLAN**

SCALE: 1/4" = 1'-0"

NOTES:

1. TOP OF SLAB ELEVATION TO BE 391'-5" U.O.N. ON PLAN THUS:
2. SLAB TO BE 12" THICK U.O.N. ON PLAN THUS:
3. TOP & BOTTOM MESH REINFORCEMENT TO BE: #5@12 E.W. CONT. FOR 12" SLAB.
   #5@12 E.W. CONT. FOR 14" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
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NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
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120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE # 19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
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NEW YORK, NY 10012
tel 646.666.0848

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39 WEST 37TH ST., FLOOR 12A
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tel 212.759.6140

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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINEERING
198 AMES STREET
HAZENSACK, NJ 07601
tel 201.820.2802

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
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NEW YORK, NY 10010
tel 212.686.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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WHITE PLAINS, NY 10604
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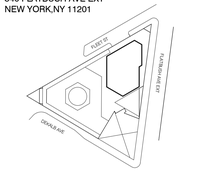

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		1	07/15/2016	DOB FILING SET

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27TH FLOOR FRAMING PLAN

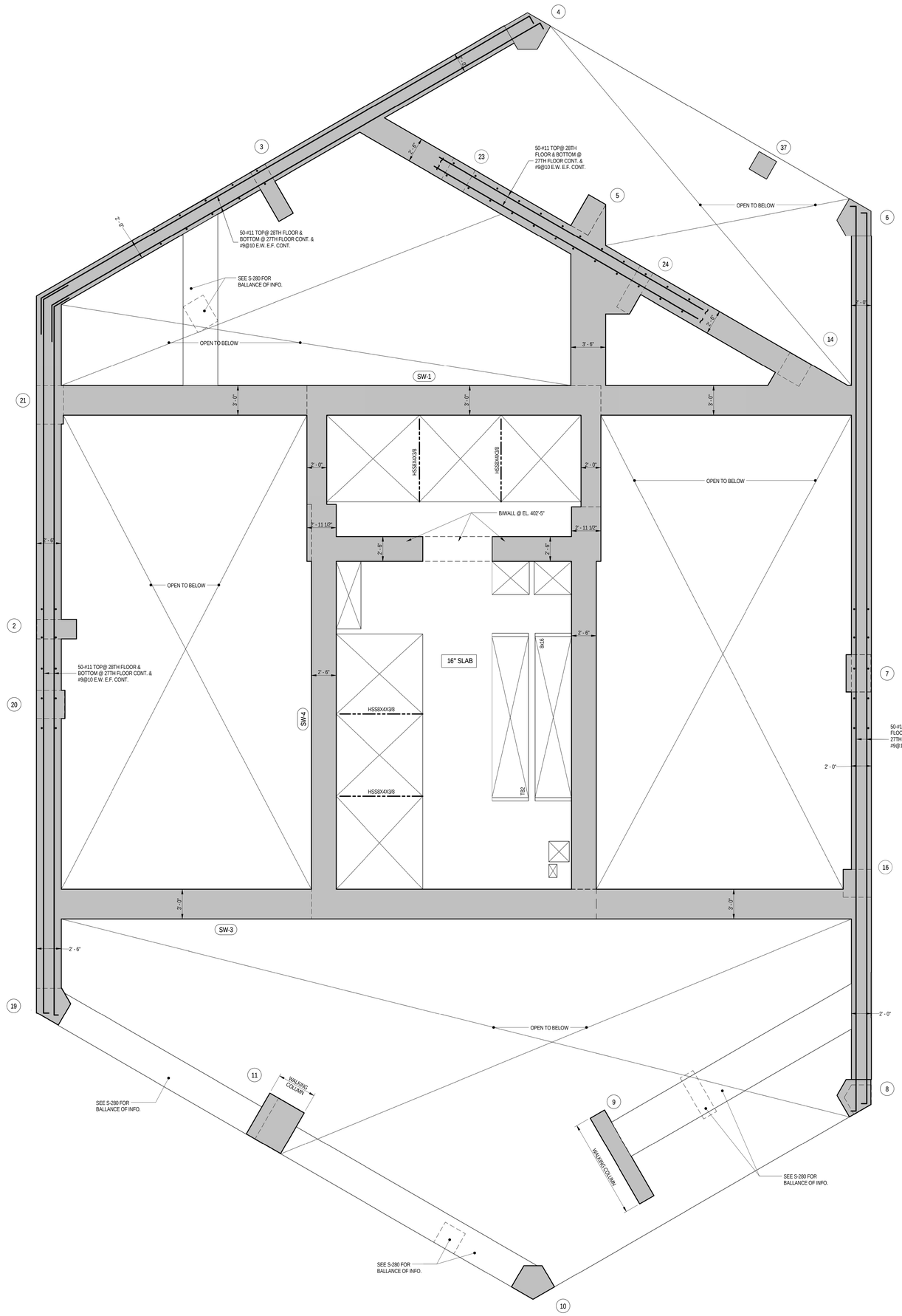
SEAL & SIGNATURE

STATE OF NEW YORK — BRIAN L. MARCHIS — 031757 — LICENSED PROFESSIONAL ENGINEER

DATE	03/02/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-270.00

7/18/2016 7:25:30 PM

DEPT OF BUILDINGS 3000143538 Job Number
B1515010001 Scan Code



1 S-275 **27TH FLOOR MEZZANINE**
SCALE: 1/4" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE 413'-5" U.O.N. ON PLAN THUS
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 (E.W.) CONT. FOR 10" SLAB. #5@12 (E.W.) CONT. FOR 16" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
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tel 917.339.9300

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NEW YORK, NY 10016
tel 646.388.9828

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VAN DELUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
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NEW YORK, NY 10012
tel 646.666.0848

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JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-9540

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tel 201.820.2802

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NEW YORK, NY 10018
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TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.495.4290

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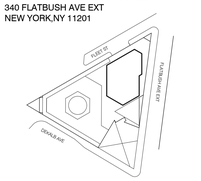
340 FLATBUSH AVE EXT
NEW YORK,NY 11201



SITE DIAGRAM

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		1	07/15/2016	DOB FILING SET

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DRAWING TITLE

27TH FLOOR MEZZANINE FRAMING PLAN

SEAL & SIGNATURE

DATE	04/25/16
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-275.00

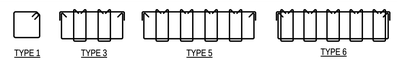
7/19/2016 2:57:47 PM

DEPT OF BUILDINGS 320214336 Job Number

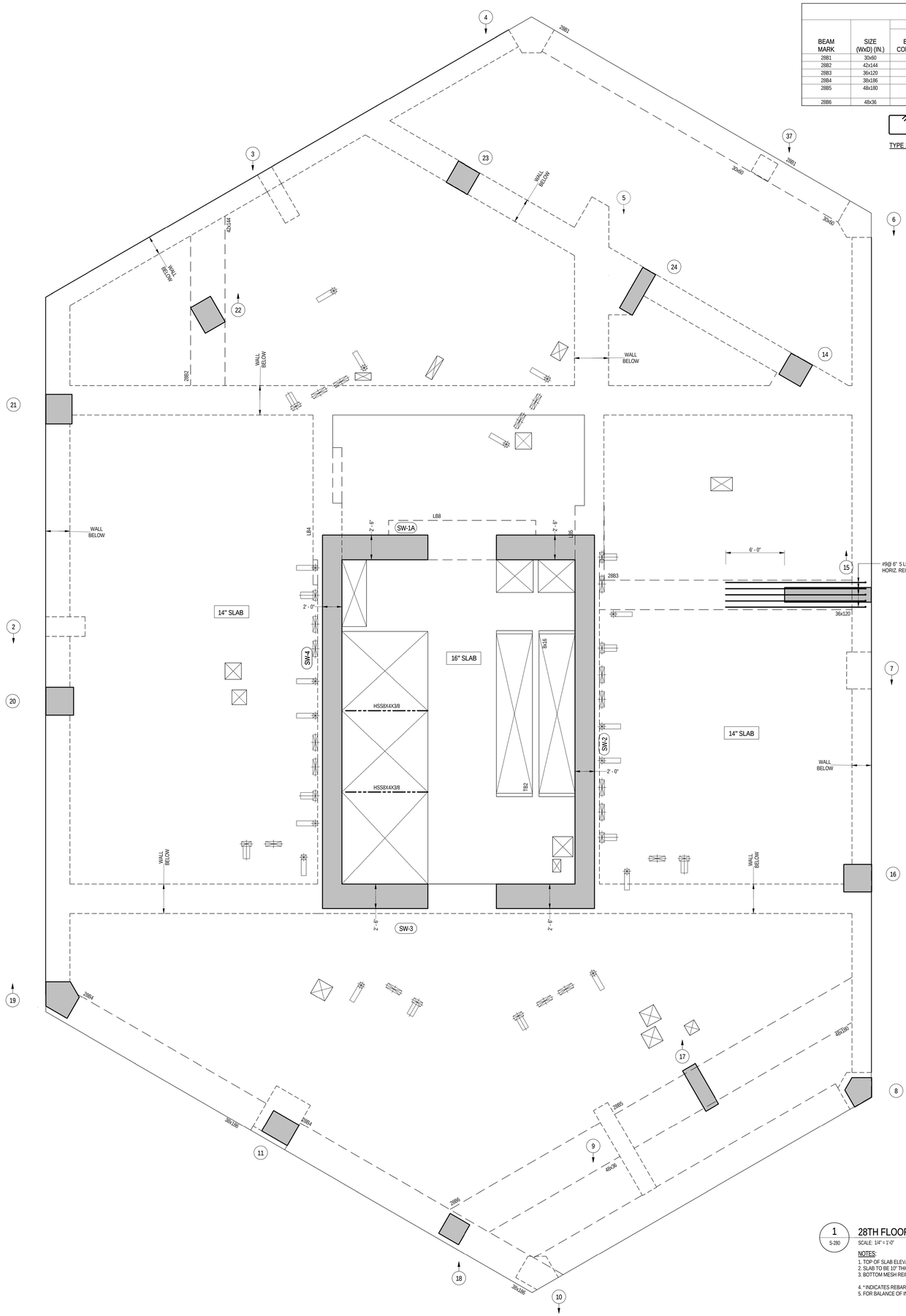
B3600630089 Scan Code

28TH FLOOR BEAM SCHEDULE

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT			STIRRUPS			REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS	TOP ADD'L BARS AT SUPPORT	TYPE	SIZE	SPACING	
28B1	30x60	6-#9	6-#9		1	#5	@12	
28B2	42x144	45-#11	15-#9		5	#7	@8	BOT. REINF. IN 3 LAYERS
28B3	36x120	30-#11	10-#9		1	#7	@12	BOT. REINF. IN 3 LAYERS
28B4	30x186	30-#11	10-#9		3	#7	@8	
28B5	48x180	80-#11	20-#9		6	#7	@8	BOT. REINF. IN 4 LAYERS, TOP REINF. IN 2 LAYERS
28B6	48x36	10-#9	10-#9		1	#5	@12	



STIRRUP TYPES



1 28TH FLOOR FRAMING PLAN

S-280

SCALE: 1/4" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE 425'-2 1/2" U.O.N. ON PLAN THUS [ ]
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS [ ]
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 (E.W.) CONT. FOR 10" SLAB. #5@12 (E.W.) CONT. FOR 14" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES ARCHITECTURE DESIGN PLANNING

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6140

BOLD

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BOLD
237 WEST 26TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2800

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 16TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
350 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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POOL
TRACE POOL DESIGN
330 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4090

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340 FLATBUSH AVE EXT
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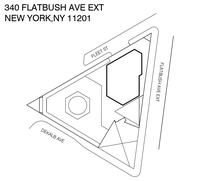

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NO.	DATE	REVISION
1	2015/03/16	DOB FILING SET

DATE ISSUE

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DRAWING TITLE

28TH FLOOR FRAMING PLAN

SEAL & SIGNATURE

STATE OF NEW YORK SUSAN L. MARCUS 031175 LICENSED PROFESSIONAL ENGINEER

DATE	03/02/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-280.00

3/16/2015 2:26:07 PM

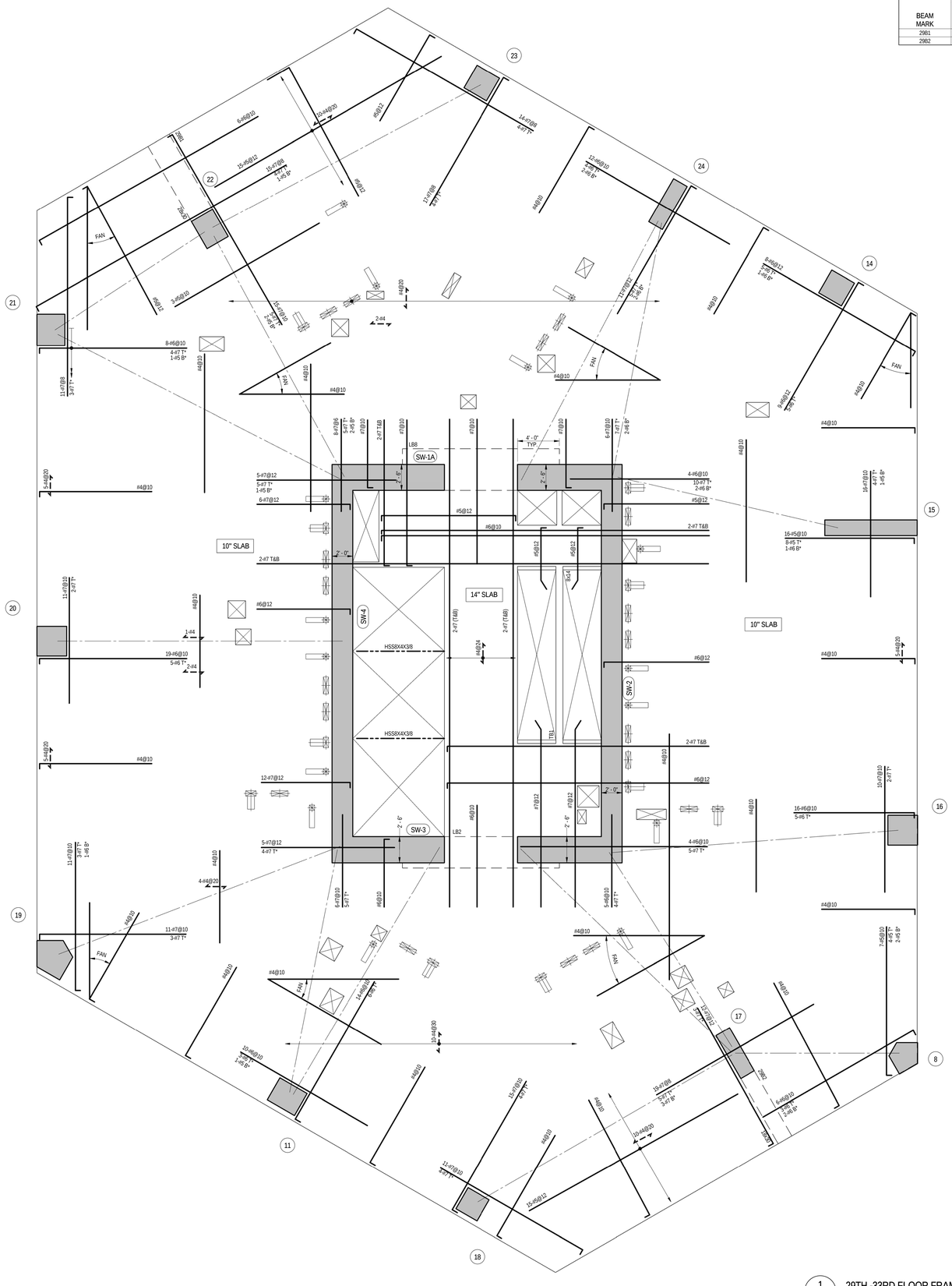
DEPT OF BLDGS 320014336 Job Number
E300582529YB Scan Code

29TH FLOOR BEAM SCHEDULE

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT			STIRRUPS			REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS	TOP ADD'L BARS AT SUPPORT	TYPE	SIZE	SPACING	
29B1	28x30	6-#8	6-#8		2	#4	@8	CANT. BEAM
29B2	18x30	4-#9	4-#9		2	#4	@8	CANT. BEAM

TYPE 2

STIRRUP TYPES



1 S-290

29TH -33RD FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0"

NOTES:

1. TOP OF SLAB ELEVATION TO BE
   - 29TH FLOOR 437'-2 1/2"
   - 30TH FLOOR 449'-2 1/2"
   - 31ST FLOOR 461'-2 1/2"
   - 32ND FLOOR 473'-2 1/2"
   - 33RD FLOOR 485'-2 1/2" U.O.N. ON PLAN THUS: [ ]
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS: [ ]
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 E.W. CONT. FOR 10" SLAB. #5@12 E.W. CONT. FOR 14" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS, BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.887.9808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
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NEW YORK, NY 10001
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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
196 JAMES STREET
HACKENSACK, NJ 07601
tel 201.820.2922

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7500

VIDARIS

BUILDING ENERGY
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360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
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NEW YORK, NY 10005
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TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.485.4290

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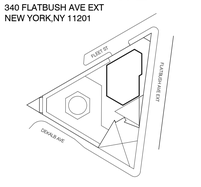

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DRAWING TITLE

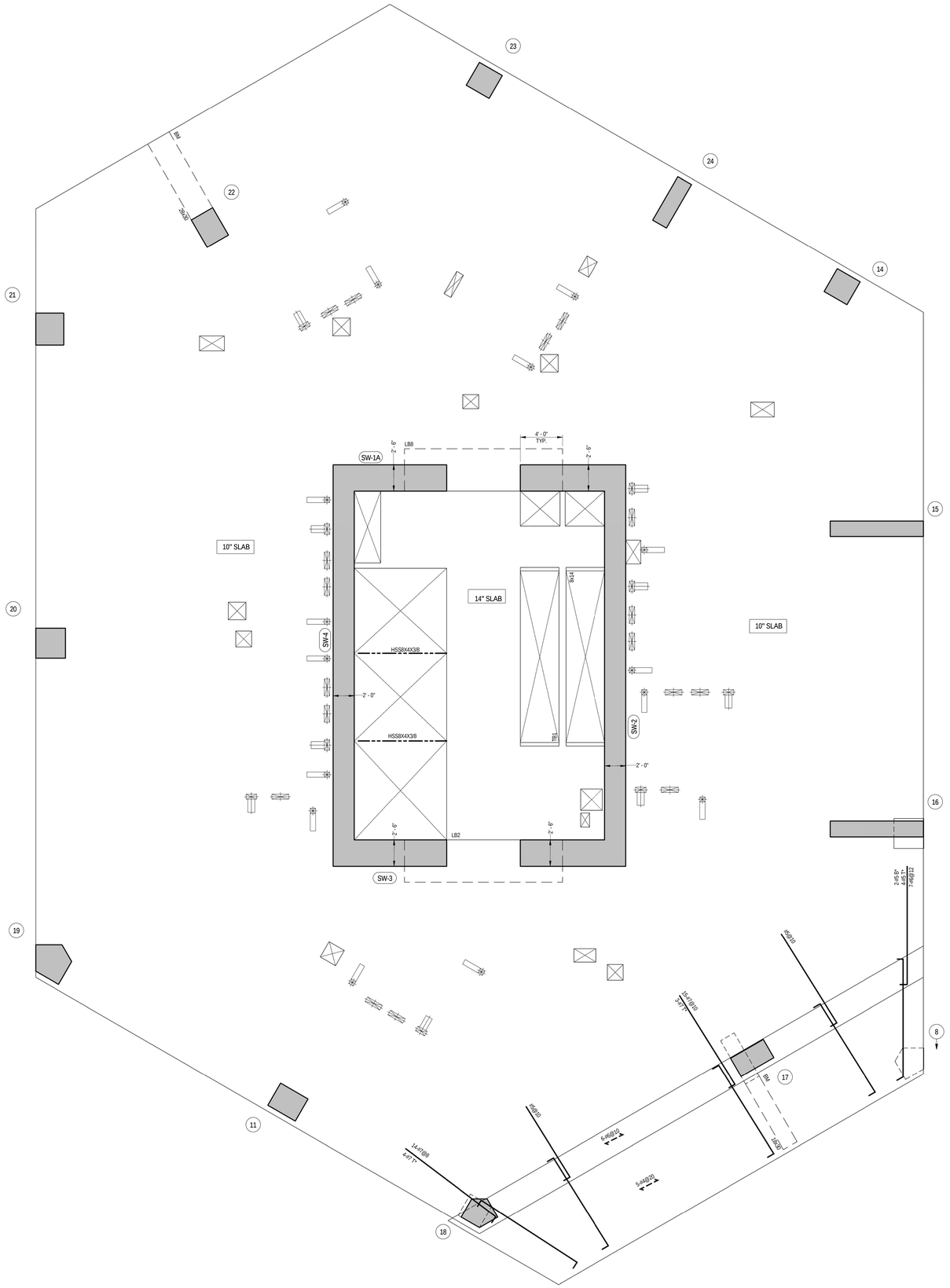
29TH-33RD FLOOR FRAMING PLAN

SEAL & SIGNATURE

DATE	06/27/16
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-290.00

PLT: 24"x36" STANDARD

DEPT OF BLDGS 320243538 Job Number
B3A4M74137 Scan Code



FOR BALANCE OF REINFORCEMENT
REFER TO S-290

1 S-340 **34TH FLOOR FRAMING PLAN**

SCALE: 1/4" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE 497'-2 1/2". U.O.N. ON PLAN THUS
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 E.W. CONT. FOR 10" SLAB.
   #5@12 E.W. CONT. FOR 14" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 13TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

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GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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NEW YORK, NY 10016
tel 646.388.9828

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EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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GACHOT
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tel 646.666.0848

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JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.759.6140

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NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2922

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
590 SEVENTH AVENUE, 15TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
900 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BURO HAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.0325

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4780

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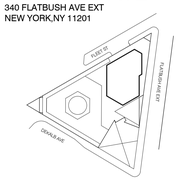

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		1	07/15/2016	DOB FILING SET

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DRAWING TITLE

34TH FLOOR FRAMING PLAN

SEAL & SIGNATURE

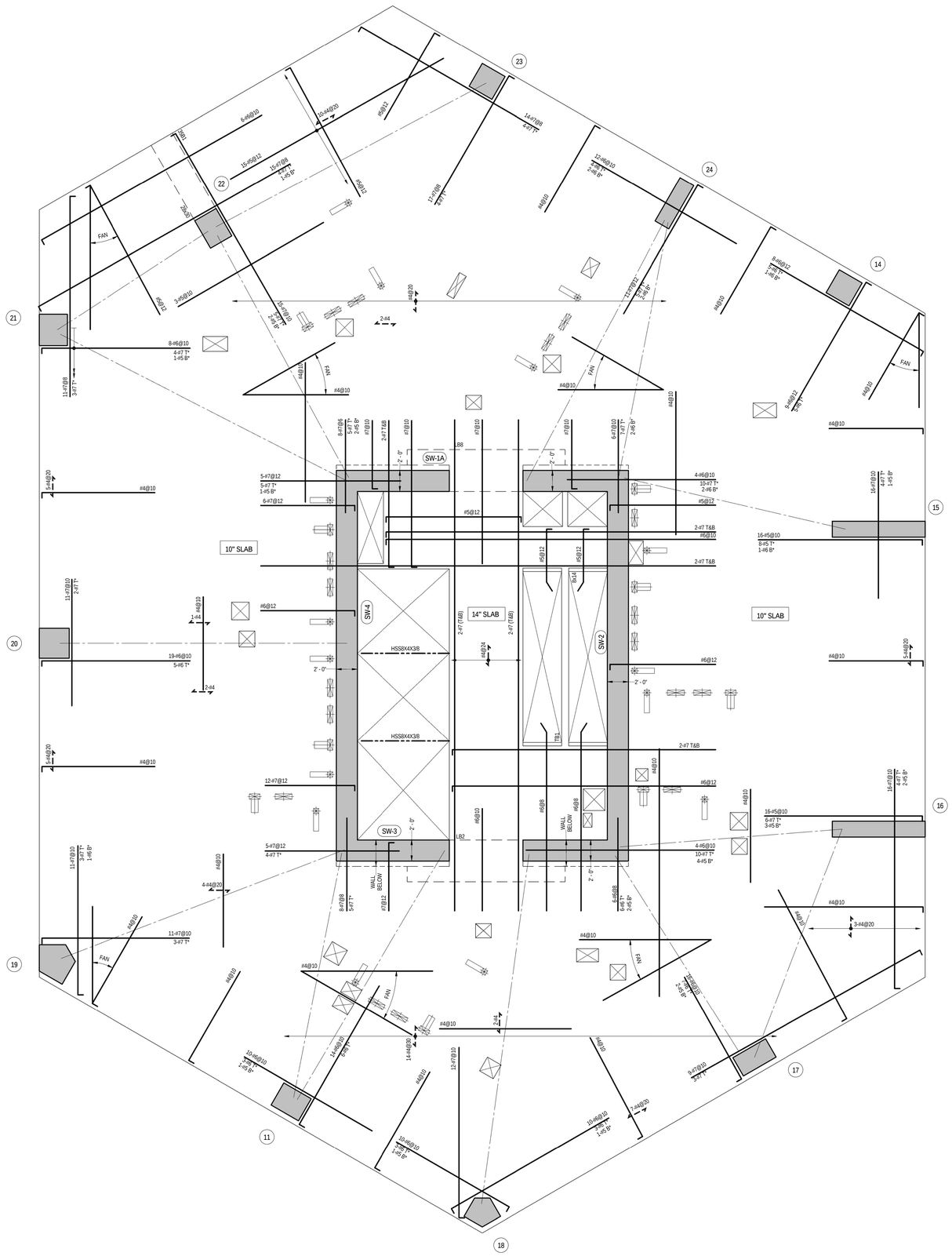
STATE OF NEW YORK SUSAN L. MARCUS 029135 LICENSED PROFESSIONAL ENGINEER

DATE	04/01/16
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-340.00

7/15/2016 2:56:19 PM

DEPT OF BLDGS 320014336 Job Number

B320630810SI Scan Code



1 S-350 **35TH-39TH FLOOR FRAMING PLAN**

SCALE: 1/4" = 1'-0"

NOTES:

1. TOP OF SLAB ELEVATION TO BE
   35TH FLOOR 509'-2 1/2"
   36TH FLOOR 521'-2 1/2"
   37TH FLOOR 533'-2 1/2"
   38TH FLOOR 545'-2 1/2"
   39TH FLOOR 557'-2 1/2"
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 E.W. CONT. FOR 10" SLAB. #5@12 E.W. CONT. FOR 14" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

35TH FLOOR BEAM SCHEDULE

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT: BOTTOM CONTINUOUS	REINFORCEMENT: TOP CONTINUOUS	REINFORCEMENT: TOP ADD'L BARS AT SUPPORT	STIRRUPS: TYPE	STIRRUPS: SIZE	STIRRUPS: SPACING	REMARKS
35B1	28x30	6-#8	6-#8		2	#4	@8	CANT. BEAM

TYPE 2

STIRRUP TYPES

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.887.8808

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-9140

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.805.2802

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

BUILDING ENERGY
VIDARIS
560 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.0325

POOL
TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.495.4780

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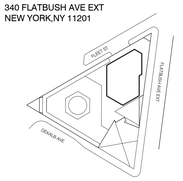

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DRAWING TITLE

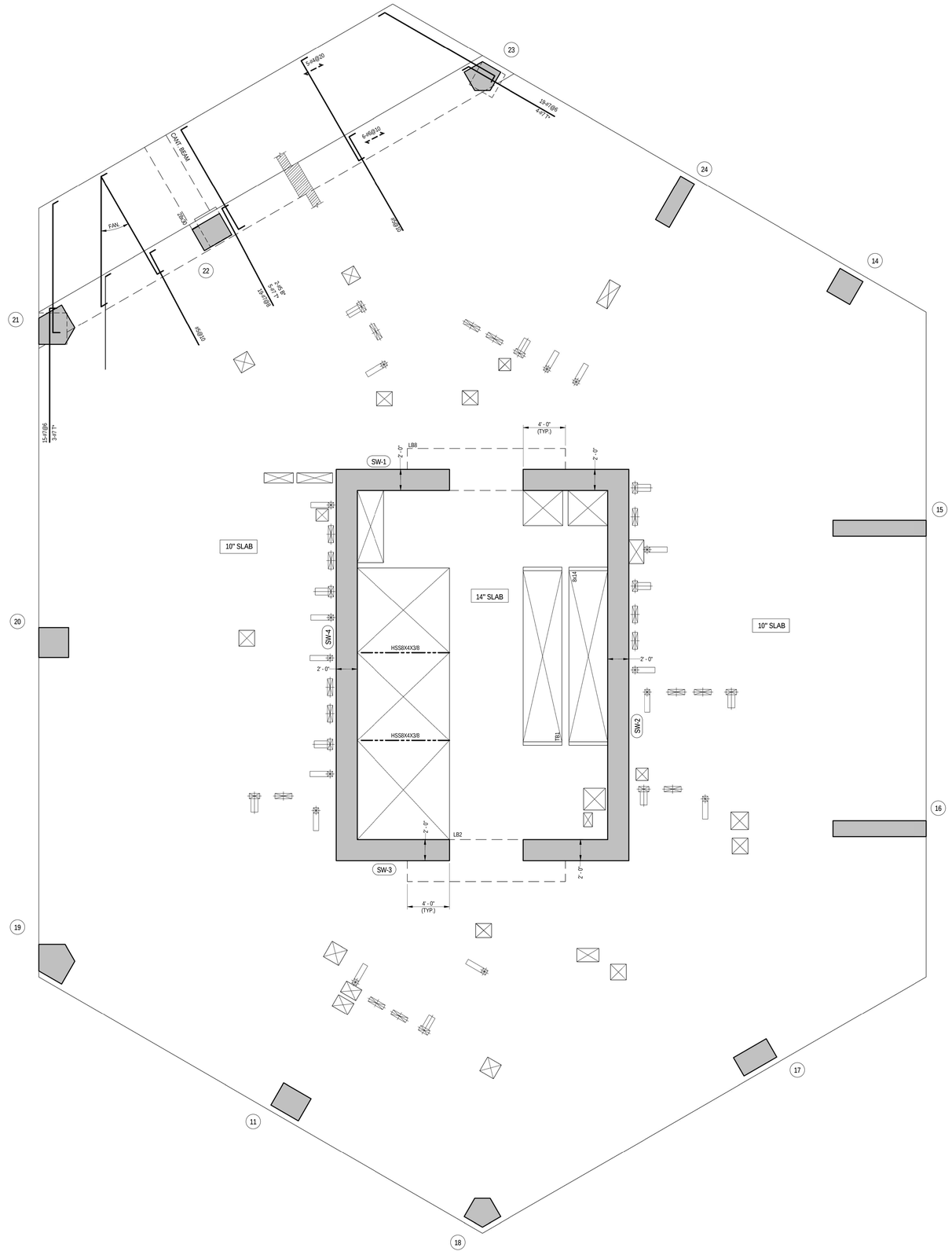
35TH - 39TH FLOOR FRAMING PLAN

SEAL & SIGNATURE

DATE	03/02/15
PROJECT NO.	1-600366
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-350.00

3/4/2016 2:56:48 PM

DEPT OF BLDGS 320014336 Job Number
E5179962999 Scan Code



FOR BALANCE OF REINFORCEMENT
REFER TO S-350

1 S-400 **40TH FLOOR FRAMING PLAN**
SCALE: 1/4" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE 569'-2 1/2" U.O.N. ON PLAN THUS
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 E.W. CONT. FOR 10" SLAB.
   #5@12 E.W. CONT. FOR 14" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
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tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
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NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 13TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
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225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

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GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
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GACHOT
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tel 212.759-8140

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LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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HACKENSACK, NJ 07601
tel 201.820.2902

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SIMPSON GUMPERTZ & HEGER
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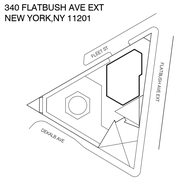

SITE DIAGRAM

DATE	ISSUE

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DRAWING TITLE

40TH FLOOR FRAMING PLAN

SEAL & SIGNATURE

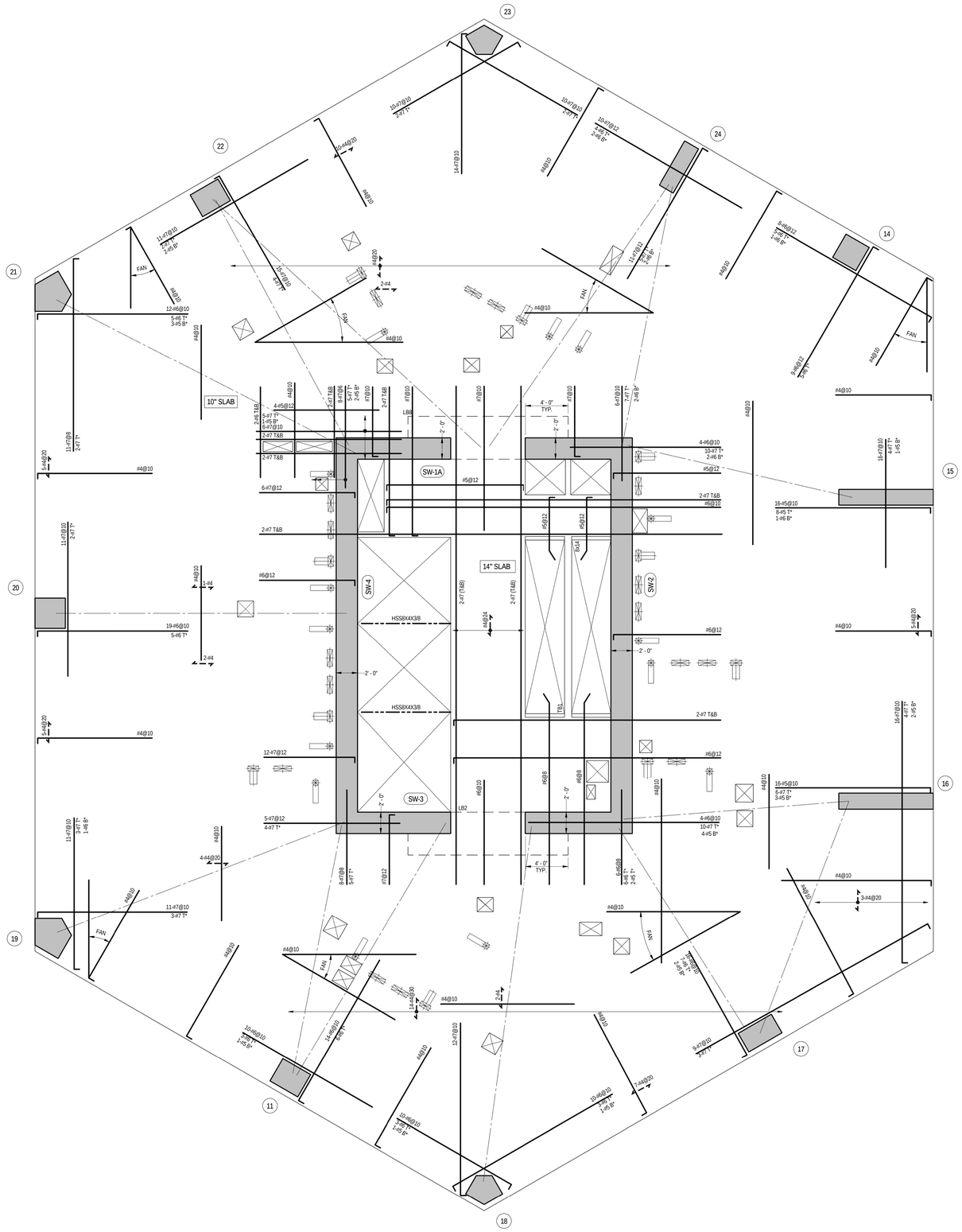
STATE OF NEW YORK JOHN L. MARCH 031736 LICENSED PROFESSIONAL ENGINEER

DATE	04/01/16
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-400.00

7/15/2016 7:26:36 PM

DEPT OF BLDGS 320014336 Job Number

B3901400035 Scan Code



1 / S-410 — 41ST - 44TH FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0"

NOTES:

1. TOP OF SLAB ELEVATION TO BE
   - 41ST FLOOR 581'-2 1/2"
   - 42ND FLOOR 593'-2 1/2"
   - 43RD FLOOR 605'-2 1/2"
   - 44TH FLOOR 617'-2 1/2"
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS [ ]
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 E.W. CONT. FOR 10" SLAB. #5@12 E.W. CONT. FOR 14" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

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JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212 759 6540

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LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
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BUILDING ENERGY
VIDARIS
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NEW YORK, NY 10010
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NEW YORK, NY 10005
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WHITE PLAINS, NY 10604
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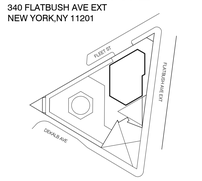

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DRAWING TITLE

41ST - 44TH FLOOR FRAMING PLAN

SEAL & SIGNATURE

STATE OF NEW YORK — JULIAN L. MARCUS — 057135 — LICENSED PROFESSIONAL ENGINEER

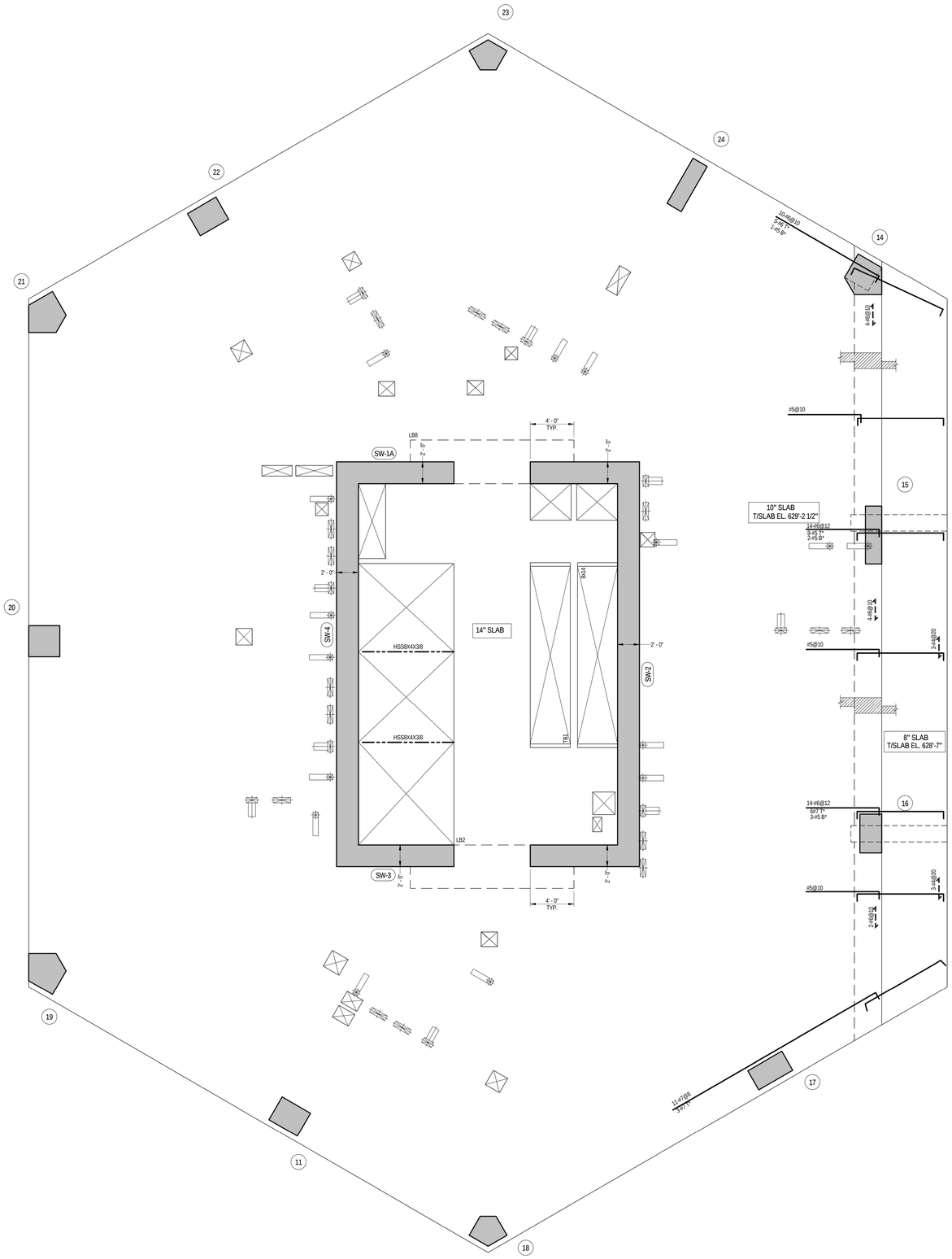
DATE	03/02/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	

DRAWING NUMBER

S-410.00

7/15/2015 2:37:05 PM

DEPT OF BLDGS 320014338 Job Number
ES1607039979 Scan Code



FOR BALANCE OF REINFORCEMENT
REFER TO S-410

1 / S-450 — 45TH FLOOR FRAMING PLAN
SCALE: 1/4" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE 629'-2 1/2" U.O.N. ON PLAN THUS
2. SLAB TO BE 12" THICK U.O.N. ON PLAN THUS
3. BOTTOM MESH REINFORCEMENT TO BE #5@10 E.W. CONT. FOR 12" & 16" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

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GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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AKRF
440 PARK AVE SOUTH 7TH FLOOR
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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
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EAST HANOVER, NJ 07936
tel 646.625.3640

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51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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GACHOT
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NEW YORK, NY 10012
tel 646.666.0848

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tel 212.759.6140

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227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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196 AMES STREET
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tel 201.820.2902

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NEW YORK, NY 10010
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BURO HAPPOLD
100 BROADWAY
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333 WESTCHESTER AVENUE
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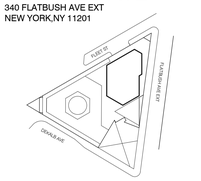

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45TH FLOOR FRAMING PLAN

SEAL & SIGNATURE

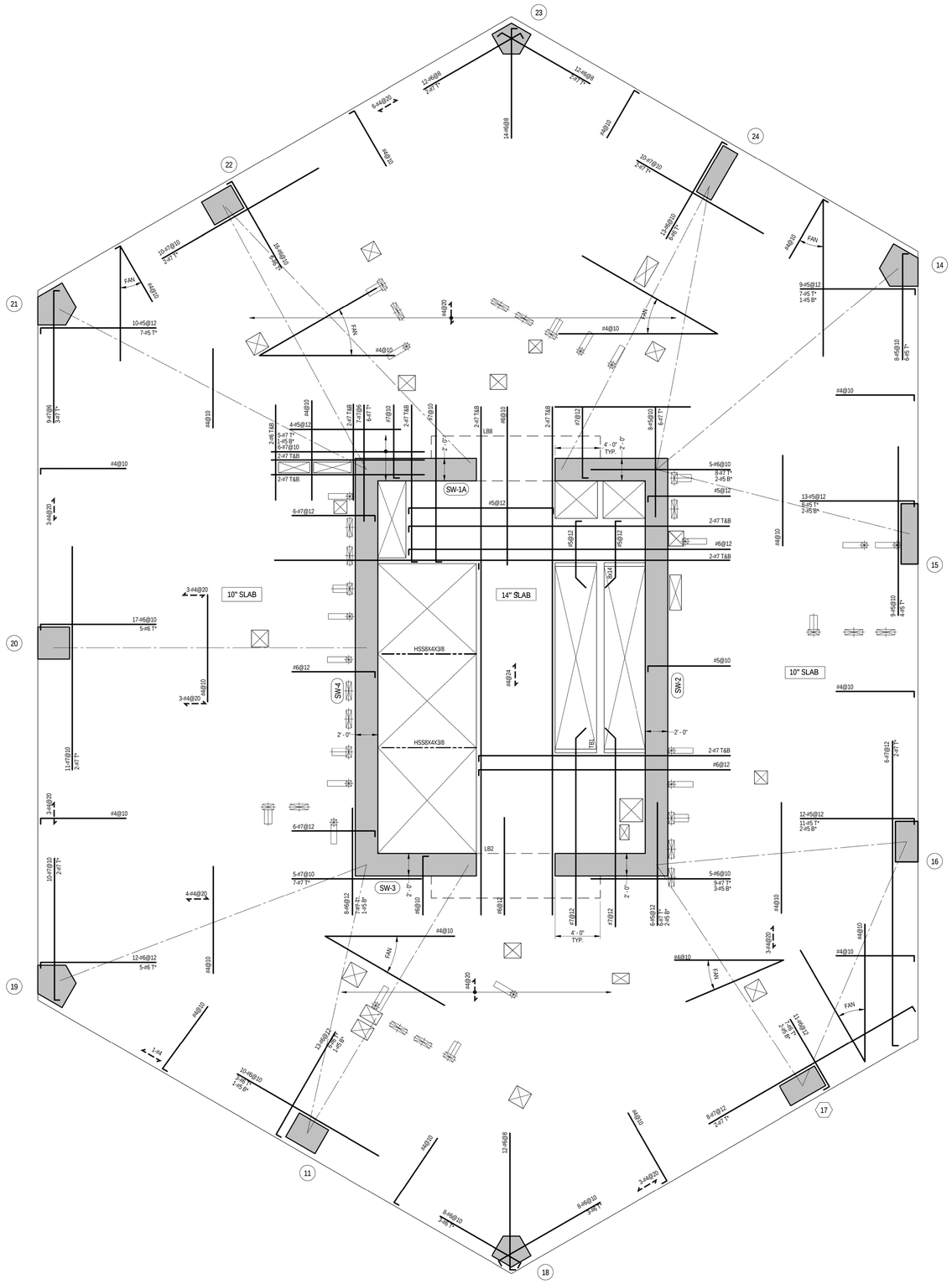
STATE OF NEW YORK — STEVEN L. MACIOCE — LICENSED ARCHITECT

DATE	03/09/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-450.00

7/15/2016 2:27:11 PM

DEPT OF BLDGS 320014336 Job Number

E350056466 Scan Code



1 S-460 **46TH-48TH FLOOR FRAMING PLAN**

SCALE: 1/4" = 1'-0"

NOTES:

1. TOP OF SLAB ELEVATION TO BE
   46TH FLOOR 641'-2 1/2"
   47TH FLOOR 653'-2 1/2"
   48TH FLOOR 665'-2 1/2"
   U.O.N. ON PLAN THUS: [ ]
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS [ ]
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 E.W. CONT. FOR 10" SLAB. #5@12 E.W. CONT. FOR 14" SLAB.
4. * INDICATES REBARS FOR WIND BRACES.
4. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
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NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
30 PINE STREET, 11TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

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GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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CIVIL ENGINEER
AKRF
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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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GACHOT
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NEW YORK, NY 10001
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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK EGINNEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

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SIMPSON GUMPERTZ & HEGER
590 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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tel 212.686.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
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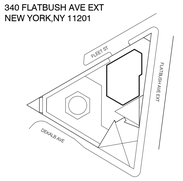

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DRAWING TITLE

46TH - 48TH FLOOR FRAMING PLAN

SEAL & SIGNATURE

STATE OF NEW YORK STEVEN L. MAGGIO 091178 LICENSED PROFESSIONAL ENGINEER

DATE	03/02/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-460.00

7/15/2016 1:27:17 PM

DEPT OF BLDGS 320014336 Job Number

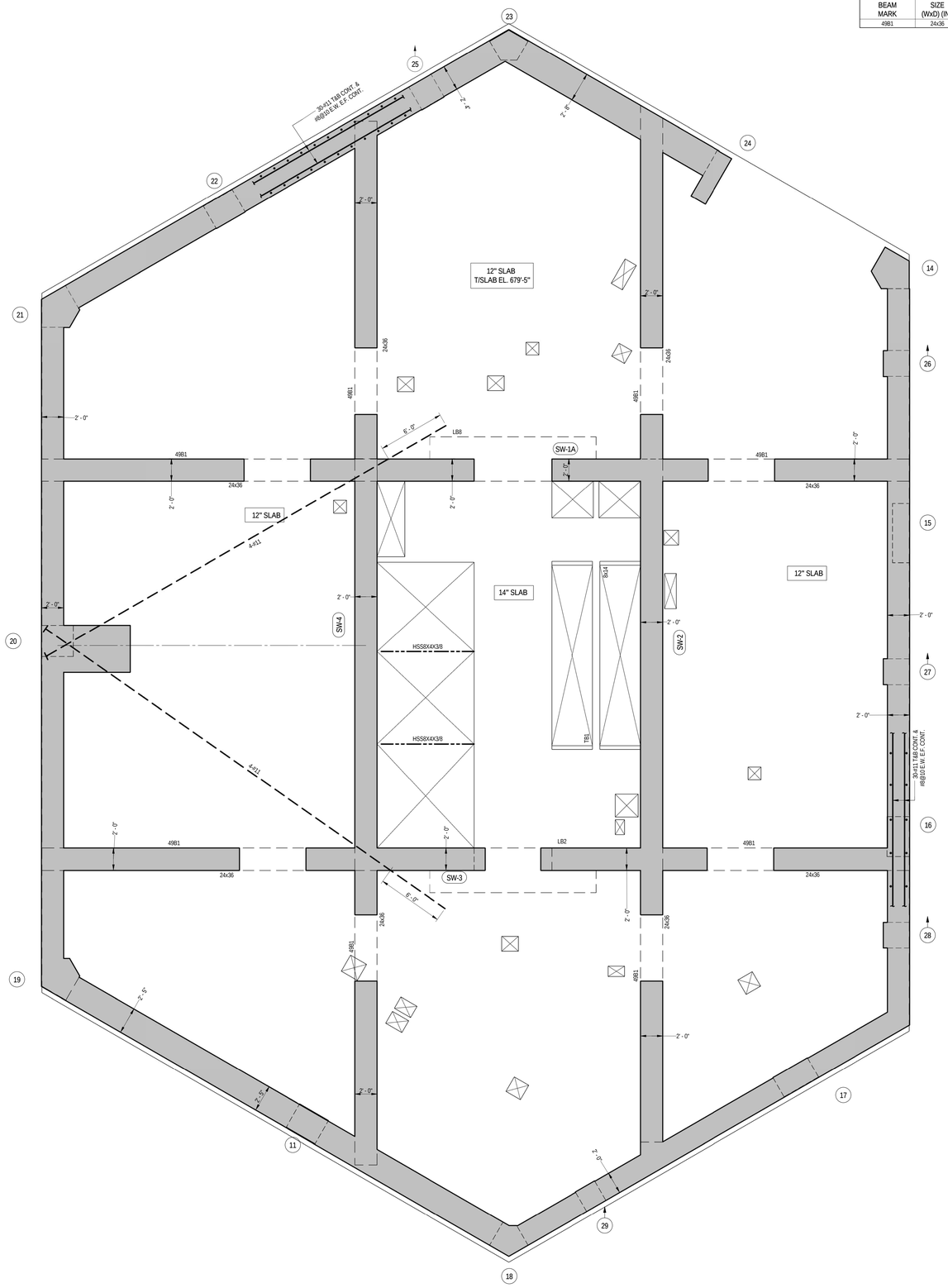
E162155597IS Scan Code

49TH FLOOR BEAM SCHEDULE

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT			STIRRUPS			REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS	TOP ADD'L BARS AT SUPPORT	TYPE	SIZE	SPACING	
49B1	24x36	5-#11	5-#11		2	#6	@8	

TYPE 2

STIRRUP TYPES



1 S-490 **49TH FLOOR FRAMING PLAN**

SCALE: 1/4" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE 679'-5" U.O.N. ON PLAN THUS
2. SLAB TO BE 12" THICK U.O.N. ON PLAN THUS
3. TOP & BOTTOM MESH REINFORCEMENT TO BE: #5@10 E.W. CONT. FOR 12" & 14" SLAB.
4. * INDICATES REBARS FOR WIND FORCES
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK,NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

GEOTECHNICAL ENGINEER
MRCE
255 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

VERTICAL TRANSPORTATION
VAN DELUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
104 BROADWAY SUITE 509
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tel 646.666.0848

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

BMU ENGINEER
ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2922

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

FIRE SAFETY ENGINEER
BURO HAPPOLD
120 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4290

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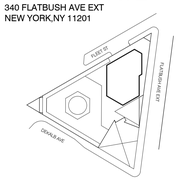

SITE DIAGRAM

NO.	DATE	REVISION
1	2015/10/16	DOB FILING SET

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DRAWING TITLE

49TH FLOOR FRAMING PLAN

SEAL & SIGNATURE

LICENSED PROFESSIONAL ENGINEER STATE OF NEW YORK SEAN L. MALONE 091733 DATE OF EXPIRATION

DATE	03/02/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-490.00

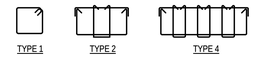
PLOT DATE: 10/16/2015

DEPT OF BLDGS 320014336 Job Number

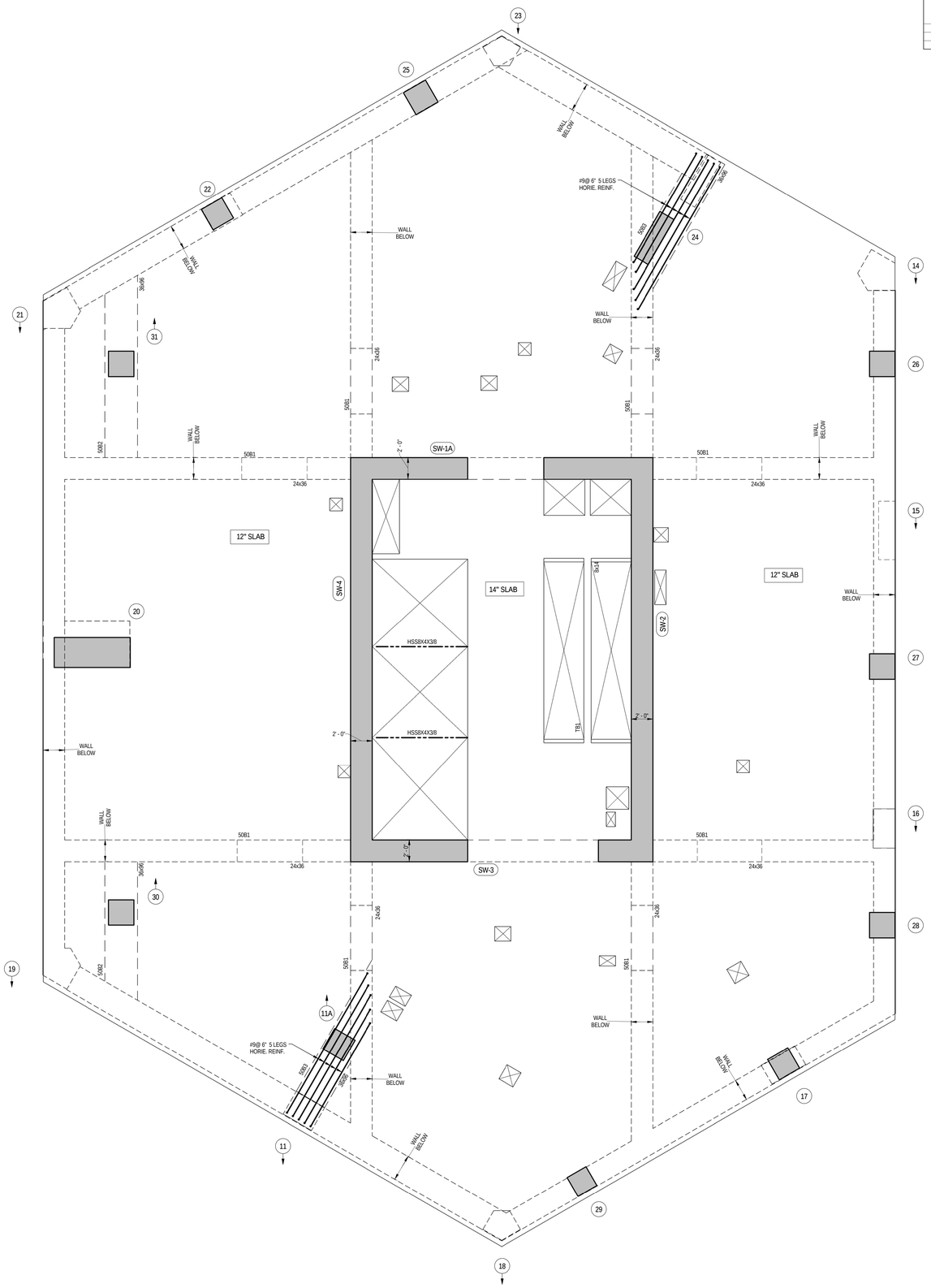
B320061103W Scan Code

50TH FLOOR BEAM SCHEDULE

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT			STIRRUPS			REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS	TOP ADD'L BARS AT SUPPORT	TYPE	SIZE	SPACING	
50B1	24x36	5-#11	5-#11		2	#6	@8	
50B2	36x96	20-#11	10-#9		4	#7	@8	
50B3	36x96	16-#11	8-#9		1	#5	@12	



STIRRUP TYPES



FOR BALANCE OF REINFORCEMENT REFER TO S-490

1 S-500 **50TH FLOOR FRAMING PLAN (WIND FLOOR)**

SCALE: 1/4" = 1'-0"

NOTES:

1. TOP OF SLAB ELEVATION TO BE 701'-9" U.O.N. ON PLAN THUS
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 (E.W.) CONT. FOR 10" SLAB. #5@12 (E.W.) CONT. FOR 14" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.759.6140

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BOLD
237 WEST 26TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2922

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
590 SEVENTH AVENUE, 15TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5369

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2026

Lagoon TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
320 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4700

9 DEKALB AVE

340 FLATBUSH AVE EXT
NEW YORK,NY 11201

SITE DIAGRAM

DATE	ISSUE

NO.	DATE	REVISION
1	07/15/2016	DOB FILING SET

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DRAWING TITLE

50TH FLOOR FRAMING PLAN

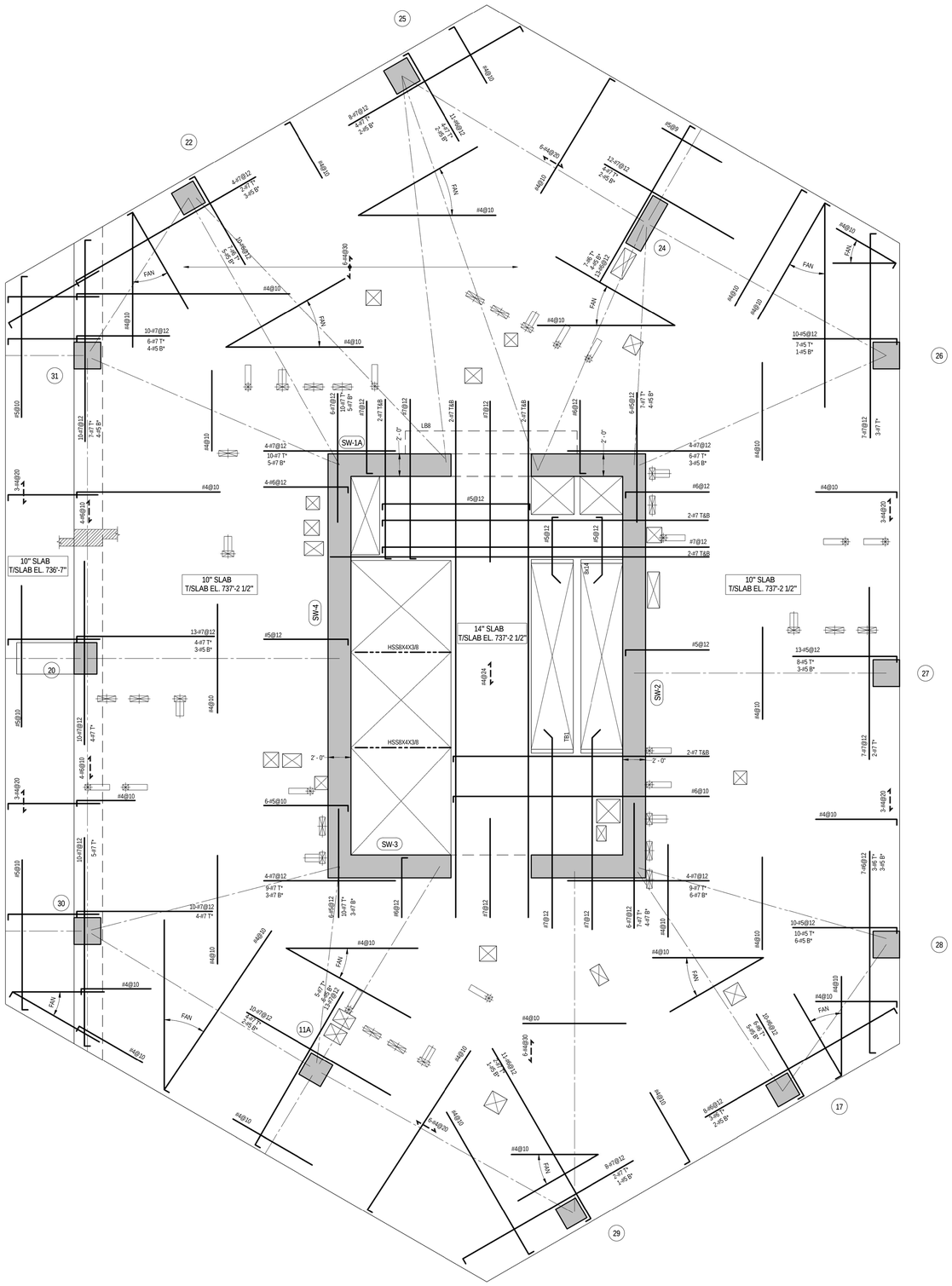
SEAL & SIGNATURE

STATE OF NEW YORK — BRIAN L. MARCH — 057135 — LICENSED PROFESSIONAL ENGINEER

DATE	03/10/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-500.00

3/10/2016 2:12:21 PM

DEPT OF BLDGS 320014336 Job Number
E350343235 Scan Code



1 S-510 **51ST FLOOR FRAMING PLAN**

SCALE: 1/4" = 1'-0"

NOTES:

1. TOP OF SLAB ELEVATION TO BE 737'-2 1/2" U.O.N. ON PLAN THUS
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 E.W. CONT. FOR 10" SLAB. #5@12 E.W. CONT. FOR 14" SLAB.
4. FOR BALANCE OF INFORMATION SEE DWG. S-010.
5. * INDICATES REBARS FOR WIND FORCES.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.887.9808

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

VERTICAL TRANSPORTATION
VAN DELUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

BMU ENGINEER
ENTEK ENGINNERING
186 JAMES STREET
HACKENSACK, NJ 07601
tel 201.820.2922

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 15TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
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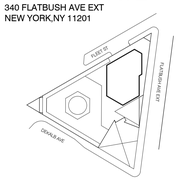

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1	02/15/2016 DOB FILING SET

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DRAWING TITLE

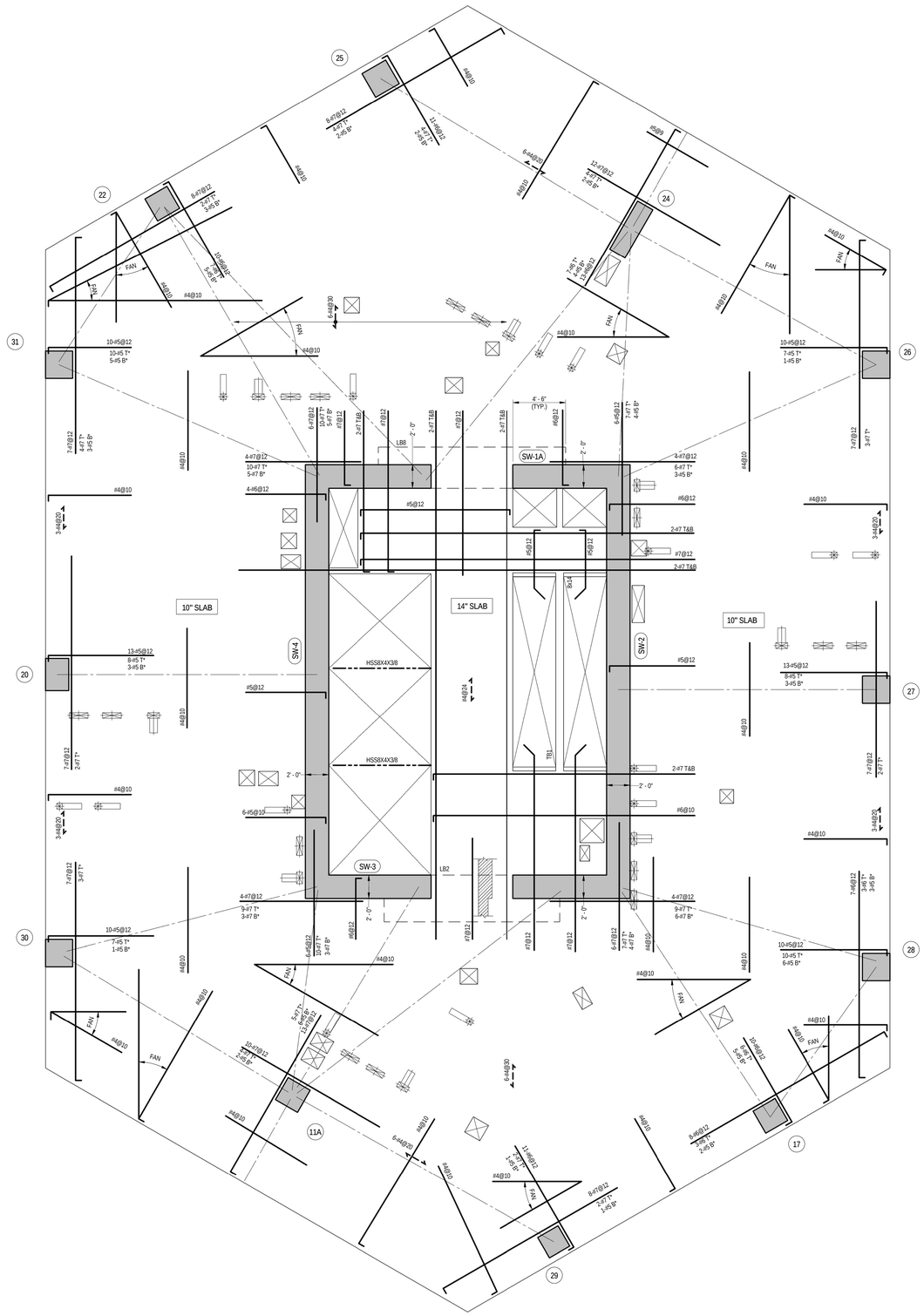
51ST FLOOR FRAMING PLAN

SEAL & SIGNATURE

DATE	04/04/16
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-510.00

7/18/2016 2:37:37 PM

DEPT OF BUILDINGS 320014336 Job Number
ES4320035TS Scan Code



1 S-520 **52ND - 55TH FLOOR FAMING PLAN**
SCALE: 1/4" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE
52ND FLOOR 749'-2 1/2"
53RD FLOOR 761'-2 1/2"
54TH FLOOR 773'-2 1/2"
55TH FLOOR 785'-2 1/2"
U.O.N. ON PLAN THUS
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 E.W. CONT. FOR 10" SLAB. #5@12 E.W. CONT. FOR 14" SLAB.
4. FOR BALANCE OF INFORMATION SEE DWG. S-010.
5. * INDICATES REBARS FOR WIND FORCES.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 13TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DELUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-9140

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LIGHTING
BOLD
237 WEST 26TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2882

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 15TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4090

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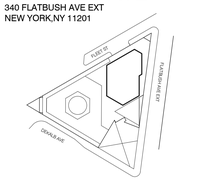
340 FLATBUSH AVE EXT
NEW YORK,NY 11201



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DRAWING TITLE

52ND - 55TH FLOOR FRAMING PLAN

SEAL & SIGNATURE

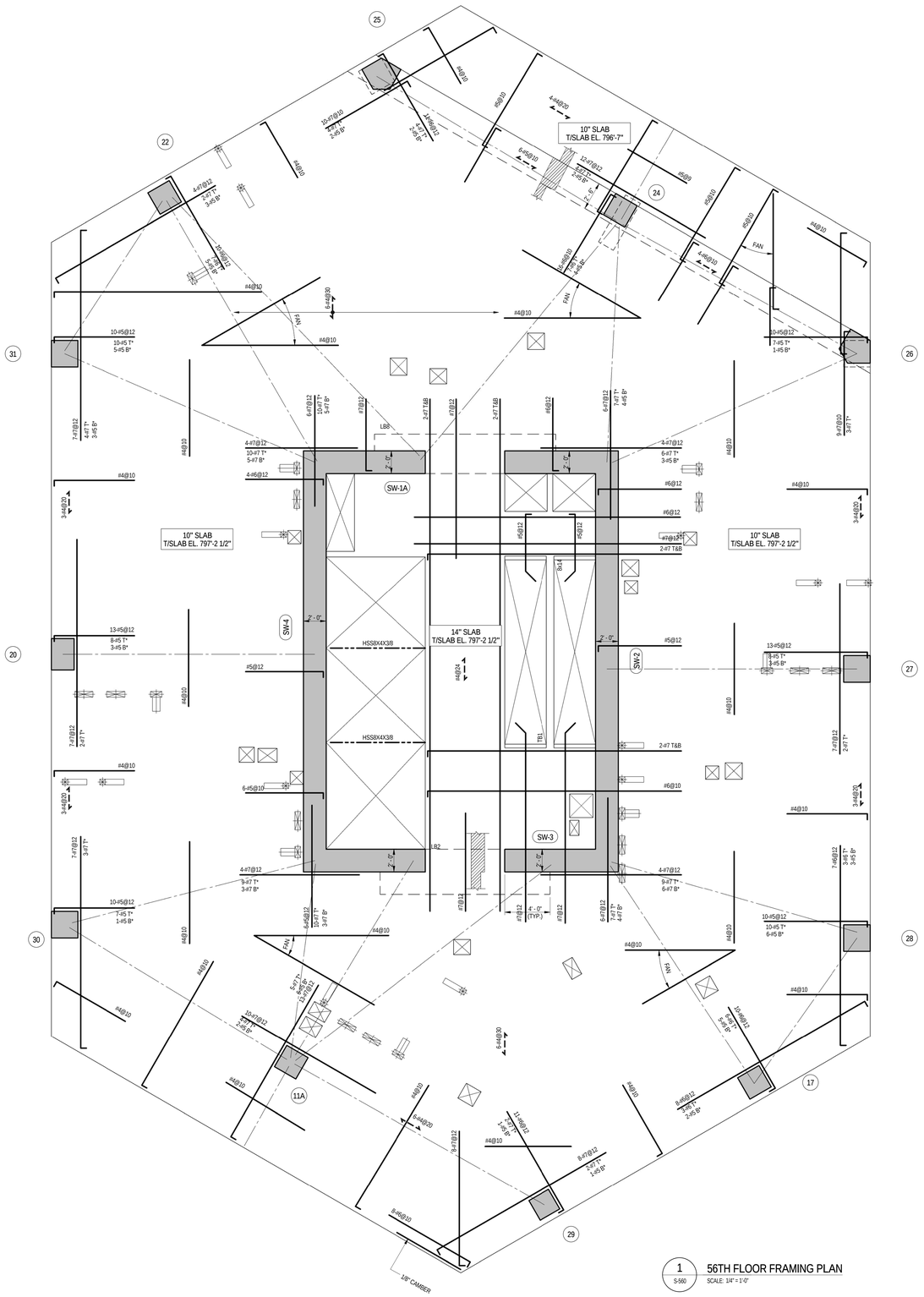
CITY OF NEW YORK SUSAN L. MARCUS LICENSED PROFESSIONAL ENGINEER 051135

DATE	03/13/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-520.00

2/13/2015 9:23:14 AM

DEPT OF BLDGS 320243538 Job Number

E304560743 Scan Code



1 S-560 **56TH FLOOR FRAMING PLAN**

SCALE: 1/4" = 1'-0"

NOTES:

1. TOP OF SLAB ELEVATION TO BE 797'-2 1/2" U.O.N. ON PLAN THUS [ ]
2. SLAB TO BE 12" THICK U.O.N. ON PLAN THUS [ ]
3. BOTTOM MESH REINFORCEMENT TO BE:#5@10 E.W. CONT. FOR 12" & 16" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
30 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 48TH STREET
NEW YORK, NY 10017
tel 212.267.8808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 54TH STREET 8TH FLOOR
NEW YORK, NY 10019
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9658

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

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LIGHTING
BOLD
237 WEST 26TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2922

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
950 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5369

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.3926

Lorenzo TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
324 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4760

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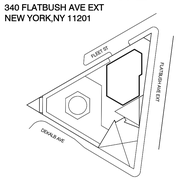
340 FLATBUSH AVE EXT
NEW YORK,NY 11201



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DRAWING TITLE

56TH FLOOR FRAMING PLAN

SEAL & SIGNATURE

STATE OF NEW YORK — BRIAN L. MARCH — 057135 — LICENSED PROFESSIONAL ENGINEER

DATE	03/02/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	

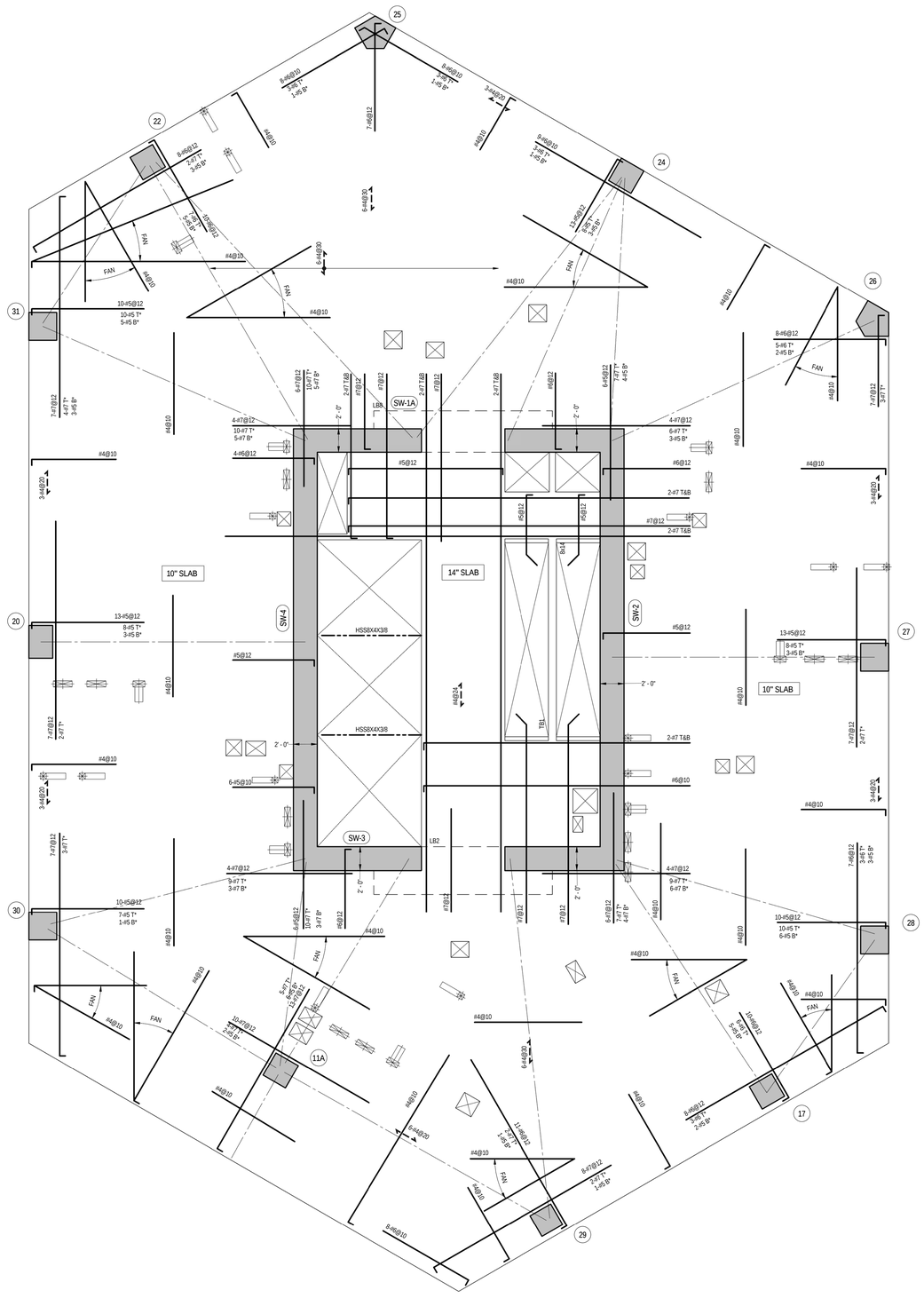
DRAWING NUMBER

S-560.00

7/15/2015 2:57:56 PM

DEPT OF BLDGS 320243338 Job Number

B3700176388 Scan Code



1 S-570 57TH-60TH FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0"

NOTES:

1. TOP OF SLAB ELEVATION TO BE
   57TH FLOOR 809'-2 1/2"
   58TH FLOOR 821'-2 1/2"
   59TH FLOOR 833'-2 1/2"
   60TH FLOOR 845'-2 1/2"
   U.O.N. ON PLAN THUS
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 E.W. CONT. FOR 10" SLAB. #5@12 E.W. CONT. FOR 14" SLAB.
4. FOR BALANCE OF INFORMATION SEE DWG. S-010.
5. * INDICATES REBARS FOR WIND FORCES.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.887.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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EAST HANOVER, NJ 07936
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THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

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HISTORIC PRESERVATION
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tel 212.315.6400

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196 JAMES STREET
HACKENSACK, NJ 07601
tel 201.820.2922

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7000

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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
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tel 914.485.4700

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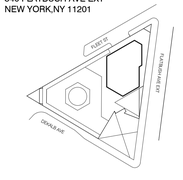

SITE DIAGRAM

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DRAWING TITLE

57TH-60TH FLOOR FRAMING PLAN

SEAL & SIGNATURE

STATE OF NEW YORK — BRIAN L. RANDOLPH — 092139 — LICENSED PROFESSIONAL ENGINEER

DATE	06/27/16
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-570.00

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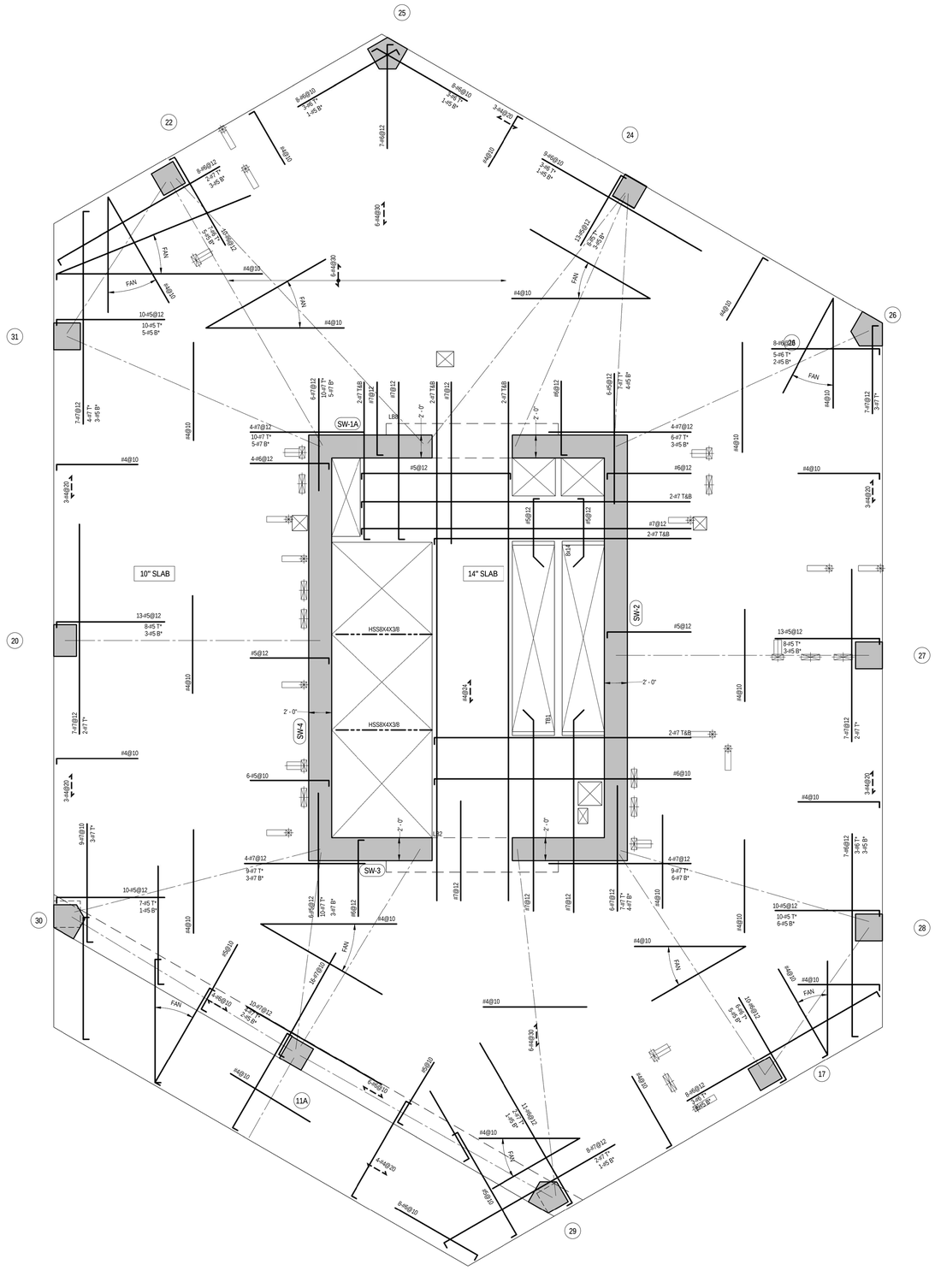
DEPT OF BLDGS 320014336 Job Number
E395452333TF Scan Code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22
24
31
26
28
20
27
30
17
11A
29
SW-1A
SW-2
SW-3
SW-4
10" SLAB
14" SLAB
HSS8X4X3/8
HSS8X4X3/8
TB1
8x14
L88
2' - 0"
FAN
#4@10
#5@12
#6@12
#7@12
2-#7 T&B
13-#5@12
8-#5 T*
3-#5 B*
10-#5@12
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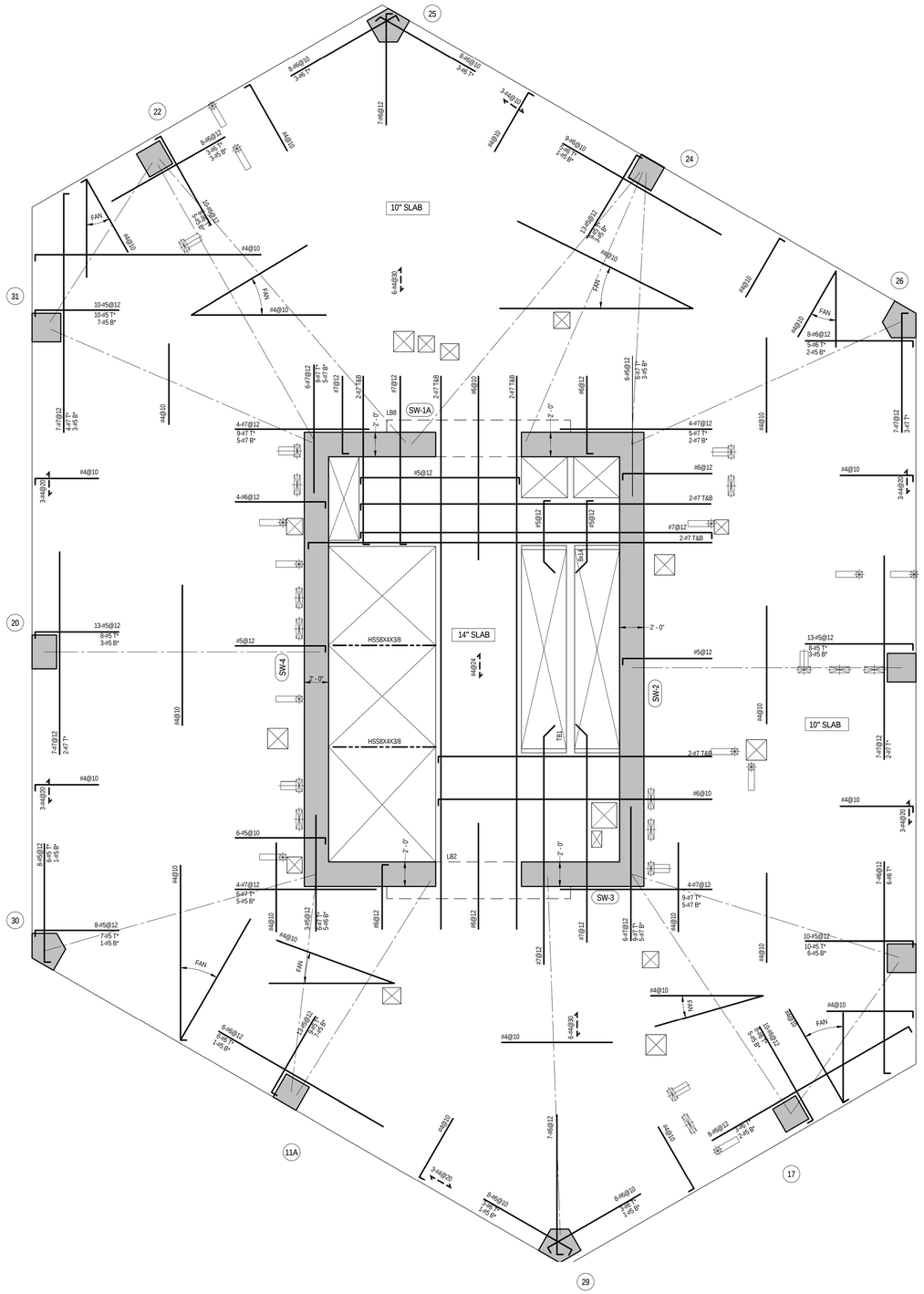


1 / S-620 62ND-64TH FRAMING PLAN

SCALE: 1/4" = 1'-0"

NOTES:

1. TOP OF SLAB ELEVATION TO BE
   62ND FLOOR 869'-2 1/2"
   63RD FLOOR 881'-2 1/2"
   64TH FLOOR 893'-2 1/2"
   U.O.N. ON PLAN THUS:
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 E.W. CONT. FOR 10" SLAB. #5@12 E.W. CONT. FOR 14" SLAB.
4. * INDICATES REBARS FOR WIND FORCES.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 11TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES ARCHITECTURE PRESERVATION

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

BOLD

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
136 JAMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
260 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

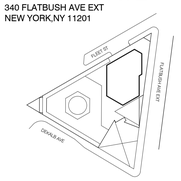
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lorenzo TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4090

9 DEKALB AVE

340 FLATBUSH AVE EXT
NEW YORK,NY 11201



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		1	07/13/2016	DOB FILING SET

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62ND-64TH FRAMING PLAN

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STATE OF NEW YORK — SUSAN L. MARCUS — 057135 — LICENSED PROFESSIONAL ENGINEER

DATE	06/27/16
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-620.00

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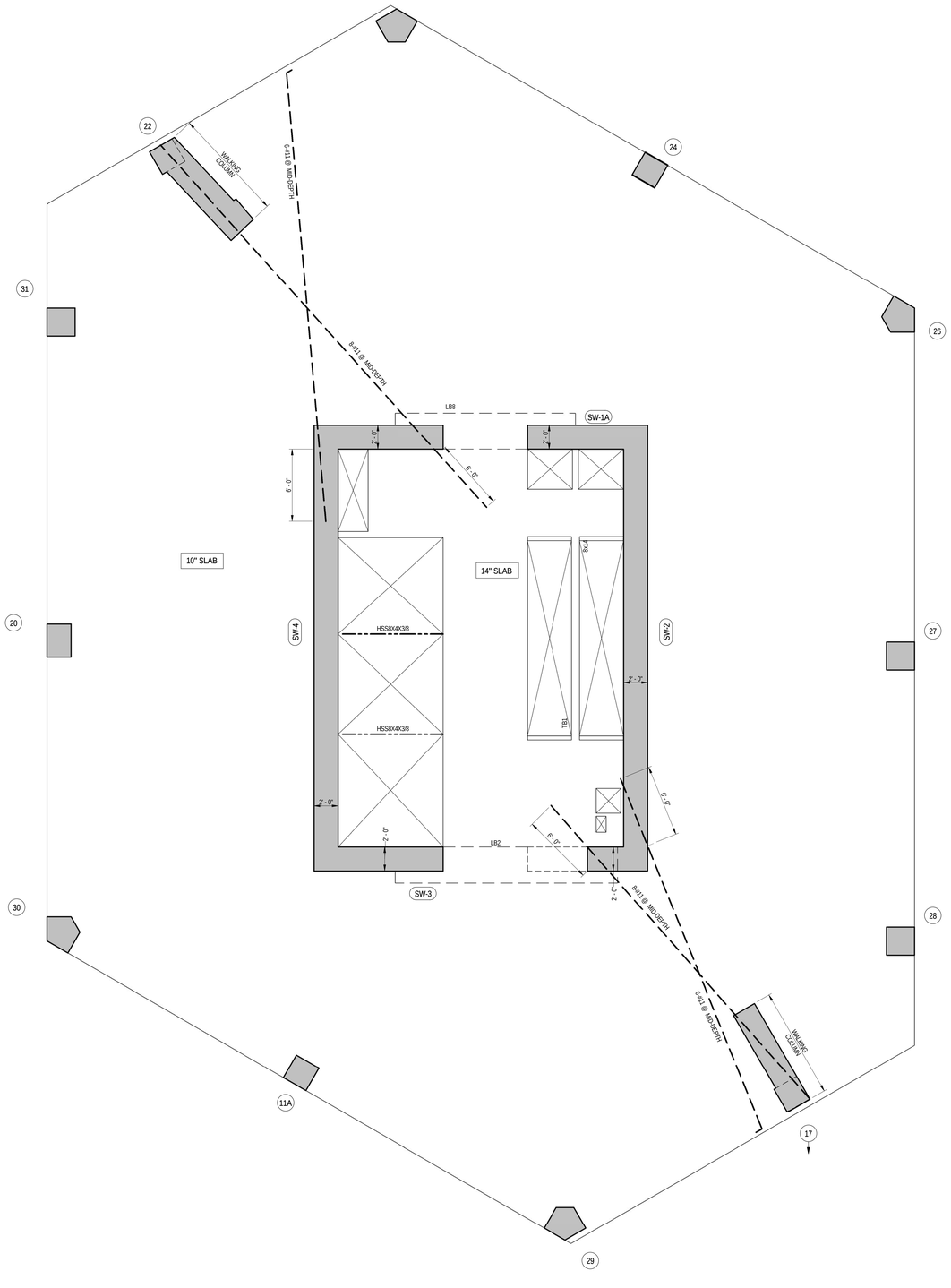

FOR BALANCE OF REINFORCEMENT REFER TO S-620

1 S-650 **65TH FLOOR FRAMING PLAN (WIND FLOOR)**

SCALE: 1/4" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE 935'-5" U.O.N. ON PLAN THUS
2. SLAB TO BE 12" THICK U.O.N. ON PLAN THUS
3. BOTTOM MESH REINFORCEMENT TO BE #5@10 E.W. CONT. FOR 12" & 16" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889-9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
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EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212 759-8140

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237 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2922

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SIMPSON GUMPERTZ & HEGER
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BURO HAPPOLD
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TRACE POOL DESIGN

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WHITE PLAINS, NY 10604
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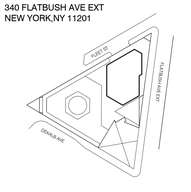

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65TH FLOOR FRAMING PLAN

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STATE OF NEW YORK — BRIAN L. MARCH — 025139 — LICENSED PROFESSIONAL ENGINEER

DATE	03/02/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-650.00

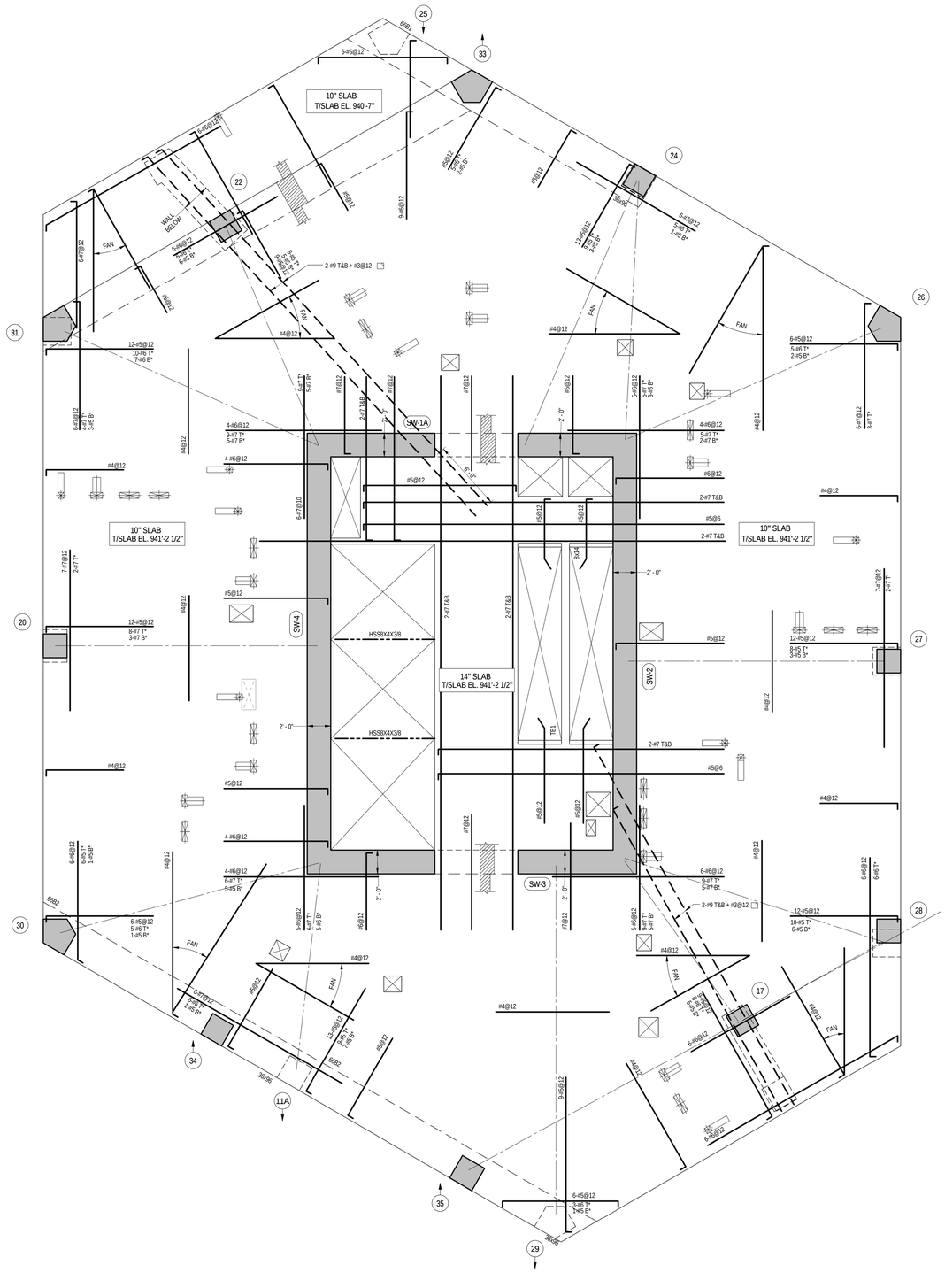
Plot date: 7/15/2015

DEPT OF BLDGS 300243536 Job Number
E300069235 Scan Code

66TH FLOOR BEAM SCHEDULE

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT			STIRRUPS			REMARKS
		BOTTOM CONTINUOUS	TOP CONTINUOUS	TOP ADD'L BARS AT SUPPORT	TYPE	SIZE	SPACING	
66B1	36x96	18-#11	9-#9		3	#6	@8	
66B2	36x96	18-#11	9-#9	18-#11	3	#6	@8	

TYPE 3
STIRRUP TYPES



1 S-660 **66TH FLOOR FRAMING PLAN**

SCALE: 1/4" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE 941'-2 1/2". U.O.N. ON PLAN THUS
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 (E.W.) CONT. FOR 10" SLAB. #5@12 (E.W.) CONT. FOR 14" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.887.8808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

BOLD

LIGHTING
BOLD
237 WEST 26TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
196 JAMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7500

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BURO HAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lazzino TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
330 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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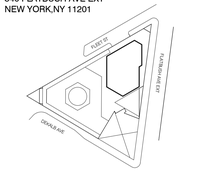
340 FLATBUSH AVE EXT
NEW YORK,NY 11201



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66TH FLOOR FRAMING PLAN

SEAL & SIGNATURE

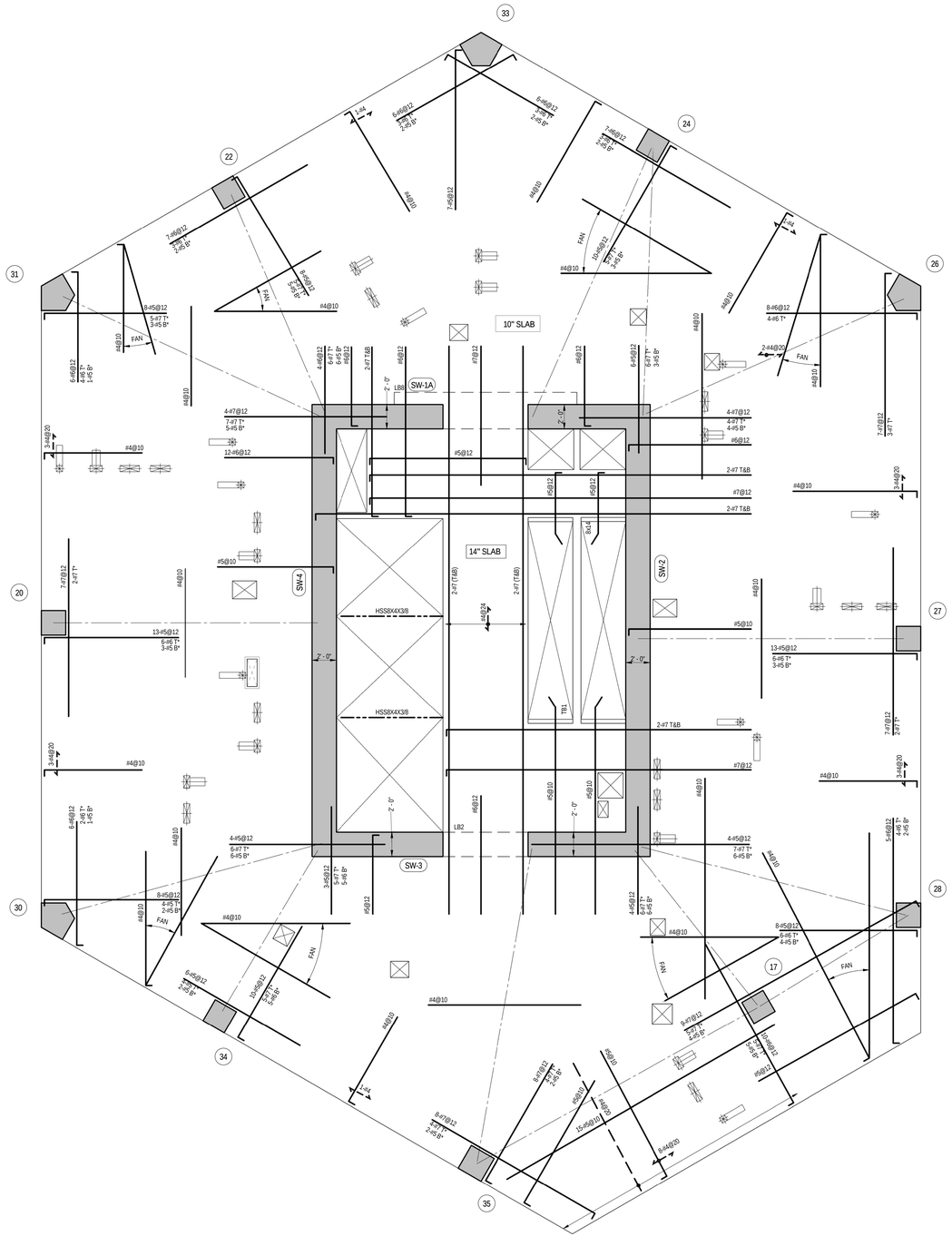
STATE OF NEW YORK — JOSEPH L. RUSSO, JR. — 057135 — LICENSED PROFESSIONAL ENGINEER

DATE	03/02/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-660.00

PM 12:47:15 3/16/2015

DEPT OF BLDGS 320014336 Job Number

B 3000000080 Scan Code



1 S-670 **67TH-69TH FLOOR FRAMING PLAN**

SCALE: 1/4" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE
67TH FLOOR 953'-2 1/2"
68TH FLOOR 965'-2 1/2"
69TH FLOOR 977'-2 1/2"
U.O.N. ON PLAN THUS
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 (E.W.) CONT. FOR 10" SLAB.
#5@12 (E.W.) CONT. FOR 14" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 13TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DELUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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tel 646.666.0848

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HISTORIC PRESERVATION
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NEW YORK, NY 10018
tel 212.759-8140

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227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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tel 212.315.6400

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HACKENSACK, NJ 07601
tel 201.820.2900

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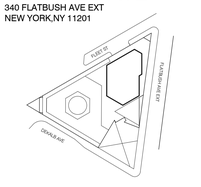

SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
		1	2017/3/2016	DOB FILING SET

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DRAWING TITLE

67TH-69TH FLOOR FRAMING PLAN

SEAL & SIGNATURE

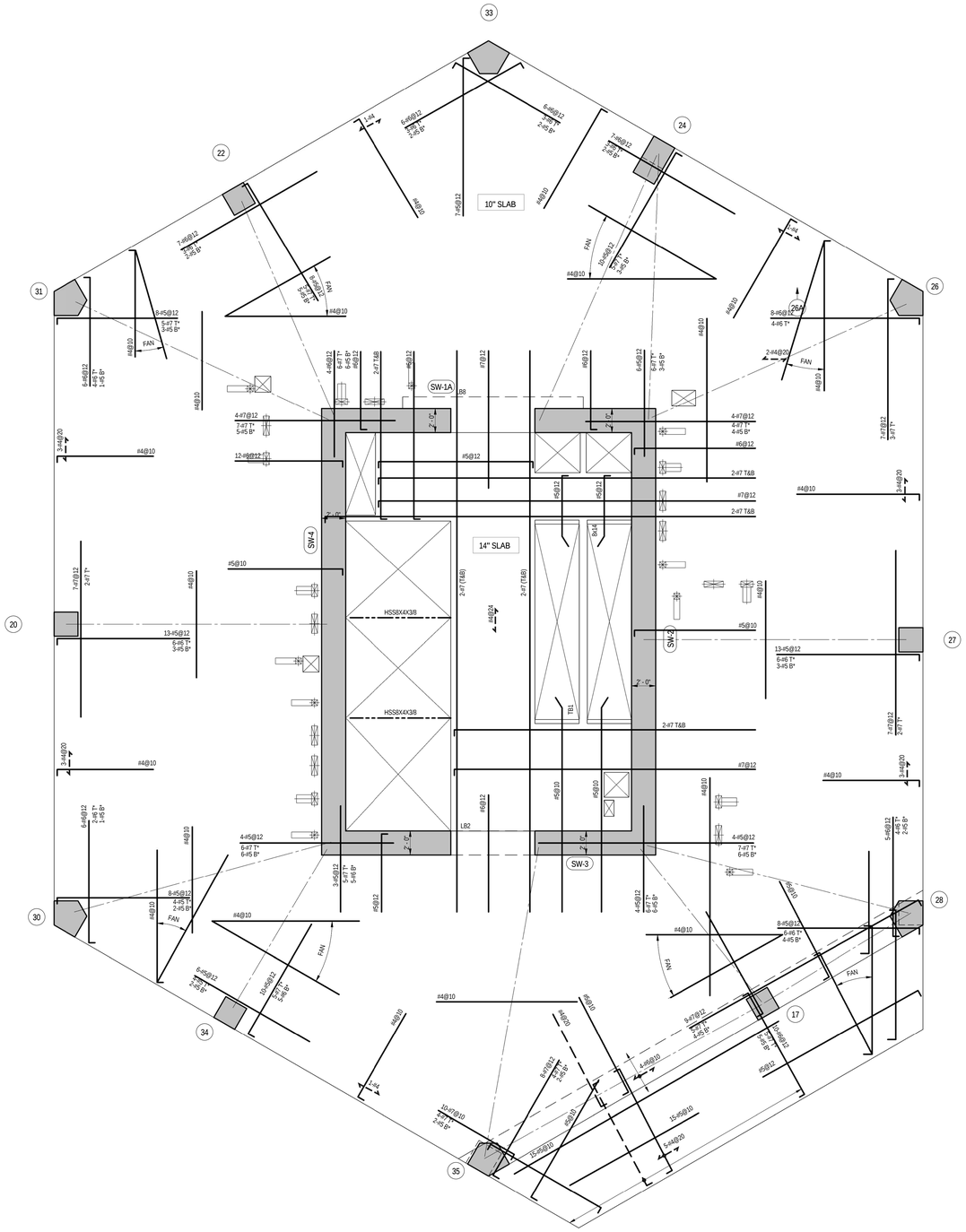
STATE OF NEW YORK — JUSTIN L. WARNER — 057139 — LICENSED PROFESSIONAL ENGINEER

DATE	06/27/16
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-670.00

3/16/2016 3:30:27 PM

DEPT OF BLDGS 320014338 Job Number

E1560320180 Scan Code



1 S-700 70TH FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0"

NOTES:

1. TOP OF SLAB ELEVATION TO BE 989'-2 1/2" U.O.N. ON PLAN THUS
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 E.W. CONT. FOR 10" SLAB. #5@10 E.W. CONT. FOR 14" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
30 PINE STREET, 17TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.267.8808

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GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.759.6540

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tel 212.674.6500

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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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VIDARIS
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NEW YORK, NY 10010
tel 212.688.5389

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NEW YORK, NY 10005
tel 212.334.3325

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WHITE PLAINS, NY 10604
tel 914.495.4090

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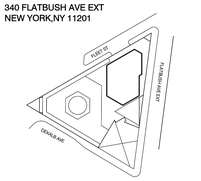

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NO.	DATE	REVISION
1	2015/10/16	DOB FILING SET

DATE ISSUE

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DRAWING TITLE

70TH FLOOR FRAMING PLAN

SEAL & SIGNATURE

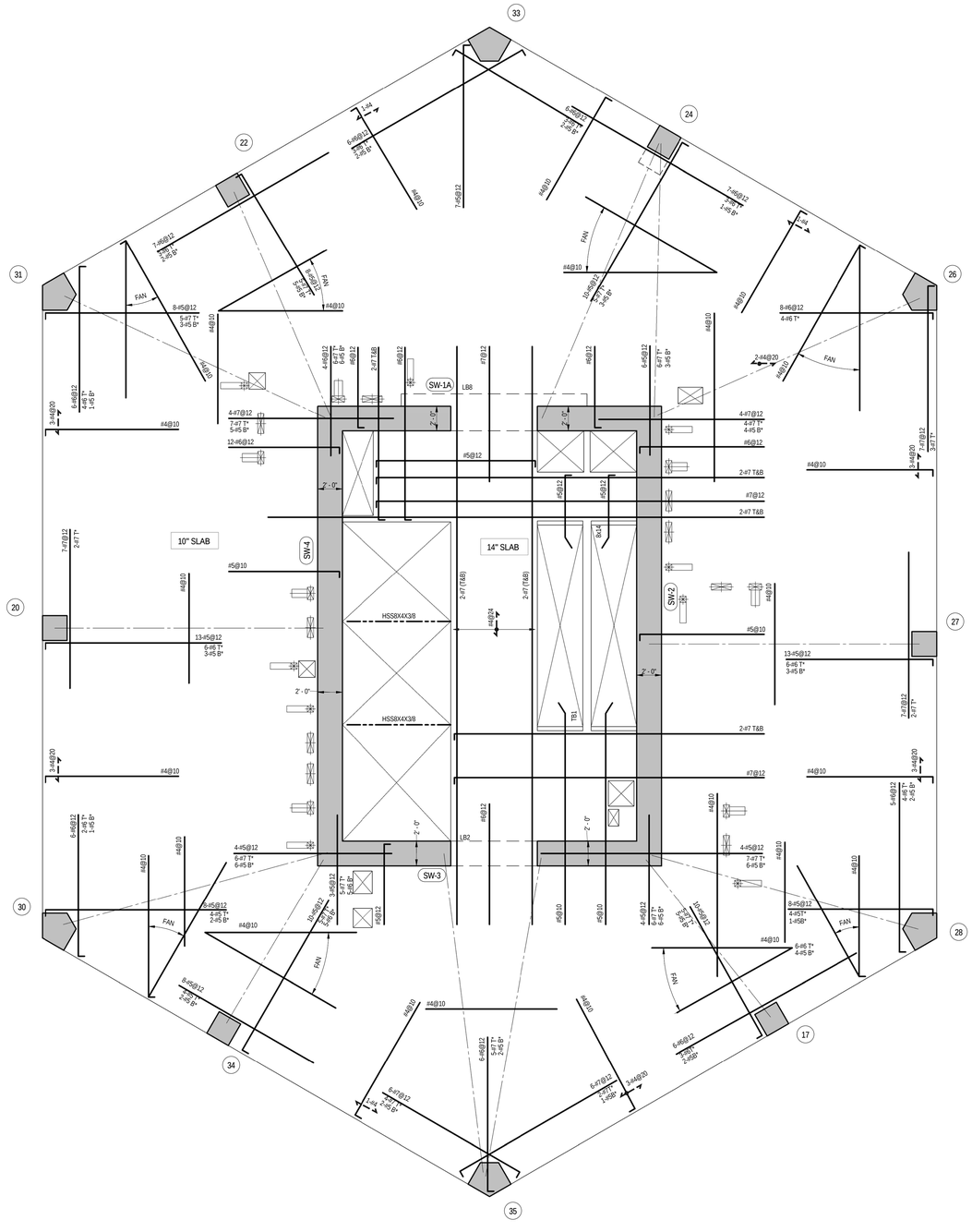
STATE OF NEW YORK — JUSTIN L. REDDER — LICENSED PROFESSIONAL ENGINEER — 057137

DATE	03/12/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-700.00

PM 10/16/2015 3:38:57

DEPT OF BLDGS 320014336 Job Number

B1800369130 Scan Code



1 S-710 **71ST FLOOR FRAMING PLAN**

SCALE: 1/4" = 1'-0"

NOTES:

1. TOP OF SLAB ELEVATION TO BE 1001'-2 1/2" U.O.N. ON PLAN THUS
2. SLAB TO BE 12" THICK U.O.N. ON PLAN THUS
3. BOTTOM MESH REINFORCEMENT TO BE:#5@10 E.W. CONT. FOR 12" & 16" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889-9005

JAROS, BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 13TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-9540

BOLD

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
590 SEVENTH AVENUE, 16TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.686.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

TRACE POOL DESIGN

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WHITE PLAINS, NY 10604
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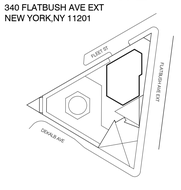

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1	07/15/2016 DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

71ST FLOOR FRAMING PLAN

SEAL & SIGNATURE

STATE OF NEW YORK — BRIAN L. MARCHIS — LICENSED PROFESSIONAL ENGINEER

DATE	03/12/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-710.00

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DEPT OF BUILDINGS 320014338 Job Number

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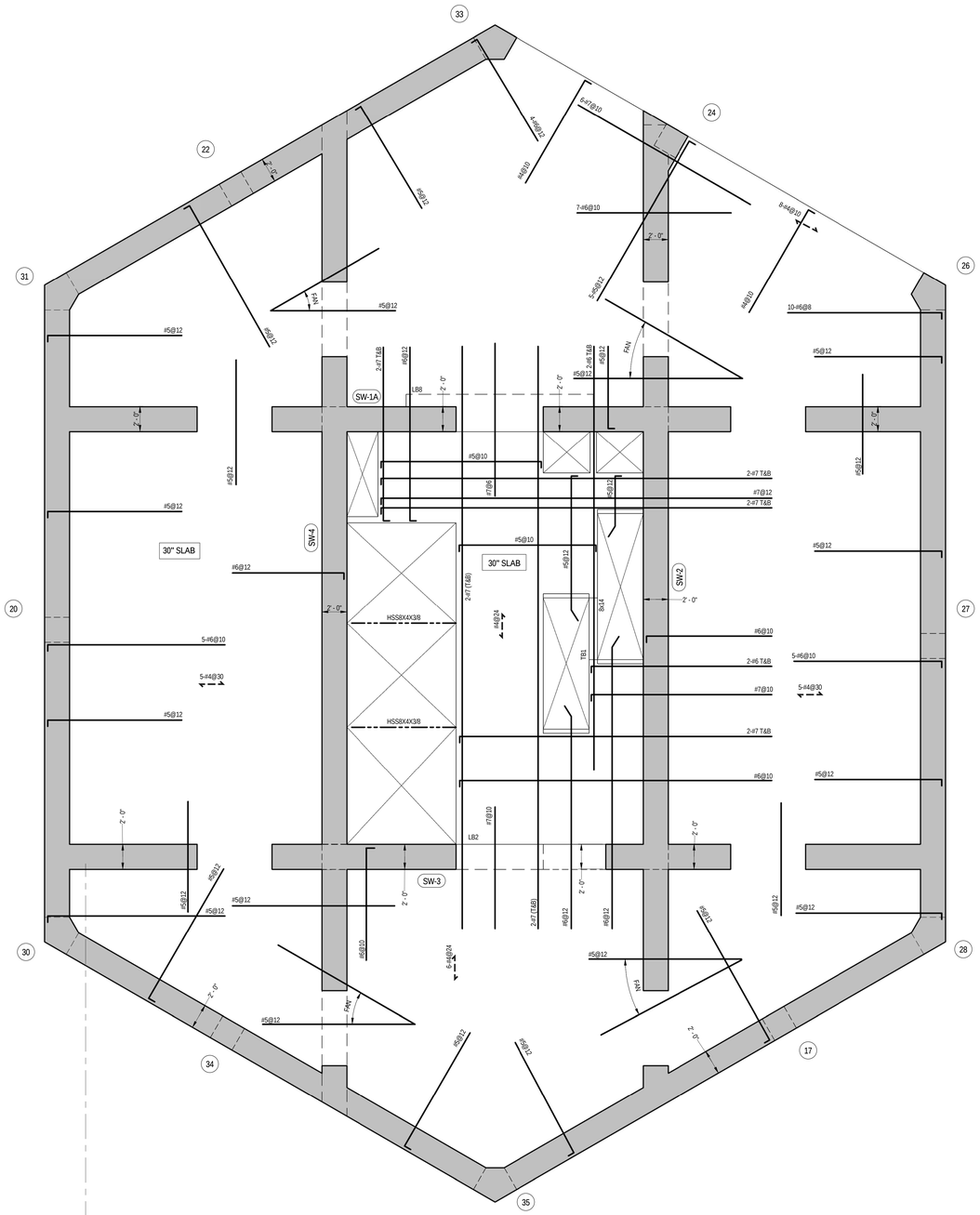

1 / S-720 — 72ND FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0"

NOTES:

1. TOP OF SLAB ELEVATION TO BE 1015'-5" U.O.N. ON PLAN THUS
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS
3. BOTTOM MESH REINFORCEMENT TO BE: #4@10 (E.W.) CONT. FOR 10" SLAB.
   #5@12 (E.W.) CONT. FOR 14" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
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NEW YORK, NY 10011
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ARCHITECT
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NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.887.9888

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GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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GACHOT
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NEW YORK, NY 10012
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tel 212.674.6500

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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINEERING
196 JAMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
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VIDARIS
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NEW YORK, NY 10010
tel 212.689.5389

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NEW YORK, NY 10005
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tel 914.495.4090

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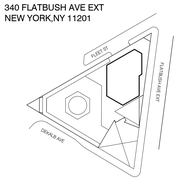

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		1	07/15/2016	DOB FILING SET

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DRAWING TITLE

72ND FLOOR FRAMING PLAN

SEAL & SIGNATURE

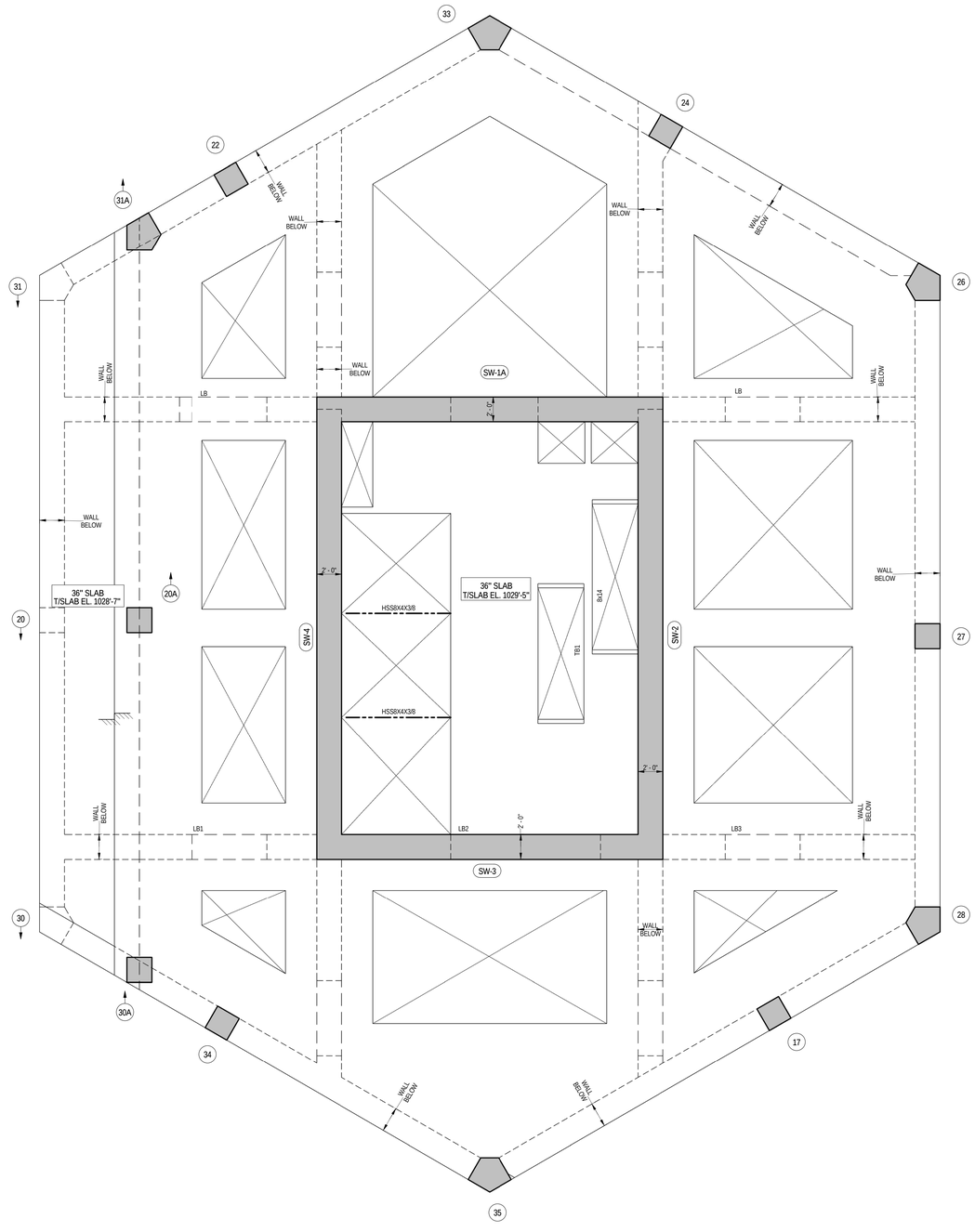
STATE OF NEW YORK — SUSAN L. MACKIE — 057137 — LICENSED PROFESSIONAL ENGINEER

DATE	03/02/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-720.00

Plot date: 07/15/2016

DEPT OF BLDGS 320243536 Job Number

B340899205 Scan Code



1 / S-730 — 72ND +16'-0" FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE 1029'-5" U.O.N. ON PLAN THUS
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS
3. TOP & BOTTOM REINFORCEMENT TO BE: #7@9 E.W. CONT. FOR 36" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

GEOTECHNICAL ENGINEER
MRCE
250 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

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JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-9140

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2922

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NEW YORK, NY 10018
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BURO HAPPOLD
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NEW YORK, NY 10005
tel 212.334.2025

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TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4290

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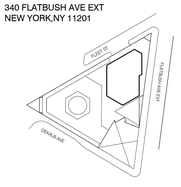

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DRAWING TITLE

72ND +16'-0" FLOOR FRAMING PLAN

SEAL & SIGNATURE

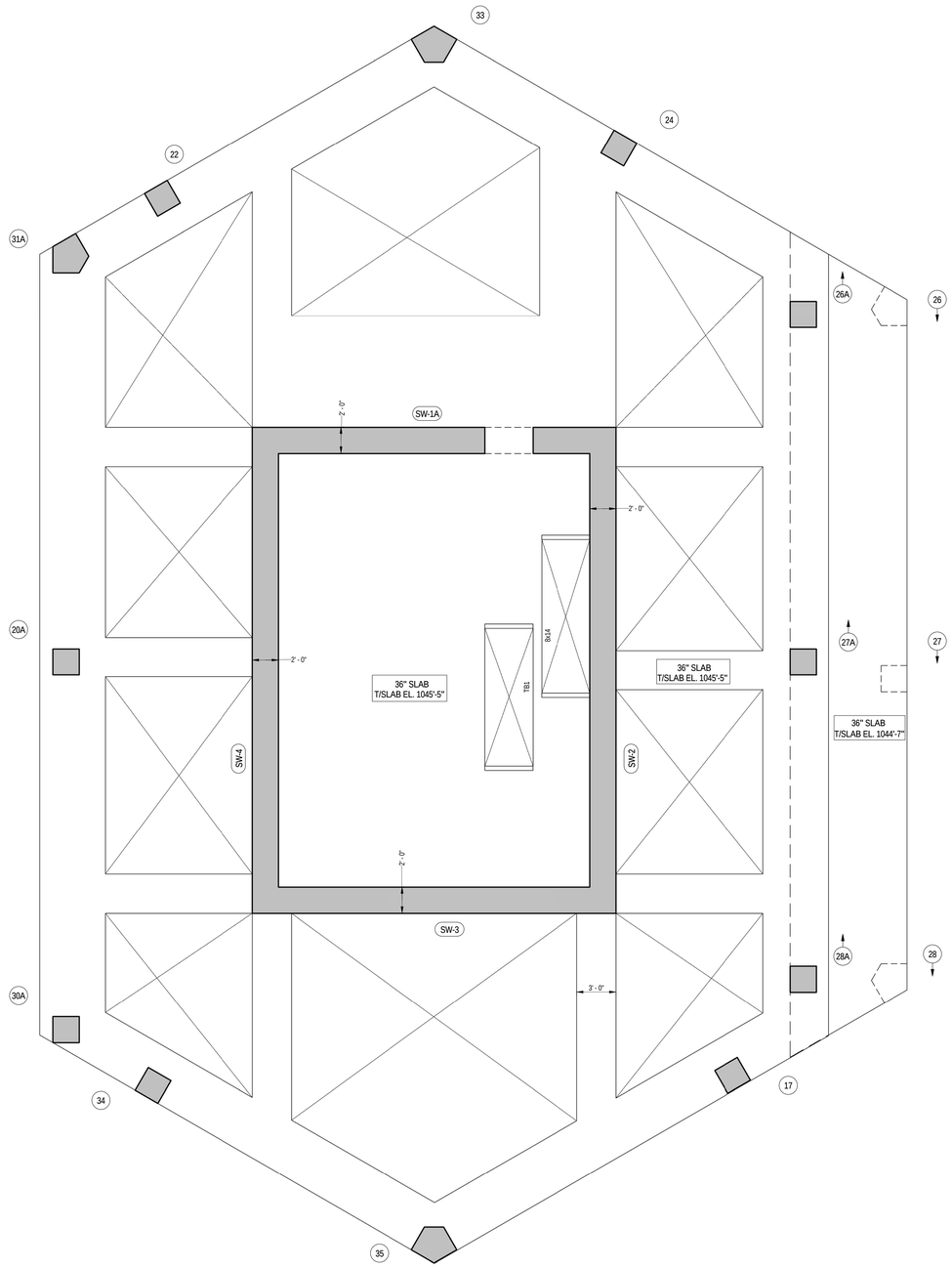
LICENSED TO PRACTICE IN NEW YORK STATE — STEVEN L. WALKER — 28/1/16

DATE	03/12/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-730.00

Plot Date: 5/4/2018

DEPT OF BLDGS 320243336 Job Number

E1516561295 Scan Code



1 / S-740 — 72ND +32-0" FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0"

NOTES:

1. TOP OF SLAB ELEVATION TO BE 1045'-5" U.O.N. ON PLAN THUS [ ]
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS [ ]
3. TOP & BOTTOM REINFORCEMENT TO BE: #7@9 E.W. CONT. FOR 36" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 11TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

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GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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THORNTON TOMASETTI
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NEW YORK, NY 10018
tel 212.315.6400

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196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

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VIDARIS
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NEW YORK, NY 10010
tel 212.686.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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333 WESTCHESTER AVENUE
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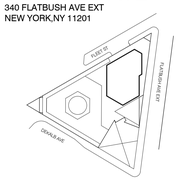

SITE DIAGRAM

NO.	DATE	REVISION
1	07/15/2016	DOB FILING SET

DATE ISSUE

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DRAWING TITLE

72ND +32-0" FLOOR FRAMING PLAN

SEAL & SIGNATURE

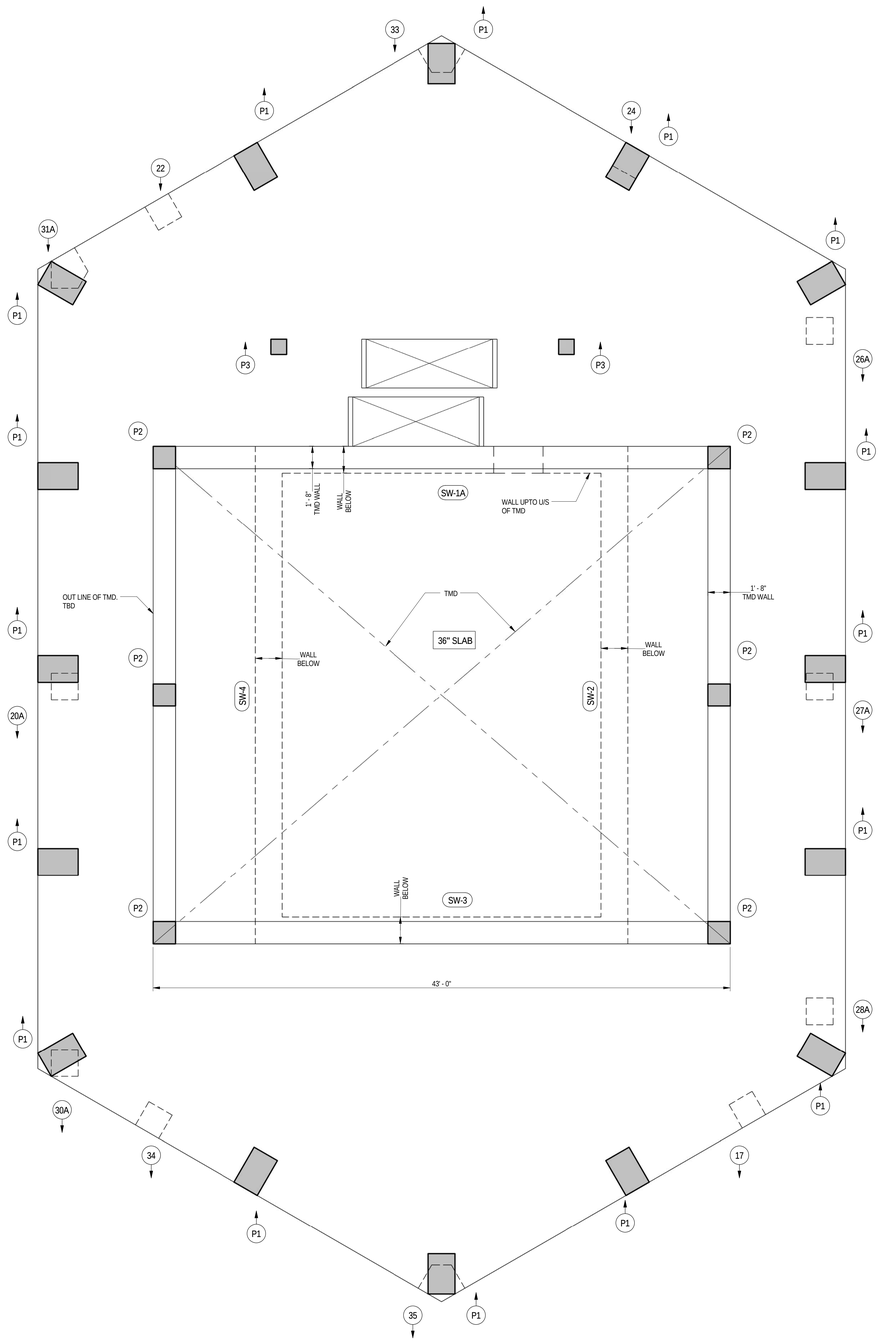
STATE OF NEW YORK — BRIAN L. MARCOS — LICENSED PROFESSIONAL ENGINEER

DATE	03/02/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-740.00

PLOT DATE: 7/15/2016

DEPT OF BLDGS 320014336 Job Number

X350553977 Scan Code



1 / S-750 ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE 1061'-5" U.O.N. ON PLAN THUS
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS
3. TOP & BOTTOM REINFORCEMENT TO BE: #7@9 E.W. CONT. FOR 36" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

P1 INDICATES CONCRETE POST 24x36 REINF. WITH 6-#11 E.F. (TYP)

P2 INDICATES CONCRETE POST 20x20 REINF. WITH #8 & #3@12

P3 INDICATES CONCRETE POST 14x14 REINF. WITH 4-#7@12

2 / S-750 BULKHEAD ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE 1070'-0" U.O.N. ON PLAN THUS
2. SLAB TO BE 10" THICK U.O.N. ON PLAN THUS
3. TOP & BOTTOM REINFORCEMENT TO BE: #5@12 E.W. CONT. FOR 10" SLAB.
4. * INDICATES REBARS FOR WIND FORCE.
5. FOR BALANCE OF INFORMATION SEE DWG. S-010.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
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EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6140

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227 WEST 29TH STREET
NEW YORK, NY 10001
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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

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ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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NEW YORK, NY 10010
tel 212.688.5389

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tel 914.485.4290

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BURO HAPPOLD
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NEW YORK, NY 10005
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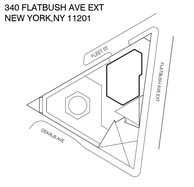

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DATE	ISSUE	NO.	DATE	REVISION
		1	2015/10/16	DOB FILING SET

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ROOF FRAMING PLAN

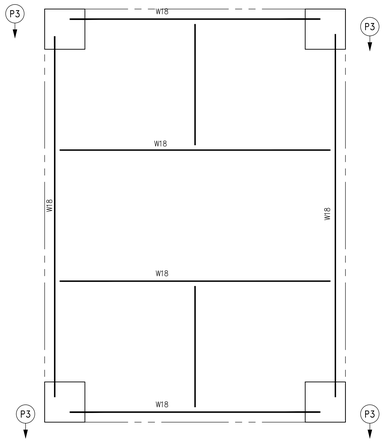
SEAL & SIGNATURE

STATE OF NEW YORK · STEVEN L. MAURICE · 091705 · LICENSED PROFESSIONAL ENGINEER

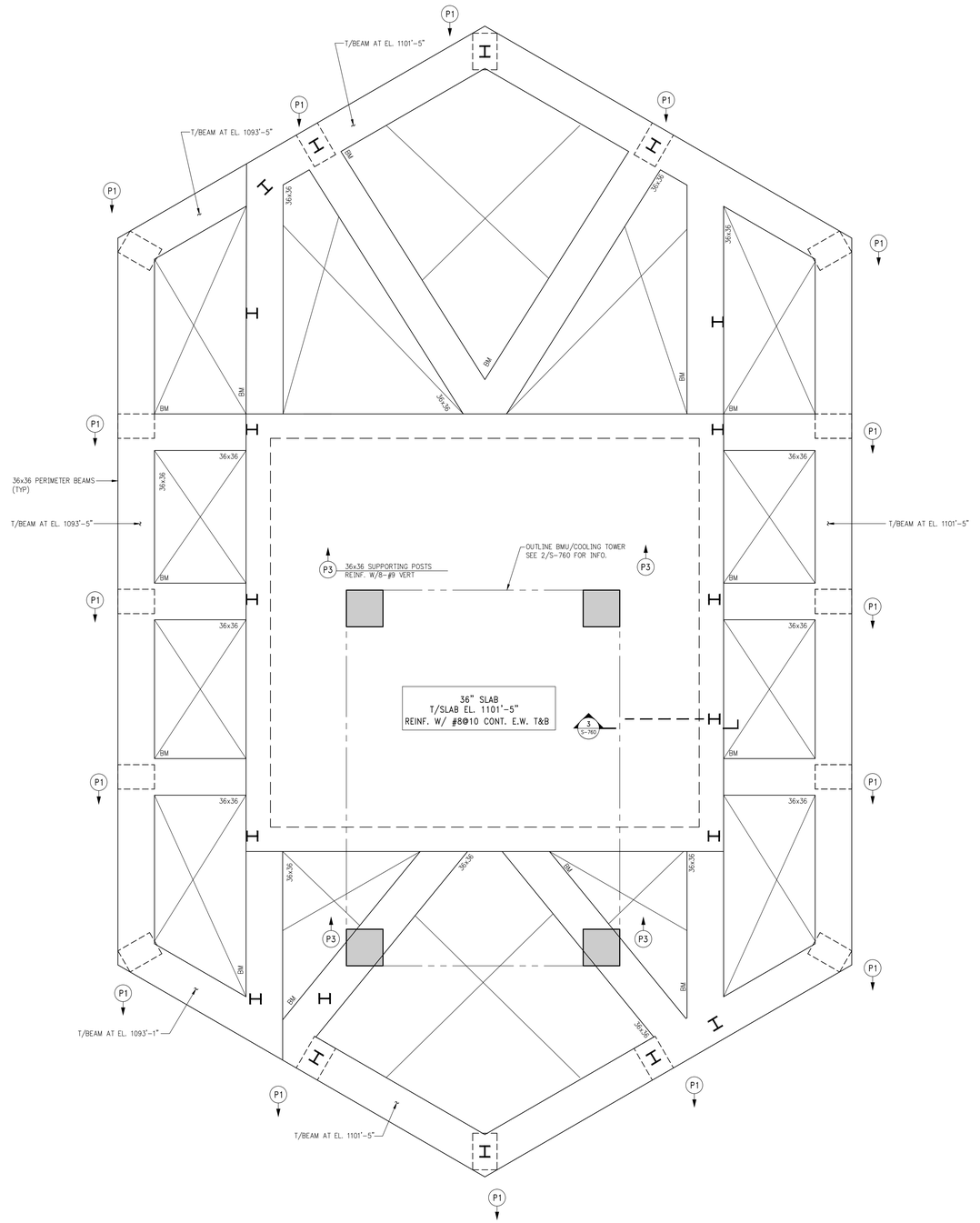
DATE	03/12/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-750.00

PLOT DATE: 10/16/2015

DEPT OF BUILDINGS 320024336 Job Number
B3990630075 Scan Code

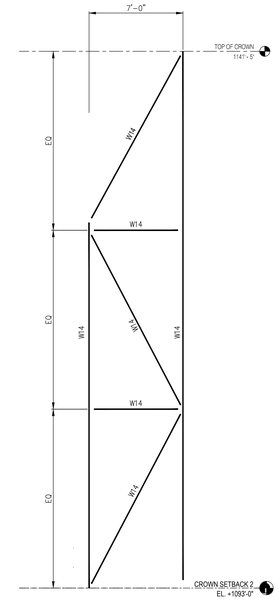


2 S-760 BMU/COOLING TOWER DUNNAGE PLAN
SCALE: 1/4"=1'-0"



1 S-760 BMU/COOLING TOWER FRAMING PLAN
SCALE: 1/4"=1'-0"

NOTES:
1. ALL 36x36 BEAMS TO BE REINF. WITH 3-#10 T&B CONT. WITH #4@10 TIES.



3 S-760 TRUSS ELEVATION
SCALE: 1/4"=1'-0"

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.6000

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 48TH STREET
NEW YORK, NY 10017
tel 212.887.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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NEW YORK, NY 10016
tel 646.388.9628

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 309
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6540

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NEW YORK, NY 10001
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NEW YORK, NY 10018
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NEW YORK, NY 10018
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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.966.5389

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100 BROADWAY
NEW YORK, NY 10005
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BMU/COOLING TOWERS FRAMING PLAN

SEAL & SIGNATURE

STATE OF NEW YORK SUSAN L. MARCUS 091178 LICENSED PROFESSIONAL ENGINEER

DATE	04/21/16
PROJECT NO.	1490086
DRAWN BY	CADD
CHECKED BY	SH
DOB NO.	DOB NO.

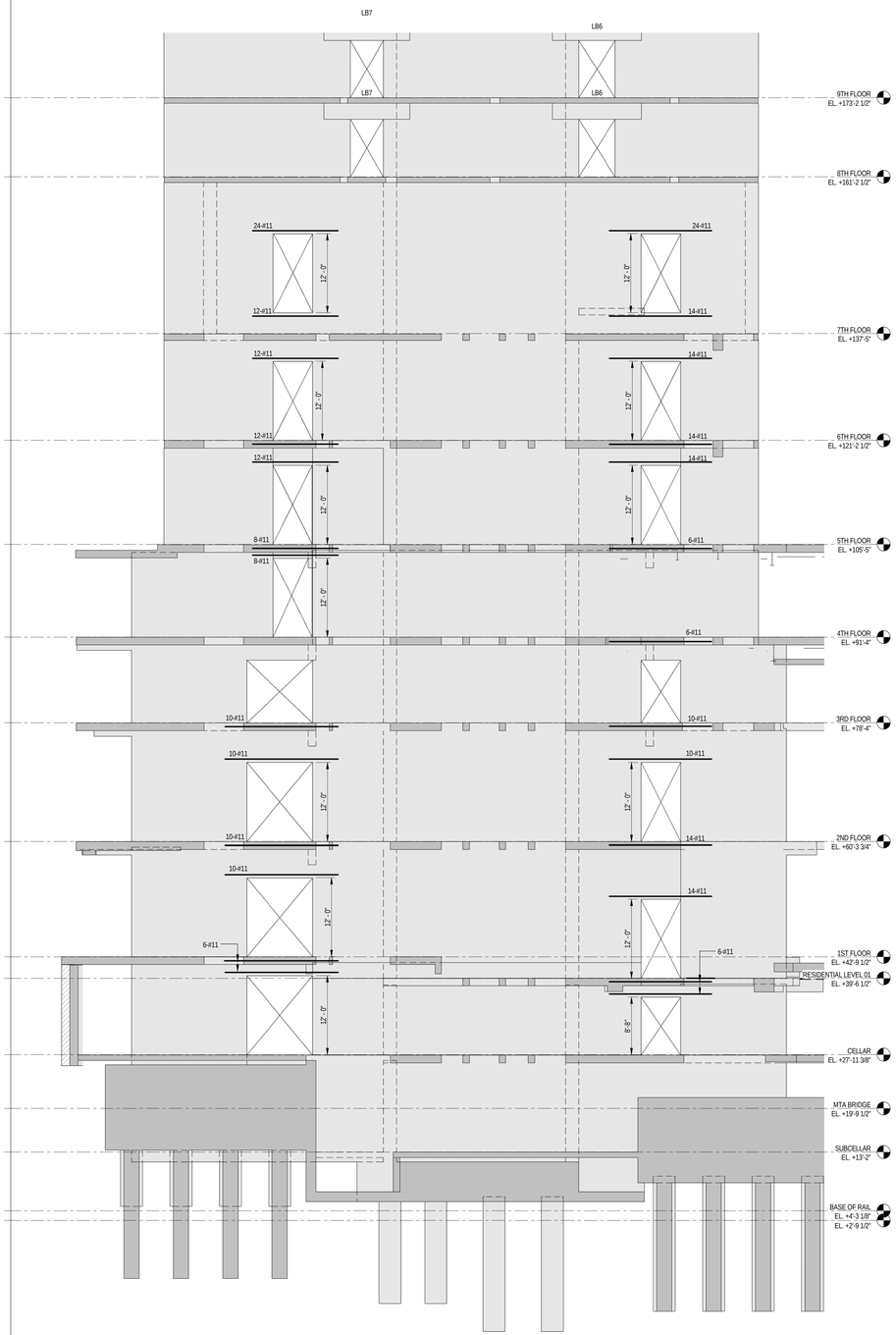
DRAWING NUMBER

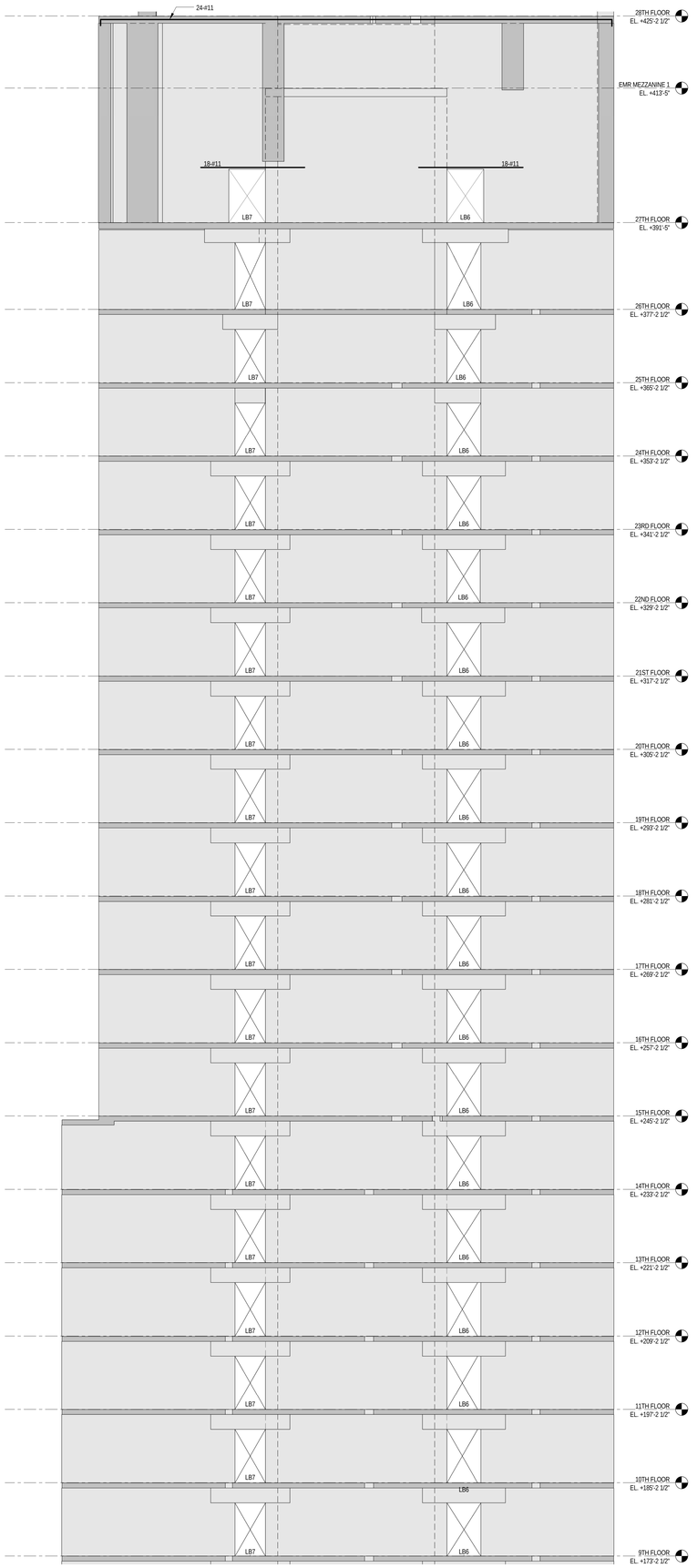
S-760.00

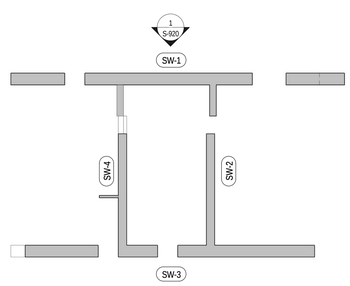
01 January 2000

DEPT OF BUILDINGS 320014338 Job Number

B1904126388B Scan Code







3 S-920 KEY PLAN
SCALE: 1/16" = 1'-0"

1 S-920 SHEARWALL SW1 ELEVATION - LOOKING SOUTH
SCALE: 1/8" = 1'-0"

NOTES:
1. REINFORCEMENT SHOWN ON SHEARWALL ELEVATIONS IN ADDITION TO REINFORCEMENT SHOWN ON SHEARWALL REINFORCEMENT PLANS S-940 SERIES DRAWINGS.
2. " * " INDICATES REINFORCEMENT SHOWN ON NELEVATIONS IS TO BE USED IN LIEU OF REINFORCEMENT SHOWN ON PLANS.
3. SEE DWGS. S-946 FOR LINK BEAM SCHEDULE.
4. SEE DWG S-945 FOR TPYICAL SHEARWALL DETAILS.
5. FOR STIRRUP TYPES SEE TYPICAL DETAILS.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 13TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 48TH STREET
NEW YORK, NY 10017
tel 212.887.8808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.759-8140

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NEW YORK, NY 10001
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LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
186 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7000

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VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
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NEW YORK, NY 10005
tel 212.334.2025

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WHITE PLAINS, NY 10604
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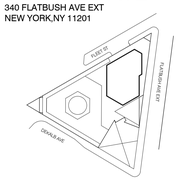

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DRAWING TITLE

SHEARWALL SW1 ELEVATION

SEAL & SIGNATURE

STATE OF NEW YORK JULIAN L. MARCUS 057135 LICENSED PROFESSIONAL ENGINEER

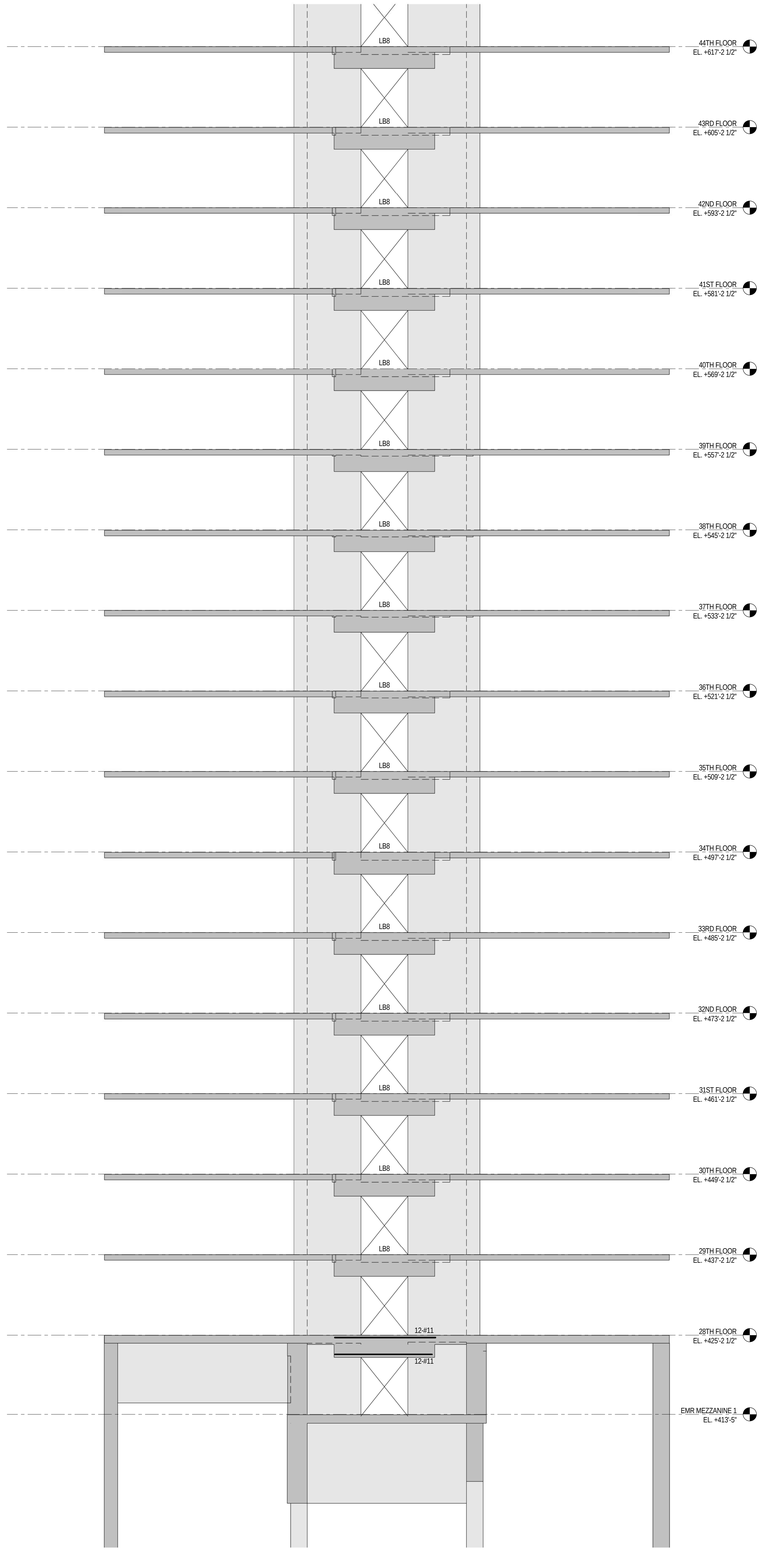
DATE	03/13/15
PROJECT NO.	14900086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	

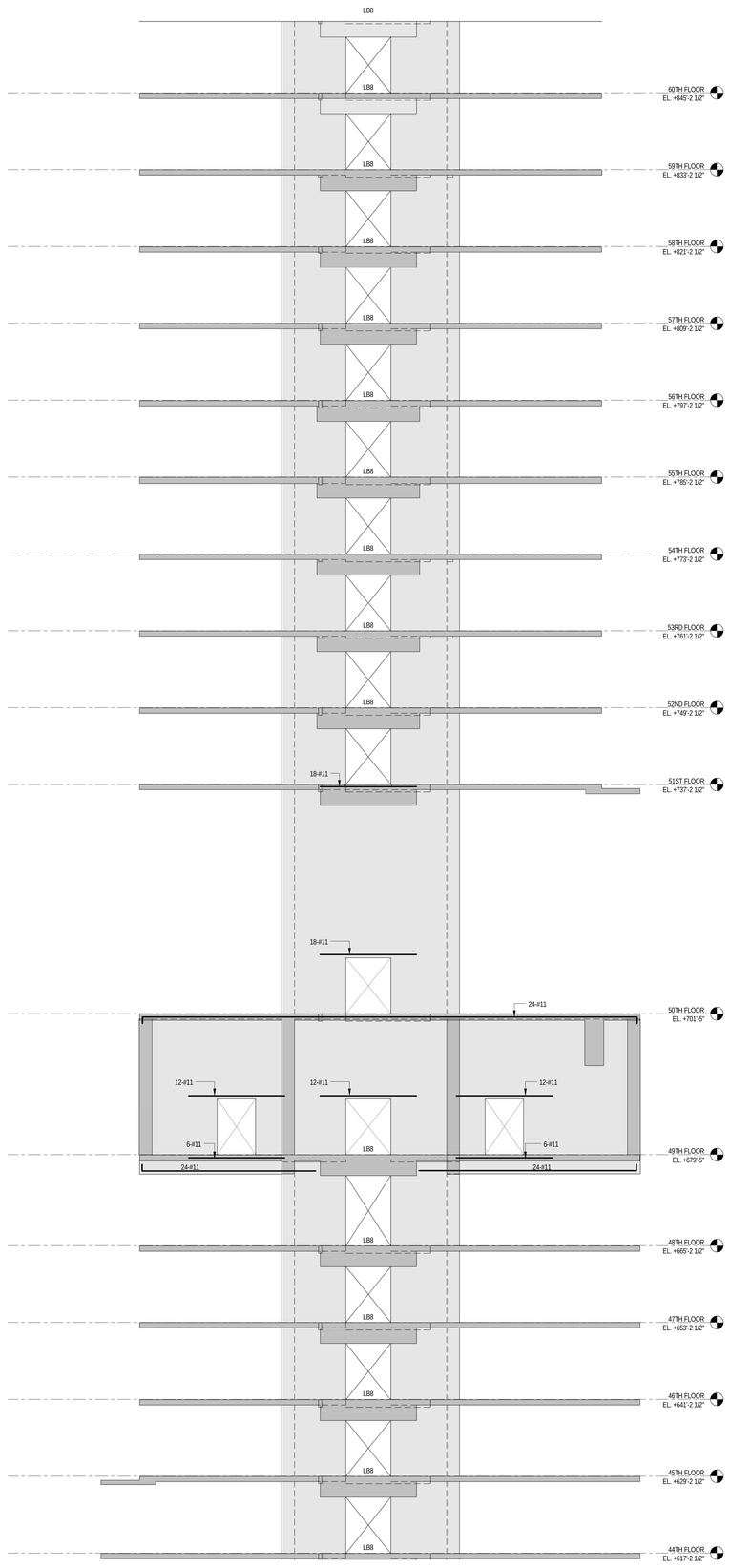
DRAWING NUMBER

S-920.00

PM 6:01:47 7/15/2016

DEPT OF BLDGS 320014336 Job Number
E344620979 Scan Code



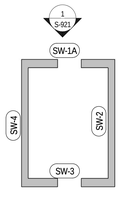


1 / S-921 SHEARWALL SW1A ELEVATION LOOKING SOUTH

SCALE: 1/8" = 1'-0"

NOTES:

1. FOR NOTES SEE DRAWING S-920.



3 / S-921 KEY PLAN

SCALE: 1/16" = 1'-0"

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 13TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
250 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
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NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DELUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212 759 6540

BOLD

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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NEW YORK, NY 10005
tel 212.334.2025

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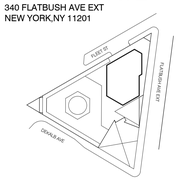
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

9 DEKALB AVE

340 FLATBUSH AVE EXT
NEW YORK,NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
		1	07/15/2016	DOB FILING SET

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DRAWING TITLE

SHEARWALL SW1A ELEVATION 1

SEAL & SIGNATURE

DATE	03/13/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	

DRAWING NUMBER

S-921.00

7/19/2016 2:39:20 PM

DEPT OF BLDGS 320014336 Job Number

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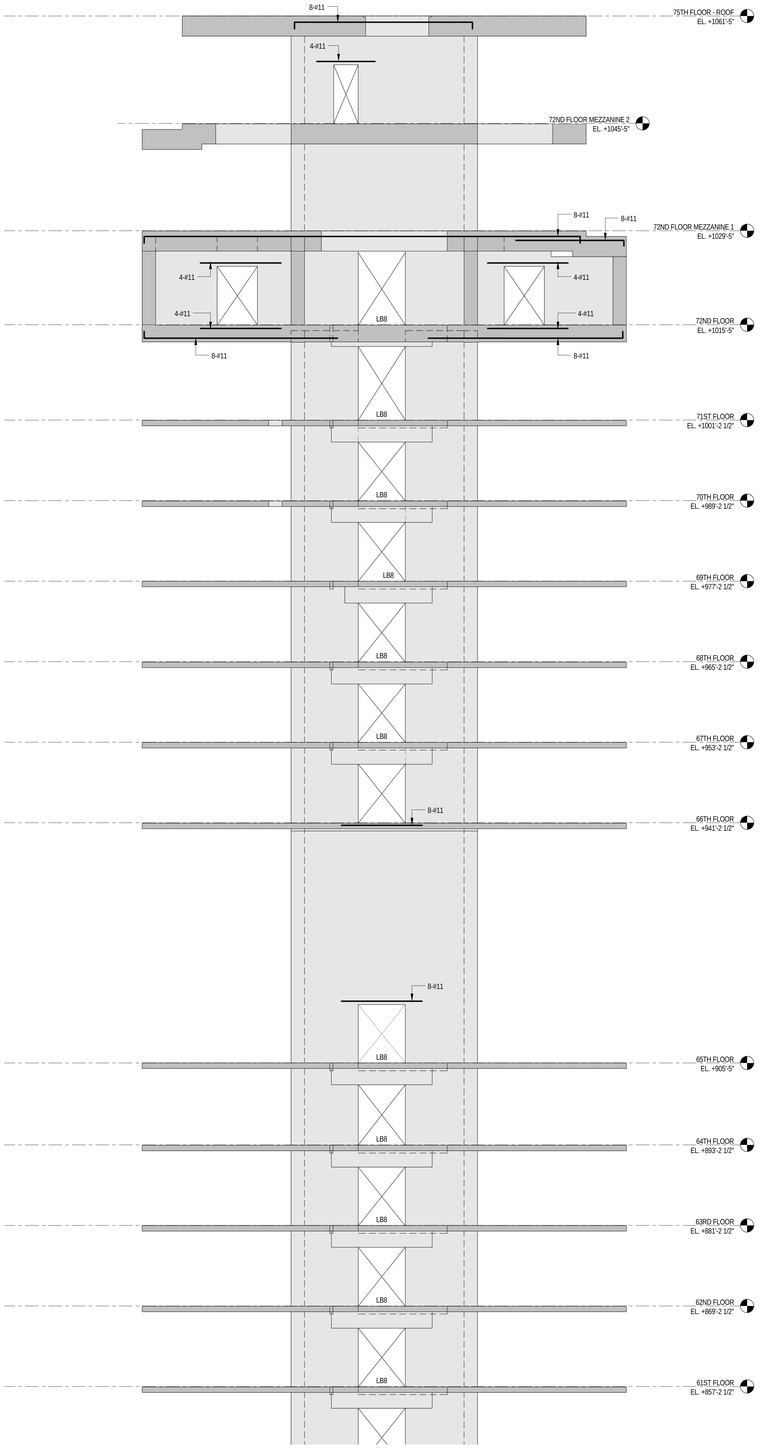
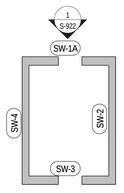


1 S-922 **SHEARWALL SW1A ELEVATION - LOOKING SOUTH**

SCALE: 1/8" = 1'-0"

NOTES:

1. FOR NOTES SEE DRAWING S-920.



2 S-922 **KEY PLAN**

SCALE: 1/16" = 1'-0"

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JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889-9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 13TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
250 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
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EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
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NEW YORK, NY 10012
tel 646.666.0848

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.759-8140

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NEW YORK, NY 10001
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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
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HACKENSACK, NJ 07601
tel 201.820.2922

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BURO HAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
330 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4090

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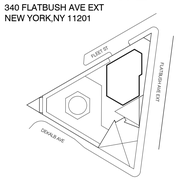

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		1	2015/10/16	DOB FILING SET

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SHEARWALL SW1A ELEVATION 2

SEAL & SIGNATURE

STATE OF NEW YORK SUSAN L. MARONE LICENSED PROFESSIONAL ENGINEER

DATE	03/13/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-922.00

PAGE 02 OF 10/02/15

DEPT OF BLDGS 320014336 Job Number
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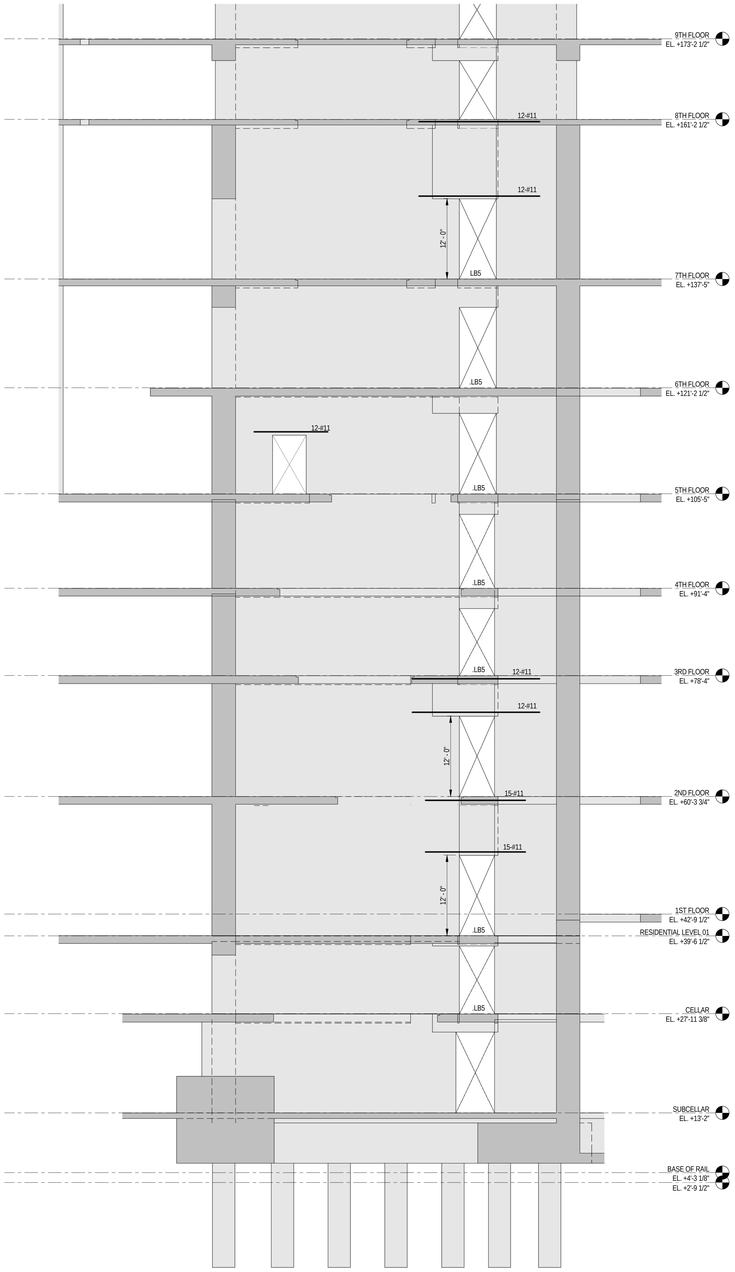
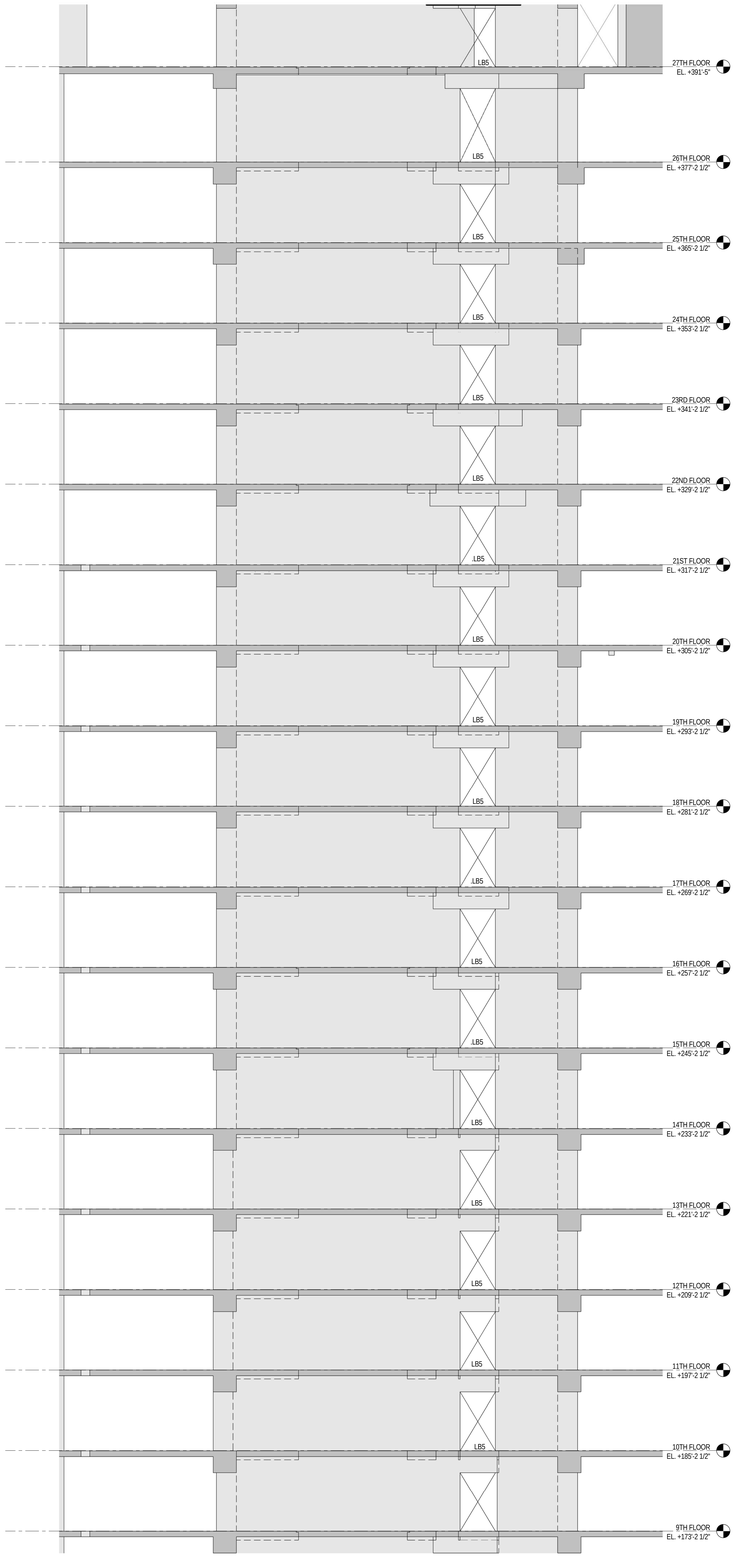
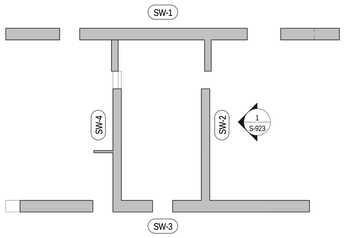




1 S-923 **SHEARWALL SW2 ELEVATION - LOOKING WEST**

SCALE: 1/8" = 1'-0"

NOTES:
1. FOR NOTES SEE DRAWING S-920.



3 S-923 **KEY PLAN**

SCALE: 1/16" = 1'-0"

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 13TH FLOOR
NEW YORK, NY 10005
tel 212.530.5000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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AKRF
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NEW YORK, NY 10016
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VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6140

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227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
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HACKENSACK, NJ 07601
tel 201.820.2902

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
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tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
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SHEARWALL SW2 ELEVATION 1

SEAL & SIGNATURE

STATE OF NEW YORK — JUSTIN L. WEAVER — 087139 — REGISTERED ARCHITECT

DATE	03/13/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-923.00

PLOT DATE 07/13/2016

DEPT OF BUILDINGS 3009243536 Job Number

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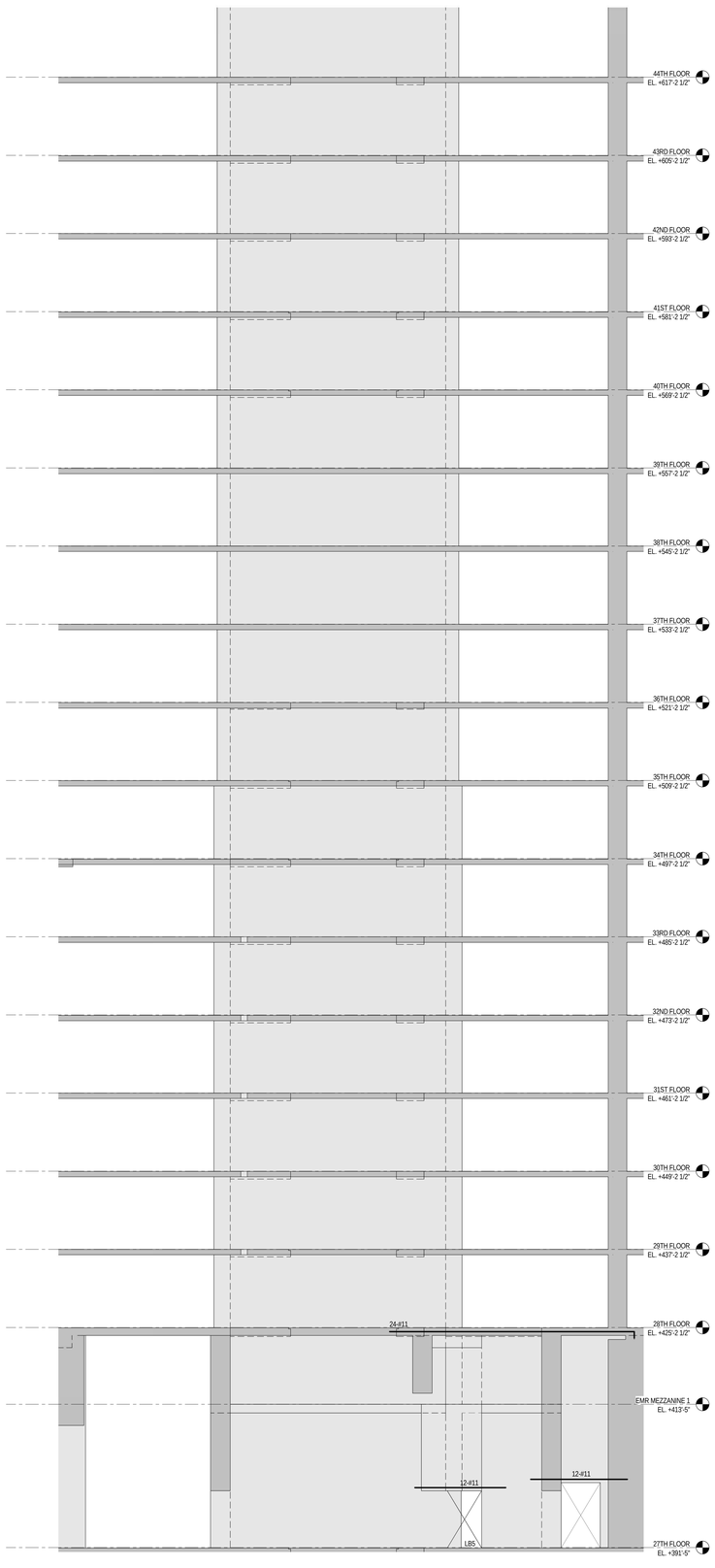
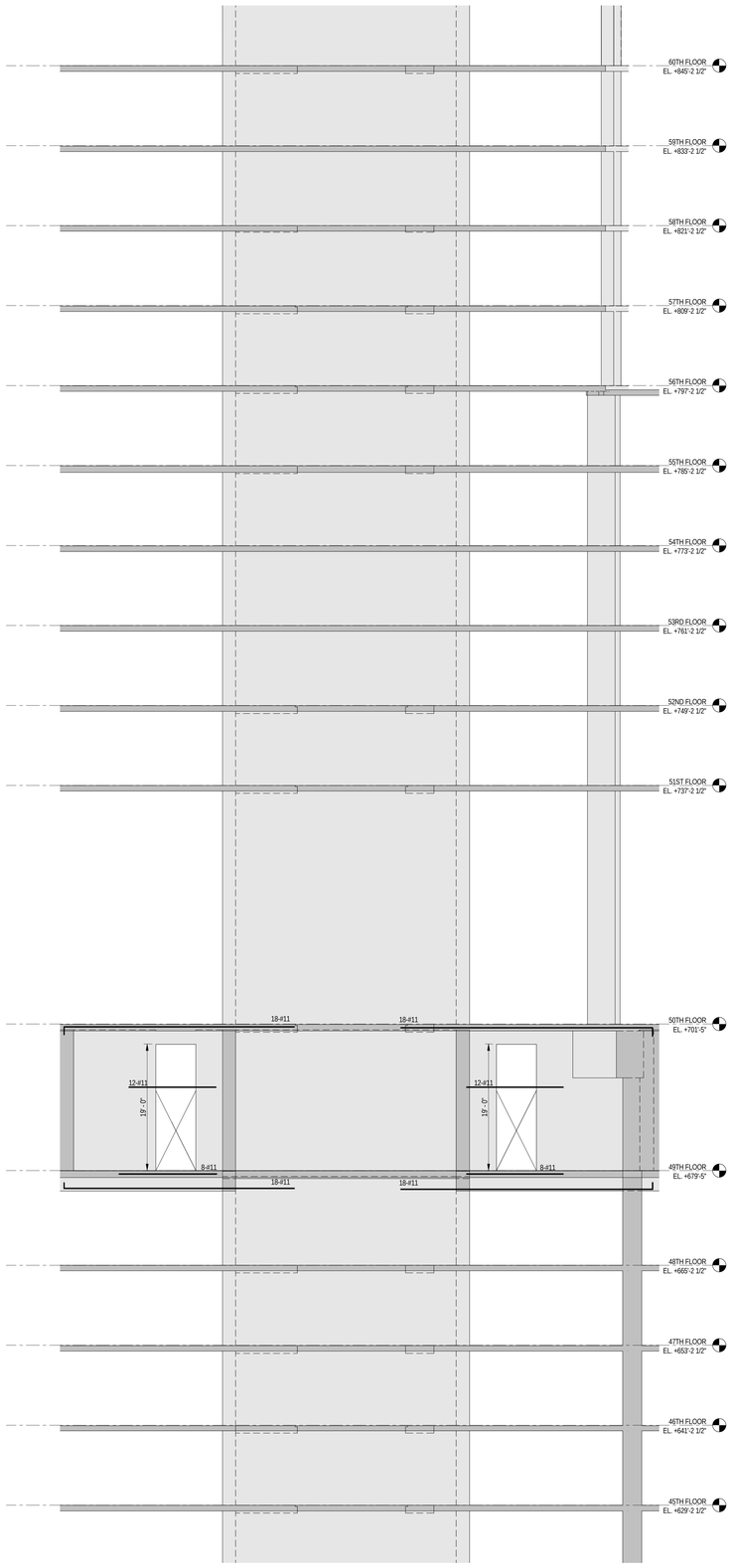


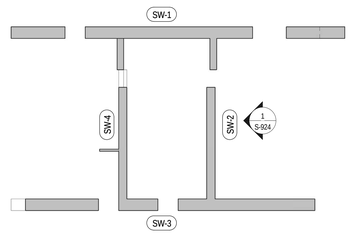


1 S-924 SHEARWALL SW2 ELEVATION - LOOKING WEST

SCALE: 1/8" = 1'-0"

NOTES:

1. FOR NOTES SEE DRAWING S-920.



3 S-924 KEY PLAN

SCALE: 1/16" = 1'-0"

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104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
SHoP ARCHITECTS, P.C.
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tel 212.889.9005

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MEP ENGINEER
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tel 212.530.9000

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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
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HACKENSACK, NJ 07601
tel 201.820.2902

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7000

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NEW YORK, NY 10016
tel 212.688.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.3525

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tel 914.495.4290

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SHEARWALL SW2 ELEVATION 2

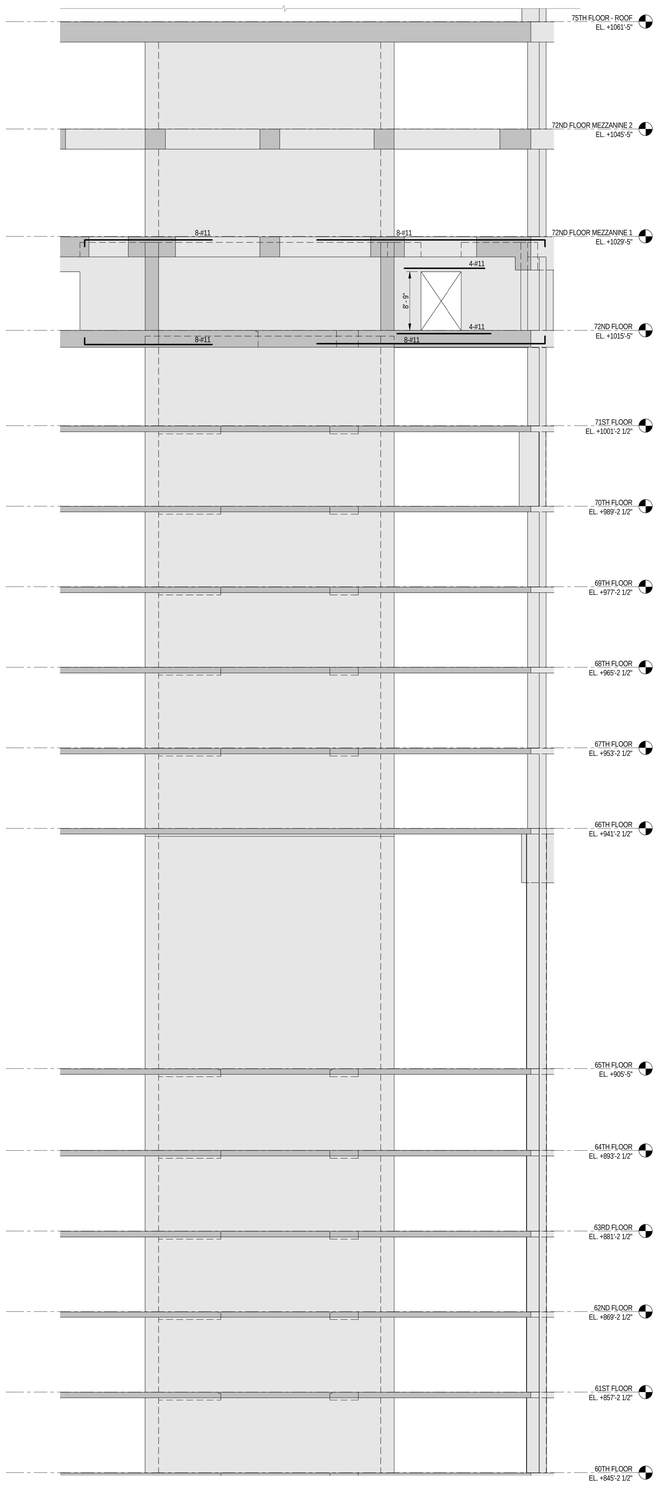
SEAL & SIGNATURE

STATE OF NEW YORK JOSHUA L. MARCUS 025135 LICENSED PROFESSIONAL ENGINEER

DATE	03/13/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-924.00

7/19/2016 2:39:47 PM

DEPT OF BLDGS 320014338 Job Number
E500775405 Scan Code

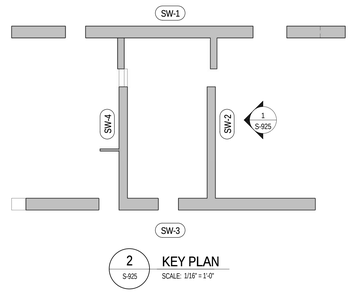


1 / S-925 SHEARWALL SW2 ELEVATION - LOOKING WEST

SCALE: 1/8" = 1'-0"

NOTES:

1. FOR NOTES SEE DRAWING S-920.



2 / S-925 KEY PLAN

SCALE: 1/16" = 1'-0"

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889-9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 11TH FLOOR
NEW YORK, NY 10005
tel 212.590.6000

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

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GEOTECHNICAL ENGINEER
MRCE
250 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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AKRF
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120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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GACHOT
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NEW YORK, NY 10012
tel 646.666.0848

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NEW YORK, NY 10018
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NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
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NEW YORK, NY 10010
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BURO HAPPOLD
120 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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SHEARWALL SW2 ELEVATION 3

SEAL & SIGNATURE

STATE OF NEW YORK — BRIAN L. MARKEE — 029139 — LICENSED ARCHITECT

DATE	03/13/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-925.00

PLOT DATE: 10/16/2015

DEPT OF BUILDINGS 3009143536 Job Number

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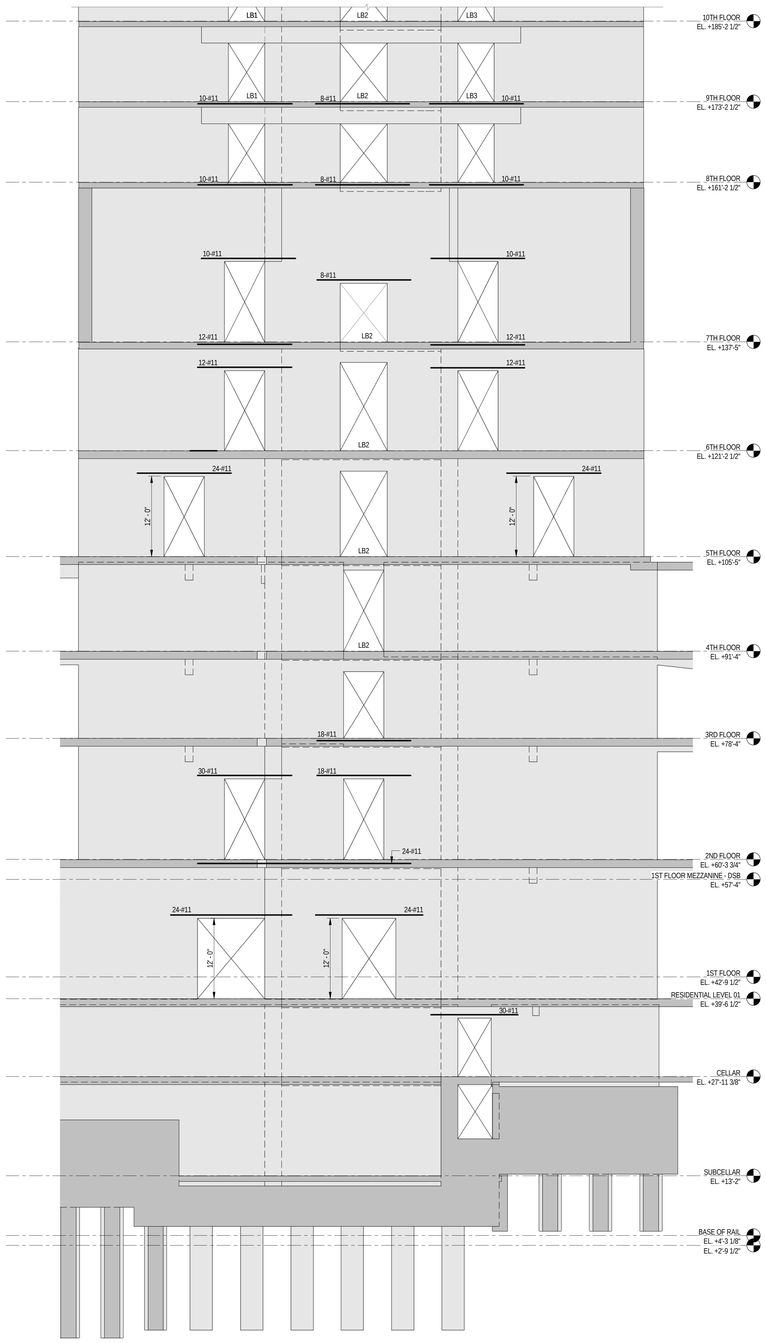

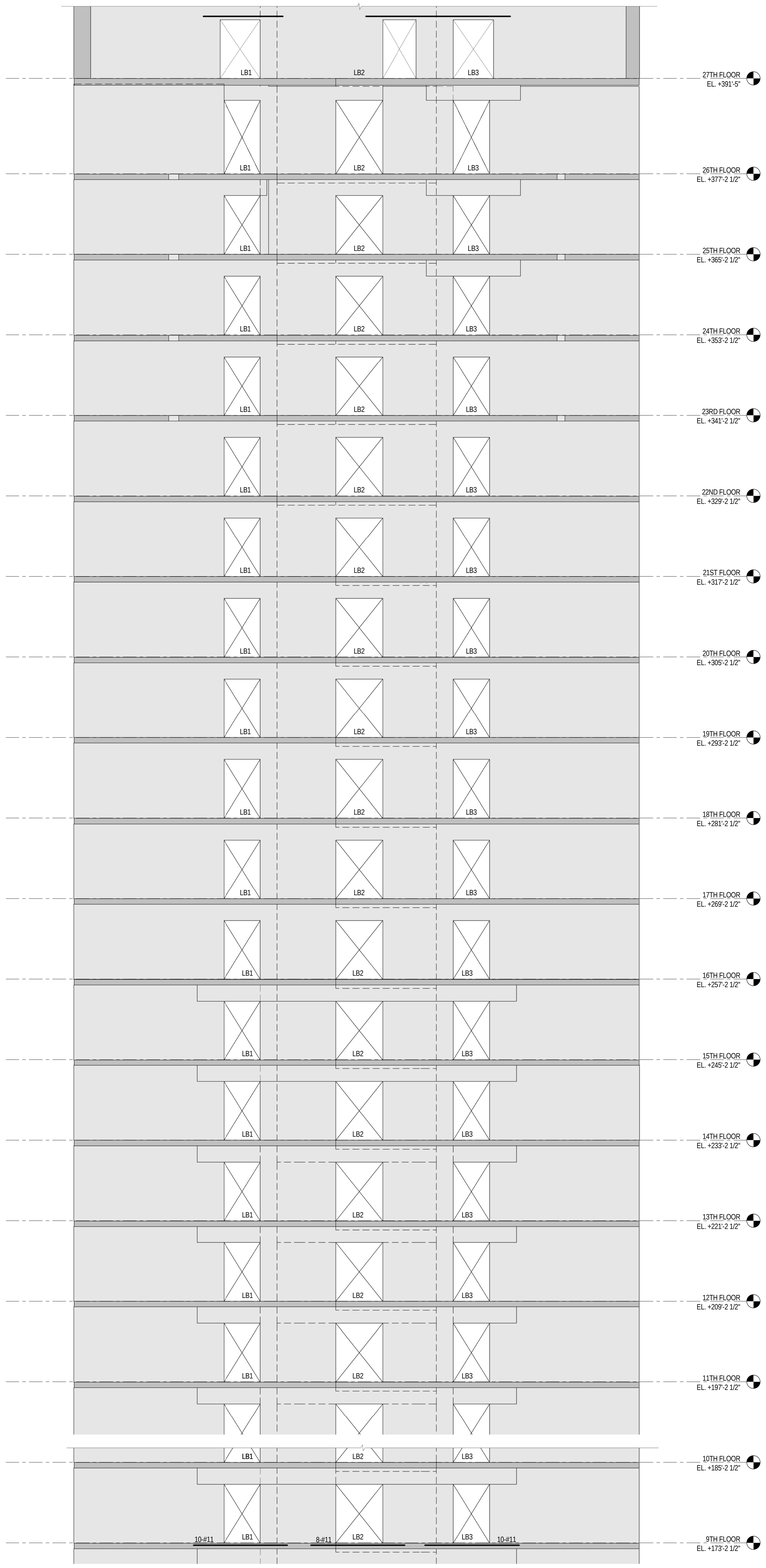

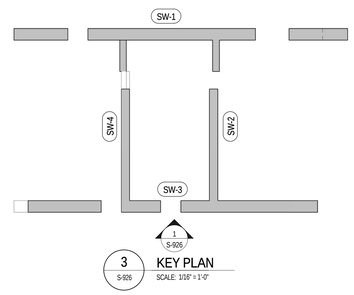

1 S-926 SHEARWALL SW3 ELEVATION - LOOKING NORTH

SCALE: 1/8" = 1'-0"

NOTES:
1. FOR NOTES SEE DRAWING S-920.

3 S-926 KEY PLAN

SCALE: 1/16" = 1'-0"

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
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NEW YORK, NY 10279
tel 212.889.9005

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tel 212.530.9000

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tel 212.967.9808

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NEW YORK, NY 10122
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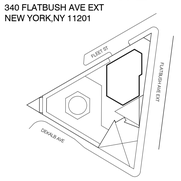

SITE DIAGRAM

NO.	DATE	REVISION
1	2015/10/16	DOB FILING SET

DATE ISSUE

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DRAWING TITLE

SHEARWALL SW3 ELEVATION 1

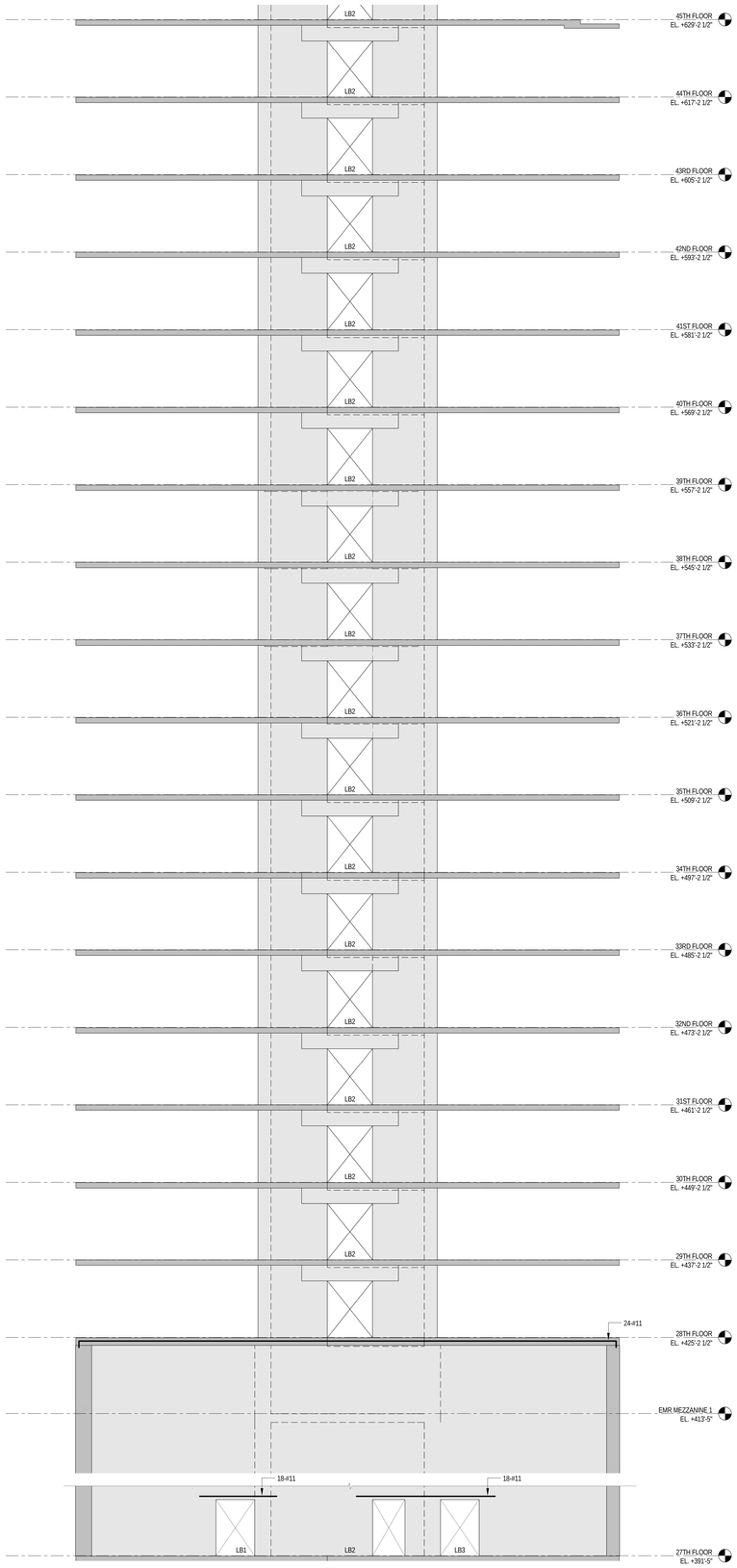
SEAL & SIGNATURE

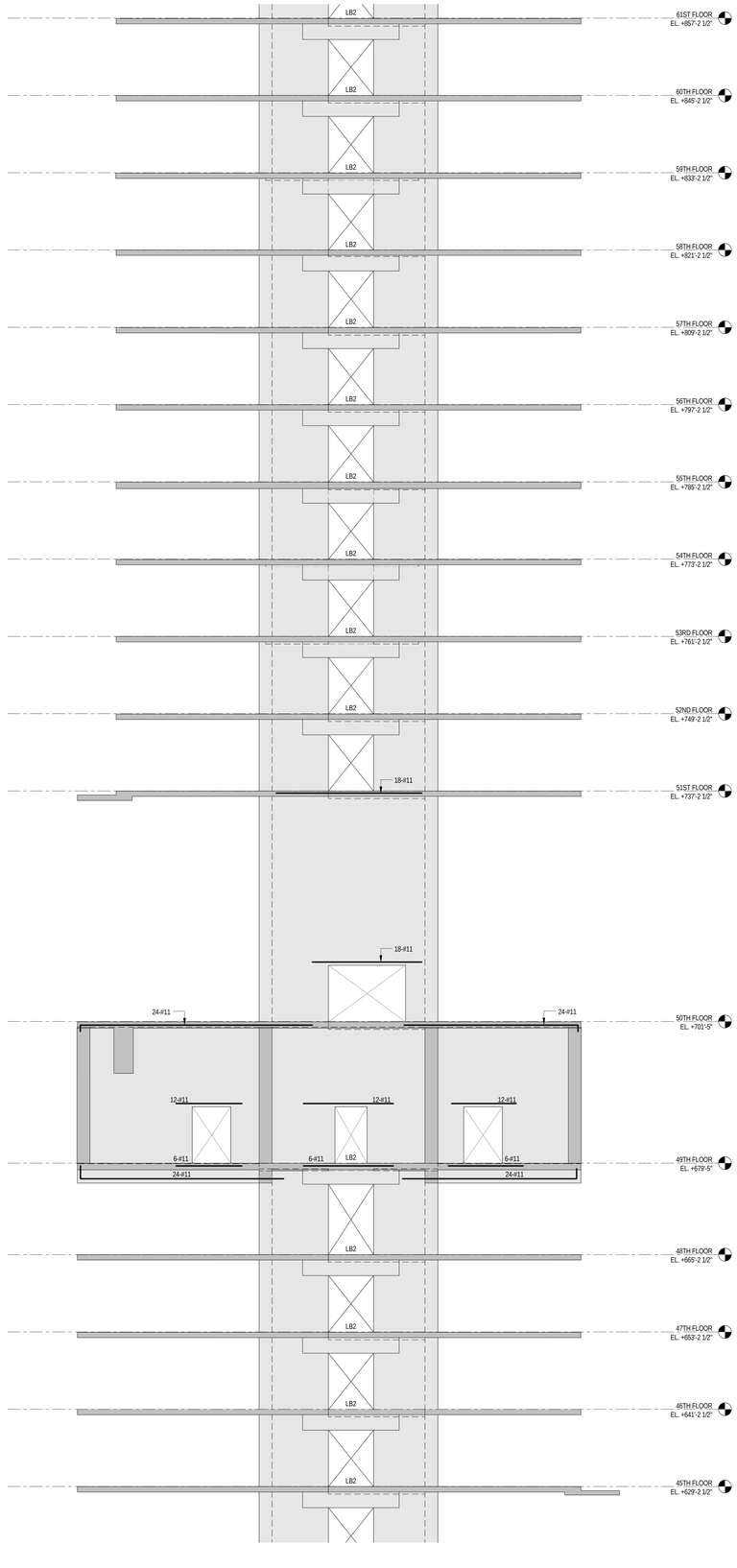
STATE OF NEW YORK · STEVEN L. MAGGIO · 19173 · REGISTERED ARCHITECT

DATE	03/13/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-926.00

PM-JOHN MANUE

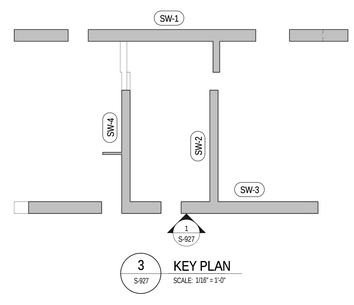
DEPT OF BLDGS 320014338 Job Number
ES1903417538 Scan Code





1 S-927 **SHEARWALL SW3 ELEVATION - LOOKING NORTH**
SCALE: 1/8" = 1'-0"

NOTES:
1. FOR NOTES SEE DRAWING S-920.



3 S-927 **KEY PLAN**
SCALE: 1/16" = 1'-0"

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 13TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

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GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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AKRF
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VERTICAL TRANSPORTATION
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EAST HANOVER, NJ 07936
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51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

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HISTORIC PRESERVATION
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39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
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tel 212.315.6400

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196 AMES STREET
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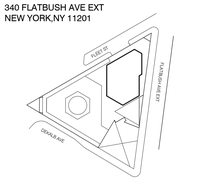

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1	2017/5/2018	DOB FILING SET

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SHEARWALL SW3 ELEVATION 2

SEAL & SIGNATURE

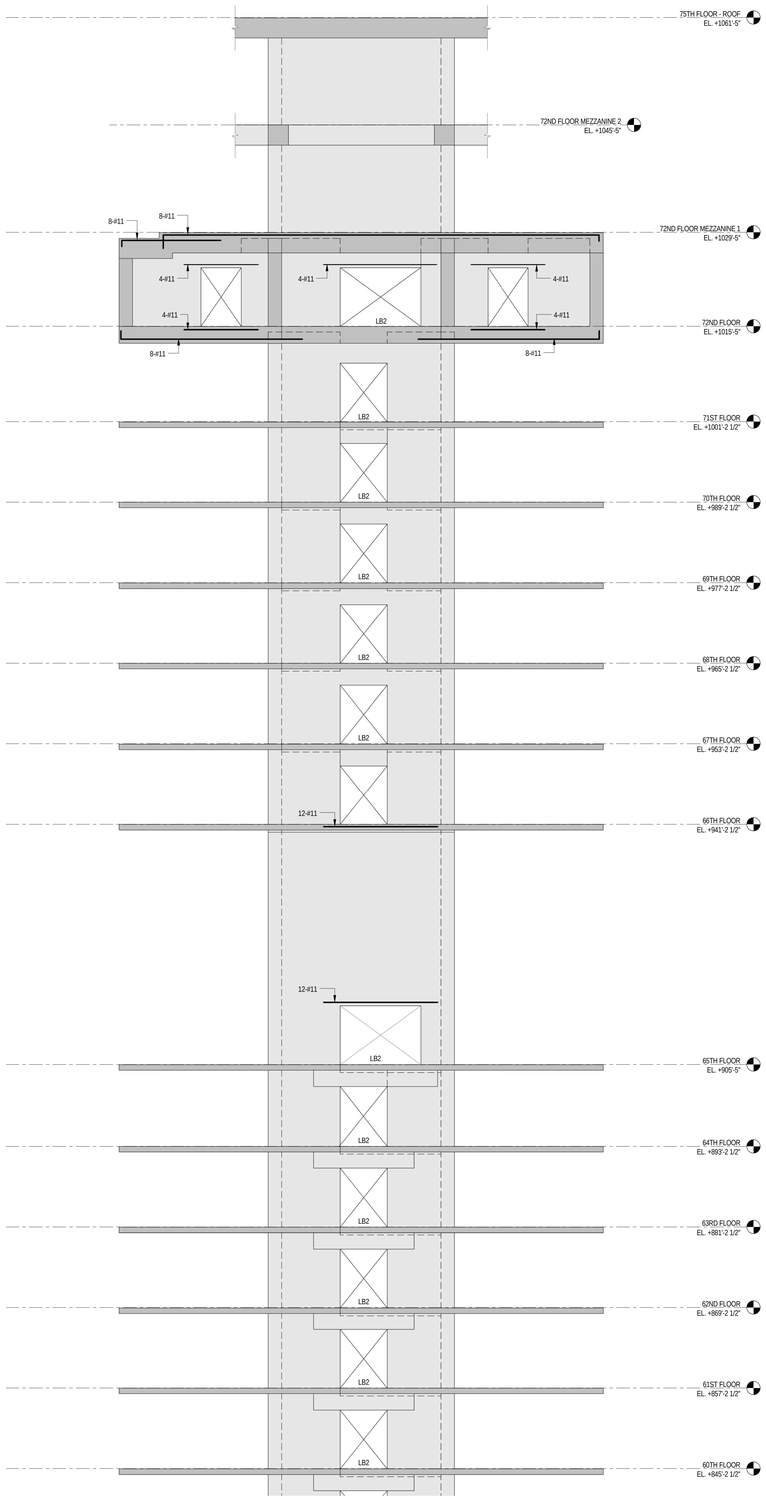
STATE OF NEW YORK — STEVEN L. MARCUS — 029139 — LICENSED ARCHITECT

DATE	03/13/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-927.00

PLOT DATE: 7/5/2018

DEPT OF BLDGS 320014338 Job Number

X1000350656 Scan Code

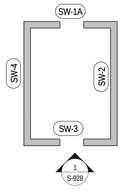


1 S-928 **SHEARWALL SW3 ELEVATION - LOOKING NORTH**

SCALE: 1/8" = 1'-0"

NOTES:

1. FOR NOTES SEE DRAWING S-920.



2 S-928 **KEY PLAN**

SCALE: 1/16" = 1'-0"

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889-9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
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NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

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GEOTECHNICAL ENGINEER
MRCE
250 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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EAST HANOVER, NJ 07936
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THORNTON TOMASETTI
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NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
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NEW YORK, NY 10012
tel 646.666.0848

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HISTORIC PRESERVATION
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tel 212.271.7000

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SHEARWALL SW3 ELEVATION 3

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STATE OF NEW YORK SUSAN L. MARCUS 030139 LICENSED PROFESSIONAL ENGINEER 05/13/16

DATE	03/13/15
PROJECT NO.	1490086
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CHECKED BY	Checker
DOB NO.	

DRAWING NUMBER

S-928.00

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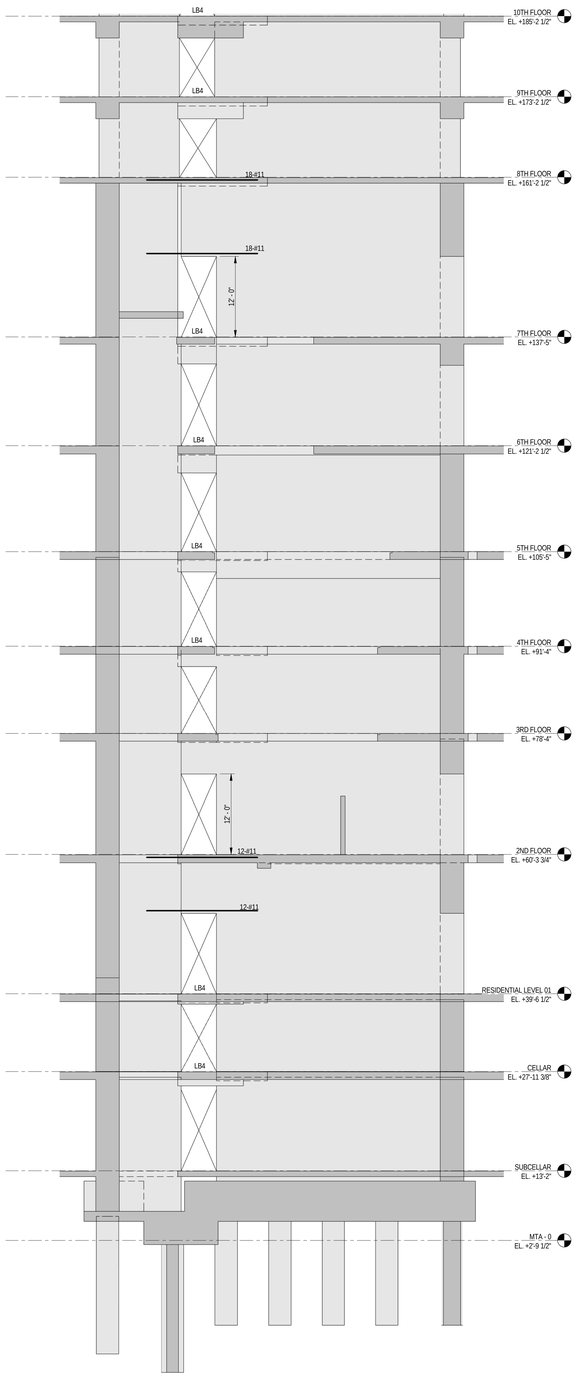
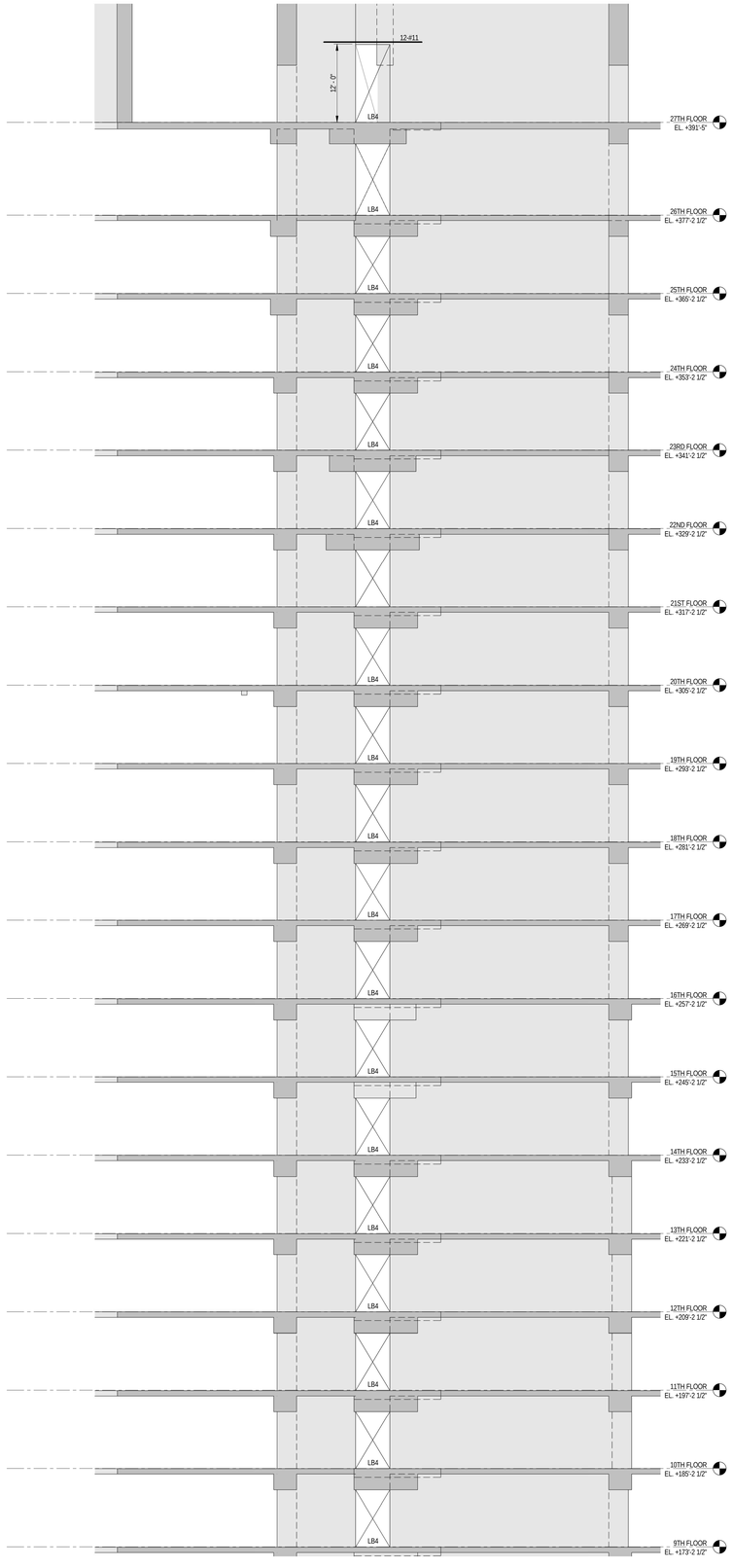
DEPT OF BLDGS 320014336 Job Number
E320417448DS Scan Code



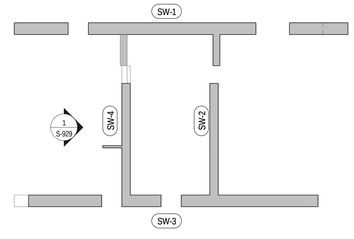


1 / S-929 SHEARWALL SW4 ELEVATION -LOOKING EAST

SCALE: 1/8" = 1'-0"

NOTES:

1. FOR NOTES SEE DRAWING S-920.



3 / S-929 KEY PLAN

SCALE: N.T.S.

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JDS DEVELOPMENT GROUP
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tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889-9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
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NEW YORK, NY 10005
tel 212.530.9300

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WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

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GEOTECHNICAL ENGINEER
MRCE
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EAST HANOVER, NJ 07936
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THORNTON TOMASETTI
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tel 917.661.7800

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GACHOT
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tel 201.820.2902

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7000

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VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212-334-2025

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WHITE PLAINS, NY 10604
tel 914.485.4280

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DRAWING TITLE

SHEARWALL SW4 ELEVATION

SEAL & SIGNATURE

DATE	03/13/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	

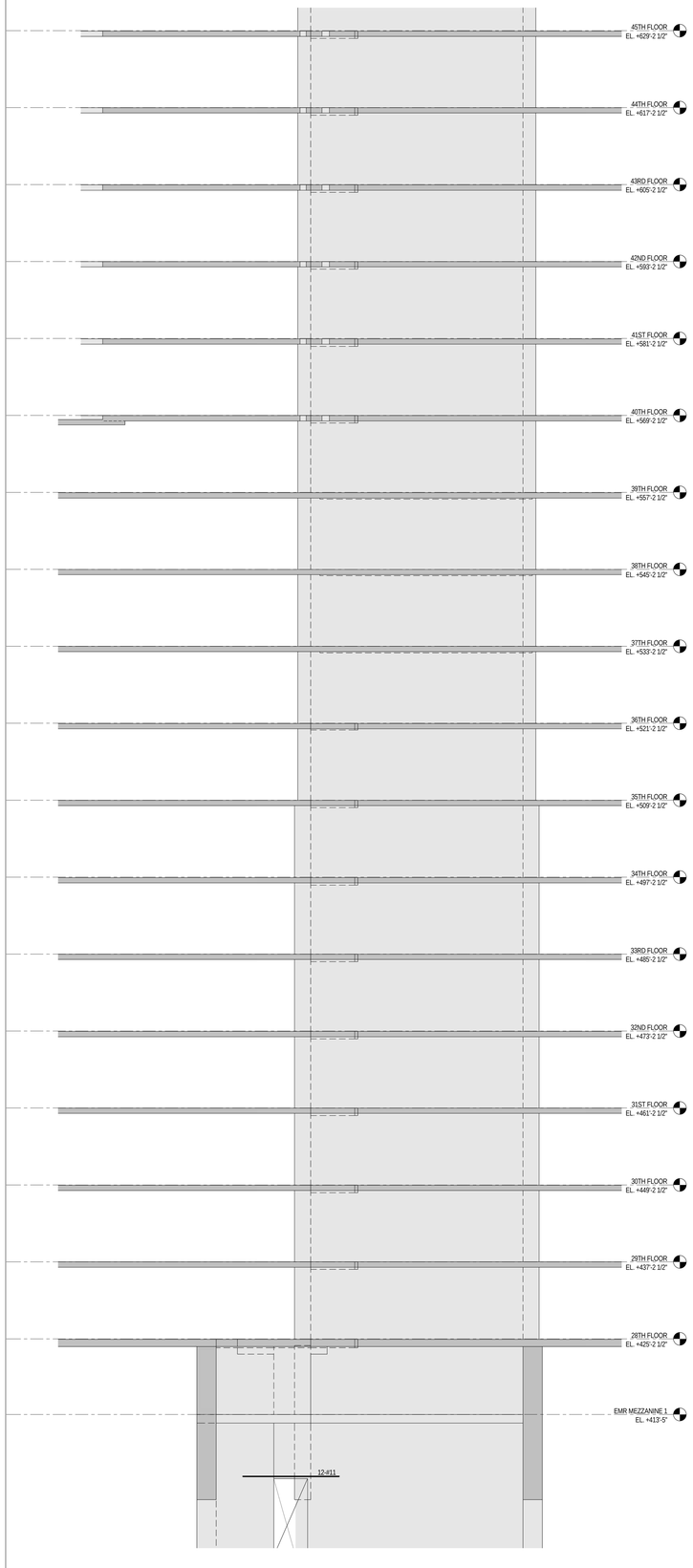
DRAWING NUMBER

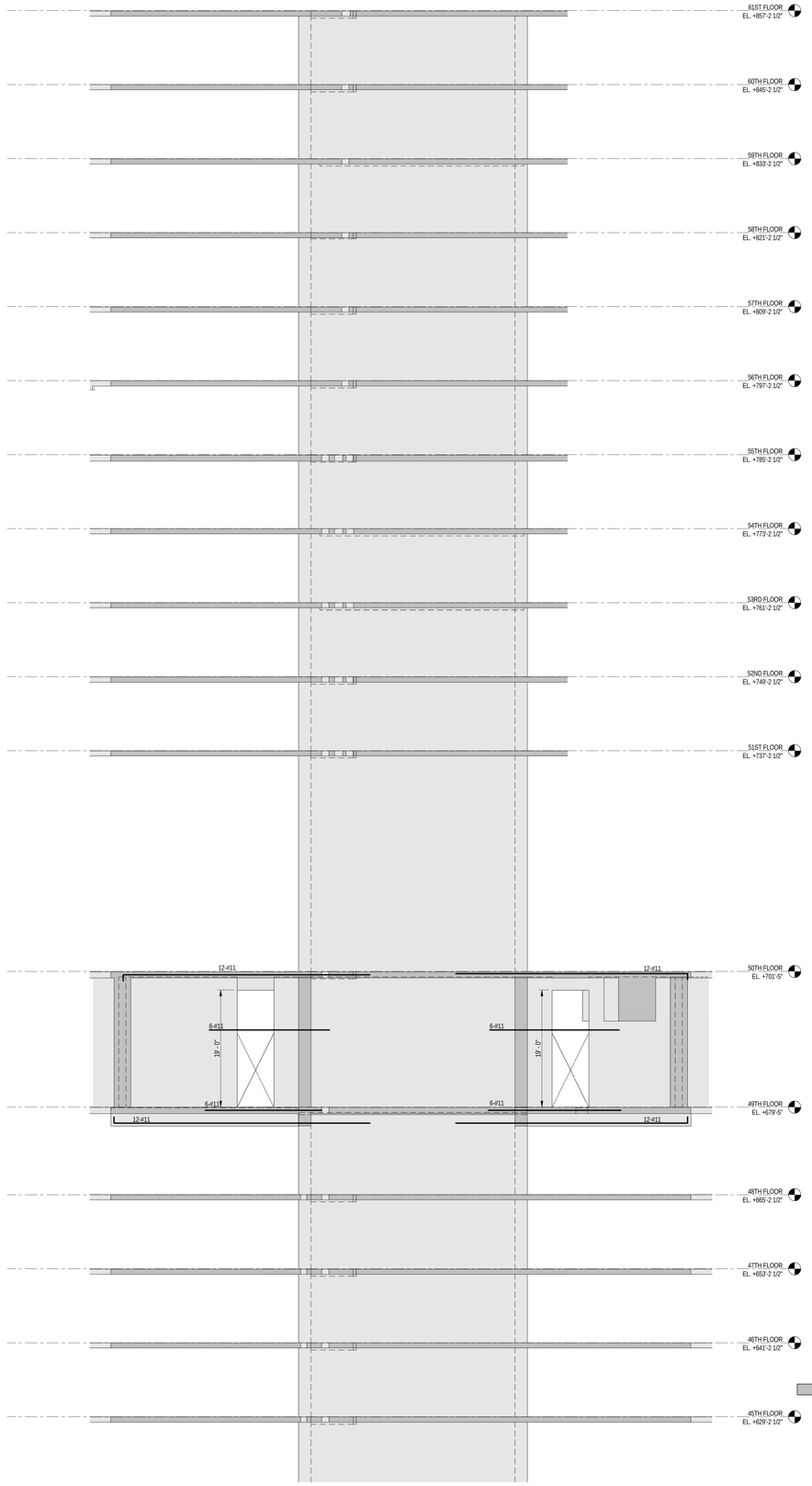
S-929.00

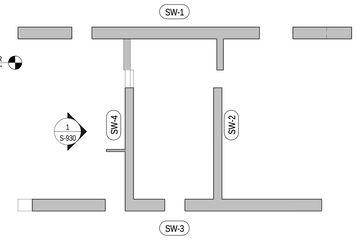
7/15/2016 2:02:23 PM

DEPT OF BLDGS 320243336 Job Number

E364347432 Scan Code







1 S-930 **SHEARWALL SW4 ELEVATION - LOOKING EAST**

SCALE: 1/8" = 1'-0"

NOTES:
1. FOR NOTES SEE DRAWING S-920.

3 S-930 **KEY PLAN**

SCALE: 1/16" = 1'-0"

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
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NEW YORK, NY 10005
tel 212.530.9000

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WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.967.9808

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GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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GACHOT
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NEW YORK, NY 10012
tel 646.666.0848

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JAN HIRD POKORNY ASSOCIATES
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tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
186 JAMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 15TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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POOL
TRACE POOL DESIGN
534 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4795

9 DEKALB AVE

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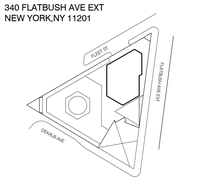
NEW YORK,NY 11201



SITE DIAGRAM

DATE	ISSUE
03/13/2015	DOB FILING SET

NO.	DATE	REVISION
1		

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DRAWING TITLE

SHEARWALL SW4 ELEVATION 2

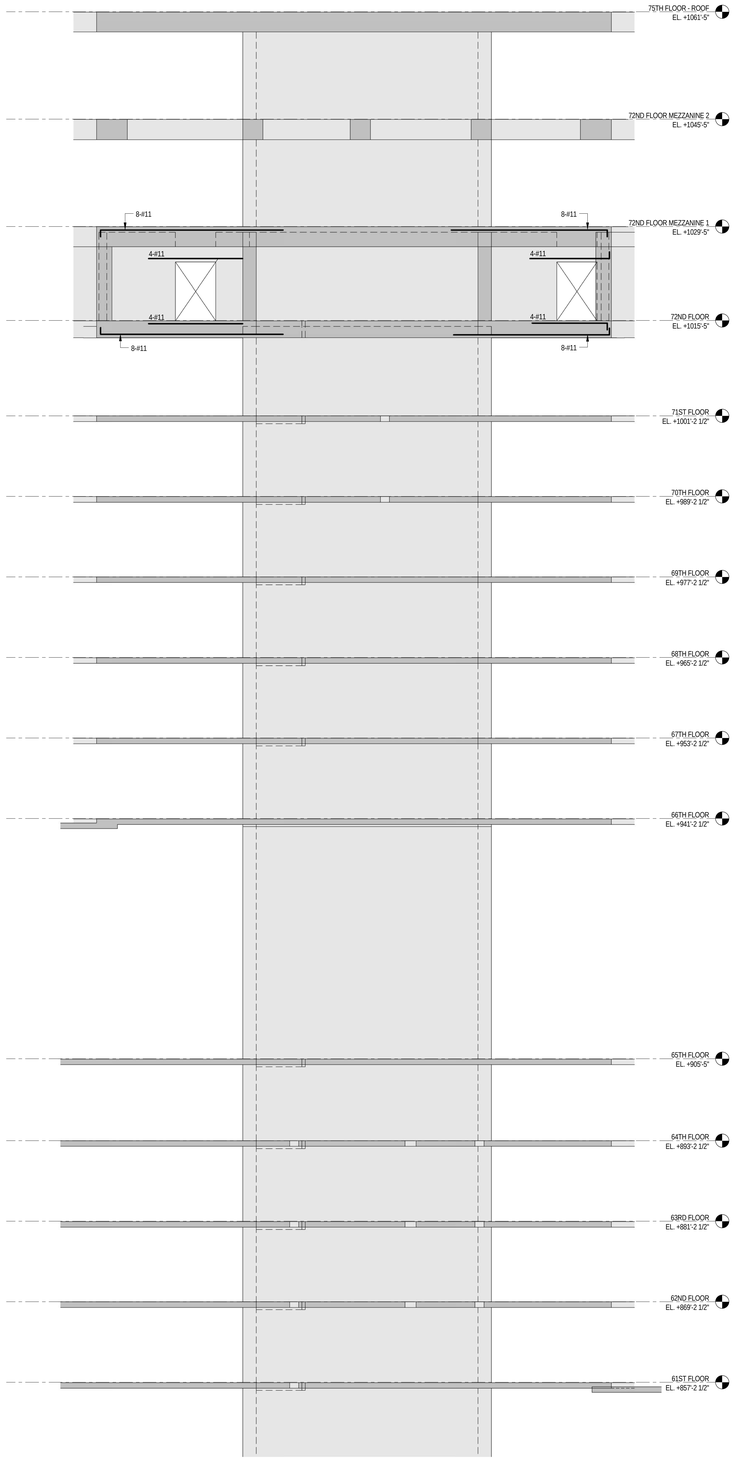
SEAL & SIGNATURE

DATE	03/13/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-930.00

PLOT DATE: 5/13/2015

DEPT OF BUILDINGS 320214336 Job Number

B1805268886 Scan Code



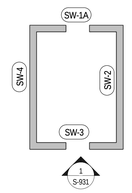
1 S-931

SHEARWALL SW4 ELEVATION - LOOKING EAST

SCALE: 1/8" = 1'-0"

NOTES:

1. FOR NOTES SEE DRAWING S-920.



2 S-931

KEY PLAN

SCALE: 1/16" = 1'-0"

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889-9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 11TH FLOOR
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tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 44TH STREET
NEW YORK, NY 10017
tel 212.867.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
250 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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AKRF
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tel 646.388.9828

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VAN DEUSEN & ASSOCIATES
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EAST HANOVER, NJ 07936
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Thornton Tomasetti

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THORNTON TOMASETTI
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GACHOT

INTERIORS
GACHOT
164 BROADWAY SUITE 309
NEW YORK, NY 10012
tel 646.666.0848

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JAN HIRD POKORNY ASSOCIATES
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tel 212 759-8140

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NEW YORK, NY 10001
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Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

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SIMPSON GUMPERTZ & HEGER
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VIDARIS
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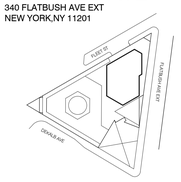

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DATE	ISSUE

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1	07/15/2015	DOB FILING SET

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DRAWING TITLE

SHEARWALL SW4 ELEVATION 3

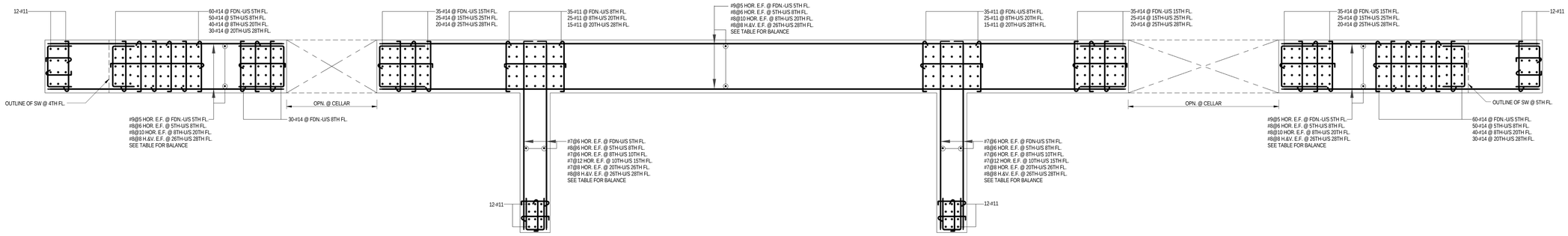
SEAL & SIGNATURE

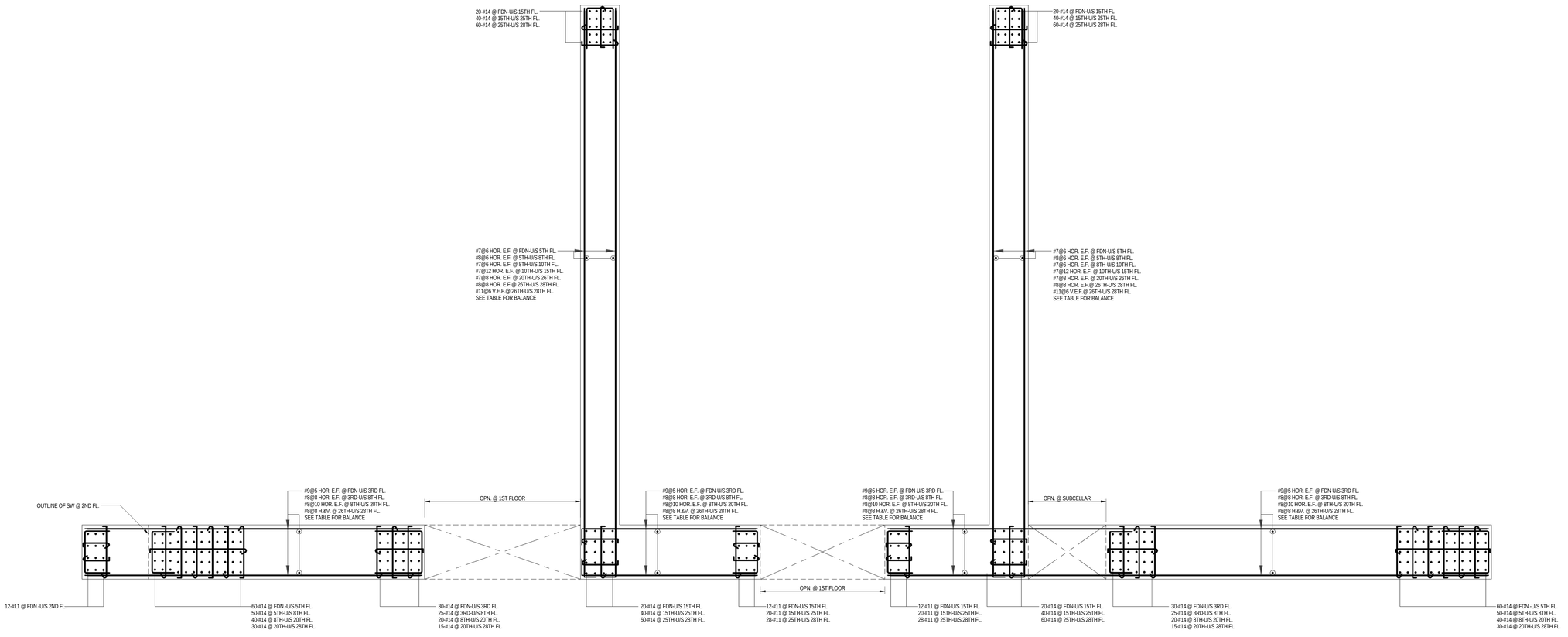
DATE	03/13/15
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-931.00

PM 3:19:04 5/15/2015

DEPT OF BLDGS 320014336 Job Number

E309023389T7 Scan Code





1 / S-940

SHEARWALL REINFORCEMENT @ FOUNDATION TO U/S 28TH FLOOR

SCALE: 3/8" = 1'-0"

NOTES:

1. SEE S-945 FOR SHEARWALL TYPICAL DETAILS.
2. SEE FO-001 FOR GENERAL NOTES.
3. ALL #11 SHALL BE GRADE 75 U.O.N.
4. ALL #14 SHALL BE GRADE 97 U.O.N.
5. FOR BALANCE OF REINF. NOT SHOWN ON PLAN, SEE TABLE OF SHEARWALL TYPICAL MINIMUM REINF. ON DWG. S-945.
6. SEE DRAWING PLANS & SHEARWALL ELEVATION FOR SIZE OF SHEARWALL OPENINGS.
7. FOR LINK BEAM SCHEDULE, SEE S-940 SERIES DRAWINGS.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.5000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 48TH STREET
NEW YORK, NY 10017
tel 212.887.9888

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GEOTECHNICAL ENGINEER
MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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440 PARK AVE SOUTH 7TH FLOOR
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VERTICAL TRANSPORTATION
VAN DELUSEN & ASSOCIATES
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GACHOT
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HISTORIC PRESERVATION
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tel 212.315.6400

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NEW YORK, NY 10010
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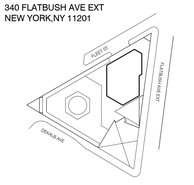

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		1	07/15/2016	DOB FILING SET

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DRAWING TITLE

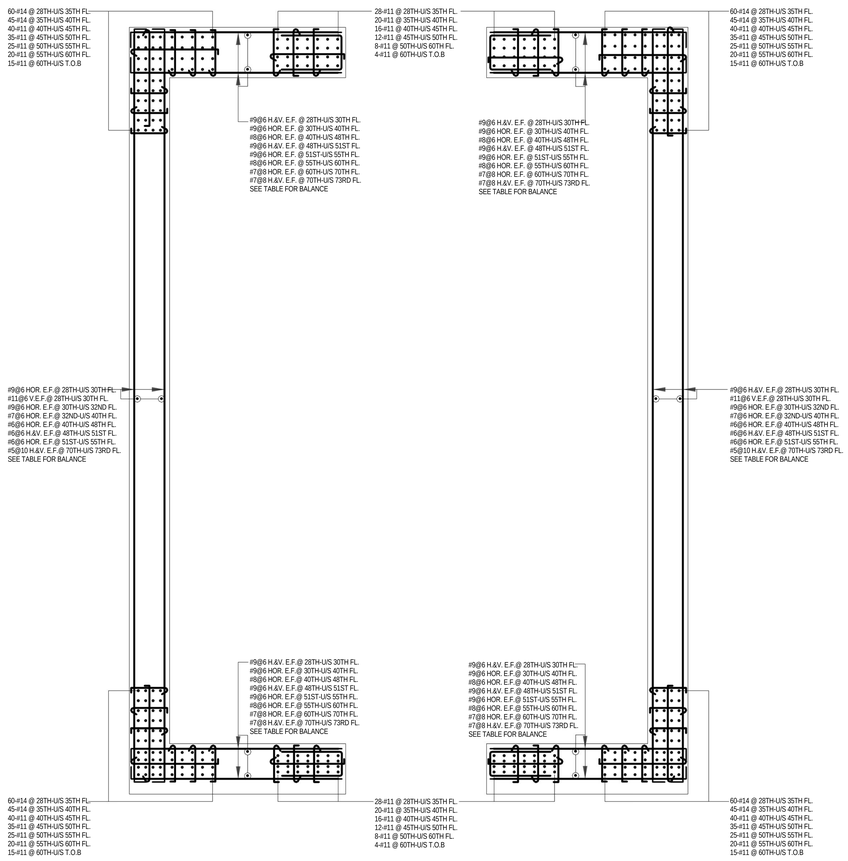
SHEARWALL REINFORCEMENT @ FOUNDATION TO U/S 28TH FLOOR

SEAL & SIGNATURE

DATE	06/27/16
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	S-940.00

7/18/2016 4:43:57 PM

DEPT OF BLDGS 320014336 Job Number
E3606042293 Scan Code



1 / S-941 SHEARWALL REINFORCEMENT @ 28TH TO U/S ROOF

SCALE: 3/8" = 1'-0"

NOTES:

1. SEE S-945 FOR SHEARWALL TYPICAL DETAILS.
2. SEE FO-001 FOR GENERAL NOTES.
3. ALL #11 SHALL BE GRADE 75 U.O.N.
4. ALL #14 SHALL BE GRADE 97 U.O.N.
5. FOR BALANCE OF REINF. NOT SHOWN ON PLAN, SEE TABLE OF SHEARWALL TYPICAL MINIMUM REINF. ON DWG. S-945.
6. SEE DRAWING PLANS & SHEARWALL ELEVATION FOR SIZE OF SHEARWALL OPENINGS.
7. FOR LINK BEAM SCHEDULE, SEE S-940 SERIES DRAWINGS.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

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JAROS, BAUM & BOLLES
80 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

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WSP CANTOR SEINUK
235 WEST 48TH STREET
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GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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EAST HANOVER, NJ 07936
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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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GACHOT
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tel 646.666.0848

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NEW YORK, NY 10018
tel 212.315.6400

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HACKENSACK, NJ 07601
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tel 914.495.4290

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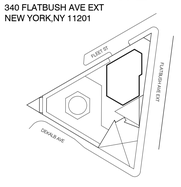

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NO.	DATE	REVISION
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DRAWING TITLE

SHEARWALL REINFORCEMENT @ 28TH TO U/S ROOF

SEAL & SIGNATURE

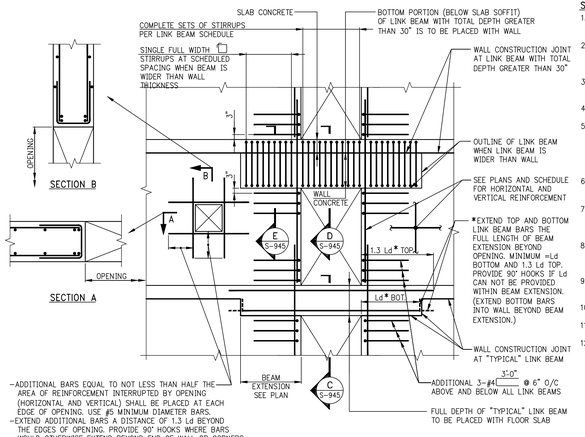
DATE	07/14/16
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	

DRAWING NUMBER

S-941.00

7/15/2016 4:13:26 PM

DEPT OF BLDGS 300924536 Job Number
E396990922 Scan Code



SHEARWALL NOTES:

1. ALL SHEARWALL REINFORCEMENT (HORIZONTAL AND VERTICAL) IS TO BE TENSION LAP SPLICED. SEE LAP SPLICE IN S-960 SERIES DRAWINGS.
2. ALL NON-TYPICAL VERTICAL BARS UNSUPPORTED BY A LATERAL TIE SHALL BE SPACED NO MORE THAN 6" CLEAR ON BOTH SIDES FROM SUCH LATERALLY SUPPORTED BARS.
3. ALTERNATE 90° AND 135° ENDS ON CONSECUTIVE SINGLE LEG CROSSTIES THROUGHOUT HEIGHT OF WALL.
4. FOR MINIMUM TYPICAL REINFORCEMENT SEE SCHEDULE ON THIS DRAWING.
5. WHERE HEAVIER REINFORCEMENT IS SHOWN ON S-920, 930 & 940 SERIES ELEVATIONS OR DETAILS, THE HEAVIER REINFORCEMENT SHALL BE USED IN LIEU OF REINFORCEMENT SHOWN ON SHEARWALL PLANS, UNLESS NOTED AS "ADDITIONAL". (AN ASTERISK (•) MAY BE SHOWN TO DENOTE SUCH SUBSTITUTIONS).
6. NO OPENING OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS MAY BE PLACED WITHOUT APPROVAL OF THE ENGINEER OF RECORD.
7. CONTRACTOR SHALL SUBMIT CONSOLIDATED SHOP DRAWINGS FOR ALL OPENINGS PROPOSED (SUCH AS STRUCTURAL, ARCHITECTURAL, MEP) TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
8. NO VERTICAL CONSTRUCTION JOINTS ARE PERMITTED IN SHEARWALLS WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER OF RECORD. KEYS AND DOWELS MUST BE AS DEFINED BY THE E.O.R.
9. SEE PLANS AND ELEVATIONS FOR SHEARWALL LOCATIONS, DIMENSIONS, REINFORCEMENT, OPENINGS, LINK BEAM LOCATIONS, ETC.
10. FOR LINK BEAM SIZES SEE LINK BEAM SCHEDULE IN S-946 SERIES DRAWINGS.
11. SEE COLUMN SCHEDULES ON S-950 SERIES DRAWINGS FOR CONCRETE STRENGTH REQUIRED AT EACH LEVEL.
12. FOR MINIMUM REQUIRED MODULUS OF ELASTICITY OF CONCRETE, SEE SCHEDULE ON THIS DRAWING.

*TYPICAL MINIMUM SHEARWALL REINFORCEMENT

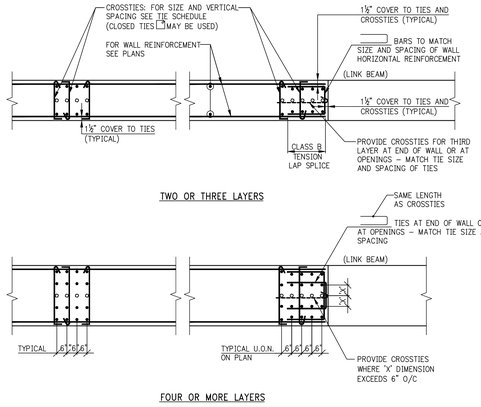
WALL THICKNESS (INCHES)	HORIZONTAL AND VERTICAL EACH FACE
UP TO 12	#4@12
12+ TO 16	#4@10
16+ TO 20	#5@12
20+ TO 24	#5@10
24+ TO 28	#6@12
28+ TO 34	#6@10
34+ TO 40	#7@12
40+ TO 48	#7@10

*THE REINFORCEMENT SHOWN IN THIS TABLE IS THE MINIMUM AMOUNT THAT MUST BE PROVIDED. HEAVIER REINFORCEMENT AND "ADDITIONAL" REINFORCEMENT MAY BE CALLED FOR ON PLANS, ELEVATIONS, OR IN SECTIONS AND DETAILS.

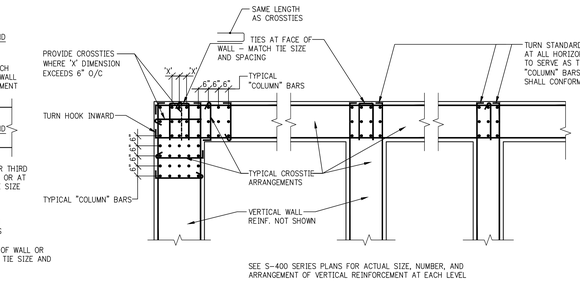
SHEARWALL TIE SCHEDULE

NON-TYPICAL VERTICAL BAR SIZE	#4 TIES VERTICAL SPACING(S), BUT NOT TO EXCEED WALL THICKNESS (INCHES)
#6	12
#7	14
#8	16
#9	18
#10	20
#11	22
BUNDLE OF 2 (UP TO #11)	18
#14, #18, #20	24

NOTES:
1. LOCATE LOWEST SET OF TIES S/2 ABOVE TOP OF SLAB.
2. LOCATE TOP SET OF TIES WITHIN S/2 OF BOTTOM REINFORCEMENT IN SLAB OR LINK BEAM.

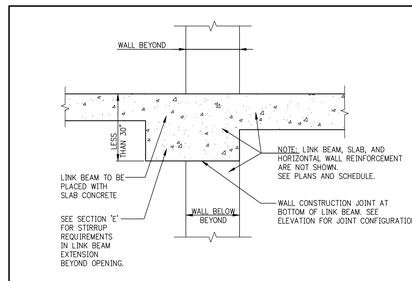


TIE ARRANGEMENTS AT "COLUMN" VERTICAL REINFORCEMENT

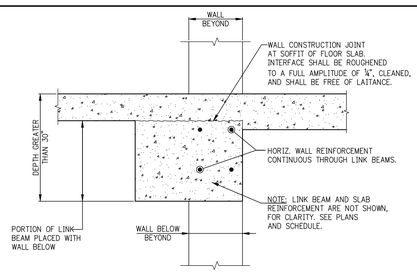


SEE S-400 SERIES PLANS FOR ACTUAL SIZE, NUMBER, AND ARRANGEMENT OF VERTICAL REINFORCEMENT AT EACH LEVEL

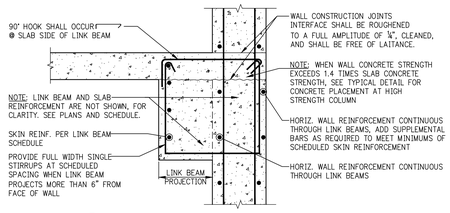
CORNER 'T' INTERSECTIONS



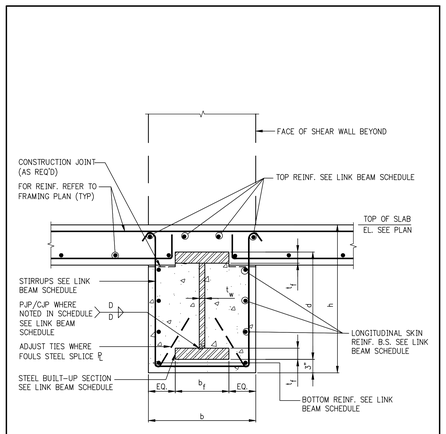
C S-945 SECTION THROUGH LINK BEAM PLACED WITH SLAB



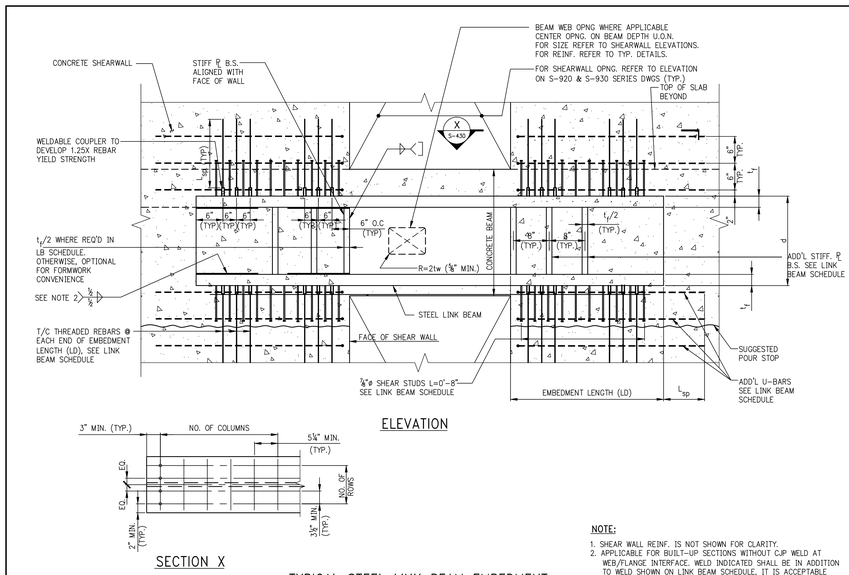
D S-945 SECTION THROUGH LINK BEAM WITH DEPTH >30" PLACED PARTIALLY WITH WALL



E S-945 SECTION THROUGH WALL AT LINK BEAM EXTENSION BEYOND OPENING



TYPICAL SECTION AT HYBRID LINK BEAM



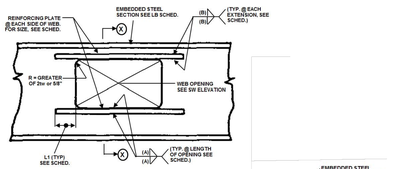
ELEVATION

SECTION X

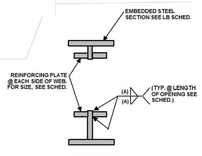
TYPICAL STEEL LINK BEAM EMBEDMENT

NOTE:

1. SHEAR WALL REINF. IS NOT SHOWN FOR CLARITY.
2. APPLICABLE FOR BUILT-UP SECTIONS WITHOUT CJP WELD AT WEB/FLANGE INTERFACE. WELD INDICATED SHALL BE IN ADDITION TO WELD SHOWN ON LINK BEAM SCHEDULE, IT IS ACCEPTABLE TO COMBINE WELDS INTO AN EQUIVALENT PJP/CJP WELD.



WEB OPENING REINFORCING TYPICAL DETAIL



SECTION X-X

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tel 914.485.4090

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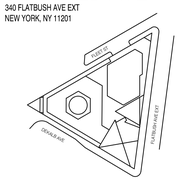

SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
		1	07/15/2016	DOB FILING SET

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DRAWING TITLE

TYPICAL SHEARWALL DETAILS

SEAL & SIGNATURE

STATE OF NEW YORK — GILLIAN L. WARDEN — 027178 — LICENSED PROFESSIONAL ENGINEER — 04/21/16

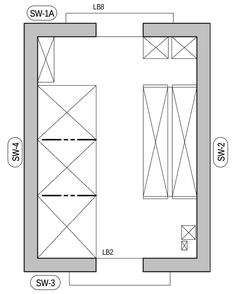
DATE	04/21/16
PROJECT NO.	1490086
DRAWN BY	CADD
CHECKED BY	SH
DOB NO.	DOB NO.
DRAWING NUMBER	S-945.00

01 January 2000

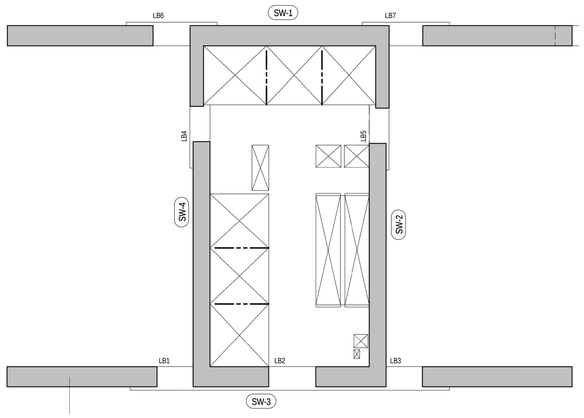
DEPT OF BLDGS 320014336 Job Number
B3005897036 Scan Code

LINK BEAM SCHEDULE

BEAM MARK	FLOOR	SIZE (WxD) (IN.)	TOP REINFORCING (CONT.)	BOTTOM REINFORCING (CONT.)	STIRRUPS			LONGITUDINAL SKIN REINF.	ADDITIONAL REINF. @ LOCATION "A"	ADDITIONAL REINF. @ LOCATION "B"	REMARKS
					SIZE	TYPE	SPACING				
LB1											
LB1	17-27	36x39	18-#11	18-#11	#6	2	4"				2 LAYERS
LB1	9-16	42x39	24-#11	24-#11	#6	3	6"				3 LAYERS
LB2											
LB2	67-71	24x39	10-#11	10-#11	#6	1	6"				2 LAYERS
LB2	61-65	36x39	14-#11	14-#11	#6	2	6"				2 LAYERS
LB2	30-60	48x39	18-#11	18-#11	#6	3	4"				2 LAYERS
LB2	29	36x39	24-#11	24-#11	#6	3	4"				3 LAYERS
LB2	17-27	36x39	16-#11	16-#11	#6	2	6"				2 LAYERS
LB2	9-16	42x39	16-#11	16-#11	#6	3	6"				2 LAYERS
LB2	6-7	42x36	20-#11	20-#11	#6	3	6"				2 LAYERS
LB2	5	42x24	10-#11	10-#11	#5	3	6"				2 LAYERS
LB2	4	42x36	16-#11	16-#11	#6	3	8"				2 LAYERS
LB3											
LB3	25-27	42x39	16-#11	16-#11	#6	3	6"				2 LAYERS
LB3	17-24	36x39	20-#11	20-#11	#6	2	8"				2 LAYERS
LB3	9-16	42x39	16-#11	16-#11	#6	3	6"				
LB4 -LB5											
LB4	21-27	48x39	30-#11	30-#11	#7	4	4"				3 LAYERS
LB4	17-20	42x39	20-#11	20-#11	#6	3	6"				2 LAYERS
LB4	15-16	36x39	18-#11	18-#11	#6	2	6"				2 LAYERS
LB4	9-14	36x39	18-#11	18-#11	#6	2	6"				2 LAYERS
LB4	6-7	30x48	12-#11	12-#11	#6	2	6"				2 LAYERS
LB4	5	30x36	12-#11	12-#11	#5	2	6"				2 LAYERS
LB4	4	30x36	15-#11	15-#11	#5	2	8"				2 LAYERS
LB4	1	36x18	6-#11	6-#11	#5	2	8"				
LB4	CELLAR	36x25	12-#11	12-#11	#5	2	8"				2 LAYERS
LB5											
LB5	CELLAR	35 1/2x104 3/4									
LB6											
LB6	25-27	48x39	24-#11	24-#11	#6	4	6"				3 LAYERS
LB6	9-24	42x39	18-#11	18-#11	#6	4	8"				3 LAYERS
LB7											
LB7	25-27	48x39	30-#11	30-#11	#6	4	6"				3 LAYERS
LB7	9-24	42x39	18-#11	18-#11	#6	3	6"				2 LAYERS
LB8											
LB8	60-72	36x39	12-#11	12-#11	#6	2	6"				2 LAYERS
LB8	52-59	42x39	21-#11	21-#11	#6	3	6"				3 LAYERS
LB8	29-49	48x39	27-#11	27-#11	#6	4	4"				3 LAYERS



KEY PLAN



KEY PLAN

5.2

NOTES:

1. FOR LINK BEAM TYPICAL DETAILS, SEE DWG S-945.
2. READ IN CONJUNCTION WITH THE SHEAR WALL PLANS AND ELEVATIONS ON S-940 SERIES.
3. ALL REINFORCEMENTS ARE ASTM A615 GRADE 60 EXCEPT FOR #11 GRADE 75 AND #14 GRADE 80
4. ALL LINK BEAM STEEL SECTION SHALL HAVE MINIMUM Fy = 65ksi U.O.N.
5. STEEL LINK BEAM DEVELOPMENT LENGTH SHOWN SHALL BE AT EACH SIDE OF THE OPENING U.O.N.
6. ALL STUDS ARE 7/8" DIAMETER BY 8" LONG U.O.N.
7. IF WALL TERMINATES AT TOP OF LINK BEAM, PROVIDE ADDITIONAL REINFORMENT SHOWN WITHIN THE WALL.
8. T/C RODS QUANTITY SHOWN SHALL BE PLACED AT TOP OF BOTTOM OF STEEL BEAM U.O.N. SEE TYPICAL DETAIL ON S-945.
9. STAGGER STUDS TO MEET MINIMUM SPACING REQUIREMENT AS PER TYPICAL DETAIL ON DWG S-945.
10. WHERE NOTED WITH WEB REINFORCEMENT AT WEB OPENING, SEE SCHEDULE AND TYPICAL DETAILS
11. WHERE NOTED LINK BEAM CONCRETE STRENGTH UNDER BOTTOM OF FLOOR SLAB SHALL MATCH SHEAR WALL CONCRETE STRENGTH.
12. WHEN LB IS WIDER THAN WALL THICKNESS, DEVELOPMENT LENGTH SHALL BE 4'-0" U.O.N.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889-9005

JBB JAROS BAUM & BOLLES

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JAROS, BAUM & BOLLES
80 PINE STREET, 11TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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NEW YORK, NY 10017
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MRCE
255 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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tel 646.388.9828

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VERTICAL TRANSPORTATION
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INTERIORS
GACHOT
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NEW YORK, NY 10012
tel 646.666.0848

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JAN HIRD POKORNY ASSOCIATES
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tel 914.495.4090

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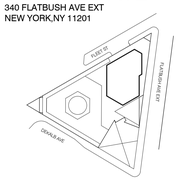

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DATE	ISSUE	NO.	DATE	REVISION
		1	07/13/2016	DOB FILING SET

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DRAWING TITLE

LINK BEAM SCHEDULE

SEAL & SIGNATURE

DATE	07/14/16
PROJECT NO.	1490086
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	

DRAWING NUMBER

S-946.00

PM 7/14/2016 4:47:37

DEPT OF BUILDINGS 320043436 Job Number
B1331870132 Scan Code

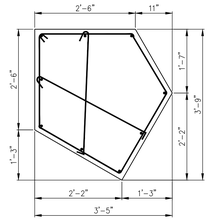
COLUMN SCHEDULE

FLOOR \ COL. NO.	1	1A	2	3	4	5	6	7	8	9	10	11	11A	12	13	14	15	16	17	18	19	20	20A	21	22	23	24	25	26	26A	27	27A	28	28A	29	30	30A	31	31A	33	34	35	37
37TH FLOOR CONTINUES ON S-951												5689				7460 20–#11	8226 20–#11	9216 18–#11	9051 38–#11	5521 18–#11	7021 20–#11	10577			7593	7726	6105	7786 20–#11																		37TH FLOOR CONTINUES ON S-951
36TH FLOOR												5780				7533 28–#11	8346 16–#11	9332 16–#11	9159 40–#11	5609 20–#11	7118	10708 30–#11			7686 28–#11	7871 16–#11	6215	7880 24–#11																		
35TH FLOOR												5871				7606	8467	9448 16 x 24 32 x 42	9267 42–#11 SEE DET.B	5696 22–#11	7215	10838 34–#11			7779 26–#11	8016 24–#11	6325	7974 24–#11																		
34TH FLOOR									SEE DET.B			5962				7678	8587	9553 18–#10 48 x 60	9393 18–#11 18 x 84	5807 32 x 30 8–#11	7312 20–#11	10967			7872	8161	6435	8068 20–#11																		
33RD FLOOR									91 18–#11			6047				7748 28–#11	8701 16–#11	9647 24–#11	9522 30–#11	5920 10–#11	7404 18–#11	11090 34–#11			7961 26–#11	8298 24–#11	6540 26–#11	8157 28–#11																		
32ND FLOOR	f'c= 12000 psi								143			6132				7818 26–#11	8815	9742 24–#11	9641 34–#11	6024 12–#11	7495	11213 40–#11			8050 24–#11	8435 30–#11	6644 26–#11	8246																		
31ST FLOOR									208			6216				7887	8927 16–#11	9836 26–#11	9761 34–#11	6128 14–#11	7585	11334			8138 26–#11	8571 30–#11	6747 28–#11	8334 28–#11																		
30TH FLOOR									270			6299				7957	9039 14–#11	9930 28–#11	9881 36–#11	6233 16–#11	7674 18–#11	11455			8227 26–#11	8707 32–#11	6851	8422 30–#11																		
29TH FLOOR									330			6380				8027 26–#10 108 x 48	9149 14–#11	10025 12–#11 18 x 84	10001 36–#11 32 x 30	6337 8–#11	7762 16–#11	11575			8315 26–#11 32 x 30	8843 32–#11	6955	8509																		
28TH FLOOR									388 16–#11			6380 22–#11																																	
27TH FLOOR			7250 48 x 30 8–#8	6677 20–#11 SEE DET.B	7217 16–#11 32 x 42	7117 8–#11 SEE DET.B	2904 8–#11 SEE DET.B	4941 30 x 42 10–#11 SEE DET.B	1727 18–#11 20 x 60	7415 20 x 60 14–#11	4986 48 x 30 9–#11	8423 48 x 72 22–#11				8173 40 x 34 24–#11		10167 40 x 40 12–#11			7889 SEE DET.A 16–#11	11747 42 x 42 40–#11			8453 36 x 36 24–#11		7105 32 x 30 28–#11	8645 18 x 72 30–#11																42 x 24 8–#8	65
26TH FLOOR			7847	7075	3410	7709 30 x 42 8–#11	2988 28–#11	7886	3066 20 x 60	7885 14–#11	5270 48 x 72 12–#11	8438																															139
25TH FLOOR			9802	6928	3394	7328 8–#11	2994 26–#11	7654	4512	7659	5166	8103 28 x 48 12–#11																															310 8–#8
24TH FLOOR			9900	7031	3465	8782 20–#11	3015	7747	4581	7748	5234	8207 48 x 48 12–#11																															407 4–#8
23RD FLOOR			9998 10–#11	7132	3536	8861 22–#11	3037	7840	4651	7838	5311	8328 48 x 48 12–#11																															501
22ND FLOOR			10096 12–#11	7233	3605	8940 24–#11	3061	7933	4720	7929	6386 SEE DET.A 14–#11	8452 48 x 48 12–#11																															593
21ST FLOOR		92 SEE DET.B 5–#9	10195 14–#11	7335	3674	9019 24–#11	3086	8026	4787	8022	5454 20 x 60 8–#11	8569 20 x 60 12–#11																															682
20TH FLOOR		156	10293 16–#11	7436	3744 16–#11	9099 26–#11	3112 26–#11	8119	4856	8113 16–#11	5546 20–#11	8726 12–#11																															769
19TH FLOOR		219	10391 18–#11	7538	3813 12–#11	9180 28–#11	3140 24–#11	8212	4923 18–#11	8207 18–#11	5631 20–#11	8872 10–#11																															855
18TH FLOOR		285	10490 20–#11	7639	3883 12–#11	9261 30–#11	3168 24–#11	8305	4990 16–#11	8301 20–#11	5716 20–#11	9018 12–#11																															940
17TH FLOOR		349	10588 22–#11	7740	3952 12–#11	9343 32–#11	3197 24–#11	8399	5057 20 x 60	8396 20–#11	5801 20–#11	9165 12–#11																															1023
16TH FLOOR		413	10687 24–#11	7842	4022 12–#11	9425 32–#11	3227	8492	5124	8494 20 x 66 20–#11	5885 8–#11	9311 12–#11																															1106
15TH FLOOR		477	10786 26–#11	7943	4091 10–#11 SEE DET.B	9508 30 x 42 34–#11 SEE DET.A	3257 24–#11	8585	5191	8592	5969 14–#11	9458 12–#11																															1187 4–#9
14TH FLOOR	f'c= 14000 psi	540	10884 28–#11	8045	4166 40 x 30 10–#11	9602 42 x 48 10–#11	3296 48 x 54 24–#11	8679	5257 10–#11	8691	6053 10–#11	9604 12–#11		79 SEE DET.B 5–#9	69 SEE DET.B 5–#9																											1280 36 x 42 12–#9
13TH FLOOR		602	10983 30–#11	8146	4249	9688 38 x 48 16–#11	3341 48 x 60 24–#11	8772 12–#11	5324	8790	6137 20–#11	9751 12–#11		144 5–#9	135																											1392 24 x 24 4–#9
12TH FLOOR		663	11081 32–#11	8247	4326	9771 18–#11	3382	8865 12–#11	5390	8889	6220 14–#11	9898 10–#11		221	200																											1495
11TH FLOOR		724	11180 34–#11	8348	4404	9855 18–#11	3424	8958 16–#11	5457	8989 20–#11	6304 20–#11	10046 14–#11		297	265																											1597
10TH FLOOR		784	11278 36–#11	8449	4481	9939 24–#11	3467	9051 16–#11	5523	9090 24–#11	6387 24–#11	10193 14–#11		373	331																											1699
9TH FLOOR		843	11377 38–#11	8550	4558 10–#11	10025	3511	9145 18–#11	5589	9190	6470 20–#11	10341 18–#11		448	398																											1801
8TH FLOOR	12'-6"	903	11475 48 x 32 40–#8	8651 18–#11	4636	10111 38 x 38 24–#11	3553	9238 30 x 45 18–#11	5654	9292 20 x 66 24–#11	6552 14–#11	10488 18–#11		523	464 5–#9																											1902
7TH FLOOR	24'-0"	4682 30 x 60 28–#11	3788 SEE DET.A 12–#9	11611 54 x 60 40–#8	8811 18–#11	4731	10224 40 x 40 24–#11	3006	9359 36 x 45 18–#11	5740	9417 22 x 60 20–#11	6648 24–#8 20 x 60	10660 24–#11	611 SEE DET.B 5–#9	545 SEE DET.B 5–#11																											2014
6TH FLOOR	16'-0"	5027 26–#11		11779 30–#11	8999 24–#11	4876	10334	4297	7190 24–#11 SEE DET.A	4000 18–#11 24 x 66	9549 24–#11 24 x 84	6805 12–#11 40 x 40	10854 36–#11	766 24 x 24 4–#10	1127 30 x 30 14–#11																											2128
5TH FLOOR	16'-0"	5294 26–#11		14140 40 x 68	9563 24–#11	5227	11054	4553	11566 32–#11	24 x 66	24–#11 24 x 84	12–#11 40 x 40	36–#11	1012	2832																											2422
4TH FLOOR	14'-1"	5394 24–#11		13787 20 x 68	9405 24–#11	5243	10606	4638 24–#11	11333 32–#11 34 x 34	6960 12–#11 30 x 46	9868 24–#11	7175 24–#11	11311	1141	2945																											2451
3RD FLOOR	13'-0"	5588 24–#11		13981	9591 24–#11	5424	10752	4810 20–#11	11520 40–#11	7139	10027 24–#11	7359 12–#11	11528 36–#11	1371	3121																											2571 4–#9
2ND FLOOR	18'-6"	5787 22–#11		14187 30–#11	9783 30–#11	5611	10909	4987	11717	7325	10193 30–#11	7547 16–#11	11753 42–#11	1602	3288																											2695 8–#9
1ST FLOOR	17'-6"	5990 20–#11		14396 40–#11	9982 36–#11	5803	11064 24–#11	5167	11917 40–#11	7516 36 x 45	10361 12–#11	7743 32–#11	11982 16–#11	1840	3473 42–#11																											2818 8–#9
CELLAR	16'-6"	6190 20–#11		14602 64 x 10 40–#11	10178 36–#11	5993	11218 28–#11	5345 20–#11	12151 56 x 56 40–#11	7706 54 x 54 16–#11	10524 30 x 60 32–#11	7939 20–#11	12210 46–#11	2076 24 x 24 4–#10	3657 30 x 30 14–#11																											2941 24 x 24 12–#9
FOUNDATION	11'-6"	6385 30 x 30 18–#11		14808 30 x 96 40–#11	10384 36–#11 40 x 30	6175 10–#11	11390 40 x 96 32–#11 48 x 20				10692 40 x 96 40–#11	8127 24–#11 96 x 40	12455 46–#11																															
Fnd. (service)		4374	1260	10866	7750	4537	9095	3682	8795	5439	8103	6155	10109	2742	1621	2507																									2239
FLOOR \ COL. NO.	1	1A	2	3	4	5	6	7	8	9	10	11	11A	12	13	14	15	16	17	18	19	20	20A	21	22	23	24	25	26	26A	27	27A	28	28A	29	30	30A	31	31A	33	34	35	37

NOTES:

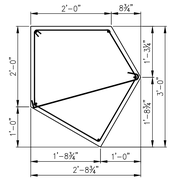
1. FIRST COLUMN DIMENSION SHOWN IN SCHEDULE IS IN THE EAST – WEST LOADS ON PILE CAPS ARE SERVICE LOADS IN KIPS.
2. LOADS ARE GIVEN IN KIPS, AND ARE ULTIMATE LOADS U.O.N.
3. FOR CONCRETE STRENGTH REQUIRED SEE COLUMN SCHEDULES.
4. COLUMN SIZES AND REINFORCEMENT ARE SHOWN ONLY WHERE SIZES START AND STOP. BLANK SPACES IN BETWEEN INDICATE SAME SIZE AS INDICATED ABOVE AND BELOW.
5. HEAVY LINE AT TOP INDICATES TOP OF COLUMN.
7. FOR GENERAL NOTES SEE DWG. FO-001
8. FOR SHEARWALL DETAILS SEE S-940 SERIES DRAWINGS.
9. FOR COLUMN AND REINFORCING DETAILS SEE S-950 SERIES DRAWINGS.
10. BUTTRESS INDICATED AS "B" IN COLUMN SCHEDULE
11. ALL REINFORCEMENT TO BE TENSION SPLICED.

12. INDICATE OUTRIGGER WALL
13. INDICATES COLUMN BEING PICKED UP BY BEAM OR SLAB.
14. INDICATES CHANGES IN HELD FACE OF COLUMN.
15. INDICATES ADDITIONAL LOAD FROM PICK-UP BEAM OR SLAB.



DETAIL A
SCALE: 3/4"=1'-0"

NOTE:
COL. #'s 6,12 & 17



DETAIL B
SCALE: 3/4"=1'-0"

NOTE:
COL. #'s 6,12 & 17

PODIUM COLUMN SCHEDULE

FLOOR \ COL. NO.	100	101	102	103	104	105	106	107	108	109	110	111	112	114	115	116	117
5TH FLOOR																	
4TH FLOOR 14'-1"	113 16 x 24 4–#8	113 24 x 16 4–#8	142 16 x 24 4–#8	168 24 x 16 4–#8	77 24 x 16 4–#8	162 16 x 24 4–#8	125 16 x 24 4–#8	170 16 x 24 4–#8									
3RD FLOOR 13'-0"	226	226	288	346	151	331	249	346									
f'c= 14000 psi 18'-0"	341	341	434	525	226	500	375	522									
2ND FLOOR 17'-6"	460 16 x 24 4–#8	460 24 x 16 4–#8	586 16 x 24 4–#8	709 24 x 16 4–#8	306 24 x 16 4–#8	676 16 x 24 4–#8	507 16 x 24 4–#8	707 16 x 24 4–#8									
1ST FLOOR 16'-6"	658 24 x 48 8–#8	663 24 x 48 8–#8	845 24 x 48 12–#8	976 24 x 48 12–#8	477 24 x 44 12–#8	964 24 x 48 12–#8	757 24 x 48 12–#8	1027 24 x 48 12–#8	657 24 x 24 4–#8	760 24 x 24 4–#8	338 24 x 24 4–#8	852 24 x 48 8–#8	706 24 x 48 8–#8	406 48 x 24 8–#8	1738 24 x 24 4–#8	155 24 x 24 4–#8	1199 24 x 24 4–#8
CELLAR 16'-6"	850 24 x 48 8–#8	857 24 x 48 8–#8	1095 24 x 48 12–#8	1264 24 x 48 12–#8	618 24 x 44 12–#8	1248 24 x 48 12–#8	980 24 x 48 12–#8	1330 24 x 48 12–#8	489 24 x 24 4–#8	489 24 x 24 4–#8				664 24 x 48 8–#8	1975 24 x 24 4–#8	306 24 x 24 4–#8	1310 24 x 24 4–#8
FOUNDATION 11'-6"	662	668	854	751	375	746	591	798	510	596	369	632	505	497	1415	231	1006
Fnd. (service) FLOOR \ COL. NO.	100	101	102	103	104	105	106	107	108	109	110	111	112	114	115	116	117

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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NEW YORK, NY 10279
tel 212.889.9005

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JAROS, BAUM & BOLLES
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AKRF
440 PARK AVE SOUTH 7TH FLOOR
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tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE # 19
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tel 917.661.7800

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INTERIORS
GACHOT
104 BROADWAY SUITE 309
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
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NEW YORK, NY 10010
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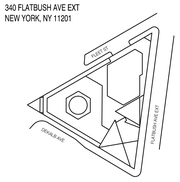

SITE DIAGRAM

DATE	ISSUE
1	07/15/2016 DOB FILING SET

NO.	DATE	REVISION

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NOT FOR CONSTRUCTION

DRAWING TITLE

COLUMN SCHEDULE 1

SEAL & SIGNATURE

STATE OF NEW YORK — SUSAN C. MARIS — 021178 — LICENSED PROFESSIONAL ENGINEER

DATE	04/21/16
PROJECT NO.	1490086
DRAWN BY	CADD
CHECKED BY	SH
DOB NO.	DOB NO.
DRAWING NUMBER	S-950.00

01 January 2000

DEPT OF BUILDINGS 320043536 Job Number
B3800454775 Scan Code

COLUMN SCHEDULE

COL. NO. / FLOOR	1	1A	2	3	4	5	6	7	8	9	10	11	11A	12	13	14	15	16	17	18	19	20	20A	21	22	23	24	25	26	26A	27	27A	28	28A	29	30	30A	31	31A	33	34	35	37
BMU/COOLING TOWER																																												
ROOF																			639 24 x 24 4–#11				947 24 x 24 4–#11		708 24 x 24 4–#11		679 24 x 24 4–#11			713 24 x 24 4–#11		1052 24 x 24 4–#11		919 24 x 24 4–#11			695 24 x 24 4–#11		703 SEE DET 8	651 SEE DET 8	679 24 x 24 8–#11	683 SEE DET 8 5–#9	
72nd FLOOR+32'-0"	16'-0"																		815				1220 24 x 24 4–#11		912		862			918 SEE DET 8 9–#11		1287 24 x 24 4–#11		1034 SEE DET 8 5–#11			1005 24 x 24 4–#11		888 SEE DET 8 5–#11	804	842 8–#11	851	
72nd FLOOR+16'-0"																			1145			1499 26 x 26 8–#11			1116		1044		1115		1528 24 x 24 4–#11		1148			997 SEE DET 9 9–#11	818 SEE DET 8 9–#11		955	1277 4–#9	1017	
72nd FLOOR	16'-0"																		1259 4–#11			1647			1227 4–#11		1335 4–#11		1582		1660 12–#11		1212 5–#11			1149	1061		1041	1369 4–#9	1113	
71st FLOOR	25'-0"																		1452 8–#11			2823			1555 8–#11		1496 8–#11		2589		2587		1852 9–#11			1938	1851		1228 5–#9	1456 4–#10	1204 5–#9	
70th FLOOR	f'c= 8000 psi																		1970			2654			2346 8–#11		2038		2495		2426		1765 24 x 24 8–#11			1897	1822		1722	1511	1281 24 x 24 4–#10	
69th FLOOR																			2029			2735 8–#11			2450 12–#11		2104		2571		2505		1820			1961	1915		1792	1567	1357	
68th FLOOR																			2089			2817 12–#11			2547		2170		2648		2585		1876			2026	2004		1858	1622	1434	
67th FLOOR																			2150 24 x 24 8–#11			2901			2646 24 x 24 12–#11		2238 24 x 24 8–#11		2727		2667 24 x 24 12–#11		1934			2093	2093 SEE DET 8 9–#11		1923 SEE DET 8 5–#10	1677 24 x 24 4–#10	1511 24 x 24 4–#10	
66th FLOOR	12'-0"												1787 26 x 26 8–#11						2340 26 x 118 24–#11			3006 26 x 20 12–#11			2874 26 x 118 24–#11		2696 28 x 28 8–#11	1055 SEE DET 8 5–#11	2833		2775 28 x 28 12–#11		2010	1425 19'-4" x 28'-4" 8–#11	2552	2208 28 x 28 8–#11					
65th FLOOR	36'-0"												1919						2634 26 x 26 8–#11			3415 26 x 32 12–#11			3207 26 x 26 8–#11		3102	1388	3145		3172 8–#11		2262	1659	2848	2485								
64th FLOOR	12'-0"												1988						2520			3226			3103		2801	2018	3036		2992		2179	2249	2737	2448								
63rd FLOOR													2491						2592			3316			3189		3443	2071	3120		3080		2251	2312	2814	2546								
62nd FLOOR													2566						2663			3407			3274		3530	2123	3204		3168		2323	2375 29'-4" x 28'-4" 8–#11	2890 SEE DET 8 9–#11	2644								
61st FLOOR													2640						2733			3497			3359 8–#11		3617 8–#11	2175	3289		3257		2396	2435 24 x 24 8–#11	2966 28 x 28 8–#11	2743								
60th FLOOR													2715						2804			3589			3445 12–#11		3747 12–#11	2268	3395		3346		2469	2494 8–#11	3042	2834								
59th FLOOR													2790						2875			3680			3530 12–#11		3866 12–#11	2354	3496		3435		2542	2554 4–#11	3118	2926								
58th FLOOR													2865						2945			3771			3616 14–#11		3986 16–#11	2440	3598 9–#11		3524		2615	2613	3194	3019								
57th FLOOR													2940						3016			3862 12–#11			3700 26 x 26 14–#11		4106 28 x 28 16–#11	2527 SEE DET 8 5–#11	3699 SEE DET 8 12–#11		3613 8–#11		2688	2673	3270	3111								
56th FLOOR													3015						3087			3953 16–#11			3786 28 x 28 14–#11		4228 18 x 56 8–#11	2609 24 x 24 8–#11	3799 28 x 28 12–#11		3702 12–#11		2761	2733 4–#11	3346	3205								
55th FLOOR													3131						3157 8–#11			4044			3871		4351	2692	3898 12–#11		3791		2833	2816 8–#11	3443	3304								
54th FLOOR													3238 12–#11						3227 12–#11			4134 16–#11			3955 14–#11		4473	2774	3998 16–#11		3879		2905	2892 8–#11	3534 8–#11	3397								
53rd FLOOR													3344						3296 20–#11			4223 20–#11			4038 16–#11		4595	2857 8–#11	4096		3966 12–#11		2976 8–#11	2968 8–#11	3624 12–#11	3489								
52nd FLOOR													3450						3364			4312 26 x 32 20–#11			4121		4716	2940 10–#11	4194		4053 14–#11		3045 12–#11	3044 12–#11	3713	3581 8–#11								
51st FLOOR	25'-0"												3554 26 x 26 12–#11						3474 26 x 26 20–#11			4629 96 x 51 20–#11			4239 28 x 28 16–#11		4834 18 x 56 8–#11	3040	4314		4161		3131	3138	3822 28 x 28 12–#11	3695 28 x 28 12–#11								
50th FLOOR	36'-0"											4727 36 x 30 8–#11				6657 SEE DET 42	4253 36 x 64 8–#11	8119 28 x 96 28–#11	3880 SEE DET 42 20–#11	2707 SEE DET 42 8–#11	3880 SEE DET 42 8–#11	5755 96 x 51 44–#11		6625 SEE DET 42 36–#11	4653 36 x 64 20–#11	2037 SEE DET 42 8–#11	5330 18 x 72 10–#11	3371 24 x 24 10–#11	4712 28 x 28 16–#11	4617 28 x 28 14–#11	3433 24 x 24 12–#11		3459 24 x 24 12–#11								
49th FLOOR	24'-0"												4859			6767 36–#11	4381 36 x 64 8–#11	8248 28–#11	5321 20–#11	2841 8–#11	4014 8–#11	5166 40 x 40 28–#11		6746 36–#11	4637	3136	5476																
48th FLOOR	12'-0"												4690			6666 34–#11	6961 36 x 64 26–#11	8003 26–#11	7889 24–#11	4571 12–#11	5965 26–#11	9187		6676 34–#11	6522 16–#11	5099	4382																
47th FLOOR													4776			6736	7048 26–#11	8083	7985	4653	6056	9304		6752	6613 20–#11	5179	6864																
46th FLOOR													4862			6805 SEE DET 34 34–#11	7136 36 x 64 24–#11	8164 26–#11	8083	4736 12–#11	6147 26–#11	9424		6829 34–#11	6704 20–#11	5258 22–#11	6951																
45th FLOOR													4953			6878 40 x 34 34–#11	7254 36 x 76 24–#11	8280 26–#11	8189 24–#11	4822 10–#11	6242 24–#11	9549		6908 32–#11	6802 24–#11	5342 20–#11	7042																
44th FLOOR	f'c= 12000 psi												5044			6951 32–#11	7382 24–#11	8404 24–#11	8296 24–#11	4909 24–#11	6339 24–#11	9676		6988	6899 24–#11	5426	7133																
43rd FLOOR													5136			7023	7502 22–#11	8520 22–#11	8403 30–#11	4996	6436	9802 28–#11		7068	6996 26–#11	5511	7225 10–#11																
42nd FLOOR													5228			7096	7623 22–#11	8636 22–#11	8510 30–#11	5084 10–#11	6533 24–#11	9929 30–#11		7148 32–#11	7094 26–#11	5595 20–#11	7318 16–#11																
41st FLOOR													5320			7169 32–#11	7743 22–#11	8752 20–#11	8618 34–#11	5171 12–#11	6630 22–#11	10057 40 x 42 30–#11		7228 SEE DET 42 30–#11	7191 36 x 76 SEE DET 42	5680 22–#11	7411																
40th FLOOR													5412			7242 30–#11	7863 20–#11	8868	8726 34–#11	5259 14–#11	6728	10187 42 x 42 30–#11		7307 36 x 36 30–#11	7290 36 x 76 20–#11	5766 20–#11	7505 16–#11																
39th FLOOR													5505			7314	7984	8984 20–#11	8834 36–#11	5346 16–#11	6826	10317		7406 30–#11	7442	5884	7598 20–#11																
38th FLOOR													5597			7387	8105	9100 18–#11	8942 36–#11	5434 18–#11	6923 22–#11	10447		7500 28–#11	7583	5995	7692																
FOR BALANCE SEE S-951(Service)																																											
FLOOR / COL. NO.	1	1A	2	3	4	5	6	7	8	9	10	11	11A	12	13	14	15	16	17	18	19	20	20A	21	22	23	24	25	26	26A	27	27A	28	28A	29	30	30A	31	31A	33	34	35	37

NOTES:

1. FOR BALANCE OF INFORMATION, SEE S-950.

STEEL COLUMN SCHEDULE

COL. NO. / FLOOR	3–J	3–C	2–K	2–C	5–M	6–H	7–G	9–L	9–E
LEVEL 5 105'-0"			4'-6"						2'-0"
			190 615 WT4 x 90	130 540 WT4 x 90	40 65 T=30	75 120 WT4 x 90 T=385	315 370 WT4 x 90 T=50	230 565 WT4 x 176 T=15	240 610 WT4 x 176 445
LEVEL 4 91'-7"		1'-6"							
LEVEL 3 66'-6"					135	515			250 265
LEVEL 1 38'-4"	WT4 x 426 1405 (COL. #115)	WT4 x 426 1095 (COL. #117)			(COL. #114)	(COL. #112)	WT4 x 342 (COL. #111)	WT4 x 176 (COL. #109)	WT4 x 176 (COL. #108)
SERVICE LOADS	1055	770			100	360	465	185	195
BASE PLATE (Fy=50 ksi)	32x20x2½	30x20x2			26x18x1	28x18x1½	30x20x1½	28x18x1	28x18x1¼
ANCHOR BOLT SEE NOTE						1½"ø			
FLOOR / COL. NO.	3–J	3–C	2–K	2–C	5–M	6–H	7–G	9–L	9–E

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tel 646.666.0846

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JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
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227 WEST 29TH STREET
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tel 212.334.2025

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WHITE PLAINS, NY 10604
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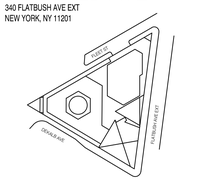

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DRAWING TITLE

COLUMN SCHEDULE 2

SEAL & SIGNATURE

DATE	04/21/16
PROJECT NO.	1490086
DRAWN BY	CADD
CHECKED BY	SH
DOB NO.	DOB NO.

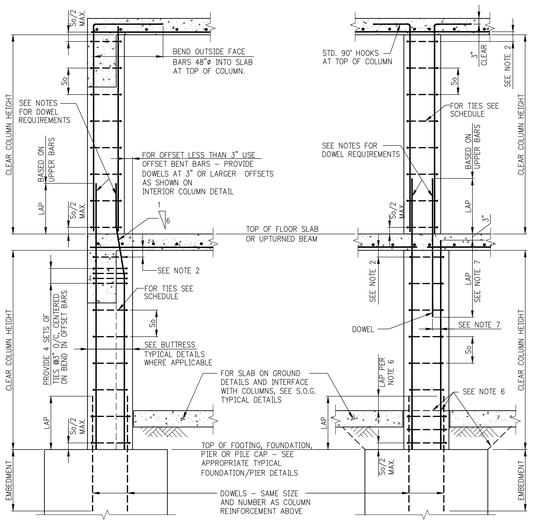
DRAWING NUMBER

S-951.00

STATE OF NEW YORK 09/17/2015 LICENSED PROFESSIONAL ENGINEER

BP January 2002

DEPT OF BUILDINGS 3000243536 Job Number
ESW20020294 Scan Code



EXTERIOR COLUMN OR BUTTRESS

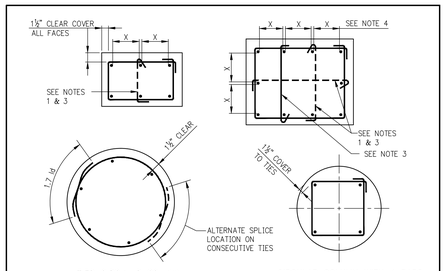
INTERIOR COLUMN

COLUMN DETAILS

COLUMN TIE SCHEDULE			
VERTICAL BAR SIZE	SIZE AND SPACING (So) OF TIES IN INCHES (MAX. SPACING NOT TO EXCEED LEAST COL. DIM.)		
	#3	#4	#5
#5	10	–	–
#6	12	–	–
#7	14	–	–
#8	16	16	–
#9	18	18	–
#10	18	20	–
#11	*	22	–
#14	*	24	27
#18	*	34	30

NOTES:

1. * #3 TIES NOT PERMITTED FOR #11, #14, #18 OR BUNDLED VERTICAL BARS.
2. LOCATE TOP SET OF TIES So/2 MAX. BELOW THE LOWEST HORIZONTAL REINFORCEMENT IN SLAB OR DROP PANEL. WHERE BEAMS FRAME FROM FOUR DIRECTIONS INTO COLUMN, TIES MAY TERMINATE NOT MORE THAN 3" BELOW LOWEST REINFORCEMENT IN SHALLOWEST OF SUCH BEAMS.
3. WHERE AREA OF VERTICAL REINFORCEMENT IN LOWER COLUMN IS GREATER THAN THAT OF UPPER COLUMN, EXTEND AREA OF REINFORCEMENT AT LEAST EQUAL TO THAT OF UPPER COLUMN.
4. WHERE AREA OF REINFORCEMENT IN LOWER COLUMN IS LESS THAN THAT OF UPPER COLUMN, PROVIDE ADDITIONAL DOWELS TO MAKE UP THE DIFFERENCE.
5. ALL LAP SPLICES AND EMBEDMENTS TO BE COMPRESSION UNLESS OTHERWISE NOTED IN COLUMN SCHEDULE.
6. WHERE SLAB IS POURED OVER FOUNDATION PRIOR TO COLUMN, VERTICAL REINFORCEMENT AND DOWEL LAP TO START AT TOP OF SLAB.
7. IF OFFSET OF DOWEL IS MORE THAN 6", LAP SHALL BE TWICE THE COMPRESSION DEVELOPMENT LENGTH OF THE SMALLER BAR.



TIED CIRCULAR COLUMN

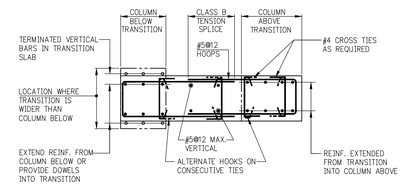
NOTE:
MINIMUM NUMBER OF VERTICAL BARS TO BE 5 FOR CIRCULAR TIES

CIRCULAR COLUMN WITH 4 BARS AND SQUARE TIES

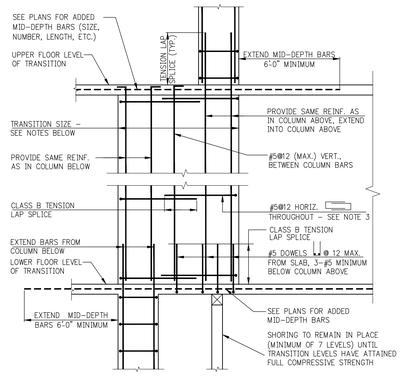
COLUMN REINFORCEMENT AND TIES ARRANGEMENT

NOTES:

1. SINGLE LEG CROSSTIES SHOWN DASHED MAY BE OMITTED WHEN THE VERTICAL BAR IS NO FARTHER THAN 6" CLEAR ON EACH SIDE FROM ADJACENT TIED BARS.
2. WHEN THERE IS A SERIES OF VERTICAL BARS (SUCH AS IN WALL-LIKE COLUMNS) AND BARS ARE SPACED NOMINALLY AT 6" O/C, EVERY OTHER VERTICAL BAR WILL REQUIRE A CROSSTIE.
3. ALTERNATE 90° AND 135° ENDS ON CONSECUTIVE SINGLE LEG CROSSTIES THROUGHOUT HEIGHT OF MEMBER.
4. DETAILER SHALL SPACE BARS EQUIDISTANT ON ALL FACES UNLESS OTHERWISE SHOWN IN DETAILS.



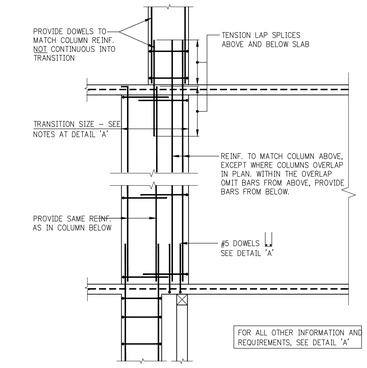
DETAIL C – HORIZONTAL SECTION THROUGH "WALKING" COLUMN TRANSITION



DETAIL A – ELEVATION OF "WALKING" COLUMN TRANSITION

NOTES:

1. FOR DIMENSIONS AND LOCATION OF TRANSITION SEE COLUMN LOCATION PLANS AND/OR COLUMN SCHEDULE.
2. VERTICAL REINFORCEMENT IN TRANSITION TO BE AS SHOWN IN DETAILS 'A' AND 'B' UNLESS THE COLUMN SCHEDULE CALLS FOR SPECIFIC VERTICAL REINFORCEMENT WITHIN THE TRANSITION.
3. IN ADDITION TO #5@12 HORIZONTAL HOOPS, PROVIDE HOOPS AND CROSSTIES TO SATISFY TIEING REQUIREMENTS OF TYPICAL COLUMN DETAILS FOR ALL VERTICAL REINFORCEMENT.



DETAIL B

USE THIS DETAIL WHERE COLUMNS ABOVE AND BELOW TRANSITION OVERLAP IN PLAN

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
45 PINE STREET, 13TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 48TH STREET
NEW YORK, NY 10017
tel 212.887.9888

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GEOTECHNICAL ENGINEER
MRCE
225 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9626

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
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EAST HANOVER, NJ 07936
tel 646.625.3640

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THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 309
NEW YORK, NY 10012
tel 646.666.0646

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6540

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LIGHTING
BOLD
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NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
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tel 212.315.6400

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HACKENSACK, NJ 07601
tel 201.820.2902

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
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NEW YORK, NY 10010
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BURO HAPPOLD
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NEW YORK, NY 10005
tel 212.334.2025

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TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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DRAWING TITLE

TYPICAL COLUMN DETAILS

SEAL & SIGNATURE

DATE	04/21/16
PROJECT NO.	1490086
DRAWN BY	CADD
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2007 Version 01 January

DEPT OF BUILDINGS 320043536 Job Number
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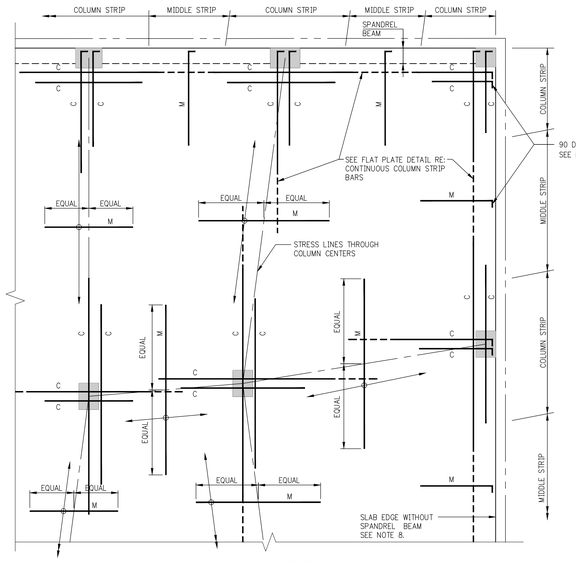
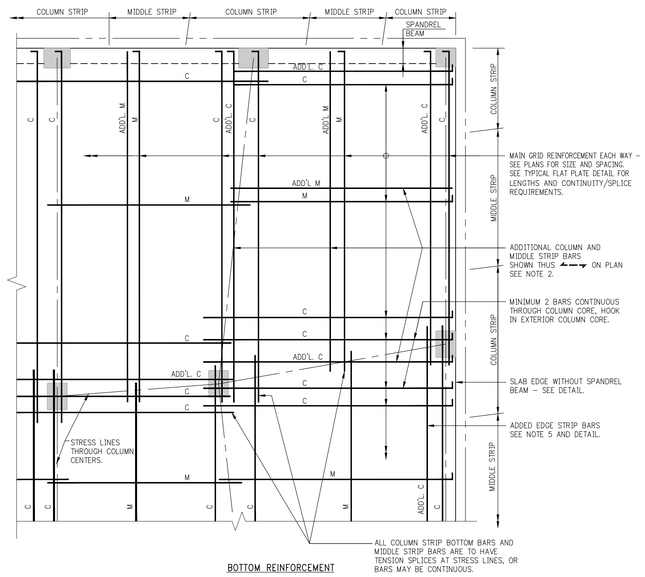


TOP REINFORCEMENT

NOTES FOR TOP REINFORCEMENT

1. 'C' DENOTES COLUMN STRIP BARS (LONG AND SHORT BARS ARE ALTERNATED). 'M' DENOTES MIDDLE STRIP BARS.
2. FOR SIZE, SPACING, NUMBER, ETC. OF REINFORCING BARS, SEE FRAMING PLANS.
3. WHERE COLUMN STRIP BAR LENGTHS ARE SHOWN ON FRAMING PLANS THEY ARE FOR LONGER BARS, WHICH ARE TO BE ALTERNATED WITH SHORTER BARS. SEE TYPICAL FLAT PLATE DETAIL.
4. COLUMN STRIP BARS ARE TO BE CENTERED OVER COLUMNS UNLESS OTHERWISE INDICATED ON PLANS.
5. MIDDLE STRIP BARS ARE TO BE CENTERED OVER STRESS LINES UNLESS OTHERWISE INDICATED ON PLANS.
6. MIDDLE STRIP BARS ARE TO BE SPACED AS SHOWN ON PLANS. FIRST BAR IS TO BE LOCATED A DISTANCE FROM LAST COLUMN STRIP BAR NOT TO EXCEED MIDDLE STRIP BAR SPACING.
7. COLUMN STRIP BARS PARALLEL TO SPANDREL BEAMS ARE TO HAVE FIRST BAR LOCATED AT ONE-HALF SCHEDULED SPACING FROM INSIDE FACE OF BEAM, SIX INCHES MAXIMUM.
8. AT SLAB EDGES WITHOUT SPANDREL BEAMS, SEE TYPICAL DETAIL FOR ADDITIONAL CONTINUOUS EDGE BARS AND FOR COLUMN STRIP BAR PLACEMENT PARALLEL TO SLAB EDGE.
9. PROVIDE 90 DEGREE HOOK AT EVERY DISCONTINUOUS TOP BAR, COLUMN AND MIDDLE STRIPS, AT EDGE OF SLAB, WITH OR WITHOUT SPANDREL BEAMS (2" CLEAR COVER TO HOOK)



BOTTOM REINFORCEMENT

NOTES FOR BOTTOM REINFORCEMENT:

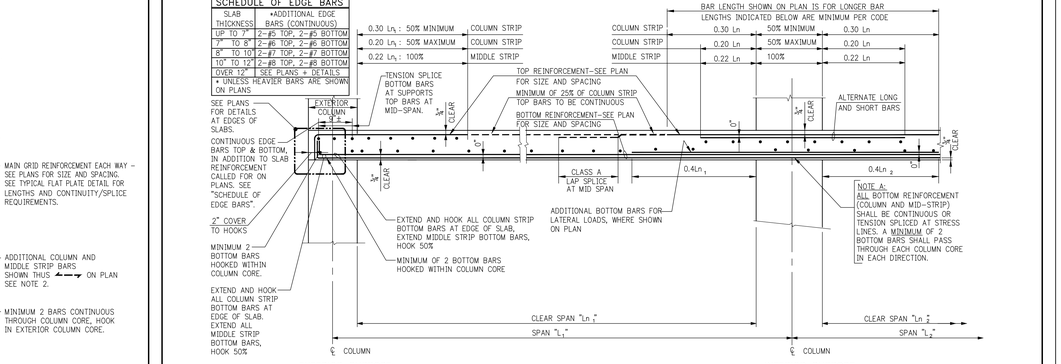
1. 'C' DENOTES A COLUMN STRIP BAR, PART OF MAIN GRID. 'ADD'L. C' DENOTES COLUMN STRIP BARS ADDITIONAL TO MAIN GRID BARS. 'M' DENOTES A MIDDLE STRIP BAR, PART OF MAIN GRID. 'ADD'L M' DENOTES MIDDLE STRIP BARS ADDITIONAL TO MAIN GRID BARS.
2. PLACE ADDITIONAL BARS BETWEEN MAIN GRID BARS. IN COLUMN STRIPS GROUP ABOUT STRESS LINE. IN MIDDLE STRIPS DISTRIBUTE THROUGHOUT STRIP.
3. ALL COLUMN STRIP BOTTOM BARS ARE TO BE CONTINUOUS AND HOOKED 90° AT EDGES OF SLAB OR AT SLAB OPENINGS, OR AT OTHER DISCONTINUITIES.
4. ALL MIDDLE STRIP BOTTOM BARS ARE TO BE CONTINUOUS AND ARE TO EXTEND TO EDGE OF SLAB WHERE 50% OF BARS ARE TO BE HOOKED.
5. IN EDGE STRIP WITHOUT SPANDREL BEAMS START ADDITIONAL BARS TWO INCHES FROM CONTINUOUS EDGE BARS – SEE FLAT PLATE DETAIL AT EDGE OF SLAB.

BAR LENGTH EXTENSIONS REQUIRED AT EPOXY COATED REINFORCEMENT (WHERE SPECIFIED ON PLANS)
1. TO REINFORCING BAR LENGTHS SHOWN ON PLAN OR AS DETERMINED FROM TYPICAL DETAILS, ADD AN ADDITIONAL LENGTH AT EACH END (EXCEPT AT HOOKED BARS) EQUAL TO 50% OF BAR DEVELOPMENT LENGTH (SEE TABLE #2)
2. DEVELOPMENT LENGTHS AND LAP SPLICE LENGTHS SHOWN ARE TO BE INCREASED, IN CONFORMANCE WITH TABLES 1 & 2 IN TYPICAL DETAILS FOR REINFORCEMENT DEVELOPMENT AND SPLICE LENGTHS, OVER VALUES FOR UNCOATED BARS.

FLAT SLAB REINFORCEMENT DETAILS

SCHEDULE OF EDGE BARS	
SLAB THICKNESS	•ADDITIONAL EDGE BARS (CONTINUOUS)
UP TO 7"	2–#5 TOP, 2–#5 BOTTOM
7" TO 8"	2–#6 TOP, 2–#6 BOTTOM
8" TO 10"	2–#7 TOP, 2–#7 BOTTOM
10" TO 12"	2–#8 TOP, 2–#8 BOTTOM
OVER 12"	SEE PLANS + DETAILS

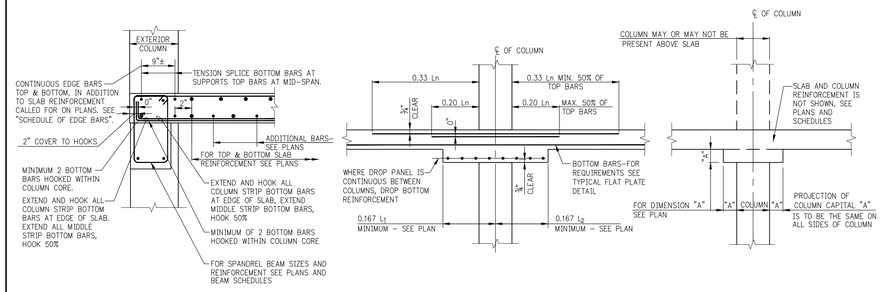
• UNLESS HEAVIER BARS ARE SHOWN ON PLANS

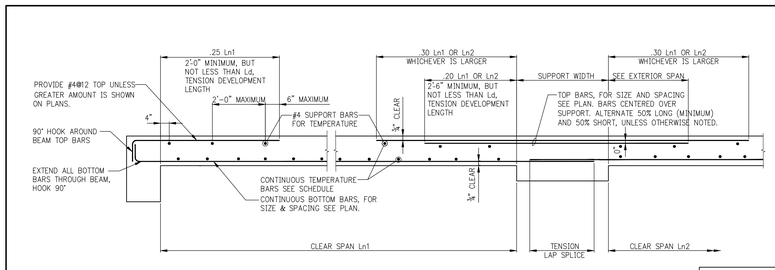


FLAT PLATE DETAIL

(FOR DROP PANEL SEE DETAIL)

AT INTERIOR SUPPORTS USE LARGER OF L_{f1} OR L_{f2} FOR Ln



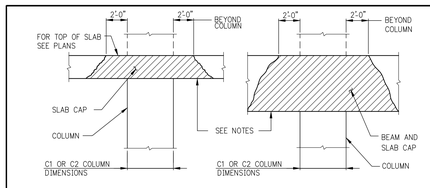


AT SUPPORT WHERE SLAB IS NON–CONTINUOUS

AT SUPPORT WHERE SLAB IS CONTINUOUS

ONE WAY CONCRETE SLAB

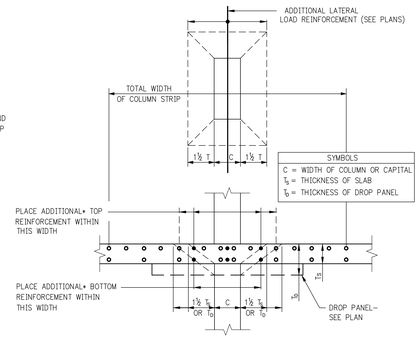
MINIMUM TEMPERATURE REINFORCEMENT (BOTTOM) ONE WAY SLABS	
SLAB THICKNESS	MIN. TEMPERATURE REINFORCEMENT
UP TO 6"	#4@18
6"+ TO 7"	#4@16
7"+ TO 8"	#4@14
8"+ TO 9"	#4@12
9"+ TO 10"	#4@10 OR #5@15
10"+ TO 12"	#4@9 OR #5@14
12"+ TO 14"	#4@8 OR #5@12
14"+ TO 16"	#5@10
OVER 16"	BY DESIGNER



BEAM AND SLAB CONCRETE PLACEMENT AT HIGH STRENGTH CONCRETE COLUMN OR WALL

NOTES:

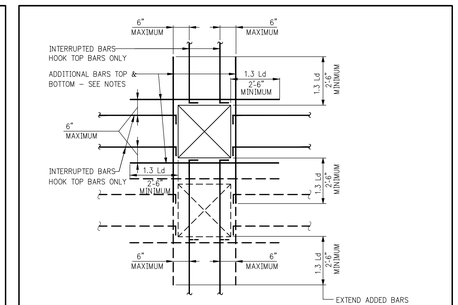
1. IN CONFORMANCE WITH 10.13 OF ACI 318–89 (10.15 in 2002 CODE), USE THIS DETAIL WHEN THE SPECIFIED CONCRETE STRENGTH IN COLUMN/WALL IS GREATER THAN 1.4 TIMES THAT SPECIFIED FOR THE FLOOR SYSTEM.
2. CAP SHALL BE NORMAL–WEIGHT STONE CONCRETE, EQUAL IN STRENGTH TO THAT SPECIFIED FOR THE COLUMN/WALL. CAP SHALL EXTEND BEYOND COLUMN/WALL IN ALL DIRECTIONS AS SHOWN ABOVE.
3. CAP CONCRETE SHALL NOT BE PLACED OVER THE COLUMN/WALL UNTIL COLUMN/WALL CONCRETE IS NO LONGER PLASTIC, BUT IN NO CASE LESS THAN TWO HOURS AFTER COLUMN/WALL CONCRETE PLACEMENT HAS BEEN COMPLETED.
4. THE BALANCE OF CONCRETE IN SLAB AND BEAMS SHALL BE PLACED WHILE CAP CONCRETE IS STILL IN A WORKABLE PLASTIC CONDITION, BEFORE INITIAL SET. RETEMPERING OF CONCRETE WILL NOT BE PERMITTED.
5. IN LIEU OF PLACING TWO DIFFERENT STRENGTHS OF CONCRETE WITHIN THE SAME FLOOR SYSTEM, THE CONTRACTOR MAY ELECT (AT NO ADDITIONAL COST TO THE OWNER) TO PLACE ONE STRENGTH THROUGHOUT THE ENTIRE FLOOR. THE MINIMUM FLOOR CONCRETE STRENGTH REQUIRED BY ACI CODE WOULD BE 0.72 TIMES THE SPECIFIED STRENGTH OF CONCRETE IN THE COLUMNS/WALLS, UP TO 10,000 PSI COLUMN/WALL CONCRETE.
6. WHEN COLUMN/WALL CONCRETE STRENGTH EXCEEDS 10,000 PSI, THE CAP DETAILS SHOWN ABOVE MUST BE FOLLOWED, USING CAPS OF SAME CONCRETE STRENGTH AS IN COLUMNS/WALLS, AND THE STRENGTH SPECIFIED ON THE DRAWINGS FOR THE BALANCE OF THE FLOOR SYSTEM.



ADDITIONAL COLUMN STRIP REINFORCEMENT DUE TO LATERAL LOAD (WIND OR SEISMIC)

NOTE:

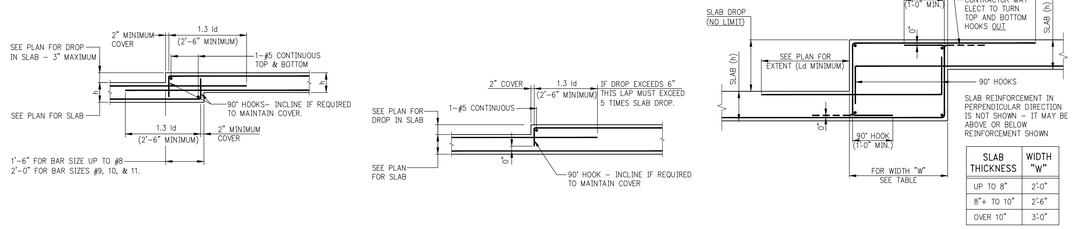
ADDITIONAL TOP OR BOTTOM BARS ARE NOTED ON PLAN WITH AN ASTERISK •.



ADDED REINFORCEMENT AT OPENINGS IN FLOOR SLAB

NOTES:

1. ADDITIONAL BARS EQUAL IN AREA TO AREA OF REINFORCEMENT INTERRUPTED BY OPENING(S) SHALL BE PLACED ALONGSIDE OPENING(S), ONE HALF ON EACH SIDE (#5 MINIMUM DIAMETER), TOP AND BOTTOM.
2. ADD 1–#5 TOP AND BOTTOM EACH SIDE OF OPENING, ADDITIONAL TO REPLACEMENT BARS.
3. WHERE OPENINGS ARE NEAR OR AGAINST EXTERIOR BEAMS OR COLUMNS AND ADDED REINFORCEMENT CAN NOT BE EXTENDED AS SHOWN, HOOK EXTERIOR END.
4. AT OPENINGS SMALLER THAN THE SLAB THICKNESS (10" MAXIMUM), NO ADDITIONAL REINFORCEMENT IS REQUIRED, PLACE NORMAL REINFORCEMENT ALONGSIDE OPENING.
5. Ld = TENSION DEVELOPMENT LENGTH, SEE TABLES.



SLAB THICKNESS	WIDTH "W"
UP TO 8"	2'-0"
8"+ TO 10"	2'-6"
OVER 10"	3'-0"

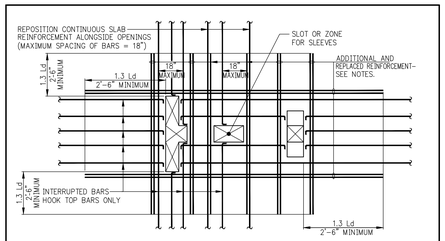
DROP IN TOP AND BOTTOM OF SLAB
(MAXIMUM DROP = 3")

DROP IN TOP OF SLAB

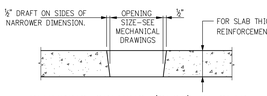
NOTE:
BARS IN OTHER DIRECTION ARE NOT SHOWN – SEE PLANS.

DROP IN TOP AND BOTTOM OF SLAB
(DROP GREATER THAN 3")

ALTERNATIVE DROP IN TOP AND BOTTOM OF SLAB USING SPLICE BARS
(DROP GREATER THAN 3")



SLAB OPENINGS AT BATHROOM



PLUMBING OPENING (SLOT) IN SLAB

NOTES:

1. FOR LOCATIONS AND DIMENSIONS OF PLUMBING OPENINGS SEE MECHANICAL AND/OR ARCHITECTURAL DRAWINGS.
2. FILL ALL OPENINGS WITH CONCRETE AFTER PIPING HAS BEEN INSTALLED.
3. FOR SLAB REINFORCEMENT DETAILS ALONGSIDE OPENINGS SEE DETAIL OF "ADDED REINFORCEMENT AT OPENINGS IN FLOOR SLAB".
4. MINIMUM REQUIREMENTS ARE SHOWN IN THESE DETAILS. SEE PLAN FOR ADDITIONAL REQUIREMENTS.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
259 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS, BAUM & BOLLES
MEP ENGINEER
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

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tel 917.339.9300

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CIVIL ENGINEER
AKRF
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TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.495.4290

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NEW YORK, NY 11201

SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
		1	07/15/2015	DOB FILING SET

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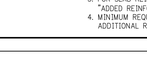
DRAWING TITLE

TYPICAL SUPERSTRUCTURE DETAILS 1

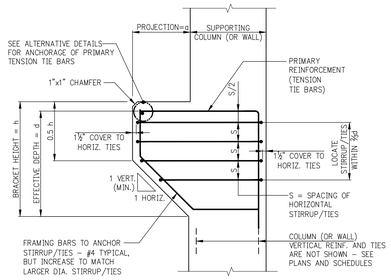
SEAL & SIGNATURE



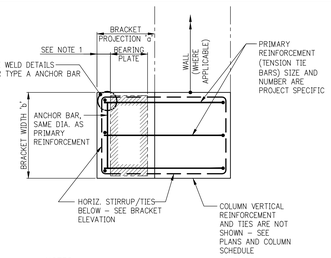
DATE	04/21/16
PROJECT NO.	1490086
DRAWN BY	CADD
CHECKED BY	SH
DOB NO.	DOB NO.
DRAWING NUMBER	S-960.00

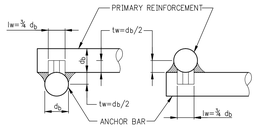
01 January 2000

DEPT OF BUILDINGS 3004435 Job Number
B3000507359 Scan Code



BRACKET

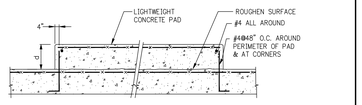




NOTES:
1. BEARING AREA SHALL NOT PROJECT BEYOND INTERIOR FACE OF ANCHOR BAR.
2. PROVIDE POSITIVE ANCHORAGE BETWEEN BEARING PLATE AND BRACKET, SUCH AS STUDS, REBAR WELDED TO PLATE, ETC.

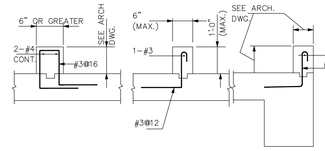
TYPE A: ANCHORAGE OF BRACKET PRIMARY REINFORCEMENT BY WELDED ANCHOR BAR (ACI 11.9.6a)

NOTE:
AT WELDED ANCHORAGE, BOTH PRIMARY REINFORCEMENT AND ANCHOR BAR SHALL CONFORM TO ASTM A706, GRADE 60. ELECTRODES SHALL BE E90XX, LOW HYDROGEN. CONFORM TO AWS D1.4.



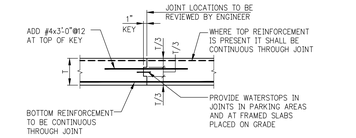
TYPICAL CONCRETE PAD DETAIL

NOTE:
1. FOR PAD EXTENT, DEPTH AND LOCATION SEE ARCH. & MECH. DWG'S.

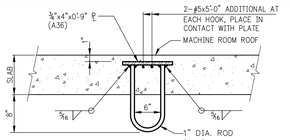


TYPICAL CONCRETE CURB DETAILS

NOTE:
FOR LOCATION SEE ARCH. DWGS

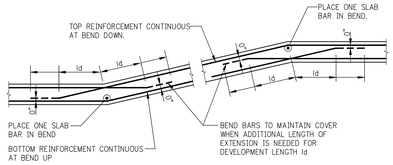


SLAB CONSTRUCTION JOINT



LIFTING HOOK AT ELEVATOR

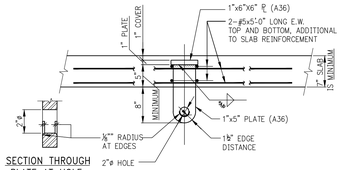
MAXIMUM SERVICE LOAD LIFTING CAPACITY = 2,000 POUNDS. FOR HEAVIER LOADS A SOLID PLATE WITH HOLE MUST BE PROVIDED.



SLAB SLOPES UP SLAB SLOPES DOWN

BEND IN SLAB

NOTE:
BARS IN OTHER DIRECTION ARE NOT SHOWN– SEE PLANS.

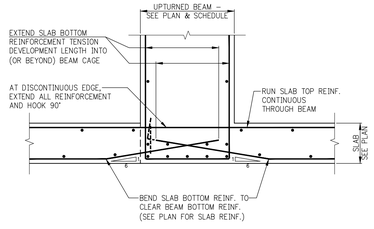


SECTION THROUGH PLATE AT HOLE

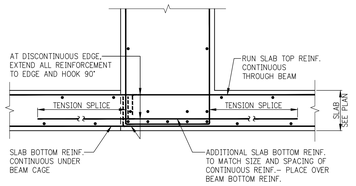
HEAVY LIFTING "PADEYE" PLATE AT ELEVATOR

MAXIMUM SERVICE LOAD LIFTING CAPACITY = 10,000 POUNDS.

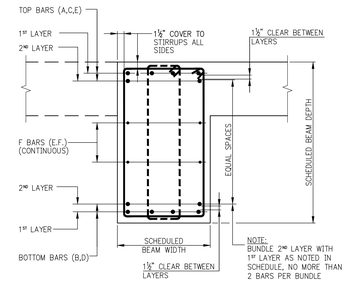
NOTES:
1. SLAB REINFORCEMENT IS NOT SHOWN.
2. PLACE ADDITIONAL #5 BOTTOM BARS IN THE SAME PLANE(S) AS SLAB BOTTOM REINFORCEMENT.



SLAB BOTTOM REINFORCEMENT AT A FULLY UPTURNED BEAM

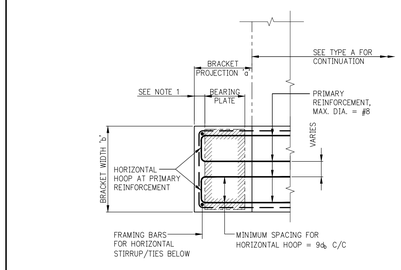


ALTERNATIVE SLAB BOTTOM REINFORCEMENT AT A FULLY UPTURNED BEAM



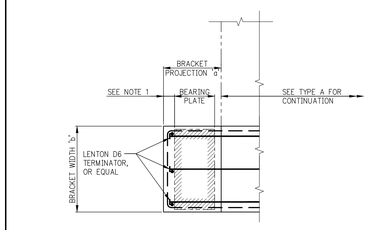
TYPICAL BEAM SECTION

NOTES:
1. WHERE BARS ARE PLACED IN TWO LAYERS THE MINIMUM CLEAR DISTANCE BETWEEN LAYERS SHALL BE 1½".
2. BEAM REINFORCEMENT SHALL BE LOCATED LATERALLY AS REQUIRED TO CLEAR COLUMN VERTICAL REINFORCEMENT.
3. WHERE BEAMS MEET AND CROSS EACH OTHER AT A SUPPORT, THE SHALLOWER BEAM SHALL HAVE ITS TOP REINFORCEMENT PLACED IN THE OUTERMOST (TOP) LAYER.
4. IN THE EVENT ONE CROSSING BEAM IS A CANTILEVER, THE CANTILEVER BEAM SHALL HAVE ITS TOP REINFORCEMENT PLACED IN THE OUTERMOST (TOP) LAYER.
5. WHERE F BARS (FACE OR "SKIN" BARS) ARE INDICATED IN THE BEAM SCHEDULE, THEY SHALL BE UNIFORMLY SPACED ON BOTH BEAM FACES AND SHALL BE CONTINUOUS, WITH STAGGERED TENSION SPLICES.
6. SEE SCHEDULE OF SHEAR REINFORCEMENT FOR DEEP BEAMS (D> Ln/4) FOR MINIMUM STIRRUP AND FACE BAR REQUIREMENTS.
7. THE FIRST STIRRUP AT EACH END SHALL BE PLACED AT ½ THE FIRST SCHEDULED SPACE FROM THE FACE OF SUPPORTING MEMBER. SUBSEQUENT STIRRUPS SHALL BE SPACED AS INDICATED IN THE BEAM SCHEDULE.
8. WHERE MORE THAN ONE STIRRUP IS INDICATED IN A SET, PLACE EACH SET AT THE SCHEDULED SPACING.
9. SCHEDULED STIRRUP SPACING IS THE SAME AT EACH END UNLESS OTHERWISE NOTED.



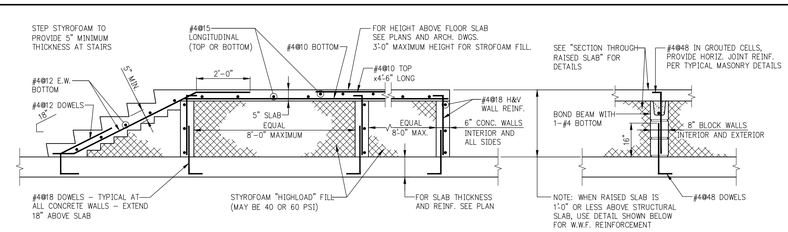
NOTES:
1. BEARING AREA SHALL NOT PROJECT BEYOND INTERIOR FACE OF HORIZONTAL HOOPS.
2. PROVIDE POSITIVE ANCHORAGE BETWEEN BEARING PLATE AND BRACKET, SUCH AS STUDS, REBAR WELDED TO PLATE, ETC.

TYPE B: ANCHORAGE OF BRACKET PRIMARY REINFORCEMENT BY USE OF HORIZONTAL HOOPS (ACI 11.9.6b)



NOTES:
1. BEARING AREA SHALL NOT PROJECT BEYOND INTERIOR FACE OF D6 TERMINATOR.
2. PROVIDE POSITIVE ANCHORAGE BETWEEN BEARING PLATE AND BRACKET, SUCH AS STUDS, REBAR WELDED TO PLATE, ETC.

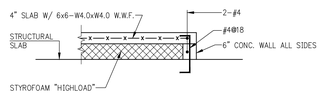
TYPE C: ANCHORAGE OF BRACKET PRIMARY REINFORCEMENT BY LENTON D6 TERMINATORS (OR EQUAL) (ACI 11.9.6c)



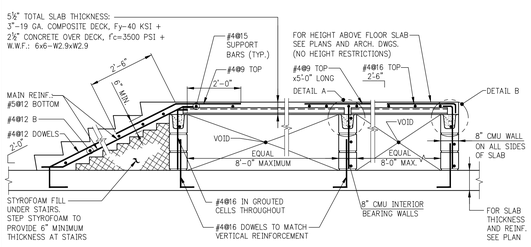
SECTION THROUGH RAISED SLAB FORMED WITH STYROFOAM

NOTES:
1. FOR STAIR TREADS, RISERS, AND WIDTH SEE ARCH. DWGS.
2. WHEN REQUIRED HEIGHT OF RAISED SLAB EXCEEDS 3'-0" USE STEEL DECK FORMS ALTERNATIVE. (STEEL DECK FORMED SLABS HAVE NO HEIGHT RESTICTIONS, MINIMUM OR MAXIMUM)

RAISED SLAB – ALTERNATIVE SUPPORTING WALL

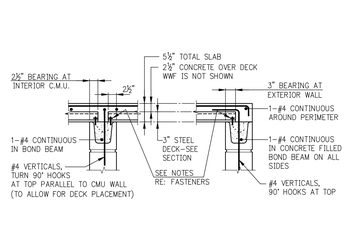


RAISED SLAB – 1'0" OR LESS IN HEIGHT ABOVE STRUCTURAL SLAB



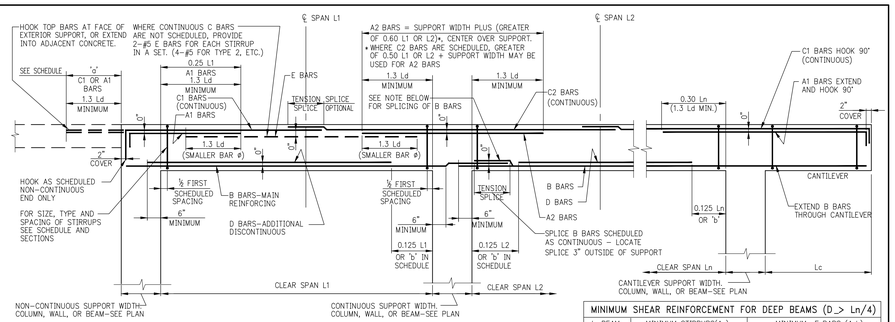
SECTION THROUGH RAISED SLAB ON STEEL DECK FORMS

NOTES:
1. FOR STAIR TREADS, RISERS AND WIDTH SEE ARCH. DWGS.



DETAIL A (INTERIOR SUPPORT) DETAIL B (END SUPPORT)

NOTES:
1. SECURE DECK WITH POWDER ACTUATED FASTENERS AT 12" O/C AT END SUPPORTS AND AT 2'-6" O/C AT SIDE WALLS.
2. USE: A. HILTI "X–U" OR B. POWERS 8MM PINS, PROVIDE WASHERS WITH EITHER.



NOTE:
USE TYPICAL CUTOFF LENGTHS SHOWN UNLESS 'a' OR 'b' DIMENSIONS OR OTHER DIMENSIONS ARE GIVEN IN THE BEAM SCHEDULE

TYPICAL BEAM ELEVATION

MINIMUM SHEAR REINFORCEMENT FOR DEEP BEAMS (D_> Ln/4)

b=BEAM WIDTH	MINIMUM STIRRUPS(Av) (SPACING = S)*	MINIMUM F BARS (Avh) (SPACING = S2)*
UP TO 12"	1—#5 @ 12" MAX.	#4 E.F. @ 12" MAX.
12"+ TO 24"	2—#4 @ 12" MAX.	#4 E.F. @ 12" MAX.
24"+ TO 36"	3—#4 OR 2—#5 @ 12" MAX.	#5 E.F. @ 12" MAX.
36"+ TO 42"	2—#5 @ 12" MAX.	#6 E.F. @ 12" MAX.
42"+ TO 48"	4—#4 OR 3—#5 @ 12" MAX.	#6 E.F. @ 12" MAX.
OVER 48"	⟶ DESIGNER TO PROVIDE ⟶	

* PER ACI 11.8.4 AND 11.8.5, SPACINGS S AND S2 "SHALL NOT EXCEED D/5, NOR 12 INCHES."

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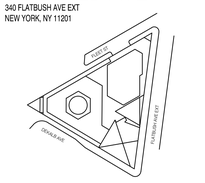
NEW YORK, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
		1	07/13/2016	DOB FILING SET

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DRAWING TITLE

TYPICAL SUPERSTRUCTURE DETAILS 2

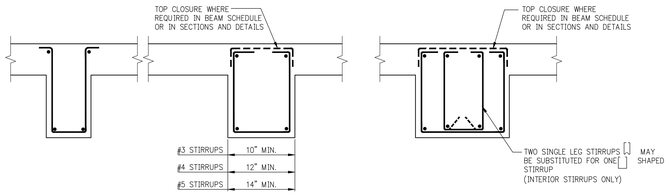
SEAL & SIGNATURE

STATE OF NEW YORK — MICHAEL D. SHOP — LICENSED PROFESSIONAL ENGINEER

DATE	04/21/16
PROJECT NO.	1490086
DRAWN BY	CADD
CHECKED BY	SH
DOB NO.	DOB NO.
DRAWING NUMBER	S-961.00

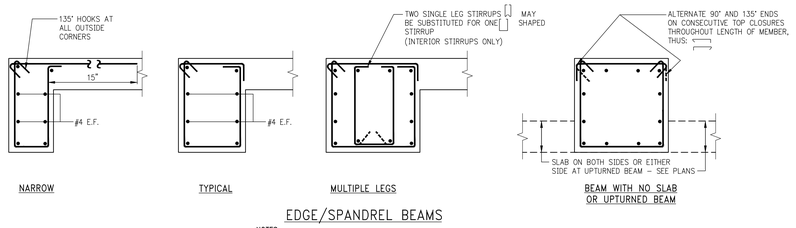
01 January 2000

DEPT OF BUILDINGS 320043438 Job Number
E-597749990 Scan Code



NARROW WEB– TURN HOOKS INTO SLAB | TYPICAL WEB– TURN HOOKS INWARD | MULTIPLE LEGS

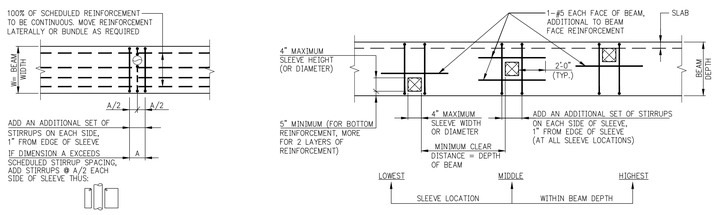
INTERIOR BEAMS



NARROW | TYPICAL | MULTIPLE LEGS | BEAM WITH NO SLAB OR UPTURNED BEAM

EDGE/SPANDREL BEAMS

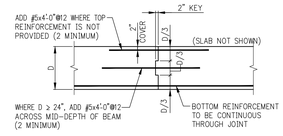
NOTES:
1. TOP CLOSURES REQUIRED IN ALL EDGE/SPANDREL BEAMS.
2. 2–#4 E.F. IS MINIMUM FACE REINF. REQUIRED, UNLESS BEAM SCHEDULE (OR DETAIL) CALLS FOR HEAVIER REINF.



PLAN – VERTICAL SLEEVE IN BEAM | ELEVATION – HORIZONTAL SLEEVES IN BEAM

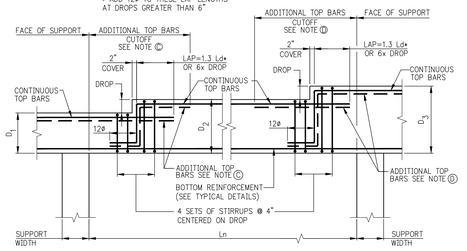
SLEEVE PENETRATIONS THROUGH BEAMS

NOTES:
1. ALL SCHEDULED BEAM REINFORCEMENT (NOT SHOWN) IS TO BE CONTINUOUS
2. NO OPENINGS LARGER THAN 4" (SQUARE OR ROUND) ARE PERMITTED UNLESS SPECIFICALLY INDICATED ON STRUCTURAL PLANS.



ELEVATION – BEAM CONSTRUCTION JOINT

NOTE:
CONTRACTOR MUST SUBMIT LOCATIONS OF ALL CONSTRUCTION JOINTS TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

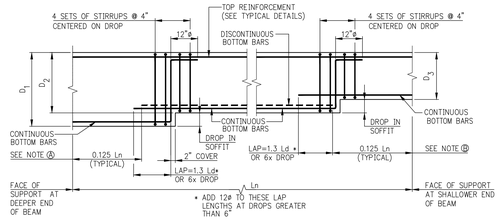


ELEVATION – DROP AT TOP OF BEAM

(SLAB NOT SHOWN)

NOTE Ⓒ:
IF LAP LENGTH OF LOWER ADDITIONAL TOP BARS (D_2) EXTENDS BEYOND THE CUTOFF LENGTH, THEN ADDITIONAL TOP BARS NEED NOT BE PLACED AT TOP OF DEEPER PORTION OF BEAM (D_2)

NOTE Ⓓ:
IF DROP OCCURS BEYOND THE CUTOFF LENGTH OF UPPER LEVEL ADDITIONAL TOP BARS (D_3), THEN ADDITIONAL TOP BARS NEED NOT BE PLACED IN SHALLOWER PORTION OF BEAM (D_2)

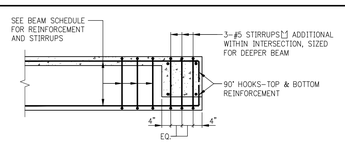


ELEVATION – DROP IN BEAM SOFFIT

(SLAB NOT SHOWN)

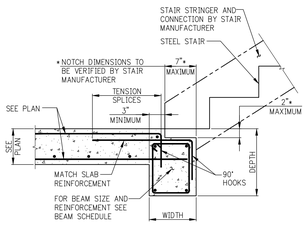
NOTE Ⓐ:
IF DISCONTINUOUS BOTTOM BARS ARE CUT OFF WITHIN SPLICE LENGTH OF CONTINUOUS BOTTOM BARS, THEN DISCONTINUOUS BOTTOM BARS NEED NOT BE CONTINUED AT BOTTOM OF DEEPER PORTION OF BEAM (D_1)

NOTE Ⓑ:
IF DROP OCCURS WITHIN TYPICAL CUTOFF OF DISCONTINUOUS BOTTOM BARS, THEN DISCONTINUOUS BOTTOM BARS NEED NOT BE CONTINUED IN SHALLOWER PORTION OF BEAM (D_2)

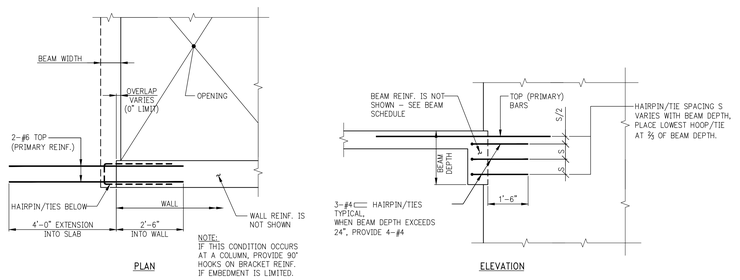


ELEVATION

DEEP BEAM FRAMING INTO SHALLOW BEAM

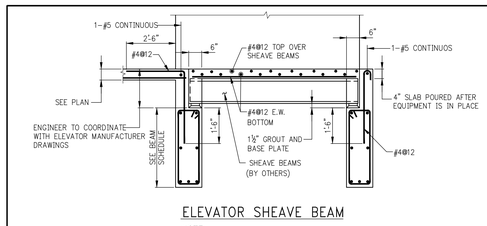


EDGE BEAM AT STEEL STAIR SUPPORT



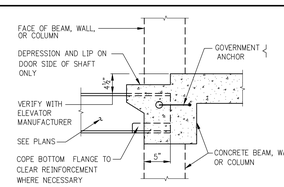
PLAN | ELEVATION

BEAM SUPPORT BRACKET AT END OF WALL

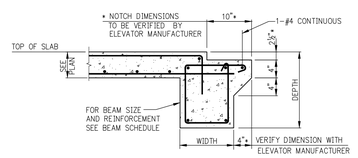


ELEVATOR SHEAVE BEAM

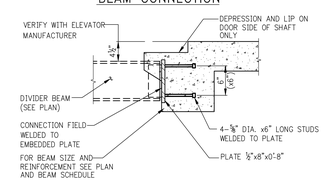
NOTE:
SHEAVE BEAMS TO BE SET BY ELEVATOR CONTRACTOR.



ELEVATOR DIVIDER BEAM CONNECTION



BEAM AT ELEVATOR SILL



ALTERNATIVE ELEVATOR DIVIDER BEAM CONNECTION

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
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MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
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440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9628

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100 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti
FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 309
NEW YORK, NY 10012
tel 646.666.0646

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NEW YORK, NY 10018
tel 212.768.6540

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227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey
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LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINEERING
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HACKENSACK, NJ 07601
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NEW YORK, NY 10018
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tel 914.495.4290

9 DEKALB AVE

340 FLATBUSH AVE EXT
NEW YORK, NY 11201

SITE DIAGRAM

DATE	ISSUE
1	07/15/2015 DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

TYPICAL SUPERSTRUCTURE DETAILS 3

SEAL & SIGNATURE

STATE OF NEW YORK SUSAN L. MARKOS 031731 LICENSED PROFESSIONAL ENGINEER

DATE	04/21/16
PROJECT NO.	1490086
DRAWN BY	CADD
CHECKED BY	SH
DOB NO.	DOB NO.

DRAWING NUMBER

S-962.00

01 January 2000

TABLE #1:
TENSION LAP SPLICE LENGTHS (CLASS B MINIMUM)

TABLE 1.A: ¾" COVER TO OUTER LAYER BARS
OUTER LAYER LAP LENGTHS (IN INCHES)
NOTE: USE TABLE 1.A FOR BAR SPACING IS LESS THAN 4" O/C UP TO #6 @ 5" O/C FOR #7, #10, #11 BAR

BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3	16	16	16	16	16	16	16	16
#4	20	20	20	20	20	20	20	20
#5	24	24	24	24	24	24	24	24
#6	29	29	29	29	29	29	29	29
#7	37	34	34	34	34	34	34	34
#8	43	39	39	39	39	39	39	39
#9	53	46	44	44	44	44	44	44
#10	64	55	49	49	49	49	49	49
#11	75	65	58	54	54	54	54	54

TABLE 1.B: 1½" COVER TO OUTER LAYER BARS
INNER LAYER LAP LENGTHS (IN INCHES)
NOTE: USE TABLE 1.A FOR BAR SPACING IS LESS THAN 4" O/C UP TO #6 @ 5" O/C FOR #9, #10, #11 BAR

BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3	16	16	16	16	16	16	16	16
#4	20	20	20	20	20	20	20	20
#5	24	24	24	24	24	24	24	24
#6	29	29	29	29	29	29	29	29
#7	37	34	34	34	34	34	34	34
#8	43	39	39	39	39	39	39	39
#9	53	46	44	44	44	44	44	44
#10	64	55	49	49	49	49	49	49
#11	75	65	58	54	54	54	54	54

TABLE 1.C: 1½" COVER TO OUTER LAYER BARS
OUTER LAYER LAP LENGTHS (IN INCHES)
NOTE: USE TABLE 1.A FOR BAR SPACING IS LESS THAN 4" O/C UP TO #6 @ 5" O/C FOR #9, #10, #11 BAR

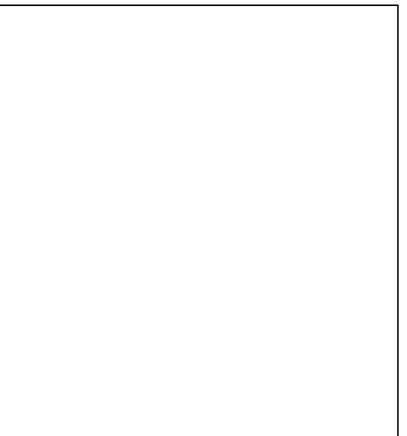
BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3	16	16	16	16	16	16	16	16
#4	20	20	20	20	20	20	20	20
#5	24	24	24	24	24	24	24	24
#6	29	29	29	29	29	29	29	29
#7	37	34	34	34	34	34	34	34
#8	43	39	39	39	39	39	39	39
#9	53	46	44	44	44	44	44	44
#10	64	55	49	49	49	49	49	49
#11	75	65	58	54	54	54	54	54

TABLE 1.D: 1½" COVER TO OUTER LAYER BARS
INNER LAYER LAP LENGTHS (IN INCHES)
NOTE: USE TABLE 1.A FOR BAR SPACING IS LESS THAN 4" O/C UP TO #6 @ 5" O/C FOR #9, #10, #11 BAR

BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3	16	16	16	16	16	16	16	16
#4	20	20	20	20	20	20	20	20
#5	24	24	24	24	24	24	24	24
#6	29	29	29	29	29	29	29	29
#7	37	34	34	34	34	34	34	34
#8	43	39	39	39	39	39	39	39
#9	53	46	44	44	44	44	44	44
#10	64	55	49	49	49	49	49	49
#11	75	65	58	54	54	54	54	54

NOTES FOR TENSION LAP SPLICES

1. REINFORCEMENT IS UNCOATED, WITH f_y=60,000 PSI.
2. CONCRETE IS NORMAL WEIGHT (144~150#/C.F.).
3. "TOP" REINFORCEMENT:
   a. WHERE HORIZONTAL REINFORCEMENT IS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE SPLICE, TABULATED LENGTHS MUST BE MULTIPLIED BY 1.3.
   b. SUCH LOCATIONS INCLUDE, BUT ARE NOT LIMITED TO, BEAMS, SLABS, FOOTINGS, WALLS, AND WALLS.
   c. WALL HORIZONTAL REINFORCEMENT INCLUDE BARS EACH FACE , ADDED BARS, CORNER BARS, "U" BARS, ETC.
   d. "FRESH" CONCRETE INCLUDES ALL CONCRETE CAST BELOW "TOP" REINFORCEMENT WITHIN PERIOD OF TWO HOURS.
4. TABULATED LENGTHS MUST BE MULTIPLIED BY THE FOLLOWING MODIFICATION FACTORS:
   a. LIGHTWEIGHT CONCRETE 1.3
   b. EPOXY-COATED BARS:
      1.) BARS WITH COVER < 3db, OR BARS WITH CLEAR SPACING < 6db 1.5
      2.) ALL OTHER CONDITIONS 1.2
   * FOR EPOXY-COATED "TOP" BARS THE MAXIMUM FOR COMBINED FACTORS = 1.7
5. WHERE TENSION DEVELOPMENT LENGTH (LD) IS REQUIRED ON PLANS OR IN DETAILS, SEE TENSION DEVELOPMENT LENGTH TABLES.
6. CLASS A LAP SPLICE LENGTHS (AS DEFINED AS BY ACI) APPLY APPROPRIATE MODIFICATION FACTORS TO CLASS A SPLICE LENGTHS.
7. ALL #11 BARS TO BE 7SKSI. TABULATED LENGTH MUST BE MULTIPLIED BY 1.25.



PROVIDE MINIMUM COVER AND CLEARANCES SHOWN. USE TABLE 1.A FOR LAP SPLICE LENGTHS.

MULTIPLE LAYERS

TABLE #2:
TENSION DEVELOPMENT LENGTHS (Ld) (IN INCHES)

TABLE 2.A: ¾" COVER TO OUTER LAYER BARS
OUTER LAYER DEVELOPMENT LENGTHS

BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3	12	12	12	12	12	12	12	12
#4	16	14	12	12	12	12	12	12
#5	20	17	15	14	13	13	13	13
#6	24	20	18	17	16	15	14	14
#7	28	24	22	20	19	18	17	16
#8	32	28	25	23	21	20	19	18
#9	36	32	28	26	24	23	22	21
#10	41	36	32	29	27	25	24	23
#11	46	41	36	33	30	28	27	25

NOTE: USE TABLE 2.A FOR BAR SPACING IS LESS THAN 4" O/C UP TO #6 @ 5" O/C FOR #9, #10, #11 BAR

TABLE 2.B: ¾" COVER TO OUTER LAYER BARS
INNER LAYER DEVELOPMENT LENGTHS

BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3	12	12	12	12	12	12	12	12
#4	16	14	12	12	12	12	12	12
#5	20	17	15	14	13	13	13	13
#6	24	20	18	17	16	15	14	14
#7	28	24	22	20	19	18	17	16
#8	32	28	25	23	21	20	19	18
#9	36	32	28	26	24	23	22	21
#10	41	36	32	29	27	25	24	23
#11	46	41	36	33	30	28	27	25

NOTE: USE TABLE 2.A FOR BAR SPACING IS LESS THAN 5" O/C UP TO #6 @ 5" O/C FOR #9, #10, #11 BAR

TABLE 2.C: 1½" COVER TO OUTER LAYER BARS
INNER LAYER DEVELOPMENT LENGTHS

BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3	12	12	12	12	12	12	12	12
#4	16	14	12	12	12	12	12	12
#5	20	17	15	14	13	13	13	13
#6	24	20	18	17	16	15	14	14
#7	28	24	22	20	19	18	17	16
#8	32	28	25	23	21	20	19	18
#9	36	32	28	26	24	23	22	21
#10	41	36	32	29	27	25	24	23
#11	46	41	36	33	30	28	27	25

NOTE: USE TABLE 2.A FOR BAR SPACING IS LESS THAN 5" O/C UP TO #6 @ 5" O/C FOR #9, #10, #11 BAR

TABLE 2.D: 1½" COVER TO OUTER LAYER BARS
INNER LAYER DEVELOPMENT LENGTHS

BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3	12	12	12	12	12	12	12	12
#4	16	14	12	12	12	12	12	12
#5	20	17	15	14	13	13	13	13
#6	24	20	18	17	16	15	14	14
#7	28	24	22	20	19	18	17	16
#8	32	28	25	23	21	20	19	18
#9	36	32	28	26	24	23	22	21
#10	41	36	32	29	27	25	24	23
#11	46	41	36	33	30	28	27	25

NOTE: USE TABLE 2.A FOR BAR SPACING IS LESS THAN 5" O/C UP TO #6 @ 5" O/C FOR #9, #10, #11 BAR

NOTES FOR TENSION DEVELOPMENT LENGTHS (Ld)

1. REINFORCEMENT IS UNCOATED, WITH f_y=60,000 PSI.
2. CONCRETE IS NORMAL WEIGHT (144~150#/C.F.).
3. "TOP" REINFORCEMENT:
   a. WHERE HORIZONTAL REINFORCEMENT IS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH, TABULATED LENGTHS MUST BE MULTIPLIED BY 1.3.
   b. SUCH LOCATIONS INCLUDE, BUT ARE NOT LIMITED TO, BEAMS SLABS, FOOTINGS, WALLS, AND WALLS.
   c. WALL HORIZONTAL REINFORCEMENT INCLUDE BARS EACH FACE , ADDED BARS, CORNER BARS, "U" BARS, ETC.
   d. "FRESH" CONCRETE INCLUDES ALL CONCRETE CAST BELOW "TOP" REINFORCEMENT WITHIN PERIOD OF TWO HOURS.
4. TABULATED LENGTHS MUST BE MULTIPLIED BY THE FOLLOWING MODIFICATION FACTORS:
   a. LIGHTWEIGHT CONCRETE 1.3
   b. EPOXY-COATED BARS:
      1.) BARS WITH COVER < 3db, OR BARS WITH CLEAR SPACING < 6db 1.5
      2.) ALL OTHER CONDITIONS 1.2
   * FOR EPOXY-COATED "TOP" BARS THE MAXIMUM FOR COMBINED FACTORS = 1.7
5. WHERE TENSION DEVELOPMENT LENGTH (Ld) IS REQUIRED ON PLANS OR IN DETAILS, SEE TENSION DEVELOPMENT LENGTH TABLES.
6. CLASS A LAP SPLICE LENGTHS (AS DEFINED BY ACI) APPLY APPROPRIATE MODIFICATION FACTORS TO CLASS A SPLICE LENGTHS.
7. ALL #11 BARS TO BE 75KSI. TABULATED LENGTH MUST BE MULTIPLIED BY 1.25.

TABLE #3
TENSION DEVELOPMENT LENGTHS FOR STANDARD END HOOKS (idh)
(LENGTHS IN INCHES)

BAR SIZE	CONCRETE STRENGTH (PSI)							
	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000
#3	9	7	7	6	6	6	6	6
#4	11	10	9	8	7	7	7	6
#5	14	12	11	10	9	9	8	8
#6	17	15	13	12	11	10	10	9
#7	19	17	15	14	13	12	11	11
#8	22	19	17	16	15	14	13	12
#9	25	22	19	18	16	15	15	14
#10	28	24	22	20	19	17	16	16
#11	31	27	24	22	21	19	18	17
#18	50	43	38	35	33	31	29	27

1. LAP SPLICES ARE NOT PERMITTED.
2. LAP SPLICES OF #14 AND #18 BARS PER ACI 318 (12.14.3).

TABLE #4
COMPRESSION LAP SPLICES

BAR SIZE	GRADE OF REINFORCEMENT	
	60 KSI (60 DIA.)	75 KSI (44 DIA.)
#3	12	22
#4	15	28
#5	19	35
#6	23	42
#7	27	49
#8	30	56
#9	34	62
#10	38	70
#11	43	79
#18	76	140

1. LAP SPLICES ARE NOT PERMITTED.
2. LAP SPLICES OF #14 AND #18 BARS PER ACI 318 (12.16.3).

NOTES:

1. TABLE #3 BASED UPON ACI 12.5.2. ASSUMING GRADE 60 REINFORCEMENT AND NORMALWEIGHT CONCRETE.
2. PER ACI 12.5.3 (a), FOR #11 AND SMALLER BARS, IT COVER TO BAR ON BAR EXTENSION BEYOND HOOK NOT LESS THAN 2 INCHES. A MODIFICATION FACTOR OF .5 MAY BE APPLIED MINIMUM idh SHALL NOT BE LESS THAN 8db NOR 6 INCHES.

TABLE 2.D: 1½" COVER TO OUTER LAYER BARS
INNER LAYER DEVELOPMENT LENGTHS
NOTE: USE TABLE 2.A FOR BAR SPACING IS LESS THAN 4" O/C UP TO #6 @ 5" O/C FOR #9, #10, #11 BAR

BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3	12	12	12	12	12	12	12	12
#4	16	14	12	12	12	12	12	12
#5	20	17	15	14	13	13	13	13
#6	24	20	18	17	16	15	14	14
#7	28	24	22	20	19	18	17	16
#8	32	28	25	23	21	20	19	18
#9	36	32	28	26	24	23	22	21
#10	41	36	32	29	27	25	24	23
#11	46	41	36	33	30	28	27	25

NOTE: USE TABLE 2.A FOR BAR SPACING IS LESS THAN 5" O/C UP TO #6 @ 5" O/C FOR #9, #10, #11 BAR

TABLE 2.C: 1½" COVER TO OUTER LAYER BARS
INNER LAYER DEVELOPMENT LENGTHS

BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3	12	12	12	12	12	12	12	12
#4	16	14	12	12	12	12	12	12
#5	20	17	15	14	13	13	13	13
#6	24	20	18	17	16	15	14	14
#7	28	24	22	20	19	18	17	16
#8	32	28	25	23	21	20	19	18
#9	36	32	28	26	24	23	22	21
#10	41	36	32	29	27	25	24	23
#11	46	41	36	33	30	28	27	25

NOTE: USE TABLE 2.A FOR BAR SPACING IS LESS THAN 5" O/C UP TO #6 @ 5" O/C FOR #9, #10, #11 BAR

TABLE 2.B: ¾" COVER TO OUTER LAYER BARS
INNER LAYER DEVELOPMENT LENGTHS

BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3	12	12	12	12	12	12	12	12
#4	16	14	12	12	12	12	12	12
#5	20	17	15	14	13	13	13	13
#6	24	20	18	17	16	15	14	14
#7	28	24	22	20	19	18	17	16
#8	32	28	25	23	21	20	19	18
#9	36	32	28	26	24	23	22	21
#10	41	36	32	29	27	25	24	23
#11	46	41	36	33	30	28	27	25

NOTE: USE TABLE 2.A FOR BAR SPACING IS LESS THAN 4" O/C UP TO #6 @ 5" O/C FOR #9, #10, #11 BAR

TABLE 2.A: ¾" COVER TO OUTER LAYER BARS
OUTER LAYER DEVELOPMENT LENGTHS

BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3	12	12	12	12	12	12	12	12
#4	16	14	12	12	12	12	12	12
#5	20	17	15	14	13	13	13	13
#6	24	20	18	17	16	15	14	14
#7	28	24	22	20	19	18	17	16
#8	32	28	25	23	21	20	19	18
#9	36	32	28	26	24	23	22	21
#10	41	36	32	29	27	25	24	23
#11	46	41	36	33	30	28	27	25

NOTE: USE TABLE 2.A FOR BAR SPACING IS LESS THAN 4" O/C UP TO #6 @ 5" O/C FOR #9, #10, #11 BAR

TABLE 2.B: ¾" COVER TO OUTER LAYER BARS
INNER LAYER DEVELOPMENT LENGTHS

BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3	12	12	12	12	12	12	12	12
#4	16	14	12	12	12	12	12	12
#5	20	17	15	14	13	13	13	13
#6	24	20	18	17	16	15	14	14
#7	28	24	22	20	19	18	17	16
#8	32	28	25	23	21	20	19	18
#9	36	32	28	26	24	23	22	21
#10	41	36	32	29	27	25	24	23
#11	46	41	36	33	30	28	27	25

NOTE: USE TABLE 2.A FOR BAR SPACING IS LESS THAN 5" O/C UP TO #6 @ 5" O/C FOR #9, #10, #11 BAR

TABLE 2.C: 1½" COVER TO OUTER LAYER BARS
INNER LAYER DEVELOPMENT LENGTHS

BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3	12	12	12	12	12	12	12	12
#4	16	14	12	12	12	12	12	12
#5	20	17	15	14	13	13	13	13
#6	24	20	18	17	16	15	14	14
#7	28	24	22	20	19	18	17	16
#8	32	28	25	23	21	20	19	18
#9	36	32	28	26	24	23	22	21
#10	41	36	32	29	27	25	24	23
#11	46	41	36	33	30	28	27	25

NOTE: USE TABLE 2.A FOR BAR SPACING IS LESS THAN 5" O/C UP TO #6 @ 5" O/C FOR #9, #10, #11 BAR

TABLE 2.D: 1½" COVER TO OUTER LAYER BARS
INNER LAYER DEVELOPMENT LENGTHS

BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3	12	12	12	12	12	12	12	12
#4	16	14	12	12	12	12	12	12
#5	20	17	15	14	13	13	13	13
#6	24	20	18	17	16	15	14	14
#7	28	24	22	20	19	18	17	16
#8	32	28	25	23	21	20	19	18
#9	36	32	28	26	24	23	22	21
#10	41	36	32	29	27	25	24	23
#11	46	41	36	33	30	28	27	25

NOTE: USE TABLE 2.A FOR BAR SPACING IS LESS THAN 5" O/C UP TO #6 @ 5" O/C FOR #9, #10, #11 BAR

TABLE 2.B: ¾" COVER TO OUTER LAYER BARS
INNER LAYER DEVELOPMENT LENGTHS

BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3	12	12	12	12	12	12	12	12
#4	16	14	12	12	12	12	12	12
#5	20	17	15	14	13	13	13	13
#6	24	20	18	17	16	15	14	14
#7	28	24	22	20	19	18	17	16
#8	32	28	25	23	21	20	19	18
#9	36	32	28	26	24	23	22	21
#10	41	36	32	29	27	25	24	23
#11	46	41	36	33	30	28	27	25

NOTE: USE TABLE 2.A FOR BAR SPACING IS LESS THAN 4" O/C UP TO #6 @ 5" O/C FOR #9, #10, #11 BAR

TABLE 2.A: ¾" COVER TO OUTER LAYER BARS
OUTER LAYER DEVELOPMENT LENGTHS

BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3	12	12	12	12	12	12	12	12
#4	16	14	12	12	12	12	12	12
#5	20	17	15	14	13	13	13	13
#6	24	20	18	17	16	15	14	14
#7	28	24	22	20	19	18	17	16
#8	32	28	25	23	21	20	19	18
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#10	41	36	32	29	27	25	24	23
#11	46	41	36	33	30	28	27	25

NOTE: USE TABLE 2.A FOR BAR SPACING IS LESS THAN 4" O/C UP TO #6 @ 5" O/C FOR #9, #10, #11 BAR

TABLE 2.B: ¾" COVER TO OUTER LAYER BARS
INNER LAYER DEVELOPMENT LENGTHS

BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3	12	12	12	12	12	12	12	12
#4	16	14	12	12	12	12	12	12
#5	20	17	15	14	13	13	13	13
#6	24	20	18	17	16	15	14	14
#7	28	24	22	20	19	18	17	16
#8	32	28	25	23	21	20	19	18
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#10	41	36	32	29	27	25	24	23
#11	46	41	36	33	30	28	27	25

NOTE: USE TABLE 2.A FOR BAR SPACING IS LESS THAN 5" O/C UP TO #6 @ 5" O/C FOR #9, #10, #11 BAR

TABLE 2.C: 1½" COVER TO OUTER LAYER BARS
INNER LAYER DEVELOPMENT LENGTHS

BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3	12	12	12	12	12	12	12	12
#4	16	14	12	12	12	12	12	12
#5	20	17	15	14	13	13	13	13
#6	24	20	18	17	16	15	14	14
#7	28	24	22	20	19	18	17	16
#8	32	28	25	23	21	20	19	18
#9	36	32	28	26	24	23	22	21
#10	41	36	32	29	27	25	24	23
#11	46	41	36	33	30	28	27	25

NOTE: USE TABLE 2.A FOR BAR SPACING IS LESS THAN 5" O/C UP TO #6 @ 5" O/C FOR #9, #10, #11 BAR

TABLE 2.D: 1½" COVER TO OUTER LAYER BARS
INNER LAYER DEVELOPMENT LENGTHS

BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3	12	12	12	12	12	12	12	12
#4	16	14	12	12	12	12	12	12
#5	20	17	15	14	13	13	13	13
#6	24	20	18	17	16	15	14	14
#7	28	24	22	20	19	18	17	16
#8	32	28	25	23	21	20	19	18
#9	36	32	28	26	24	23	22	21
#10	41	36	32	29	27	25	24	23
#11	46	41	36	33	30	28	27	25

NOTE: USE TABLE 2.A FOR BAR SPACING IS LESS THAN 5" O/C UP TO #6 @ 5" O/C FOR #9, #10, #11 BAR

TABLE 2.B: ¾" COVER TO OUTER LAYER BARS
INNER LAYER DEVELOPMENT LENGTHS

BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3	12	12	12	12	12	12	12	12
#4	16	14	12	12	12	12	12	12
#5	20	17	15	14	13	13	13	13
#6	24	20	18	17	16	15	14	14
#7	28	24	22	20	19	18	17	16
#8	32	28	25	23	21	20	19	18
#9	36	32	28	26	24	23	22	21
#10	41	36	32	29	27	25	24	23
#11	46	41	36	33	30	28	27	25

NOTE: USE TABLE 2.A FOR BAR SPACING IS LESS THAN 4" O/C UP TO #6 @ 5" O/C FOR #9, #10, #11 BAR

TABLE 2.A: ¾" COVER TO OUTER LAYER BARS
OUTER LAYER DEVELOPMENT LENGTHS

BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3	12	12	12	12	12	12	12	12
#4	16	14	12	12	12	12	12	12
#5	20	17	15	14	13	13	13	13
#6	24	20	18	17	16	15	14	14
#7	28	24	22	20	19	18	17	16
#8	32	28	25	23	21	20	19	18
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#10	41	36	32	29	27	25	24	23
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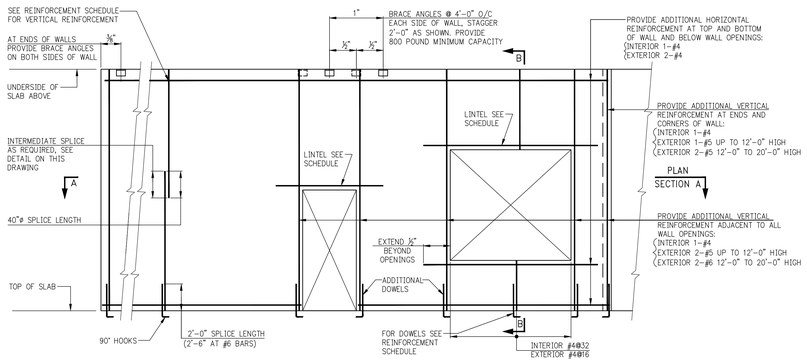
NOTE: USE TABLE 2.A FOR BAR SPACING IS LESS THAN 4" O/C UP TO #6 @ 5" O/C FOR #9, #10, #11 BAR

TABLE 2.B: ¾" COVER TO OUTER LAYER BARS
INNER LAYER DEVELOPMENT LENGTHS

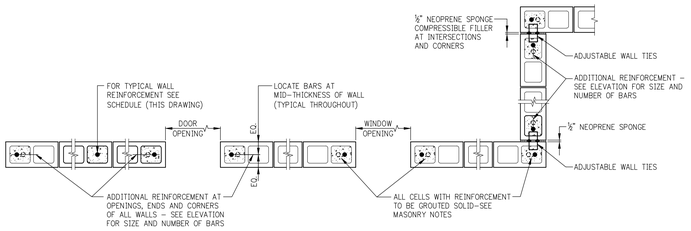
BAR SIZE	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	9,000 PSI	10,000 PSI
#3

DEPT OF BUILDINGS 3009243.00 Job Number
B3003530000 Scan Code

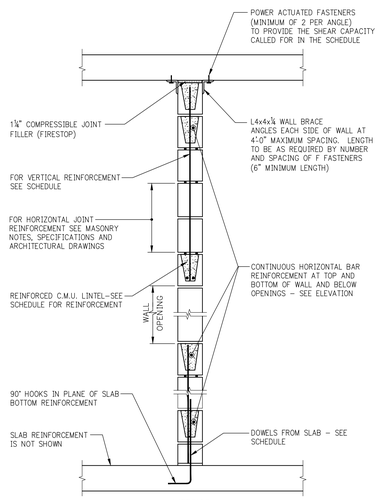


WALL REINFORCEMENT ELEVATION

NOTES:
1. ABOVE DETAIL APPLIES TO ALL MASONRY (C.M.U.) WALLS.
2. FOR MULTIWYTHE EXTERIOR WALLS ABOVE DETAIL APPLIES TO C.M.U. BACKUP WALL ONLY. SEE SECTION BELOW FOR ADDITIONAL INFORMATION



PLAN SECTION A
(FOR DOWELS SEE ELEVATION)



SECTION B

C.M.U. MASONRY NOTES

1. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR COMPLETE REQUIREMENTS FOR C.M.U. MASONRY CONSTRUCTION AND APPEARANCE. DETAILS AND NOTES SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED TO SUPPLEMENT ARCHITECTURAL REQUIREMENTS AND TO DEFINE ELEMENTS WHICH PROVIDE STRUCTURAL STRENGTH AND STABILITY.
2. DETAILS, SECTIONS, SCHEDULES, ETC. AND THESE NOTES, REPRESENT THE MINIMUM REQUIREMENTS FOR STRUCTURAL ADEQUACY. WHERE ARCHITECTURAL REQUIREMENTS DIFFER FROM STRUCTURAL, THE MORE STRINGENT SHALL BE FOLLOWED.
3. CODE: MASONRY WALL CONSTRUCTION SHALL CONFORM TO THE NEW YORK CITY BUILDING CODE AND TO ACI 530/ASCE-5 AS REFERENCED BY THE NYC CODE.
4. MASONRY UNITS SHALL BE LIGHTWEIGHT HOLLOW LOAD BEARING CONCRETE MASONRY (CMU). COMPRESSIVE STRENGTH OF MASONRY F'M SHALL BE A MINIMUM OF 1,500 PSI.
5. MORTAR SHALL BE TYPE M OR S.
6. HORIZONTAL JOINT REINFORCEMENT SHALL BE TRUSS TYPE GALVANIZED COLD-DRAWN STEEL WIRE CONFORMING TO ASTM A 951.
7. PROVIDE HORIZONTAL JOINT REINFORCEMENT IN EVERY OTHER JOINT (16" O.C. VERTICALLY) UNLESS PLANS OR DETAILS CALL FOR CLOSER SPACING OR ADDITIONAL REINFORCEMENT.
8. BAR REINFORCEMENT: ASTM A 615 GRADE 60, PER SCHEDULE. FOR ADDITIONAL REINFORCEMENT SEE WALL REINFORCEMENT ELEVATION.
9. ALL CELLS WITH REINFORCEMENT SHALL BE GROUTED SOLID FOR THE FULL EXTENT OF BAR, VERTICAL AND HORIZONTAL.
10. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI. GROUT SHALL BE "FINE" AS DEFINED BY ASTM C 476.
11. STEEL ANGLES: ASTM A 36. STEEL IN AN EXTERIOR WALL OR EXPOSED TO THE EXTERIOR SHALL BE GALVANIZED.
12. CONTRACTOR SHALL COORDINATE ALL MASONRY WORK WITH WORK OF OTHER TRADES: ARCHITECTURAL, STRUCTURAL, MEP.

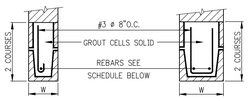
C.M.U. WALL REINFORCEMENT SCHEDULE
(AND LATERAL BRACING LOAD AT TOP)

LOCATION AND HEIGHT OF WALL	MINIMUM BLOCK THICKNESS	VERTICAL REINFORCEMENT	DOWELS FROM SLAB	LATERAL BRACING FORCE (TOP) ↘ #/FOOT	REMARKS
INTERIOR UP TO 10'-0"	4"	#4@8'-0"	#4@8'-0"		
INTERIOR 10'-1" TO 16'-0"	6"	#4@48	#4@48		
INTERIOR 16'-1" TO 20'-0"	8"	#4@48	#4@48		
EXTERIOR UP TO 8'-0"	4"	#4@32	#4@16		
EXTERIOR 8'-1" TO 10'-0"	6"	#4@32	#4@16		
EXTERIOR 10'-1" TO 12'-0"	8"	#4@32	#4@16		
EXTERIOR 12'-1" TO 16'-0"	8"	#4@16	#5@16		
EXTERIOR 16'-1" TO 20'-0"	12"	#4@16	#5@16		
EXTERIOR CANTILEVER (PARAPET, ETC.) UP TO 8'-0"	8"	#4@16	#5@16		

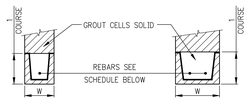
LOOSE LINTEL SCHEDULE
(ANGLES OR W-SHAPE PLUS PLATE)

MASONRY OPENING	ANGLE SIZE PER EACH 4" WIDTH OF MASONRY (OR W + PL)	ANGLE SIZE FOR 6" WIDTH OF MASONRY
UP TO 5'-0"	L3½ x 3½ x 5/16	L6 x 4 x 3/8
5'-1" TO 8'-0"	L6 x 3½ x 5/16	L6 x 4 x ½
8'-1" TO 10'-8"	L6 x 3½ x 3/8	–
10'-9" TO 14'-0"	W8x15 + BOTTOM PL 3/8 x 7 (WELD PLATE TO BOTTOM FLANGE)	–

NOTES:
1. ANGLE LENGTH = MASONRY OPENING PLUS 1'-0" (6" BEARING AT EACH END).
2. ANGLE LONG LEG IS VERTICAL.
3. W8 + PL TO BE USED AT 8" WIDE WALL ONLY.
4. PROVIDE FIREPROOFING ON LINTELS FOR MASONRY OPENINGS GREATER THAN 4'-0", AS REQUIRED BY CODE.
5. JOINTS SHALL NOT BE LOCATED OVER THE MASONRY OPENING.



TWO COURSE (16" DEEP) LINTELS



SINGLE COURSE (8" DEEP) LINTELS

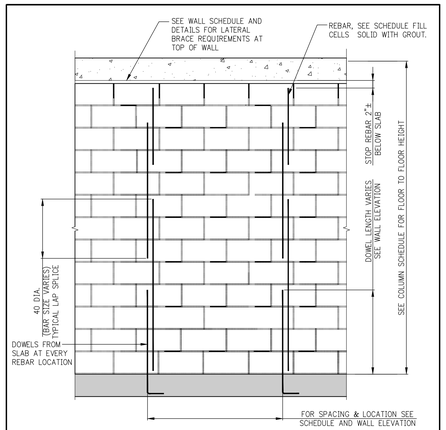
NOTES:
1. PROVIDE BLOCK LINTELS FOR ALL OPENINGS IN INTERIOR BLOCK PARTITIONS, AND EXTERIOR WALLS FOR WHICH STEEL LINTELS ARE NOT SHOWN. REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS. PROVIDE 8" MINIMUM BEARING AT EACH END.
2. W AS PER TABLE (FIRST DIMENSION).
3. GROUT SHALL BE FINE ONLY.

TYPE OF LOADING *	LINTEL SECTION NOMINAL SIZE (IN.)	REQUIRED REINFORCEMENT – CLEAR SPAN							
		3'-4"	4'-0"	4'-8"	5'-4"	6'-0"	6'-8"	7'-4"	8'-0"	10'-0"
WALL LOADS	6x8	1–#4	1–#4	1–#4	2–#4	2–#5	–	–	–	–
	6x16	–	–	–	–	2–#4	2–#4	2–#4	2–#4	2–#5
FLOOR & ROOF LOADS	6x16	1–#4	1–#4	1–#4	1–#5	2–#4	2–#4	2–#5	2–#5	2–#6
WALL LOADS	8x8	1–#4	2–#4	2–#4	2–#4	2–#4	2–#5	2–#6	–	–
	8x16	–	–	–	–	–	–	2–#5	2–#5	2–#6
FLOOR & ROOF LOADS	8x8	2–#4	–	–	–	–	–	–	–	–
	8x16	2–#4	2–#4	2–#4	2–#4	2–#4	2–#4	2–#5	2–#5	2–#6

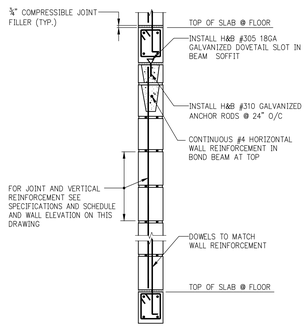
(*) INCLUDES WEIGHT OF LINTEL

NOTES:
1. WALL LOADS ASSUMED 300lbs. PER LINEAR FOOT.
2. FLOOR & ROOF LOADS INCLUDING WALL LOADS ASSUMED 1000lbs. PER LINEAR FOOT.
3. 8" LINTELS ASSUMED TO WEIGH 50#/FT.
4. 16" LINTELS ASSUMED TO WEIGH 100#/FT.
5. IF ACTUAL LOADS EXCEED THOSE ASSUMED, CONTRACTOR IS TO OBTAIN DIRECTION FROM THE ENGINEER.
6. FOR LINTELS OVER 10'-0" LONG, CONTRACTOR IS TO OBTAIN DIRECTION FROM THE ENGINEER.

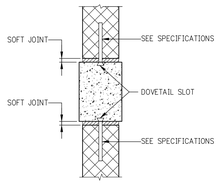
REINFORCED BLOCK LINTEL



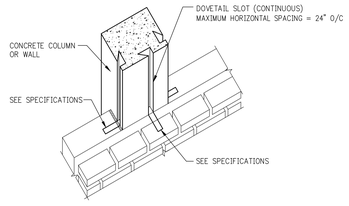
SPLICE LENGTH OF REBAR IN CMU WALL



WALL ANCHORAGE AT BEAMS BETWEEN SCISSOR STAIRS



PART PLAN AT INTERIOR COLUMN SHOWING PARTITION ANCHORAGE



ISOMETRIC SHOWING DOVETAIL SLOT ANCHORS IN CONCRETE COLUMN OR WALL

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.625.3640

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.6000

STRUCTURAL ENGINEER
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VERTICAL TRANSPORTATION
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POOL
TRACE POOL DESIGN
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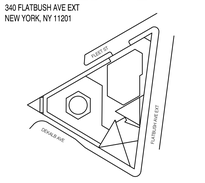
340 FLATBUSH AVE EXT
NEW YORK, NY 11201



SITE DIAGRAM

NO.	DATE	REVISION
1	07/15/2015	DOB FILING SET

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DRAWING TITLE

TYPICAL MASONRY DETAILS

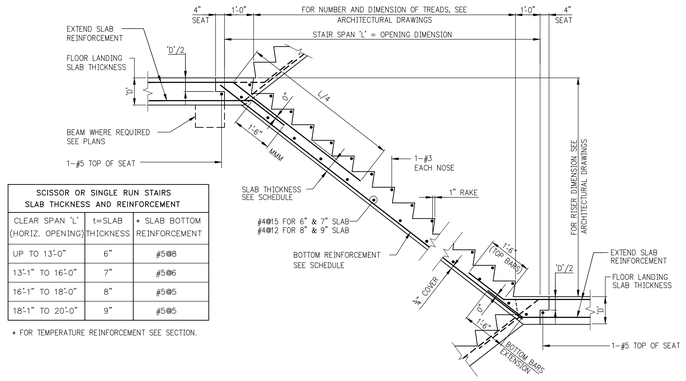
SEAL & SIGNATURE

STATE OF NEW YORK SUSAN L. MARKOS 091719 LICENSED PROFESSIONAL ENGINEER

DATE	04/21/16
PROJECT NO.	1490086
DRAWN BY	CADD
CHECKED BY	SH
DOB NO.	DOB NO.
DRAWING NUMBER	S-965.00

01 January 2000

DEPT OF BUILDINGS 320043536 Job Number
E-SAF20050525 Scan Code

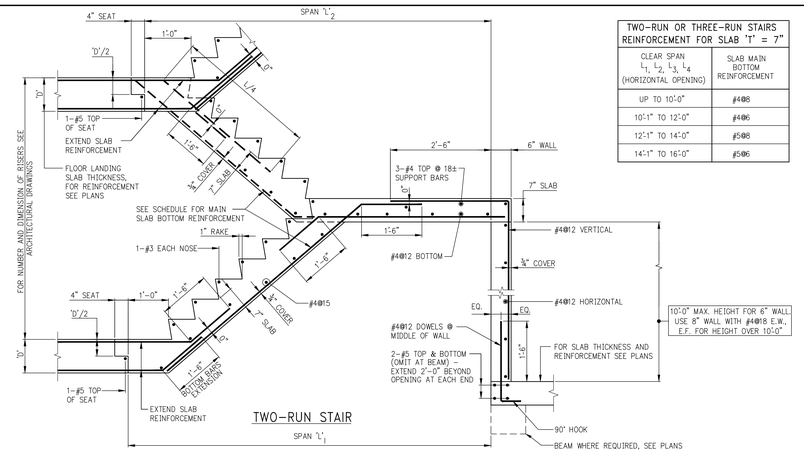


SCISSOR OR SINGLE RUN STAIRS SLAB THICKNESS AND REINFORCEMENT		
CLEAR SPAN 'L' (HORIZ. OPENING)	t=SLAB THICKNESS	• SLAB BOTTOM REINFORCEMENT
UP TO 13'-0"	6"	#5@8
13'-1" TO 16'-0"	7"	#5@6
16'-1" TO 18'-0"	8"	#5@5
18'-1" TO 20'-0"	9"	#5@5

• FOR TEMPERATURE REINFORCEMENT SEE SECTION.

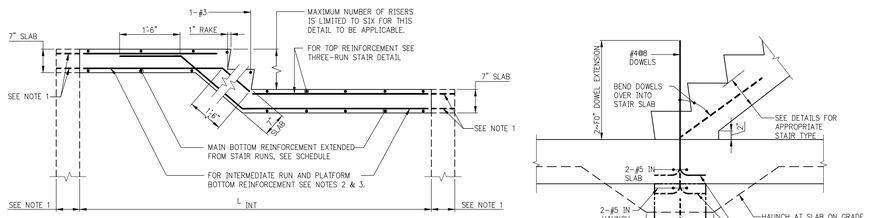
SCISSOR OR SINGLE RUN STAIR

FOR FLOOR REINFORCEMENT EXTENDED INTO STAIR SLAB, SEE FRAMING PLANS.



TWO-RUN OR THREE-RUN STAIRS REINFORCEMENT FOR SLAB 'T' = 7"	
CLEAR SPAN L_1, L_2, L_3, L_4 (HORIZONTAL OPENING)	SLAB MAIN BOTTOM REINFORCEMENT
UP TO 10'-0"	#4@8
10'-1" TO 12'-0"	#4@6
12'-1" TO 14'-0"	#5@8
14'-1" TO 16'-0"	#5@6

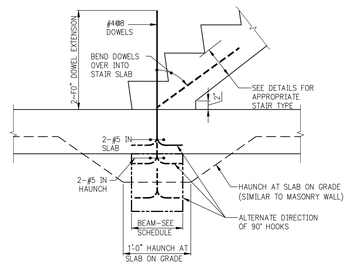
TWO-RUN STAIR



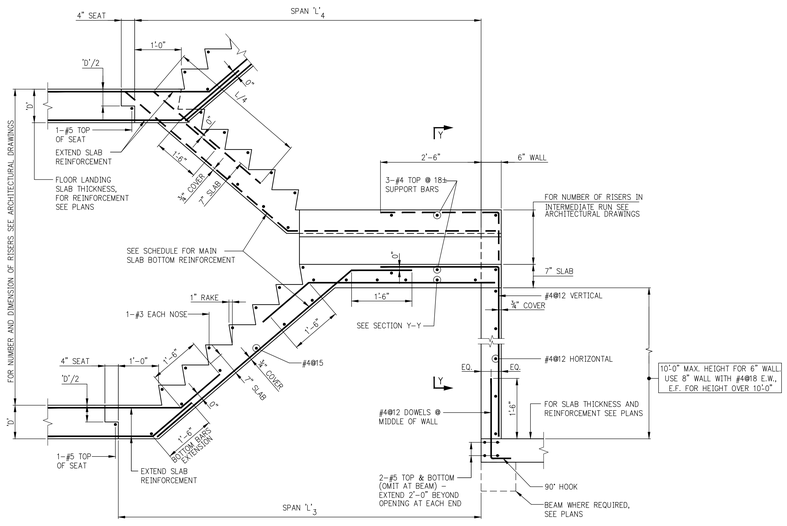
SECTION Y–Y

(AT THREE-RUN STAIR)

NOTES:
1. EXTEND SLAB AND REINFORCEMENT OVER SUPPORT WALLS WHERE WALLS ARE SHOWN ON PLANS.
2. WHERE L_{INT} IS NOT SUPPORTED AT ENDS, PROVIDE: #4@12 BOTTOM
3. WHERE L_{INT} IS SUPPORTED, PROVIDE: #4@8 FOR L_{INT} UP TO 10'-0", #4@6 FOR L_{INT} BETWEEN 10'-1" AND 12'-0". FOR L_{INT} SPANNING MORE THAN 12'-0", DESIGNER TO PROVIDE DETAILS.



BOTTOM OF STAIR–NO SLAB OPENING



THREE–RUN STAIR

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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WSP CANTOR SEINUK
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NEW YORK, NY 10017
tel 212.887.9868

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MRCE
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NEW YORK, NY 10122
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AKRF
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NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 309
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES ARCHITECTURAL PRESERVATION

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JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6540

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227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
1410 BROADWAY, SUITE 506
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2800

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7000

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VIDARIS
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NEW YORK, NY 10010
tel 212.686.5389

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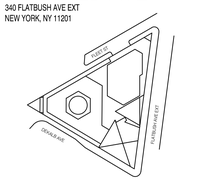
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lehrer TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4090

9 DEKALB AVE

340 FLATBUSH AVE EXT
NEW YORK, NY 11201



SITE DIAGRAM

NO.	DATE	REVISION
1	07/15/2015	DOB FILING SET

DATE ISSUE

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DRAWING TITLE

TYPICAL STAIR DETAILS

SEAL & SIGNATURE

STATE OF NEW YORK SUSAN L. MARCUS LICENSED PROFESSIONAL ENGINEER

DATE	04/21/16
PROJECT NO.	1490086
DRAWN BY	CADD
CHECKED BY	SH
DOB NO.	DOB NO.

DRAWING NUMBER

S-980.00

01 January 2000

DEPT OF BLDGS 320914338 Job Number
E3419930056 Scan Code

DRAWING INDEX

SHEET No.	B-SCAN No. Dwg. No.	SHEET TITLE	23 APR 2016 PO & BOE DOB FILING	15 JULY 2016 DOB FILING SET					
1	M-001.00	HVAC COVER SHEET	●	●					
2	M-002.00	HVAC ABBREVIATIONS AND SYMBOLS	●	●					
3	M-099.00	HVAC FLOOR PLAN- SUBCELLAR	●	●					
4	M-100.00	HVAC FLOOR PLAN- CELLAR	●	●					
5	M-101.00	HVAC FLOOR PLAN- LEVEL 01	●	●					
6	M-102.00	HVAC FLOOR PLAN- LEVEL 02	●	●					
7	M-103.00	HVAC FLOOR PLAN- LEVEL 03	●	●					
8	M-104.00	HVAC FLOOR PLAN- LEVEL 04	●	●					
9	M-105.00	HVAC FLOOR PLAN- LEVEL 05	●	●					
10	M-106.00	HVAC FLOOR PLAN- LEVEL 06	●	●					
11	M-107.00	HVAC FLOOR PLAN- LEVEL 07 MECHANICAL		●					
12	M-108.00	HVAC FLOOR PLAN- LEVEL 08 (TYP. 08-14)		●					
13	M-115.00	HVAC FLOOR PLAN- LEVEL 15 (TYP. 15-21)	●	●					
14	M-122.00	HVAC FLOOR PLAN- LEVEL 22 (TYP. 22-26)		●					
15	M-126.00	HVAC 26TH FLOOR PLAN	●						
16	M-127.00	HVAC FLOOR PLAN- LEVEL 27 MECHANICAL	●	●					
17	M-128.00	HVAC FLOOR PLAN- LEVEL 27 MEZZANINE MECHANICAL		●					
18	M-129.00	HVAC FLOOR PLAN- LEVEL 28 (TYP. 28-33)		●					
19	M-134.00	HVAC FLOOR PLAN- LEVEL 34 (TYP. 34-39)		●					
20	M-140.00	HVAC FLOOR PLAN- LEVEL 40 (TYP. 40-44)		●					
21	M-145.00	HVAC FLOOR PLAN- LEVEL 45 (TYP. 45-48)		●					
22	M-146.00	HVAC 46TH FLOOR PLAN (TYPICAL RESIDENTIAL)	●						
23	M-149.00	HVAC FLOOR PLAN- LEVEL 49 MECHANICAL		●					
24	M-150.00	HVAC FLOOR PLAN- LEVEL 50 MECH./WINDBREAK	●	●					
25	M-151.00	HVAC FLOOR PLAN- LEVEL 51 (TYP. 51-55)		●					
26	M-156.00	HVAC FLOOR PLAN- LEVEL 56 (TYP. 56-60)		●					
27	M-161.00	HVAC FLOOR PLAN- LEVEL 61 (TYP. 61-64)	●	●					
28	M-164.00	HVAC 64TH FLOOR PLAN	●						
29	M-165.00	HVAC FLOOR PLAN- LEVEL 65 MECH./WINDBREAK		●					
30	M-166.00	HVAC FLOOR PLAN- LEVEL 66 (TYP. 66-69)		●					
31	M-170.00	HVAC FLOOR PLAN- LEVEL 70 (TYP. 70-71)		●					
32	M-171.00	HVAC 71ST FLOOR PLAN	●						
33	M-172.00	HVAC FLOOR PLAN- LEVEL 72 MECHANICAL	●	●					
34	M-173.00	HVAC FLOOR PLAN- LEVEL 72 + 16'	●	●					
35	M-174.00	HVAC FLOOR PLAN- LEVEL 72 + 32'	●	●					
36	M-175.00	HVAC FLOOR PLAN- ROOF	●	●					
37	M-176.00	HVAC FLOOR PLAN- ROOF + 48'		●					
38	M-400.00	HVAC HOT WATER FLOW DIAGRAM NO. 1	●	●					
39	M-401.00	HVAC HOT WATER FLOW DIAGRAM NO. 2	●	●					
40	M-402.00	HVAC CONDENSER WATER FLOW DIAGRAM NO. 1	●	●					
41	M-403.00	HVAC CONDENSER WATER FLOW DIAGRAM NO. 2	●	●					
42	M-404.00	HVAC AIR FLOW DIAGRAM NO. 1	●	●					
43	M-405.00	HVAC AIR FLOW DIAGRAM NO. 2	●	●					
44	M-406.00	HVAC FUEL OIL AIR FLOW DIAGRAM	●	●					
45	M-500.00	HVAC SCHEDULE NO. 1	●	●					
46	M-501.00	HVAC SCHEDULE NO. 2	●	●					
47	**M-600.00**	**HVAC DETAIL SHEET NO. 1**		●					
48	**M-601.00**	**HVAC DETAIL SHEET NO. 2**		●					
49	**M-602.00**	**HVAC DETAIL SHEET NO. 3**		●					
50	**M-603.00**	**HVAC DETAIL SHEET NO. 4**		●					
51									
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NYC BLDG. CODE NOTES

GENERAL N.Y.C. BUILDING CODE NOTES

(THESE DOCUMENTS TO BE IN COMPLIANCE WITH THE CITY OF NEW YORK BUILDING CODE AND THE CITY OF NEW YORK MECHANICAL CODE, EFFECTIVE DECEMBER 31, 2014)

1. HEATING VENTILATING AND AIR CONDITIONING MATERIALS, EQUIPMENT AND SYSTEMS SUBJECT TO SPECIAL INSPECTION:

SPECIAL INSPECTION	REQUIRED
A. MECHANICAL SYSTEMS PER BC1704.16; AS REGULATED BY NYC MECHANICAL CODE, CHAPTERS 10, 11 & 12, SECTIONS MC 107, MC 507 AND AS PERFORMED IN ACCORDANCE WITH SECTIONS MC 507.16, MC 1011, MC 1108 AND MC 1208 OF THE NYC MECHANICAL CODE.	☑
B. SMOKE CONTROL SYSTEMS PER BC 1704.15 & BC 909:	☐
• COVERED MALL.	☐
• ATRIUM.	☐
• STAGE & PLATFORM.	☐
• STAIR PRESSURIZATION.	☐
• UNDERGROUND BUILDING.	☐
• GROUP I-3 OCCUPANCIES.	☐
C. FUEL-OIL STORAGE AND FUEL OIL PIPING SYSTEMS PER BC 1704.17 AS REGULATED BY MC 1308 OF THE NYC MECHANICAL CODE.	☑
D. HIGH PRESSURE STEAM PIPING (WELDING) PER BC 1704.18 AS REGULATED BY MC 1210 OF THE NYC MECHANICAL CODE.	☐
E. HEATING SYSTEMS PER BC 1704.25 AND TESTED IN ACCORDANCE WITH SECTION MC 1011 OF THE NYC MECHANICAL CODE.	☑
F. CHIMNEYS PER BC 1704.26 AND PERFORMED IN ACCORDANCE WITH MC 810 OF THE NYC MECHANICAL CODE.	☑
G. HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS SUPPORTING THE OPERATION OF EMERGENCY POWER SYSTEMS PER BC 1704.31 & BC 2702.	☑
H. FIRE-RESISTANT PENETRATIONS AND JOINTS PER BC 1704.27	☐
I. POST-INSTALLED ANCHORS (BB# 2014-018, 2014-019) PER BC 1704.32.	☐
J. SEISMIC ISOLATION SYSTEMS PER 1707.7 & 1707.8.	☒
K. ENERGY CODE COMPLIANCE INSPECTIONS PER BC 110.3.5	☒
L. FINAL INSPECTION PER 28-116.2.4.2 AND BC 110.5 AND DIRECTIVE 14 OF 1975 AND 1 RCNY §101-10. NOTE: SPECIAL INSPECTION AGENCY SHALL PROVIDE DOCUMENTATION INDICATING THE INSPECTIONS THEY ARE QUALIFIED AND APPROVED TO PERFORM. INSPECTOR REGISTRATION NUMBERS SHALL BE PROVIDED ON THE TR-1 & TR-8 FILING FORMS.	☒

2. UPON COMPLETION OF VENTILATION SYSTEM, A TEST WILL BE CONDUCTED UNDER THE PRESENCE AND DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT QUALIFIED TO CONDUCT SUCH TESTS. THE TESTS SHALL SHOW COMPLIANCE WITH CODE REQUIREMENTS FOR VENTILATION AND PROPER FUNCTION OF ALL OPERATING DEVICES BEFORE THE SYSTEM IS APPROVED.

3. THE LICENSED PROFESSIONAL ENGINEER OR ARCHITECT WHO CONDUCTS THE TEST SHALL FILE THE CERTIFICATE AS TO WHETHER THE SYSTEM COMPLIES WITH APPLICABLE LAWS. THE TEST AND THE REPORT SHALL BE MADE IN A MANNER SATISFACTORY TO THE SUPERINTENDENT.

4. A STATEMENT SHALL BE FILED BY THE OWNER THAT THE SYSTEM OF VENTILATION WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING NORMAL OCCUPANCY OF THE BUILDING AS REQUIRED BY THE APPLICABLE SECTION OF THE CODE.

5. NEW YORK CITY MECHANICAL CODE CHAPTER 4 SECTION 401 SHALL GOVERN THE VENTILATION OF THE SPACES WITHIN THE BUILDING INTENDED TO BE OCCUPIED.

6. MECHANICAL VENTILATION BY A METHOD OF SUPPLY AIR AND RETURN OR EXHAUST AIR SHALL BE PROVIDED AS PER NEW YORK CITY MECHANICAL CODE CHAPTER 4, SECTION 403. THE AMOUNT OF SUPPLY AIR SHALL BE APPROXIMATELY EQUAL TO THE AMOUNT OF RETURN AND EXHAUST AIR. THE SYSTEM SHALL NOT BE PROHIBITED FROM PRODUCING NEGATIVE OR POSITIVE PRESSURE. THE SYSTEM TO CONVEY VENTILATION AIR SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NEW YORK CITY MECHANICAL CODE CHAPTER 6.

7. MECHANICAL VENTILATION SYSTEMS SHALL BE PROVIDED WITH MANUAL OR AUTOMATIC CONTROLS AS PER NEW YORK CITY MECHANICAL CODE CHAPTER 4 SECTION 405.

8. THE DESIGN, CONSTRUCTION, AND INSTALLATION OF MECHANICAL EXHAUST SYSTEMS, INCLUDING DUST, STOCK AND CONVEYOR REFUGE SYSTEMS, EXHAUST SYSTEMS SERVING COMMERCIAL COOKING APPLIANCES, AND ENERGY RECOVERY VENTILATION SYSTEMS SHALL BE AS PER NEW YORK CITY MECHANICAL CODE CHAPTER 5 SECTION 501.

9. MECHANICAL AND PASSIVE SMOKE CONTROL SYSTEMS THAT ARE REQUIRED BY THE NEW YORK CITY MECHANICAL CODE SHALL BE AS PER NEW YORK CITY MECHANICAL CODE SECTION 513. GENERAL DESIGN REQUIREMENTS SHALL BE AS PER NEW YORK MECHANICAL CODE SECTION 513.2. SPECIAL INSPECTION AND TEST REQUIREMENTS SHALL BE AS PER NEW YORK MECHANICAL CODE SECTION 513.3.

10. DUCT SYSTEMS USED FOR THE MOVEMENT OF AIR IN AIR CONDITIONING, HEATING, VENTILATING AND EXHAUST SYSTEMS SHALL CONFORM TO PROVISIONS OF NEW YORK CITY MECHANICAL CODE CHAPTER 6, SECTION 601.

11. THE INSTALLATION AND CONSTRUCTION OF DUCTWORK SHALL BE AS PER NEW YORK CITY MECHANICAL CODE CHAPTER 6, SECTION 603.

12. PROTECTION OF DUCT PENETRATIONS AND AIR TRANSFER OPENINGS IN ASSEMBLIES REQUIRED TO BE PROTECTED SHALL BE AS PER NEW YORK CITY MECHANICAL CODE CHAPTER 6, SECTION 607. FIRE DAMPERS, SMOKE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS AND CEILING RADIATION DAMPERS SHALL BE PROVIDED AT THE LOCATIONS PRESCRIBED IN SECTIONS 607.5.1 THROUGH 607.5.5. WHERE AN ASSEMBLY IS REQUIRED TO HAVE BOTH FIRE DAMPERS AND SMOKE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS, OR A FIRE DAMPER AND A SMOKE DAMPER SHALL BE REQUIRED.

13. DUCT AND AIR TRANSFER OPENINGS THAT PENETRATE FIRE RATED PARTITIONS SHALL COMPLY WITH ALL REQUIREMENTS LISTED UNDER THE BUILDING CODE SECTION 716 AS APPLICABLE TO SYSTEM DESIGN.

BUILDING DEPARTMENT NOTES

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
520 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10001
tel 646.605.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.359.9000

JBB JAROS BAUM & BOLLES

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.687.3888

Mueser Rutledge Consulting Engineers

AKRF

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9559

vda

Thornton Tomasetti

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 DAILE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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JHPA JAN HIRD POKORNY ASSOCIATES

INTERIORS
GACHOT
424 BROADWAY SUITE 509
NEW YORK, NY 10013
tel 646.665.0846

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768-6540

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237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 908
NEW YORK, NY 10018
tel 212.315.0480

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SIMPSON GUMPERTZ & HEGER

BMU ENGINEER
ENTEK ENGINEERING
168 AVES STREET
MORGNGACK, NJ 07901
tel 201.820.2800

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NEW YORK, NY 10018
tel 212.211.7000

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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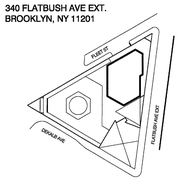
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.894.2025

LANDSCAPE TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4350

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET
04/21/16 PO & BOE DOB FILING SET

DATE ISSUE | NO. DATE REVISION

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DRAWING TITLE

HVAC COVER SHEET

SEAL & SIGNATURE

STATE OF NEW YORK — JAMES LIVINGSTON — 087114 — LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338
DRAWING NUMBER	M-001.00

14 JULY 2016

DEPT OF BLDGS 320914308 Job Number
E3410528965 Scan Code

KEY TO SYMBOLS

ABBREVIATIONS

AC	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AL	ACOUSTICAL LINING
ALD	AUTOMATIC LOUVER DAMPER
BATC	BUILDING AUTOMATION AND TEMPERATURE CONTROL
BDD	BACKDRAFT DAMPER
BI	BLACK IRON
BRD	BAROMETRIC RELIEF DAMPER
CAV	CONSTANT AIR VOLUME
CC	COOLING COIL
CCCD	COOLING COIL CONDENSATE DRAIN
CD	CEILING DIFFUSER
COD	CLEAN OUT DOOR
CP	CONDENSATE PUMP
CR(G)	CEILING REGISTER OR GRILLE
CV	CONSTANT VOLUME SUPPLY BOX
CVR	CONSTANT VOLUME SUPPLY BOX W/ REHEAT COIL
DB	DRY BULB TEMPERATURE
DSD	DUCT SMOKE DETECTOR
E	EXHAUST / EXHAUST REGULATOR BOX
EAT	ENTERING AIR TEMPERATURE
EMR	ELEVATOR MACHINE ROOM
FAI	FRESH AIR INTAKE
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FL	FIRE LIFT
FLCR	FUSIBLE LINK REGISTER
FSD	COMBINATION FIRE SMOKER DAMPER
GSX	GARAGE SMOKE EXHAUST
GX	GARAGE EXHAUST
HC	HEATING COIL
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER (CONVERTER)
JD(TD)	JUMP DUCT (TRANSFER DUCT)
KX	KITCHEN EXHAUST
LAT	LEAVING AIR TEMPERATURE
LPS	LOW PRESSURE STEAM
LWT	LEAVING WATER TEMPERATURE
M	MOTOR
MCC	MOTOR CONTROL CENTER
MER	MECHANICAL EQUIPMENT ROOM
MLWS	METAL LOUVER WITH WIRE MESH SCREEN
MO	MASONRY OR WALL OPENING (1 SQ. FT U.O.N.)
MPS	MEDIUM PRESSURE STEAM
N	NORTH
NC	NORMALLY CLOSED
NE	NORTHEAST
NIC	NOT IN CONTRACT
NK	NECK SIZE
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NW	NORTHWEST
OAI	OUTSIDE AIR INTAKE
OBD	OPPOSED BLADE DAMPER
P	PUMP
PC	PUMPED CONDENSATE
PCHWR	PRIMARY CHILLED WATER RETURN
PCHWS	PRIMARY CHILLED WATER SUPPLY
PCWR	PRIMARY CONDENSER WATER RETURN
PCWS	PRIMARY CONDENSER WATER SUPPLY
PHC	PRE HEAT COIL
PHWR	PRIMARY HOT WATER RETURN
PHWS	PRIMARY HOT WATER SUPPLY
RA	RETURN AIR
RFHWS	RADIANT FLOOR HOT WATER SUPPLY
RFHWR	RADIANT FLOOR HOT WATER RETURN
RFM	RADIANT FLOOR MANIFOLD
RG	RETURN AIR GRILLE
R/S	RETURN/SPILL
S	SUPPLY
SA	SUPPLY AIR
SO	SOUTH
SCHWR	SECONDARY CHILLED WATER RETURN
SCHWS	SECONDARY CHILLED WATER SUPPLY
SD	SMOKE DAMPER
SE	SOUTHEAST
SF	SQUARE FEET
SG	SUPPLY AIR GRILLE
ST	SOUND TRAP
SW	SOUTHWEST
SWSI	SINGLE WIDTH SINGLE INLET
S/S	STAINLESS STEEL
TD	TRANSFER DUCT
TF	TRANSFER FAN
TR(G)	TOP REGISTER OR GRILLE
TX	TOILET EXHAUST
UAS	UNDER ANOTHER SECTION OF THE SPECIFICATION
UC	UNDERCUT DOOR (1 INCH)
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
USL	UPPER SERVICE LEVEL
V	VENTILATION
VAV	VARIABLE AIR VOLUME REGULATOR
VD	VOLUME DAMPER
VI	VIBRATION ISOLATOR
W	WEST
WB	WET BULB TEMPERATURE
WMS	WIRE MESH SCREEN
WP	WEATHER PROOF

SYMBOLS

REDUCER (CONCENTRIC/ECCENTRIC)
DIRECTION OF FLOW
EXPANSION LINE
UNION
PUMPED CONDENSATE
DRAIN LINE
VENT
REFRIGERANT RELIEF
HIGH PRESSURE STEAM
MEDIUM PRESSURE STEAM
LOW PRESSURE STEAM
HIGH PRESSURE RETURN
MEDIUM PRESSURE RETURN
LOW PRESSURE RETURN
STEAM TRAPS
SHUT OFF VALVE (NORMALLY OPEN)
SHUT OFF VALVE (NORMALLY CLOSED)
BUTTERFLY VALVE
BALANCING VALVE
AUTOMATIC CONTROL VALVE
SOLENOID VALVE
DUCT SMOKE DETECTOR
PRESSURE GAUGE
SAFETY RELIEF VALVE
MOTORIZED BUTTERFLY VALVE
STRAINER WITH BLOW OFF VALVE AND HOSE ADAPTER
CHECK VALVE
PIPE ANCHOR
PIPE GUIDE
PIPE TURNING DOWN
PIPE TURNING UP
VACUUM BREAKER
PRESSURE TEMPERATURE PORT
ELECTRICALLY HEAT TRACED PIPE
SUPPLY AIR DUCT UP
EXHAUST OR RETURN AIR DUCT UP
SUPPLY AIR DUCT DOWN
EXHAUST OR RETURN AIR DUCT DOWN
DUCT WITH ACOUSTIC LINING (1" THICK U.O.N.)
316L STAINLESS STEEL DUCTWORK (WELDED, PAN TYPE CONSTRUCTION)
FIRE RATED DUCT CONSTRUCTION (2 HR U.O.N.)
OFFSET IN DUCT/PIPE ELEVATION
SHEET METAL PLENUM WALL
SOUND TRAP
CEILING DIFFUSER (2-WAY BLOW)
CEILING DIFFUSER (3-WAY BLOW)
CEILING DIFFUSER (4-WAY BLOW)
CEILING GRILLE (CEILING REGISTER WHERE NOTED AS CR)
THERMOSTAT (STANDARD/FLUSH PLATE)
FAN START/STOP SWITCH W/ PILOT LIGHT
AC UNIT START/STOP W/THERMOSTAT
DOOR LOUVER (SQ. FEET)
UNDERCUT DOOR (1")
PRESSURE TRANSMITTER
TEMPERATURE SENSOR
DIFFERENTIAL PRESSURE TRANSMITTER
FLEXIBLE DUCT
FAN
AUTOMATIC LOUVER DAMPER
COMBINATION FIRE/SMOKE DAMPER
COMBINATION FIRE DAMPER/ AUTOMATIC LOUVER DAMPER
VOLUME DAMPER
ACCESS DOOR
DISCONNECT SWITCH
HEATING COIL
COOLING COIL
PUMP
CONDENSATE PUMP
THERMOMETER
FLOW TRANSMITTER
CONNECT NEW TO EXISTING
CARBON DIOXIDE SENSOR
BEAM PENETRATION

ABBREVIATIONS

AC	AIR CONDITIONING UNIT	JD(TD)	JUMP DUCT (TRANSFER DUCT)
ACR	AIR CONDITIONING RETURN		
ACS	AIR CONDITIONING SYSTEM	KV	KITCHEN VENTILATION
AD	ACCESS DOOR	KW	KILOWATTS
AFF	ABOVE FINISHED FLOOR	KX	KITCHEN EXHAUST
AFMS	AIR FLOW MONITORING STATION	KXMU	KITCHEN EXHAUST MAKE-UP AIR
AHR	ANIMAL HOLDING ROOM		
AHU	AIR HANDLING UNIT	LAT	LEAVING AIR TEMPERATURE
AL	ACOUSTICAL LINING	LD	LINEAR DIFFUSER
ALD	AUTOMATIC LOUVER DAMPER	LPR	LOW PRESSURE STEAM CONDENSATE RETURN
		LPS	LOW PRESSURE STEAM
B	BOILER	LS	LIFE SAFETY
BATC	BUILDING AUTOMATION & TEMP. CONTROL SYSTEM	LWT	LEAVING WATER TEMPERATURE
BB	BASE BUILDING	LZHWR	LOW ZONE HOT WATER RETURN
BDD	BACKDRAFT DAMPER	LZHWS	LOW ZONE HOT WATER SUPPLY
BHP	BRAKE HORSEPOWER	LX	LABORATORY EXHAUST
BI	BLACK IRON		
BO	BEAM OPENING	M	MOTOR
BRD	BAROMETRIC RELIEF DAMPER (PRESSURE REGULATING DAMPER)	MCC	MOTOR CONTROL CENTER
		MER	MECHANICAL EQUIPMENT ROOM
BR(G)	BOTTOM REGISTER OR GRILLE	MLWS	METAL LOUVER WITH WIRE MESH SCREEN
BTUH	BRITISH THERMAL UNITS PER HOUR (BTU/HR)	MM	MILLIMETERS
BV	BUTTERFLY VALVE	MO	MASONRY OR WALL OPENING
		MPC	MEDIUM PRESSURE STEAM CONDENSATE
CAV	CONSTANT AIR VOLUME	MPS	MEDIUM PRESSURE STEAM
CAVR	CONSTANT AIR VOLUME REGULATOR		
CC	COOLING COIL	NC	NORMALLY CLOSED
CD	CEILING DIFFUSER	NFA	NET FREE AREA
CFM	CUBIC FEET OF AIR PER MINUTE	NIC	NOT IN CONTRACT
CHWR	CHILLED WATER RETURN	NK	NECK SIZE
CHWS	CHILLED WATER SUPPLY	NO	NORMALLY OPEN
CO	CLEAN-OUT	NTS	NOT TO SCALE
COD	CLEAN-OUT DOOR		
CP	CONDENSATE PUMP	OAI	OUTSIDE AIR INTAKE
CR(G)	CEILING REGISTER OR GRILLE	OBD	OPPOSED BLADE DAMPER
CTF	COOLING TOWER FILTER		
CTFR	COOLING TOWER FILTER RETURN	P	PUMP
CTFS	COOLING TOWER FILTER SUPPLY	PC	PUMPED CONDENSATE
CV	CONSTANT VOLUME SUPPLY BOX	PC(C)	PUMPED CONDENSATE (COLD)
CVR	CONSTANT VOLUME SUPPLY BOX W/REHEAT COIL	PC(H)	PUMPED CONDENSATE (HOT)
CW	CITY WATER	PCHWR	PRIMARY CHILLED WATER RETURN
CWR	CONDENSER WATER RETURN	PCHWS	PRIMARY CHILLED WATER SUPPLY
CWS	CONDENSER WATER SUPPLY	PCWR	PRIMARY CONDENSER WATER RETURN
		PCWS	PRIMARY CONDENSER WATER SUPPLY
D	DRAIN	PD	PRESSURE DROP
DB	DRY BULB TEMPERATURE	PFHX	PLATE AND FRAME HEAT EXCHANGER
DCHWR	DATA CENTER CHILLED WATER RETURN	PHC	PRE HEAT COIL
DCHWS	DATA CENTER CHILLED WATER SUPPLY	PHWR	PRIMARY HOT WATER RETURN
DHWPR	DOMESTIC HOT WATER PREHEAT	PHWS	PRIMARY HOT WATER SUPPLY
DSD	DUCT SMOKE DETECTOR	PRV	PRESSURE REDUCING VALVE
DWDI	DOUBLE WIDTH DOUBLE INLET	PSIG	POUNDS PER SQUARE INCH
E	EXPANSION MAKE-UP	RA	RETURN AIR
EA	ENTERING AIR	RHC	REHEAT COIL
EAT	ENTERING AIR TEMPERATURE	RPM	REVOLUTIONS PER MINUTE
EER	ENERGY EFFICIENCY RATING	RR	REFRIGERANT RELIEF
EHC	ELECTRIC HEATING COIL	R/S	RETURN/SPILL
EF	EXHAUST FAN	RSX	RETAIL SMOKE EXHAUST
EJ	EXPANSION JOINT	RTX	RETAIL TOILET EXHAUST
EMR	ELEVATOR MACHINE ROOM		
EP	ELECTRIC-PNEUMATIC	S	SUPPLY
ERR	EVACUATION, RESCUE ANR RECOVERY	SA	SUPPLY AIR
ESP	EXTERNAL STATIC PRESSURE	SCHWR	SECONDARY CHILLED WATER RETURN
ET	EXPANSION TANK	SCHWS	SECONDARY CHILLED WATER SUPPLY
EUH	ELECTRIC UNIT HEATER	SCWR	SECONDARY CONDENSER WATER RETURN
EWT	ENTERING WATER TEMPERATURE	SCWS	SECONDARY CONDENSER WATER SUPPLY
EXH	EXHAUST	SD	SMOKE DAMPER
		SF	SQUARE FEET
FAI	FRESH AIR INTAKE	SHWR	SECONDARY HOT WATER RETURN
FC	FLEXIBLE CONNECTION	SHWS	SECONDARY HOT WATER SUPPLY
FCU	FAN COIL UNIT	SP	STATIC PRESSURE
FD	FIRE DAMPER	S/S	STAINLESS STEEL
FHX	FUME HOOD EXHAUST	ST	SOUND TRAP
FL	FIRE LIFT	SWSI	SINGLE WIDTH SINGLE INLET
FLCR	FUSIBLE LINK CEILING REGISTER	SX	SMOKE EXHAUST
FLV	FIRE LIFT VESTIBULE		
FME	FLOW MEASURING ELEMENT (WATER BALANCING)	TD	TRANSFER DUCT
FMS	FLOW MEASURING STATION	TF	TRANSFER FAN
FO	FUEL OIL	TR(G)	TOP REGISTER OR GRILLE
FOF	FUEL OIL FILL	TSW	TENANT SPECIAL WORK
FOR	FUEL OIL RETURN	TX	TOILET EXHAUST
FOS	FUEL OIL SUPPLY	TYP	TYPICAL
FOV	FUEL OIL VENT		
FPB	FAN POWERED BOX	UAS	UNDER ANOTHER SECTION OF THE SPECIFICATION
FPM	FEET PER MINUTE	UC	UNDERCUT DOOR (1")
FPTU	FAN POWERED THERMINAL UNIT	UH	UNIT HEATER
FR	FIRE RATED DUCT	UON	UNLESS OTHERWISE NOTED
FSD	COMBINATION FIRE / SMOKE DAMPER	USL	UPPER SERVICE LEVEL
FTR	FIN-TUBE RADIATION ELEMENT	USM	ULTRASONIC METER
GA	GROSS AREA	V	VENTILATION
GBDD	GRAVITY BACKDRAFT DAMPER	VAV	VARIABLE AIR VOLUME REGULATOR
GCWR	GLYCOL CONDENSER WATER RETURN	VD	VOLUME DAMPER
GCWS	GLYCOL CONDENSER WATER SUPPLY	VFD	VARIABLE FREQUENCY DRIVE
GHWR	GLYCOL HOT WATER RETURN	VI	VIBRATION ISOLATOR
GHWS	GLYCOL HOT WATER SUPPLY	VIV	VARIABLE INLET VANES
GPM	GALLONS PER MINUTE FLUID FLOW	VP	VESTIBULE PRESSURIZATION
GS	GARAGE SUPPLY	VR	VARIABLE VOLUME REGULATOR WITH REHEAT COIL
GSX	GARAGE SMOKE EXHAUST		
GX	GARAGE EXHAUST	WB	WET BULB TEMPERATURE
		WMS	WIRE MESH SCREEN
H	HUMIDIFIER	WP	WEATHER PROOF
HC	HEATING COIL	W/SQ.FT	WATTS PER SQUARE FOOT
HGHWS	HIGH GRADE HOT WATER SUPPLY		
HPC	HIGH PRESSURE STEAM CONDENSATE		
HPS	HIGH PRESSURE STEAM PIPING		
HRC	HEAT RECOVERY COIL		
HRHWR	HEAT RECOVERY HOT WATER RETURN		
HV	HEATING AND VENTILATING UNIT		
HWR	HOT WATER RETURN		
HWRR	HOT WATER REVERCE RETURN		
HWS	HOT WATER SUPPLY		
HX	HEAT EXCHANGER		

GENERAL NOTES

1. ALL LOW PRESSURE BRANCH DUCTWORK (SUPPLY AND RETURN) SHALL BE PROVIDED WITH VOLUME DAMPERS RESPECTIVELY.
2. PROVIDE COMBINATION FIRE/SMOKE DAMPER AT ALL 2 HOURS OR MORE FIRE RATED WALL PENETRATIONS.
3. ALL DUCTWORK AND PIPING ENCLOSURES FOR HORIZONTAL OFFSETS SHALL BE OF 2HR RATED MINIMUM SHAFTWALL CONSTRUCTION (TOP, BOTTOM AND SIDES) SUPPORTED INDEPENDENTLY OF THE DUCTWORK OR PIPING AND SHALL BE THE WORK OF ANOTHER CONTRACTOR.
4. EACH FAN POWERED BOX AND VARIABLE AIR VOLUME BOX SHALL BE PROVIDED WITH A THERMOSTAT. THERMOSTATS SHALL BE LOCATED AS SHOWN OR AS DIRECTED. FINAL LOCATIONS TO BE VERIFIED WITH THE ARCHITECT. FINISH AND COLOR TO BE SELECTED BY THE ARCHITECT.
5. FAN POWERED BOXES AND VARIABLE AIR VOLUME BOXES SHOWN ON DRAWINGS ARE SCHEMATIC. SEE DETAIL OF INSTALLATION ON DRAWING FOR ACTUAL TYPICAL ARRANGEMENT REQUIRED.
6. BORDER TYPES, COLOR, FINISHES, AND METHOD OF ATTACHMENT FOR ALL DIFFUSERS, GRILLES AND REGISTERS SHALL BE COORDINATED WITH THE ARCHITECTURAL CEILING DETAILS AND SPECIFICATIONS.
7. ALL SLOT AND LINEAR DIFFUSERS ARE TO BE COORDINATED WITH ARCHITECTURAL PLANS FOR EXACT LENGTHS AND LOCATIONS. EACH BRANCH TAP SERVING THE SLOT AND LINEAR DIFFUSERS SHALL BE PROVIDED WITH A VOLUME DAMPER WHICH SHALL BE CABLE OPERATED THROUGH THE ROOM SIDE FACE OF EACH DIFFUSER. SLOT AND LINEAR DIFFUSERS SHALL BE PROVIDED WITH PATTERN CONTROL DEVICES AND EQUALIZING GRIDS. SLOT RETURN SECTIONS SHALL NOT BE FURNISHED WITH PATTERN CONTROL OR EQUALIZING GRIDS. REFER TO SPECIFICATIONS FOR MODEL NUMBERS. ALL FINISH COLORS AND TYPES SHALL BE AS PER ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
8. WHERE PIPING CONNECTIONS FOR EQUIPMENT DIFFER FROM THE LINE SIZE PIPING, IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO FURNISH AND INSTALL THE NECESSARY REDUCER/EXPANDER FITTINGS TO ENABLE CONNECTION BETWEEN THE PIPING SYSTEM AND THE EQUIPMENT.
9. ALL PRESSURE AND TEMPERATURE GAUGES ARE SCHEMATICALLY SHOWN ON THE PLANS. REFER TO SPECIFICATIONS FOR EXACT TYPES AND LOCATIONS.
10. ALL STRUCTURE FOR BUILDING FRAMING SHOWN ON MECHANICAL DRAWINGS IS FOR CLARIFICATION AND COORDINATION PURPOSES ONLY. ALL STRUCTURE REQUIRED TO SUPPORT MECHANICAL EQUIPMENT, PIPING, ETC. (WHETHER SHOWN ON DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS) SHALL BE FURNISHED AND INSTALLED UNDER THIS CONTRACT.
11. UNLESS OTHERWISE NOTED ON PLANS, ALL RETURN AIR INTO THE HUNG CEILING PLENUM SHALL BE VIA THE LIGHT FIXTURES AND/OR ARCHITECTURAL SLOTS IN THE CEILING.
12. ALL METAL LOUVERS, AND ALL BLANK OFF PANELS (INSULATED OR NOT INSULATED, ACTIVE OR INACTIVE) FOR LOUVERS SHALL BE PROVIDED UNDER ANOTHER SECTION OF THE SPECIFICATIONS. WIRE MESH SCREENS FOR LOUVERS SHALL BE PROVIDED BY THE LOUVER MANUFACTURER. ALL OTHER WIRE MESH SCREENS SHALL BE PROVIDED UNDER THIS SECTION OF THE SPECIFICATIONS.
13. ALL CHILLED WATER AND HOT WATER VALVED OUTLETS SERVING RETAIL TENANTS SHALL BE PROVIDED WITH FLUSH LOOPS.
14. PROVIDE 10' OF ACOUSTIC LINING ON SUPPLY DUCTWORK DOWNSTREAM OF ALL VAV BOXES AND FAN POWERED BOXES.
15. WHERE APPLICABLE PROVIDE PIPE INSULATION AROUND BONDING CLAMP TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10001
tel 646.605.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 17TH FLOOR
NEW YORK, NY 10279
tel 212.888.9000

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.620.8300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
229 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.3888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
150 DAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.605.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.665.0646

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768-6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.319.6490

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
198 AVER STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10016
tel 212.689.5380

BUROHAPPOLD ENGINEERING

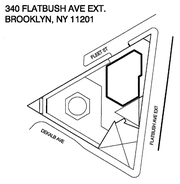
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.0025

LOSTETTER TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
320 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4200

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET
04/01/16 PC & BOE DOB FILING SET

DATE ISSUE NO. DATE REVISION

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DRAWING TITLE

HVAC ABBREVIATIONS AND SYMBOLS

SEAL & SIGNATURE

STATE OF NEW YORK JAMES LEE 087114 LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914308

DRAWING NUMBER

M-002.00

14 JULY 2016

DEPT OF BUILDINGS 320014338 Job Number

ES 1671556613 Scan Code

SANITARY / STORM POE ROOM 380 SF

BUILDING MANAGER'S OFFICE 214 SF

UP STAIR Q

SANITARY STORM POE ROOM 380 SF

BUILDING MANAGER'S OFFICE 214 SF

UP STAIR Q

STORAGE 99 SF

CORRIDOR 36x18

LAUNDRY ROOM EXHAUST UP 56x12 (7500)

56x12

CLOSET 35 SF

5X RISER UP 48x48 (6000)

GX RISER UP 56x12 (7500)

TX RISER UP 26x12 (1400)

30x12 BUILDING WORKSHOP 384 SF

18x12

ELEVATOR HOISTWAY E

36x12 HOISTWAY VENT UP

ELEVATOR HOISTWAY D

ELEVATOR PIT C

ELEVATOR PIT B

CRAC-SC-3

TELECOM / MDF ROOM 1407 SF

CRAC-SC-2 LAUNDRY ROOM 509 SF

CRAC-SC-1

FIRE LOBBY

CLOSET 39 SF

STAFFMEN'S LOCKER ROOM 265 SF

STAFF WOMEN'S LOCKER ROOM 272 SF

STAFF BREAK ROOM 530 SF

ELEC CLOSET

ELEVATOR PIT A

TRASH ROOM

STORAGE 106 SF

10" CWS&R

10" HWS&R

TRASH ROOM EXH. 16x10 UP

16x10 (700)

24x12 (2100)

OA UP 16x36

RESIDENTIAL STORAGE 1254 SF

UP STAIR L

RESIDENTIAL AMENITY 4642 SF

RESIDENTIAL BIKE STORAGE 681 SF

RESIDENTIAL BIKE STORAGE 1872 SF

RESIDENTIAL STORAGE AC-G Redundant Area

10x20 UP W/FSD/AD

20x10 SA (1130)

24x12 RA (2610)

12x24 UP W/FSD/AD

STORAGE 2269 SF

32x20 (6,000)

FOP-SC-1

RESIDENTIAL BIKE STORAGE 681 SF

ELEVATOR HOISTWAY G

FUEL OIL TANK (1,000 GALLON)

FUEL OIL PUMP ROOM 303 SF

2" FOS 2'6" FOR

FUEL OIL TANK ROOM 297 SF

2" FILL 4" VENT

COMMERCIAL BIKE STORAGE 470 SF

72x30 SX RISER UP

STORAGE 103 SF

STAIR S

410

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SCALE: 1/8" = 1'-0"

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.625.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
259 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS, BAUM & BOLLES

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

MEP ENGINEER
JAROS, BAUM & BOLLES
85 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.607.9888

Mueser Rutledge Consulting Engineers

AKRF

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 8TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9328

vda

Thornton Tomasetti

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
150 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #10
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

JHPA JAN HIRD POKORNY ASSOCIATES

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0646

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768.6540

BOLD

Longman Lindsey

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.874.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

SIMPSON GUMPERTZ & HEGER

BMU ENGINEER
ENTEK ENGINEERING
186 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2822

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
600 SEVENTH AVENUE, 16TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

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BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10016
tel 212.889.5380

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.3525

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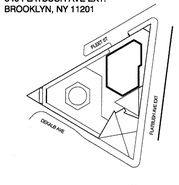
TRACE POOL DESIGN
222 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4200

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
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04/01/16	PC & BOE DOB FILING SET			

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DRAWING TITLE

HVAC FLOOR PLAN- SUBCELLAR

SEAL & SIGNATURE

STATE OF NEW YORK JAMES K. LAU 087114 LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

DRAWING NUMBER

M-099.00

14 JULY 2016

DEPT OF BUILDINGS 320014338 Job Number

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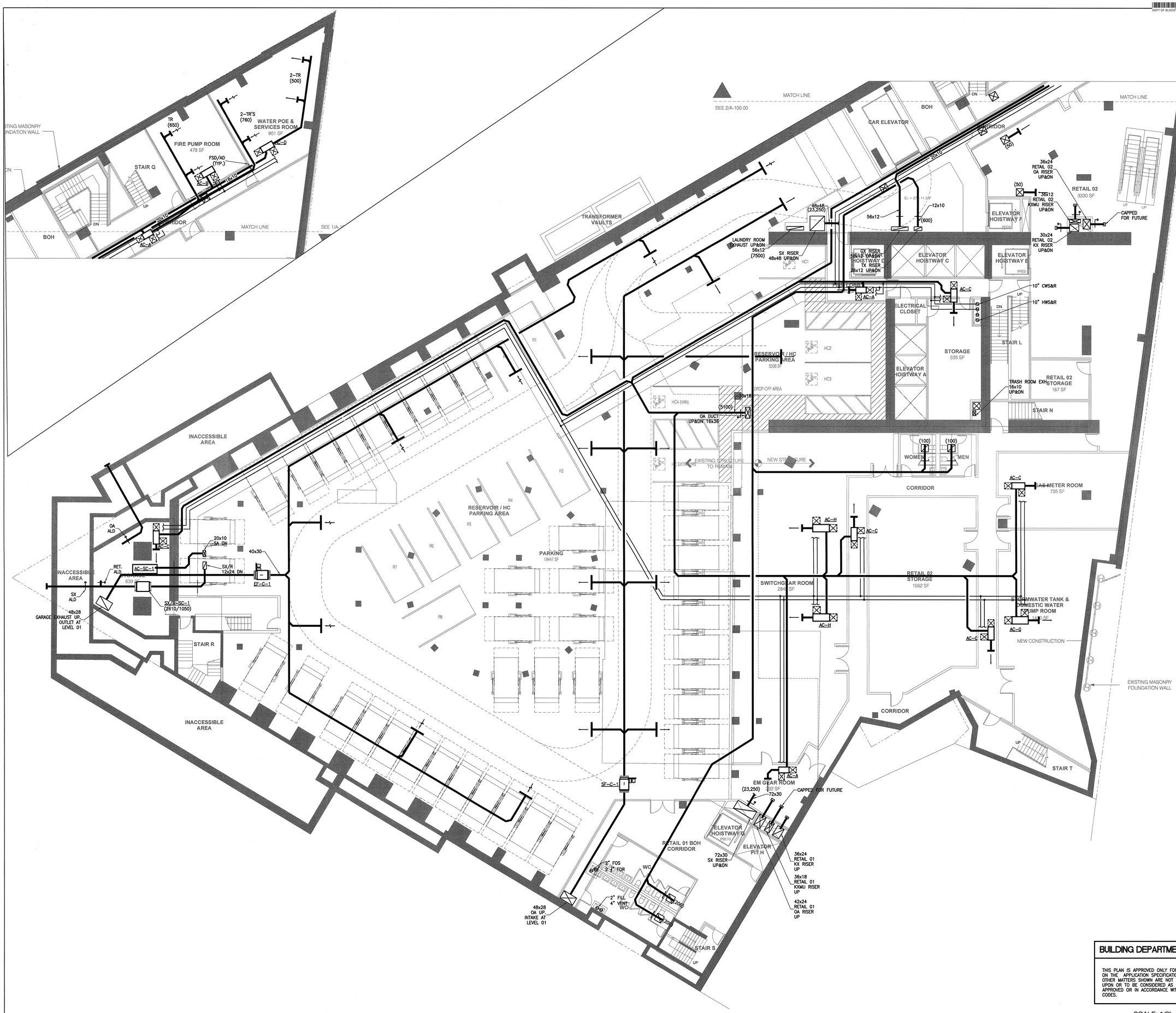

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SCALE: 1/8" = 1'-0"

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 6TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.359.9333

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.697.9686

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 4TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9626

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, # 9
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.666.0646

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
36 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212-759-9540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 606
NEW YORK, NY 10018
tel 212.515.5400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.0602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
950 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10019
tel 212.271.7000

VIDARIS

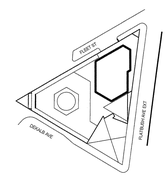
BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.655.5390

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.934.2035

Lehrer TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290



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04/01/16	FD & BOE DOB FILING SET			

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DRAWING TITLE

HVAC FLOOR PLAN- CELLAR

SEAL & SIGNATURE

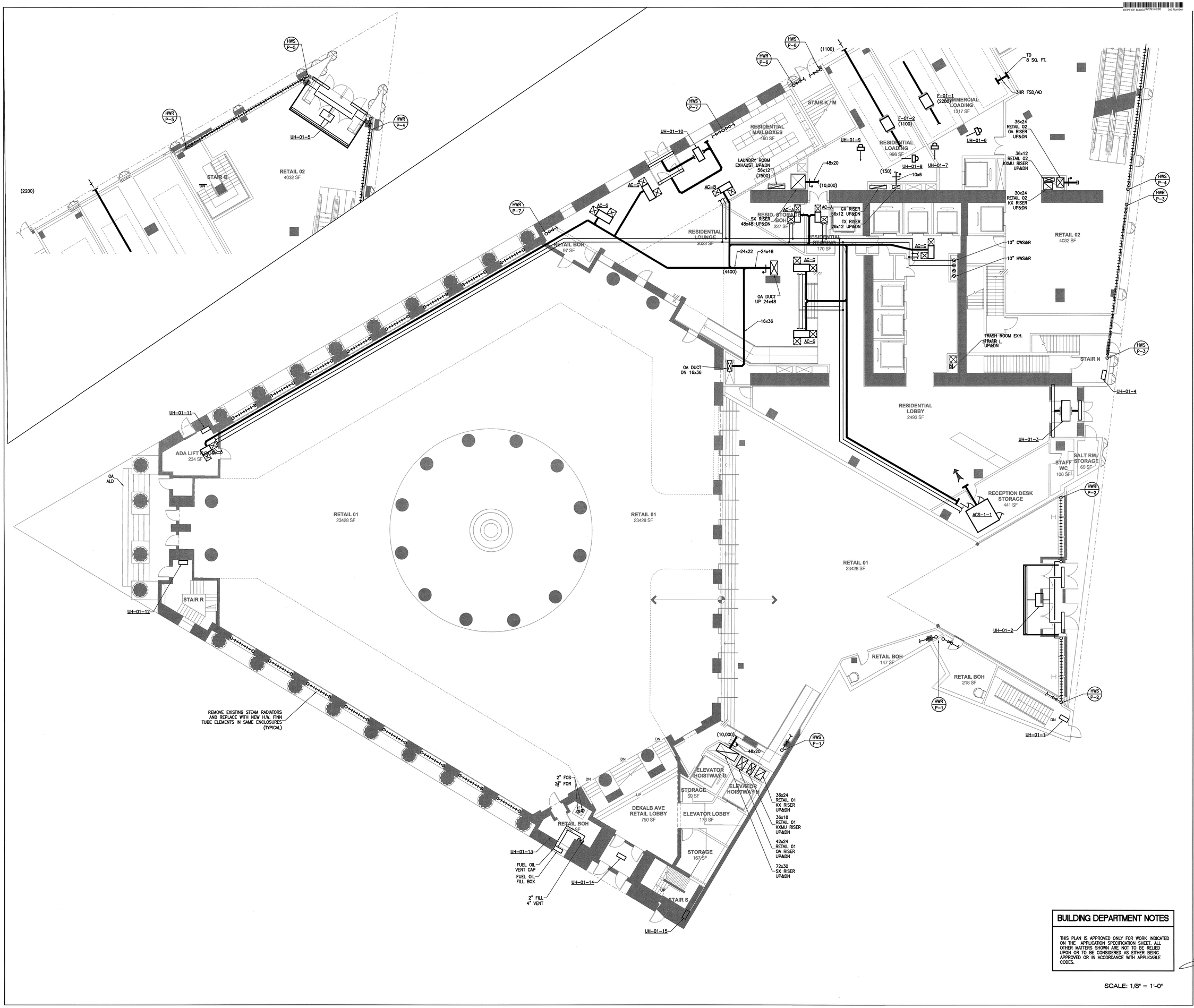
STATE OF NEW YORK — DAVID A. JOHN — 087114 — LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	IL
DOB NO.	320014338

DRAWING NUMBER

M-100.00

BSPT OF BLDGS 320914338 Job Number
B2702889504 Scan Code



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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.359.9333

JBB JAROS BAUM & BOLLES
WSP CANTOR SEINUK STRUCTURAL ENGINEERS

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 46TH STREET
NEW YORK, NY 10036
tel 212.687.9888

Muzher Mukdadge Consulting Engineers
AKRF

GEOTECHNICAL ENGINEER
MPCE
233 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10036
tel 917.338.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

vda
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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7900

GACHOT

JHPA JAN HIRD POKORNY ASSOCIATES

INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.668.0846

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
36 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6040

BOLD

Longman Lindsey

LIGHTING
BOLD
227 WEST 30TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 1508
NEW YORK, NY 10018
tel 212.510.6450

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SIMPSON GUMPERTZ & HEGER

BMU ENGINEER
ENTEK ENGINEERING
186 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2800

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
600 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BURO HAPPOLD ENGINEERING

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10016
tel 212.689.5369

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.241.2025

Lothrop Associates

POOL
TRACE POOL DESIGN
320 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4290

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340 FLATBUSH AVE EXT.
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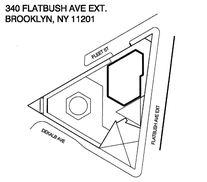

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HVAC FLOOR PLAN- LEVEL 01

SEAL & SIGNATURE

STATE OF NEW YORK JAMES A. LOTHROP 087118 REGISTERED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

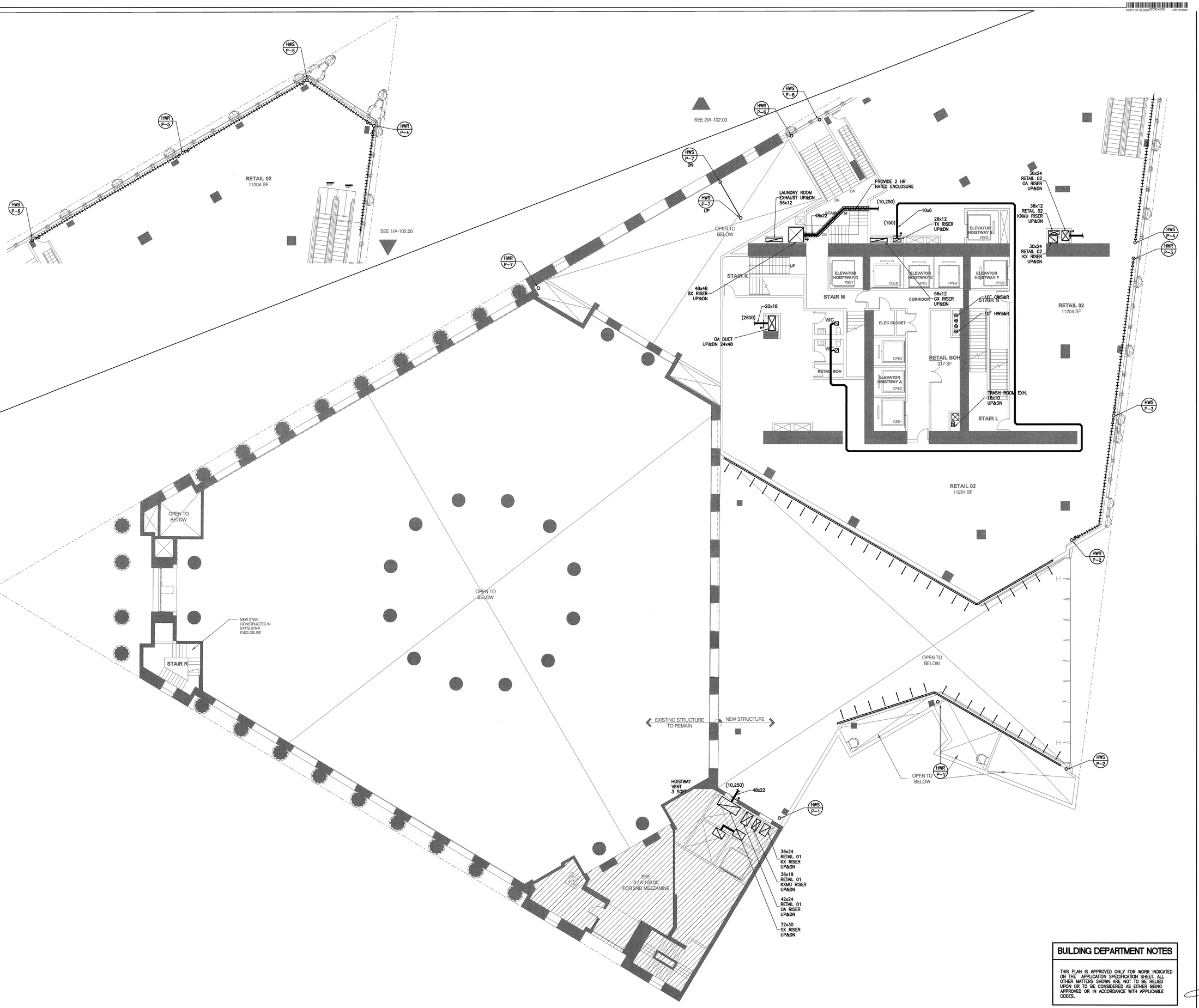
DRAWING NUMBER

M-101.00

14 JULY 2016

DEPT OF BLDGS 320914338 Job Number

B2700620070 Scan Code



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DEVELOPER
JDS DEVELOPMENT GROUP
109 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.605.0640

ARCHITECT
SHoP ARCHITECTS, P.C.
229 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.888.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.0500

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.807.9898

GEOTECHNICAL ENGINEER
MRGE
229 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 SINDLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.605.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #10
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.665.0646

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768-6540

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.0400

BMU ENGINEER
ENTEK ENGINEERING
168 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.211.7000

BUILDING ENERGY
VIDARIS
350 FIFTH AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10012
tel 212.689.5389

FIRE SAFETY ENGINEER
BURO HAPPOLD
120 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

POOL
TRACE POOL DESIGN
223 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4280

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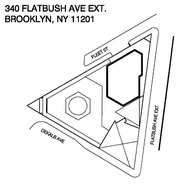
340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
04/01/16	PD & BOE DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

HVAC FLOOR PLAN- LEVEL 02

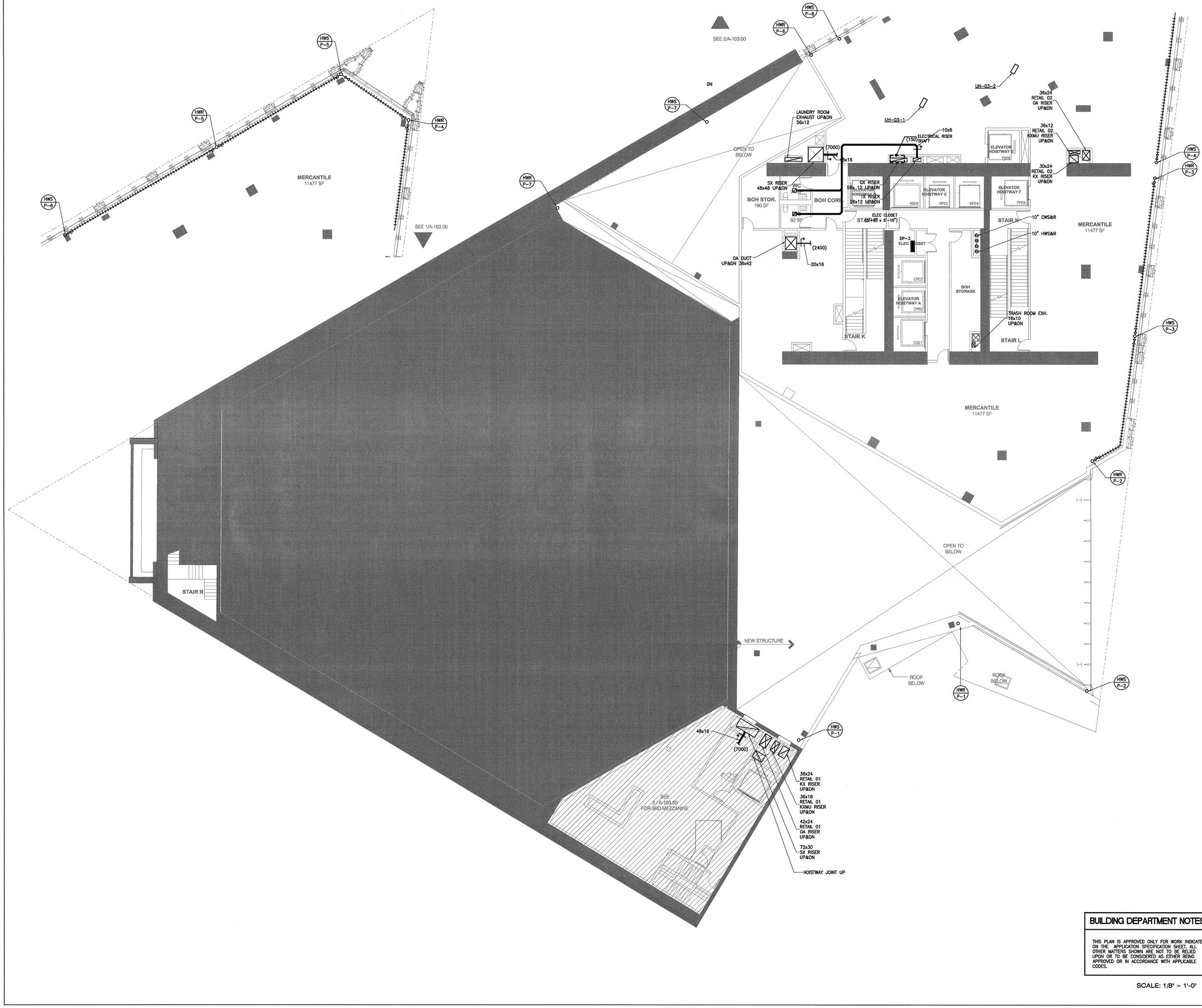
SEAL & SIGNATURE

STATE OF NEW YORK — JOSEPH LICATA — 087114 — LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338
DRAWING NUMBER	M-102.00

14-JULY-2016

DEPT OF BUILDINGS 320914338 Job Number
B3632356505 Scan Code



BUILDING DEPARTMENT NOTES

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SCALE: 1/8" = 1'-0"

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.605.5940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 32TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10036
tel 212.697.9999

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 8TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
150 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.605.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
164 BROADWAY SUITE 509
NEW YORK, NY 10013
tel 646.666.0946

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 15A
NEW YORK, NY 10018
tel 212.768.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6505

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 509
NEW YORK, NY 10018
tel 212.213.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
198 AMOS STREET
MADISONDACK, NJ 07901
tel 201.820.2922

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.211.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.588.0388

BURO HAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
320 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4090

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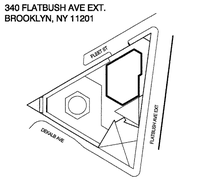
340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
04/01/16	PC & SOE DOB FILING SET			

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DRAWING TITLE

HVAC FLOOR PLAN- LEVEL 03

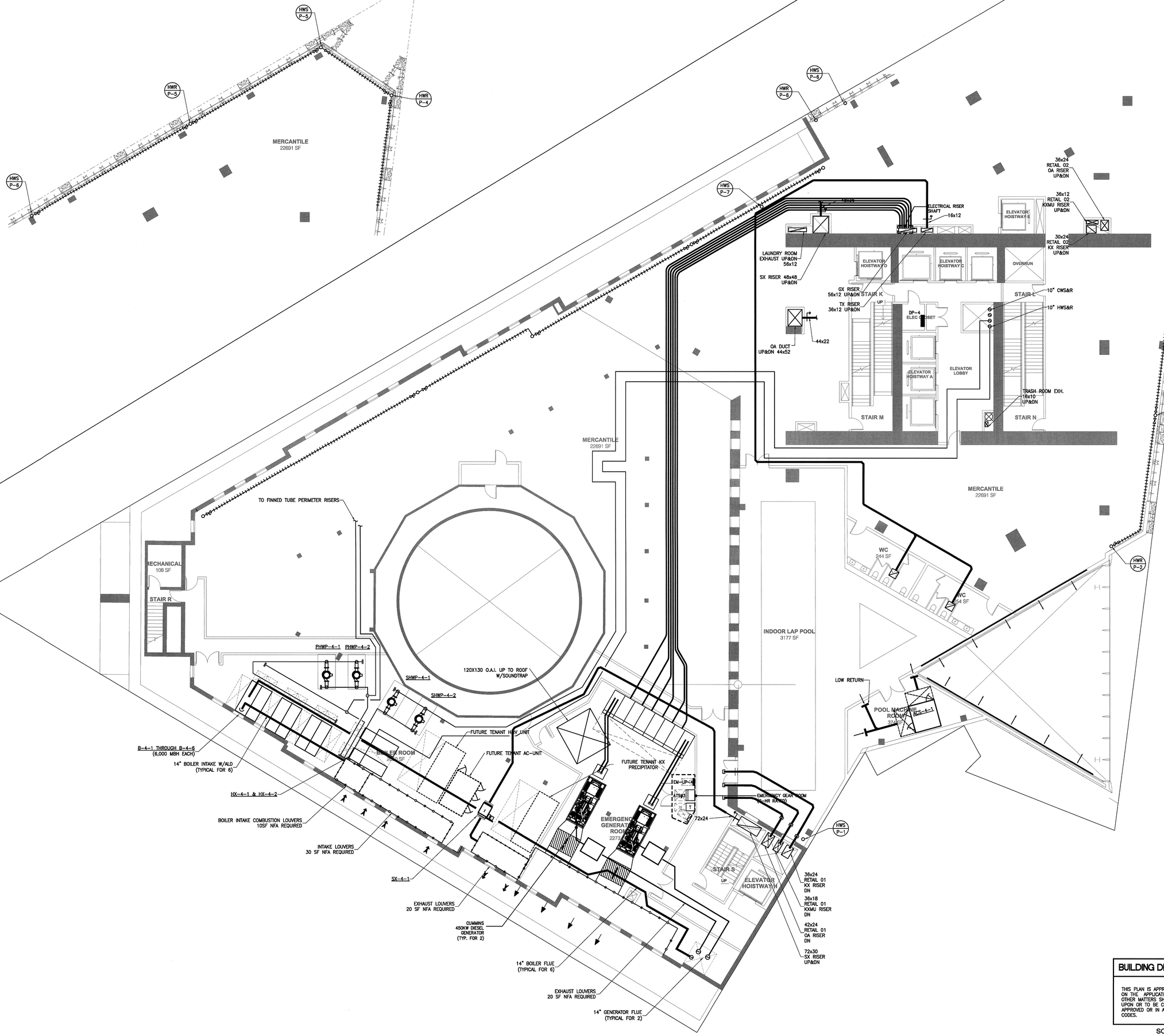
SEAL & SIGNATURE

STATE OF NEW YORK — DANIEL J. LIU — 027114 — LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338
DRAWING NUMBER	M-103.00

14 JULY, 2016

DEPT OF BUILDINGS 320914338 Job Number
E3315353555555 Scan Code



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SCALE: 1/8" = 1'-0"

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3940

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.5500

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.607.9898

GEOTECHNICAL ENGINEER
MPCE
229 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
150 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
594 BROADWAY SUITE 1206
NEW YORK, NY 10012
tel 646.666.0646

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768.6540

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

BMU ENGINEER
ENTEK ENGINNERING
168 MASS STREET
HACKENSACK, NJ 07601
tel 201.880.2800

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 16TH FLOOR
NEW YORK, NY 10018
tel 212.211.7000

BUILDING ENERGY
VIDARIS
260 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.686.5380

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.3325

POOL
TRACE POOL DESIGN
330 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4290

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340 FLATBUSH AVE EXT.
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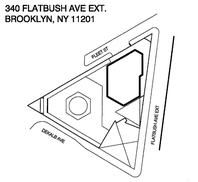

SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
04/01/16	PC & SOE DOB FILING SET			

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DRAWING TITLE

HVAC FLOOR PLAN- LEVEL 04

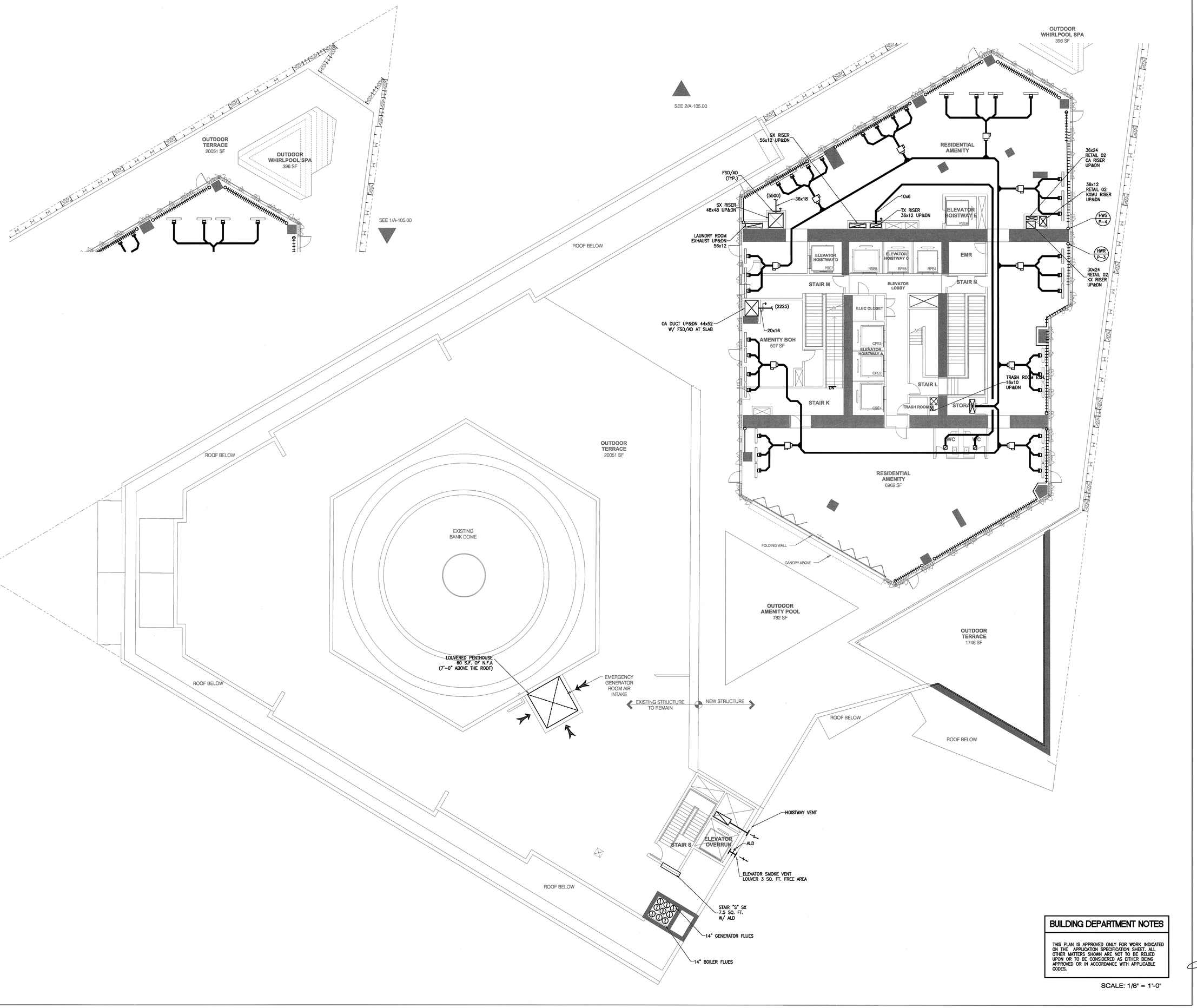
SEAL & SIGNATURE

STATE OF NEW YORK — THOMAS K. CHUNG — 087114 — LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338
DRAWING NUMBER	M-104.00

14-JULY-2015

DEPT OF BLDGS 320914338 Job Number
ES447233949 Scan Code



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SCALE: 1/8" = 1'-0"

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.605.5940

ARCHITECT
SHoP ARCHITECTS, P.C.
329 BROADWAY, 11TH FLOOR
NEW YORK, NY 10079
tel 212.888.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.5900

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225 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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MRCE
229 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9328

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100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.605.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, #10
NEW YORK, NY 10010
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INTERIORS
GACHOT
594 BROADWAY SUITE 609
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JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
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NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 509
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
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HACKENSACK, NJ 07601
tel 201.880.2882

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tel 212.334.3325

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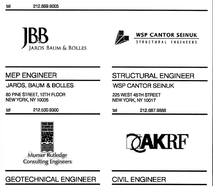

SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
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DRAWING TITLE

HVAC FLOOR PLAN- LEVEL 05

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STATE OF NEW YORK — JOSEPH LEVINE — 087114 — LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338
DRAWING NUMBER	M-105.00

14 JULY, 2016

BSFT OP BLOGG0001435 Job Number
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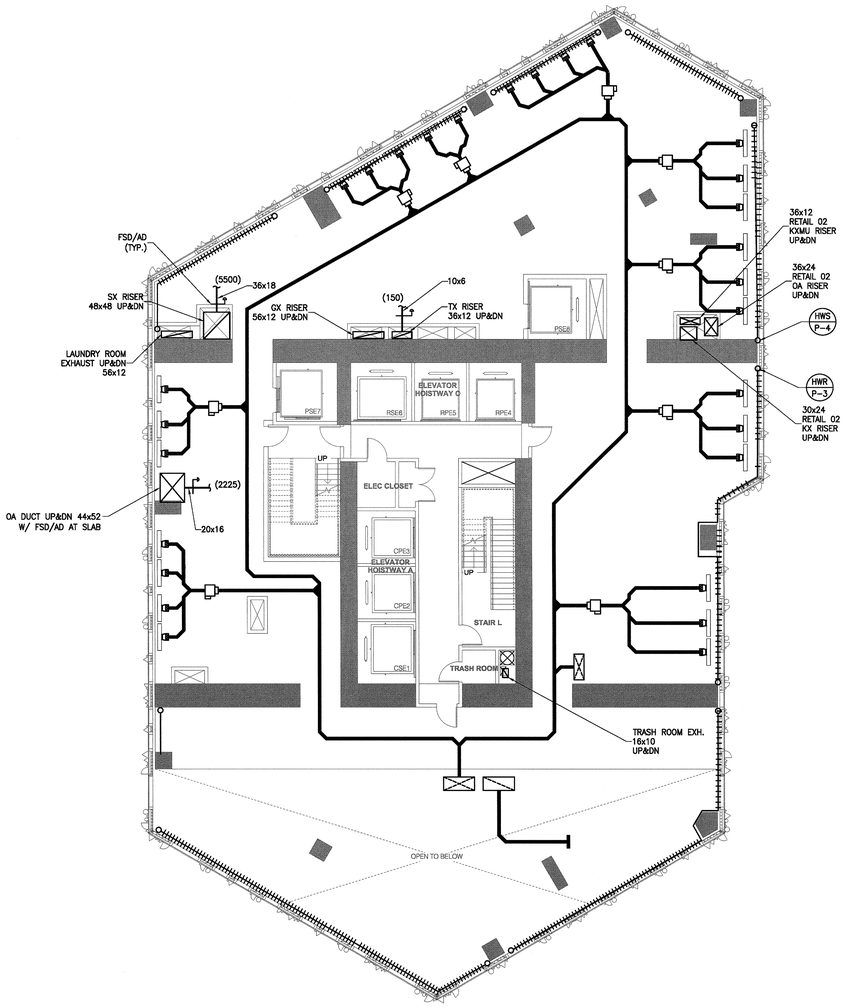

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.825.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.359.9000

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.320.8300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.687.5666

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9626

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7930

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.668.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6040

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LIGHTING
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227 WEST 27TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
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HACKENSACK, NJ 07601
tel 201.820.2602

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7000

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tel 212.588.5366

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NEW YORK, NY 10005
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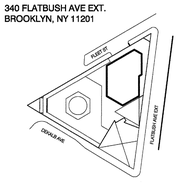

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04/01/19	PC & SCE DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

HVAC FLOOR PLAN- LEVEL 06

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STATE OF NEW YORK · JAMES A. LIVINGSTON · 087114 · LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914339

DRAWING NUMBER

M-106.00

14 JULY 2016

DEPT OF BUILDINGS 320914338 Job Number

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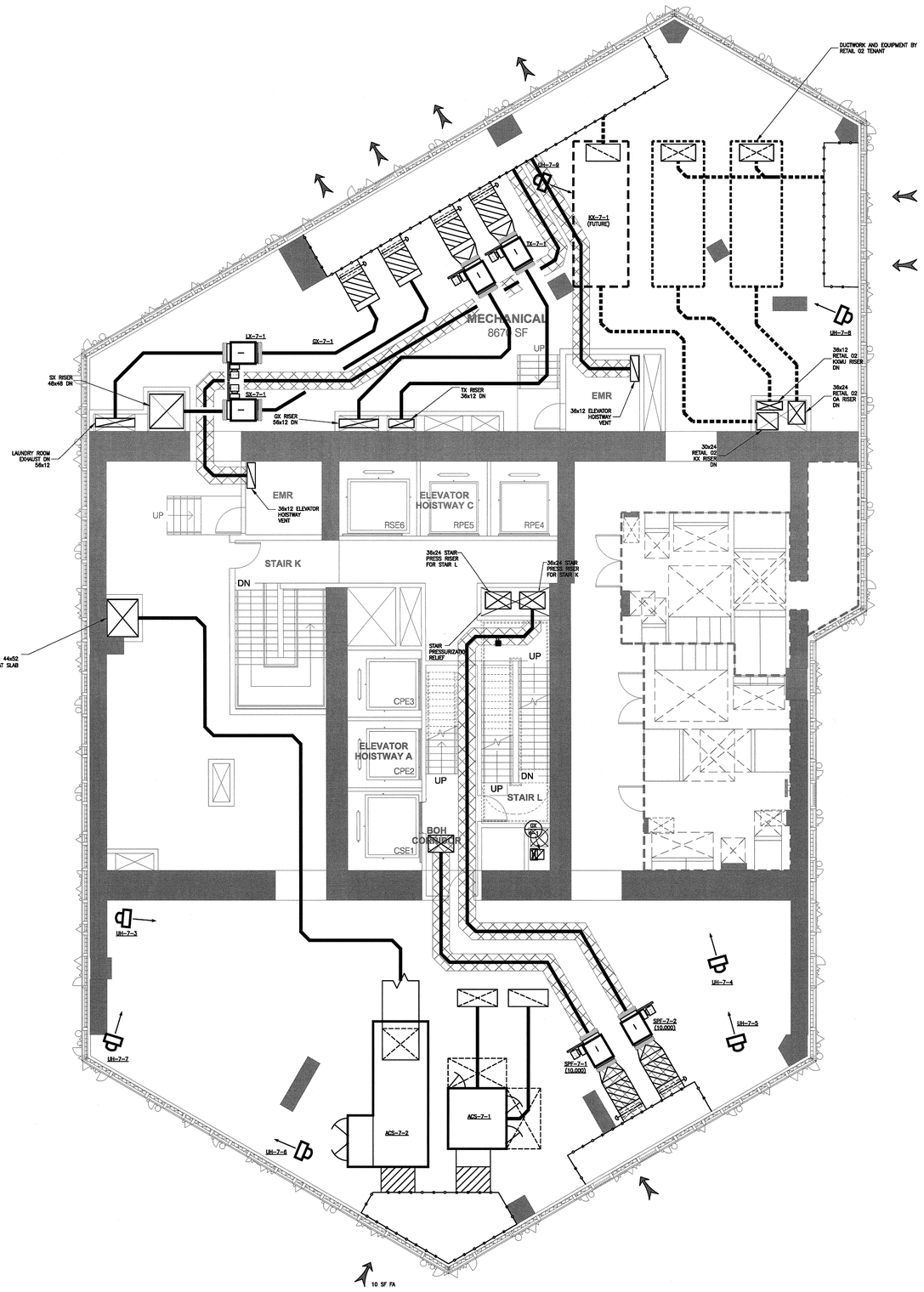

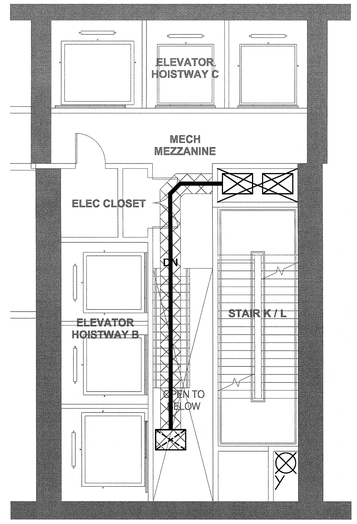

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JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.825.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9500

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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AKRF
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tel 646.388.9828

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100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7900

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0940

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
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36 WEST 37TH ST., FLOOR 15A
NEW YORK, NY 10018
tel 212.768.6540

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NEW YORK, NY 10001
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NEW YORK, NY 10018
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HACKENSACK, NJ 07601
tel 201.820.2602

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NEW YORK, NY 10018
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NEW YORK, NY 10005
tel 212.334.2325

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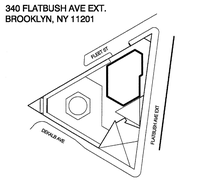

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DATE	ISSUE
07/15/16	DOB FILING SET
04/01/16	PD & BOE DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

HVAC FLOOR PLAN-
LEVEL 07 MECHANICAL

SEAL & SIGNATURE

STATE OF NEW YORK
JOSEPH A. LEE
LICENSED PROFESSIONAL ENGINEER
087114

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

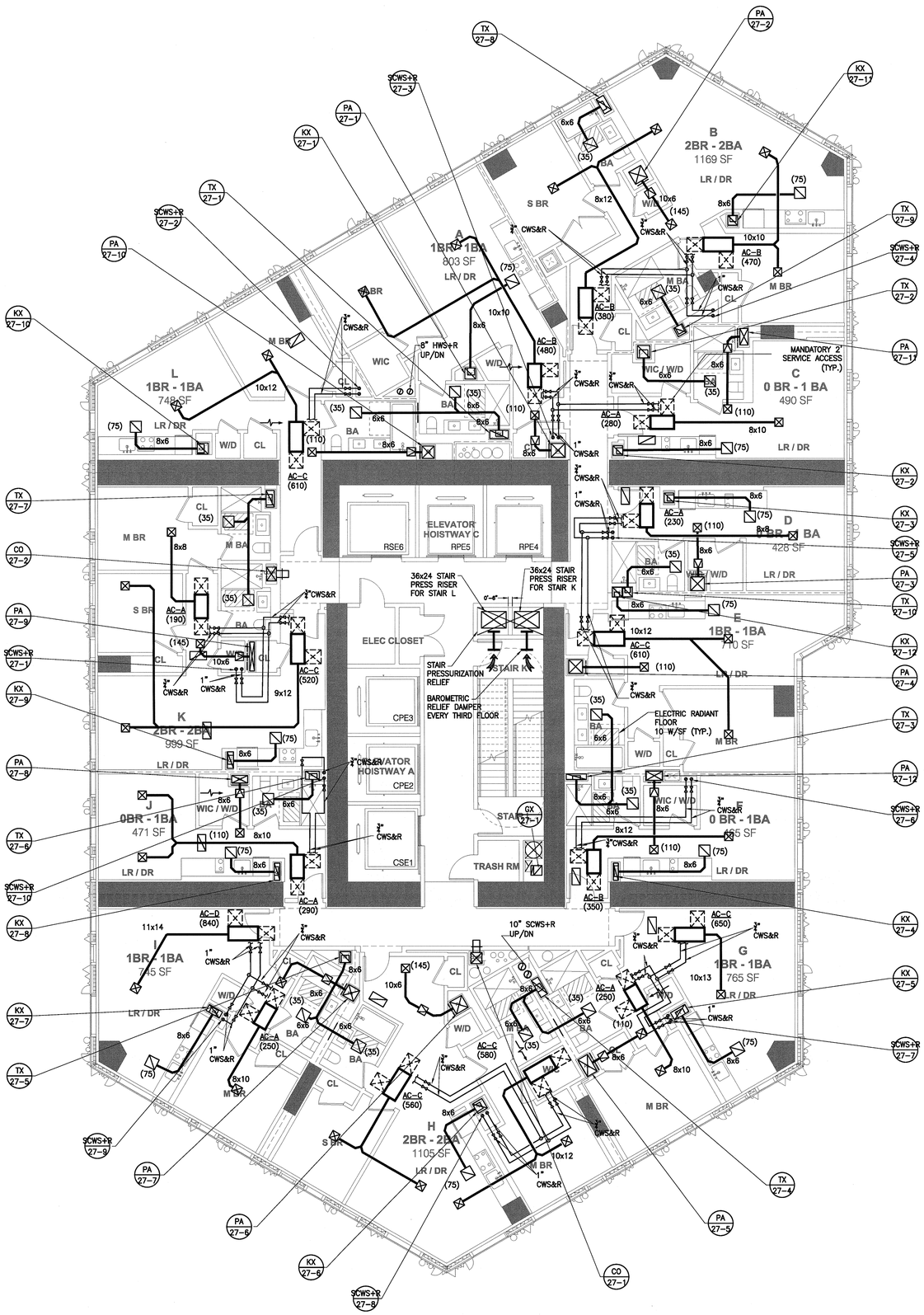
DRAWING NUMBER

M-107.00

14 JULY, 2016

DEPT OF BLDGS 320914338 Job Number

ES1352979573 Scan Code



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ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9300

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.320.5000

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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MRCE
229 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10018
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tel 646.388.9858

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120 CHOLLY ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

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THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
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NEW YORK, NY 10012
tel 646.666.0946

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HISTORIC PRESERVATION
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tel 212.815.8400

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ENTEK ENGINEERING
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HACKENSACK, NJ 07601
tel 201.820.3902

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10019
tel 212.271.7000

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NEW YORK, NY 10010
tel 212.689.3389

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BURO HAPPOLD
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NEW YORK, NY 10005
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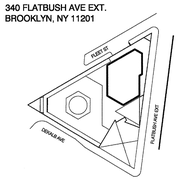

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DRAWING TITLE

HVAC
FLOOR PLAN - LEVEL 08
(TYP. 08 - 14)

SEAL & SIGNATURE

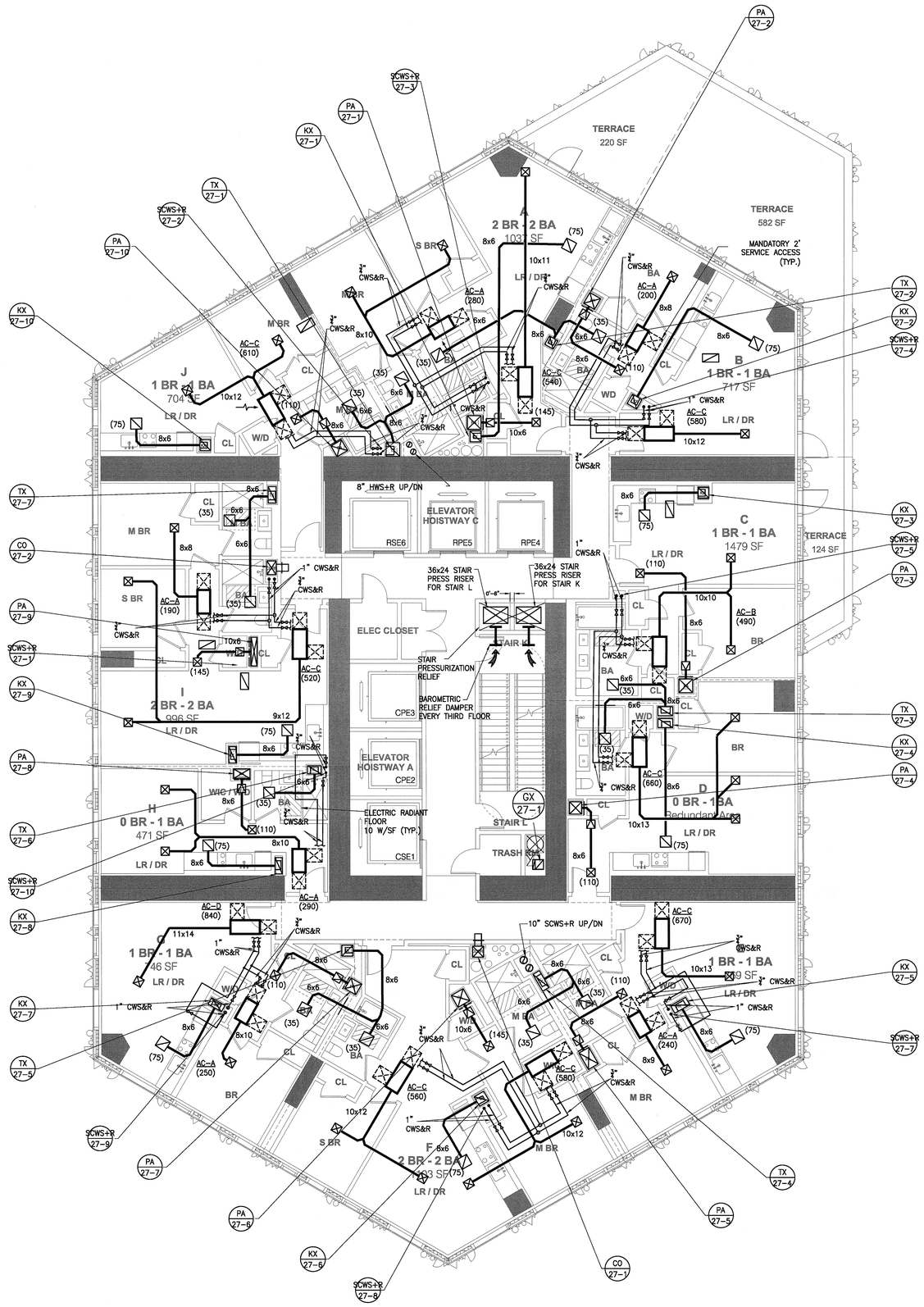
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

DRAWING NUMBER

M-108.00

14 JULY 2016

DEPT OF BLDGS 320914338 Job Number
B5141000410 Scan Code



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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.825.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
82 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.697.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 24TH STREET 6TH FLOOR
NEW YORK, NY 10036
tel 917.339.9300

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440 PARK AVE SOUTH 7TH FLOOR
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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
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EAST HANOVER, NJ 07936
tel 646.825.3940

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7900

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INTERIORS
GACHOT
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NEW YORK, NY 10012
tel 646.666.0946

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 15A
NEW YORK, NY 10018
tel 212.768.6040

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NEW YORK, NY 10001
tel 212.874.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 608
NEW YORK, NY 10018
tel 212.315.0400

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BMU ENGINEER
ENTEK ENGINEERING
198 AVES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10019
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
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tel 212.689.5389

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100 BROADWAY
NEW YORK, NY 10005
tel 212.334.3325

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POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.681.4300

9 DEKALB AVE

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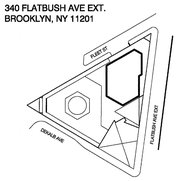
BROOKLYN, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
04/01/16	PC & SOE DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

HVAC
FLOOR PLAN- LEVEL 15
(TYP. 15 - 21)

SEAL & SIGNATURE

STATE OF NEW YORK — JAMES K. LIU — 028711 — LICENSED PROFESSIONAL ENGINEER

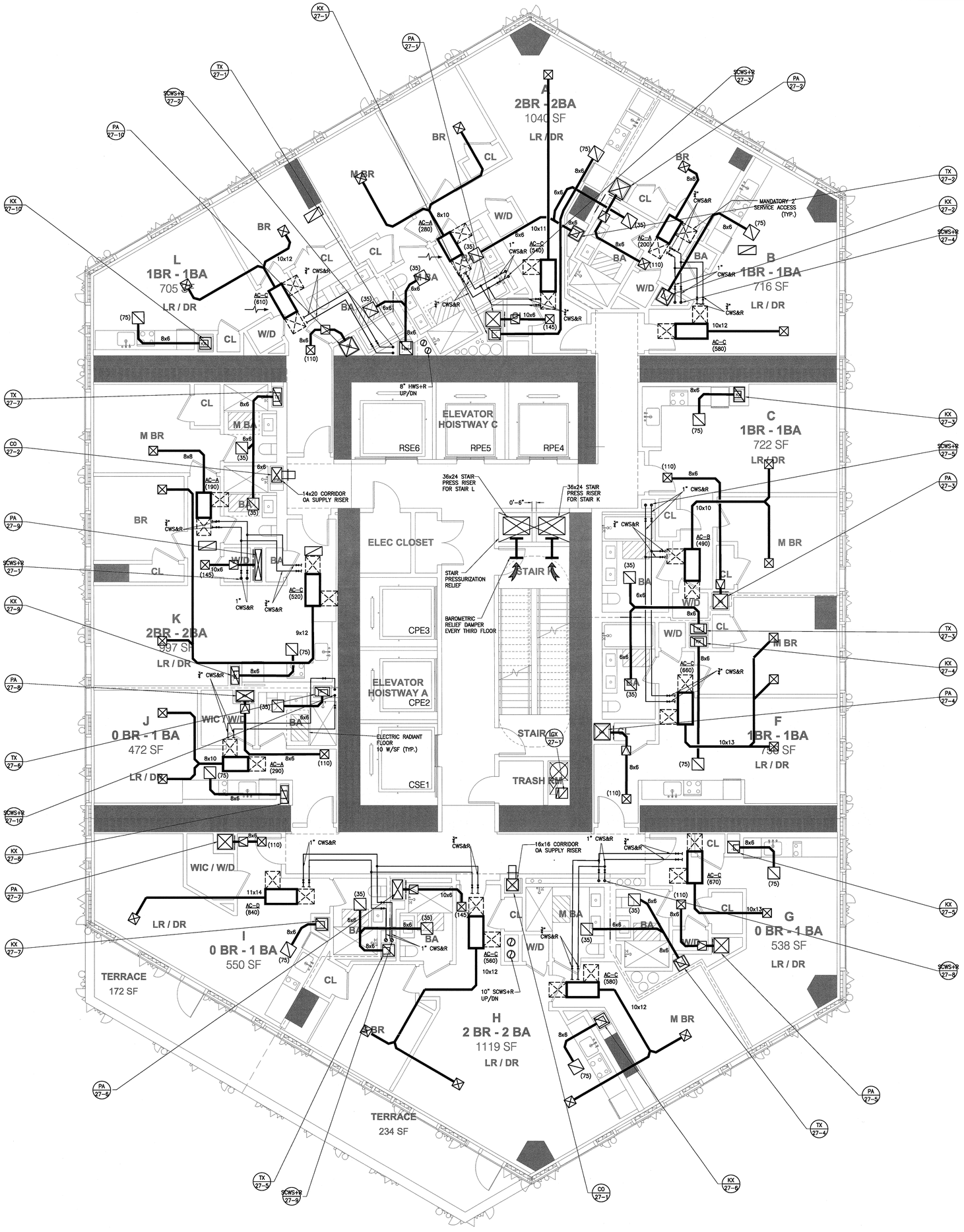
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

DRAWING NUMBER

M-115.00

14 JULY 2016

DEPT OF BLDGS 320914338 Job Number
E320970004M1 Scan Code



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SCALE: 1/4" = 1'-0"

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JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
330 BROADWAY, 11TH FLOOR
NEW YORK, NY 10079
tel 212.888.9055

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MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9500

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.607.8998

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #10
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0946

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768-9340

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NEW YORK, NY 10001
tel 212.874.6500

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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINEERING
108 AVES STREET
WOODBRIDGE, NJ 07901
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
590 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
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NEW YORK, NY 10010
tel 212.689.5360

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2505

LOTUS POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4280

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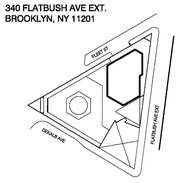
BROOKLYN, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
04/01/16	PC & BOE DOB FILING SET			

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DRAWING TITLE

HVAC
FLOOR PLAN - LEVEL 22
(TYP. 22 - 26)

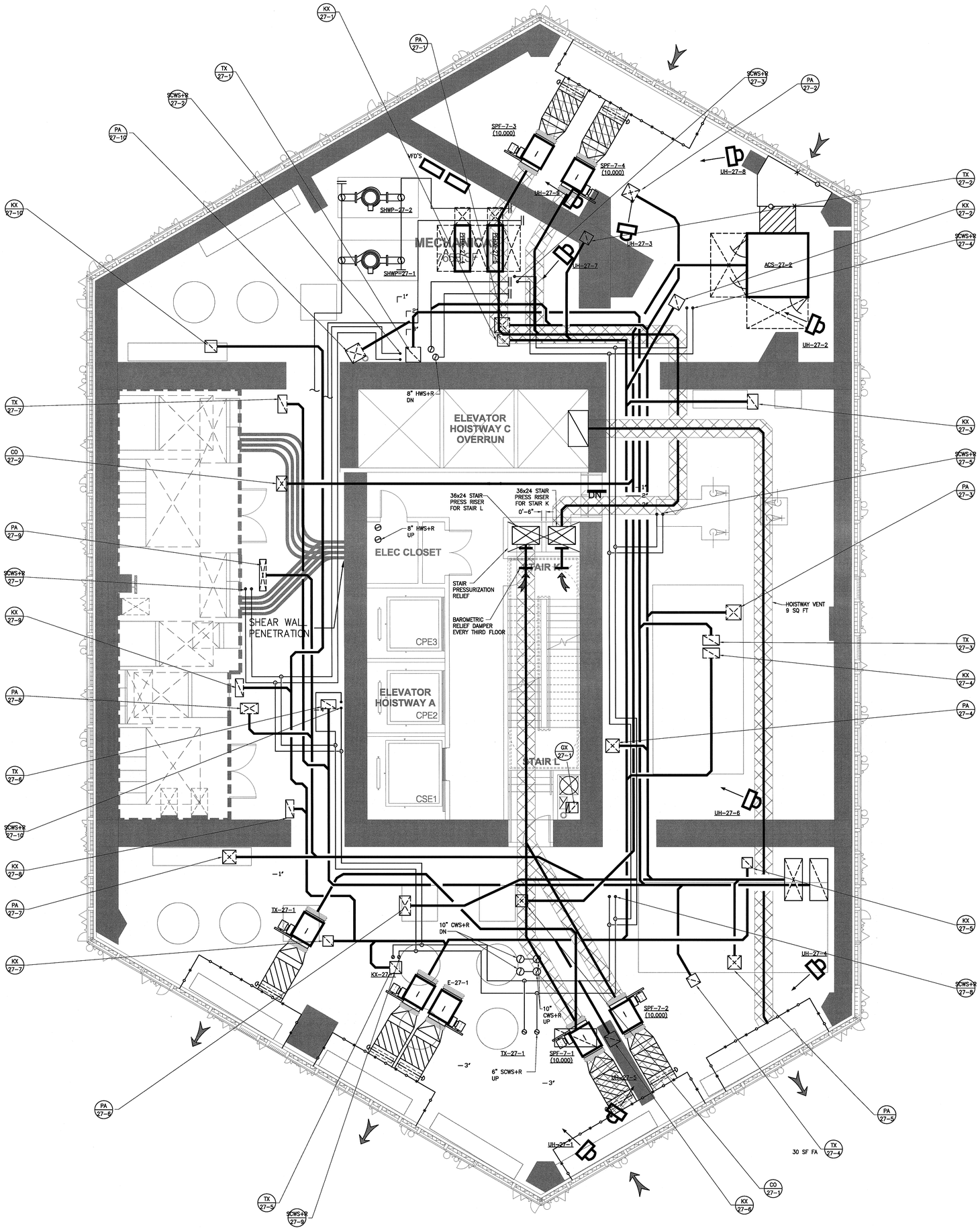
SEAL & SIGNATURE

STATE OF NEW YORK — JAMES LEE — 087114 — LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338
DRAWING NUMBER	M-122.00

14 JULY, 2016

BSPT OP BLOCK 00914338 Job Number
E3449952335 Scan Code



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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
333 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.888.9008

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
229 WEST 43TH STREET
NEW YORK, NY 10277
tel 212.697.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
220 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10165
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 CHOLE ROCK AVE.SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.665.5446

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768-6540

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LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.874.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 608
NEW YORK, NY 10018
tel 212.315.0400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
100 AIKEN STREET
MONTCLAIR, NJ 07801
tel 201.820.2800

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.211.7090

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 18TH FLOOR
NEW YORK, NY 10016
tel 212.689.5366

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2205

LOUTZOS TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.481.4300

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340 FLATBUSH AVE EXT.
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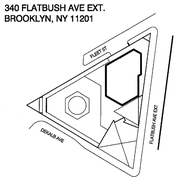

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DATE	ISSUE	NO.	DATE	REVISION
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04/01/16	PC & SOE DOB FILING SET			

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DRAWING TITLE

HVAC FLOOR PLAN- LEVEL 27 MECHANICAL

SEAL & SIGNATURE

STATE OF NEW YORK — JAMES LAI — 087114 — REGISTERED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338
DRAWING NUMBER	M-127.00

14 JULY 2016

DEPT OF BLDGS 320914338 Job Number

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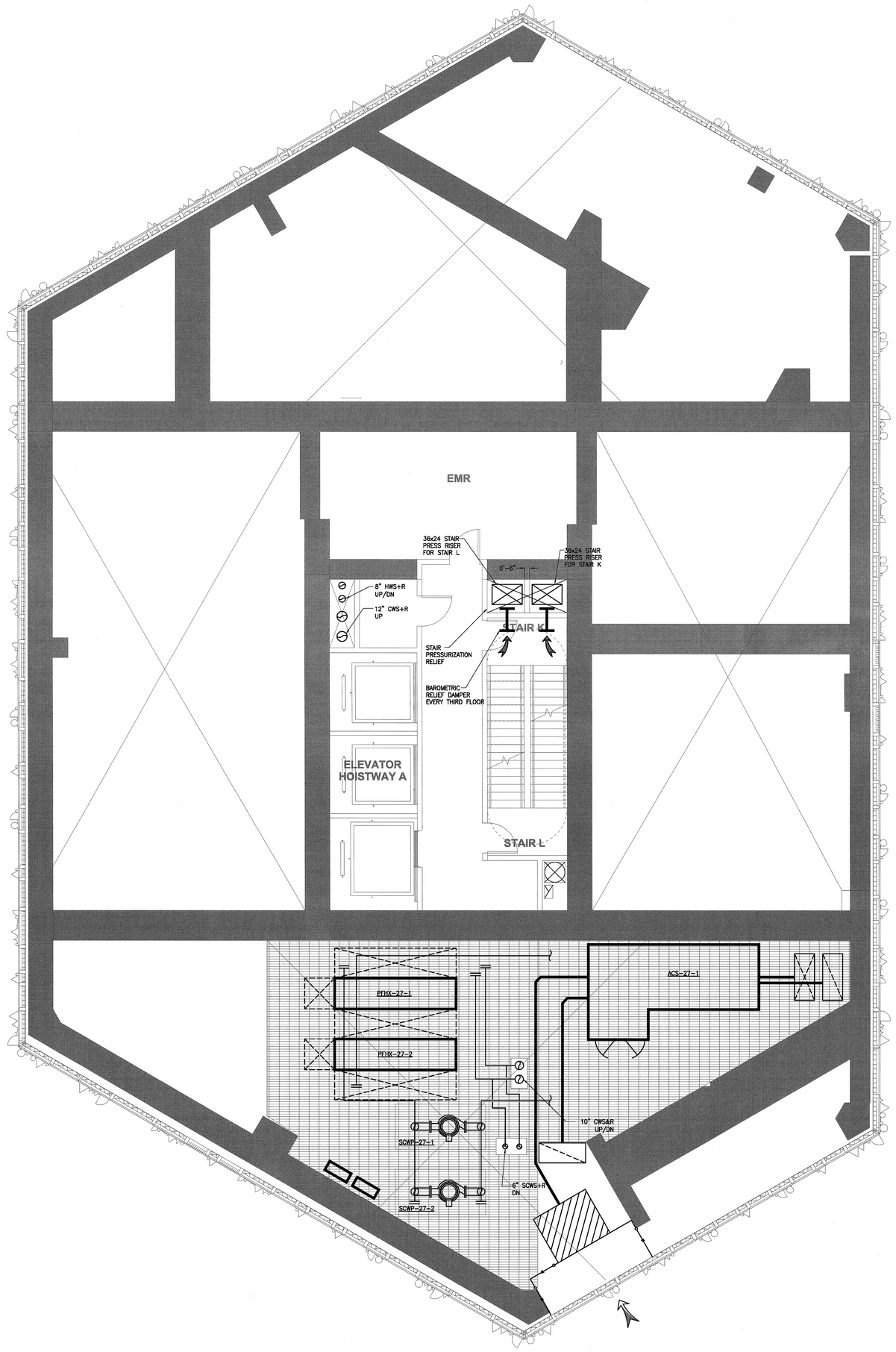

SCALE: 1/4" = 1'-0"

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHOP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.359.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.320.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10035
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7900

GACHOT

INTERIORS
GACHOT
684 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.665.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768-8040

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NEW YORK, NY 10001
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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.515-6400

ENTEK ENGINEERING LLC CIVIL/STRUCTURAL ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
188 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2800

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
950 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10019
tel 212.271.7050

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NEW YORK, NY 10010
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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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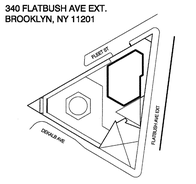
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET

04/21/16 PC & BOE DOB FILING SET

DATE ISSUE NO. DATE REVISION

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DRAWING TITLE

HVAC FLOOR PLAN-
LEVEL 27 MEZZANINE
MECHANICAL

SEAL & SIGNATURE

STATE OF NEW YORK · JOSEPH LEVINSON · LICENSED PROFESSIONAL ENGINEER · 087114

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

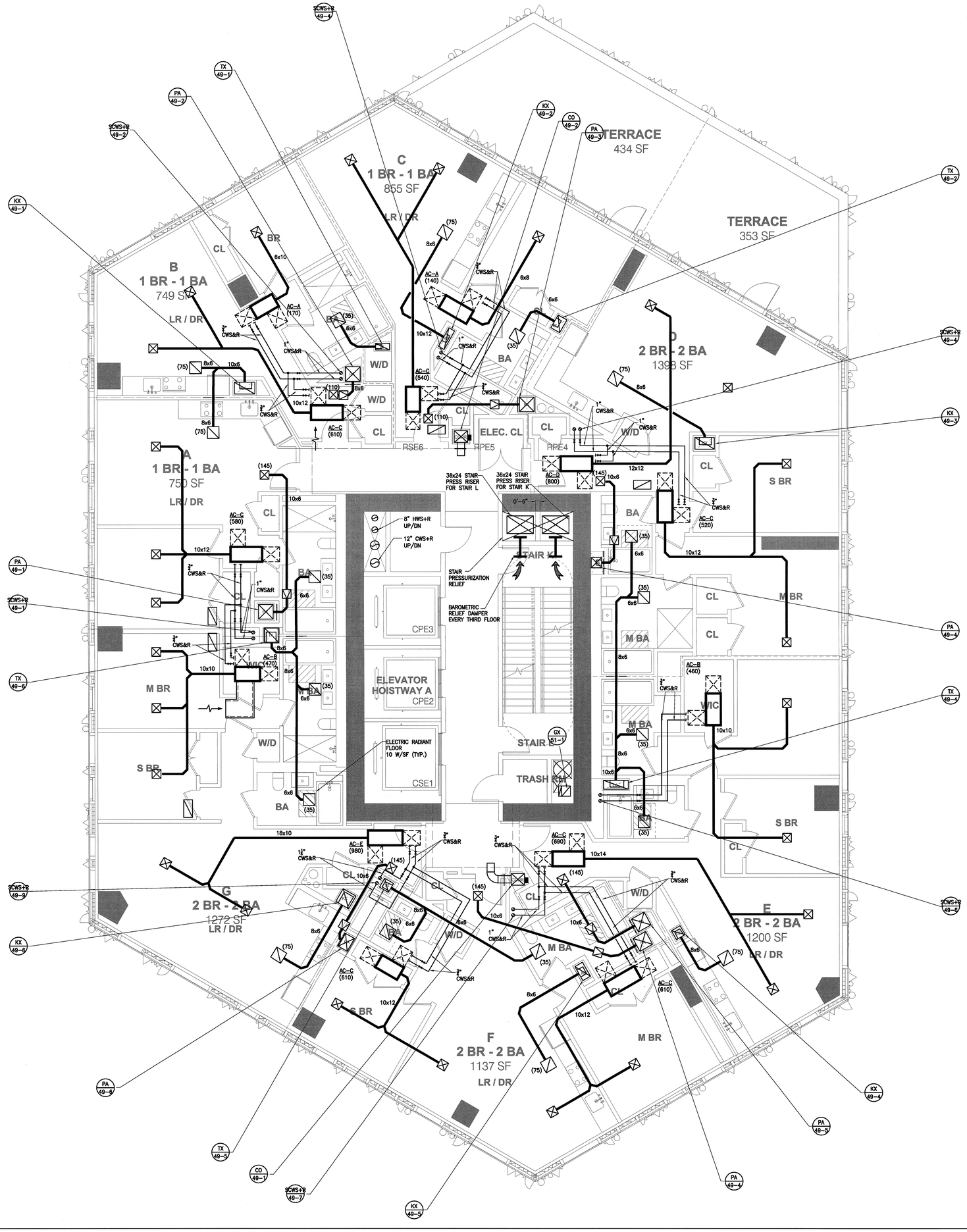
DRAWING NUMBER

M-128.00

14 JULY 2016

DEPT OF BLDGS 320914338 Job Number

ES7261181SK Scan Code



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SCALE: 1/4" = 1'-0"

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JDS DEVELOPMENT GROUP
104-19TH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.625.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9000

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.520.6000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 45TH STREET
NEW YORK, NY 10017
tel 212.697.5666

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 24TH STREET 6TH FLOOR
NEW YORK, NY 10022
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9898

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VERTICAL TRANSPORTATION
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120 EAGLE ROCK AVE, SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, FL 9
NEW YORK, NY 10010
tel 917.661.7860

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.865.0846

JHPA JAN HIRO POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRO POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.268.8040

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NEW YORK, NY 10001
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LONGMAN LINDSEY
1410 BROADWAY SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
196 ANDS STREET
HACKENSACK, NJ 07601
tel 201.820.2602

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
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VIDARIS
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NEW YORK, NY 10010
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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
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tel 914.495.4750

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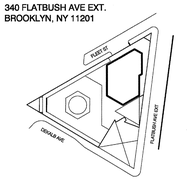

SITE DIAGRAM

DATE	ISSUE
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04/01/16	PD & SCE DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

HVAC
FLOOR PLAN - LEVEL 28
(TYP. 28 - 33)

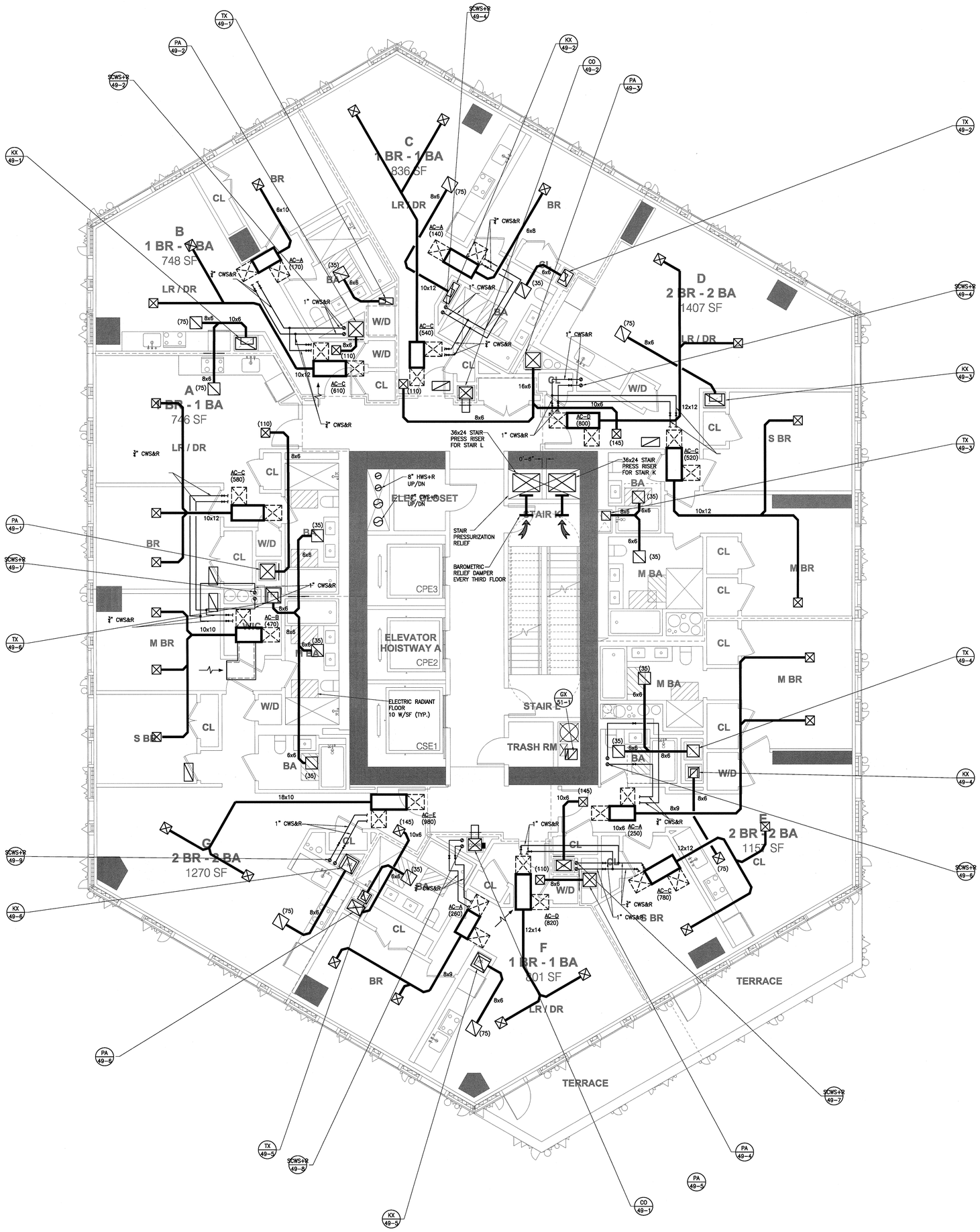
SEAL & SIGNATURE

STATE OF NEW YORK — JOSEPH LEE — 087114 — LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338
DRAWING NUMBER	M-129.00

14 JULY 2015

DEPT OF BLDGS 320914338 Job Number
B00052240B3 Scan Code



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SCALE: 1/4" = 1'-0"

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.625.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.888.9008

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 46TH STREET
NEW YORK, NY 10036
tel 212.697.9666

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 54TH STREET 6TH FLOOR
NEW YORK, NY 10019
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
150 SHOJLE NOCK AVE.SUITE 310
EAST HANOVER, NJ 07936
tel 646.826.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE.#18
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
584 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.668.0946

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768-6540

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LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 509
NEW YORK, NY 10018
tel 212.315.0400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
166 AKES STREET
MADISONNJ, NJ 07901
tel 201.800.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.871.7000

VIDARIS

BUILDING ENERGY
VIDARIS
580 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2325

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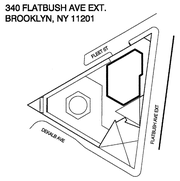
POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4350

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
04/01/16	PC & BOE DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

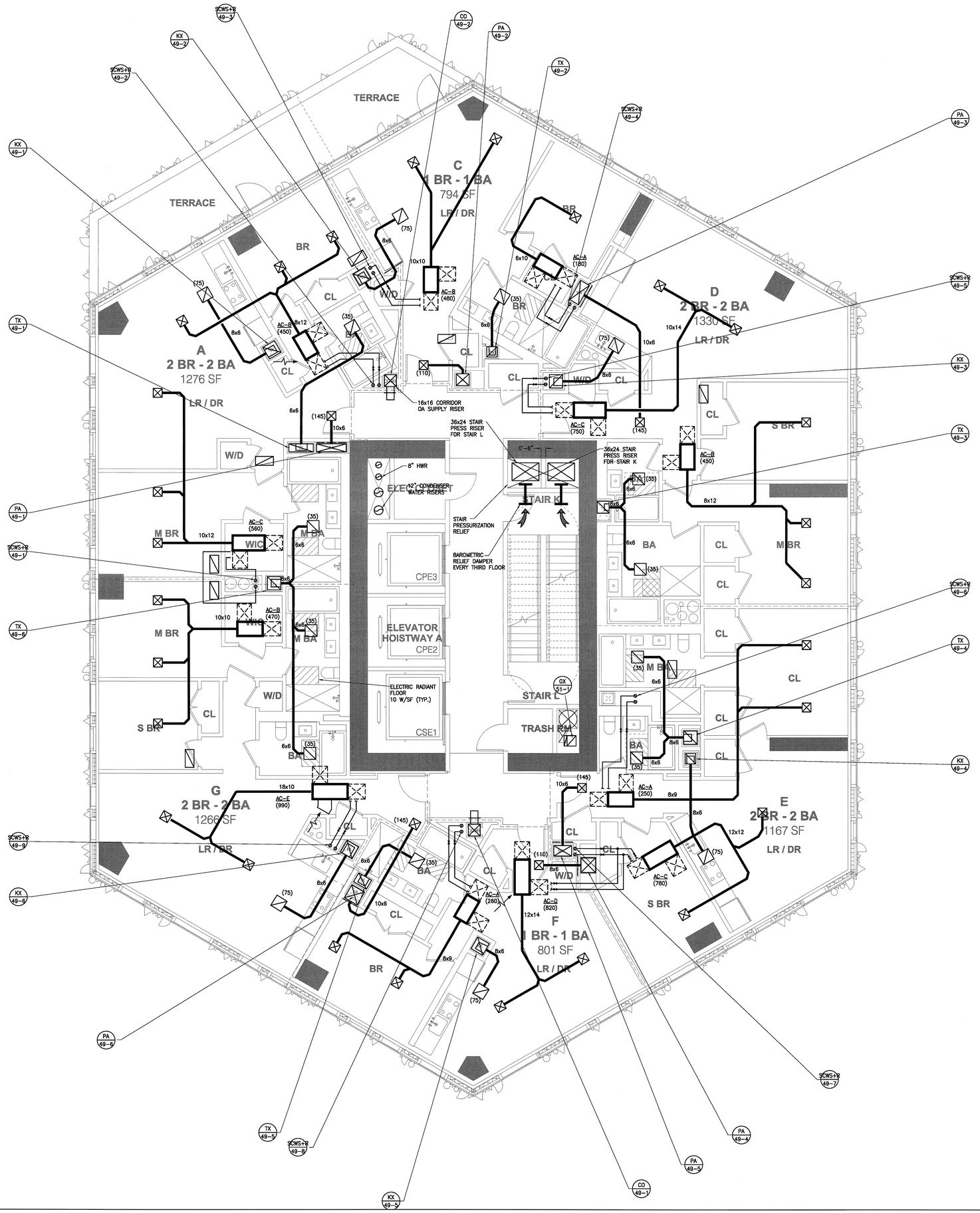
HVAC FLOOR PLAN- LEVEL 34 (TYP. 34-39)

SEAL & SIGNATURE

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338
DRAWING NUMBER	M-134.00

14 JULY, 2016

DEPT OF BLDGS 320914338 Job Number
E350035176B5 Scan Code



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SCALE: 1/4" = 1'-0"

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10001
tel 646.825.3940

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.667.9988

GEOTECHNICAL ENGINEER
MRCE
220 WEST 24TH STREET 6TH FLOOR
NEW YORK, NY 10032
tel 917.359.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.568.0846

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6040

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
14 E BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6460

BMU ENGINEER
ENTEK ENGINEERING
188 AVES STREET
HACKENSACK, NJ 07601
tel 201.820.2600

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.211.7000

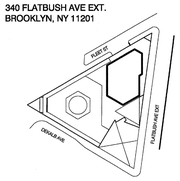
BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.889.5369

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.0325

POOL
TRADE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.455.4200

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



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04/01/16	PD & BOE DOB FILING SET			

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DRAWING TITLE:

HVAC FLOOR PLAN- LEVEL 40 (TYP. 40-44)

SEAL & SIGNATURE

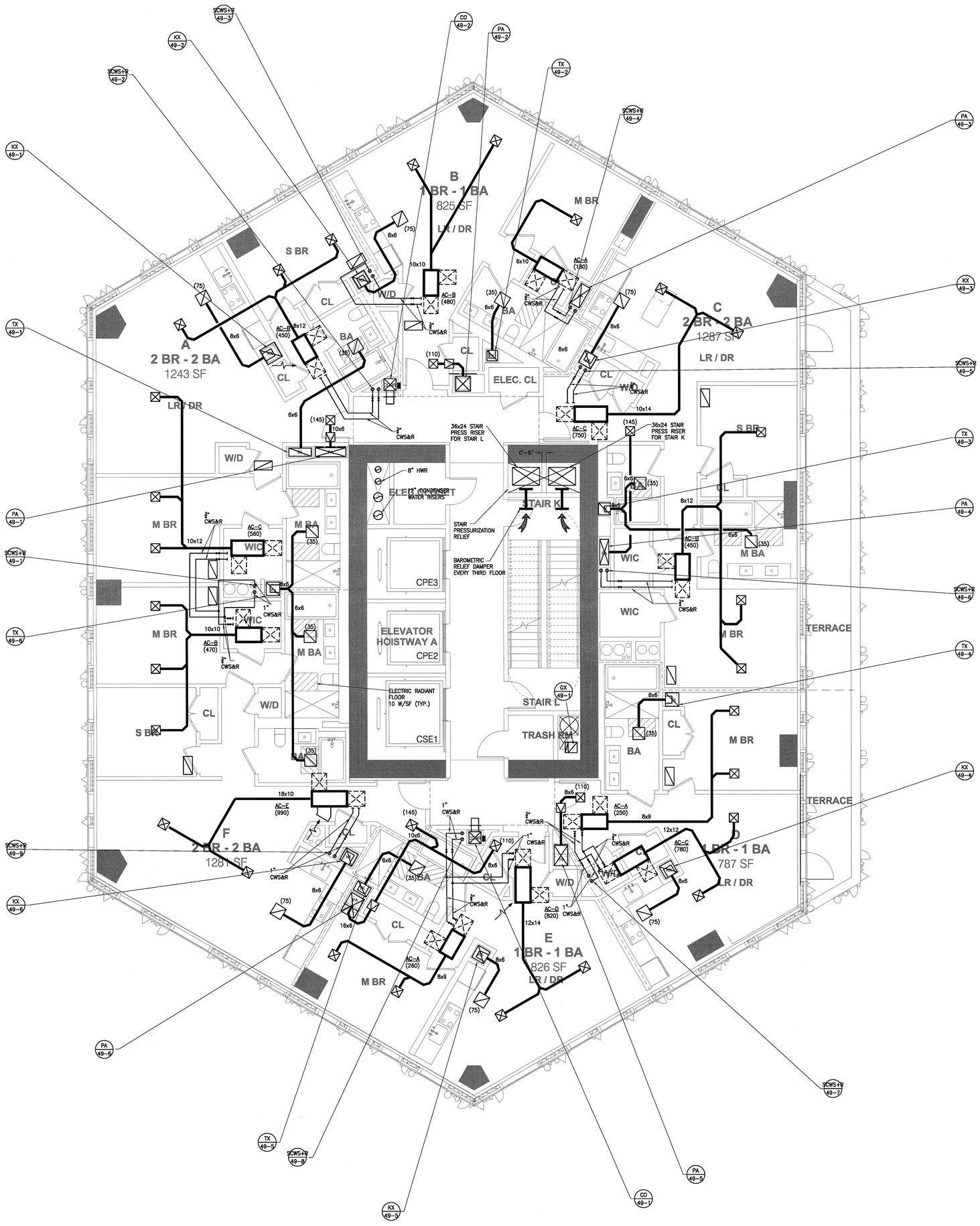
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

DRAWING NUMBER

M-140.00

14 JULY 2016

BSFT OP BLOCK 3009143.00 Job Number
B3253224783 Scan Code



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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10079
tel 212.888.9000

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.5500

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10007
tel 212.667.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

OAKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
130 EAGLE ROCK AVE,SUITE 210
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.668.0646

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768.6540

BOLD

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 608
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CIVIL/STRUCTURAL ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
186 AMES STREET
HACKENSACK, NJ 07601
tel 201.883.0900

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
350 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.971.7590

VIDARIS

BUROHAPPOLD ENGINEERING

BUILDING ENERGY
VIDARIS
580 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.684.5300

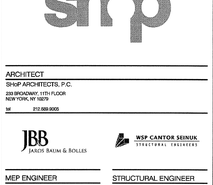
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.3325

Lollipop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
330 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.686.4390

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



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NO.	DATE	REVISION

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DRAWING TITLE

HVAC
FLOOR PLAN - LEVEL 45
(TYP. 45 - 48)

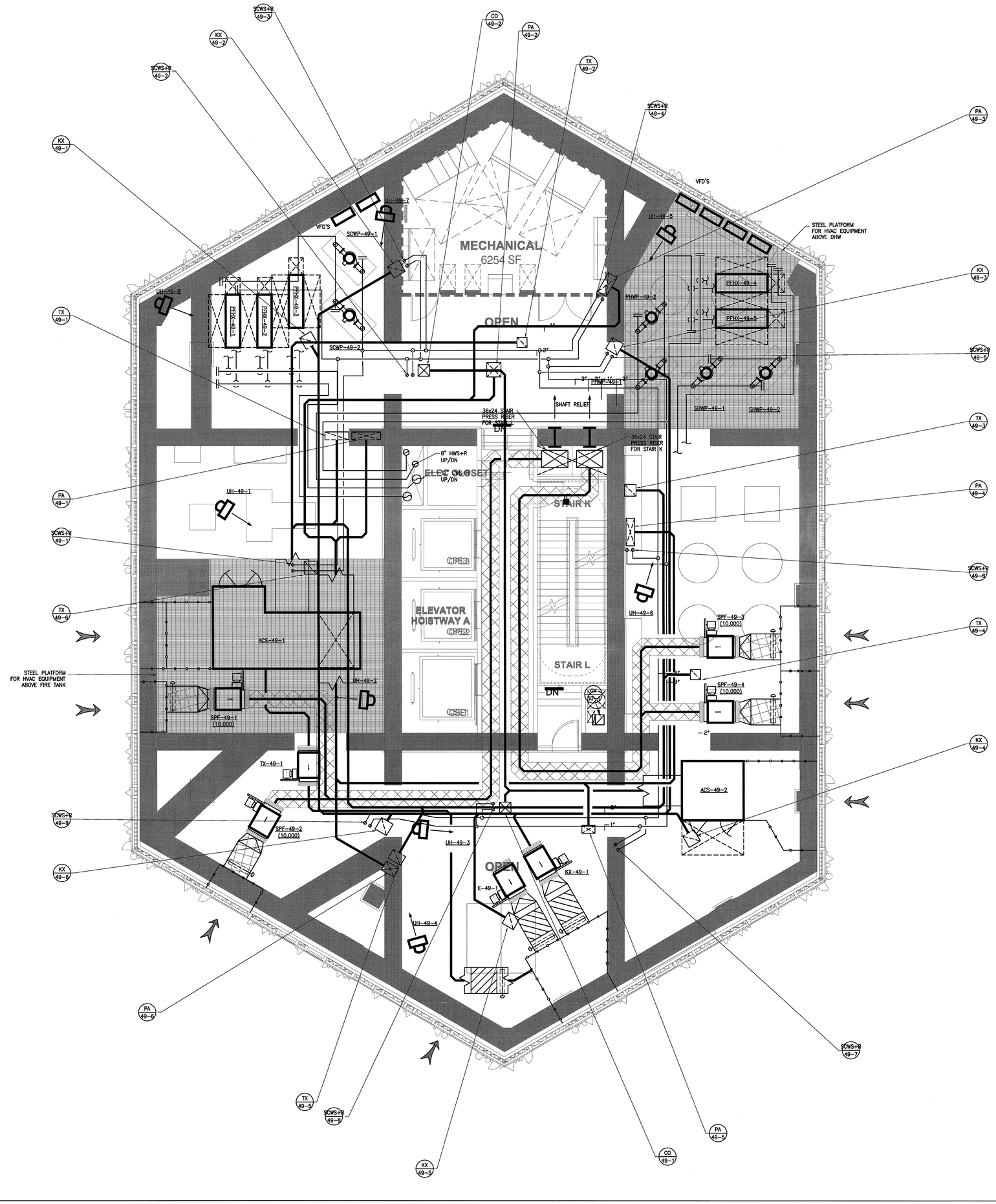
SEAL & SIGNATURE

STATE OF NEW YORK · JAMES K. LIU · 082711 · LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338
DRAWING NUMBER	M-145.00

14 JULY, 2016

BSFT OP BLDG 320914338 Job Number
ESQ-M0824455 Scan Code



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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.825.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES
WSP CANTOR SEINUK STRUCTURAL ENGINEERS

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.5000

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9999

Mueser Rutledge Consulting Engineers
AKRF

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda
Thornton Tomasetti

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT
JHPA JAN HIRD POKORNY ASSOCIATES

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768.6540

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NEW YORK, NY 10001
tel 212.674.8500

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1410 BROADWAY, SUITE 608
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
188 INNES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
350 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10019
tel 212.271.7000

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VIDARIS
380 PARK AVENUE SOUTH, 10TH FLOOR
NEW YORK, NY 10010
tel 212.689.5369

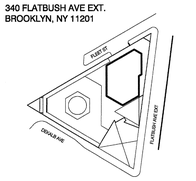
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

LOLLYPOP TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
320 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4290

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

07/15/16	DOB FILING SET
04/01/16	PO & SOE DOB FILING SET

DATE ISSUE NO. DATE REVISION

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DRAWING TITLE

49TH FLOOR
HVAC PLAN

SEAL & SIGNATURE

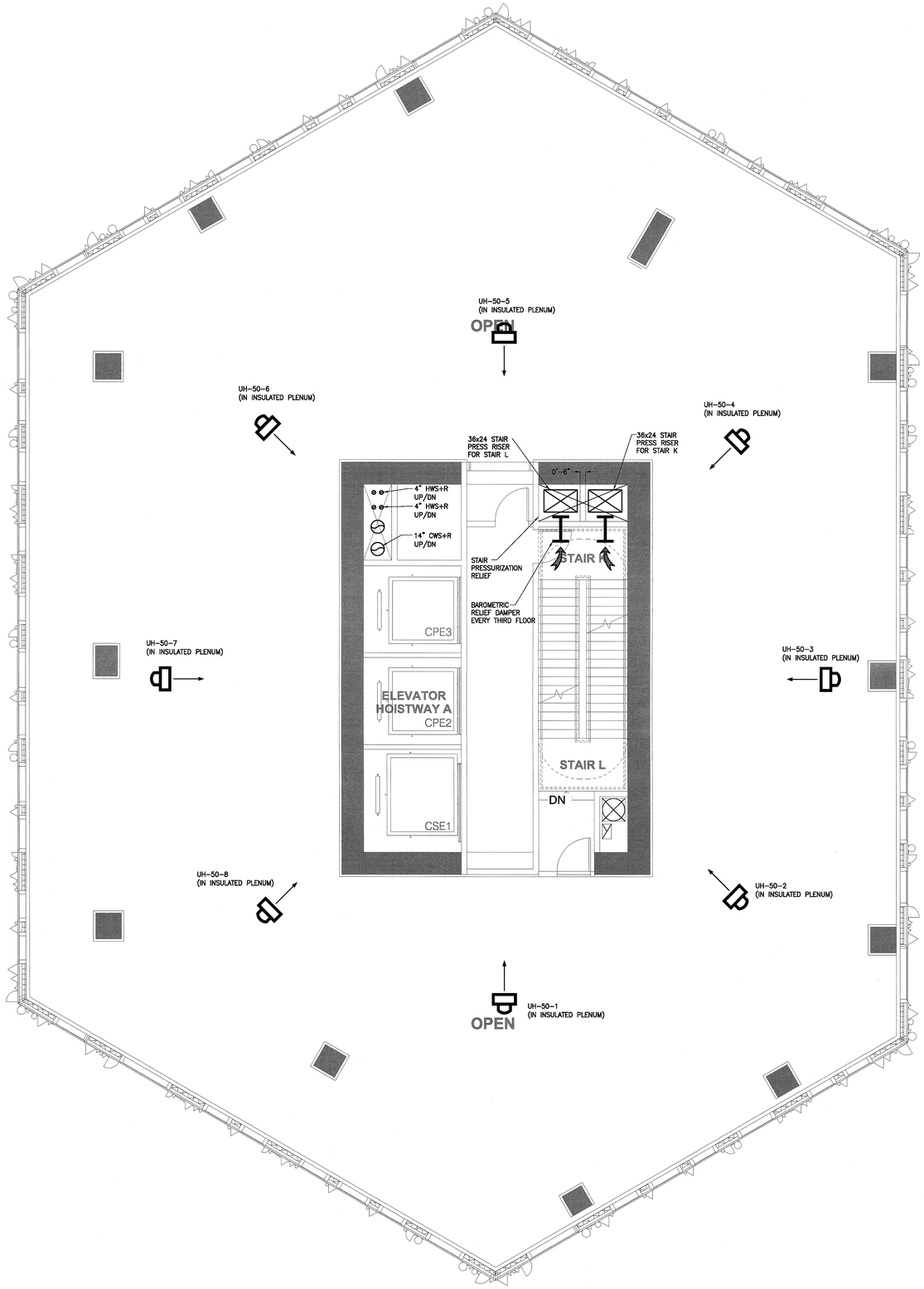
STATE OF NEW YORK JAMES K. LAI 087114 LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338
DRAWING NUMBER	M-149.00

14 JULY 2016

DEPT OF BLDGS 320914338 Job Number

B3499522.MOB Scan Code



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SCALE: 1/4" = 1'-0"

DEVELOPER
JDS DEVELOPMENT GROUP
124 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.825.3040

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.888.8005

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9488

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
130 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3040

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7900

INTERIORS
GACHOT
55H BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.668.0846

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6040

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

BMU ENGINEER
ENTEK ENGINEERING
198 AVES STREET
HACKENSACK, NJ 07601
tel 201.820.3902

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.211.7000

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.668.5380

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.0325

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4390

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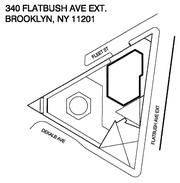
340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
04/01/16	PD & SOE DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

HVAC FLOOR PLAN-
LEVEL 50
MECH./WINDBREAK

SEAL & SIGNATURE

STATE OF NEW YORK
JAMES R. LIMA
087114
LICENSED PROFESSIONAL ENGINEER

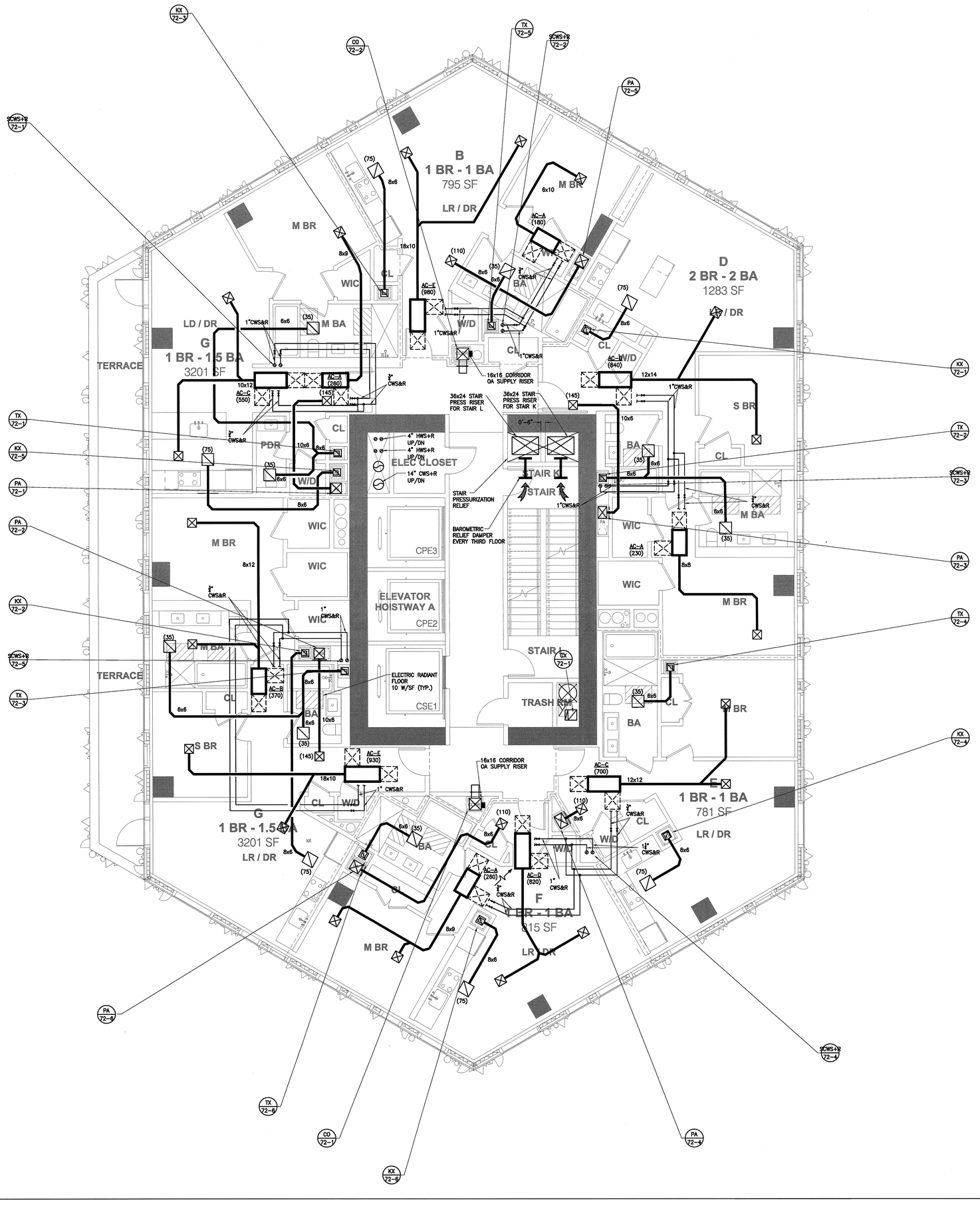
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

DRAWING NUMBER

M-150.00

14 JULY 2016

DEPT OF BUILDINGS 320914338 Job Number
E320000339350 Scan Code



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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.359.6000

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.320.8000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
229 WEST 43TH STREET
NEW YORK, NY 10036
tel 212.867.9660

Ahamer Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9808

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 CHAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.966.3646

JHPA

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
36 WEST 39TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.8040

BOLD

Longman Lindsey

LIGHTING
BOLD
207 WEST 25TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
141 E BROADWAY, SUITE 308
NEW YORK, NY 10018
tel 212.515.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

SIMPSON GUMPERTZ & HEGER

BMU ENGINEER
ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.0902

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
950 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUROHAPPOLD ENGINEERING

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH - 15TH FLOOR
NEW YORK, NY 10010
tel 212.589.0389

BUROHAPPOLD ENGINEERING

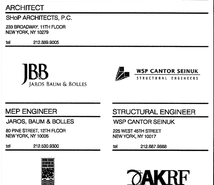
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4090

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET
04/01/16 PC & SOE DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

HVAC FLOOR PLAN-
LEVEL 51
(TYP. 51-55)

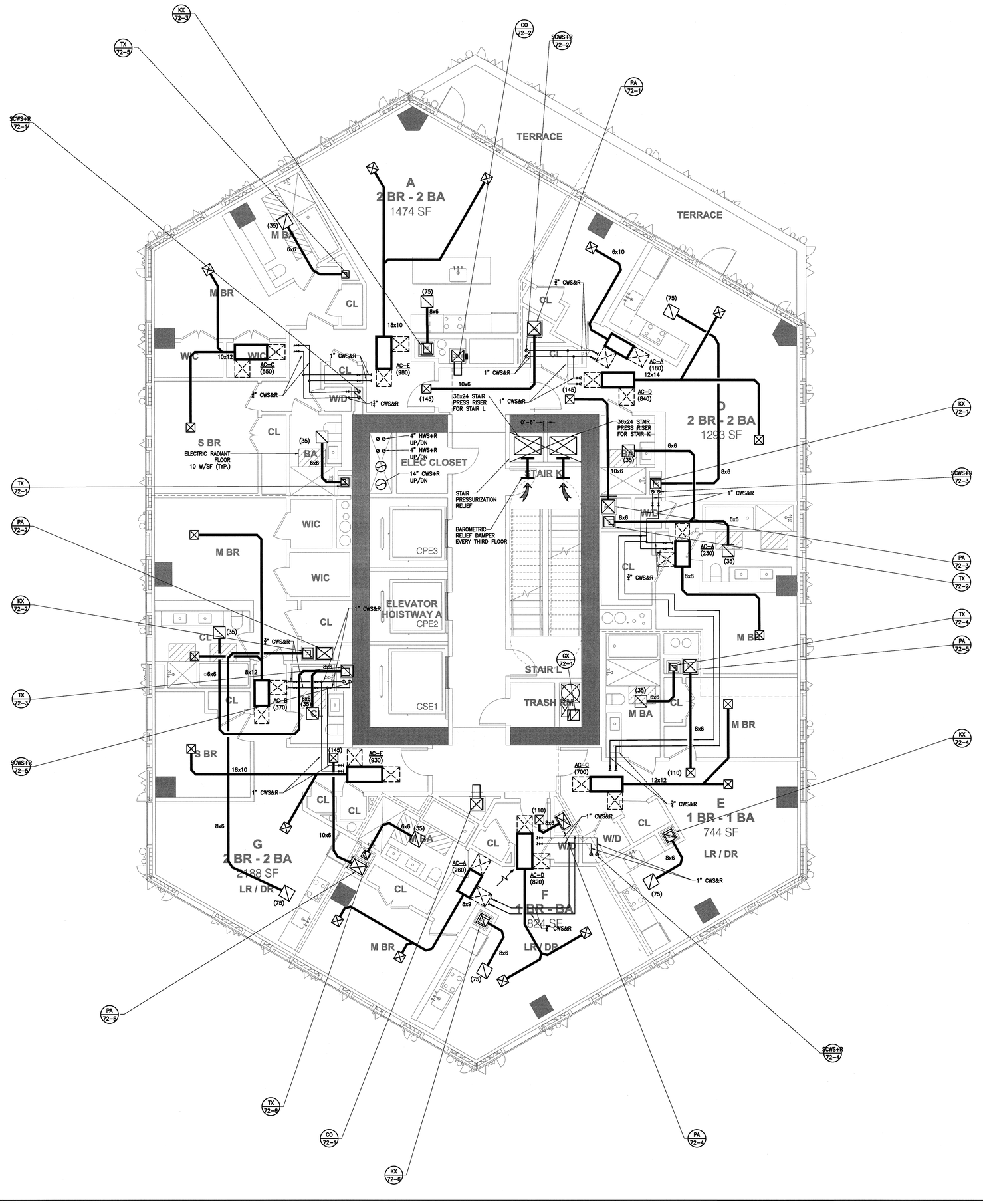
SEAL & SIGNATURE

STATE OF NEW YORK — JAMES LAI — 087114 — LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338
DRAWING NUMBER	M-151.00

14 JULY 2016

DEPT OF BLDGS 320914338 Job Number
E302355811SH Scan Code



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JDS DEVELOPMENT GROUP
109 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10001
tel 646.625.3840

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.888.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.5500

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
229 WEST 40TH STREET
NEW YORK, NY 10007
tel 212.687.9888

Ahamer Kolodgie Consulting Engineers

GEOTECHNICAL ENGINEER
MHCE
333 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10018
tel 917.338.6500

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9858

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 CHESTNUT RIDGE ROAD, SUITE 200
MONTVALE, NJ 07645
tel 201.391.7100

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 1009
NEW YORK, NY 10012
tel 646.666.0946

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 15A
NEW YORK, NY 10018
tel 212.768.6540

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237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 504
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINERING
168 AXES STREET
MADISONDACK, NJ 07901
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7090

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VIDARIS
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NEW YORK, NY 10010
tel 212.689.5388

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BURO HAPPOLD
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NEW YORK, NY 10005
tel 212.334.2005

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tel 914.482.4090

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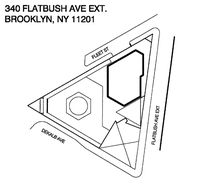

SITE DIAGRAM

07/15/16 DOB FILING SET
04/21/16 PD & SOE DOB FILING SET

DATE ISSUE NO. DATE REVISION

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DRAWING TITLE

HVAC FLOOR PLAN- LEVEL 56 (TYP. 56-60)

SEAL & SIGNATURE

STATE OF NEW YORK JAMES K. WINES 082114 REGISTERED ARCHITECT

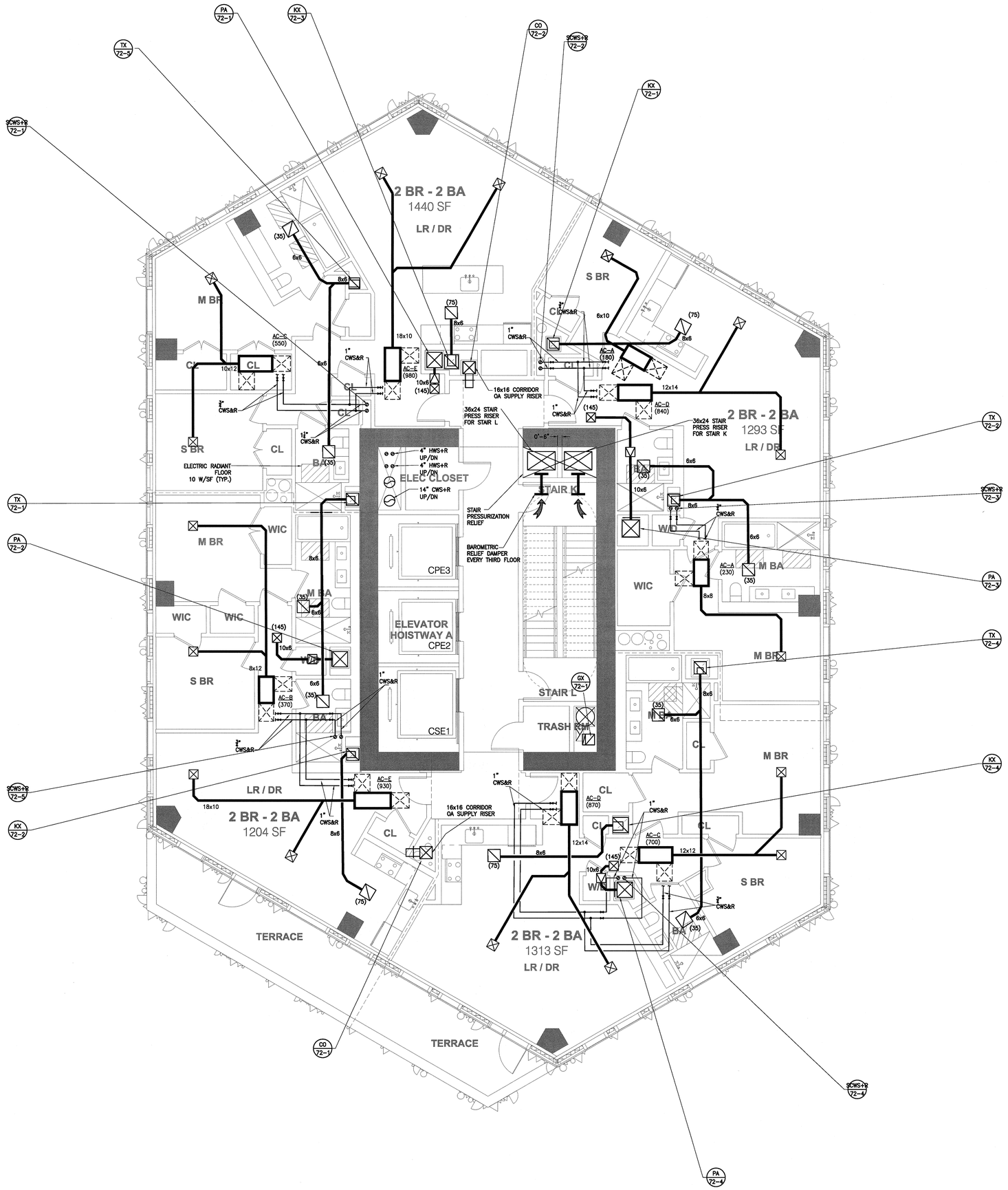
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

DRAWING NUMBER

M-156.00

14 JULY 2016

DEPT OF BLDGS 320914338 Job Number
E-FILE 2620220765 Scan Code



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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
109 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.6005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
30 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.620.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
229 WEST 43CH STREET
NEW YORK, NY 10017
tel 212.687.3688

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GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9559

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
130 DAISLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
424 BROADWAY SUITE 509
NEW YORK, NY 10013
tel 646.695.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768.8540

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Longman Lindsey

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 908
NEW YORK, NY 10018
tel 212.315.6400

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SIMPSON GUMPERTZ & HEGER

BMU ENGINEER
ENTEK ENGINEERING
168 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
350 SEVENTH AVENUE, 16TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BURO HAPPOLD ENGINEERING

BUILDING ENERGY
VIDARIS
160 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.689.5380

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2005

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333 WESTCHESTER AVENUE
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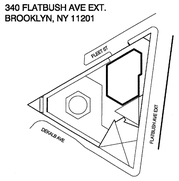

SITE DIAGRAM

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DRAWING TITLE

HVAC
FLOOR PLAN - LEVEL 61
(TYP. 61 - 64)

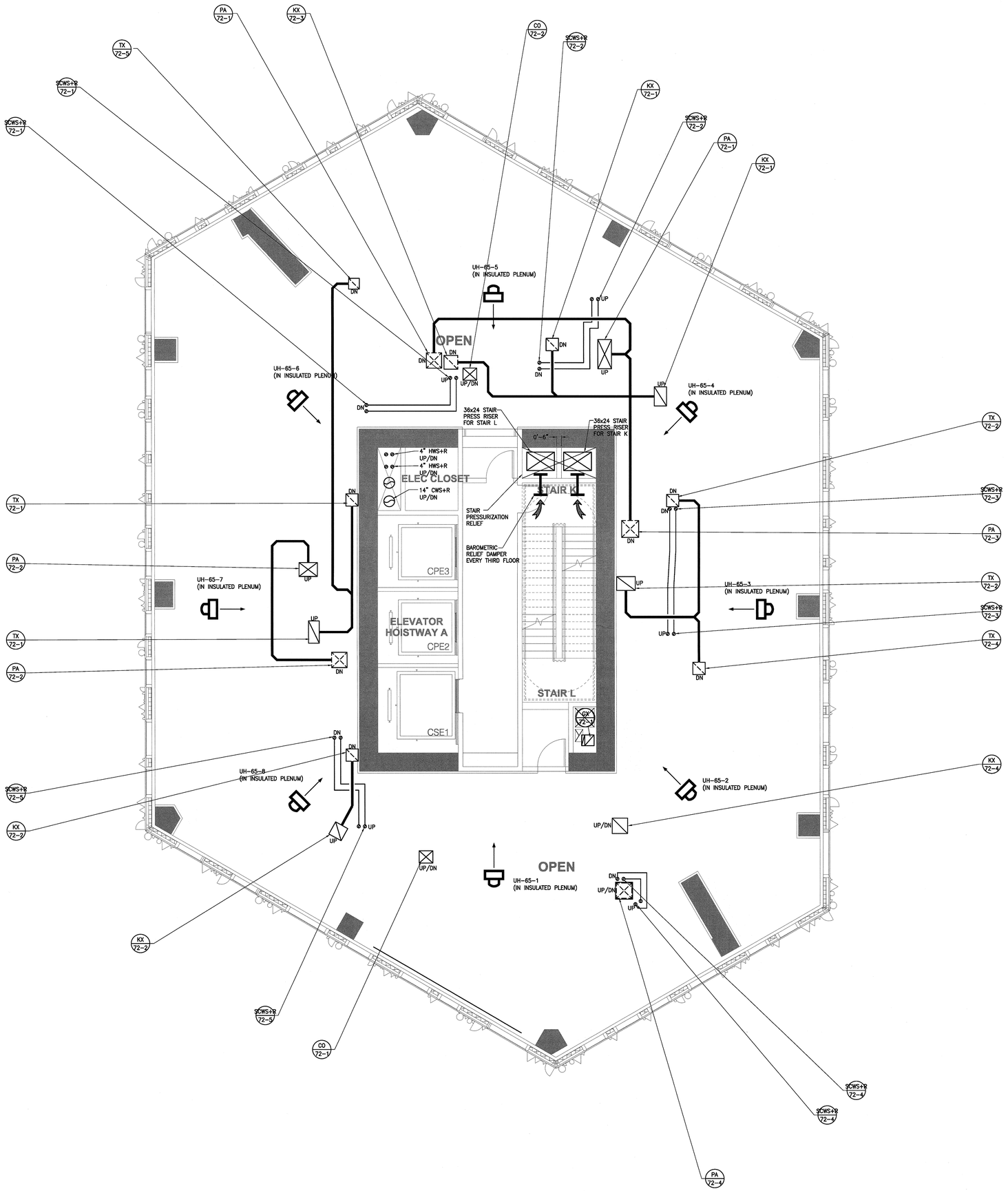
SEAL & SIGNATURE

STATE OF NEW YORK LICENSED ARCHITECT 087119

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338
DRAWING NUMBER	M-161.00

14 JULY, 2016

DEPT OF BLDGS 320914338 Job Number
E-Filed 08/08/2016 Scan Date



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DEVELOPER
JDS DEVELOPMENT GROUP
124 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.625.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.888.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
50 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212-530-5000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.667.9598

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GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10018
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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
150 SINGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3940

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
150 BROADWAY SUITE 609
NEW YORK, NY 10038
tel 646.666.0646

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768-6540

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237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.319.6400

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BMU ENGINEER
ENTEK ENGINEERING
198 AVES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.211.7090

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VIDARIS
360 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
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BURO HAPPOLD
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NEW YORK, NY 10005
tel 212.334.2005

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WHITE PLAINS, NY 10604
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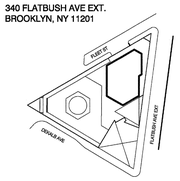

SITE DIAGRAM

07/15/16 DOB FILING SET
04/01/16 FO & BOE DOB FILING SET

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DRAWING TITLE

HVAC FLOOR PLAN-
LEVEL 65
MECH./WINDBREAK

SEAL & SIGNATURE

STATE OF NEW YORK
JOSEPH LIBERTUCCI
LICENSED PROFESSIONAL ENGINEER
087114

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

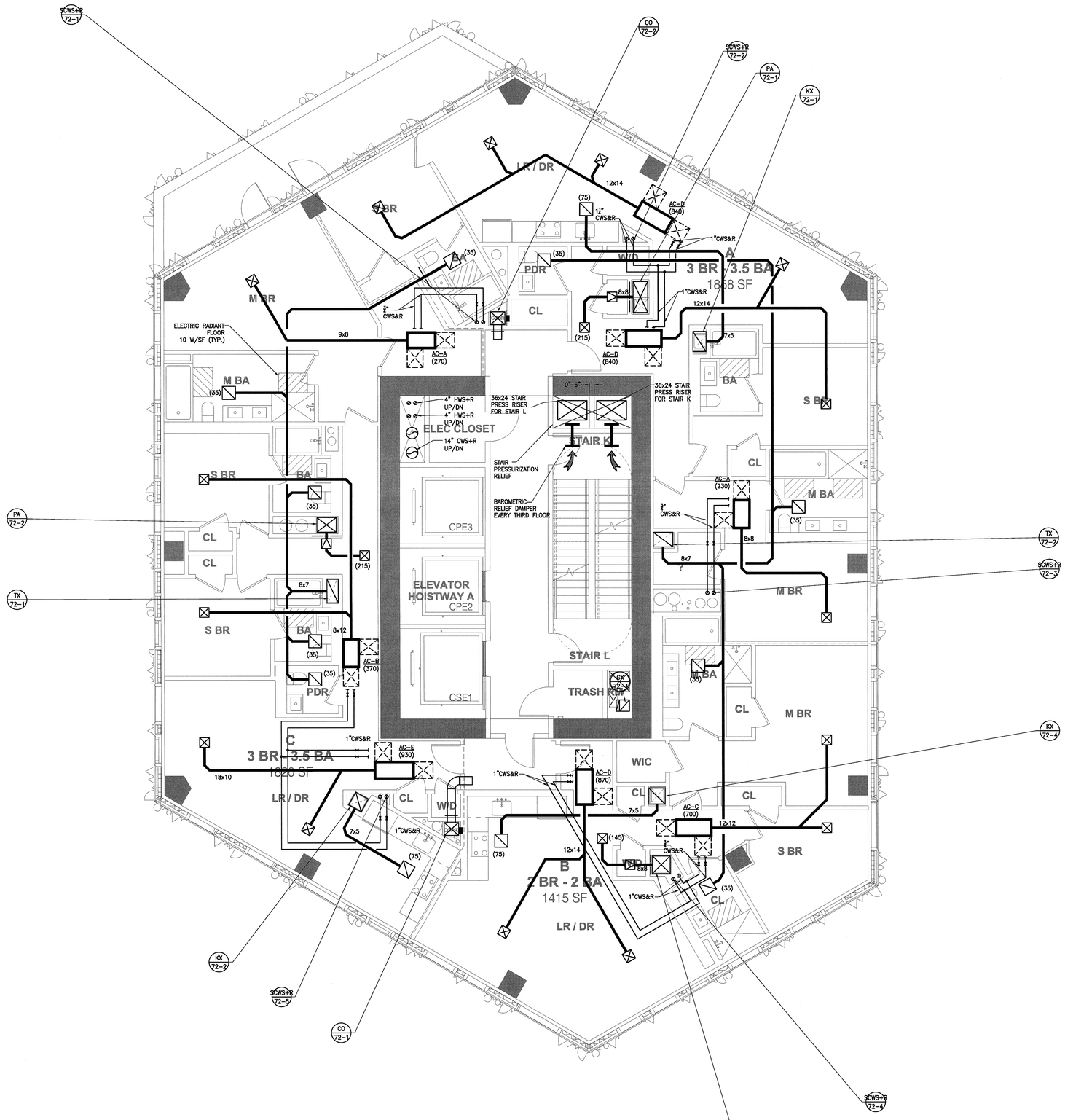
DRAWING NUMBER

M-165.00

14 JULY, 2016

DEPT OF BLDGS 320914338 Job Number

ES1249842095 Scan Code



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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.605.3840

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.697.9696

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GEOTECHNICAL ENGINEER
MRCE
229 WEST 54TH STREET 6TH FLOOR
NEW YORK, NY 10183
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9626

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 DAGLE ROCK SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
164 BROADWAY SUITE 509
NEW YORK, NY 10013
tel 646.666.0946

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.768.8540

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NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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SIMPSON GUMPERTZ & HEGER

BMU ENGINEER
ENTEK ENGINEERING
168 AKES STREET
MADISON, NJ 07901
tel 201.820.2802

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 16TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BURO HAPPOLD ENGINEERING

BUILDING ENERGY
VIDARIS
369 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10013
tel 212.889.5389

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100 BROADWAY
NEW YORK, NY 10005
tel 212.304.2005

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tel 914.485.4300

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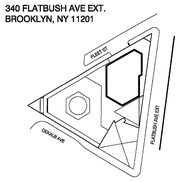

SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
04/21/16	PC & BOE DOB FILING SET			

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DRAWING TITLE

HVAC
FLOOR PLAN- LEVEL 66
(TYP. 66-69)

SEAL & SIGNATURE

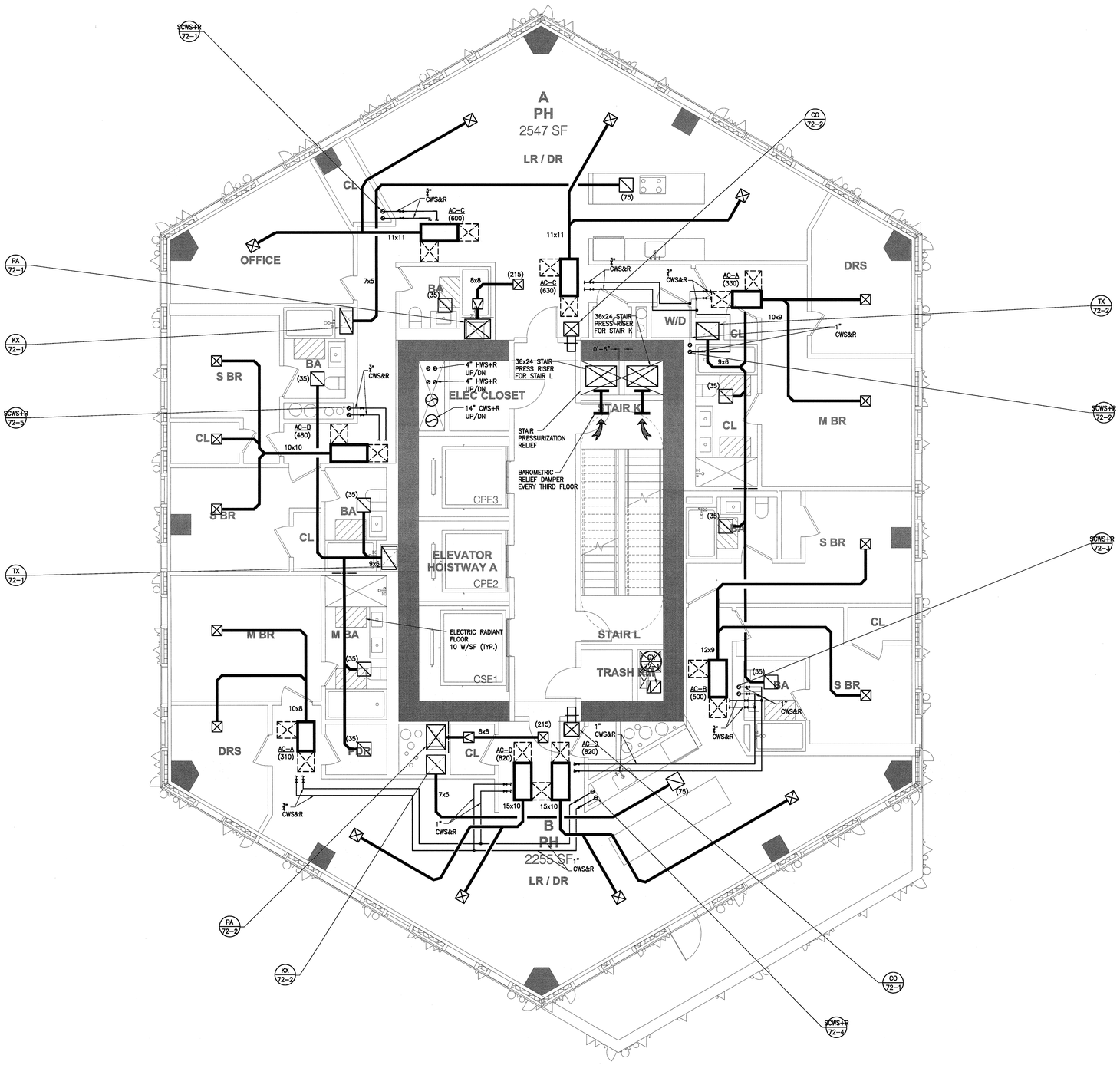
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

DRAWING NUMBER

M-166.00

14 JULY, 2016

DEPT OF BLDGS 320914338 Job Number
E-SIG #3634660 Scan Code



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SCALE: 1/4" = 1'-0"

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10001
tel 646.805.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES
MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9500

WSP CANTOR SEINUK STRUCTURAL ENGINEERS
STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.667.9988

Mueser Rutledge Consulting Engineers
GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 8TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9626

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.805.3940

Thornton Tomasetti
FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0646

JHPA JAN HIRD POKORNY ASSOCIATES
HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6040

BOLD
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BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey
ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 606
NEW YORK, NY 10018
tel 212.315.6460

ENTEK ENGINEERING LLC CONSULTING ENGINEERS
BMU ENGINEER
ENTEK ENGINEERING
196 AVES STREET
WOODBRIDGE, NJ 07601
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER
DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS
BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.9369

BURO HAPPOLD ENGINEERING
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lothrop TRACE POOL DESIGN
POOL
TRACE POOL DESIGN
320 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4290

9 DEKALB AVE

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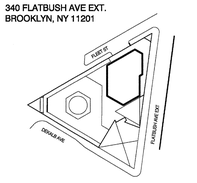
BROOKLYN, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
04/21/16	PC & SOE DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

HVAC
FLOOR PLAN- LEVEL 70
(TYP. 70-71)

SEAL & SIGNATURE

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

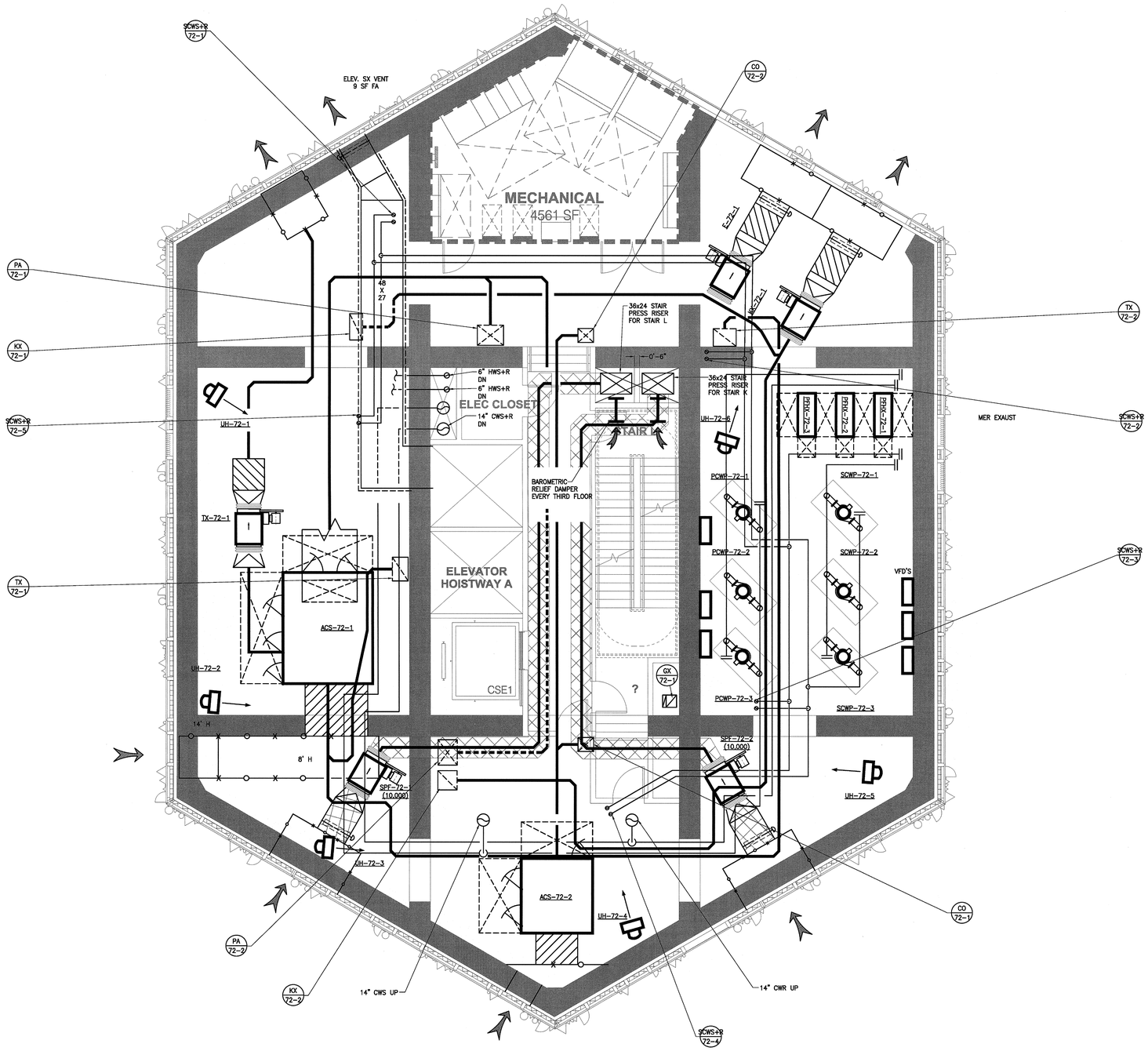
DRAWING NUMBER

M-170.00

14 JULY 2016

DEPT OF BLDGS 320914338 Job Number

ESU-MEP-70358 Scan Code



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SCALE: 1/4" = 1'-0"

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.805.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.509.5005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.520.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10036
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
225 WEST 34TH STREET 9TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9626

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.885.0646

JHPA JAN HIRD POHORYNY ASSOCIATES

HISTORIC PRESERVATION
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39 WEST 37TH ST., FLOOR 13A
NEW YORK, NY 10018
tel 212.768.6040

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LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6900

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINEERING
186 HAIS STREET
HACKENSACK, NJ 07601
tel 201.820.2902

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10019
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 10TH FLOOR
NEW YORK, NY 10010
tel 212.689.5388

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NEW YORK, NY 10005
tel 212.334.0105

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tel 914.485.4090

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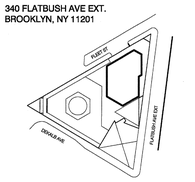
340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
04/01/16	PD & BOE DOB FILING SET			

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DRAWING TITLE

HVAC FLOOR PLAN-
LEVEL 72
MECHANICAL

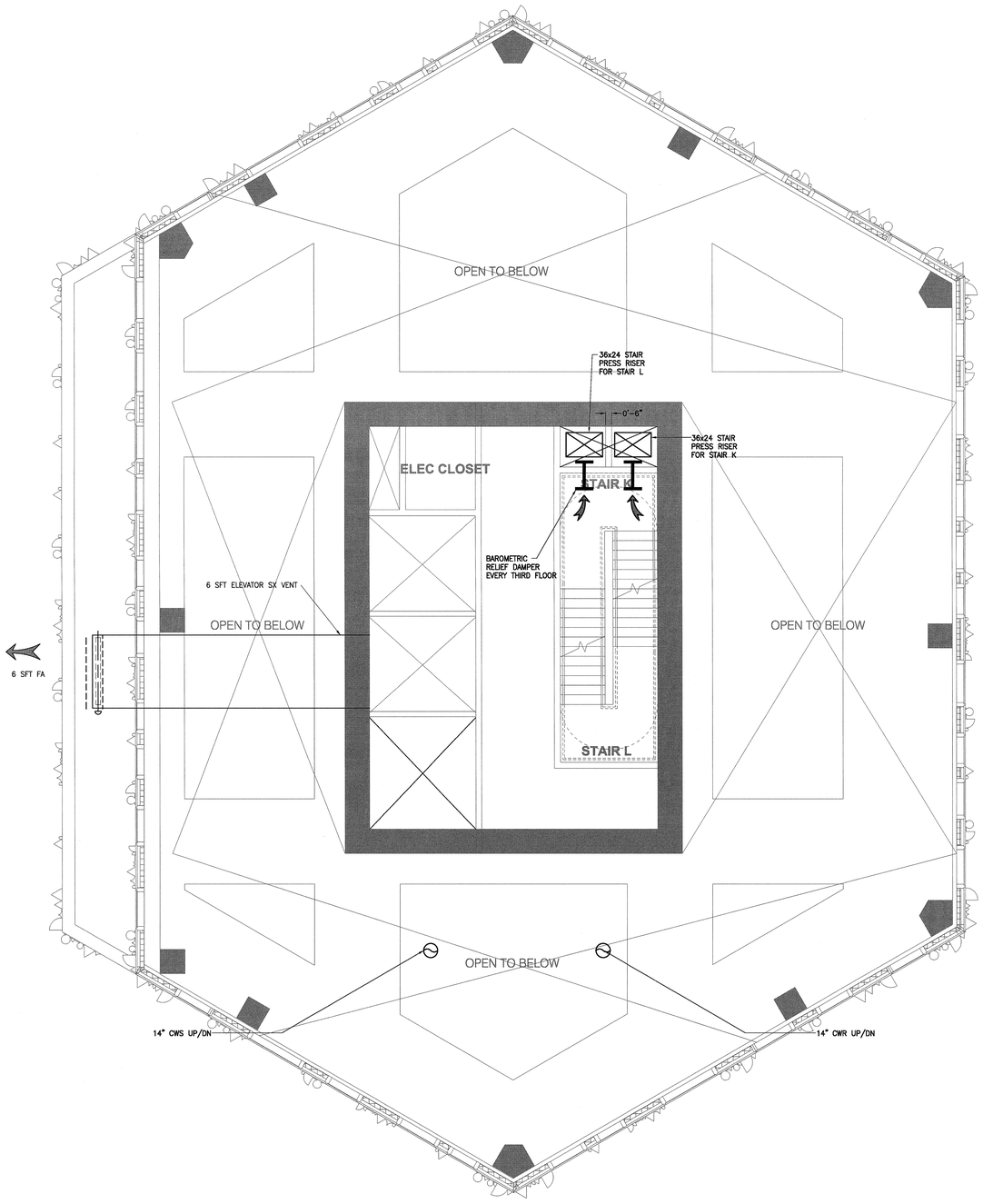
SEAL & SIGNATURE

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338
DRAWING NUMBER	M-172.00

14 JULY 2016

DEPT OF BLDGS 320914338 Job Number

E3492508927S Scan Code



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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.825.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
250 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212-320-5000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.697.3998

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
130 SINGLE RIDGE AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
39H BROADWAY SUITE 928
NEW YORK, NY 10018
tel 646.665.0946

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.758-9340

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LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
195 HWES STREET
HACKENSACK, NJ 07601
tel 201.820.2882

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.686.5380

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FIRE SAFETY ENGINEER
BURO HAPPOLD
120 BROADWAY
NEW YORK, NY 10005
tel 212.334.3005

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333 WESTCHESTER AVENUE
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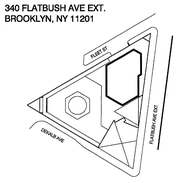

SITE DIAGRAM

07/15/16 DOB FILING SET
04/01/16 PC & BOE DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

HVAC FLOOR PLAN-
LEVEL 72 + 16'

SEAL & SIGNATURE

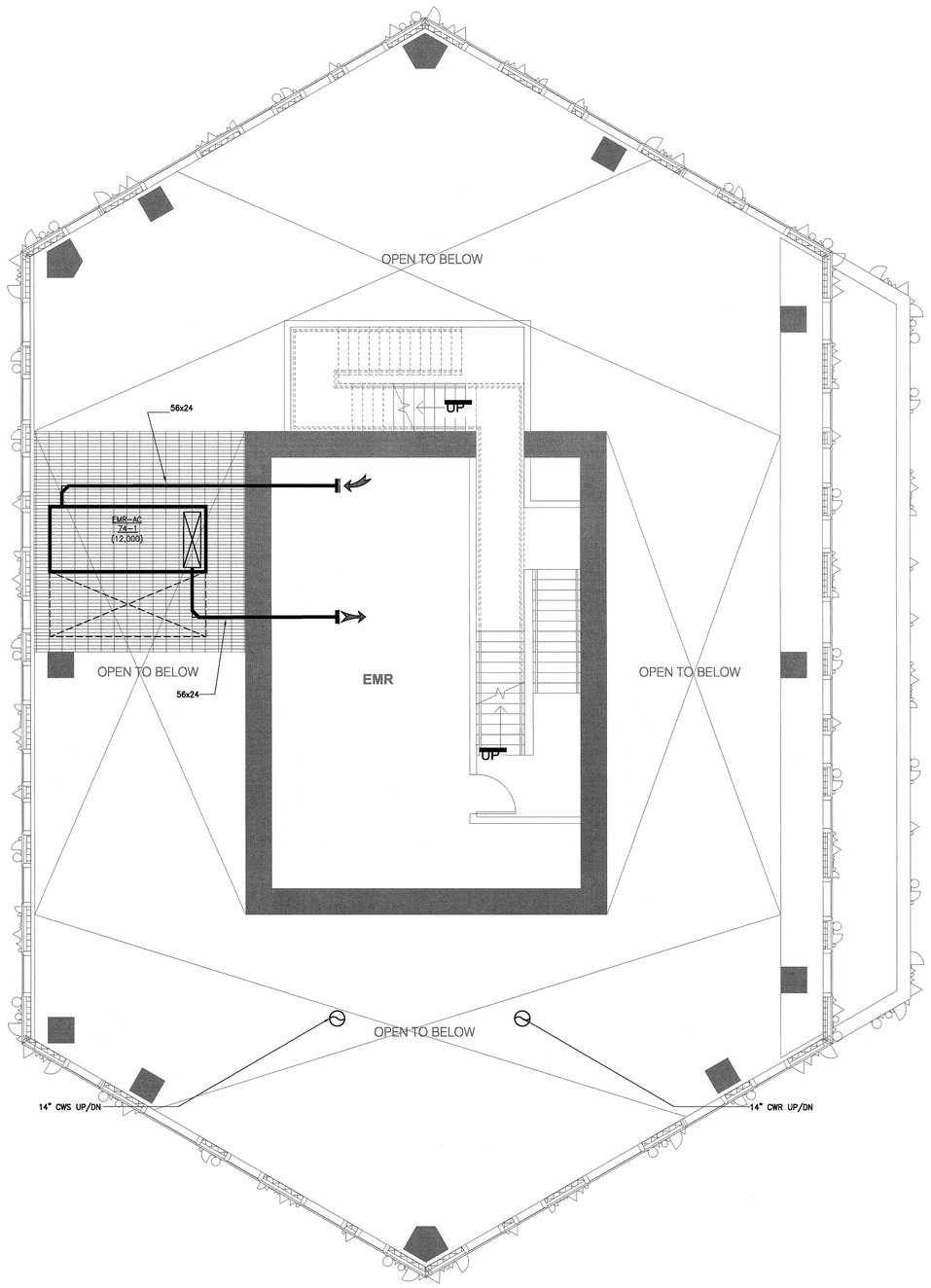
STATE OF NEW YORK JAMES LEATHERS 027114 LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338
DRAWING NUMBER	M-173.00

14 JULY 2016

DEPT OF BLDGS 320143338 Job Number

ES491169700 Scan Code



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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.825.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
203 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.6005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.687.8888

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GEOTECHNICAL ENGINEER
MRCE
229 WEST 24TH STREET 6TH FLOOR
NEW YORK, NY 10120
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10013
tel 646.660.5946

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6540

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NEW YORK, NY 10001
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NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
168 AMES STREET
HACKENSACK, NJ 07601
tel 201.800.0800

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NEW YORK, NY 10018
tel 212.277.7000

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tel 212.334.3325

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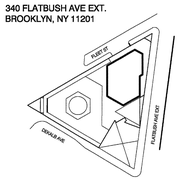
WHITE PLAINS, NY 10604
tel 914.455.4280

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
04/01/16	PC & SOE DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

HVAC FLOOR PLAN-
LEVEL 72 + 32'

SEAL & SIGNATURE

STATE OF NEW YORK — JOSEPH LOMBARDO — 087114 — LICENSED PROFESSIONAL ENGINEER

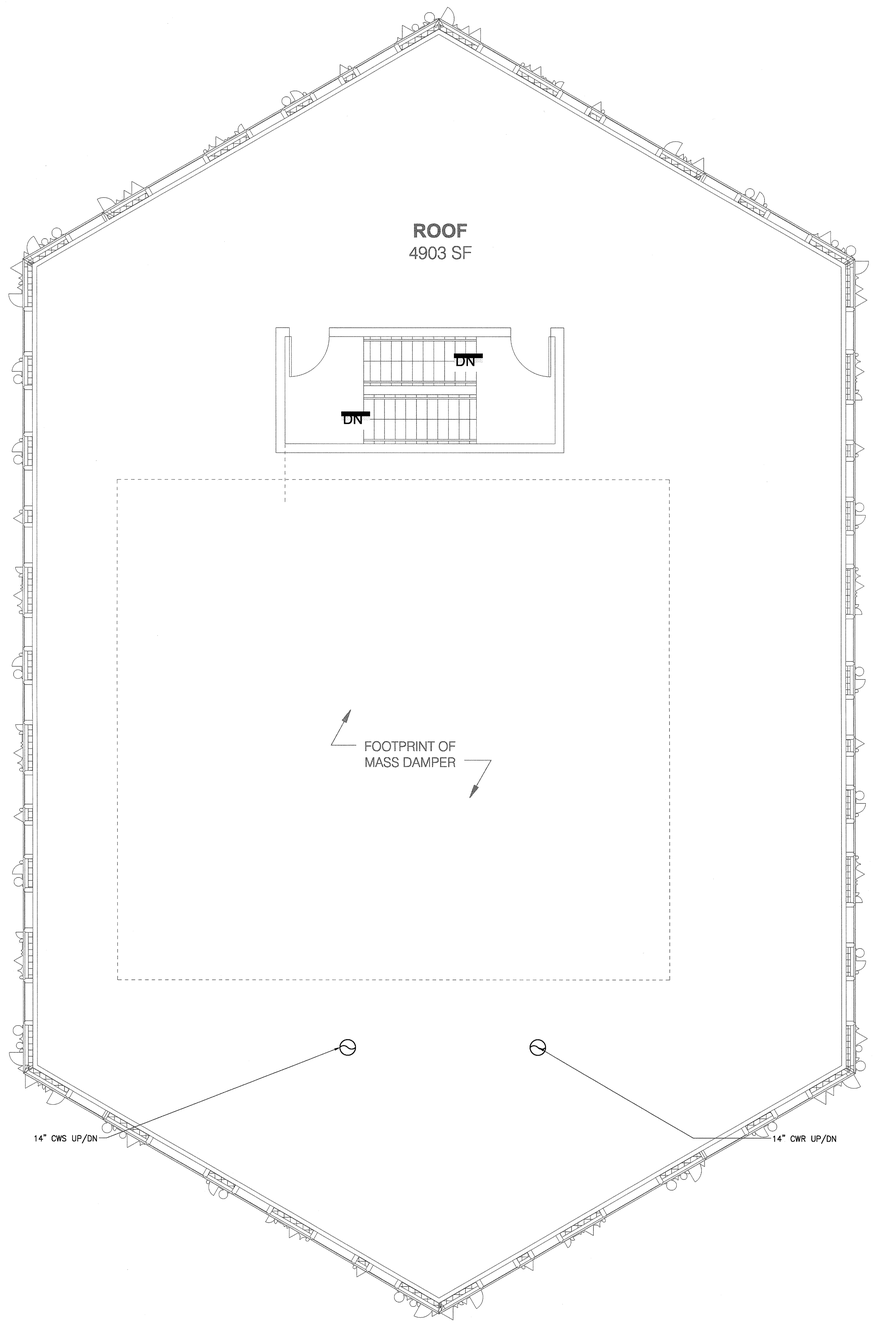
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

DRAWING NUMBER

M-174.00

14.AUG.2016

DEPT OF BLDGS 320914338 Job Number
E311151137 Scan Code



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JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.669.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 718.630.8300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.667.9898

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10032
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
150 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3940

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7900

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INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.666.0646

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
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1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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198 AMES STREET
MADISONGADA, NJ 07901
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7000

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NEW YORK, NY 10010
tel 212.689.5388

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NEW YORK, NY 10005
tel 212.334.3335

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WHITE PLAINS, NY 10604
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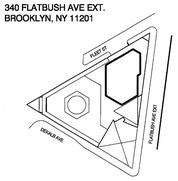
BROOKLYN, NY 11201



SITE DIAGRAM

07/15/15 DOB FILING SET

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DRAWING TITLE

HVAC FLOOR PLAN- ROOF

SEAL & SIGNATURE

STATE OF NEW YORK — JOSEPH A. LOMBARDO — 087113 — LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

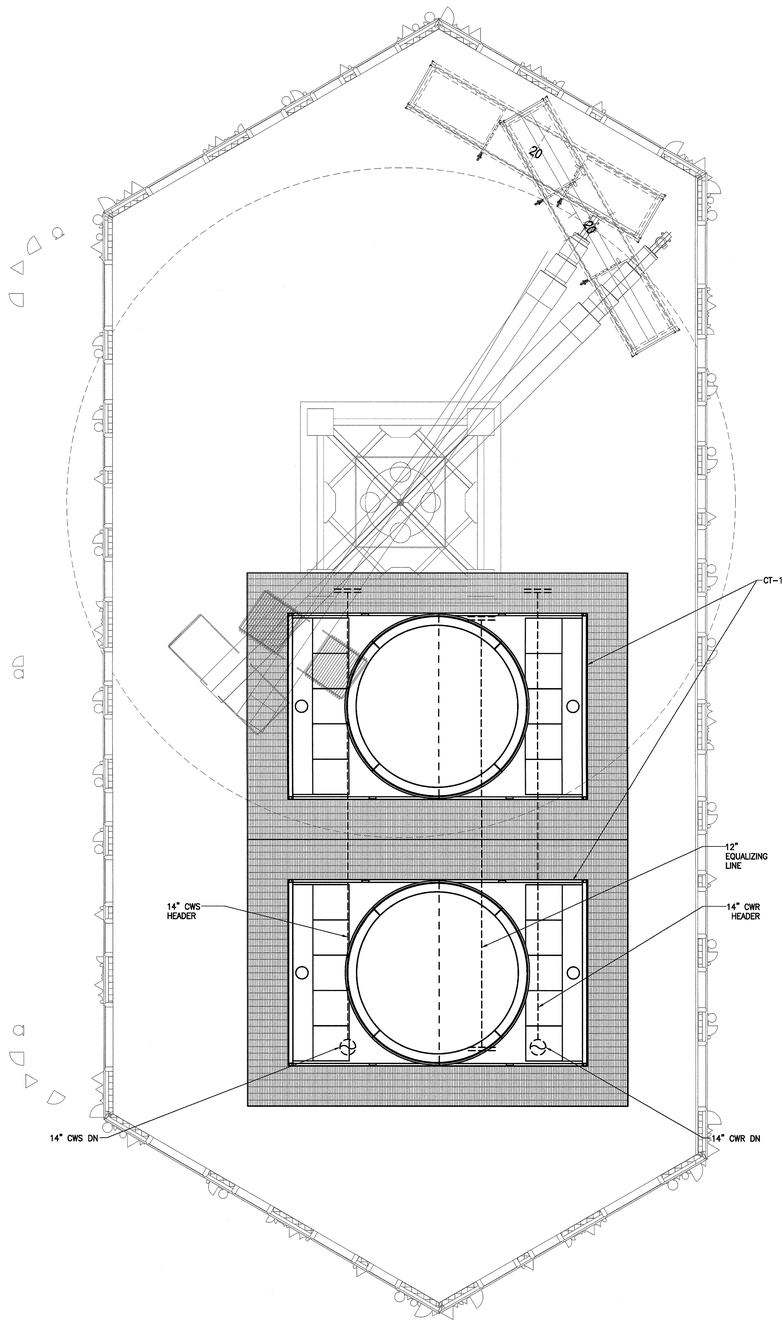
DRAWING NUMBER

M-175.00

14 JULY 2016

DEPT OF BUILDINGS 320914338 Job Number

X 5150058491 Scan Code



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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.825.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.6005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.697.9668

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
220 WEST 26TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7900

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.885.0846

JHPA

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768.6940

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 1506
NEW YORK, NY 10018
tel 212.315.6460

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
198 AVIS STREET
HACKENSACK, NJ 07601
tel 201.820.2902

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.211.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.668.0369

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2005

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330 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4290

9 DEKALB AVE

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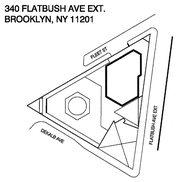
BROOKLYN, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET
04/21/16 FO & SOE DOB FILING SET

DATE ISSUE NO. DATE REVISION

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DRAWING TITLE

HVAC FLOOR PLAN- ROOF + 48'

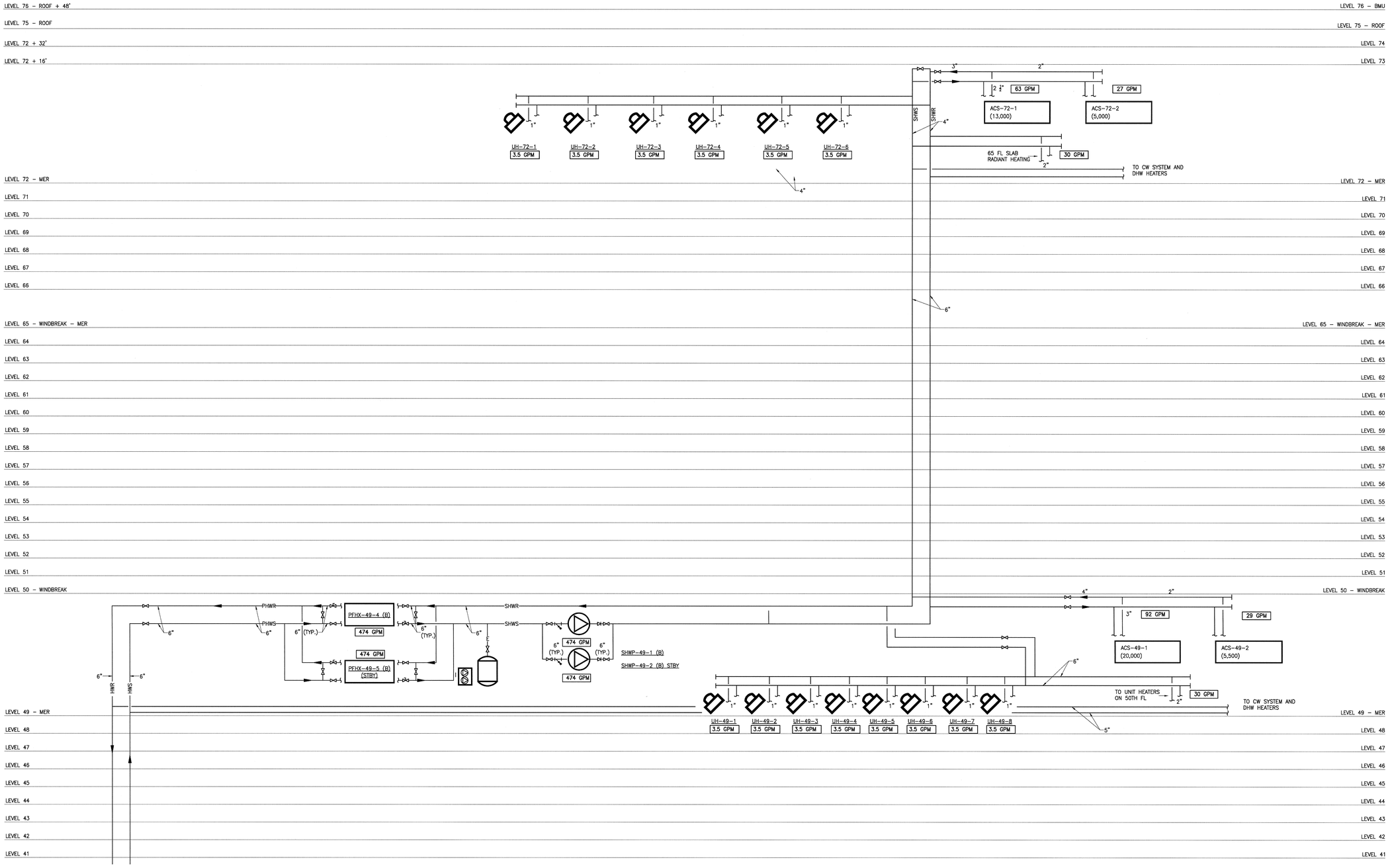
SEAL & SIGNATURE

STATE OF NEW YORK JOSEPH LEVINSON 087114 LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338
DRAWING NUMBER	M-176.00

11 JULY, 2016

DEPT OF BUILDINGS 320914338 Job Number
E395152169955 Scan Code



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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.625.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.868.9005

JBB JAROS, BAUM & BOLLES

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.5500

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 45TH STREET
NEW YORK, NY 10017
tel 212.697.9666

Mueser Rutledge Consulting Engineers

AKRF

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10032
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

vda

Thornton Tomasetti

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
130 SKOLE ROCK AVE,SUITE 310
EAST HAVEN, NJ 07936
tel 646.625.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7500

GACHOT

JHPA JAN HIRD POKORNY ASSOCIATES

INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.600.0646

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768-6540

BOLD

Longman Lindsey

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 608
NEW YORK, NY 10018
tel 212.319.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

SIMPSON GUMPERTZ & HEGER

BMU ENGINEER
ENTEK ENGINNERING
168 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2800

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
950 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.371.7000

VIDARIS

BURO HAPPOLD ENGINEERING

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10016
tel 212.668.5380

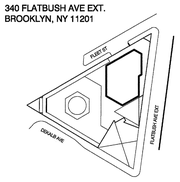
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

LOUTOOD TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.490.4290

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



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07/15/16	DOB FILING SET			
04/01/16	PC & BOE DOB FILING SET			

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DRAWING TITLE

HOT WATER FLOW DIAGRAM #1

SEAL & SIGNATURE

STATE OF NEW YORK — JOSEPH LICATA — 029455 — LICENSED PROFESSIONAL ENGINEER

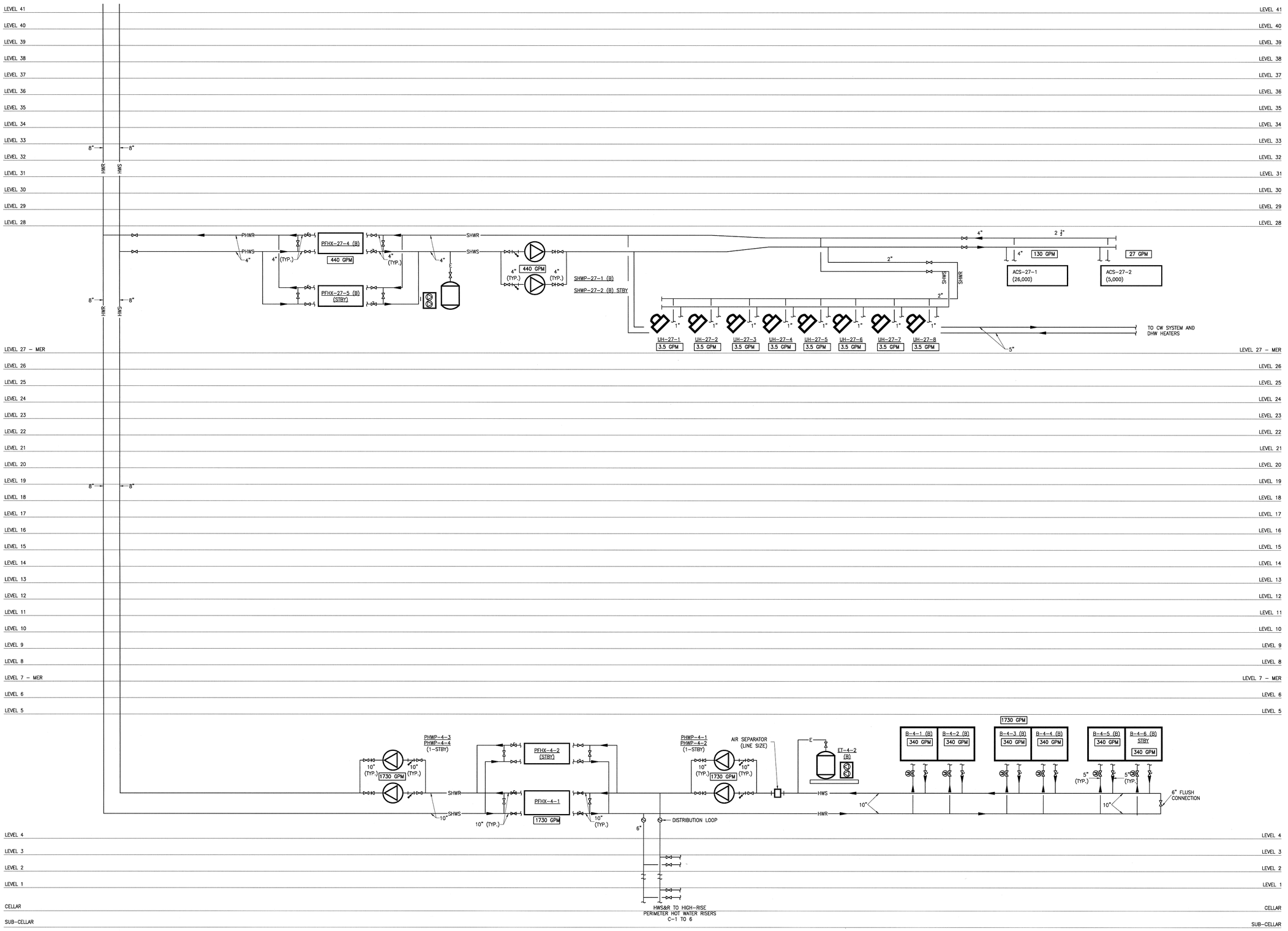
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

DRAWING NUMBER

M-400.00

14-JULY-2016

DEPT OF BLDGS 320914338 Job Number
E-525252006955 Scan Code



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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
M 646.625.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
M 212.889.9005

JBB JAROS BAUM & BOLLES

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
M 212.530.8000

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 40TH STREET
NEW YORK, NY 10017
M 212.697.9668

Mueser Rutledge Consulting Engineers

AKRF

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 8TH FLOOR
NEW YORK, NY 10018
M 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
M 646.388.9928

vda

Thornton Tomasetti

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
150 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
M 646.625.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #10
NEW YORK, NY 10010
M 917.661.7800

GACHOT

JHPA JAN HIRD POKORNY ASSOCIATES

INTERIORS
GACHOT
39H BROADWAY SUITE 909
NEW YORK, NY 10010
M 646.666.0646

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
M 212.768.6540

BOLD

Longman Lindsey

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
M 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 906
NEW YORK, NY 10018
M 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

SIMPSON GUMPERTZ & HEGER

BMU ENGINEER
ENTEK ENGINEERING
188 AMES STREET
HADDONFIELD, NJ 07601
M 201.820.2802

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
950 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10019
M 212.211.7000

VIDARIS

BURO HAPPOLD ENGINEERING

BUILDING ENERGY
VIDARIS
260 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
M 212.668.0388

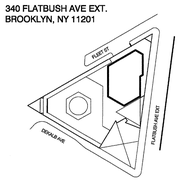
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
M 212.334.2225

LOPEZ TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
M 914.465.4090

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



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04/21/16	PC & SOE DOB FILING SET			

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DRAWING TITLE

HOT WATER FLOW DIAGRAM #2

SEAL & SIGNATURE

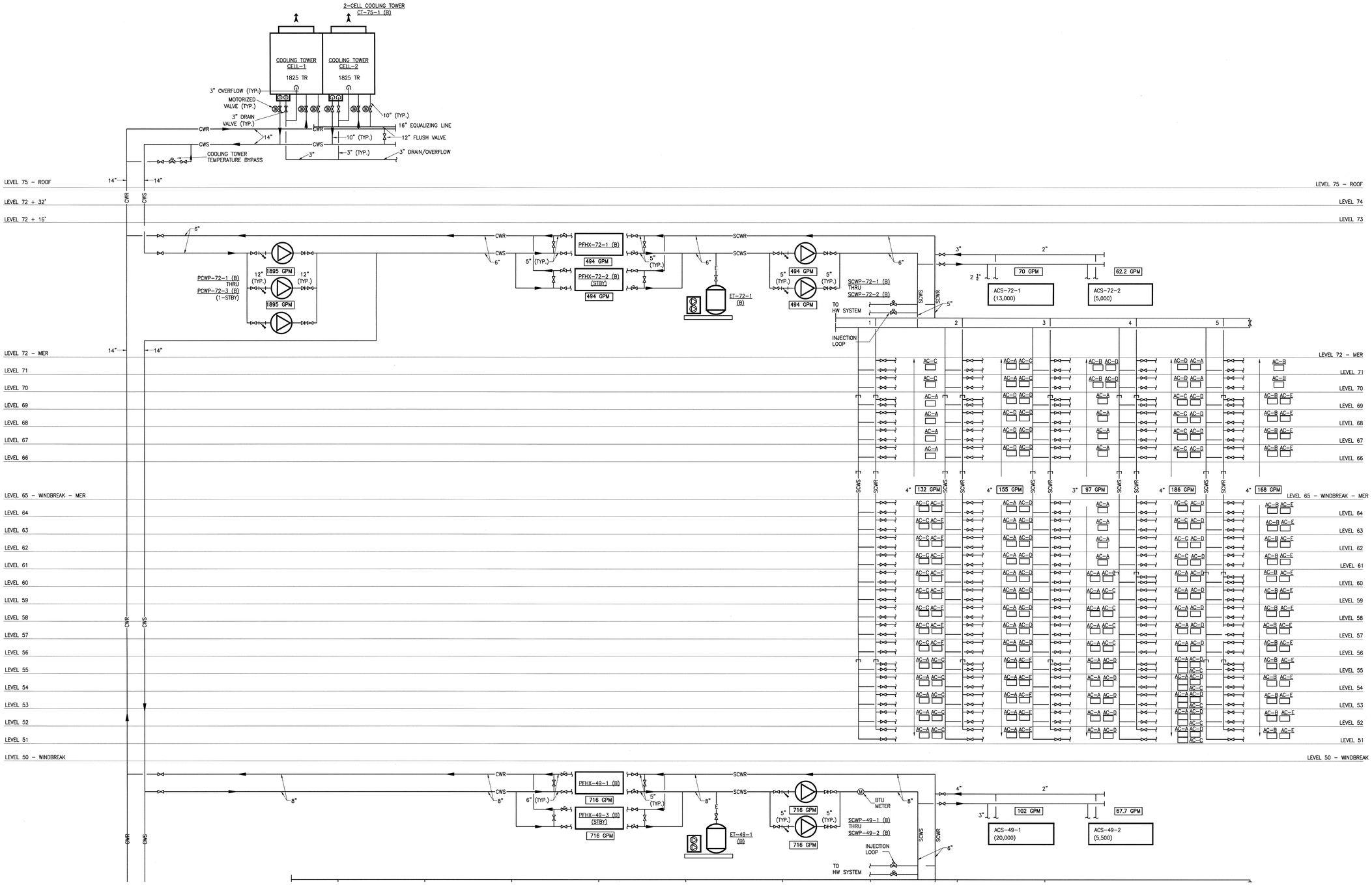
STATE OF NEW YORK · JEFFREY A. LEVINE · 028711 · LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	1.40429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

DRAWING NUMBER
M-401.00

14 JULY, 2016

DEPT OF BLDGS 320914338 Job Number
ES4W1630001 Scan Code



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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 6TH FLR
NEW YORK, NY 10011
tel 646.805.3940

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.888.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.887.9888

GEOTECHNICAL ENGINEER
MRCE
232 WEST 26TH STREET 8TH FLOOR
NEW YORK, NY 10012
tel 917.359.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7500

INTERIORS
GACHOT
594 BROADWAY SUITE 209
NEW YORK, NY 10012
tel 646.895.0946

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768.6540

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
141 D BROADWAY, SUITE 108
NEW YORK, NY 10018
tel 212.315.6400

BMU ENGINEER
ENTEK ENGINEERING
188 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2600

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.211.7000

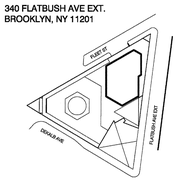
BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.668.6388

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.0045

POOL
TRACE POOL DESIGN
330 WEST CHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4295

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET
04/21/16 FO & SOE DOB FILING SET

DATE:	ISSUE:	NO.	DATE:	REVISION:

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DRAWING TITLE

CONDENSER WATER FLOW DIAGRAM #1

SEAL & SIGNATURE

STATE OF NEW YORK — DANIEL J. ALTHOFF — 082114 — LICENSED PROFESSIONAL ENGINEER

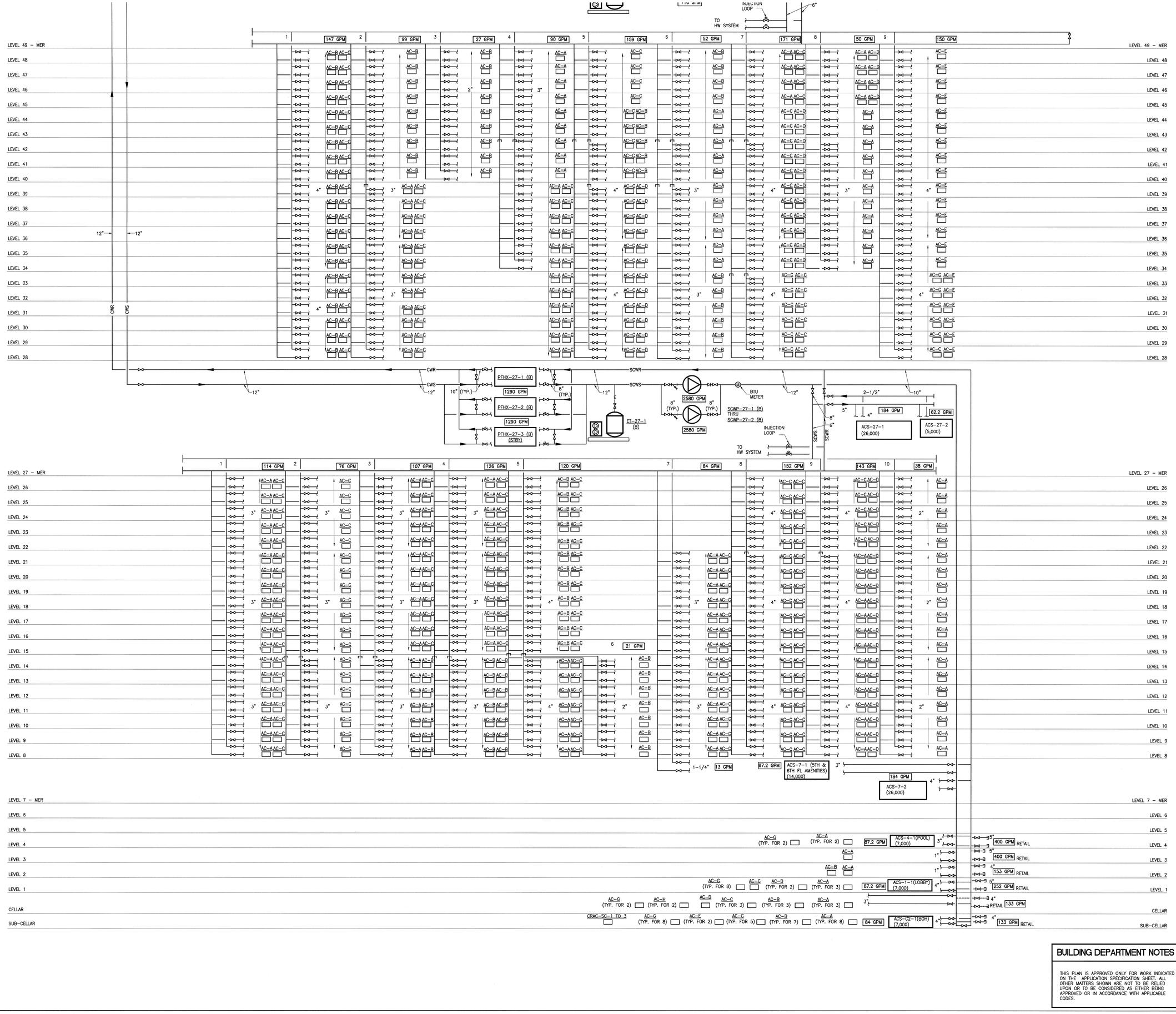
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

DRAWING NUMBER

M-402.00

14 JULY 2016

DEPT OF BLDGS 320914338 Job Number
E385059700 Scan Code



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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
M 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
M 212.889.9005

JBB JAROS BAUM & BOLLES

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
M 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
M 212.697.3598

Munroe Rutledge Consulting Engineers

AKRF

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
M 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
M 646.388.9529

vda

Thornton Tomasetti

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
M 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
M 917.661.7500

GACHOT

JHPA JAN HIRD POKORNY ASSOCIATES

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
M 646.666.5946

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
M 212.768.6540

BOLD

Longman Lindsey

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
M 212.874.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 1506
NEW YORK, NY 10018
M 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

SIMPSON GUMPERTZ & HEGER

BMU ENGINEER
ENTEK ENGINEERING
166 AVES STREET
HAZENSACK, NJ 07601
M 201.820.2002

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
580 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
M 212.271.7000

VIDARIS

BUROHAPPOLD ENGINEERING

BUILDING ENERGY
VIDARIS
200 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
M 212.989.5389

LOREN COS. ENVIRONMENTAL

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
M 212.334.0555

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
M 914.485.4280

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201

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07/15/16	DOB FILING SET			
04/01/16	PD & SOE DOB FILING SET			

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DRAWING TITLE

CONDENSER WATER FLOW DIAGRAM #2

SEAL & SIGNATURE

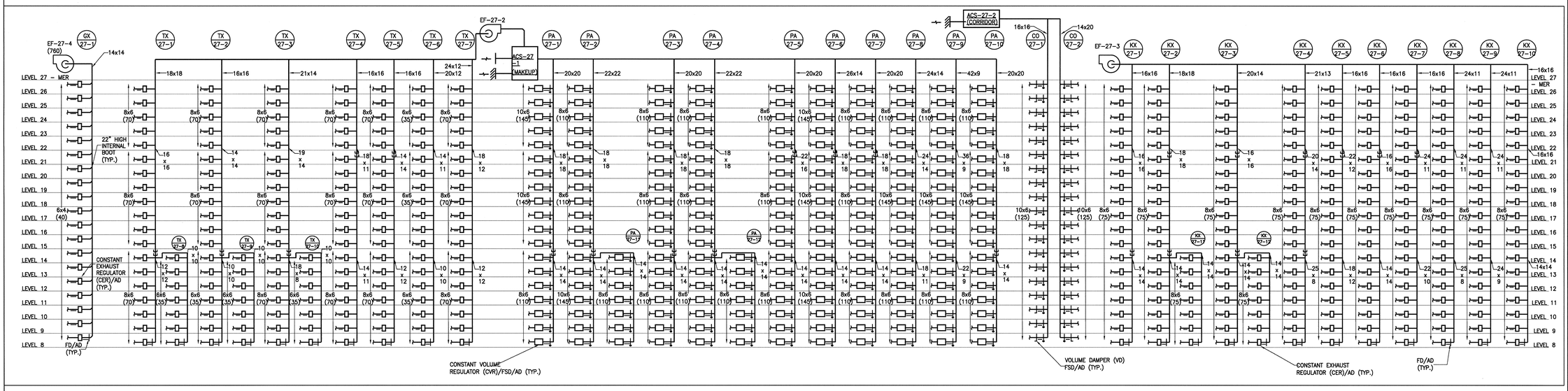
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

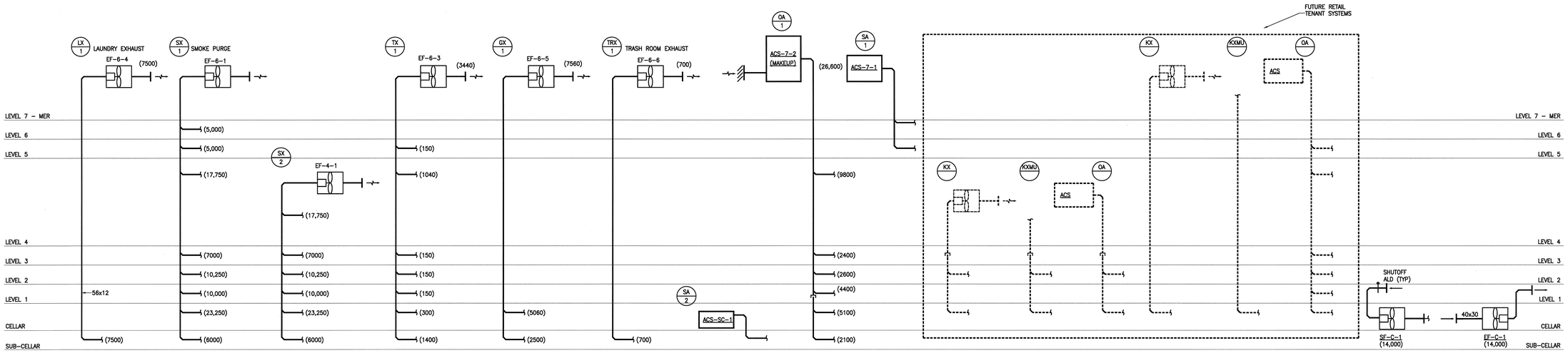
DRAWING NUMBER
M-403.00

14 JULY 2016

DEPT OF BUILDINGS 320914338 Job Number

ESCMS1297319 Scan Code





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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 6TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.6000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 14TH STREET
NEW YORK, NY 10017
tel 212.807.8888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 4TH FLOOR
NEW YORK, NY 10122
tel 917.339.9900

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9629

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #10
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0646

JHPA JAN HIRD POHORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POHORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-9540

BOLD

LIGHTING
BOLD
207 WEST 25TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 504
NEW YORK, NY 10018
tel 212.315-8400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
950 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.599.5599

BUROHAPPOLD ENGINEERING

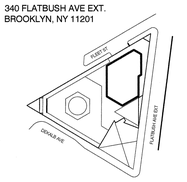
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

LOTHROP TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4295

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



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DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
04/01/16	PC & SOE DOB FILING SET			

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DRAWING TITLE

HVAC AIR FLOW DIAGRAM #1

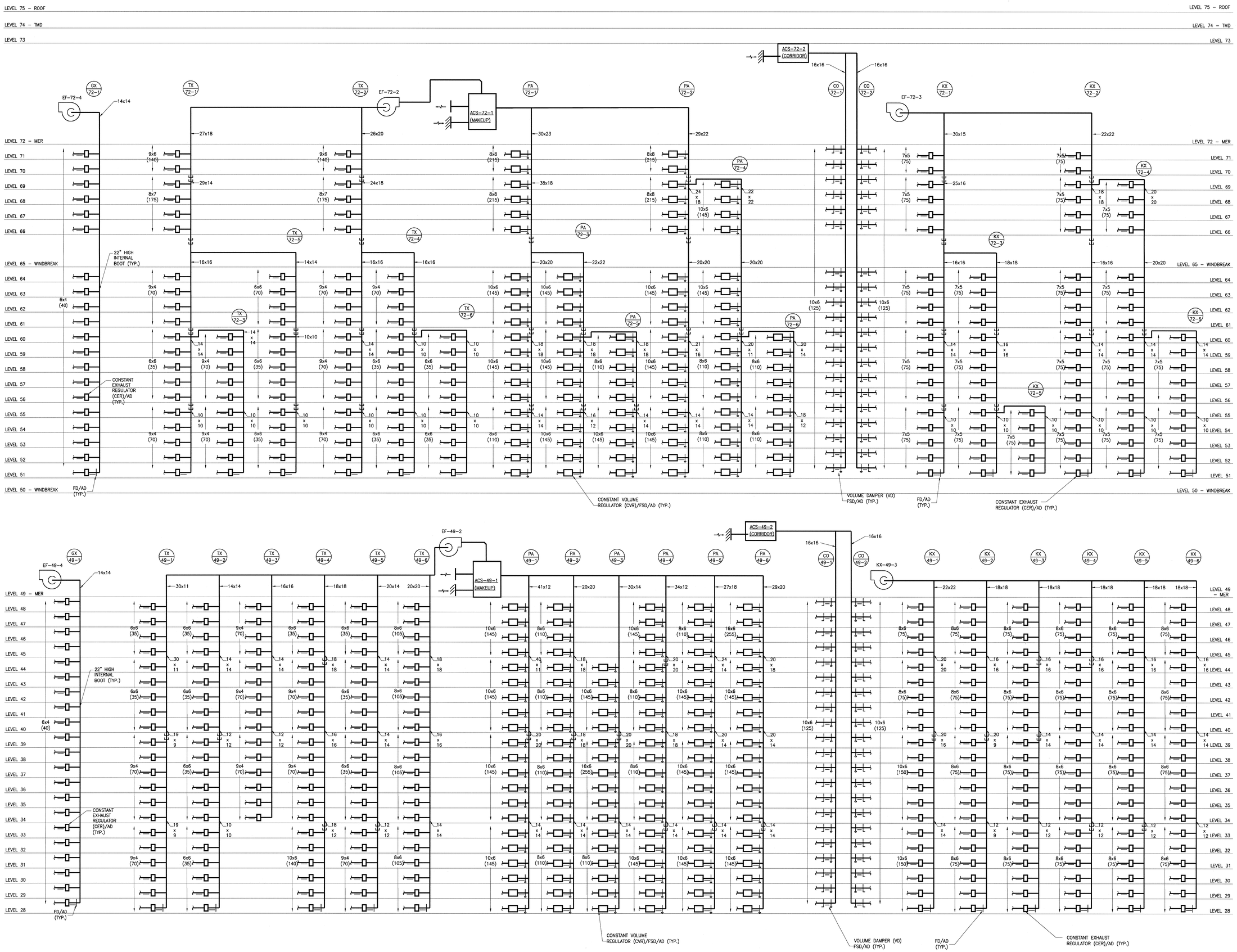
SEAL & SIGNATURE

STATE OF NEW YORK — REGISTERED PROFESSIONAL ENGINEER — 087114

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338
DRAWING NUMBER	M-404.00

14 JULY 2016

DEPT OF BUILDINGS 320914338 Job Number
B3850620976 Scan Code



BUILDING DEPARTMENT NOTES

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
124 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10001
M 646.825.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
M 212.889.9005

JBB JAROS BAUM & BOLLES
MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
M 212.530.9500

WSP CANTOR SEINUK STRUCTURAL ENGINEERS
STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 46TH STREET
NEW YORK, NY 10017
M 212.687.9888

Mueser Rutledge Consulting Engineers
GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 8TH FLOOR
NEW YORK, NY 10018
M 917.339.9300

AKRF
CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
M 646.388.9928

vda
VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
150 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
M 646.825.3940

Thornton Tomasetti
FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
M 917.661.7800

GACHOT
INTERIORS
GACHOT
69H SPRING ST SUITE 509
NEW YORK, NY 10012
M 646.666.0946

JHPA JAN HIRD POKORNY ASSOCIATES
HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
M 212.768.6540

BOLD
LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
M 212.674.6500

Longman Lindsey
ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
M 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS
BMU ENGINEER
ENTEK ENGINEERING
198 AVES STREET
HACKENSACK, NJ 07601
M 201.820.2602

SIMPSON GUMPERTZ & HEGER
DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
M 212.211.7000

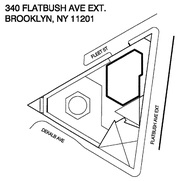
VIDARIS
BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10016
M 212.689.5388

BUROHAPPOLD ENGINEERING
FIRE SAFETY ENGINEER
BURO HAPPOLD
120 BROADWAY
NEW YORK, NY 10005
M 212.334.2020

LOTRISC TRACE POOL DESIGN
POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
M 914.485.4350

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
04/01/16	PD & BOE DOB FILING SET			

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DRAWING TITLE

HVAC AIR FLOW DIAGRAM #2

SEAL & SIGNATURE

STATE OF NEW YORK — 087111 — REGISTERED PROFESSIONAL ENGINEER

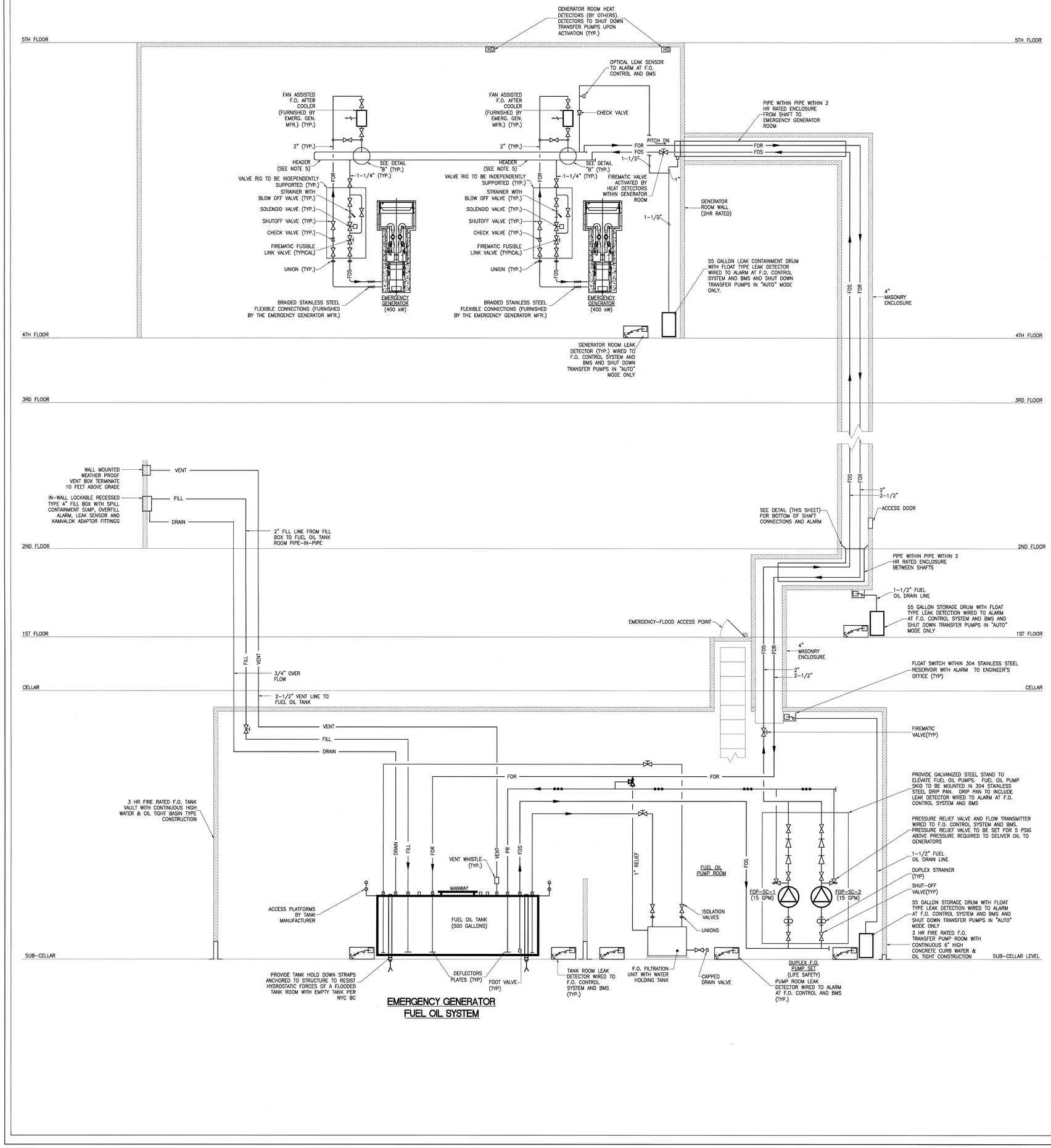
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

DRAWING NUMBER

M-405.00

14 JULY, 2016

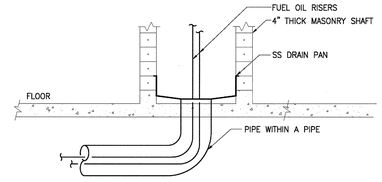
DEPT OF BLDGS 320014338 Job Number
E3187007741 Scan Code



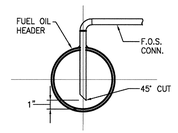
EMERGENCY GENERATOR FUEL OIL SYSTEM

NOTES:

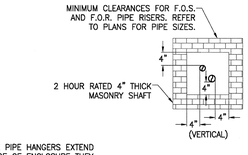
1. ALL F.O. PIPING FROM THE F.O. PUMP ROOM TO THE MASONRY F.O. SHAFTS AND FROM THEIR RESPECTIVE MASONRY SHAFTS TO THE GENERATOR EQUIPMENT ROOMS SHALL BE PIPE-WITHIN-A-PIPE CONSTRUCTION. IN ADDITION, THE PIPING SHALL BE ENCLOSED WITHIN A TWO (2) HOUR FIRE RATED ENCLOSURE.
2. EACH SET OF F.O.S & R RISERS SHALL BE INSTALLED WITHIN A DEDICATED 4" THICK MASONRY RISER SHAFT.
3. ALL FUEL OIL ISOLATION, BALANCING, BRIDGE AND/ OR FIREMATIC VALVES SHALL BE PROVIDED WITH INTEGRAL TAMPER SWITCHES, WIRED TO THE BMS SYSTEM FOR ANNUNCIATION.
4. ALL LEAK DETECTORS SHALL BE OPTICAL TYPE AND SHALL BE CAPABLE OF DISTINGUISHING BETWEEN OIL AND WATER
5. HEIGHT OF FUEL OIL HEADER SHALL BE A MAXIMUM OF 10'-0" ABOVE GENERATOR FUEL OIL RETURN CONNECTION



DRAIN PAN DETAIL AT BASE FUEL OIL SHAFTS
(NOT TO SCALE)



DETAIL 'B'
(NOT TO SCALE)



FUEL OIL PIPE ENCLOSURE DETAIL

BUILDING DEPARTMENT NOTES

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES
WSP CANTOR SEINUK STRUCTURAL ENGINEERS

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.5000

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.687.3686

Mueser Rutledge Consulting Engineers
AKRF

GEOTECHNICAL ENGINEER
MRCE
220 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

vda
Thornton Tomasetti

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
130 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7900

GACHOT
JHPA JAN HIRD POKORNY ASSOCIATES

INTERIORS
GACHOT
304 BROADWAY SUITE 509
NEW YORK, NY 10013
tel 646.688.0046

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 13A
NEW YORK, NY 10018
tel 212.768.8340

BOLD
Longman Lindsey

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BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 306
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC
SIMPSON GUMPERTZ & HEGER

BMU ENGINEER
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198 ANES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS
BUROHAPPOLD ENGINEERING

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10016
tel 212.660.5360

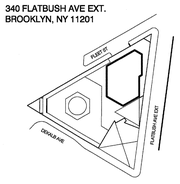
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.3225

Lorenzo TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
330 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4350

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
04/01/16	PD & SOE DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

FUEL OIL
FLOW DIAGRAM

SEAL & SIGNATURE

STATE OF NEW YORK JAMES K. LIMA LICENSED PROFESSIONAL ENGINEER 092114

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

DRAWING NUMBER

M-406.00

14 JULY 2016

DEPT OF BLDGS 320914338 Job Number
E302363451 Scan Code

AIR CONDITIONING SYSTEM (MAMMOTH AS STANDARD)

| ACS SYSTEM No. | LOCATION | SERVICE | TOTAL AIR (CFM) | MINIMUM OUTSIDE AIR (CFM) | PRE-FILTERS: MAX. PRESSURE DROP-CLEAN (IN.H20) | PRE-FILTERS: FILTER TYPE | PRE-FILTERS: % EFFICIENCY | PRE-FILTERS: NUMBER OF SECTIONS-WIDE | PRE-FILTERS: NUMBER OF SECTIONS-HIGH | PRE-FILTERS: MAX. PRESSURE DROP DIRTY (IN-H20) | PRE-HEAT COILS: CFM | PRE-HEAT COILS: AIR-SIDE: ENTERING TEMP. (°F) | PRE-HEAT COILS: AIR-SIDE: LEAVING TEMP. (°F) | PRE-HEAT COILS: AIR-SIDE: MAX. PRESSURE DROP (IN. H20) | PRE-HEAT COILS: WATER SIDE: WATER ΔP | PRE-HEAT COILS: WATER SIDE: ENTERING TEMP. (°F) | PRE-HEAT COILS: WATER SIDE: LEAVING TEMP. (°F) | PRE-HEAT COILS: WATER SIDE: WATER (GPM) | PRE-HEAT COILS: WATER SIDE: NUMBER OF SECTIONS | PRE-HEAT COILS: FINNED LENGTH | PRE-HEAT COILS: TUBE FACE | PRE-HEAT COILS: TOTAL FACE AREA (SQ. FT) | PRE-HEAT COILS: FACE VELOCITY (FPM) | PRE-HEAT COILS: ROW DEEP | PRE-HEAT COILS: FIN SPACING (FIN/IN.) | PRE-HEAT COILS: CIRCUITING | COOLING COILS: CFM | COOLING COILS: AIR SIDE: ENTERING TEMP. DB (°F) | COOLING COILS: AIR SIDE: ENTERING TEMP. WB (73°F) | COOLING COILS: AIR SIDE: LEAVING TEMP. DB (°F) | COOLING COILS: AIR SIDE: LEAVING TEMP. WB (°F) | COOLING COILS: AIR SIDE: MAX. PRESSURE DROP (IN. H20) | COOLING COILS: WATER SIDE: GPM | COOLING COILS: WATER SIDE: ENTERING TEMP. (°F) | COOLING COILS: WATER SIDE: LEAVING TEMP. (°F) | COOLING COILS: WATER SIDE: MAX. PRESSURE DROP. (FT H20) | COOLING COILS: NUMBER OF SECTIONS | COOLING COILS: CASING HEIGHT | COOLING COILS: FINNED HEIGHT PER SECTION | COOLING COILS: TOTAL FACE AREA (SQ. FT) | COOLING COILS: FACE VELOCITY (FPM) | COOLING COILS: ROW DEEP | COOLING COILS: FINS PER IN. | SUPPLY FAN DATA: NUMBER OF FANS | SUPPLY FAN DATA: CFM PER FAN | SUPPLY FAN DATA: STATIC PRESSURE (TOTAL) (IN.H20) | SUPPLY FAN DATA: STATIC PRESSURE (EXTERNAL) (IN.H20) | SUPPLY FAN DATA: MOTOR CONTROL TYPE | SUPPLY FAN DATA: FAN RPM | SUPPLY FAN DATA: DRIVE OUTPUT FREQUENCY | SUPPLY FAN DATA: MAX. OUTLET VELOCITY (FPM) | SUPPLY FAN DATA: ARRANGEMENT | SUPPLY FAN DATA: FAN OPERATING RPM | SUPPLY FAN DATA: WIDTH & INLET | SUPPLY FAN DATA: WHEEL DIAMETER (IN.) | SUPPLY FAN DATA: B.H.P. PER FAN | SUPPLY FAN DATA: MIN. MOTOR H.P. PER FAN | SUPPLY FAN DATA: MOTOR R.P.M. | SUPPLY FAN DATA: MOTOR LOCATION | SUPPLY FAN DATA: VIB. BASE SPEC. TYPE | SUPPLY FAN DATA: VIB. BASE MIN. STATIC DEFL. (IN.) | SUPPLY FAN DATA: CLASS | FINAL FILTERS: MAX. PRESSURE DROP-CLEAN (IN.H20) | FINAL FILTERS: FILTER TYPE | FINAL FILTERS: % EFFICIENCY | FINAL FILTERS: NUMBER OF SECTIONS-WIDE | FINAL FILTERS: NUMBER OF SECTIONS-HIGH | FINAL FILTERS: MAX. PRESSURE DROP DIRTY (IN-H20) | FINAL FILTERS: HEIGHT | FINAL FILTERS: WIDTH | FINAL FILTERS: LENGTH | REMARKS |
|---|---|---

DEPT OF BLDGS 320014338 308 Number
E307073972 Scan Code

RETURN, EXHAUST AND VENTILATION FANS

(COOK AS STANDARD)

FAN No.	LOCATION	SERVICE	CFM	STATIC PRESSURE (IN. H20)	MAX. OUTLET VELOCITY (FPM)	DISCHARGE DIRECTION	ARRANGEMENT	FAN R.P.M.	FAN ROTATION	WIDTH AND INLET	WHEEL DIAMETER (INCHES)	UNIT TYPE	UNIT SIZE	B.H.P.	MIN. MOTOR H.P.	MOTOR R.P.M.	MOTOR LOCATION	VOLTS	PHASE	Hz	VIBRATION BASE SPECIFICATION TYPE	VIBRATION BASE MIN. STATIC DEFLECTION (IN.)	CLASS	REMARKS
E-72-1	72ND FLOOR	MER EXHAUST	8,500	1.5	1547	HORIZ.	9	1322				MIXED FLOW INLINE	225QMX-HP	3.40	7.5	1725		460	3	60				
TX-72-1	72ND FLOOR	TOILET EXHAUST	5,300	1.5	1507	HORIZ.	9	1627				MIXED FLOW INLINE	180QMX-HP	2.10	5	1725		460	3	60				
KX-72-1	72ND FLOOR	KITCHEN EXHAUST	5,000	1.5	1422	HORIZ.	9	1572				MIXED FLOW INLINE	180QMX-HP	1.93	5	1725		460	3	60				
GX-72-4	72ND FLOOR	TRASH EXHAUST	760	1.5	–	HORIZ.	–	1632				CENTRFGL SQUARE INLINE	150SQN-HP	0.39	0.5	1725		460	3	60				
SPF-72-1,2	72ND FLOOR	STAIR K,L PRESSURIZATION	10,000	1.5	1264	HORIZ.	9	977				MIXED FLOW INLINE	270QMX-HP	3.37	7.5	1725		460	3	60				
E-49-1	49TH FLOOR	MER EXHAUST	8,500	1.5	1547	HORIZ.	9	1322				MIXED FLOW INLINE	225QMX-HP	3.40	7.5	1725		460	3	60				
TX-49-1	49TH FLOOR	TOILET EXHAUST	8,000	1.5	1456	HORIZ.	9	1275				MIXED FLOW INLINE	225QMX-HP	3.12	7.5	1725		460	3	60				
KX-49-1	49TH FLOOR	KITCHEN EXHAUST	10,000	1.5	1264	HORIZ.	9	977				MIXED FLOW INLINE	270QMX-HP	3.37	7.5	1725		460	3	60				
GX-49-1	49TH FLOOR	TRASH EXHAUST	880	1.5	–	HORIZ.	–	2913				CENTRFGL SQUARE INLINE	80SQN-B	0.666	0.75	3450		460	3	60				
SPF-49-1,2,3,4	49TH FLOOR	STAIR K,L PRESSURIZATION	10,000	1.5	1264	HORIZ.	9	977				MIXED FLOW INLINE	270QMX-HP	3.37	7.5	1725		460	3	60				
E-27-1	27TH FLOOR	MER EXHAUST	10,000	1.5	1264	HORIZ.	9	977				MIXED FLOW INLINE	270QMX-HP	3.37	7.5	1725		460	3	60				
TX-27-1	27TH FLOOR	TOILET EXHAUST	10,000	1.5	1264	HORIZ.	9	977				MIXED FLOW INLINE	270QMX-HP	3.37	7.5	1725		460	3	60				
KX-27-1	27TH FLOOR	KITCHEN EXHAUST	14,000	1.5	1770	HORIZ.	9	1212				MIXED FLOW INLINE	270QMX-HP	5.53	15	1725		460	3	60				
GX-27-1	27TH FLOOR	TRASH EXHAUST	760	1.5	–	HORIZ.	–	1632				CENTRFGL SQUARE INLINE	150SQN-HP	0.39	0.5	1725		460	3	60				
SPF-27-1,2,3,4	27TH FLOOR	STAIR K,L PRESSURIZATION	10,000	1.5	1264	HORIZ.	9	977				MIXED FLOW INLINE	270QMX-HP	3.37	7.5	1725		460	3	60				
SX-7-1	7TH FLOOR	PODIUM SMOKE PURGE	30,000	1.5	1706	HORIZ.	9	792				MIXED FLOW INLINE	402QMX-HP	11.6	25	1725		460	3	60				
E-7-2	7TH FLOOR	MER EXHAUST	12,000	1.5	1517	HORIZ.	9	1089				MIXED FLOW INLINE	270QMX-HP	4.36	10	1725		460	3	60				
TX-7-3	7TH FLOOR	TOILET EXHAUST	3,440	1.5	1228	HORIZ.	9	1747				MIXED FLOW INLINE	150QMX-HP	1.11	1.5	1725		460	3	60				
LX-7-4	7TH FLOOR	LAUNDRY EXHAUST	7,500	1.5	1456	HORIZ.	9	1275				MIXED FLOW INLINE	225QMX-HP	3.12	7.5	1725		460	3	60				
GX-7-5	7TH FLOOR	GARBAGE EXHAUST	7,560	1.5	1456	HORIZ.	9	1275				MIXED FLOW INLINE	225QMX-HP	3.12	7.5	1725		460	3	60				
EF-7-6	7TH FLOOR	TRASH ROOM EXHAUST	760	1.5	–	HORIZ.	–	1632				CENTRFGL SQUARE INLINE	150SQN-HP	0.39	0.5	1725		460	3	60				
SPF-27-1,2	7TH FLOOR	STAIR K,L,M PRESSURIZATION	10,000	1.5	1264	HORIZ.	9	977				MIXED FLOW INLINE	270QMX-HP	3.37	7.5	1725		460	3	60				
SX-4-1	4TH FLOOR	PODIUM SMOKE PURGE	30,000	1.5	1706	HORIZ.	9	792				MIXED FLOW INLINE	402QMX-HP	11.6	25	1725		460	3	60				
EF-C-1	CELLAR	PARKING EXHAUST	14,000	1.5	1770	HORIZ.	9	1212				MIXED FLOW INLINE	270QMX-HP	5.53	7.5	1725		460	3	60				
SF-C-1	CELLAR	PARKING SUPPLY	14,000	1.5	1770	HORIZ.	9	1212				MIXED FLOW INLINE	270QMX-HP	5.53	7.5	1725		460	3	60				

UNIT AND ENTRANCE HEATERS

UNIT HEATER No.	LOCATION	FAN CFM (HIGH SPEED)	FAN R.P.M.	HEAT OUTPUT BTUH PER HOUR (MBH)	ENTERING AIR TEMP. DB (°F)	FINAL AIR TEMP. DB (°F)	HOT WATER			ELECTRIC	MOTOR		TYPE	MODEL No.	REMARKS
							GPM	ENTERING WATER TEMP. (°F)	LEAVING WATER TEMP. (°F)	VOLTS/PHASE/Hz	H.P.	R.P.M.			
UH-1-1&2	VARIOUS	2,200	1,140	118	68	110	11.8	170	190	460/3/60	1/3	1,140	TRANE	S-180	

NOTE: UNIT HEATERS AT EACH ENTRANCE & (4) PER MACHINE EQUIPMENT ROOM.

PUMPS

(ARMSTRONG AS STANDARD)

PUMP No.	LOCATION	SERVICE	GPM	TOTAL DYNAMIC HEAD (FT H20)	% EFFICIENCY	SHUT-OFF HEAD (FT H20)	IMPELLER DIA. (IN.)	B.H.P.	MINIMUM MOTOR H.P.	R.P.M.	ELECTRICAL VOLTS	ELECTRICAL PHASE	ELECTRICAL CYCLES	WORKING PRESS. (PSIG)	MODEL No.	VIBRATION BASE MIN.	VIBRATION BASE SPEC. TYPE	STATIC DEFL. (IN.)	REMARKS
SCWP-27-1,2	27TH FLOOR	SUB-CELLAR THRU 26TH FL SCW	2,580	100	82.48		15.5	39.5	50	1180	460	3	60		SERIES 4300 0815-050.0				
SCWP-49-1,2	49TH FLOOR	28TH FL THRU 50TH FL SCW	716	130	72.16		6	16.29	20	3688	460	3	60		SERIES 4300 0308-020.0				
SCWP-72-1,2	72ND FLOOR	51ST FL THRU 72ND FL SCW	494	100	71.01		5.56	8.78	10	3531	460	3	60		SERIES 4300 0306-010.0				
PCWP-72-1,2,3	72ND FLOOR	51ST FL THRU 72ND FL CW	1,895	100															
PHWP-4-1,2	4TH FLOOR	BOILER LOOP	1,730	70	83.76		10.19	37.48	50	1706	460	3	60		SERIES 4300 0810-050.0				
PHWP-4-3,4	4TH FLOOR	7TH FL THRU 50TH FL HW	1,730	150	82.48		13.19	81.56	100	1758	460	3	60		SERIES 4300 0813-100.0				
SHWP-27-1,2	27TH FLOOR	7TH FL THRU 26TH FL SHW	440	100	68.56		5.56	8.07	10	3465	460	3	60		SERIES 4300 0306-010.0				
SHWP-49-1,2	49TH FLOOR	27TH FL THRU 72ND FL SHW	474	150	77.42		7.38	23.78	30	3299	460	3	60		SERIES 4300 0308-030.0				

HOT WATER BOILERS

(AERCO AS STANDARD)

BOILER No.	LOCATION: CONSTRUCTION FLOOR	LOCATION: DISPLAY FLOOR	CAPACITY (BHP) 80 DEG F RWT	AHRI CERTIFIED NET OUTPUT (MBH)	INLET WATER TEMP. (°F)	OUTLET WATER TEMP. (°F)	WATER DATA: RELIEF VALVE PRESSURE (PSIG)	WATER DATA: BOILER PRESSURE RATING (PSIG)	WATER DATA: BOILER MAX/MIN WATER FLOW (GPM)	BURNER DATA: FUEL	BURNER DATA: GAS INPUT (CFH)	BURNER DATA: MAX/MIN GAS INLET PRESSURE (IN W.C.)	BURNER DATA: OUTLET WATER TEMP. (°F)	BOILER TYPE	DIMENSIONS LxWxH (IN)	UNIT OPERATING WEIGHT (LBS)	ELECTRICAL DATA: VOLTS/HZ/PHASE	ELECTRICAL DATA: FLA	ELECTRICAL DATA: BURNER MOTOR HP	DESIGN WORKING PRESSURE (PSIG)	MODEL No.	MEA NUMBER/VL NUMBER	REMARKS
B-1,2,3,4,5,6	4	4	169	5670	150	180	125	150	75/600	NATURAL GAS	6000	14" WC/ 2 PSIG	180	CONDENSING HYDRONIC	108x34x80	3920	460/3/60	12A	5	120	BMK 6000	MH45583	88% EFFICIENT

NOTES:
1. PROVIDE BURNER WITH MAXIMUM 20 PPM NO$_x$ LEVELS
2. PROVIDE VIBRATION ISOLATION PADS AS PER SPECIFICATIONS.
3. BOILERS TO BE MOUNTED ON 6 INCH HIGH BEAMS AND 4 INCH HIGH CONCRETE HOUSEKEEPING PADS.
4. PROVIDE CONDENSATE NEUTRALIZATION SYSTEM WITH INTERNAL DRAIN TRAP AND FLOAT VALVE WITH EACH BOILER AND FOR EXHAUST FLUE RISER.
5. PROVIDE O2 SENSOR FOR PERFORMANCE/EFFICIENCY VERIFICATION.
6. MINIMUM BURNER TURNDOWN 15:1.

FUEL OIL TRANSFER PUMPS

PUMP No.	LOCATION	SERVICE	GPM	DISCHARGE HEAD (PSIG)	SUCTION PRESSURE (IN HG.)	PUMP R.P.M.	B.H.P.	MINIMUM MOTOR H.P.	ELECTRICAL VOLTS	ELECTRICAL PHASE	ELECTRICAL HERTZ	MODEL No.	REMARKS
FOP-1-1	SUB-CELLAR	EMERGENCY GENERATOR	20	100	15	1750	1.97	3	460	3	60	DUPLEX	POSITIVE DISPLACEMENT

NOTES:
1. FUEL OIL PUMPS FOP-1-1 SHALL BE CONNECTED TO THE BUILDING'S EMERGENCY POWER DISTRIBUTION.

FUEL OIL FILL SKID

(FLOWSERVE AS STANDARD)

PUMP No.	LOCATION	SERVICE	GPM	DISCHARGE HEAD (PSIG)	SUCTION PRESSURE (IN HG.)	PUMP R.P.M.	B.H.P.	MINIMUM MOTOR H.P.	ELECTRICAL VOLTS	ELECTRICAL PHASE	ELECTRICAL HERTZ	MODEL No.	REMARKS
FOS-1-1	SUB-CELLAR	FUEL OIL FILL STATION	150	30	–	1750	–	5	460	3	60	D824-3X2X9	

NOTES:
1. FUEL OIL FILL SKID FOS-1-1 SHALL BE CONNECTED TO THE BUILDING'S EMERGENCY POWER DISTRIBUTION.
2. FUEL OIL FILL SKID TO BE INSTALLED WITH A PUMP BYPASS TO FUEL OIL TANK.

FIN TUBE SCHEDULE

(VULCAN LINOVECTOR STYLE "DT" (3/4" C-4 1/4" x 3 5/8"-50) AS STANDARD)

TYPE	LENGTH	SUPPLY	FIN/ FT	FIN TYPE	BTU/ L.F. 1-TIER	GPM	BTU/ L.F. 2-TIER HIGH	REMARKS
FT-1	4'-0"	1	40	ALUM.	930	.37	——	
FT-2	6'-0"	1	40	ALUM.	930	.56	——	
FT-3	7'-0"	1	40	ALUM.	930	.65	——	
FT-4	9'-0"	1	40	ALUM.	930	.84	——	
FT-5	10'-0"	1	40	ALUM.	930	.93	——	
FT-6	12'-0"	1	40	ALUM.	930	1.1	——	
FT-7	15'-0"	1	40	ALUM.	930	1.4	——	
FT-8	3'-0"	1	40	ALUM.	930	1.4	——	

NOTES:
1. ALL FINNED TUBE ELEMENTS SHALL BE 0.020 ALUM. FINS ON 1" COPPER PIPE WITH LENGTHS AS SHOWN ON RISERS AND/OR PLANS.
2. FINNED TUBE ELEMENTS SHALL BE GUARANTEED TO MEET OR EXCEED THE SCHEDULED CAPACITY PER LINEAR FOOT WHEN INSTALLED WITHIN THE ENCLOSURE TYPES AS DETAILED ON ARCHITECTURAL DRAWINGS.
3. INSTALL WITHIN ENCLOSURE AS PER ARCHITECTURAL SPECIFICATION.
4. PROVIDE DANFOSS VALVE WITH REMOTE SENSOR. MOUNT SENSOR AT DISCHARGE END OF RADIATOR.
5. PROVIDE ISOLATION VALVES AND UNIONS ON INLET AND OUTLET CONNECTIONS.
6. PROVIDE WALL BRACKETS FOR SUPPORT OF FIN-TUBE RADIATORS AND PIPING.

PLATE AND FRAME HEAT EXCHANGERS

(KELVION AS STANDARD)

UNIT No.	LOCATION	SERVICE	HOT SIDE: GPM	HOT SIDE: INLET TEMP. (°F)	HOT SIDE: OUTLET TEMP. (°F)	HOT SIDE: MAX. PRESS. DROP (PSI)	HOT SIDE: DESIGN PRESS. (PSIG)	HOT SIDE: FOULING FACTOR	COLD SIDE: GPM	COLD SIDE: INLET TEMP. (°F)	COLD SIDE: OUTLET TEMP. (°F)	COLD SIDE: MAX. PRESS. DROP (PSI)	COLD SIDE: DESIGN PRESS. (PSIG)	COLD SIDE: FOULING FACTOR	HEAT TRANSFER AREA (SQ. FT)	OVERALL DIM. LENGTH x WIDTH x HEIGHT (IN.)	LIQUID CIRCULATED	MODEL No.	REMARKS
PFHX-4-1,2	4TH FLOOR	SUB-CELLAR THRU 6TH FL SHW	1,776	180	150	–	150	0.0001	1,776	148	178	–	400	0.0001	12,462	70 x 20 x 76	H20	AQ14L-FS	
PFHX-27-4,5	27TH FLOOR	7TH FL THRU 26TH FL SHW	219	178	148	–	300	0.0001	219	146	176	–	300	0.0001	1259.4	70 x 20 x 76	H20	AQ4L-FS	
PFHX-49-4,5	49TH FLOOR	27TH FL THRU 72ND FL SHW	486	178	148	–	450	0.0001	486	146	176	–	450	0.0001	2545.7	86 x 25 x 108	H20	AQ6L-FS	
PFHX-27-1,2,3	27TH FLOOR	SUB-CELLAR THRU 26TH FL SCW	1,290	102	87	–	300	0.0001	1,290	85	100	–	450	0.0005	7943.8	158 x 37 x 122	H20	AQ10L-FS	
PFHX-49-1,2,3	49TH FLOOR	27TH FL THRU 50TH FL SCW	358	102	87	–	300	0.0001	358	85	100	–	300	0.0005	1506.9	82 x 20 x 76	H20	AQ4L-FS	
PFHX-72-1,2,3	72ND FLOOR	51ST FL THRU 72ND FL SCW	247	102	87	–	300	0.0001	247	85	100	–	150	0.0005	1044.1	58 x 20 x 76	H20	AQ4L-FS	

COOLING TOWERS

(MARLEY AS STANDARD)

TOWER No.	LOCATION	No. OF CELLS	GPM (TOTAL)	INLET WATER TEMP. (°F)	OUTLET WATER TEMP. (°F)	AIR WB TEMP.(°F)	MIN. MOTOR HP/CELL	VFD TYPE	VFD BYPASS	CONTROLS	MAX. OPERATING WT. PER CELL (LBS)	CFM/CELL	MAXIMUM WIDTH x LENGTH x HEIGHT (PER CELL)	MODEL No.	REMARKS
CT-1	ROOF	2	3,789	100	85	78	125	YES	YES	YES	48,620	380,000	22.42' x 13.90' x 27.10'	NC8414YAS2	

NOTES:
1. EACH CELL SHALL BE PROVIDED WITH TWO (2) 9.0kW ELECTRIC BASIN HEATERS.
2. MAXIMUM HEIGHT INCLUDE VELOCITY STACK, RAILINGS, ETC.
3. COOLING TOWER CELLS SHALL BE ALL STAINLESS STEEL CONSTRUCTION.
4. PROVIDE VIBRATION ISOLATION AS PER SPECIFICATIONS.

VARIABLE VOLUME BOXES

BOX SIZES	MAXIMUM SET POINT CFM/SPEC. SILENCER TYPE: HIGH RANGE	MIN. SET POINT CFM AS SHOWN ON PLANS	MIN. SP. @ BOX MAX. CFM	INLET AND OUTLET SIZES (IN.): IN	INLET AND OUTLET SIZES (IN.): OUT	BOXES WITH REHEAT COIL: BOX SIZES (SEE DWGS)	ENTERING AIR TEMP. (°F)	LEAVING AIR TEMP. (°F)	ENTERING WATER TEMP. (°F)	LEAVING WATER TEMP. (°F)	No. OF ROWS	GPM	MAXIMUM COIL PRESSURE DROP (FT H20)	MINIMUM SP. @ BOX MAX. CFM	REMARKS

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
30 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.5000

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
220 WEST 42TH STREET
NEW YORK, NY 10017
tel 212.687.9888

GEOTECHNICAL ENGINEER
MRCE
233 WEST 39TH STREET 6TH FLOOR
NEW YORK, NY 10123
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FL.FLOOR
NEW YORK, NY 10016
tel 646.388.9826

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.601.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7500

INTERIORS
GACHOT
164 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6340

LIGHTING
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NEW YORK, NY 10001
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1410 BROADWAY, SUITE 508
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POOL
TRACE POOL DESIGN
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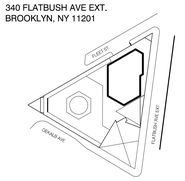
WHITE PLAINS, NY 10604
tel 914.495.4090

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
04/01/16	PO & SOE DOB FILING SET			

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DRAWING TITLE

HVAC SCHEDULE
SHEET NO. 2

SEAL & SIGNATURE

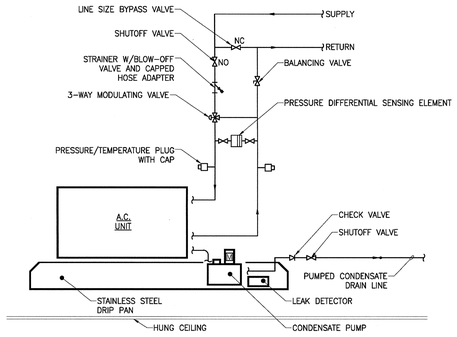
DATE	07/15/16
PROJECT NO.	15466.0
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

DRAWING NUMBER

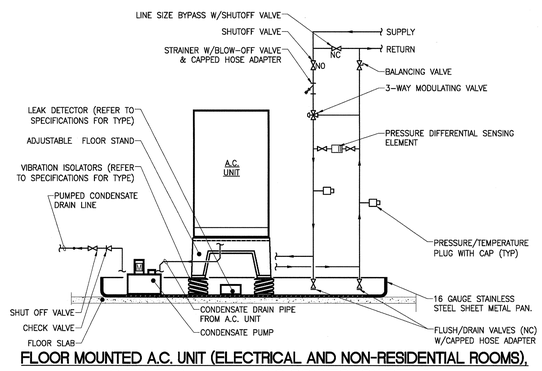
M-501.00

14 JULY 2016

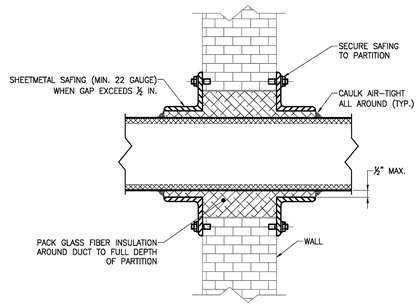
DEPT OF BLDGS 320914338 Job Number
E350035290514 Scan Code



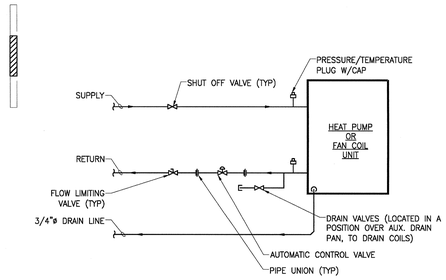
CEILING MOUNTED A.C. UNIT (ELECTRICAL AND NON-RESIDENTIAL ROOMS), WATER PIPING CONNECTION DETAIL



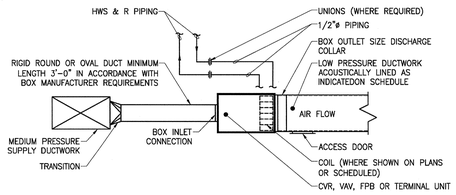
FLOOR MOUNTED A.C. UNIT (ELECTRICAL AND NON-RESIDENTIAL ROOMS), OVERHEAD WATER PIPING CONNECTION DETAIL



DUCT PENETRATION THROUGH MER WALL



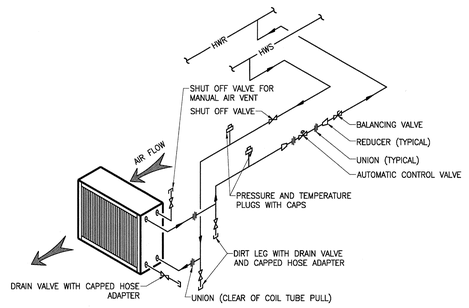
TYPICAL TWO PIPE HEAT PUMP AND FAN COIL UNIT PIPING CONNECTION DETAIL



NOTE:

SEE HOT WATER COIL PIPING CONNECTION DETAIL FOR VALVE ARRANGEMENT.

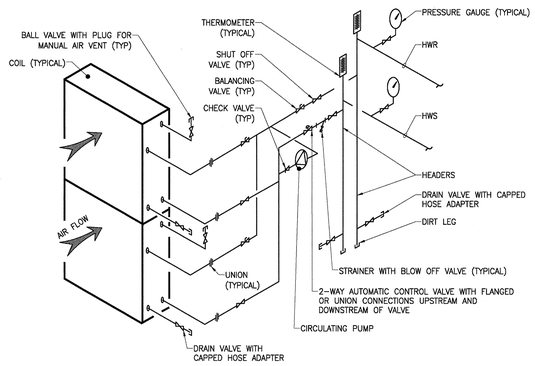
CVR, VAV, FPB OR TERMINAL UNIT WITH REHEAT COIL CONNECTION DETAIL



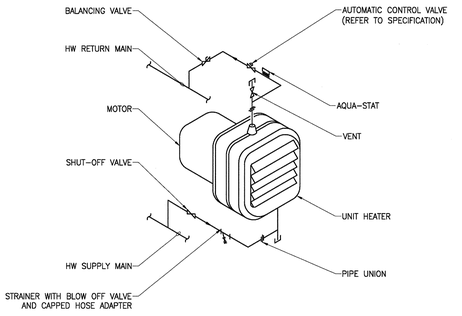
NOTES:

1. PROVIDE ACCESS DOORS UPSTREAM AND DOWNSTREAM OF ALL HEATING COILS.
2. FOR DUCT MOUNTED REHEAT COILS PROVIDE PRESSURE/TEMPERATURE PLUGS WITH CAPS IN LIEU OF THERMOMETERS AND PRESSURE GAUGES.

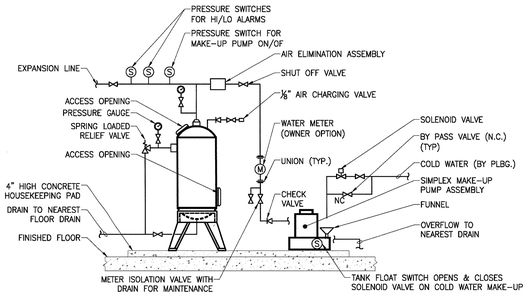
REHEAT COIL PIPING CONNECTION DETAIL



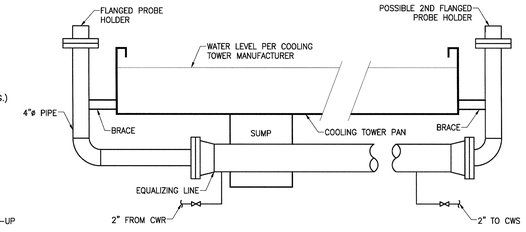
HOT WATER PREHEAT COIL PIPING CONNECTION DETAIL



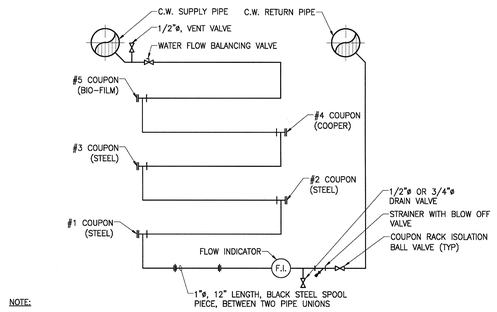
HW UNIT HEATER PIPING CONNECTION



DIAPHRAGM EXPANSION TANK WITH MAKE-UP PUMP



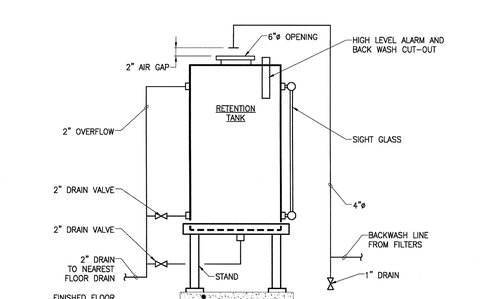
COOLING TOWER MAKE-UP PROBE ARRANGEMENT



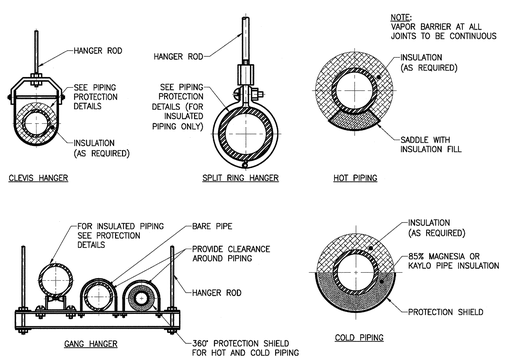
NOTE:

METERED WATER FLOW THROUGH 1"ø BLACK STEEL PIPING TO BE MAINTAINED AT 4 TO 6 G.P.M., WHICH PROVIDES FLOW VELOCITY OF 3 TO 5 F.P.S.

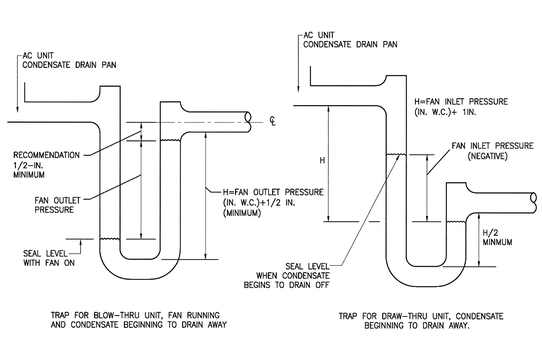
OPEN C.W. SYSTEM 1" BLACK STEEL CORROSION COUPON RACK PIPE DETAIL.



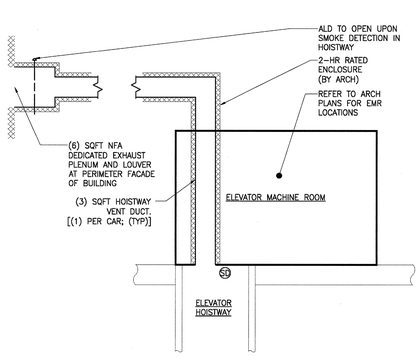
COOLING TOWER FILTRATION SYSTEM BACKWASH AND RETENTION TANK DETAIL



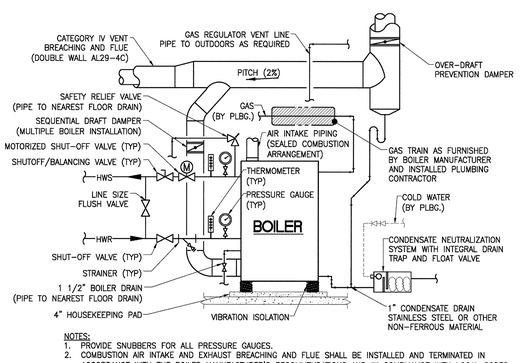
PIPING SUPPORT AND INSULATION DETAILS



CONDENSATE TRAPS FOR COOLING COILS



ELEVATOR HOISTWAY VENT TYPICAL DETAIL



NOTES:

1. PROVIDE SNUBBERS FOR ALL PRESSURE GAUGES.
2. COMBUSTION AIR INTAKE AND EXHAUST BREACHING AND FLUE SHALL BE INSTALLED AND TERMINATED IN ACCORDANCE WITH THE BOILER MANUFACTURER'S RECOMMENDATIONS AND IN COMPLIANCE WITH LOCAL CODES.
3. EACH BOILER SHALL BE PROVIDED WITH A LOW WATER CUT-OFF SENSOR.

CONDENSING BOILER PIPING AND VENT DETAIL

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.605.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.8000

WSP CANTOR SEINUK STRUCTURAL CONSULTANTS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.697.9668

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
232 WEST 39TH STREET 6TH FLOOR
NEW YORK, NY 10032
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9509

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.666.0646

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768.6540

BOLD

Longman Lindsey

LIGHTING
BOLD
207 WEST 25TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 108
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

SIMPSON GUMPERTZ & HEGER

BMU ENGINEER
ENTEK ENGINEERING
146 HAVES STREET
HACKENSACK, NJ 07601
tel 201.820.2800

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BURO HAPPOLD ENGINEERING

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.668.5389

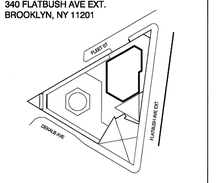
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.3325

Lotrecs TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.455.4290

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
04/01/16	PC & BOE DOB FILING SET			

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DRAWING TITLE

HVAC DETAIL SHEET NO. 1

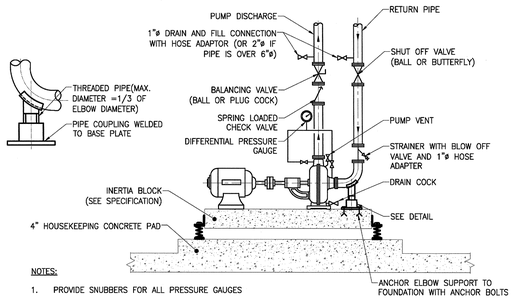
SEAL & SIGNATURE

STATE OF NEW YORK — JAMES LEWIS — 082114 — LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	15466.0
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338
DRAWING NUMBER	M-600.00

14 JULY 2016

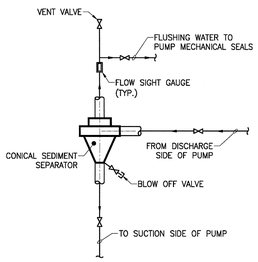
DEPT OF BLDGS 320914338 Job Number
B2000613467S Scan Code



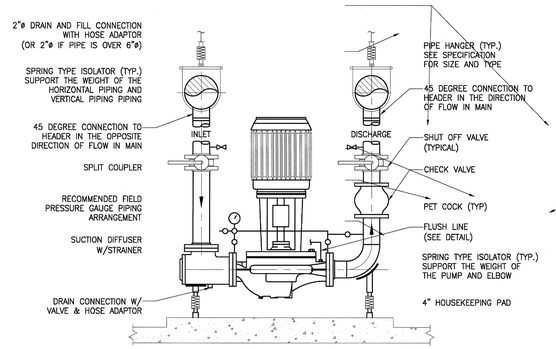
NOTES:

1. PROVIDE SNUBBERS FOR ALL PRESSURE GAUGES
2. ADJUST ELBOW SUPPORT TO ASSURE THAT PIPING LOADS ARE NOT TRANSMITTED TO PUMP.
3. TACK WELD COUPLING TO SUPPORT AFTER ADJUSTING.
4. FURNISH AND INSTALL CYCLONE SEPARATOR AS DETAILED.

END SUCTION PUMP DETAIL

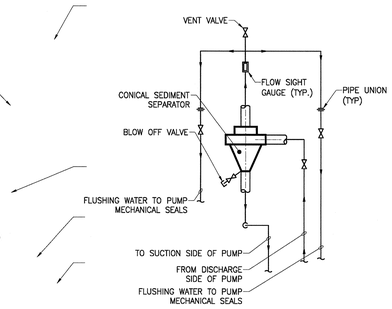


PIPING ASSEMBLY FOR EXTERNALLY FLUSHED MECHANICAL SEALS AT END SUCTION PUMP

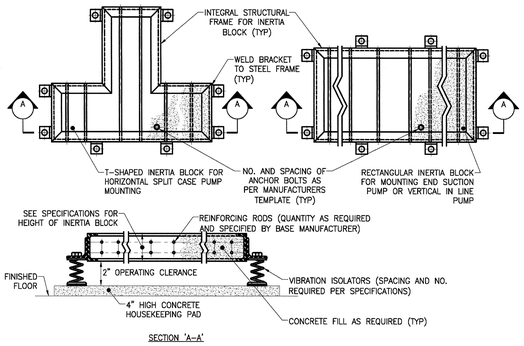


NOTES:
1. PROVIDE SNUBBERS FOR ALL PRESSURE GAUGES
2. ADJUST ELBOW SUPPORT TO ENSURE THAT PIPING LOADS ARE NOT TRANSMITTED TO PUMP.
3. TACK WELD COUPLING TO SUPPORT AFTER ADJUSTING.
4. SPRINGS TO BE VERTICALLY AND HORIZONTALLY RESTRAINED.

VERTICAL SPLIT COUPLED INLINE PUMP DETAIL

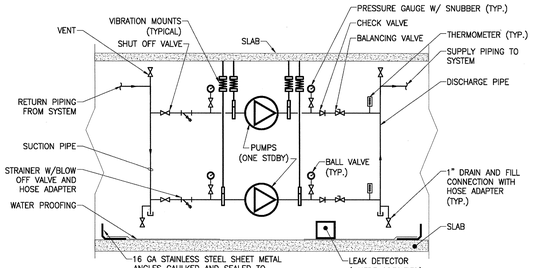


PIPING ASSEMBLY FOR EXTERNALLY FLUSHED MECHANICAL SEALS AT HORIZONTAL SPLIT CASE AND VERTICAL INLINE PUMP



SECTION 'A–A'

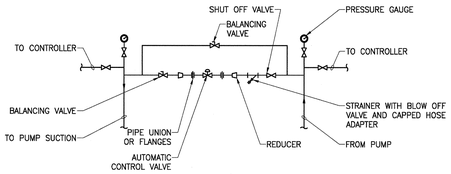
TYPICAL PUMP BASE MOUNTING DETAIL



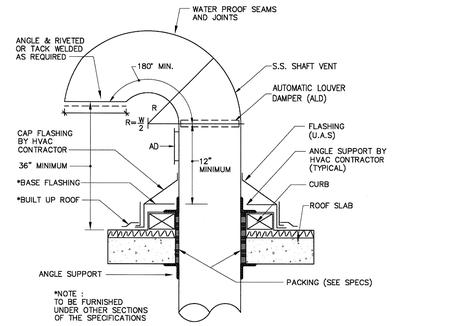
NOTES:

1. ALL PIPING AND EQUIPMENT SHALL BE RESILIENTLY SUPPORTED AS PER SPECIFICATIONS.
2. REFER TO DETAIL FOR CYCLONE SEPARATOR PIPING ARRANGEMENT.

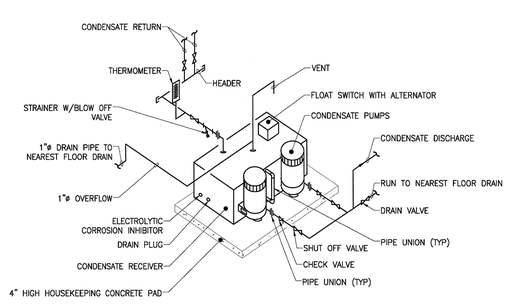
INLINE PUMP ASSEMBLY DETAIL



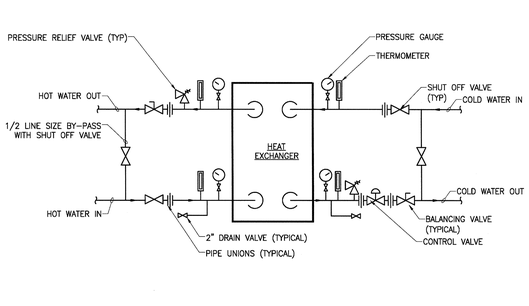
PRESSURE DIFFERENTIAL BYPASS OR INJECTION CONTROL VALVE ARRANGEMENT



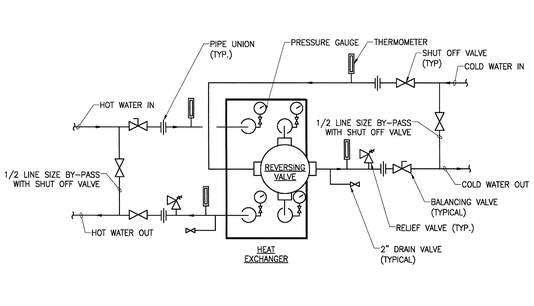
SHAFT VENT GOOSENECK DETAIL AT ROOF



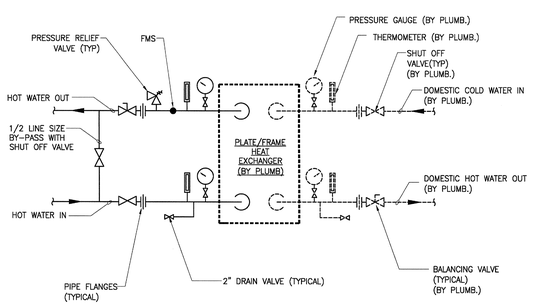
DUPLEX CONDENSATE PUMP AND RECEIVER CONNECTIONS



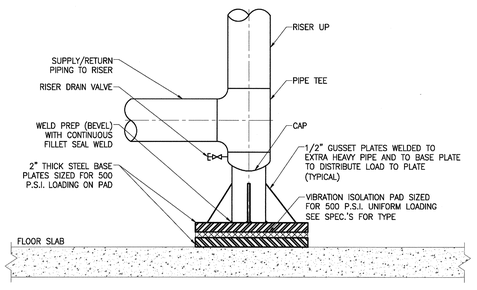
DETAIL OF PLATE-AND-FRAME HX WITH CONTROL VALVE (CLOSED WATER SYSTEMS)



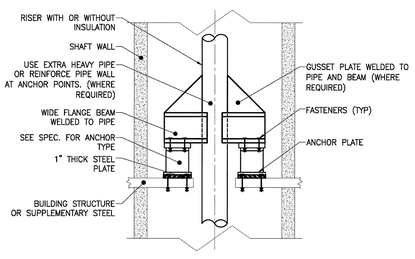
DETAIL OF PLATE-AND-FRAME HX WITH REVERSING VALVE (OPEN CONDENSER WATER SYSTEM)



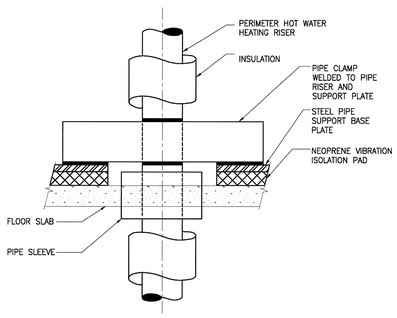
TYPICAL DOMESTIC HOT WATER PLATE-AND-FRAME HX PIPING CONNECTION DETAIL



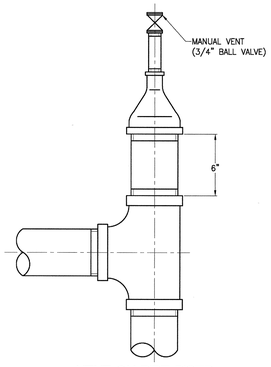
TYPICAL BASE SUPPORT DETAIL FOR PIPE RISERS



TYPICAL ANCHOR AND GUIDE SUPPORT DETAILS FOR PIPE RISERS



TYPICAL PERIMETER HOT WATER HEATING RISER ANCHOR DETAIL



VENT ON PIPE RISER

BUILDING DEPARTMENT NOTES

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 6TH FLR
NEW YORK, NY 10011
tel 646.625.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.669.9003

JBB JANOS BAUM & BOLLES

MEP ENGINEER
JANOS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.8000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.697.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, #19
NEW YORK, NY 10010
tel 917.661.7900

GACHOT

INTERIORS
GACHOT
494 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.965.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768.6040

BOLD

LIGHTING
BOLD
207 WEST 25TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 1506
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
198 AMES STREET
MADISONDACK, NJ 07801
tel 201.820.2902

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.371.7000

VIDARIS

BUROHAPPOLD ENGINEERING

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10003
tel 212.989.5388

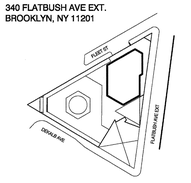
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.344.2025

TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
330 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4350

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET
04/01/16 PC & SOE DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

HVAC DETAIL SHEET NO. 2

SEAL & SIGNATURE

STATE OF NEW YORK — 042114 — REGISTERED PROFESSIONAL ENGINEER

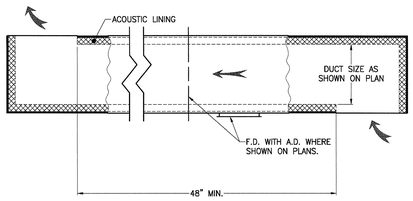
DATE	07/15/16
PROJECT NO.	15466.0
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

DRAWING NUMBER

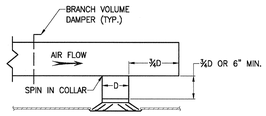
M-601.00

14 JULY, 2016

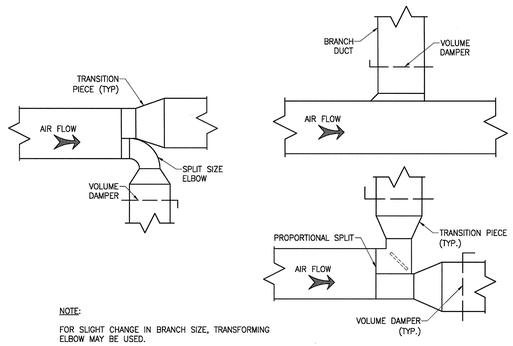
1307F OF BLDGS 320014338 Job Number
E-DB213250/96 Scan Code



TRANSFER DUCT DETAIL



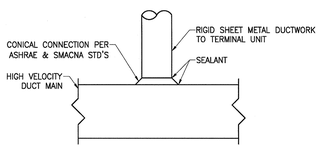
TYPICAL DIFFUSER INSTALLATION



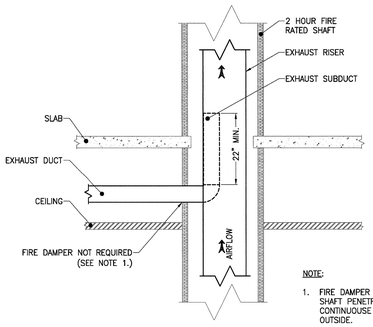
NOTE:

FOR SLIGHT CHANGE IN BRANCH SIZE, TRANSFORMING ELBOW MAY BE USED.

LOW VELOCITY DUCT CONNECTIONS



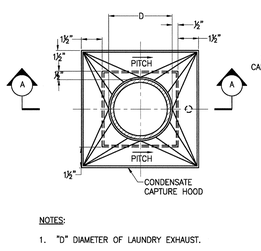
MEDIUM PRESSURE DUCT CONNECTION



NOTE:

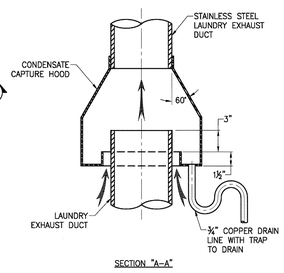
1. FIRE DAMPER IS NOT REQUIRED AT THE SHAFT PENETRATION IF THERE IS A CONTINUOUSE AIRFLOW UPWARD TO THE OUTSIDE.

EXHAUST INTERNAL BOOT DETAIL



NOTES:

1. "D" DIAMETER OF LAUNDRY EXHAUST.
2. CONSTRUCTED OF 304 STAINLESS STEEL.

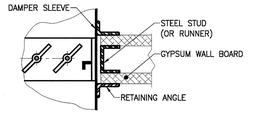


SECTION "A-A"

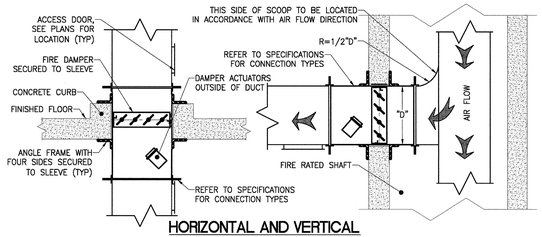
COMMERCIAL LAUNDRY EXHAUST CONNECTION

FIRE DAMPER NOTES:

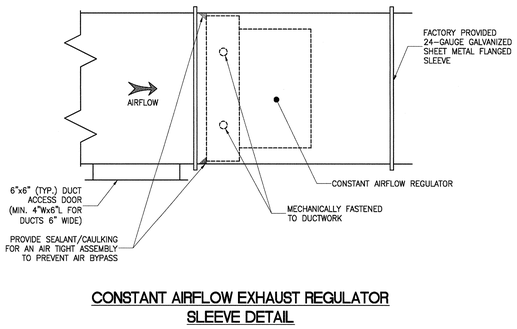
1. DRY WALL FRAMING AT FIRE DAMPERS MUST BE IN ACCORDANCE WITH WALL SYSTEM MANUFACTURER'S UL APPROVED DETAILS.
2. SHEET METAL SLEEVES TO BE 16 GA FOR DAMPERS NOT EXCEEDING 24" HIGH OR 36" WIDE. 14 GA FOR LARGER SIZE DAMPERS.
3. FIRE DAMPERS ARE TO BE INSTALLED IN FULL ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS PER UL 555D.
4. SEE ARCH'L DWGS FOR STUD LOCATION AT DAMPERS.



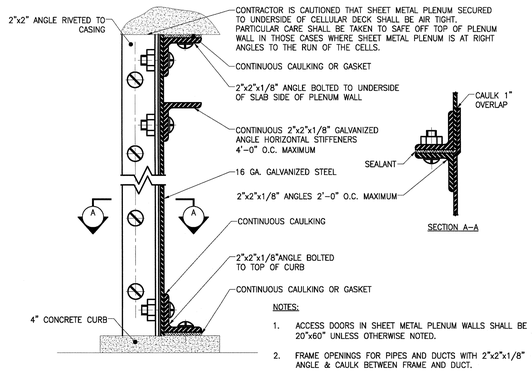
DETAIL OF FIRE DAMPER AT WALL



HORIZONTAL AND VERTICAL FIRE OR FIRE SMOKE DAMPERS INSTALLATION DETAIL



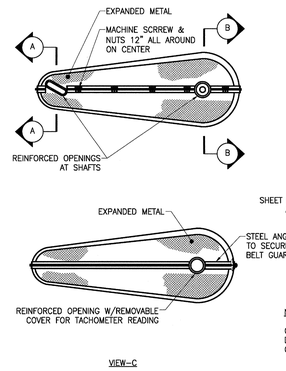
CONSTANT AIRFLOW EXHAUST REGULATOR SLEEVE DETAIL



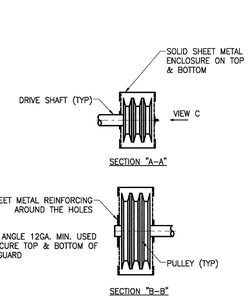
NOTES:

1. ACCESS DOORS IN SHEET METAL PLENUM WALLS SHALL BE 20"x60" UNLESS OTHERWISE NOTED.
2. FRAME OPENINGS FOR PIPES AND DUCTS WITH 2"x2"x1/8" ANGLE & CAULK BETWEEN FRAME AND DUCT.

SHEET METAL PLENUM DETAIL



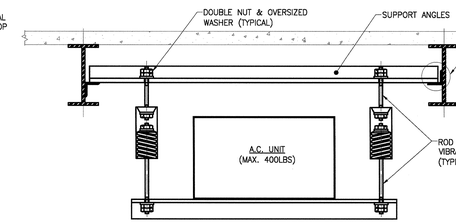
VIEW-C



NOTE:

OPENINGS IN EXPANDED METAL AND SPACING BETWEEN DRIVE GUARD, BELTS AND DRIVES MUST COMPLY WITH OSHA REQUIREMENTS.

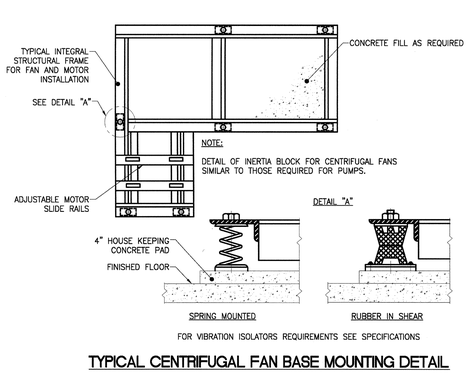
DRIVE GUARD DETAILS



NOTES:

1. AFTER ALL STEEL IS IN PLACE AND ALL WELDING IS COMPLETED, RESTORE ALL FIREPROOFING THAT WAS REMOVED OR DAMAGED DURING CONSTRUCTION.
2. CONTRACTOR TO SUBMIT UNIT SUPPORT DETAIL FOR APPROVAL BY STRUCTURAL ENGINEER.

A.C. UNIT SUPPORT DETAIL

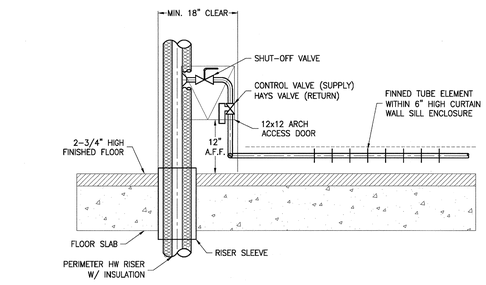


NOTE:

DETAIL OF INERTIA BLOCK FOR CENTRIFUGAL FANS SIMILAR TO THOSE REQUIRED FOR PUMPS.

FOR VIBRATION ISOLATORS REQUIREMENTS SEE SPECIFICATIONS

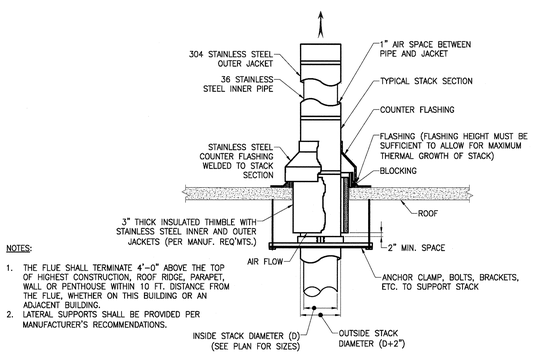
TYPICAL CENTRIFUGAL FAN BASE MOUNTING DETAIL



NOTES:

1. FINNED TUBE SHALL BE 3/4" COPPER WITH 2-3/4"Hx4"Wx0.016" THICK ALUMINUM FINS @ 48 FINS PER FOOT.
2. AT 72°F ENTERING AIR TEMP AND 170° AVERAGE WATER TEMPERATURE, THE HEAT OUTPUT SHALL BE NO LESS THAN 712.5 BTU/LF

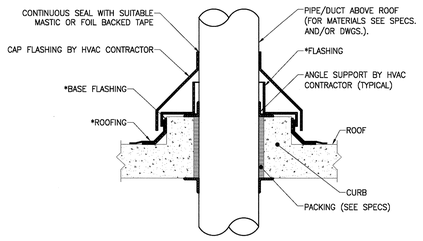
FINNED TUBE DETAIL



NOTES:

1. THE FLUE SHALL TERMINATE 4'-0" ABOVE THE TOP OF HIGHEST CONSTRUCTION, ROOF RIDGE, PARAPET, WALL OR PENTHOUSE WITHIN 10 FT. DISTANCE FROM THE FLUE, WHETHER ON THIS BUILDING OR AN ADJACENT BUILDING.
2. LATERAL SUPPORTS SHALL BE PROVIDED PER MANUFACTURER'S RECOMMENDATIONS.

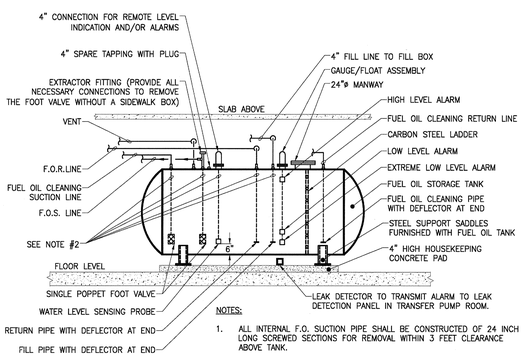
TYPICAL FLUE DETAIL FOR BOILERS AND CHILLER/HEATERS



*NOTE:

TO BE FURNISHED UNDER OTHER SECTIONS OF THE SPECIFICATION.

CURB AND FLASHING DETAIL FOR PIPE/DUCT PENETRATIONS AT ROOF



NOTES:

1. ALL INTERNAL F.O. SUCTION PIPE SHALL BE CONSTRUCTED OF 24 INCH LONG SCREWED SECTIONS FOR REMOVAL WITHIN 3 FEET CLEARANCE ABOVE TANK.
2. ALL PIPING CONNECTIONS SHALL BE 4"ø.

FUEL OIL TANK DETAIL

BUILDING DEPARTMENT NOTES

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.605.3040

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ARCHITECT
SHoP ARCHITECTS, P.C.
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NEW YORK, NY 10279
tel 212.888.9005

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tel 212.630.9000

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.667.9568

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GEOTECHNICAL ENGINEER
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229 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

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NEW YORK, NY 10016
tel 646.388.9528

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VERTICAL TRANSPORTATION
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130 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3940

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7500

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INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.666.0446

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237 WEST 35TH STREET
NEW YORK, NY 10001
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NEW YORK, NY 10018
tel 212.315.6400

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tel 914.455.4350

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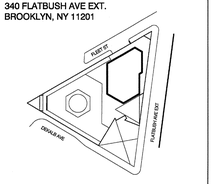

SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
04/01/16	FD & BOE DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

HVAC DETAIL SHEET NO. 3

SEAL & SIGNATURE

STATE OF NEW YORK — JAMES RAMSEY — 087114 — REGISTERED PROFESSIONAL ENGINEER

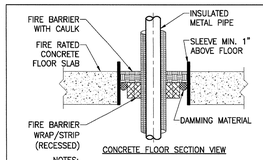
DATE	07/15/16
PROJECT NO.	15466.0
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

DRAWING NUMBER

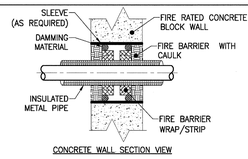
M-602.00

14 JULY, 2016

DEPT OF BLDGS 320914338 Job Number
E350080000148 Scan Code



CONCRETE FLOOR SECTION VIEW



CONCRETE WALL SECTION VIEW

NOTES:

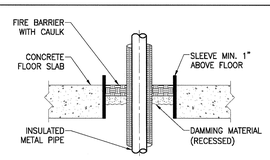
1. WALL PENETRATION FIRESTOPS MUST BE INSTALLED ON BOTH SIDES OF THE WALL, THE FLOOR PENETRATION FIRESTOP IS TO BE INSTALLED FOR THE TOP OF THE FLOOR SURFACE.
2. THE ANNULAR SPACE MUST BE LARGE ENOUGH TO ACCOMODATE THE MIN. NUMBER OF WRAP/STRIPS REQUIRED IN BOTH THE FLOOR OR WALL. THE MINIMUM ANNULAR SPACE MUST ACCOMODATE THE MINIMUM NUMBER OF WRAP/STRIPS REQUIRED PER INSULATION THICKNESS. (SEE TABLE BELOW)

TABLE 1

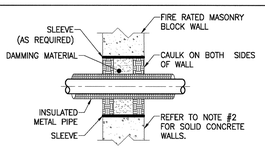
WRAP	CAULK (MIN.)	INSULATION	HOUR RATING
2 WRAPS	1/2" DEPTH	1" THICK	3
3 WRAPS	1/2" DEPTH	2" THICK	2
4 WRAPS	1/2" DEPTH	3" THICK	2

3. IF THE ANNULAR SPACE IS GREATER THAN 1/2" AFTER THE INSTALLATION OF THE WRAP/STRIP, IT MAY BE FILLED WITH ADDITIONAL WRAP/STRIPS UP TO LESS THAN 1/2" OR FILLED WITH THE PROPER AMOUNT OF CAULK (SEE TABLE 1). A SUITABLE DAMMING MATERIAL SUCH AS MINERAL WOOL MUST BE PROVIDE TO SUPPORT THE CAULK AND PREVENT LEAKAGE.
4. SEAL THE SURFACE AND EDGES OF THE THROUGH OPENINGS WITH A MINIMUM 1/4" BEAD OF CAULK.
5. INSTALLATION MUST CONFORM WITH PRODUCT MANUFACTURERS PERFORMANCE RATINGS PER ASTM E-814 (UL 1479) FIRE TEST AND UL RESPECTIVE CLASSIFICATION FOR FIRE STOPPING.

PENETRATION FIRESTOP FOR 20" MAX. INSULATED METAL PIPE THROUGH A CONCRETE FLOOR OR WALL



CONCRETE FLOOR SECTION VIEW



MASONRY WALL SECTION VIEW

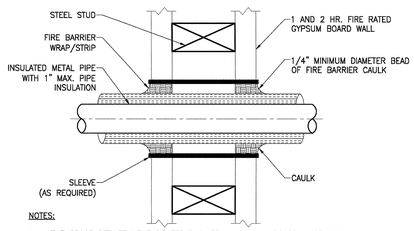
NOTES:

1. THE MAXIMUM ANNULAR SPACE TO BE FILLED IS 2", THE MINIMUM ANNULAR SPACE IS 3/4", THE MAXIMUM PIPE SIZE IS A NOMINAL 4" DIAMETER.
2. FOR SOLID CONCRETE WALLS, THE CAULK MAY BE CENTERED IN THE WALL WITH DAMMING MATERIAL ON BOTH SIDES OF THE CAULK.
3. PENETRATIONS SHALL BE CAULKED ON BOTH SIDES. SELF LEVELING CAULK SHALL BE USED ON ALL HORIZONTAL SURFACES.
4. THE DEPTH OF THE CAULK SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE:

CAULK DEPTH (MIN.)	INSULATION
1"	1" THICK
2"	2" THICK

5. INSTALLATION MUST CONFORM WITH PRODUCT MANUFACTURERS PERFORMANCE RATINGS PER ASTM E-814 (UL 1479) FIRE TEST AND UL RESPECTIVE CLASSIFICATION FOR FIRE STOPPING.

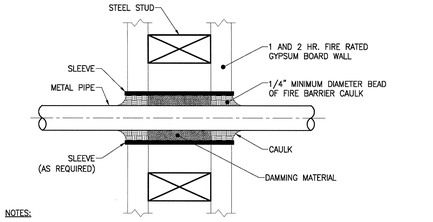
PENETRATION FIRESTOP FOR INSULATED METAL PIPE THROUGH A CONCRETE FLOOR OR WALL



NOTES:

1. THE SPACE BETWEEN THE PENETRATING ITEM AND WALL BOARD MUST ACCOMODATE AT LEAST ONE WRAP OF 1/4" FIRE BARRIER WRAP/STRIP.
2. IF THE ANNULAR SPACE IS LESS THAN 1/2", ONE WRAP OF WRAP/STRIP IS REQUIRED. IF THE ANNULAR SPACE IS 1/2" OR GREATER, FILL WITH ADDITIONAL WRAPS OF WRAP/STRIP UNTIL THE SPACE IS LESS THAN 1/4". WRAP/STRIP MAY BE FRICTION FIT INTO OPENING SECURED WITH FOIL TAPE OR 16 GAUGE STEEL TIE WIRE.
3. SLIDE THE WALL STRIPS INTO THE OPENING, LEAVING A MAXIMUM OF 3/4" EXPOSED WRAP BEYOND THE WALL SURFACE.
4. SEAL THE WRAP/STRIP EDGES AND SEAMS WITH 1/4" MINIMUM BEAD OF FIRE BARRIER CAULK.
5. INSTALL FIRESTOP ON BOTH SIDES OF THE WALL.
6. INSTALLATION MUST CONFORM WITH PRODUCT MANUFACTURERS PERFORMANCE RATINGS PER ASTM E-814 (UL 1479) FIRE TEST AND UL RESPECTIVE CLASSIFICATION FOR FIRE STOPPING.

PENETRATION FIRESTOP FOR INSULATED METAL PIPE THROUGH GYPSUM BOARD WALL



NOTES:

1. THE CAULK IS FORCED INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE.
2. FINISH CAULKING WITH A 1/4" MINIMUM BEAD OF CAULK APPLIED TO THE PERIMETER OF THE PIPE AT ITS EGRESS FROM THE WALL.
3. THE MAXIMUM ANNULAR SPACE IS NOT TO EXCEED 3/16".
4. INSTALL FIRESTOP ON BOTH SIDES OF WALL.
5. INSTALLATION MUST CONFORM WITH PRODUCT MANUFACTURERS PERFORMANCE RATINGS PER ASTM E-814 (UL 1479) FIRE TEST AND UL RESPECTIVE CLASSIFICATION FOR FIRESTOPPING.

PENETRATION FIRESTOP FOR METAL PIPE THROUGH GYPSUM BOARD WALL

BUILDING DEPARTMENT NOTES

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
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NEW YORK, NY 10279
tel 212.888.9005

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NEW YORK, NY 10005
tel 212.520.0300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
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NEW YORK, NY 10017
tel 212.697.9588

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GEOTECHNICAL ENGINEER
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tel 646.388.9928

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tel 201.825.2922

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NEW YORK, NY 10016
tel 212.689.5389

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TRACE POOL DESIGN
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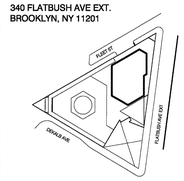

SITE DIAGRAM

07/15/16 DOB FILING SET
04/01/16 PD & BOE DOB FILING SET

DATE ISSUE | NO. DATE REVISION

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DRAWING TITLE

HVAC DETAIL SHEET NO. 4

SEAL & SIGNATURE

STATE OF NEW YORK JAMES LEVENTHAL 087114 LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	15466.0
DRAWN BY	DA
CHECKED BY	JL
DOB NO.	320914338

DRAWING NUMBER

M-603.00

14 JULY 2016

DEPT OF BLDGS 320914338 Job Number
E350061766950 Scan Code

DRAWING LIST

	DRAWING No.	DRAWING NAME	ISSUE DATES: 4/21/2016 FO & SOE DOB FILING SET	7/15/2016 DOB FILING SET
1	P-001.00	PLUMBING COVER SHEET, NOTES & ABBREVIATIONS	●	●
2	P-098.00	PLUMBING FLOOR PLAN – UNDERGROUND	●	●
3	P-099.00	PLUMBING FLOOR PLAN – SUB CELLAR	●	●
4	P-100.00	PLUMBING FLOOR PLAN – CELLAR	●	●
5	P-101.00	PLUMBING FLOOR PLAN – LEVEL 01	●	●
6	P-102.00	PLUMBING FLOOR PLAN – LEVEL 02	●	●
7	P-103.00	PLUMBING FLOOR PLAN – LEVEL 03	●	●
8	P-104.00	PLUMBING FLOOR PLAN – LEVEL 04	●	●
9	P-105.00	PLUMBING FLOOR PLAN – LEVEL 05	●	●
10	P-106.00	PLUMBING FLOOR PLAN – LEVEL 06		●
11	P-107.00	PLUMBING FLOOR PLAN – LEVEL 07 MECHANICAL	●	●
12	P-108.00	PLUMBING FLOOR PLAN – LEVEL 08 (TYP. 08–14)		●
13	P-115.00	PLUMBING FLOOR PLAN – LEVEL 15 (TYP. 15–21)	●	●
14	P-122.00	PLUMBING FLOOR PLAN – LEVEL 22 (TYP. 22–26)		●
15	P-127.00	PLUMBING FLOOR PLAN – LEVEL 27 MECHANICAL		●
16	P-128.00	PLUMBING FLOOR PLAN – LEVEL 27 MEZZANINE MECHANICAL	●	●
17	P-129.00	PLUMBING FLOOR PLAN – LEVEL 28 (TYP. 28–33)		●
18	P-134.00	PLUMBING FLOOR PLAN – LEVEL 34 (TYP. 34–39)		●
19	P-140.00	PLUMBING FLOOR PLAN – LEVEL 40 (TYP. 40–44)		●
20	P-145.00	PLUMBING FLOOR PLAN – LEVEL 45 (TYP. 45–48)	●	●
21	P-149.00	PLUMBING FLOOR PLAN – LEVEL 49 MECHANICAL	●	●
22	P-150.00	PLUMBING FLOOR PLAN – LEVEL 50 MECHANICAL/ WINDBREAK		●
23	P-151.00	PLUMBING FLOOR PLAN – LEVEL 51 (TYP. 51–55)		●
24	P-156.00	PLUMBING FLOOR PLAN – LEVEL 56 (TYP. 56–60)		●
25	P-161.00	PLUMBING FLOOR PLAN – LEVEL 61 (TYP. 61–64)	●	●
26	P-165.00	PLUMBING FLOOR PLAN – LEVEL 65 MECHANICAL/ WINDBREAK	●	●
27	P-166.00	PLUMBING FLOOR PLAN – LEVEL 66 (TYP. 66–69)		●
28	P-170.00	PLUMBING FLOOR PLAN – LEVEL 70 (TYP. 70–71)		●
29	P-172.00	PLUMBING FLOOR PLAN – LEVEL 72 MECHANICAL	●	●
30	P-173.00	PLUMBING FLOOR PLAN – LEVEL 72 + 16'	●	●
31	P-174.00	PLUMBING FLOOR PLAN – LEVEL 72 + 32'	●	●
32	P-175.00	PLUMBING FLOOR PLAN – ROOF	●	●
33	P-176.00	PLUMBING FLOOR PLAN – ROOF + 48'		●
34	P-400.00	PLUMBING DOMESTIC WATER RISER DIAGRAM SHEET No. 1		●
35	P-401.00	PLUMBING DOMESTIC WATER RISER DIAGRAM SHEET No. 2	●	●
36	P-402.00	PLUMBING DOMESTIC WATER RISER DIAGRAM SHEET No. 3	●	●
37	P-403.00	PLUMBING SANITARY RISER DIAGRAM SHEET No. 1	●	●
38	P-404.00	PLUMBING SANITARY RISER DIAGRAM SHEET No. 2	●	●
39	P-405.00	PLUMBING SANITARY RISER DIAGRAM SHEET No. 3	●	●
40	P-406.00	PLUMBING SANITARY RISER DIAGRAM SHEET No. 4	●	●
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42	P-408.00	PLUMBING GAS RISER DIAGRAM SHEET	●	●
43	P-500.00	PLUMBING SCHEDULE SHEET	●	●
44	P-600.00	PLUMBING DETAIL SHEET		●
45	P-700.00	PLUMBING PART PLANS SHEET	●	●

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
2. EXISTING PIPING WHERE SHOWN FOR VARIOUS SYSTEMS IS DIAGRAMMATIC ONLY.
3. BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE BUILDING OF THE PRESENT INSTALLATIONS, INCLUDING LOCATIONS, SIZES, AND ELEVATIONS OF PIPING, TO WHICH CONNECTIONS MUST BE MADE OR WHICH MUST BE CHANGED OR ALTERED. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER. AND NO CONSIDERATION WILL BE GRANTED BY REASON OF LACK OF FAMILIARITY ON THE PART OF THE CONTRACTOR WITH ACTUAL PHYSICAL CONDITIONS AT THE SITE.
4. INSTALL ALL WORK IN FULL ACCORDANCE WITH THE REQUIREMENTS OF ALL LOCAL AND GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION OVER THESE MATTERS, AS WELL AS WITH ANY REQUIREMENTS OF THE NFPA, UL, AND OTHER APPLICABLE CODES. SECURE AND PAY FOR NECESSARY APPROVALS, PERMITS, INSPECTIONS, ETC., AND DELIVER THE OFFICIAL RECORDS OF THE GRANTING OF PERMITS TO THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.
5. PREPARE AND SUBMIT FOR APPROVAL MANUFACTURER'S SHOP DRAWINGS AND DATA FOR EQUIPMENT, AND DETAILED DRAWINGS OF ALL PLUMBING WORK.
6. KEEP AN ACCURATE RECORD ON ALL DEVIATIONS BETWEEN WORK SHOWN ON DRAWINGS AND THAT WHICH IS ACTUALLY PERFORMED.
7. COORDINATE FINAL FLOOR DRAIN LOCATIONS WITH ARCHITECT FOR EXACT DIMENSIONAL LOCATIONS WITHIN THE ROOMS CONTAINING DRAINS.

NEW YORK CITY PLUMBING NOTES

THE PLUMBING SYSTEMS (SANITARY, WASTE, VENT, & WATER DISTRIBUTION) AND ALL ASSOCIATED EQUIPMENT WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FULL REQUIREMENTS OF THE 2014 BUILDING CODE OF THE CITY OF NEW YORK AND THE 2014 PLUMBING CODE OF THE CITY OF NEW YORK.

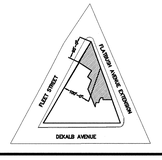
1. THE SANITARY SYSTEM SHALL BE PROVIDED IN FULL ACCORDANCE WITH THE GENERAL PROVISIONS OF SECTION PC 701.
2. THE MATERIALS USED IN THE PLUMBING SYSTEM WILL BE PROVIDED IN FULL ACCORDANCE WITH SECTION PC 303.
3. EQUIPMENT HOOK-UP AND THE JOINING OF PIPING WILL BE IN FULL COMPLIANCE WITH CHAPTER 4.
4. THE INSTALLATION OF FIXTURES WILL BE IN FULL ACCORDANCE WITH CHAPTER 4.
5. TRAPS FOR FIXTURES AND DRAIN LINES WILL BE PROVIDED IN FULL COMPLIANCE WITH CHAPTER 10 AND CLEANOUTS INSTALLED IN FULL COMPLIANCE WITH CHAPTER 7.
6. VERTICAL AND HORIZONTAL PIPING WILL BE HUNG AND SUPPORTED AS DIRECTED IN SPECIFICATIONS AND WITH SECTION PC 308.
7. THE WATER SUPPLY SYSTEMS OF THE SUBJECT BUILDING SHALL BE INSTALLED AND MAINTAINED IN FULL COMPLIANCE WITH CHAPTER 6.
8. THE SANITARY DRAINAGE SYSTEM WILL BE SIZED AND INSTALLED IN FULL COMPLIANCE WITH SECTIONS PC 709 AND PC 710.
9. THE VENT PIPING FOR THE SANITARY DRAINAGE SYSTEM OF THE SUBJECT BUILDING WILL BE INSTALLED IN FULL COMPLIANCE WITH CHAPTER 9.
10. ALL TRENCHING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC 306.
11. RODENT PROOFING SHALL BE IN ACCORDANCE WITH SECTION PC 304.
12. TEMPORARY TOILET FACILITIES SHALL BE PROVIDED FOR WORKMAN AS PER SECTION PC 311.

NYC DOB SPECIAL INSPECTION NOTES

1. AN INDEPENDENT SPECIAL INSPECTOR SHALL BE RETAINED TO PERFORM SPECIAL INSPECTIONS AS WELL AS FILE FORM TR-1 FOR PLUMBING SYSTEM DESIGN AS DOCUMENTED ON THESE PLANS IN ACCORDANCE WITH THE NYC BUILDING CODE.
2. SPECIAL INSPECTION REQUIRED FOR PRIVATE ON-SITE STORM WATER DRAINAGE DISPOSAL SYSTEMS & DETENTION FACILITIES PER 2014 NYCBC 1704.21.2
3. SPECIAL INSPECTION REQUIRED FOR FIRE-RESISTANT PENETRATIONS AND JOINTS PER 2014 NYCBC 1704.27.
4. SPECIAL INSPECTION REQUIRED FOR POST-INSTALLED ANCHORS PER 2014 NYCBC 1704.32.

PLOT PLAN & ZONING DATA

PROJECT ADDRESS: 9 DEKALB AVENUE
TAX BLOCK: 149
TAX LOT: 100



ABBREVIATION SCHEDULE

A	AIR	FHR	FIRE HOSE RACK	O2	OXYGEN
ABD	AUTOMATIC BALL DRIP	FHV	FIRE HOSE VALVE	OVHD	OVERHEAD
AD	AREA DRAIN	FIN	FINISH(ED)		
ADJ.	ADJUSTABLE	FIN.FL	FINISH(ED) FLOOR	P	PNEUMATIC
AFF	ABOVE FINISHED FLOOR	FIN.GR	FINISHED GRADE	P-1 & P-1A	WATER CLOSET
AFP	AUTOMATIC FIRE PUMP	FL	FLOOR	P-3 & P-3A	LAVATORY
AFPH	ANTI-FREEZE POST HYDRANT	FPRF	FIREPROOFING	P-5	SHOWER
AFWH	ANTI-FREEZE WALL HYDRANT	FPSC	FIREPROOF SELF CLOSING	P-6 & P-6A	DRINKING FOUNTAIN
AI	AIR INTAKE	FS	FIRE SERVICE PIPE	PA	PREACTION
AP	ACCESS PANEL	FSK	FLOOR SINK	PAN.	PANEL
Ar	ARGON	FSP	FIRE STANDPIPE	PAV	PREACTION VALVE
@	AT	FT	FOOT, FEET	PD	PLAZA DRAIN
AUTO	AUTOMATIC	FTG	FITTING	PE	PASSENGER ELEVATOR
AV	ACID VENT	FXT	FIXTURE	PERF	PERFORATED
AW	ACID WASTE			PL	PLATE
		G	GAS (LOW PRESSURE)	PLAS	PLASTER
BFP	BACKFLOW PREVENTER	GA	GAUGE	PLBG	PLUMBING
BLDG	BUILDING	GAL	GALLONS	PO	PLUGGED OUTLET
BLKHD	BULKHEAD	GALV	GALVANIZED	POL	POLISH(ED)
BMS	BUILDING MANAGEMENT SYSTEM	GC	GENERAL CONTRACTING	PR	PAIR
BOP	BOTTOM OF PIPE	GD	GARAGE DRAIN	PRV	PRESSURE REDUCING VALVE
BOT	BOTTOM	GEN	GENERAL	PSI	POUNDS PER SQUARE INCH
BR	BRANCH	G(HP)	GAS (HIGH PRESSURE)	PTN	PARTITION
BSMT	BASEMENT	G(MP)	GAS (MEDIUM PRESSURE)	PVC	POLYVINYL CHLORIDE
BW	BLACK WATER	GR	GREASE		
BWV	BLACK WATER VENT	GRD	GRADE	RA	RETURN AIR
BWW	BLACK WATER WASTE	GT	GRAVITY TANK	RCV	RISER CONTROL VALVE
		GV	GAS VENT	RD	ROOF DRAIN
CAB	CABINET	GW	GRAY WATER	REFR	REFRIGERATOR
CB	CATCH BASIN	GWV	GRAY WATER VENT	REINF	REINFORCED
CEM	CEMENT(ITIOUS)	GWW	GRAY WATER WASTE	REQ'S	REQUIREMENTS
CF	CUBIC FEET			REV	REVISED
CI	CAST IRON	HB	HOSE BIBB	RM	ROOM
CLG	CEILING	HC	HANDICAPPED	RO	REVERSE OSMOSIS
CLOS	CLOSET	He	HELIUM	RODI	REVERSE OSMOSIS DEIONISED
CO	CAPPED OUTLET	HGT	HEIGHT	RODIR	REVERSE OSMOSIS DEIONISED RETURN
CO2	CARBON DIOXIDE	HORIZ	HORIZONTAL		
CODP	CLEAN OUT DECK PLATE	HP	HIGH POINT	ROR	REVERSE OSMOSIS RETURN
COL	COLUMN	HR	HOUR	RPDA	REDUSED PRESSURE DETECTOR ASSEMBLY
COMP'T	COMPLIMENT	H2	HYDROGEN		
CONC	CONCRETE	HTG	HEATING)	RPZ	REDUSED PRESSURE ZONE ASSEMBLY
COND	CONDENSATE	HTR	HEATER		
CTPD	COOLING TOWER PUMP DISCHARGE	HVAC	HEATING, VENTILATION & AIR CONDITIONING	RV	RELIEF VALVE
CONF	CONFERENCE				
CORR	CORRIDOR	HW	HOT WATER	S	SOIL, SANITARY
CONST	CONSTRUCTION	HWC	HOT WATER CIRCULATION	SCHED	SCHEDULE
CON'T	CONTINUATION	HWH	HOT WATER HEATER	SD	SUMP DISCHARGE
CONV	CONVECTOR	HZ	HIGH ZONE	SE	SERVICE ELEVATOR
COMP	CLEAN OUT WALL PLATE			SECT	SECTION
CPVC	CHLORINATED POLYVINYL CHLORIDE	ID	INSIDE DIAMETER	SH	SHOWER
CT	COOPER TUBE	IE	INVERT ELEVATION	SHT	SHEET
CTMU	COOLING TOWER MAKE UP	INSUL	INSULATION	SIM	SIMILAR (TO)
CV	CHECK VALVE	IRR	IRRIGATION	SLV	SLEEVE
CW	COLD WATER	IW	INDIRECT WASTE	SPFCA	SPRINKLER FLOW CONTROL ASSEMBLY
CWPD	COLD WATER PUMP DISCHARGE				
CWVO	COLD WATER VALVED OUTLET	JAN	JANITOR	SPO	SANITARY PLUGGED OUTLET
		JAN.CL.	JANITOR'S CLOSET	SPR	SPRINKLER
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY	JP	JOCKEY PUMP	SQ	SQUARE
DCTIRN	DUCTILE IRON	JT	JOINT	SQ.FT.	SQUARE FEET (#)
DCV	DOUBLE CHECK VALVE.			SS	STAINLESS STEEL
DET	DETAIL	L	LEADER	SSP	SPECIAL SERVICE FIRE PUMP
DI	DEIONISED	LAB	LABORATORY	ST	STREET PRESSURE
DIAG	DIAGONAL	LP	LOW POINT	STD	STANDARD
DIAM	DIAMETER	LV	LOCAL VENT (W/BEDPAN WASHERS)	STL	STEEL
DIM	DIMENSION	LVR	LOUVER	STOR	STORAGE
DIR	DEIONISED RETURN	LZ	LOW ZONE	STRUCT	STRUCTURAL
DN	DOWN			SUSP	SUSPENDED
DP	DRY PIPE	MA	MEDICAL AIR	SYMM	SYMMETRICAL
DPV	DRY PIPE VALVE	MACH	MACHINE	TDH	TOTAL DYNAMIC HEAD
DR	DRAIN	MAX	MAXIMUM	TEL	TELEPHONE
DRW	DRINKING WATER	MECH	MECHANICAL	TEMP	TEMPORARY
DW	DISHWASHER	MEMB	MEMBRANE	TER	TERRACE
DWG	DRAWING	MER	MECHANICAL EQUIPMENT ROOM	THRU	THROUGH
DWPD	DOMESTIC WATER PUMP DISCHARGE	MEZZ	MEZZANINE	TOS	TOP OF SLAB
		MFR	MANUFACTURE	TP	TRAP PRIMER
EA.	EACH	MH	MANHOLE	TTB	TIGHT TO BEAM
ED	EJECTOR DISCHARGE	MIN	MINIMUM	TW	TEPID WATER
EL	ELEVATION	MISC	MISCELLANEOUS	TWC	TEPID WATER CIRCULATION
ELEC	ELECTRICAL	MTD	MOUNTED	TYP.	TYPICAL
ELEV	ELEVATOR	MTG	MEETING		
EMER	EMERGENCY	MTL	METAL	UON	UNLESS OTHERWISE NOTED
EMR	ELEVATOR MACHINE ROOM	MV	MEDICAL VACUUM		
ENCL	ENCLOSURE	MZ	MID ZONE	V	VACUUM
ENGNR	ENGINEER			VCO	VALVED, CAPPED OUTLET
ENTR	ENTRANCE	NC	NORMALLY CLOSED	VE	VACUUM EXHAUST
EOS	END/EDGE OF SLAB	NIC	NOT IN CONTRACT	VEX	VENT EXHAUST
EQUIP	EQUIPMENT	No.	NUMBER	VERT	VERTICAL
EXIST	EXISTING	NO	NORMALLY OPEN	VEST	VESTIBULE
EXH	EXHAUST	NOM	NOMINAL	VO	VALVED OUTLET
EXP	EXPRESS	N2	NITROGEN	VPO	VENT PLUGGED OUTLET
EXP. JT.	EXPANSION JOINT	N2O	NITROUS OXIDE	VTR	VENT THRU ROOF
EXT	EXTERIOR	NTS	NOT TO SCALE		
				W	WASTE
F	FIRE	OC	ON CENTER	W/	WITH
FAI	FRESH AIR INTAKE	OD	OVERFLOW DRAIN	WAGD	WASTE ANESTHETIC GAS DISPOSAL
FD	FLOOR DRAIN	OF	OVERFLOW		
FDN	FOUNDATION	OFF	OFFICE	WE	WASTE ANESTHETIC GAS DISPOSAL EXHAUST
FH	FIRE HYDRANT	OPNG	OPENING		
FHC	FIRE HOSE CABINET	OPP	OPPOSITE	WF	WIDE FLANGE
				WH	WALL HYDRANT
				WP	WATERPROOFING
				WPO	WASTE PLUGGED OUTLET

SYMBOLS SCHEDULE

PRIMARY SYSTEMS PIPING

- COLD WATER PIPING
- HOT WATER PIPING
- HOT WATER CIRCULATION PIPING
- 140° HOT WATER PIPING — 140
- 140° HOT WATER CIRCULATION PIPING — 140
- SANITARY PIPING
- VENT PIPING
- LOW PRESSURE NATURAL GAS PIPING — G
- MEDIUM PRESSURE NATURAL GAS PIPING — G(MP)
- HIGH PRESSURE NATURAL GAS PIPING — G(HP)
- NATURAL GAS VENT PIPING — GV
- STORM PIPING — L
- STORM OVERFLOW PIPING — OF
- PUMP DISCHARGE PIPING — CWPD

VALVES

- CHECK VALVE
- CHECK VALVE W/BALL DRIP
- VALVE ON HORIZONTAL PIPE (NORMALLY OPEN)
- VALVE ON HORIZONTAL PIPE (NORMALLY CLOSED)
- VALVE ON VERTICAL PIPE
- OS&Y VALVE ON HORIZONTAL PIPE
- OS&Y VALVE ON VERTICAL PIPE
- 3-WAY VALVE
- 3-WAY VALVE SOLENOID
- 2-WAY VALVE SOLENOID
- 2-WAY VALVE MOTORISED
- GAS VALVE
- CHECK VALVE W/ VACUUM BREAKER ASSEMBLY
- PRESSURE RELIEF VALVE
- ZONE CHECK VALVE ASSEMBLY
- ZONE DOUBLE CHECK VALVE ASSEMBLY
- DOUBLE CHECK VALVE — DCV
- REDUCED PRESSURE ZONE VALVE — RPZ

PIPING SYSTEM COMPONENTS COMMON SYMBOLS

- PIPE SLEEVE
- PIPE TURNING UP
- PIPE TURNING DOWN
- PIPE TAP
- CAPPED PIPE
- PIPE BREAK
- VACUUM BREAKER
- HOSE BIBB
- PIPE CLEANOUT OPENING
- PIPE RUNNING TRAP (ON RISERS)
- PIPE RUNNING TRAP (ON PLANS)
- PIPE RUNNING TRAP W/SINGLE CLEAN OUT(ON PLANS)
- PIPE RUNNING TRAP W/SINGLE CLEAN OUT(ON RISERS)
- PIPE RUNNING TRAP W/DOUBLE CLEAN OUT(ON PLANS)
- PIPE RUNNING TRAP W/DOUBLE CLEAN OUT(ON RISERS)
- PIPE RUNNING TRAP W/SINGLE CLEAN OUT EXTENDED TO CODP (ON RISERS)
- CLEANOUT DECK PLATE FLOOR/ ROOF/ AREA OR PLENUM DRAIN

COMMON EQUIPMENT SYMBOLS

- GAS BOOSTER
- GAS METER
- DOMESTIC HOT WATER HEATER
- PNEUMATIC TANK
- END SUCTION PUMP
- SPLIT CASE PUMP
- IN LINE MOUNTED PUMP
- WATER METER — M
- DOUBLE SUMP SUCTION PUMP (ON PLANS)
- DOUBLE SUMP SUCTION PUMP (ON RISER)

ANNOTATION SYMBOLS

- CW, HW, SAN, HWR RISER LABEL — P
- STORM LEADER RISER LABEL — L
- GAS RISER LABEL — G
- GRAY WATER, VENT, WASTE RISER LABEL — GW
- ACID WASTE RISER LABEL — AW
- REVERSE OSMOSIS WATER RISER LABEL — RO
- MEDICAL GAS RISER LABEL — H2
- SECTION/ DETAIL REFERENCE — P
- CENTER LINE SYMBOL — ℄
- DIRECTION OF LIQUID FLOW
- DIRECTION OF PUMPED LIQUID FLOW
- POINT OF CONNECTION NEW WORK TO EXISTING

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.625.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
329 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9000

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.667.9998

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 8TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9658

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.665.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.665.0946

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768.8040

BOLD

LIGHTING
BOLD
227 WEST 27TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

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ENTEK ENGINEERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.883.2920

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
600 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.211.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10016
tel 212.683.5399

BURO HAPPOLD ENGINEERING

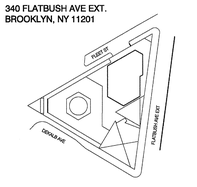
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2035

TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.455.4350

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET
04/21/16 FO & SOE DOB FILING SET

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DRAWING TITLE

PLUMBING
COVER SHEET, NOTES, & ABBREVIATIONS

SEAL & SIGNATURE

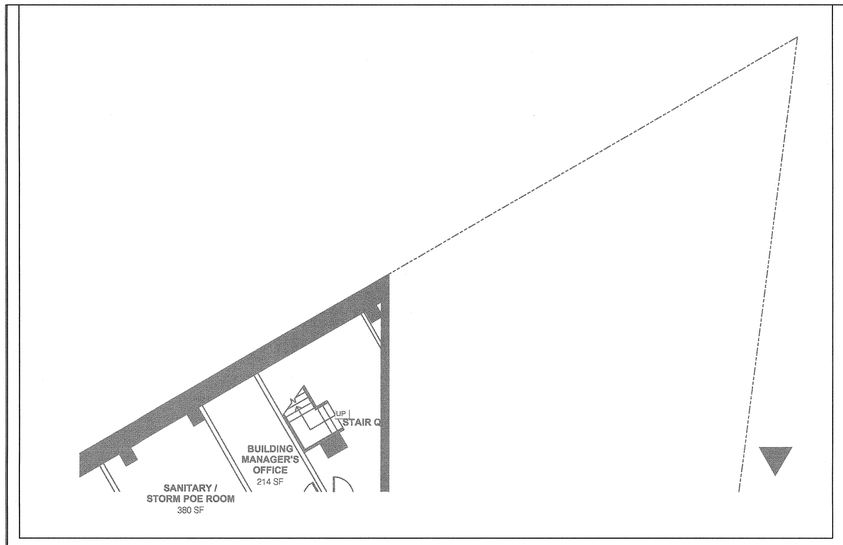
STATE OF NEW YORK — 027113 — LICENSED PROFESSIONAL ENGINEER

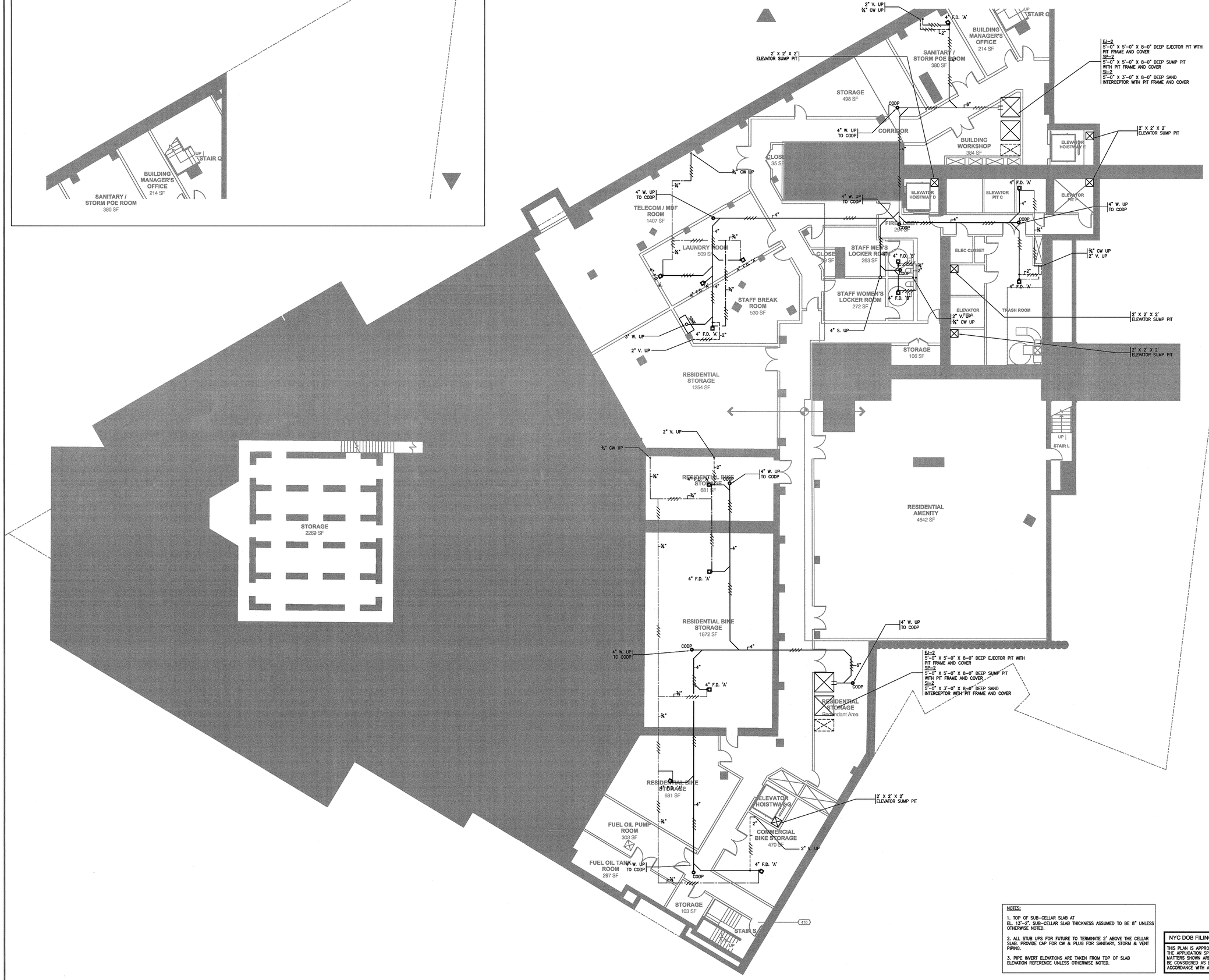
DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338

DRAWING NUMBER
P-001.00

14 JULY, 2016

DEPT OF BLDGS 320914338 Job Number
ES1003309345 Scan Code





NOTES:

1. TOP OF SUB-CELLAR SLAB AT EL. 13'-2". SUB-CELLAR SLAB THICKNESS ASSUMED TO BE 8" UNLESS OTHERWISE NOTED.

2. ALL STUB UPS FOR FUTURE TO TERMINATE 2' ABOVE THE CELLAR SLAB. PROVIDE CAP FOR CW & PLUG FOR SANITARY, STORM & VENT PIPING.

3. PIPE INVERT ELEVATIONS ARE TAKEN FROM TOP OF SLAB ELEVATION REFERENCE UNLESS OTHERWISE NOTED.

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.805.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 17TH FLOOR
NEW YORK, NY 10279
tel 212.868.0005

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.8900

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9998

GEOTECHNICAL ENGINEER
MRCE
333 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
130 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7900

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.690.0946

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.758-9340

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.0400

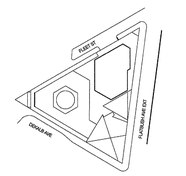
BMU ENGINEER
ENTEK ENGINEERING
168 AVES STREET
MADISON,NJ 07940
tel 201.820.2802

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
600 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.211.1000

BUILDING ENERGY
VIDARIS
369 FIFTH AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.3535

POOL
TRACE POOL DESIGN
220 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.455.4350



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NO.	DATE	REVISION

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DRAWING TITLE

PLUMBING FLOOR PLAN - UNDERGROUND

SEAL & SIGNATURE

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338
DRAWING NUMBER	P-098.00

DEPT OF BLDGS 320914338 Job Number
E344466360585 Scan Code

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.605.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 29TH ST. 11TH FLOOR
NEW YORK, NY 10070
tel 212.888.9000

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.5900

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.667.9568

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9509

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
150 SADLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.605.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7900

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INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.665.0646

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.759.6340

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6800

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.319.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
168 HAMILTON STREET
HACKENSACK, NJ 07601
tel 201.820.0800

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
950 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10019
tel 212.211.7000

VIDARIS

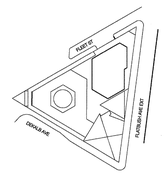
BUILDING ENERGY
VIDARIS
350 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.3325

LOTHOS TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.482.4090



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
04/21/16	FO & SOE DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

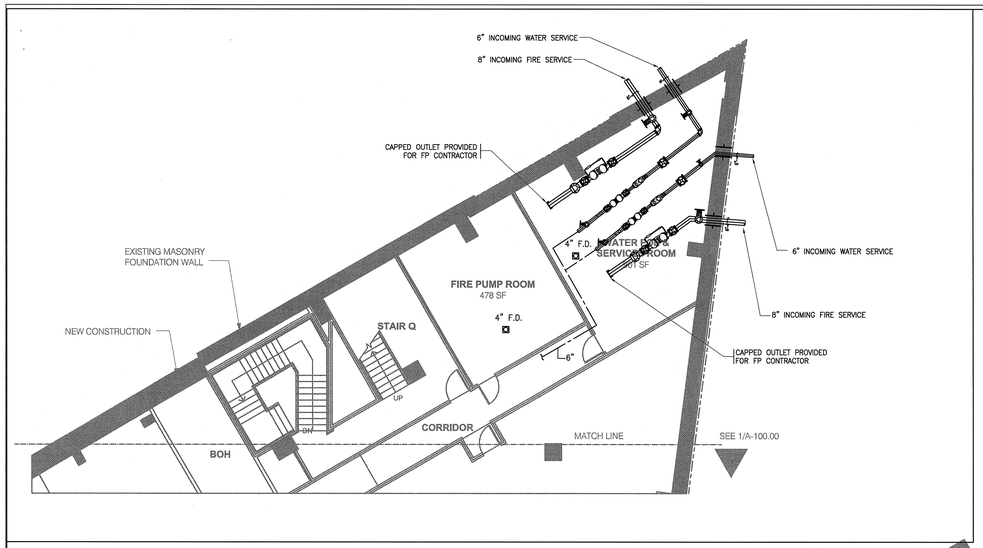
PLUMBING
FLOOR PLAN - SUBCELLAR

SEAL & SIGNATURE

STATE OF NEW YORK · DENNIS P. CARR · 087114 · LICENSED PROFESSIONAL ENGINEER

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338
DRAWING NUMBER	P-099.00

DEPT OF BLDGS 320914338 Job Number
E-DRB20320923 Scan Code



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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.661.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
30 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
229 WEST 43TH STREET
NEW YORK, NY 10017
tel 212.687.8858

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 35TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9538

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.655.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7820

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 909
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6020

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 606
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
186 AVES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

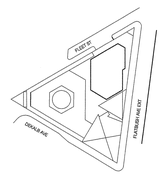
BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 12TH FLOOR
NEW YORK, NY 10016
tel 212.689.3369

BURO HAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.354.3225

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4280



SITE DIAGRAM

07/15/16 DOB FILING SET
04/21/16 FD & SOE DOB FILING SET

DATE ISSUE | NO. DATE REVISION

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DRAWING TITLE

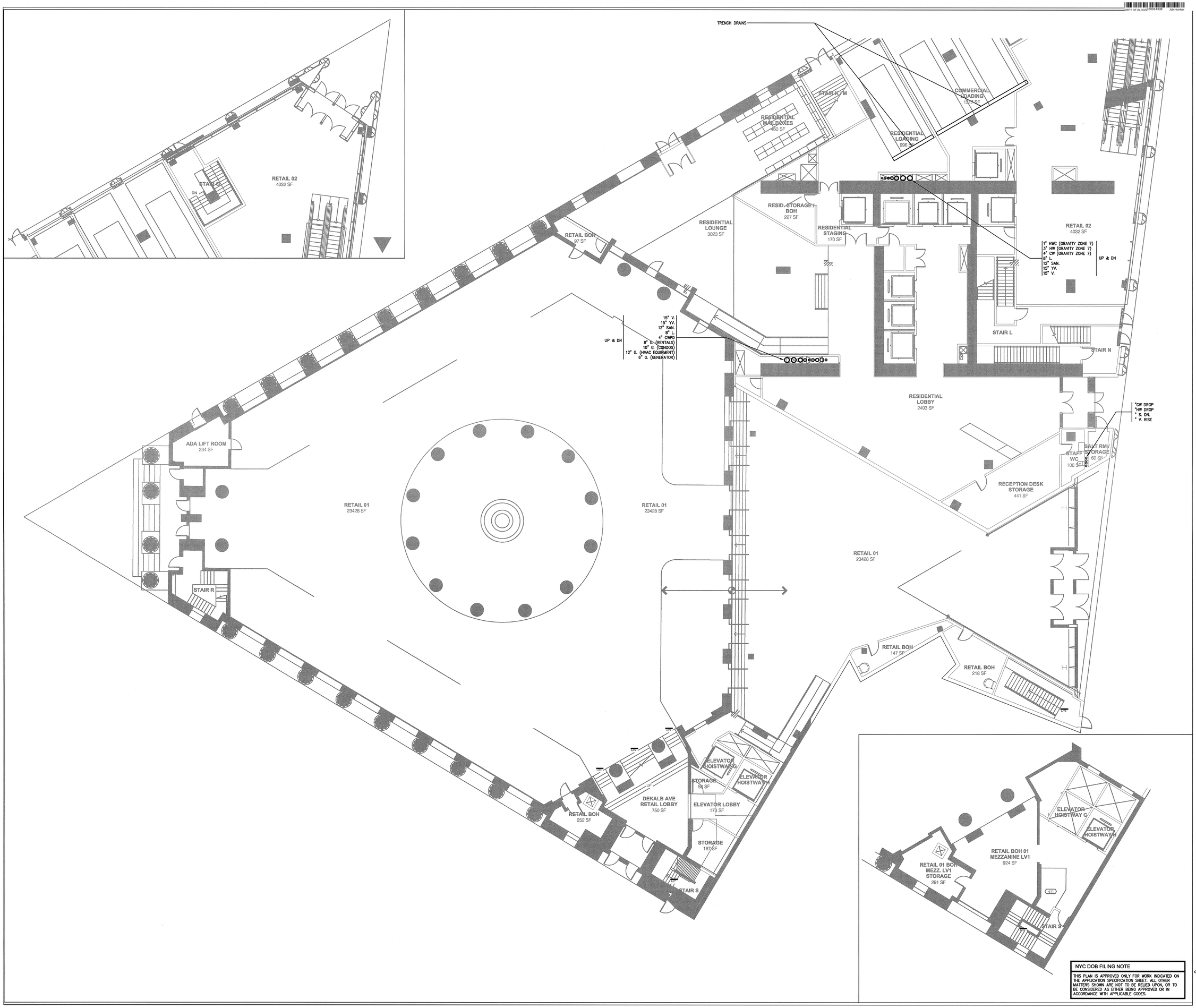
PLUMBING
FLOOR PLAN - CELLAR

SEAL & SIGNATURE

STATE OF NEW YORK JAMES P. LIMA 087114 LICENSED PROFESSIONAL ENGINEER

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338
DRAWING NUMBER	P-100.00

DEPT OF BLDGS 320914338 Job Number
B2016088788 Scan Code



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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.625.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
329 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.6005

JBB JAROS BAUM & BOLLES

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

MEP ENGINEER
JAROS, BAUM & BOLLES
30 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.620.8300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 46TH STREET
NEW YORK, NY 10036
tel 212.697.3998

Mueser Rutledge Consulting Engineers

AKRF

GEOTECHNICAL ENGINEER
MRCE
333 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10002
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

vda

Thornton Tomasetti

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 SINGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

JHPA JAN HIRD POKORNY ASSOCIATES

INTERIORS
GACHOT
394 BROADWAY SUITE 509
NEW YORK, NY 10013
tel 646.695.0846

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768.6540

BOLD

Longman Lindsey

LIGHTING
BOLD
207 WEST 24TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

SIMPSON GUMPERTZ & HEGER

BMU ENGINEER
ENTEK ENGINNERING
149 HAAS STREET
HACKENSACK, NJ 07601
tel 201.820.2802

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

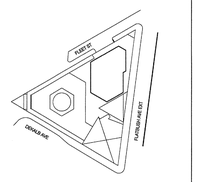
BUROHAPPOLD ENGINEERING

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2026

Lutron TRAILL PDG DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.682.4260



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DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
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DRAWING TITLE

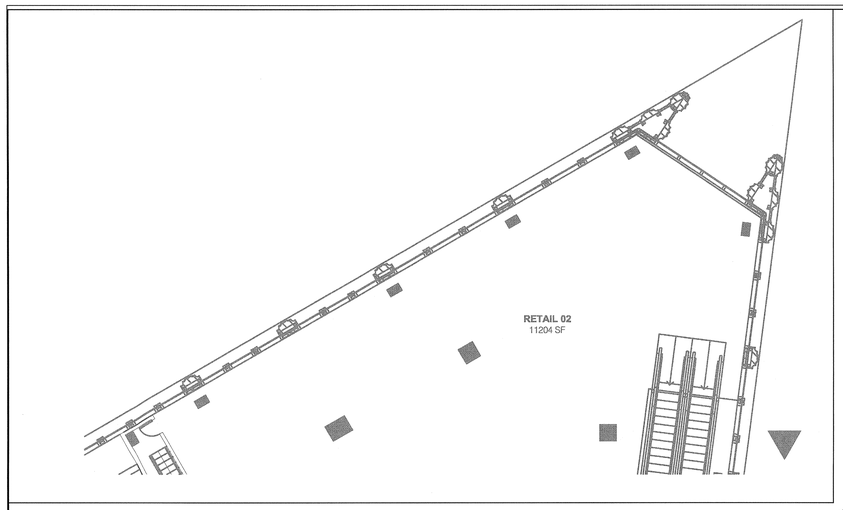
PLUMBING
FLOOR PLAN - LEVEL 01

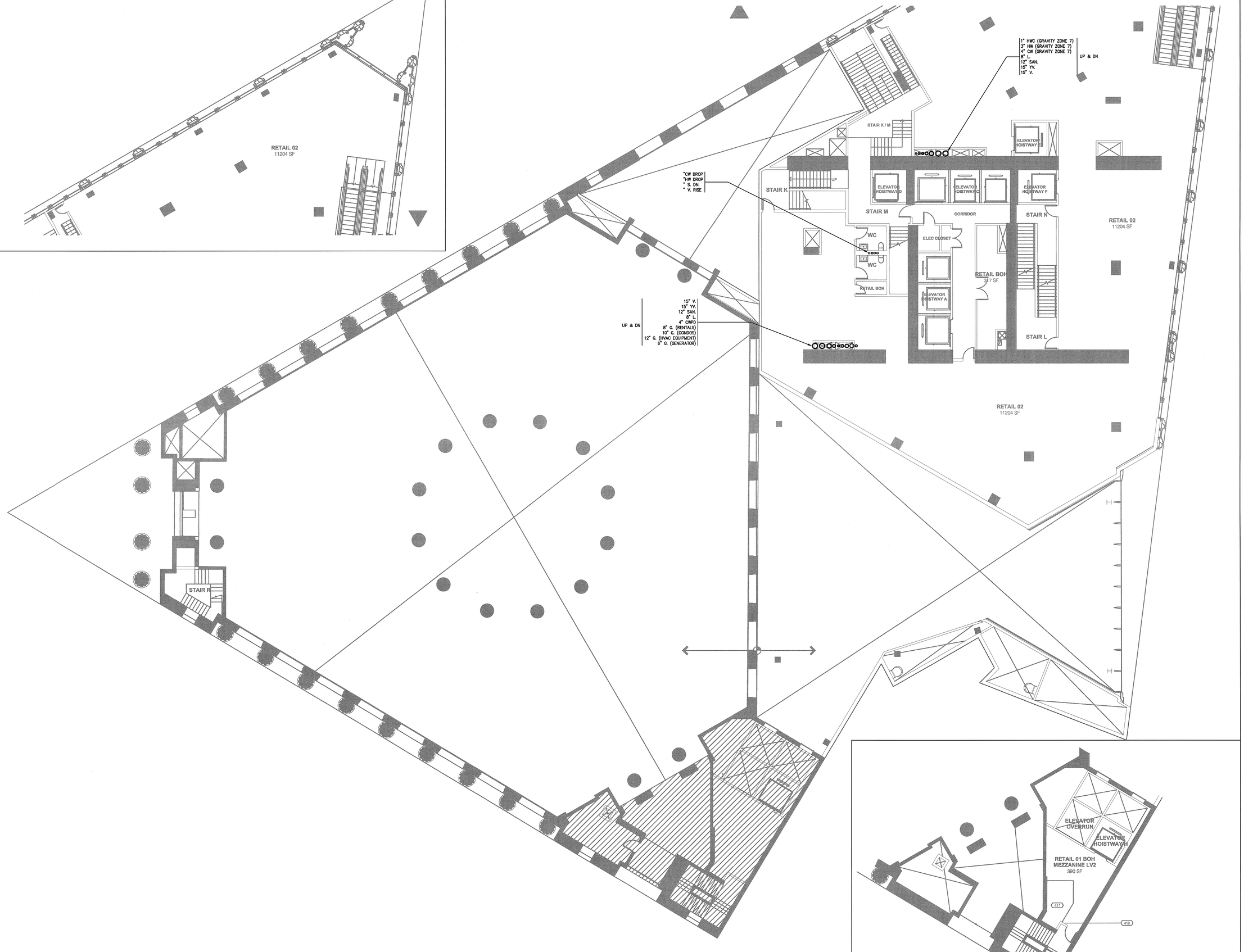
SEAL & SIGNATURE

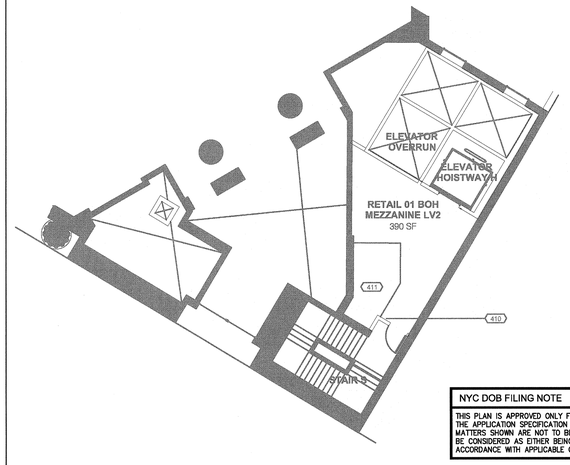
STATE OF NEW YORK — LICENSED PROFESSIONAL ENGINEER — 087114

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338
DRAWING NUMBER	P-101.00

CERT OF BLDG 320914338 Job Number
ESIGNATURE 320914338 Scan Code







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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.825.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.359.9000

JBB JAROS BAUM & BOLLES
WSP CANTOR SEINUK STRUCTURAL ENGINEERS

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.320.6000

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.697.9888

Mueser Rutledge Consulting Engineers
AKRF

GEOTECHNICAL ENGINEER
MRCE
229 WEST 24TH STREET 6TH FLOOR
NEW YORK, NY 10036
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

vda
Thornton Tomasetti

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7850

GACHOT
JHPA JAN HIRD POKORNY ASSOCIATES

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.592.0846

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6540

BOLD
Longman Lindsey

LIGHTING
BOLD
207 WEST 25TH STREET
NEW YORK, NY 10001
tel 212.674.8000

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS
SIMPSON GUMPERTZ & HEGER

BMU ENGINEER
ENTEK ENGINEERING
196 ANDS STREET
HACKENSACK, NJ 07601
tel 201.820.2602

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS
BUROHAPPOLD ENGINEERING

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10016
tel 212.689.5389

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2026

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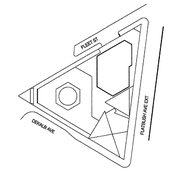
TRACE POOL DESIGN
330 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4290



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DATE	ISSUE	NO.	DATE	REVISION
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DRAWING TITLE

PLUMBING FLOOR PLAN - LEVEL 02

SEAL & SIGNATURE

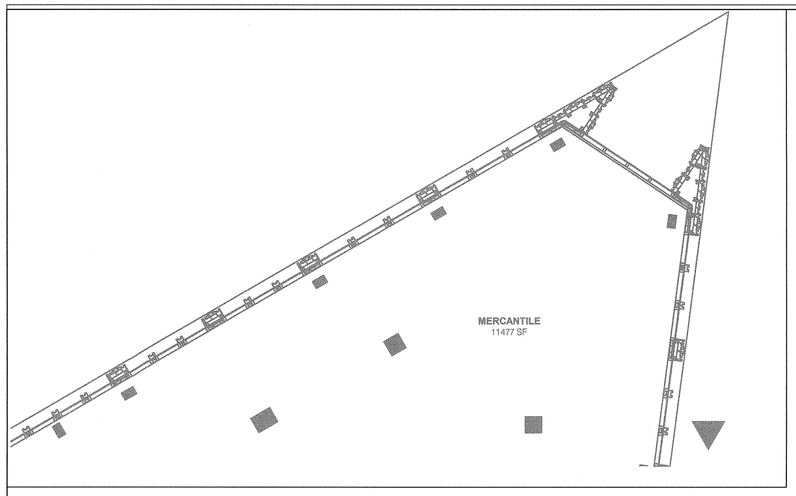
STATE OF NEW YORK — 087114 — LICENSED PROFESSIONAL ENGINEER

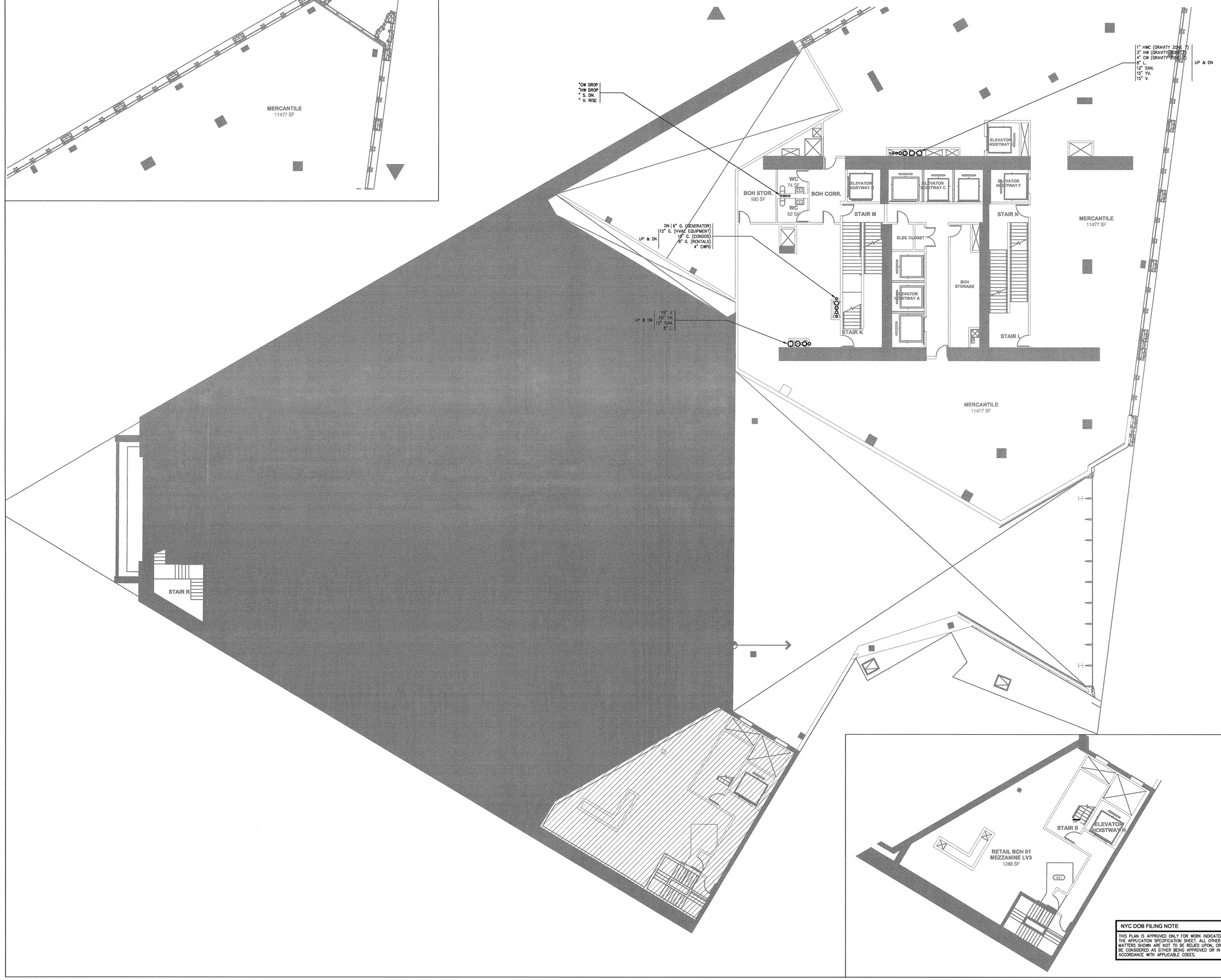
DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338

DRAWING NUMBER

P-102.00

CERT OF BLDGS 320914338 Job Number
E3950833039 Scan Code





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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
329 BROADWAY, 11TH FLOOR
NEW YORK, NY 10079
tel 212.889.6005

JBB JACOB BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.5900

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 60TH STREET
NEW YORK, NY 10017
tel 212.697.6996

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.695.0946

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 15A
NEW YORK, NY 10018
tel 212.768.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
198 AMES STREET
MADDENSACK, NJ 07601
tel 201.800.2902

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
555 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

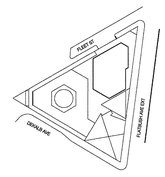
BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BURO HAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.3535

Lothian TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
220 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.455.4290



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07/15/16 DOB FILING SET
04/21/16 FD & SOE DOB FILING SET

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DRAWING TITLE

PLUMBING FLOOR PLAN - LEVEL 03

SEAL & SIGNATURE

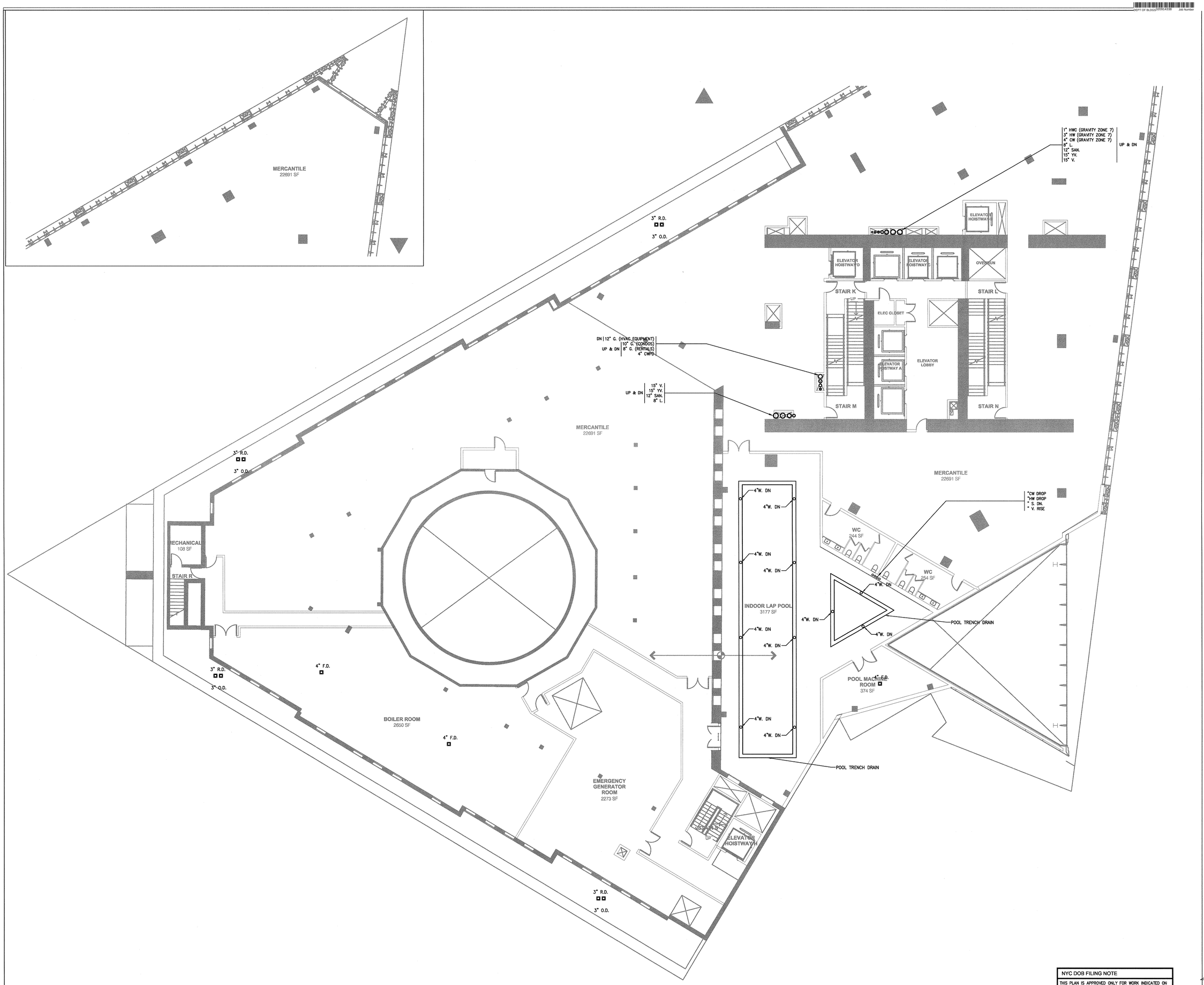
STATE OF NEW YORK JAMES KEVIN CHRISTENSEN 027117 LICENSED PROFESSIONAL ENGINEER

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338

DRAWING NUMBER

P-103.00

DEPT OF BLDGS 320914338 Job Number
E3899532225 Scan Code



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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.605.3640

sh p

ARCHITECT
SHoP ARCHITECTS, P.C.
203 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.620.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10036
tel 212.697.3666

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 35TH STREET 8TH FLOOR
NEW YORK, NY 10120
tel 917.339.9300

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CIVIL ENGINEER
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440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9629

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VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE, SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #10
NEW YORK, NY 10010
tel 917.661.7000

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INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.693.0646

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HISTORIC PRESERVATION
JAMES HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
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tel 212.614.6500

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BMU ENGINEER
ENTEK ENGINNERING
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HACKENSACK, NJ 07601
tel 201.820.2802

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NEW YORK, NY 10019
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10016
tel 212.686.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.834.3535

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330 MEDICI BISTRO AVENUE
WHITE PLAINS, NY 10604
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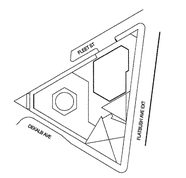

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07/15/16	DOB FILING SET
04/01/16	PC & SOE DOB FILING SET

NO.	DATE	REVISION

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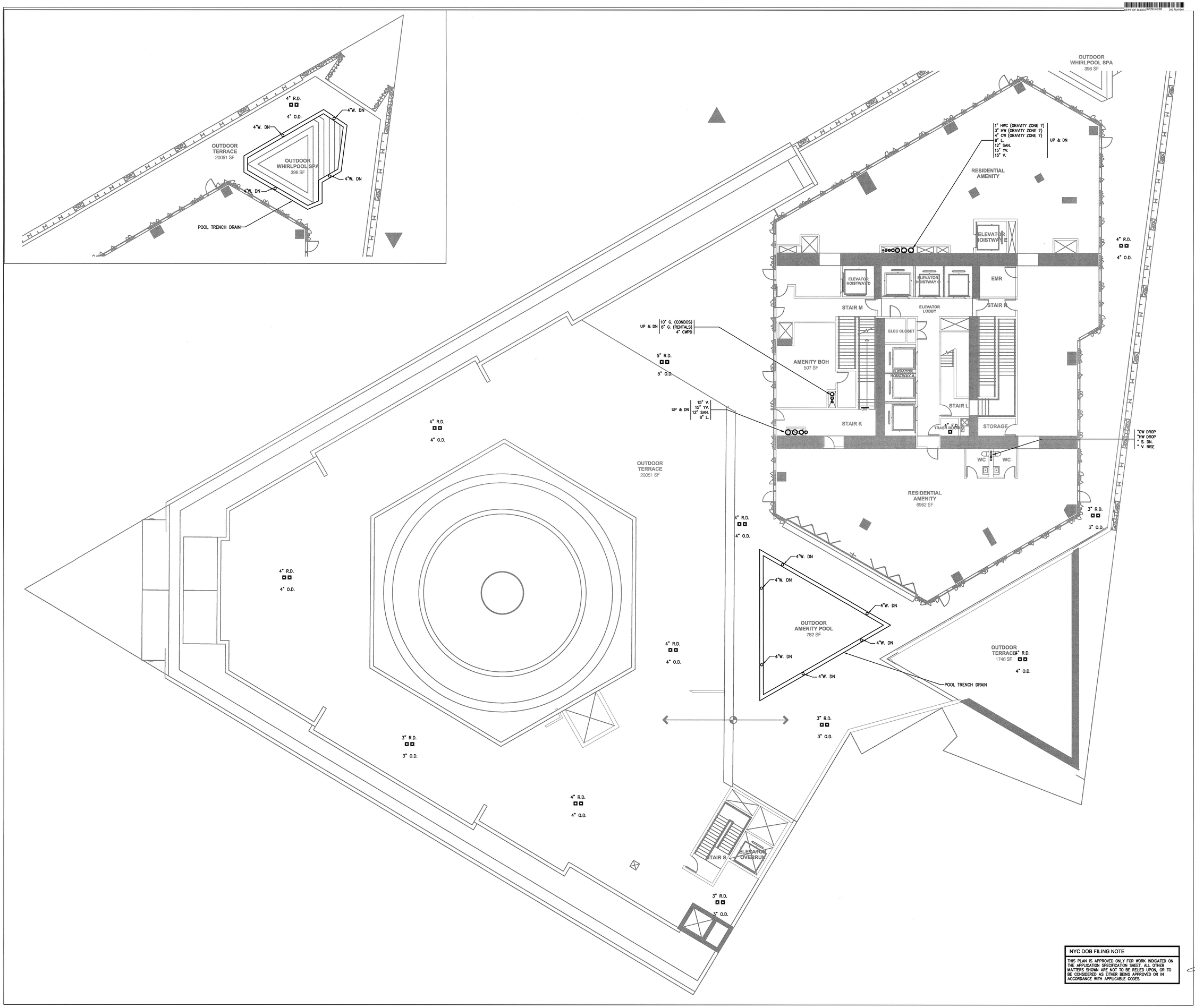
PLUMBING FLOOR PLAN - LEVEL 04

SEAL & SIGNATURE

STATE OF NEW YORK — CHARLES LEE — 087114 — LICENSED PROFESSIONAL ENGINEER

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338
DRAWING NUMBER	P-104.00

CITY OF BLOOD 320914338 Job Number
E3320000M815 Scan Code



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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.825.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
333 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.359.9000

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.320.8000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.607.9988

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 24TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0946

JHPA JANA HIRO POKORNY ASSOCIATES

HISTORIC PRESERVATION
JANA HIRO POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768.6540

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LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.671.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 906
NEW YORK, NY 10018
tel 212.815.6400

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BMU ENGINEER
ENTEK ENGINEERING
188 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2662

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
592 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.211.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 FIFTH AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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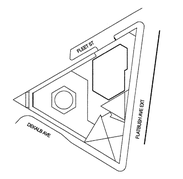
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2020

CONTOUR TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
320 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290



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PLUMBING FLOOR PLAN - LEVEL 05

SEAL & SIGNATURE

STATE OF NEW YORK · JAMES RUBIN · 026711 · LICENSED PROFESSIONAL ENGINEER

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338
DRAWING NUMBER	P-105.00

DEPT OF BLDGS 320914338 Job Number
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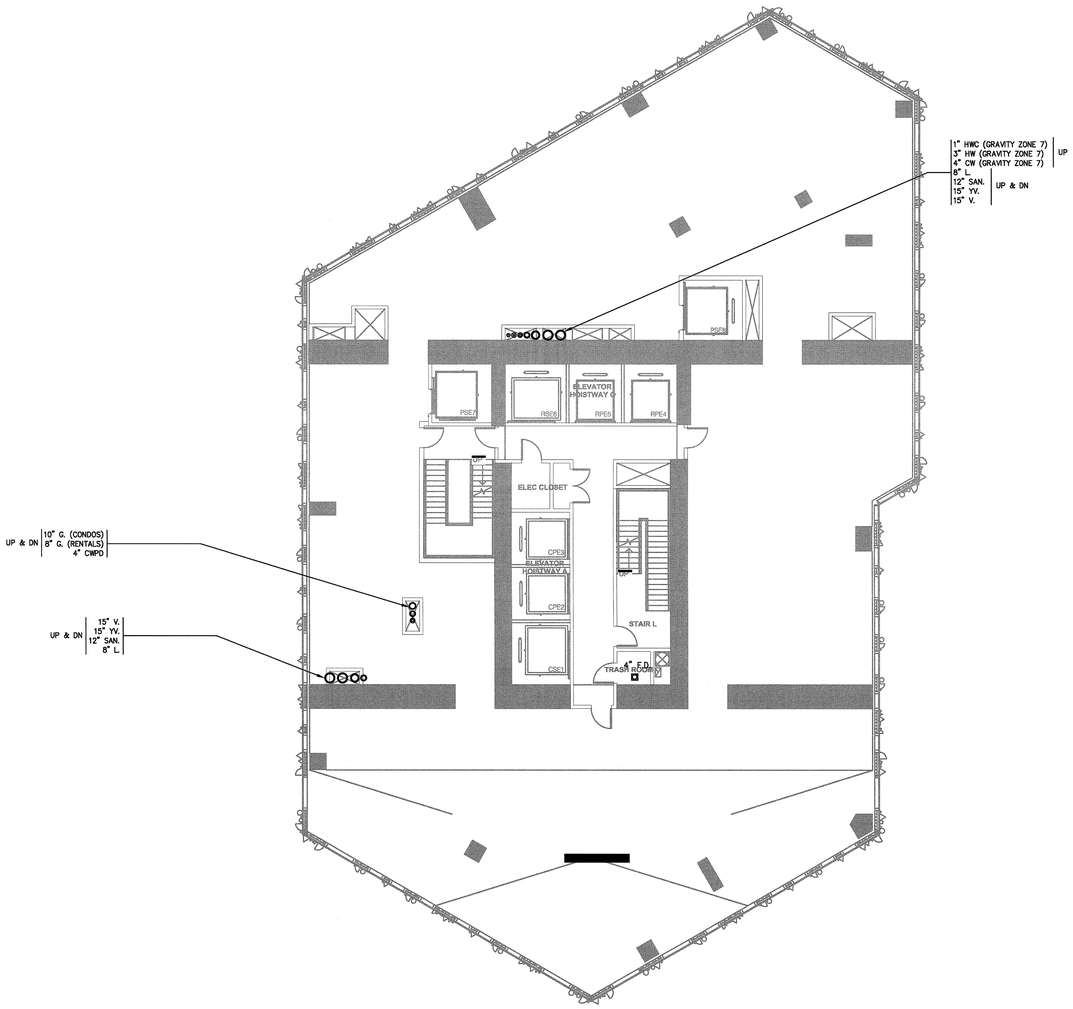

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.825.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
203 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.520.5000

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.957.5566

Mueser Rutledge Consulting Engineers

AKRF

GEOTECHNICAL ENGINEER
MRCE
230 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

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Thornton Tomasetti

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

JHPA JAN HIRD POKORNY ASSOCIATES

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.665.0646

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6540

BOLD

Longman Lindsey

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.8500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

SIMPSON GUMPERTZ & HEGER

BMU ENGINEER
ENTEK ENGINNERING
188 AVES STREET
MORRISBACK, NJ 07601
tel 201.800.2802

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 16TH FLOOR
NEW YORK, NY 10018
tel 212.271.7090

VIDARIS

BUROHAPPOLD ENGINEERING

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10016
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
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330 WATCHESTER AVENUE
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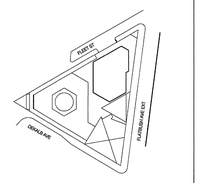

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07/15/16 DOB FILING SET
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PLUMBING
FLOOR PLAN - LEVEL 06

SEAL & SIGNATURE

STATE OF NEW YORK · CRAIG K. CHAMPLIN · 087113 · LICENSED PROFESSIONAL ENGINEER

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338
DRAWING NUMBER	P-106.00

CITY OF BLDGS 320914338 Job Number
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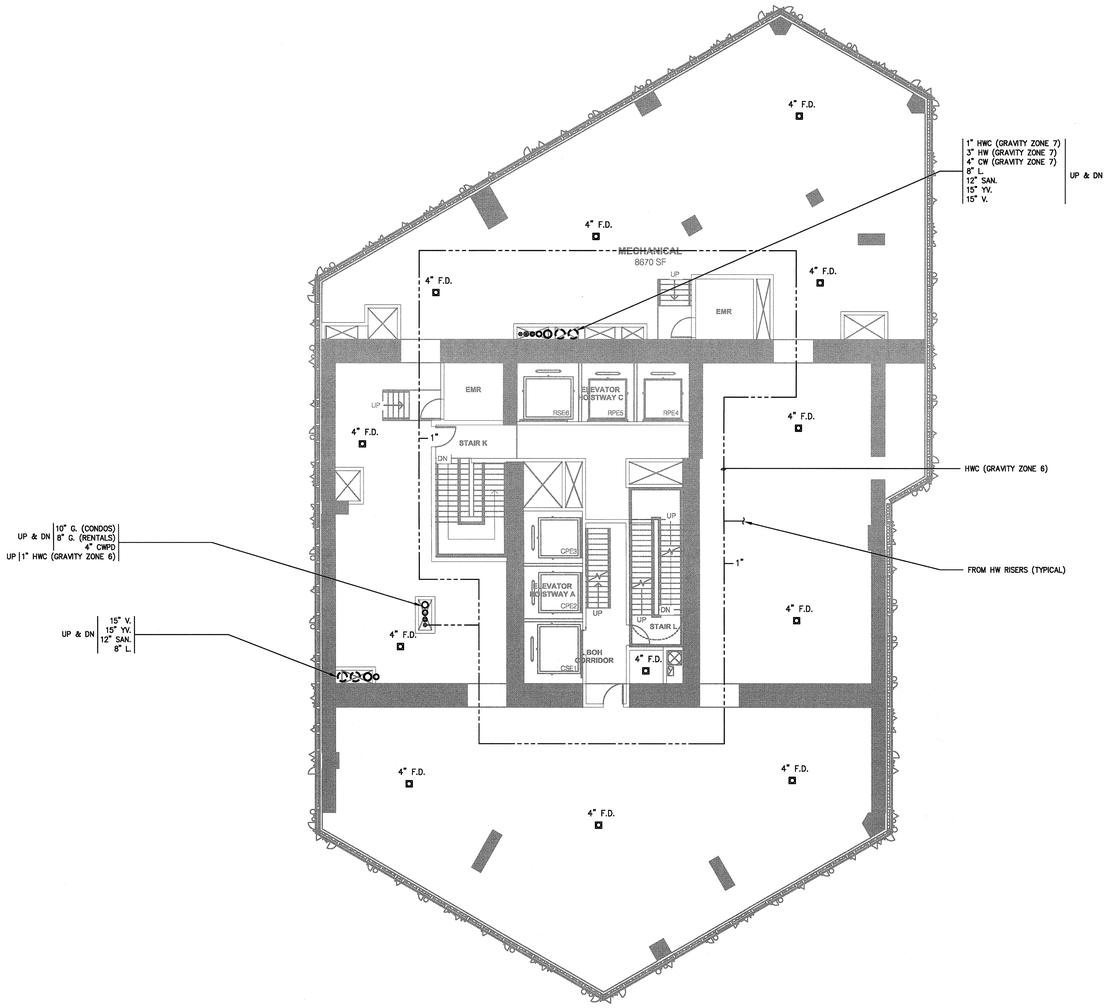

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
329 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.359.9335

JBB JACOB BAUM & BOLLES

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.5900

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 60TH STREET
NEW YORK, NY 10017
tel 212.697.9590

Mueser Rutledge Consulting Engineers

AKRF

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 8TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVA, NJ 07936
tel 646.625.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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JHPA

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.665.0646

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6340

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NEW YORK, NY 10018
tel 212.319.6400

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ENTEK ENGINEERING
196 AXES STREET
HACKENSACK, NJ 07601
tel 201.880.2662

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SIMPSON GUMPERTZ & HEGER
950 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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VIDARIS
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NEW YORK, NY 10010
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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.3026

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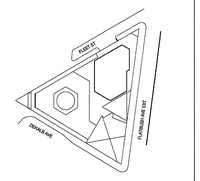

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DRAWING TITLE

PLUMBING FLOOR PLAN - LEVEL 07 MECHANICAL

SEAL & SIGNATURE

STATE OF NEW YORK — LICENSED PROFESSIONAL ENGINEER — 087114

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338

DRAWING NUMBER

P-107.00

DEPT OF BLDGS 320914338 Job Number
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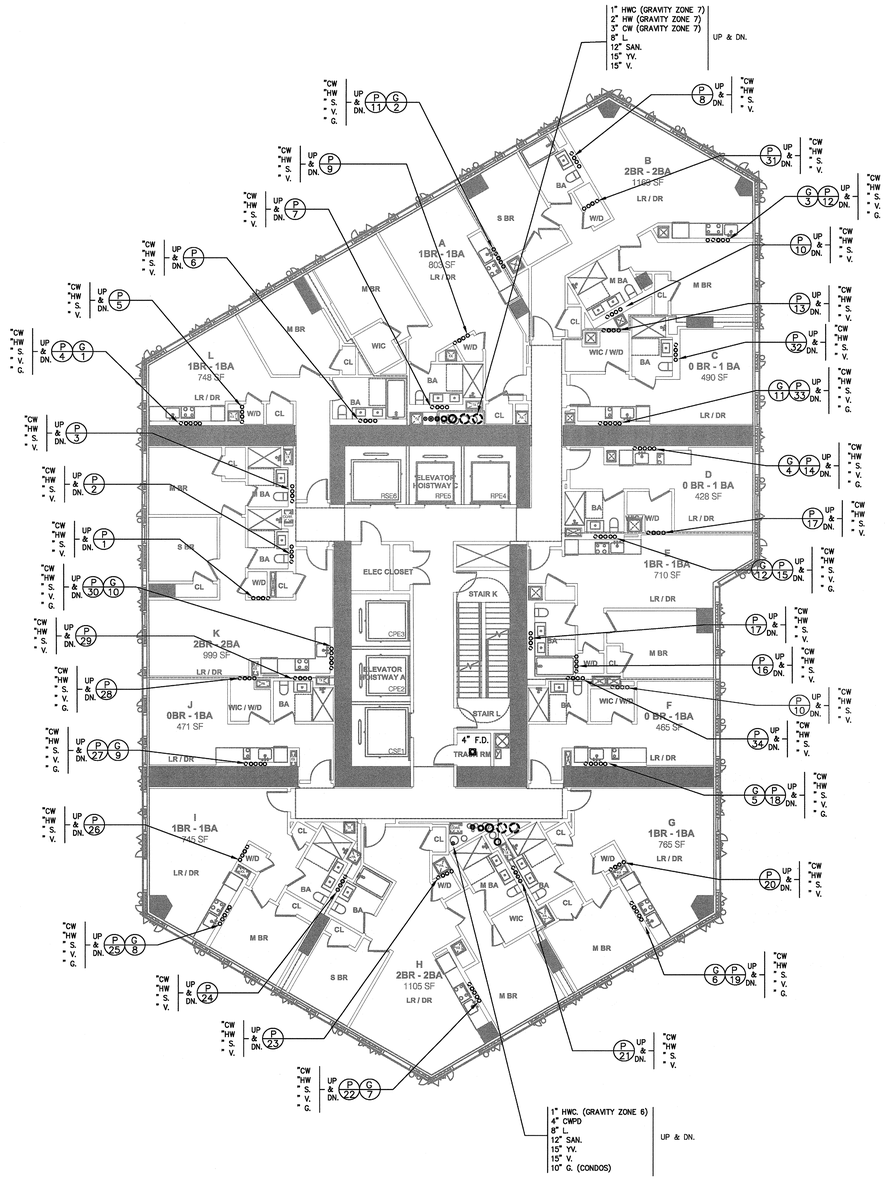

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DEVELOPER
JDS DEVELOPMENT GROUP
106 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10001
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.888.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
85 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.5500

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
229 WEST 36TH STREET
NEW YORK, NY 10017
tel 212.667.3688

Hunter Roberts Construction Group

GEOTECHNICAL ENGINEER
MRCE
233 WEST 39TH STREET 6TH FLOOR
NEW YORK, NY 10018
tel 917.338.6500

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9328

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 DANIELROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.668.0646

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.758-9540

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NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 1508
NEW YORK, NY 10018
tel 212.815.6400

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BMU ENGINEER
ENTEK ENGINEERING
108 AKERS STREET
HACKENSACK, NJ 07601
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10016
tel 212.689.5369

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.3005

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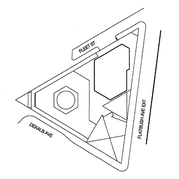
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4350



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DATE	ISSUE	NO.	DATE	REVISION
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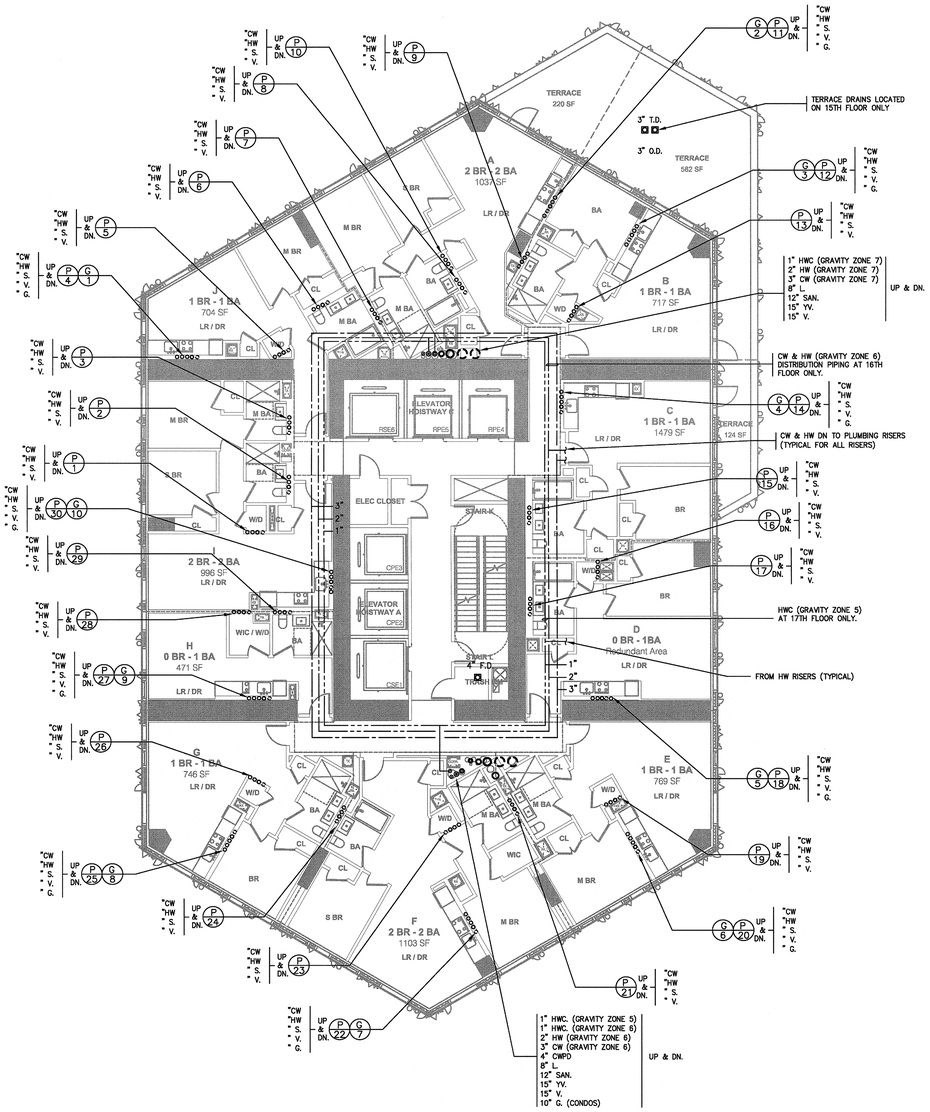
PLUMBING FLOOR PLAN - LEVEL 08 (TYP. 08 - 14)

SEAL & SIGNATURE

STATE OF NEW YORK — THOMAS A. POLLOCK — 082711 — LICENSED PROFESSIONAL ENGINEER

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338
DRAWING NUMBER	P-108.00

DEPT OF BLDGS 320914338 Job Number
ESS2015940B8 Scan Code



DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3940

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.359.9000

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.687.5666

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 8TH FLOOR
NEW YORK, NY 10120
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7660

INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.665.5646

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.718.6040

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.874.6900

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

BMU ENGINEER
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HACKENSACK, NJ 07601
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TRACE POOL DESIGN
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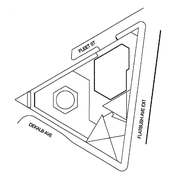
WHITE PLAINS, NY 10604
tel 914.485.4090



SITE DIAGRAM

07/15/16 DOB FILING SET
04/01/16 PD & SCE DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

PLUMBING FLOOR PLAN - LEVEL 15 (TYP. 15 - 21)

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SEAL & SIGNATURE

STATE OF NEW YORK · JAMES S. PAU · 087114 · LICENSED PROFESSIONAL ENGINEER

DATE	07.15.2016
PROJECT NO.	15456.0
DRAWN BY	BR
CHECKED BY	CL
DOB NO.	320914338
DRAWING NUMBER	P-115.00

DEPT OF BLDGS 320914338 Job Number

E350014438 Scan Code

A
2BR - 2BA
1040 SF
LR / DR

B
1BR - 1BA
716 SF
LR / DR

C
1BR - 1BA
722 SF
LR / DR

L
1BR - 1BA
705 SF
LR / DR

K
2BR - 2BA
997 SF
LR / DR

J
0 BR - 1 BA
472 SF
LR / DR

I
0 BR - 1 BA
550 SF
LR / DR

H
2 BR - 2 BA
1119 SF
LR / DR

F
1BR - 1BA
756 SF
LR / DR

G
0 BR - 1 BA
538 SF
LR / DR

BR
M BR
S BR
BA
CL
W/D
WIC / W/D
M BA
ELEVATOR HOISTWAY C
RSE6
RPE5
RPE4
ELEC CLOSET
STAIR K
STAIR L
ELEVATOR HOISTWAY A
CPE3
CPE2
CSE1
4" F.D. TRASH CHUTE
TERRACE
172 SF
TERRACE
234 SF

"CW "HW " S. " V. UP & DN. P 9
"CW "HW " S. " V. UP & DN. P 10
"CW "HW " S. " V. UP & DN. P 8
"CW "HW " S. " V. UP & DN. P 7
"CW "HW " S. " V. UP & DN. P 6
"CW "HW " S. " V. UP & DN. P 5
"CW "HW " S. " V. " G. UP & DN. P 4 G 1
"CW "HW " S. " V. UP & DN. P 3
"CW "HW " S. " V. UP & DN. P 2
"CW "HW " S. " V. UP & DN. P 1
"CW "HW " S. " V. UP & DN. P 30
"CW "HW " S. " V. UP & DN. P 29
"CW "HW " S. " V. UP & DN. P 28
"CW "HW " S. " V. " G. UP & DN. P 27 G 9
"CW "HW " S. " V. UP & DN. P 26
UP & DN. | 1" HWC. (GRAVITY ZONE 5)
UP | 2" HW (GRAVITY ZONE 5)
(25TH FLOOR ONLY) | 3" CW (GRAVITY ZONE 5)
"CW "HW " S. " V. " G. UP & DN. P 25 G 8
TERRACE DRAINS LOCATED ON 22ND FLOOR ONLY
3" T.D.
3" O.D.
"CW "HW " S. " V. UP & DN. P 24
"CW "HW " S. " V. UP & DN. P 23

G 2 P 11 UP & DN. "CW "HW " S. " V. " G.
1" HWC (GRAVITY ZONE 7)
2" HW (GRAVITY ZONE 7)
3" CW (GRAVITY ZONE 7)
8" L.
12" SAN.
15" YV.
15" V.
UP & DN.
G 3 P 12 UP & DN. "CW "HW " S. " V. " G.
P 13 UP & DN. "CW "HW " S. " V.
CW & HW (GRAVITY ZONE 5) DISTRIBUTION PIPING AT 26TH FLOOR ONLY.
G 4 P 14 UP & DN. "CW "HW " S. " V. " G.
CW & HW DN TO PLUMBING RISERS (TYPICAL FOR ALL RISERS)
P 15 UP & DN. "CW "HW " S. " V.
P 16 UP & DN. "CW "HW " S. " V.
P 17 UP & DN. "CW "HW " S. " V.
G 5 P 18 UP & DN. "CW "HW " S. " V. " G.
G 6 P 19 UP & DN. "CW "HW " S. " V. " G.
1" HWC. (GRAVITY ZONE 6)
2" HW (GRAVITY ZONE 6)
3" CW (GRAVITY ZONE 6)
10" G. (CONDOS)
8" L.
12" SAN.
15" YV.
15" V.
4" CWPD
UP & DN.
P 20 UP & DN. "CW "HW " S. " V.
P 21 UP & DN. "CW "HW " S. " V.
G 7 P 22 UP & DN. "CW "HW " S. " V. " G.

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
109 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10001
tel 646.605.5640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
259 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.888.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
229 WEST 43TH STREET
NEW YORK, NY 10017
tel 212.687.5688

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10120
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9328

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
555 SINGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, #19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.665.0646

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JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768-8540

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.8500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 908
NEW YORK, NY 10018
tel 212.315.0400

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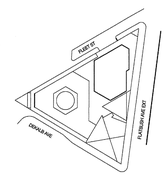
ENTEK ENGINEERING
188 AMES STREET
MADISONGACH, NJ 07901
tel 201.820.2602

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
950 BOWDITH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.668.0369

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10006
tel 212.924.2035

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.493.4290



SITE DIAGRAM

07/15/16 DOB FILING SET
04/21/16 PD & BOE DOB FILING SET
DATE ISSUE NO. DATE REVISION

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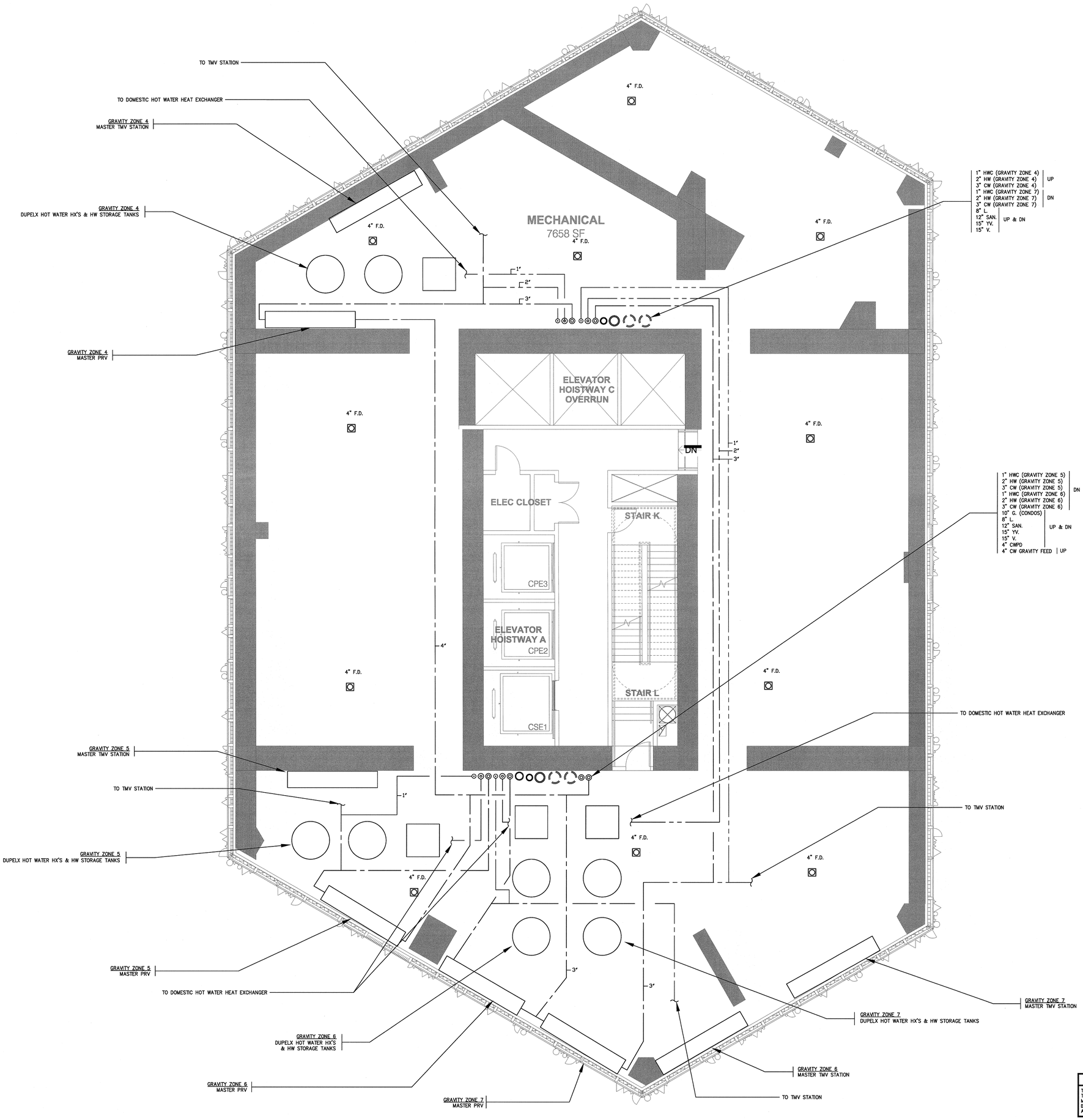
DRAWING TITLE
PLUMBING
FLOOR PLAN - LEVEL 22
(TYP. 22 - 26)

SEAL & SIGNATURE
STATE OF NEW YORK JAMES K. LYNCH 082114 LICENSED PROFESSIONAL ENGINEER

DATE 07.15.2016
PROJECT NO. 15466.0
DRAWN BY SR
CHECKED BY CL
DOB NO. 320914338
DRAWING NUMBER
P-122.00

DEPT OF BLDGS 320914338 Job Number
E320314429990 Scan Code



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DEVELOPER
JDS DEVELOPMENT GROUP
109 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.825.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.888.9005

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WSP CANTOR SEINUK STRUCTURAL ENGINEERS

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.620.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.667.9888

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AKRF

GEOTECHNICAL ENGINEER
MRCE
333 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9508

vda
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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 SINGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

JHPA JAN HIRD POKORNY ASSOCIATES

INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.665.0946

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.768-8040

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NEW YORK, NY 10001
tel 212.674.8500

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LONGMAN LINDSEY
1410 BROADWAY, SUITE 1506
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINEERING
168 AKES STREET
MORRISTADO, NJ 07801
tel 201.820.2802

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
950 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BURO HAPPOLD ENGINEERING

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VIDARIS
380 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2005

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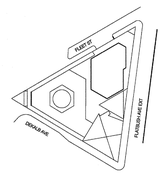
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.455.4290



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DRAWING TITLE

PLUMBING FLOOR PLAN - LEVEL 27 MECHANICAL

SEAL & SIGNATURE

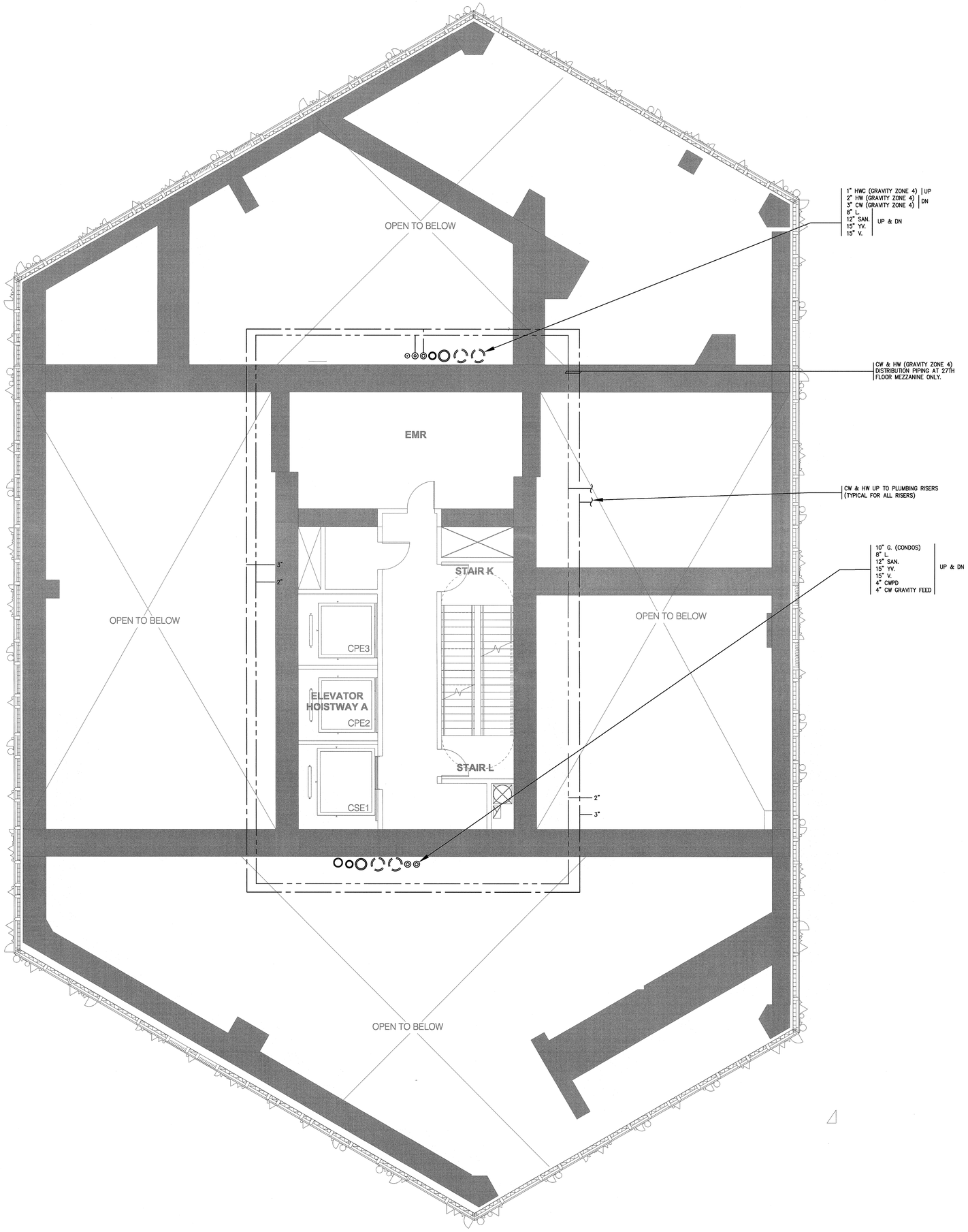
STATE OF NEW YORK · JAMES K. CHAN · 027117 · LICENSED PROFESSIONAL ENGINEER

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338

DRAWING NUMBER

P-127.00

DEPT OF BLDGS 320914338 Job Number
E57284437IN Scan Code



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DEVELOPER
JDS DEVELOPMENT GROUP
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NEW YORK, NY 10011
tel 646.825.3040

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.359.9000

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MEP ENGINEER
JAROS, BAUM & BOLLES
85 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

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STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.887.9888

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GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10022
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9328

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VERTICAL TRANSPORTATION
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100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3040

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, #13
NEW YORK, NY 10010
tel 917.661.7500

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA

HISTORIC PRESERVATION
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NEW YORK, NY 10018
tel 212.768.6540

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NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINEERING
168 AVES STREET
HACKENSACK, NJ 07601
tel 201.820.2800

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
350 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.211.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.689.8380

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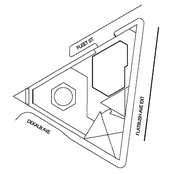
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2325

LOOP TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
322 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4290



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
04/01/16	FO & BOE DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

PLUMBING FLOOR PLAN - LEVEL 27 MEZZANINE MECHANICAL

SEAL & SIGNATURE

STATE OF NEW YORK · JAMES K. CHRISTIANSEN · 027113 · LICENSED PROFESSIONAL ENGINEER

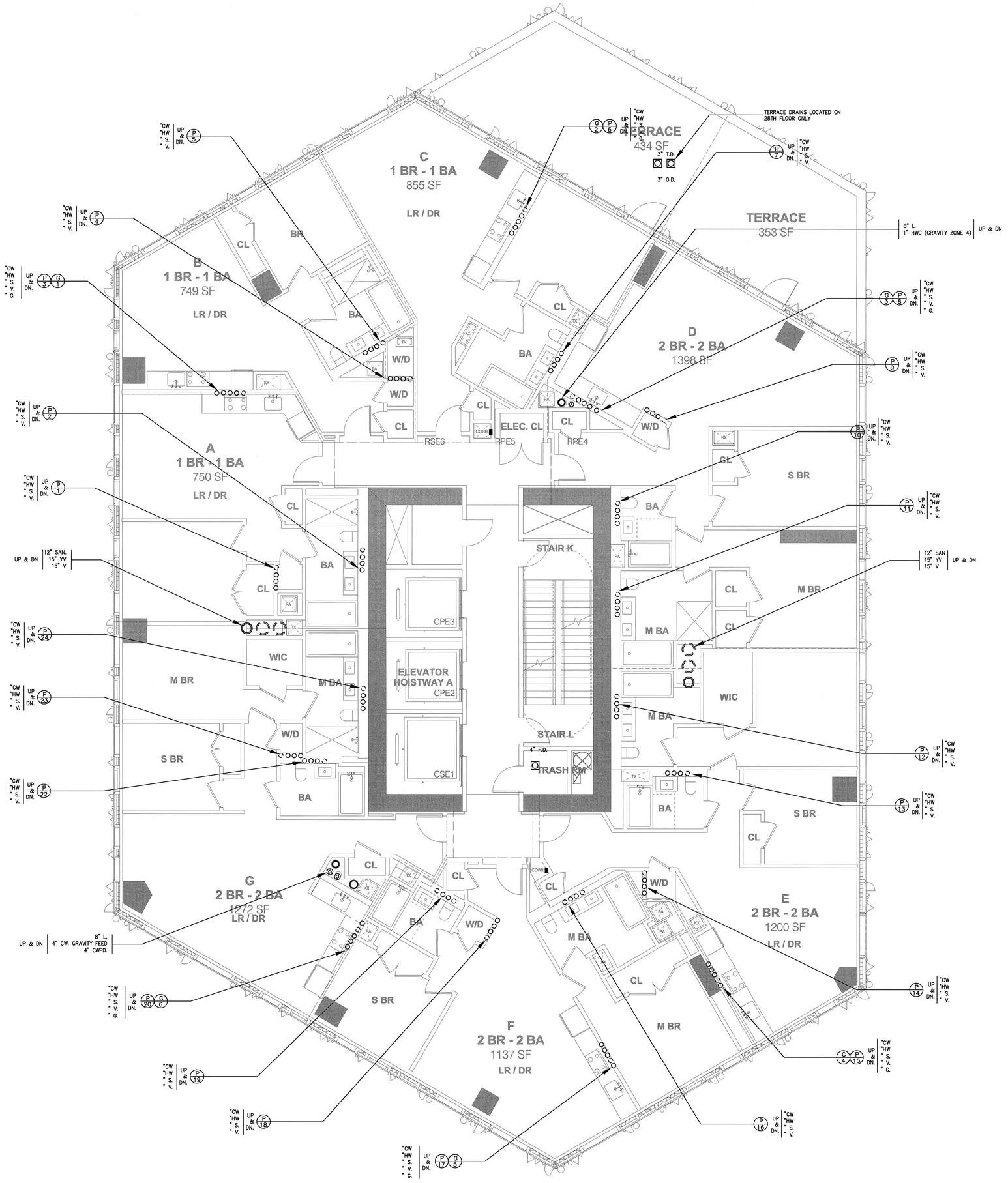
DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338

DRAWING NUMBER

P-128.00

DEPT OF BUILDINGS 320914338 Job Number

E528975948US Scan Code



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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.359.9000

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.232.0300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.667.9999

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 24TH STREET 6TH FLOOR
NEW YORK, NY 10123
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

VDA

Thornton Tomasetti

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 SINGLE ROCK AVE,SUITE 310
EAST HAVEN CT, NJ 07936
tel 646.625.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

JHPA JAN HIRD POKORNY ASSOCIATES

INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.665.0946

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768-9340

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NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.0480

ENTEK ENGINEERING LLC

SIMPSON GUMPERTZ & HEGER

BMU ENGINEER
ENTEK ENGINNERING
188 AKERS STREET
MADISONDACH, NJ 07901
tel 201.820.2902

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
600 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10036
tel 212.271.7000

VIDARIS

BURO HAPPOLD ENGINEERING

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.668.0380

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2225

LOISEAU TRACE POOL DESIGN

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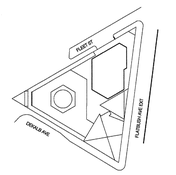
TRACE POOL DESIGN
330 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4250



SITE DIAGRAM

07/15/16 DOB FILING SET
04/21/16 FO & BOE DOB FILING SET

DATE ISSUE NO. DATE REVISION

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DRAWING TITLE

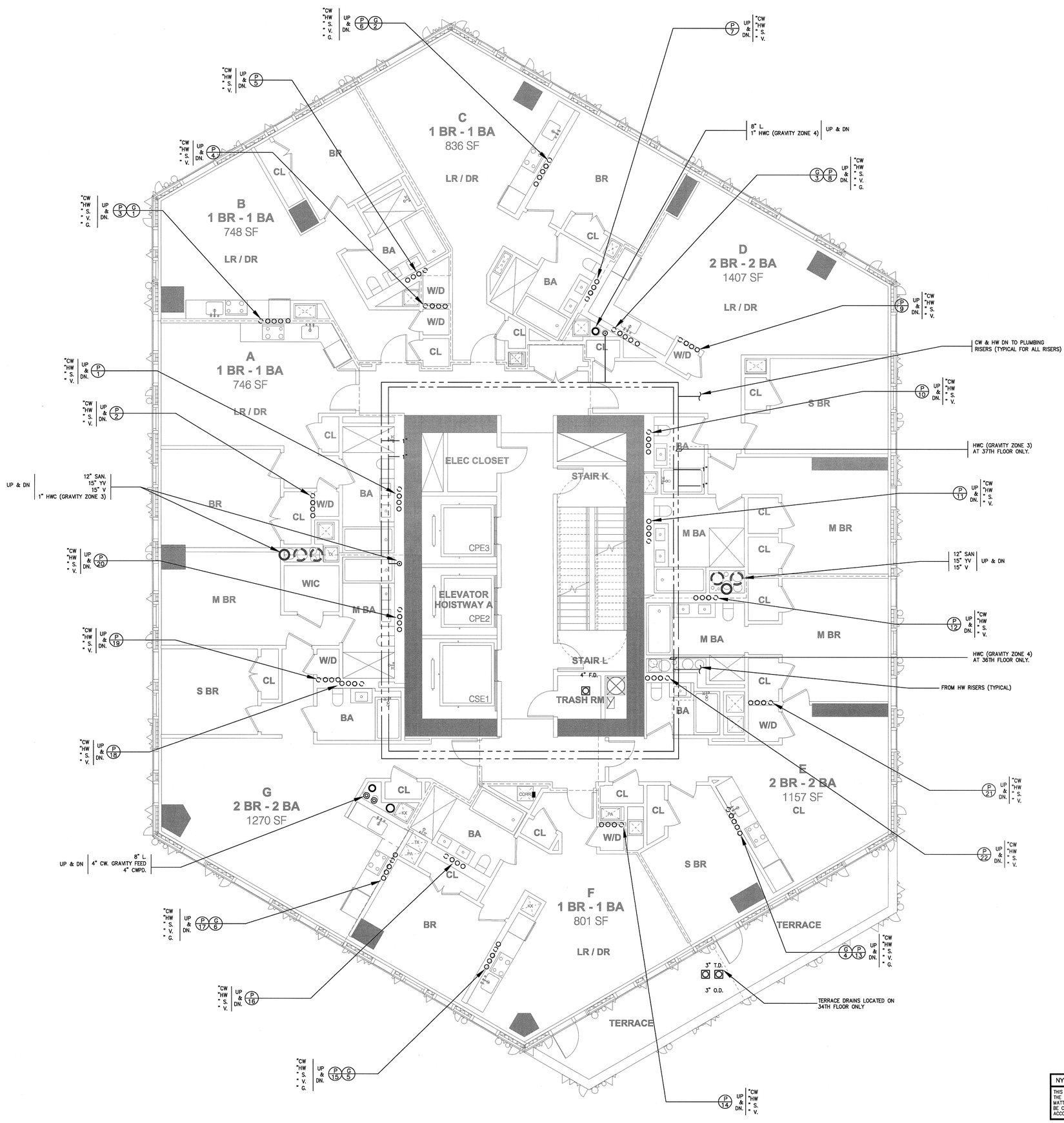
PLUMBING
FLOOR PLAN - LEVEL 28
(TYP. 28 - 33)

SEAL & SIGNATURE

STATE OF NEW YORK
THOMAS K. PHIFER
LICENSED PROFESSIONAL ENGINEER
037114

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338
DRAWING NUMBER	P-129.00

DEPT OF BLDGS 320143338 Job Number
E3070618F2DB Scan Code



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DEVELOPER
JDS DEVELOPMENT GROUP
254 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10001
tel 646.825.3940

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ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 10TH FLOOR
NEW YORK, NY 10279
tel 212.889.9065

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MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.520.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.667.3688

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9028

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VERTICAL TRANSPORTATION
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100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7500

GACHOT

INTERIORS
GACHOT
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NEW YORK, NY 10013
tel 646.668.0646

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HISTORIC PRESERVATION
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tel 212.674.6500

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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

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ENTEK ENGINEERING
168 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.0562

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
950 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10019
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 10TH FLOOR
NEW YORK, NY 10003
tel 212.689.0389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.0325

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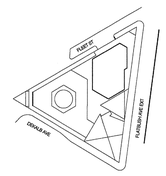

SITE DIAGRAM

07/15/16 DOB FILING SET
04/01/16 PC & BOC DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

PLUMBING FLOOR PLAN - LEVEL 34 (TYP. 34 - 39)

SEAL & SIGNATURE

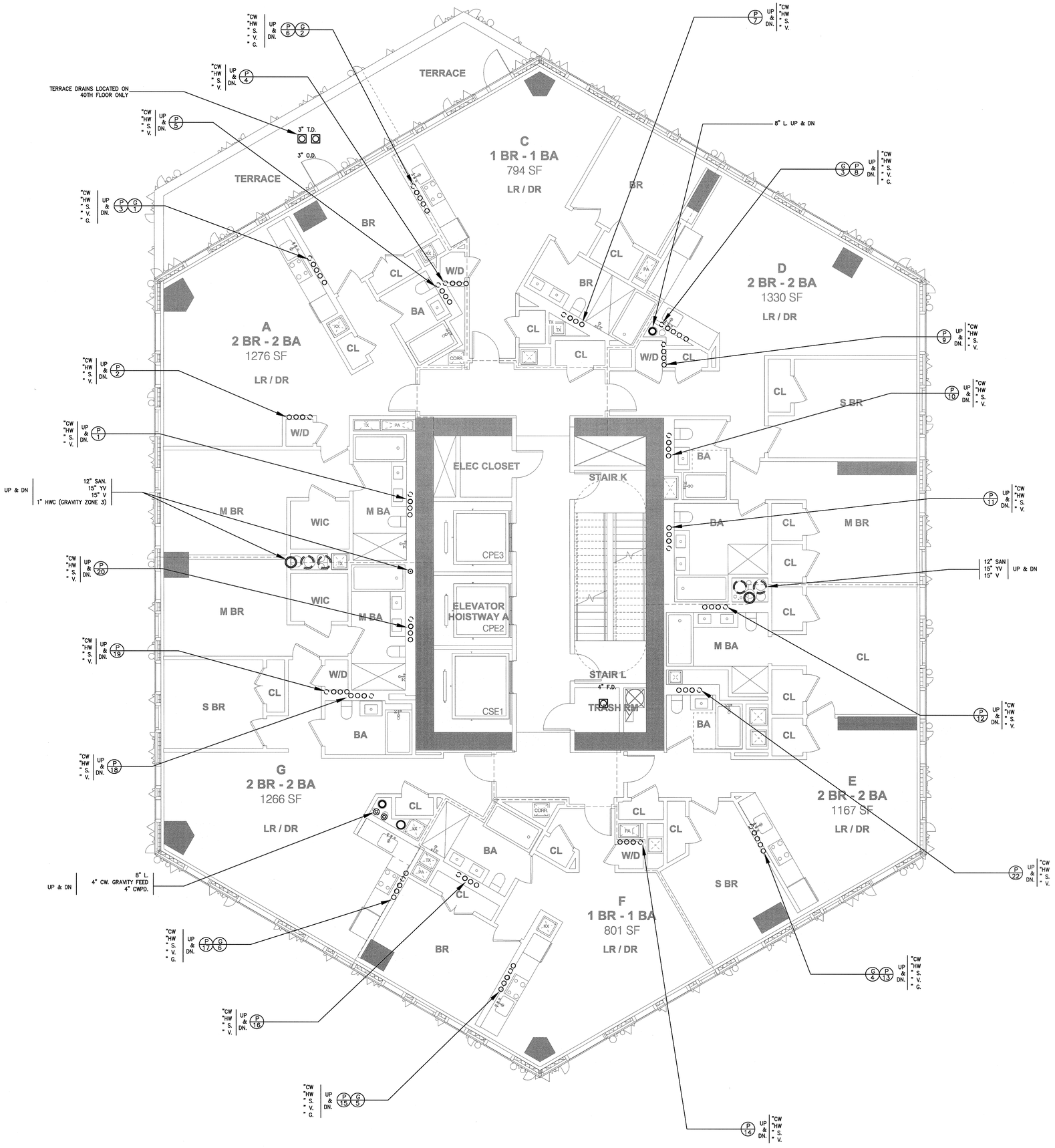
STATE OF NEW YORK · JAMES K. CHAN · 087114 · LICENSED PROFESSIONAL ENGINEER

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338

DRAWING NUMBER

P-134.00

DEPT OF BLDGS 320014338 Job Number
E3419736273 Scan Code



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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3940

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.669.9000

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.697.9668

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 24TH STREET 6TH FLOOR
NEW YORK, NY 10036
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9629

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, #10
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.668.0846

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HISTORIC PRESERVATION
JAN HIRO PORKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6040

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NEW YORK, NY 10001
tel 212.674.6500

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LONGMAN LINDSEY
1410 BROADWAY, SUITE 608
NEW YORK, NY 10018
tel 212.510.6400

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198 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

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SIMPSON GUMPERTZ & HEGER
950 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10019
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.689.9369

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BURO HAPPOLD
120 BROADWAY
NEW YORK, NY 10005
tel 212.334.2005

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333 WESTCHESTER AVENUE
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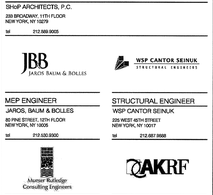

SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
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NO.	DATE	REVISION

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DRAWING TITLE

PLUMBING FLOOR PLAN - LEVEL 40 (TYP. 40 - 44)

SEAL & SIGNATURE

STATE OF NEW YORK · JAMES R. NAGY · 087114 · LICENSED PROFESSIONAL ENGINEER

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320014338

DRAWING NUMBER

P-140.00

DEPT OF BLDGS 320914338 Job Number
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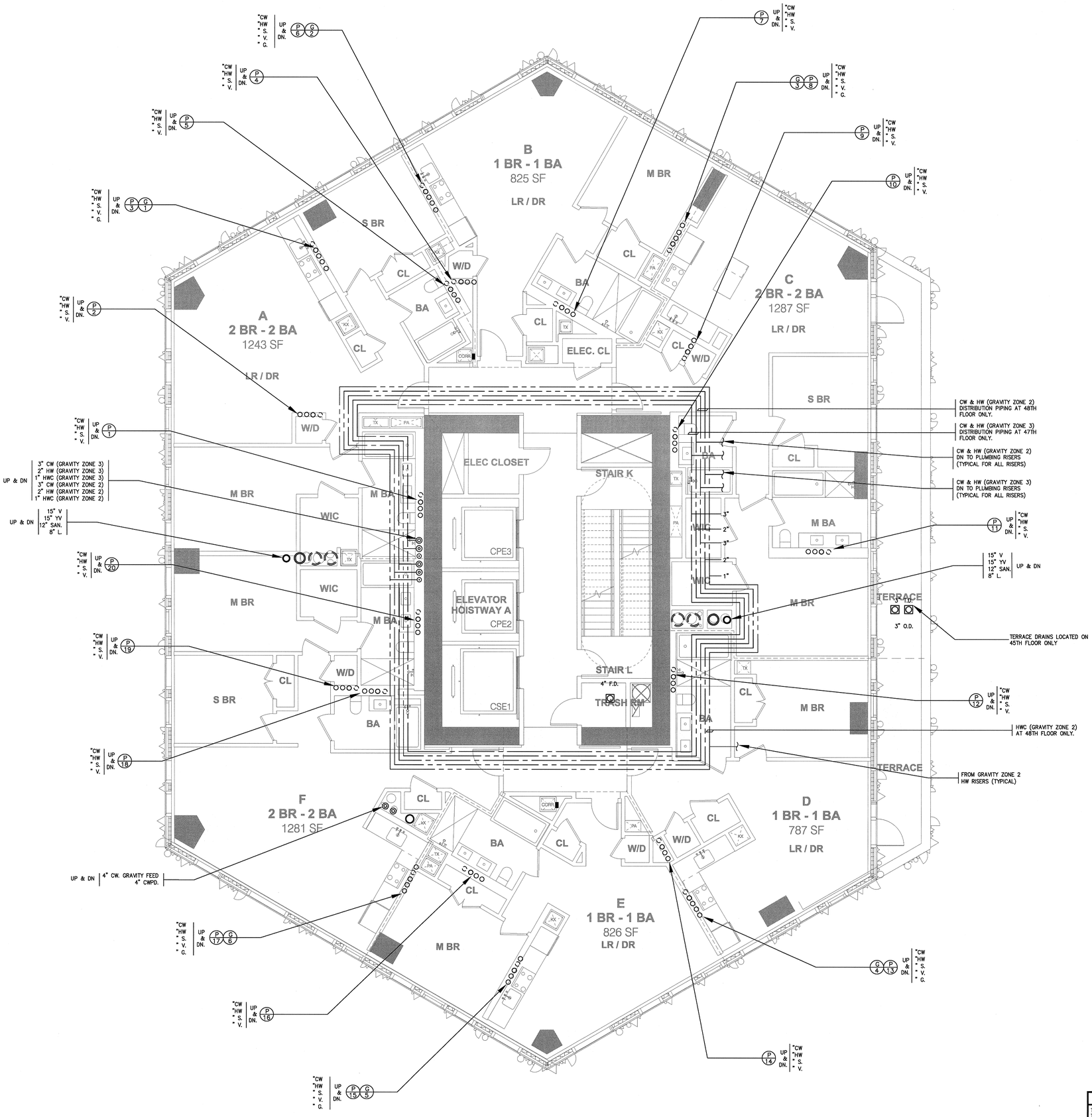

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.825.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212-320-9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.697.3998

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9028

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
39H BROADWAY SUITE 809
NEW YORK, NY 10018
tel 646.665.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768-6540

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237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 308
NEW YORK, NY 10018
tel 212.213.6460

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ENTEK ENGINEERING
186 AMES STREET
HACKENSACK, NJ 07601
tel 201.883.0800

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10019
tel 212.271.7000

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NEW YORK, NY 10010
tel 212.689.5389

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120 BROADWAY
NEW YORK, NY 10005
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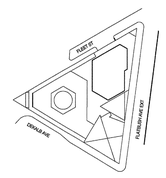

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DATE	ISSUE
2015/16	DOB FILING SET
04/21/16	FD & BOE DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

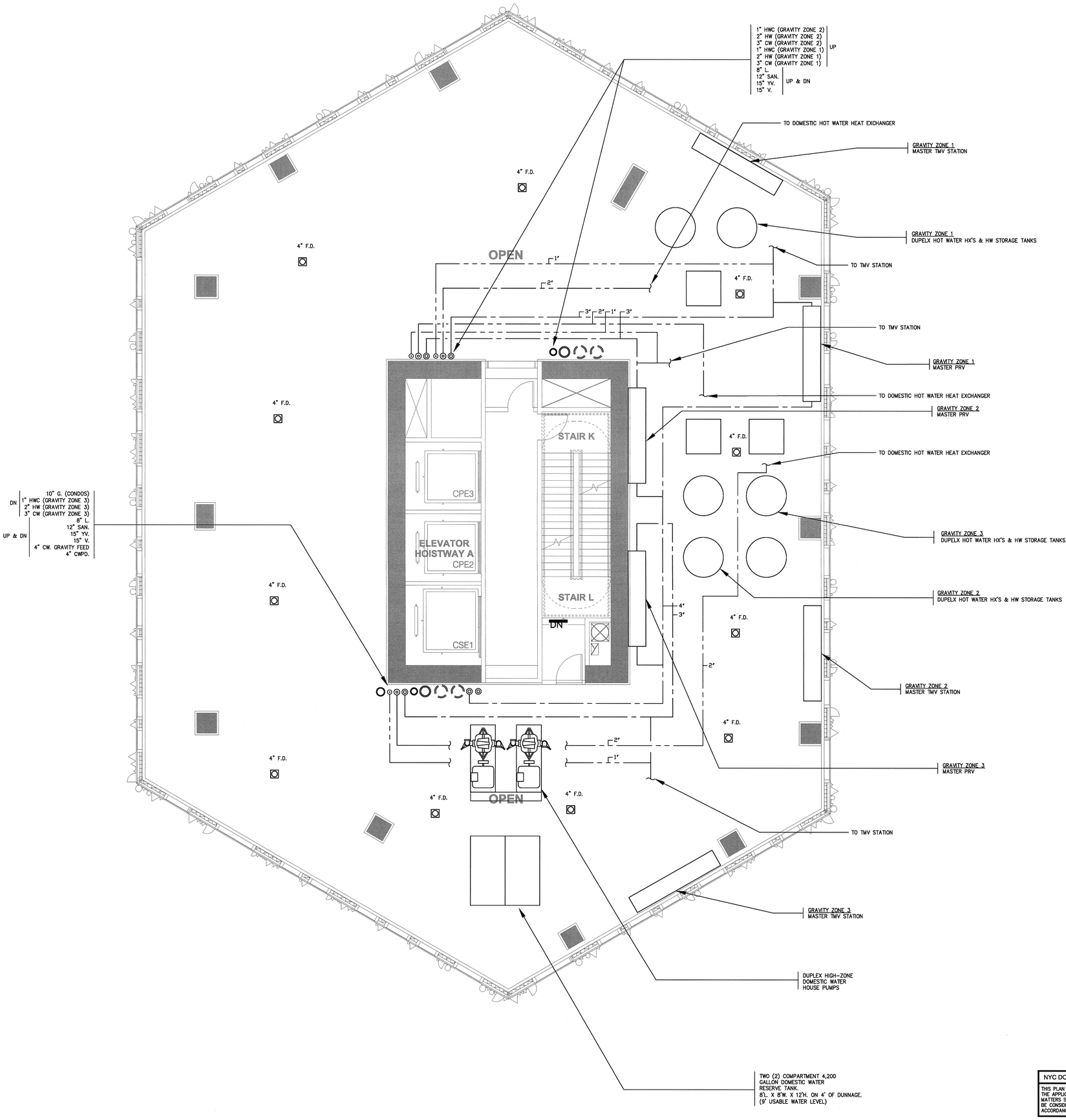
PLUMBING FLOOR PLAN - LEVEL 45 (TYP. 45 - 48)

SEAL & SIGNATURE

STATE OF NEW YORK CHARLES R. LEE 087113 REGISTERED PROFESSIONAL ENGINEER

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338
DRAWING NUMBER	P-145.00

BSPT OP BLOCK 00014338 Job Number
B3009710055 Scan Code



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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
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tel 646.825.3940

ShoP

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.359.9000

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.667.9988

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 8TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9626

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, #19
NEW YORK, NY 10003
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.568.0846

JHPA JAN HIRD POMORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POMORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.768.6540

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NEW YORK, NY 10001
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1412 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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198 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
950 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10019
tel 212.211.7000

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BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.684.0369

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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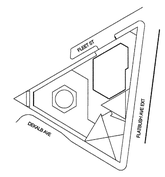

SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
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04/21/16	PC & BOT DOB FILING SET			

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DRAWING TITLE

PLUMBING FLOOR PLAN - LEVEL 49 MECHANICAL

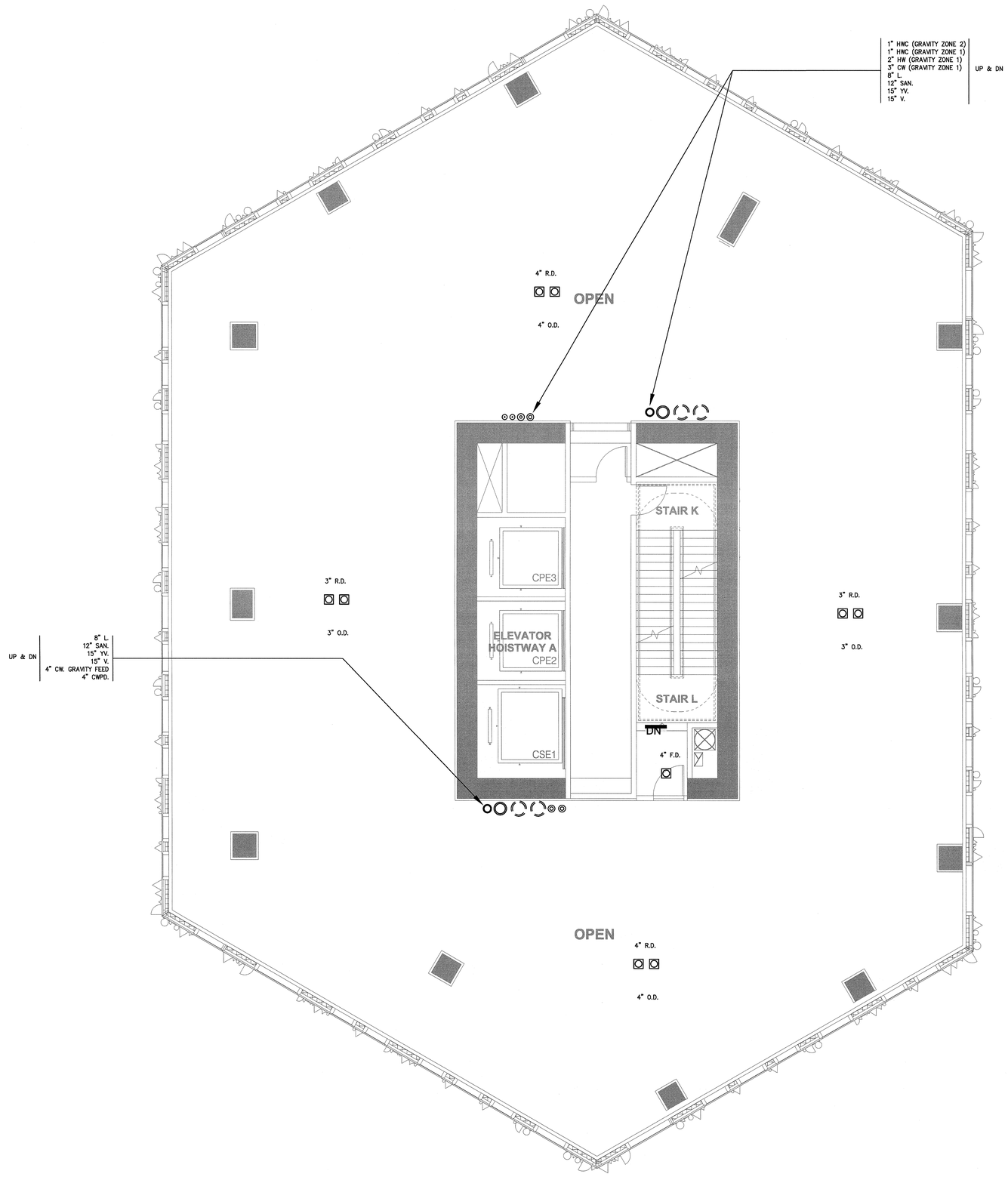
SEAL & SIGNATURE

STATE OF NEW YORK — JAMES K. CHIN — 087114 — LICENSED PROFESSIONAL ENGINEER

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338
DRAWING NUMBER	P-149.00

DEPT OF BLDGS 320914338 Job Number

E507535945 Scan Code



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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.888.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
229 WEST 43TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9508

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 SINGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.666.0646

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768-8040

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NEW YORK, NY 10001
tel 212.874.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 108
NEW YORK, NY 10018
tel 212.315.0400

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ENTEK ENGINNERING
168 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.0902

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SIMPSON GUMPERTZ & HEGER
592 SEVENTH AVENUE, 16TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.660.5380

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
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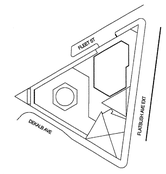
tel 914.495.4290



SITE DIAGRAM

07/15/16 DOB FILING SET
04/21/16 PD & BOE DOB FILING SET

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DRAWING TITLE

PLUMBING FLOOR PLAN - LEVEL 50 MECHANICAL/ WINDBREAK

SEAL & SIGNATURE

STATE OF NEW YORK JAMES A. LA FAVE 072113 LICENSED PROFESSIONAL ENGINEER

DATE	07.15.2016
PROJECT NO.	15456.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338
DRAWING NUMBER	P-150.00

DEPT OF BUILDINGS 320914338 Job Number
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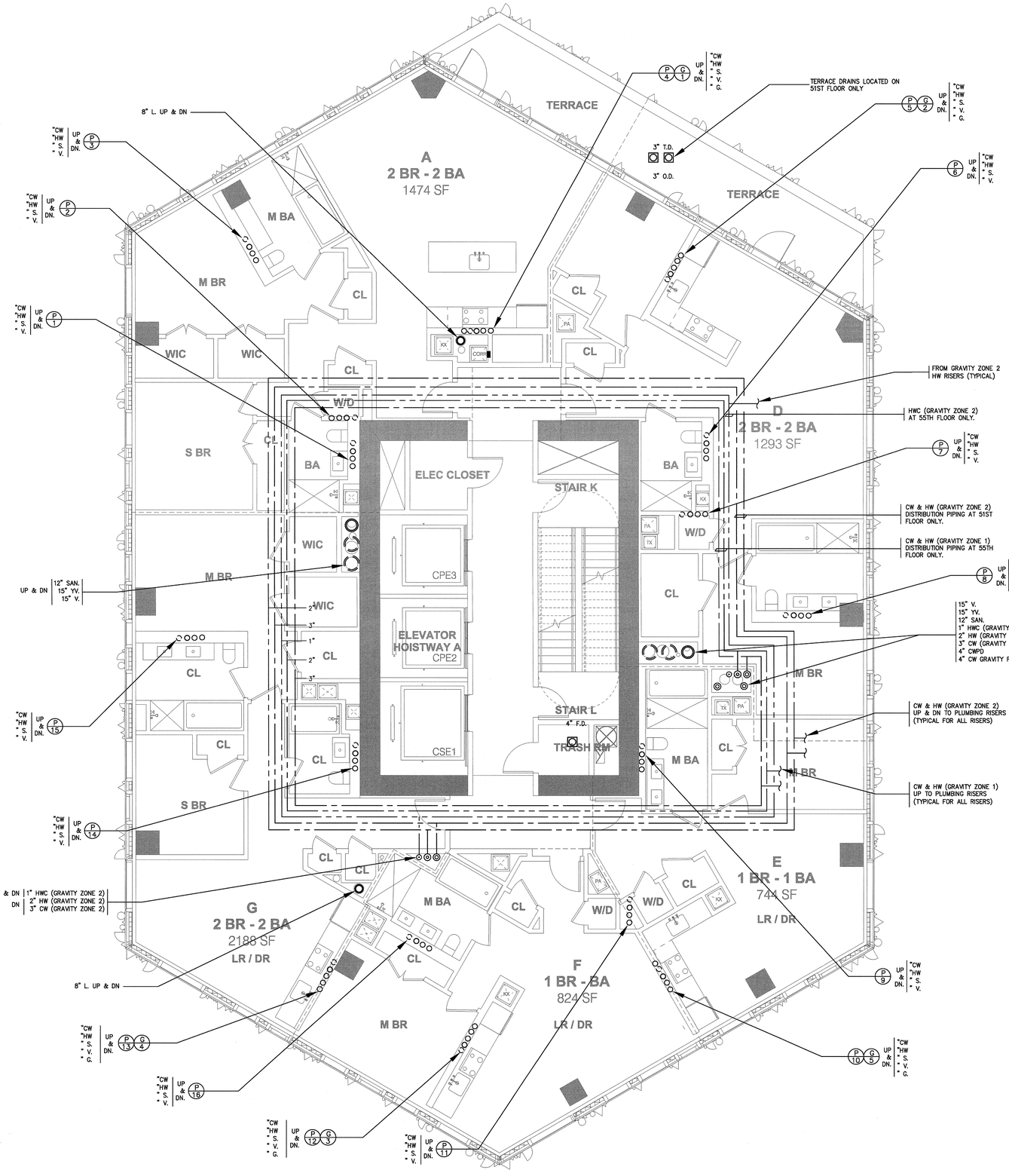

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9500

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.887.9888

GEOTECHNICAL ENGINEER
MPCE
229 WEST 24TH STREET 6TH FLOOR
NEW YORK, NY 10123
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3940

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THORNTON TOMASETTI
51 MADISON AVE, #19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
664 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 15A
NEW YORK, NY 10018
tel 212.768.8040

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.874.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 509
NEW YORK, NY 10018
tel 212.315.6400

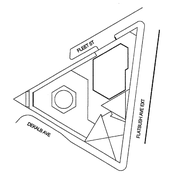
BMU ENGINEER
ENTEK ENGINEERING
196 HAISS STREET
HACKENSACK, NJ 07601
tel 201.820.3902

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
350 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10001
tel 212.271.7000

BUILDING ENERGY
VIDARE
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.668.5369

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4200



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07/15/16 DOB FILING SET
04/01/16 PD & BOE DOB FILING SET

DATE ISSUE NO. DATE REVISION

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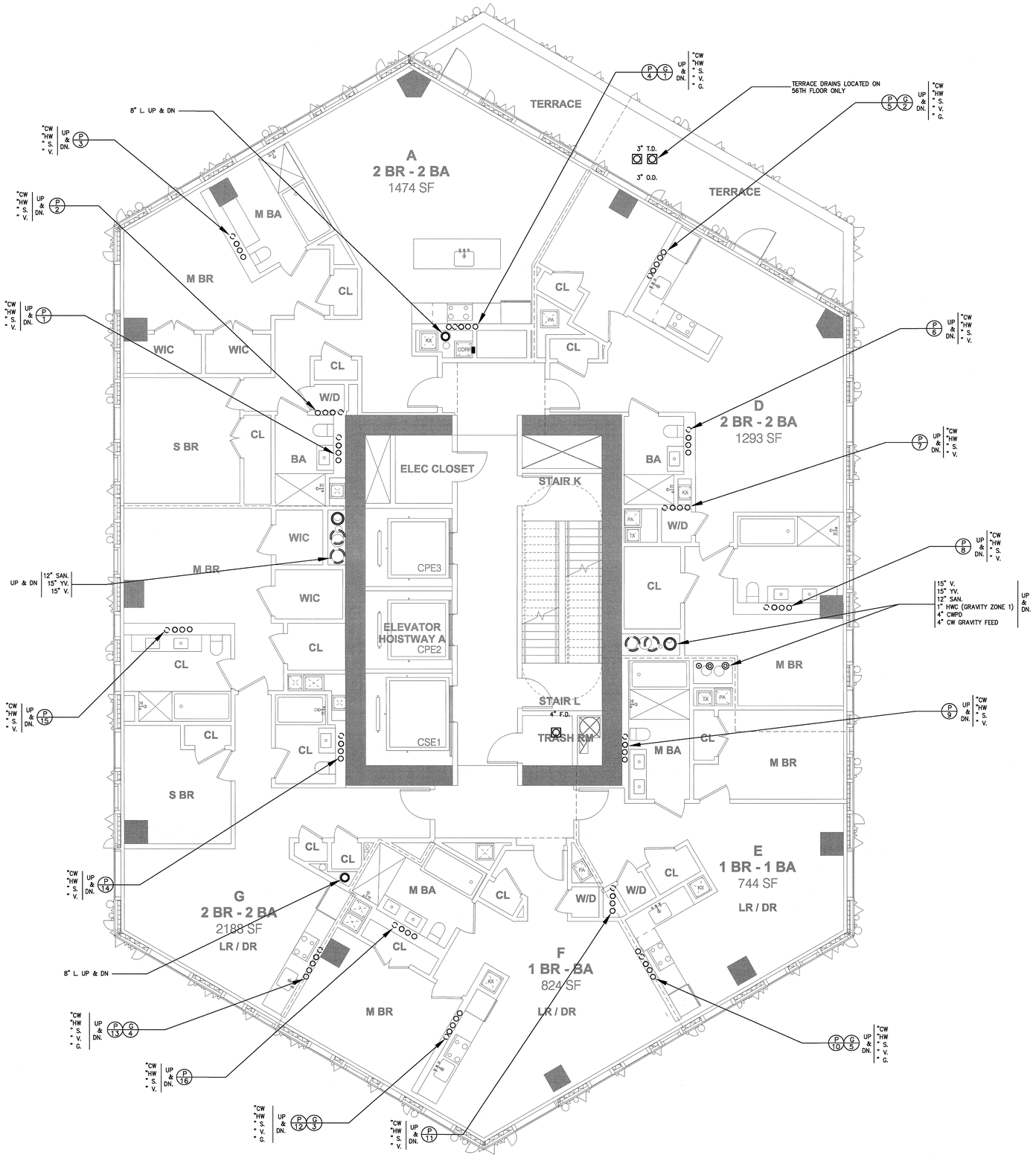
DRAWING TITLE

PLUMBING FLOOR PLAN - LEVEL 51 (TYP. 51 - 55)

SEAL & SIGNATURE

DATE	07.15.2016
PROJECT NO.	15456.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338
DRAWING NUMBER	P-151.00

DEPT OF BLDGS 320914336 Job Number
E356665572BX Scan Code



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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10001
tel 646.625.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.359.9500

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.520.9500

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.687.9888

GEOTECHNICAL ENGINEER
MPCE
259 WEST 30TH STREET 6TH FLOOR
NEW YORK, NY 10030
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, #19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.665.0646

HISTORIC PRESERVATION
JAN HIRO POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6040

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.8500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6460

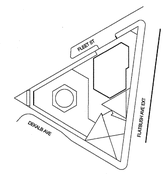
BMU ENGINEER
ENTEK ENGINEERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
950 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10019
tel 212.271.7090

BUILDING ENERGY
VIDARIS
580 THIRD AVENUE SOUTH, 10TH FLOOR
NEW YORK, NY 10010
tel 212.684.0369

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2685

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4290



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07/15/16	DOB FILING SET			
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DRAWING TITLE

PLUMBING FLOOR PLAN - LEVEL 56 (TYP. 56 - 60)

SEAL & SIGNATURE

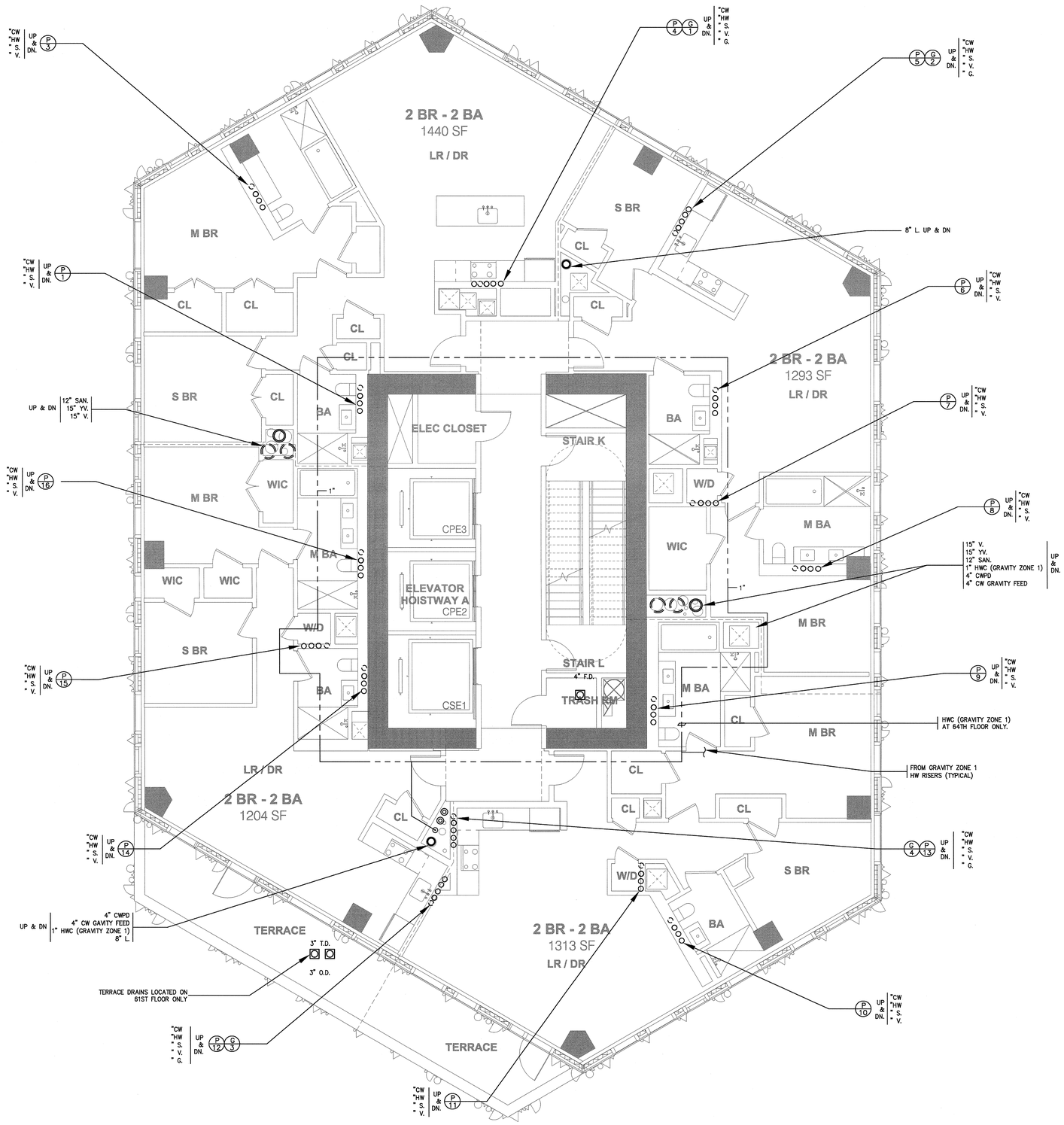
STATE OF NEW YORK · JAMES K. TRAVERS · 087114 · LICENSED PROFESSIONAL ENGINEER

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914336

DRAWING NUMBER

P-156.00

DEPT OF BLDGS 320914338 Job Number
E524143433B1 Scan Code



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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
329 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.888.9005

JBB JAROS BAUM & BOLLES

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

MEP ENGINEER
JAROS, BAUM & BOLLES
85 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.5500

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.667.3888

Mueser Rutledge Consulting Engineers

AKRF

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9328

vda

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

JHPA JAN HIRED POKORNY ASSOCIATES

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0646

HISTORIC PRESERVATION
JAN HIRED POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768-6540

BOLD

Longman Lindsey

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6900

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 608
NEW YORK, NY 10018
tel 212.315.0400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

SIMPSON GUMPERTZ & HEGER

BMU ENGINEER
ENTEK ENGINEERING
168 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.211.7000

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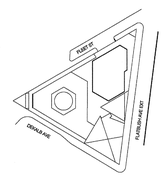
BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10016
tel 212.689.5366

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lotrop STRUCTURAL DESIGN

POOL
TRACE POOL DESIGN
339 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.455.4350



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NO.	DATE	REVISION

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DRAWING TITLE

PLUMBING FLOOR PLAN - LEVEL 61 (TYP. 61 - 64)

SEAL & SIGNATURE

STATE OF NEW YORK 087114 LICENSED PROFESSIONAL ENGINEER

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338

DRAWING NUMBER

P-161.00

DEPT OF BUILDINGS 320914338 Job Number

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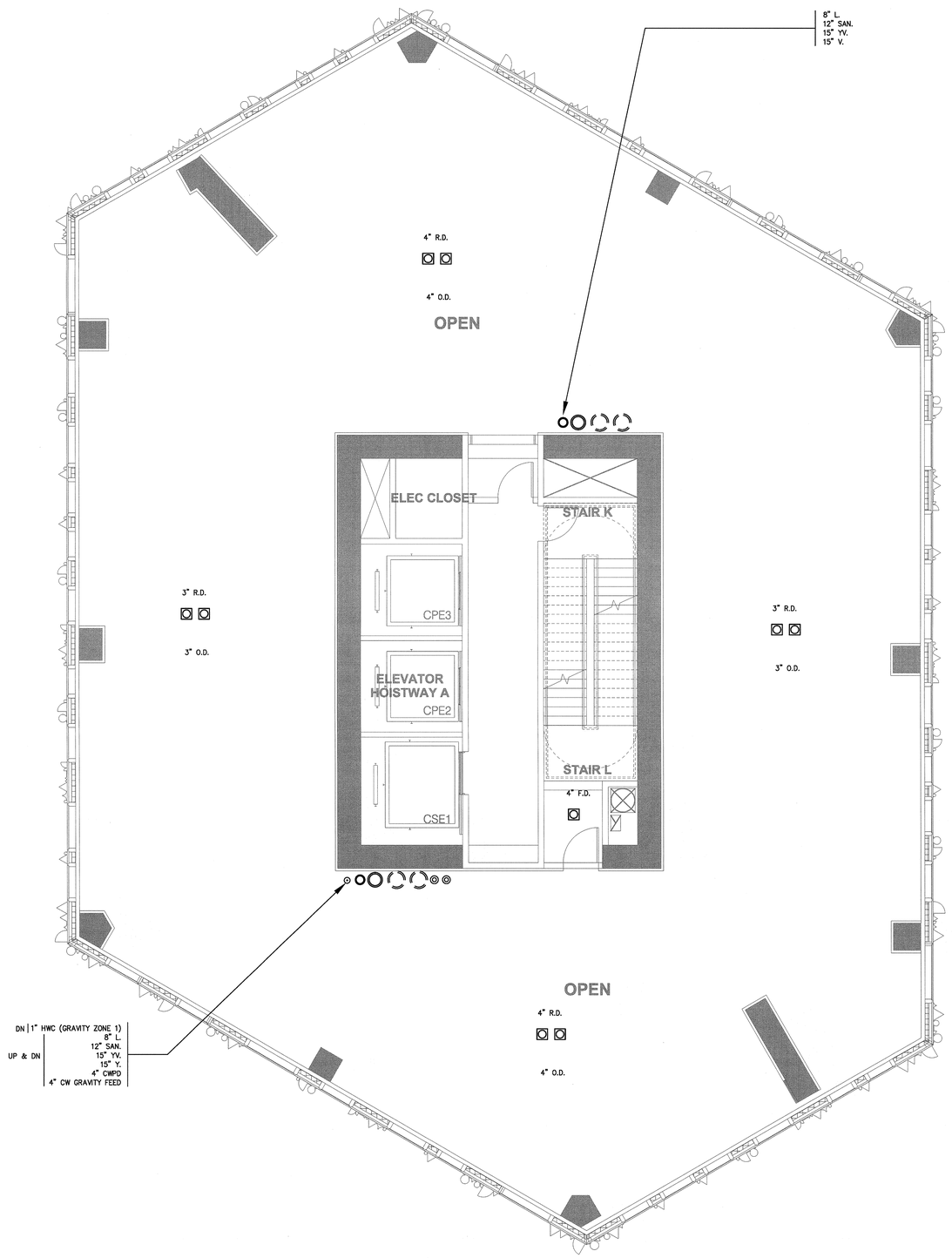

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.825.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
333 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.6000

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9100

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.887.8988

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 24TH STREET 6TH FLOOR
NEW YORK, NY 10025
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7900

GACHOT

INTERIORS
GACHOT
694 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.5846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS SINCE 1981

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.768-9540

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LIGHTING
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227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.674.6900

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 608
NEW YORK, NY 10018
tel 212.315.8400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
168 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
950 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10019
tel 212.211.7500

VIDARIS

BUROHAPPOLD ENGINEERING

BUILDING ENERGY
VIDARIS
350 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.889.5385

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2035

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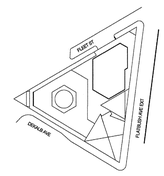
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.455.4290



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DRAWING TITLE

PLUMBING FLOOR PLAN - LEVEL 65 MECHANICAL/ WINDBREAK

SEAL & SIGNATURE

STATE OF NEW YORK — LICENSED PROFESSIONAL ENGINEER — P.E.

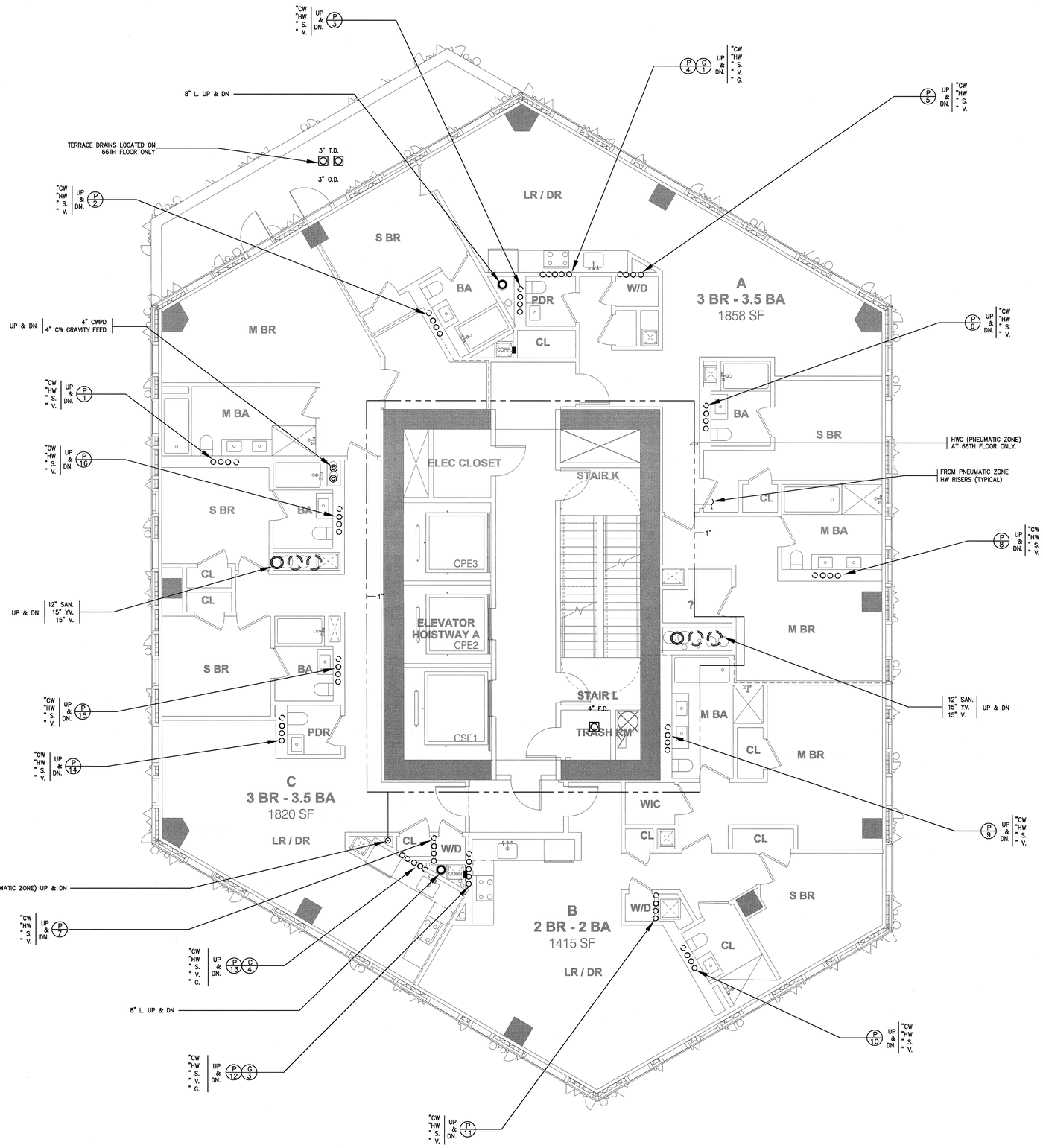
DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	GL
DOB NO.	320914338

DRAWING NUMBER

P-165.00

DEPT OF BLDGS 320914338 Job Number

E345059915MS Scan Code



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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.625.5940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.888.9005

JBB JAROS BAUM & BOLLES

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.8900

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
229 WEST 43TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

AKRF

GEOTECHNICAL ENGINEER
MRCE
229 WEST 54TH STREET 6TH FLOOR
NEW YORK, NY 10020
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.6028

vda

Thornton Tomasetti

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
500 SNOLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

JHPA JAN HIRD POKORNY ASSOCIATES

INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.666.0646

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768-8540

BOLD

Longman Lindsey

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.8500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 908
NEW YORK, NY 10018
tel 212.315.0400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

SIMPSON GUMPERTZ & HEGER

BMU ENGINEER
ENTEK ENGINEERING
100 MAIN STREET
HACKENSACK, NJ 07601
tel 201.820.2800

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
950 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BURO HAPPOLD ENGINEERING

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10036
tel 212.334.2005

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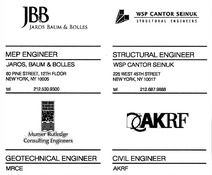
POOL
TRACE POOL DESIGN
330 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.682.4200



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
04/01/16	FD & SOE DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

PLUMBING
FLOOR PLAN - LEVEL 66
(TYP. 66-69)

SEAL & SIGNATURE

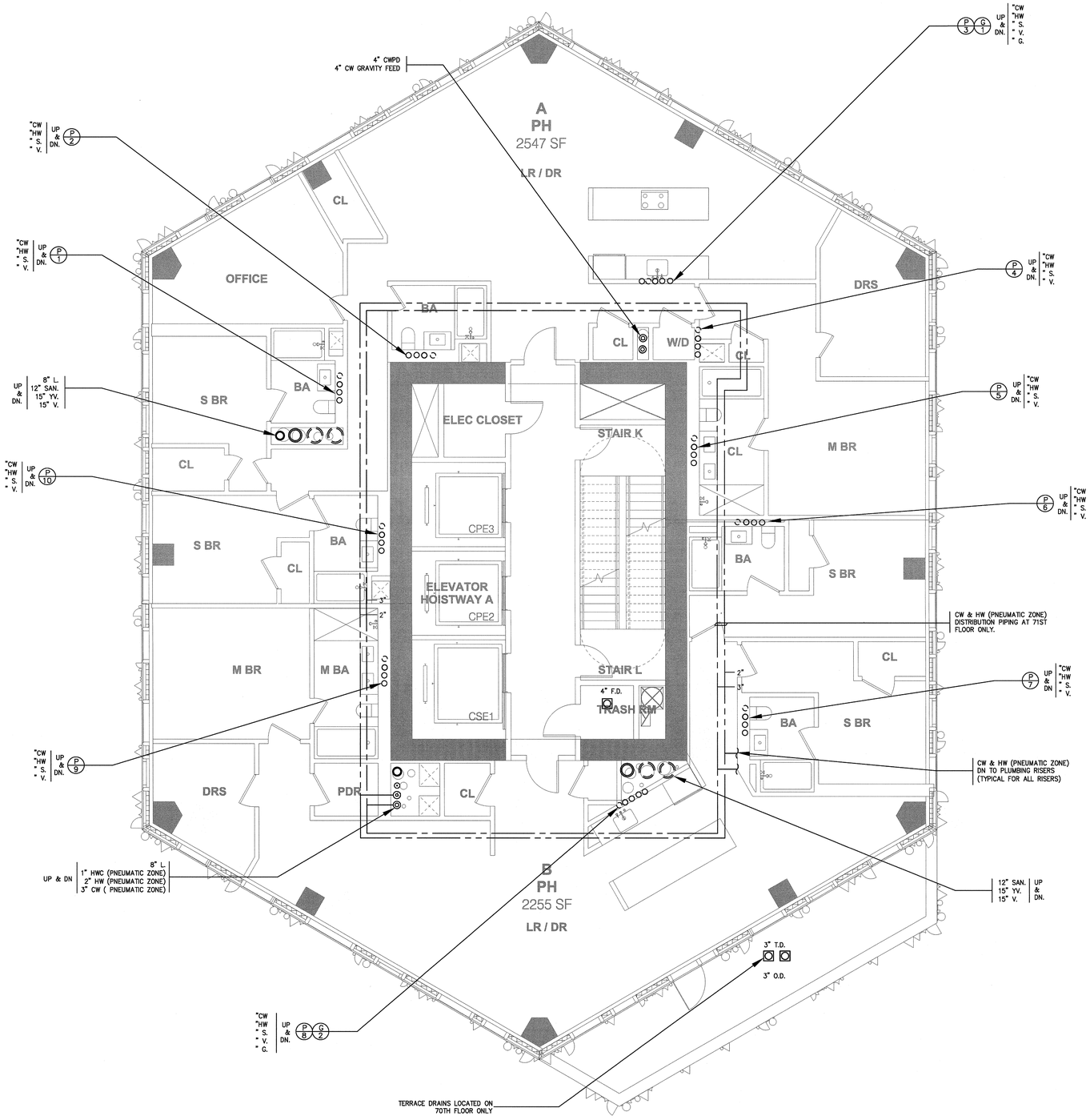
STATE OF NEW YORK 027114 LICENSED PROFESSIONAL ENGINEER

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338

DRAWING NUMBER

P-166.00

DEPT OF BLDGS 320914338 Job Number
ESQ4904444351 Scan Code



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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
106 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.625.5940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.888.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.5900

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
229 WEST 43TH STREET
NEW YORK, NY 10017
tel 212.687.3688

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9328

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EAST HAVEN, NJ 07936
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THORNTON TOMASETTI
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NEW YORK, NY 10010
tel 917.661.7800

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NEW YORK, NY 10013
tel 646.665.0646

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HISTORIC PRESERVATION
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NEW YORK, NY 10018
tel 212.768-8040

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NEW YORK, NY 10001
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LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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188 AKERS STREET
MADISONGACH, NJ 07901
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
950 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 18TH FLOOR
NEW YORK, NY 10010
tel 212.689.0369

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FIRE SAFETY ENGINEER
BURO HAPPOLD
120 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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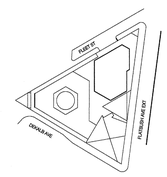
TRADE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.461.4200



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
04/01/19	FD & BOE DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

PLUMBING FLOOR PLAN - LEVEL 70 (TYP. 70-71)

SEAL & SIGNATURE

STATE OF NEW YORK — CHRISTOPHER LAMB — 087113 — REGISTERED PROFESSIONAL ENGINEER

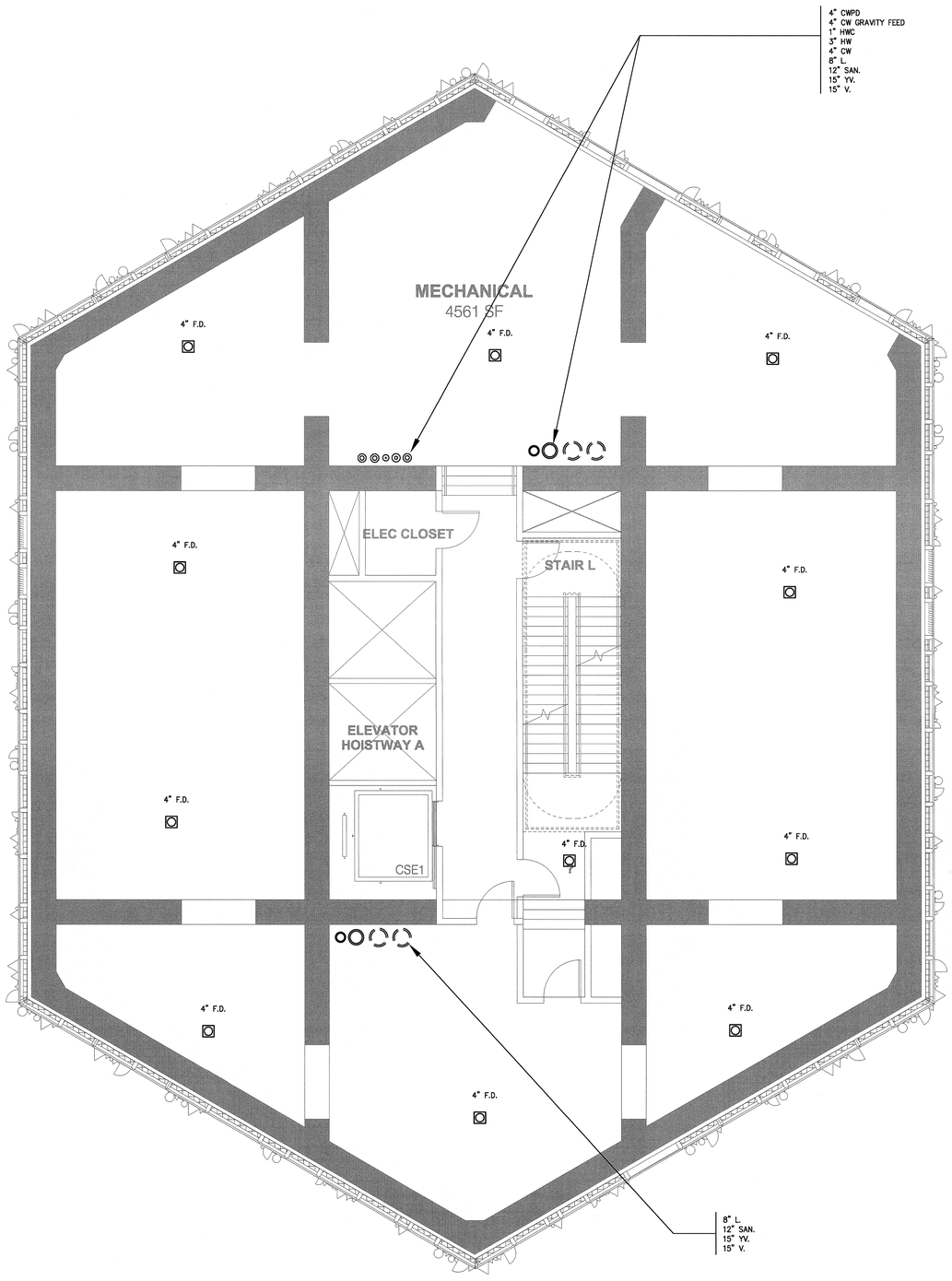
DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338

DRAWING NUMBER

P-170.00

DEPT OF BLDGS 320914338 Job Number

E5762305545 Scan Code



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JDS DEVELOPMENT GROUP
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NEW YORK, NY 10011
tel 646.825.3040

shop

ARCHITECT
SHOP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.359.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
229 WEST 43TH STREET
NEW YORK, NY 10017
tel 212.887.9988

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 24TH STREET 8TH FLOOR
NEW YORK, NY 10036
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3040

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7900

GACHOT

INTERIORS
GACHOT
664 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.665.5846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 15A
NEW YORK, NY 10018
tel 212.768.6540

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LIGHTING
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227 WEST 29TH STREET
NEW YORK, NY 10001
tel 212.613.8300

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 608
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CIVIL/STRUCTURAL ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
198 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.655.5300

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.0005

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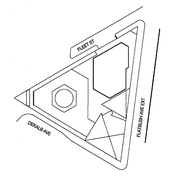
POOL
TRACE POOL DESIGN
330 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4390



SITE DIAGRAM

07/15/16 DOB FILING SET
04/01/16 PD & BOE DOB FILING SET

DATE ISSUE NO. DATE REVISION

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DRAWING TITLE

PLUMBING
FLOOR PLAN - LEVEL 72
MECHANICAL

SEAL & SIGNATURE

STATE OF NEW YORK JAMES A. FRANCO 037117 LICENSED PROFESSIONAL ENGINEER

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	BR
CHECKED BY	GL
DOB NO.	320914338
DRAWING NUMBER	P-172.00

DEPT OF BUILDINGS 320914338 Job Number

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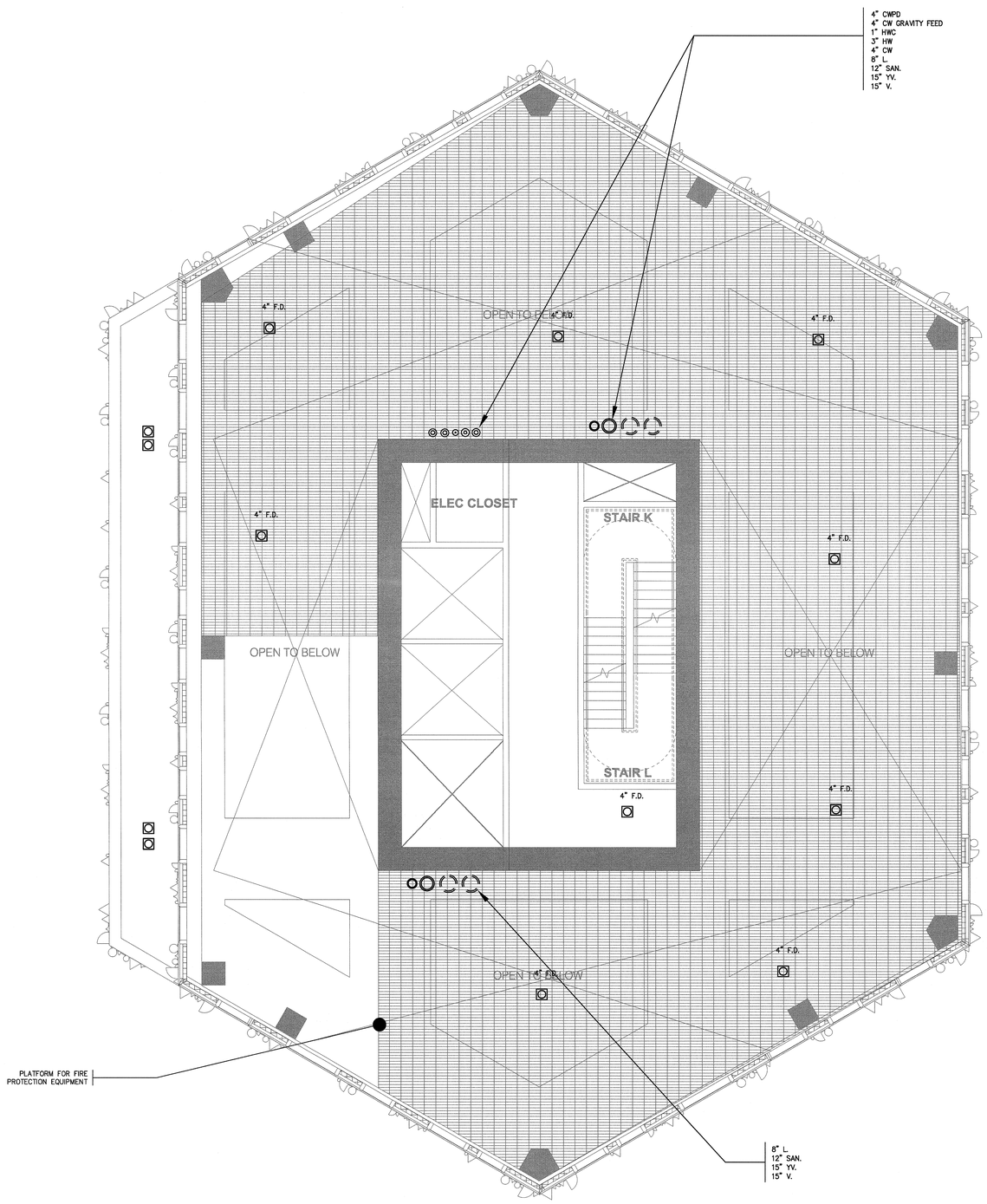

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3940

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.909.9900

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.5000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 60TH STREET
NEW YORK, NY 10017
tel 212.687.3660

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
222 WEST 24TH STREET 6TH FLOOR
NEW YORK, NY 10132
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9658

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.668.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6040

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6450

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
198 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2900

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
600 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.221.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.684.6348

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.0005

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TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
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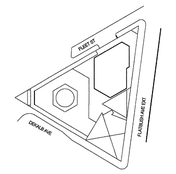

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DATE	ISSUE	NO.	DATE	REVISION
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DRAWING TITLE

PLUMBING
FLOOR PLAN - LEVEL 72 + 16'

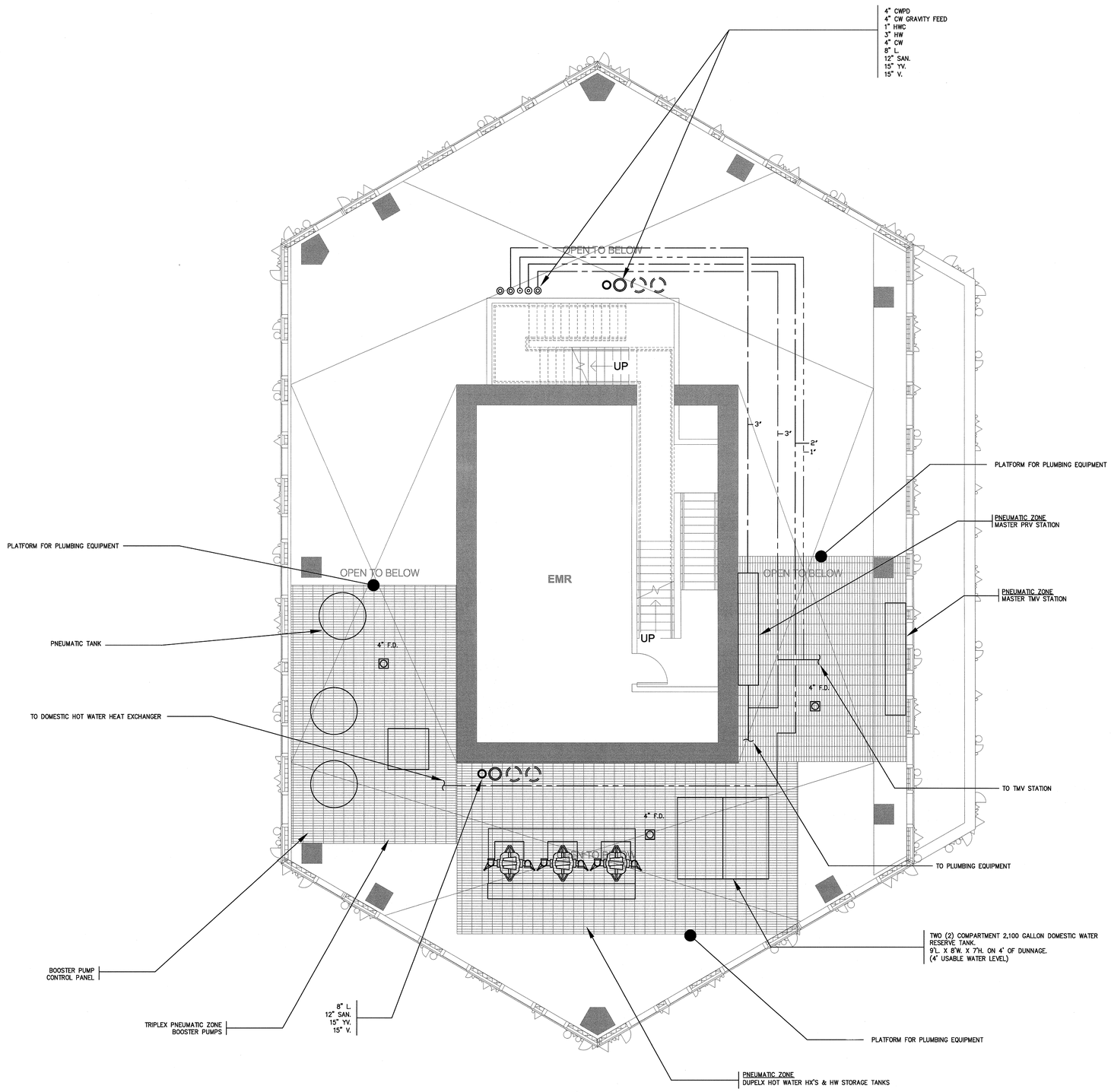
SEAL & SIGNATURE

STATE OF NEW YORK — JAMES RUTH — 027114 — LICENSED PROFESSIONAL ENGINEER

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338
DRAWING NUMBER	P-173.00

DEPT OF BLDGS 320914338 Job Number

ES2414300845 Scan Code



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DEVELOPER
JDS DEVELOPMENT GROUP
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NEW YORK, NY 10011
tel 646.825.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.620.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.3588

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 DAGGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7900

GACHOT

INTERIORS
GACHOT
304 BROADWAY SUITE 509
NEW YORK, NY 10013
tel 646.665.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
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tel 212.674.6500

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NEW YORK, NY 10016
tel 212.315.6400

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188 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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tel 212.271.7000

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NEW YORK, NY 10010
tel 212.689.5380

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
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TRACE POOL DESIGN
339 WESTCHESTER AVENUE
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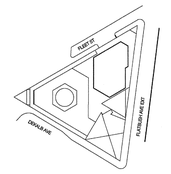
tel 914.485.4250



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DATE	ISSUE	NO.	DATE	REVISION
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04/21/16	FD & BOE DOB FILING SET			

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DRAWING TITLE

PLUMBING
FLOOR PLAN - LEVEL 72 + 32'

SEAL & SIGNATURE

STATE OF NEW YORK — THOMAS E. LUCAS — 087114 — LICENSED PROFESSIONAL ENGINEER

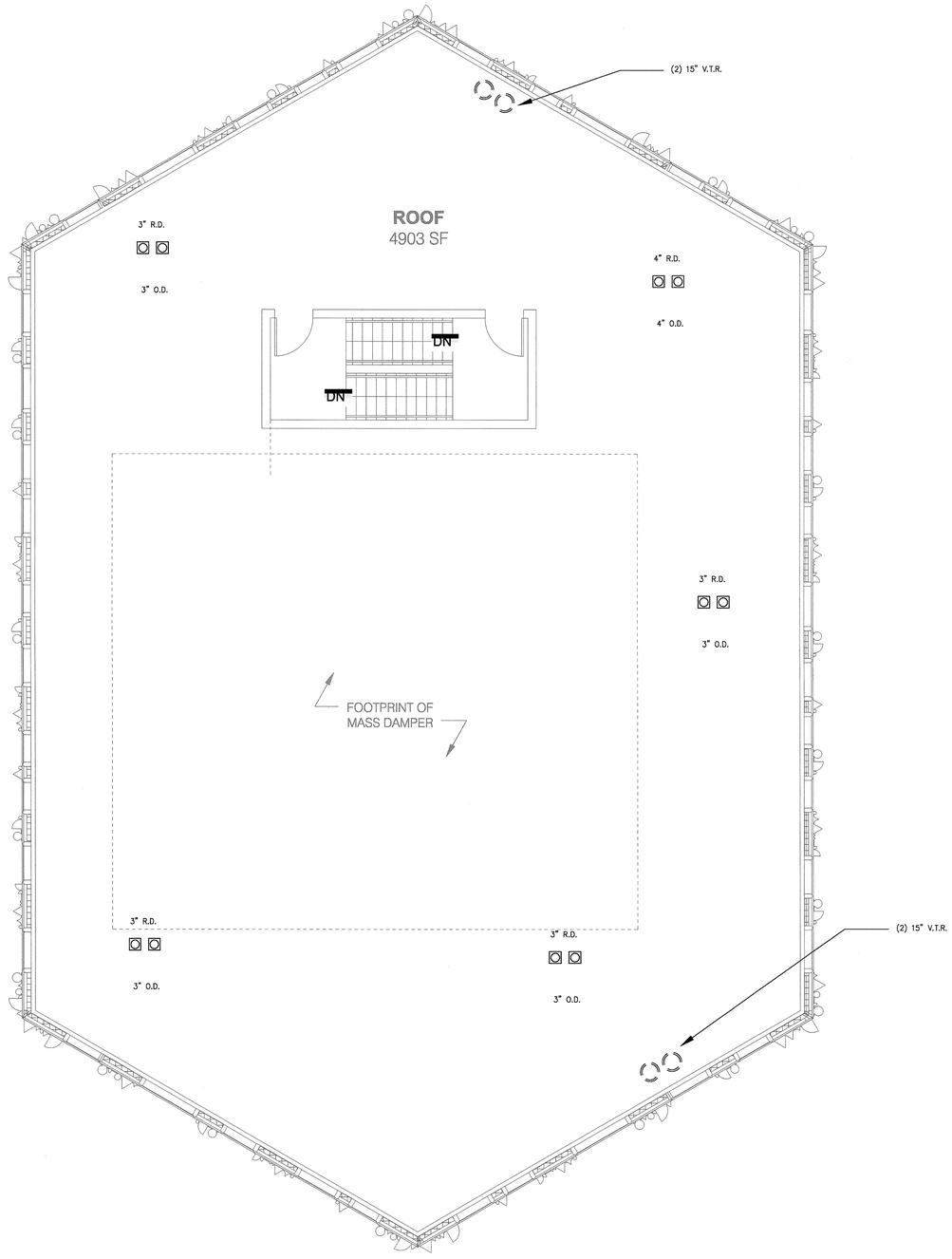
DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338

DRAWING NUMBER

P-174.00

DEPT OF BLDGS 320914338 Job Number

ES1760520505 Scan Code



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JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
329 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JACOB BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
229 WEST 43TH STREET
NEW YORK, NY 10277
tel 212.697.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
333 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10035
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9328

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, #10
NEW YORK, NY 10010
tel 917.661.7600

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.665.0646

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
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NEW YORK, NY 10018
tel 212.768.6540

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NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 908
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINEERING
100 MASS STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
950 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10019
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.589.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.0325

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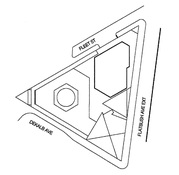
320 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.455.4250



SITE DIAGRAM

DATE	ISSUE
07/15/16	DOB FILING SET
04/01/16	FD & BOE DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

PLUMBING FLOOR PLAN - ROOF

SEAL & SIGNATURE

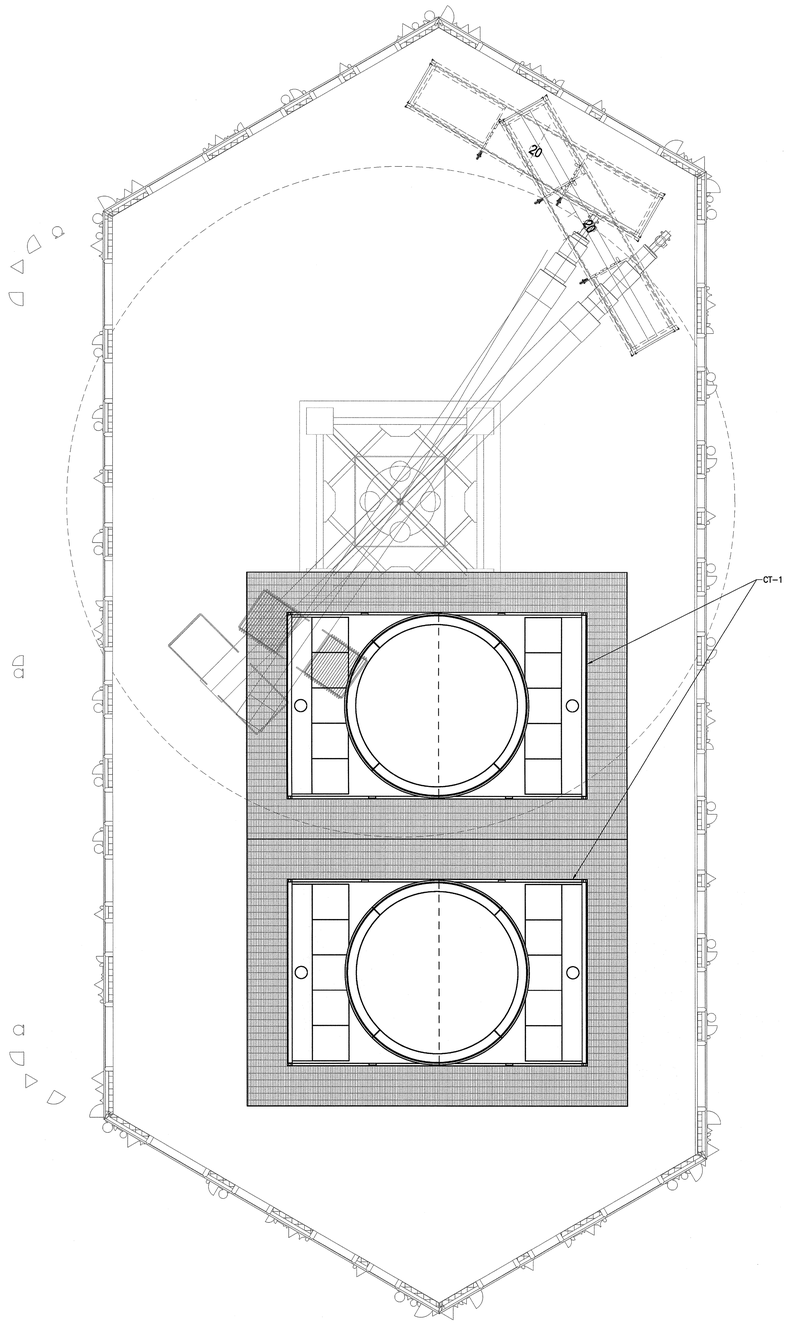
STATE OF NEW YORK — LICENSED PROFESSIONAL ENGINEER — 087114

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338

DRAWING NUMBER

P-175.00

DEPT OF BLDGS320143338 Job Number
E338847305I1 Scan Code



JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.825.5940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.359.9000

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9100

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.667.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 6TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9838

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, #19
NEW YORK, NY 10010
tel 917.661.7900

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0946

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 15A
NEW YORK, NY 10018
tel 212.768.6540

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LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 609
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
196 AXES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.211.7000

VIDARIS

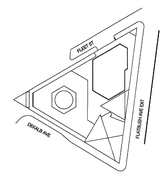
BUILDING ENERGY
VIDARIS
390 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.689.5388

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2325

Lothian TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4390



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
04/01/16	PD & BOE DOB FILING SET			

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DRAWING TITLE

PLUMBING
FLOOR PLAN - ROOF + 48'

SEAL & SIGNATURE

STATE OF NEW YORK · JAMES K. CHAN · 027113 · LICENSED PROFESSIONAL ENGINEER

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338

DRAWING NUMBER

P-176.00

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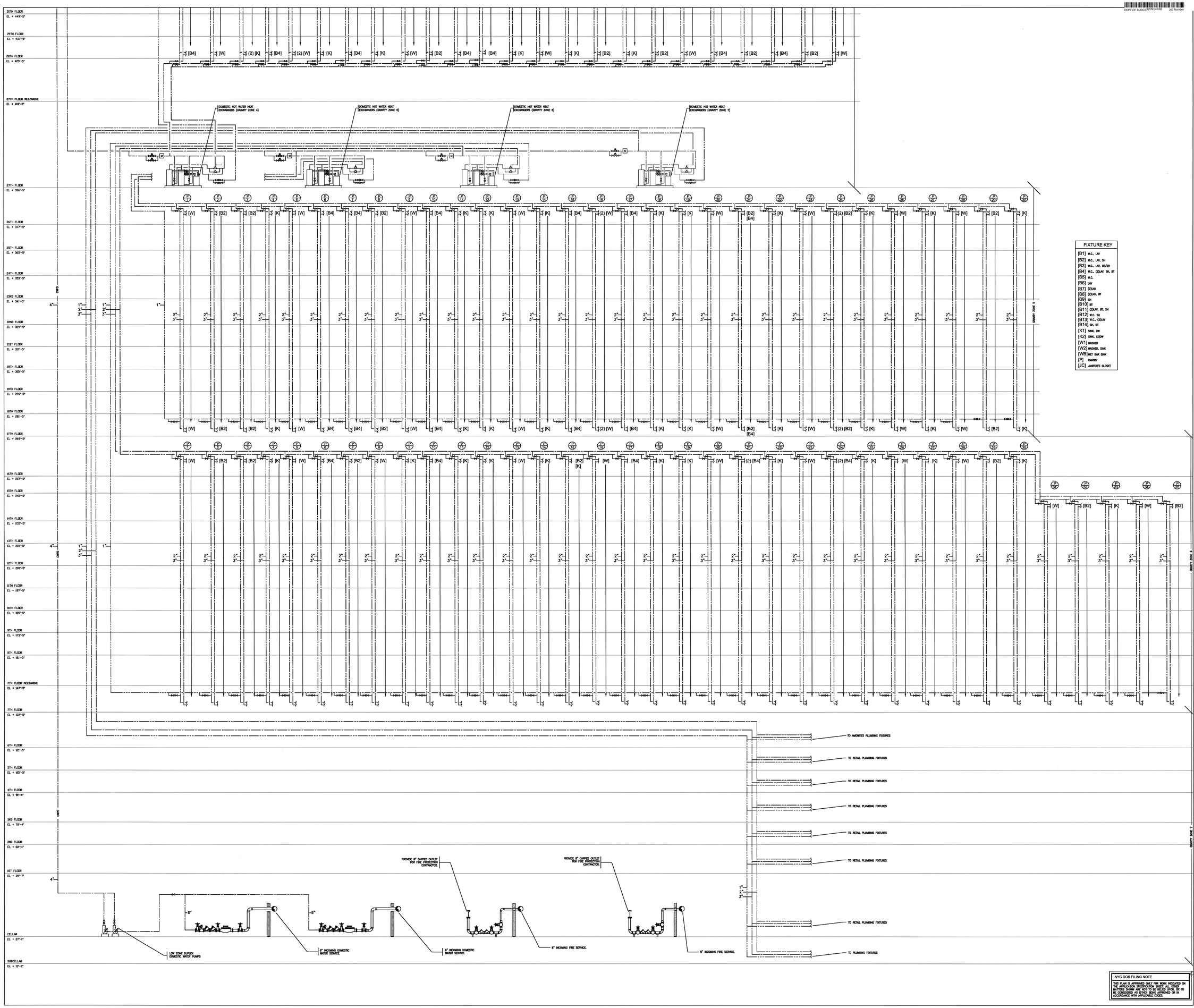
DEPT OF BLDGS 320914338 Job Number

E356452278 Scan Code



FIXTURE KEY

- [B1] W.C., LAV
- [B2] W.C., LAV, SH
- [B3] W.C., LAV, RT/SH
- [B4] W.C., CDLAV, SH, BT
- [B5] W.C.
- [B6] LAV
- [B7] CDLAV
- [B8] CDLAV, BT
- [B9] SH
- [B10] BT
- [B11] CDLAV, BT, SH
- [B12] W.C. SH
- [B13] W.C., CDLAV
- [B14] SH, BT
- [K1] SINK, DW
- [K2] SINK, CDDW
- [W1] WASHER
- [W2] WASHER, SINK
- [WB] WET BAR SINK
- [P] PANTRY
- [JC] JANITOR'S CLOSET

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.825.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.888.9055

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.5900

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
228 WEST 24TH STREET 6TH FLOOR
NEW YORK, NY 10120
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
684 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.695.0946

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS SINCE 1980

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6040

BOLD

Longman Lindsey

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 509
NEW YORK, NY 10018
tel 212.315.0480

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

SIMPSON GUMPERTZ & HEGER

BMU ENGINEER
ENTEK ENGINEERING
186 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2822

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

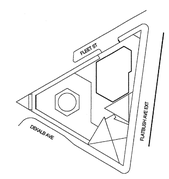
BUROHAPPOLD ENGINEERING

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10016
tel 212.689.5389

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.0335

TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
320 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.683.4290



SITE DIAGRAM

07/15/16 DOB FILING SET
04/01/16 FO & BOB DOB FILING SET

DATE ISSUE NO. DATE REVISION

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DRAWING TITLE

PLUMBING DOMESTIC WATER RISER DIAGRAM SHEET No. 1

SEAL & SIGNATURE

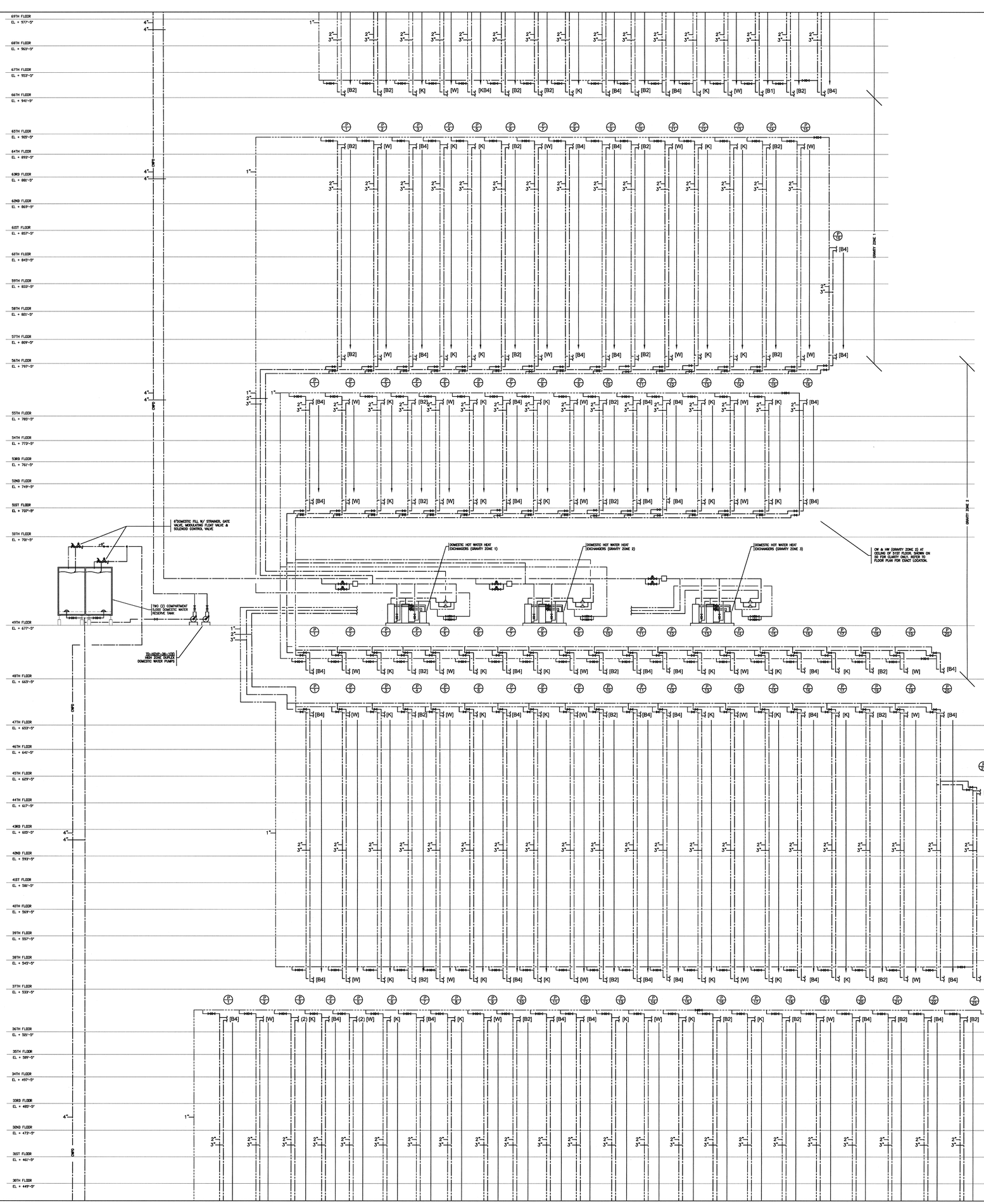
DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338

DRAWING NUMBER

P-400.00

DEPT OF BLDGS 320143338 Job Number

E350147400SB Scan Code



FIXTURE KEY

- [B1] W.C., LAV
- [B2] W.C., LAV, SH
- [B3] W.C., LAV, BT/SH
- [B4] W.C., CO/LAV, SH, BT
- [B5] W.C.
- [B6] LAV
- [B7] CO/LAV
- [B8] CO/LAV, BT
- [B9] SH
- [B10] BT
- [B11] CO/LAV, BT, SH
- [B12] W.C. SH
- [B13] W.C., CO/LAV
- [B14] SH, BT
- [K1] SINK, DW
- [K2] SINK, CDDW
- [W1] WASHER
- [W2] WASHER, SINK
- [WB] WET BAR SINK
- [P] PANTRY
- [JC] JANITOR'S CLOSET

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.825.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.359.9000

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.320.8000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.667.9888

Muner Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
220 WEST 24TH STREET 8TH FLOOR
NEW YORK, NY 10036
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
684 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.665.2646

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6040

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
186 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2800

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

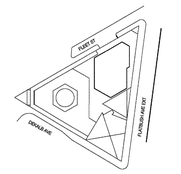
BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.589.5399

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.0025

Lahood TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4260



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
04/21/16	PD & DOB DOB FILING SET			

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DRAWING TITLE

PLUMBING DOMESTIC WATER RISER DIAGRAM SHEET No. 2

SEAL & SIGNATURE

STATE OF NEW YORK · JAMES KYLE RAMSEY · 027114 · LICENSED PROFESSIONAL ENGINEER

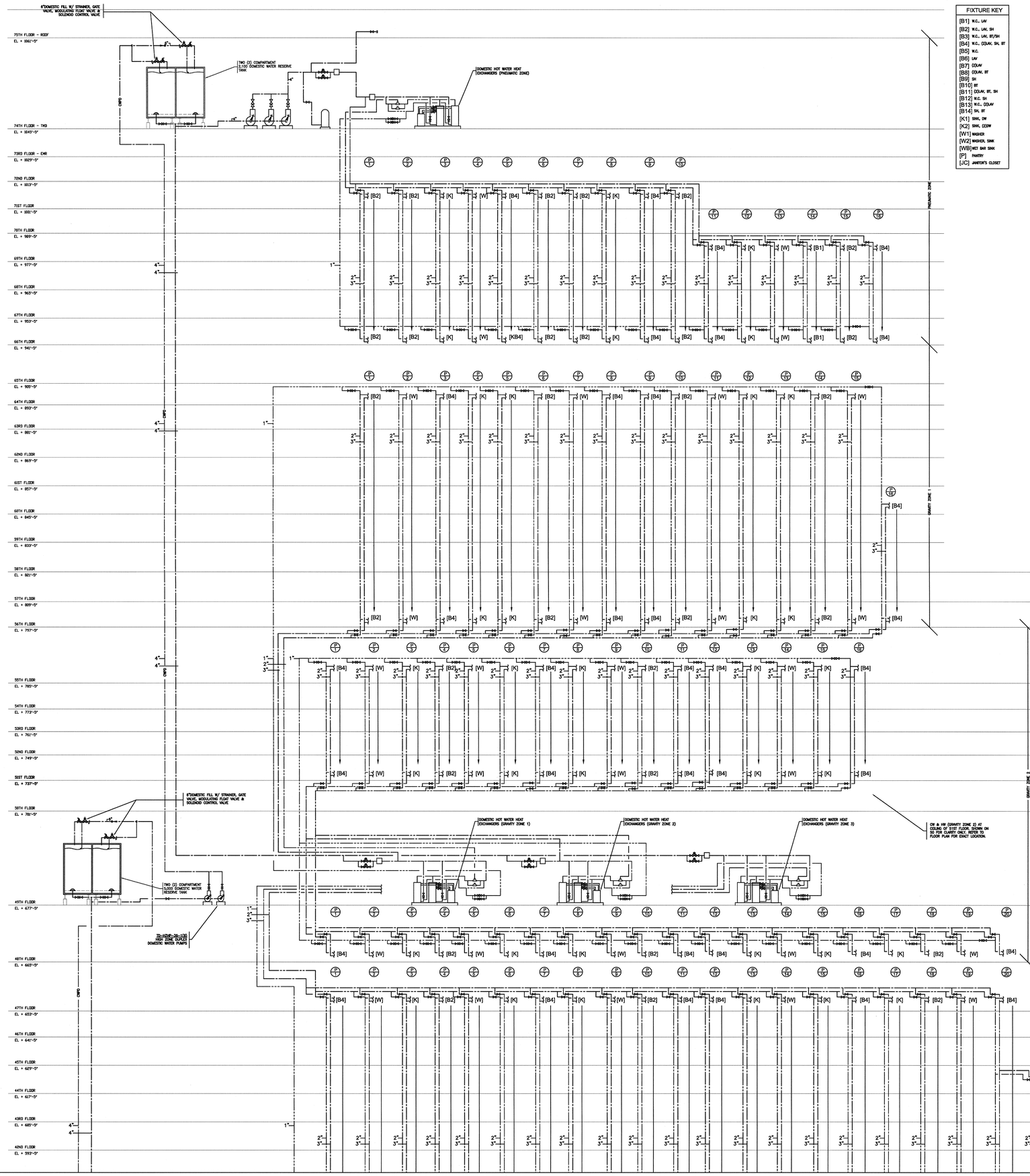
DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338

DRAWING NUMBER

P-401.00

DEPT OF BLDGS 320143338 Job Number

E350080013SS Scan Code



FIXTURE KEY

- [B1] W.C., LAV
- [B2] W.C., LAV, SH
- [B3] W.C., LAV, BT/SH
- [B4] W.C., CD/LAV, SH, BT
- [B5] W.C.
- [B6] LAV
- [B7] CD/LAV
- [B8] CD/LAV, BT
- [B9] SH
- [B10] BT
- [B11] CD/LAV, BT, SH
- [B12] W.C. SH
- [B13] W.C., CD/LAV
- [B14] SH, BT
- [K1] SINK, DW
- [K2] SINK, CD/DW
- [W1] WASHER
- [W2] WASHER, SINK
- [WB] WET BAR SINK
- [P] PANTRY
- [JC] JANITOR'S CLOSET

FIXTURE KEY

- [B1] W.C., LAV
- [B2] W.C., LAV, SH
- [B3] W.C., LAV, BT/SH
- [B4] W.C., CD/LAV, SH, BT
- [B5] W.C.
- [B6] LAV
- [B7] CD/LAV
- [B8] CD/LAV, BT
- [B9] SH
- [B10] BT
- [B11] CD/LAV, BT, SH
- [B12] W.C. SH
- [B13] W.C., CD/LAV
- [B14] SH, BT
- [K1] SINK, DW
- [K2] SINK, CD/DW
- [W1] WASHER
- [W2] WASHER, SINK
- [WB] WET BAR SINK
- [P] PANTRY
- [JC] JANITOR'S CLOSET

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.625.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
333 BROADWAY, 11TH FLOOR
NEW YORK, NY 10079
tel 212.888.9000

JBB JAROS, BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.5900

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 60TH STREET
NEW YORK, NY 10007
tel 212.897.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
333 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10001
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9838

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 ENGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.835.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7500

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.665.0646

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 29TH ST., FLOOR 10A
NEW YORK, NY 10001
tel 212.759.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 509
NEW YORK, NY 10018
tel 212.315.8450

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
186 AKINS STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.211.7090

VIDARIS

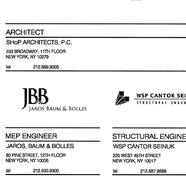
BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BURO HAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10036
tel 212.334.0395

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
359 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.465.4290



SITE DIAGRAM

07/15/16 DOB FILING SET
04/21/16 FO & DOS DOB FILING SET

DATE ISSUE NO. DATE REVISION

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DRAWING TITLE:

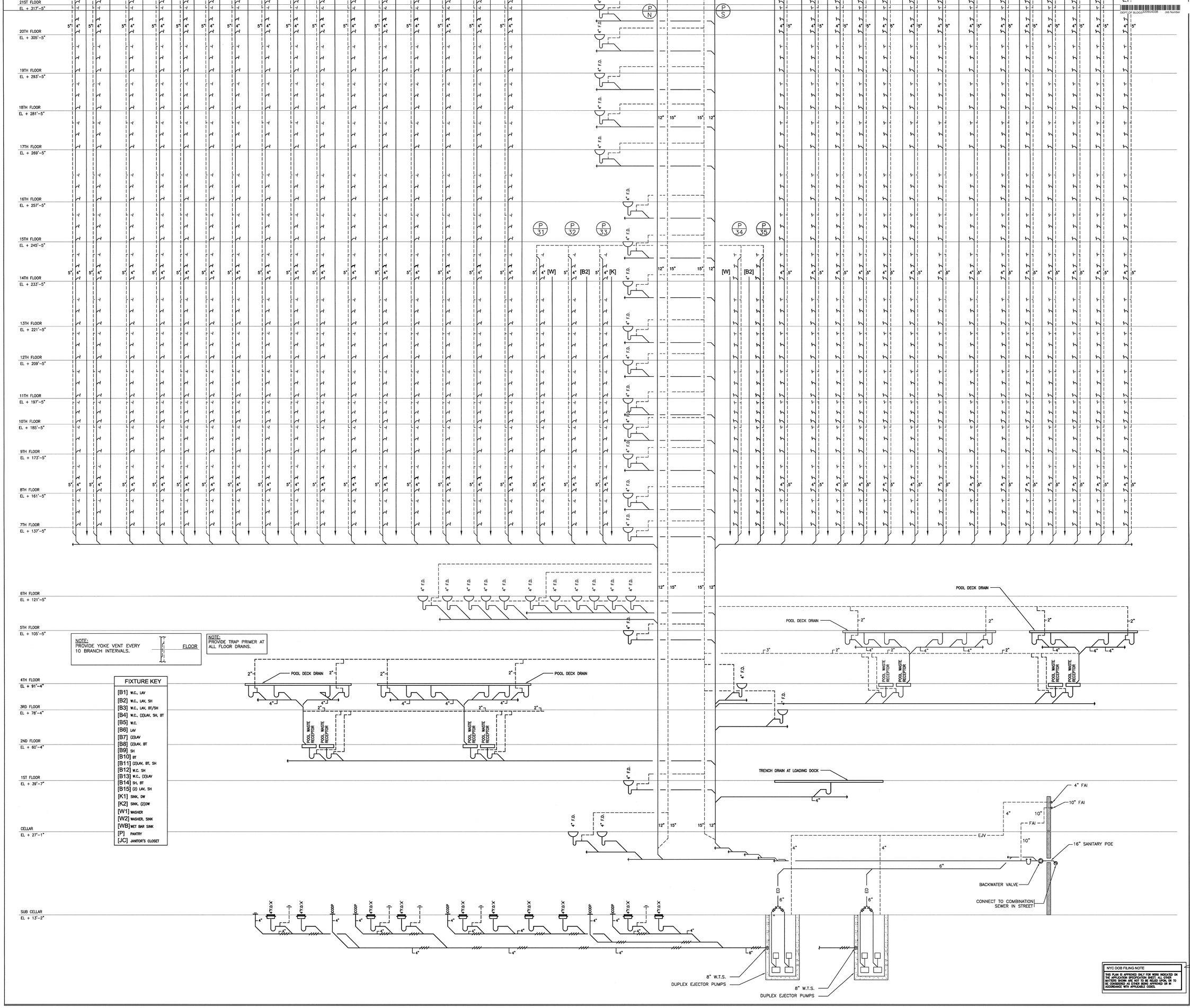
PLUMBING DOMESTIC WATER RISER DIAGRAM SHEET No. 3

SEAL & SIGNATURE

STATE OF NEW YORK — 087114 — REGISTERED PROFESSIONAL ENGINEER

DATE 07.15.2016
PROJECT NO. 15466.0
DRAWN BY SR
CHECKED BY CL
DOB NO. 320914338
DRAWING NUMBER

P-402.00



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DEPT OF BUILDINGS 320014338 Job Number
E3123777952 Scan Code

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
109 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
333 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.888.9000

JBB JAROS BAUM & BOLLES

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
220 WEST 42TH STREET
NEW YORK, NY 10017
tel 212.667.0998

Mueser Rutledge Consulting Engineers

AKRF

GEOTECHNICAL ENGINEER
MRCE
233 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

vda

Thornton Tomasetti

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 CHUBB ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.835.3840

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7500

GACHOT

JHPA JAN HIRD POKORNY ASSOCIATES

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10016
tel 646.666.0846

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6540

BOLD

Longman Lindsey

LIGHTING
BOLD
207 WEST 25TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

SIMPSON GUMPERTZ & HEGER

BMU ENGINEER
ENTEK ENGINNERING
168 AKKS STREET
MADISONBORO, NJ 07901
tel 201.820.2802

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.211.7200

VIDARIS

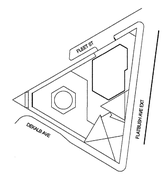
BUROHAPPOLD ENGINEERING

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.689.5388

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2005

LOTUS TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.455.4290



SITE DIAGRAM

07/15/16 DOB FILING SET
04/01/16 PC & BOE DOB FILING SET

DATE ISSUE NO. DATE REVISION

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DRAWING TITLE

PLUMBING SANITARY RISER DIAGRAM SHEET No. 1

SEAL & SIGNATURE

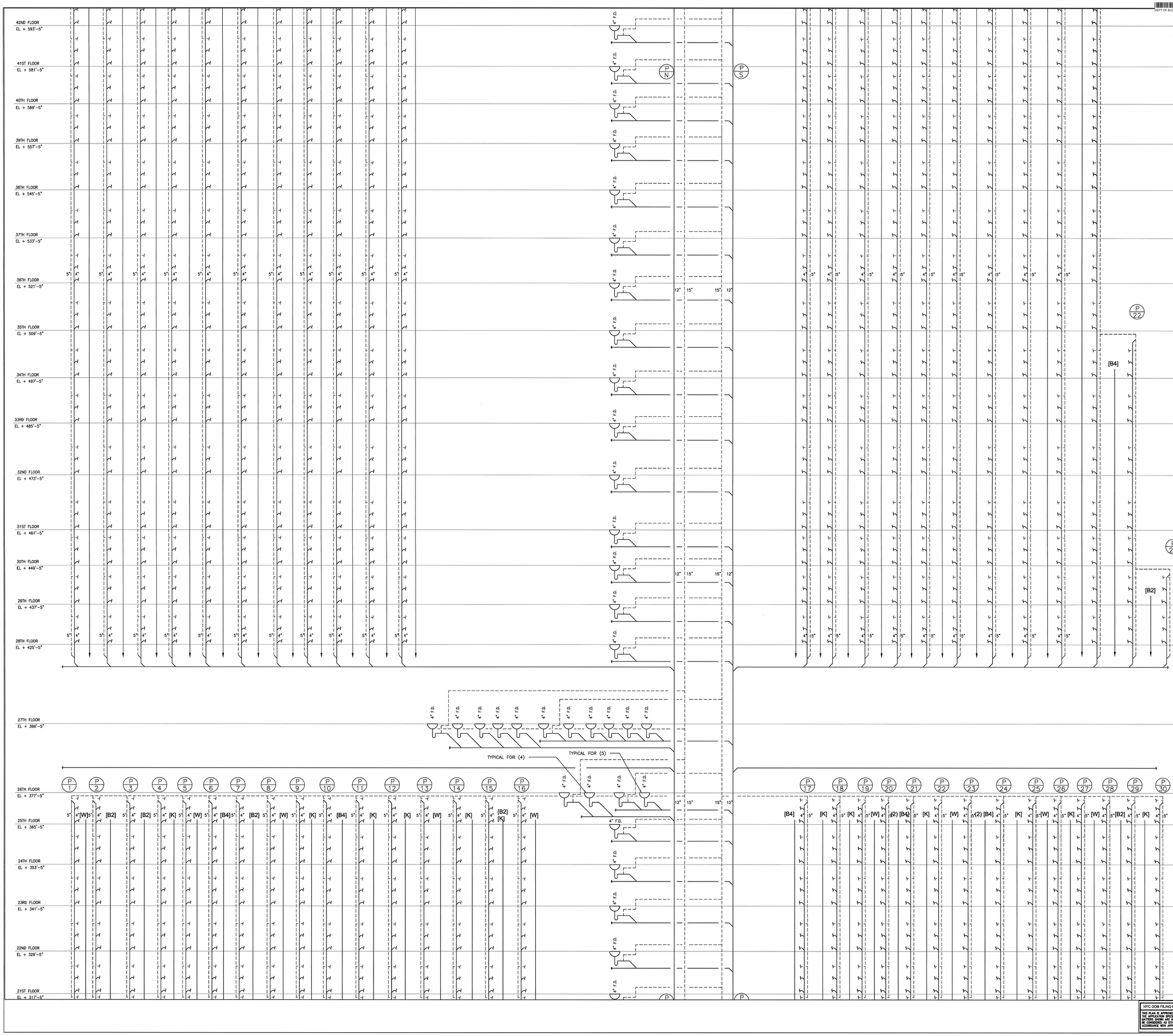
STATE OF NEW YORK — CHARLES RAE LEE — LICENSED PROFESSIONAL ENGINEER — 087114

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338

DRAWING NUMBER

P-403.00

BSFT OF BLDGS 320914338 Job Number
ESI1900539647 Scan Code



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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.625.3940

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ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.389.9500

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MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.8000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.667.9588

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 8TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.695.0946

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.5040

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LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.213.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
198 AVES STREET
HAZLEWOOD, NJ 07601
tel 201.820.2662

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
555 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
350 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.668.5380

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.5335

LaBrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4390

SITE DIAGRAM

07/18/18 DOB FILING SET
04/01/18 FD & BOE DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

PLUMBING SANITARY RISER DIAGRAM SHEET No. 2

SEAL & SIGNATURE

STATE OF NEW YORK JAMES A. KRAUS 087114 LICENSED PROFESSIONAL ENGINEER

DATE	07.18.2018
PROJECT NO.	15466.0
DRAWN BY	BH
CHECKED BY	CL
DOB NO.	320914339

DRAWING NUMBER

P-404.00

DEPT OF BLDGS 320143338 Job Number

E3610000305075 Scan Code

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.605.3940

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
250 BROOME, 11TH FLOOR
NEW YORK, NY 10279
tel 212.909.9005

JBB JAROS BAUM & BOLLES

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

MEP ENGINEER
JAROS, BAUM & BOLLES
90 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.6000

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 46TH STREET
NEW YORK, NY 10277
tel 212.687.9966

Mueser Rutledge Consulting Engineers

AKRF

GEOTECHNICAL ENGINEER
MRCE
232 WEST 24TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

vda

Thornton Tomasetti

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.605.3940

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

JHPA JAN HIRD POKORNY ASSOCIATES

INTERIORS
GACHOT
594 BROADWAY SUITE 609
NEW YORK, NY 10012
tel 646.660.0946

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 10A
NEW YORK, NY 10018
tel 212.759-0340

BOLD

Longman Lindsey

LIGHTING
BOLD
207 WEST 25TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.0400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

SIMPSON GUMPERTZ & HEGER

BMU ENGINEER
ENTEK ENGINEERING
198 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

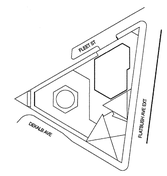
BUROHAPPOLD ENGINEERING

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 16TH FLOOR
NEW YORK, NY 10010
tel 212.668.5389

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2225

LOMBARD TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4090



SITE DIAGRAM

07/15/16 DOB FILING SET

04/01/16 PC & BOE DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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PLUMBING SANITARY RISER DIAGRAM SHEET No. 3

SEAL & SIGNATURE

STATE OF NEW YORK · JAMES S. CAMPBELL · 087114 · LICENSED PROFESSIONAL ENGINEER

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338
DRAWING NUMBER	P-405.00

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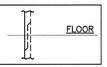
DEPT OF BLDGS 320914338 Job Number
E380061333397 Scan Code

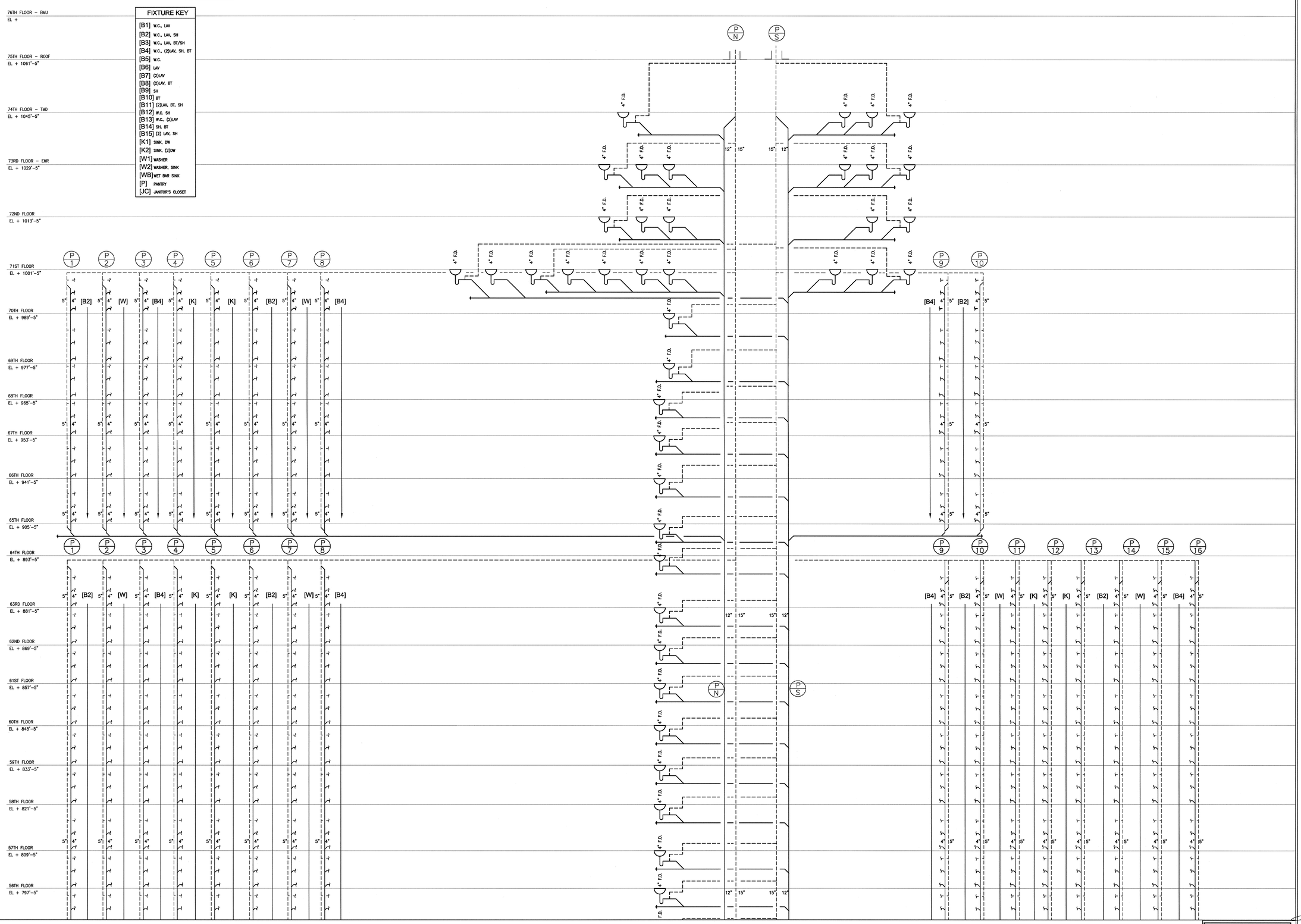
NOTE:
PROVIDE YOKE VENT EVERY 10 BRANCH INTERVALS.



NOTE:
PROVIDE TRAP PRIMER AT ALL FLOOR DRAINS.

FIXTURE KEY

- [B1] W.C., LAV
- [B2] W.C., LAV, SH
- [B3] W.C., LAV, BT/SH
- [B4] W.C., (2)LAV, SH, BT
- [B5] W.C.
- [B6] LAV
- [B7] (2)LAV
- [B8] (2)LAV, BT
- [B9] SH
- [B10] BT
- [B11] (2)LAV, BT, SH
- [B12] W.C. SH
- [B13] W.C., (2)LAV
- [B14] SH, BT
- [B15] (2) LAV, SH
- [K1] SINK, DW
- [K2] SINK, (2)DW
- [W1] WASHER
- [W2] WASHER, SINK
- [WB] WET BAR SINK
- [P] PANTRY
- [JC] JANITOR'S CLOSET



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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.825.3040

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.6005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.867.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 54TH STREET 6TH FLOOR
NEW YORK, NY 10019
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE/SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3040

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6040

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 609
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

SIMPSON GUMPERTZ & HEGER

BMU ENGINEER
ENTEK ENGINEERING
186 AXIS STREET
HACKENSACK, NJ 07601
tel 201.820.2800

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
950 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10019
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
880 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.686.5369

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2325

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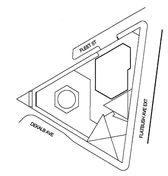
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4295



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DATE	ISSUE	NO.	DATE	REVISION
07/15/16	DOB FILING SET			
04/01/16	PO & BOE DOB FILING SET			

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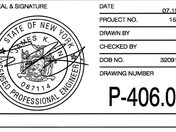
DRAWING TITLE

PLUMBING SANITARY RISER DIAGRAM SHEET No. 4

SEAL & SIGNATURE

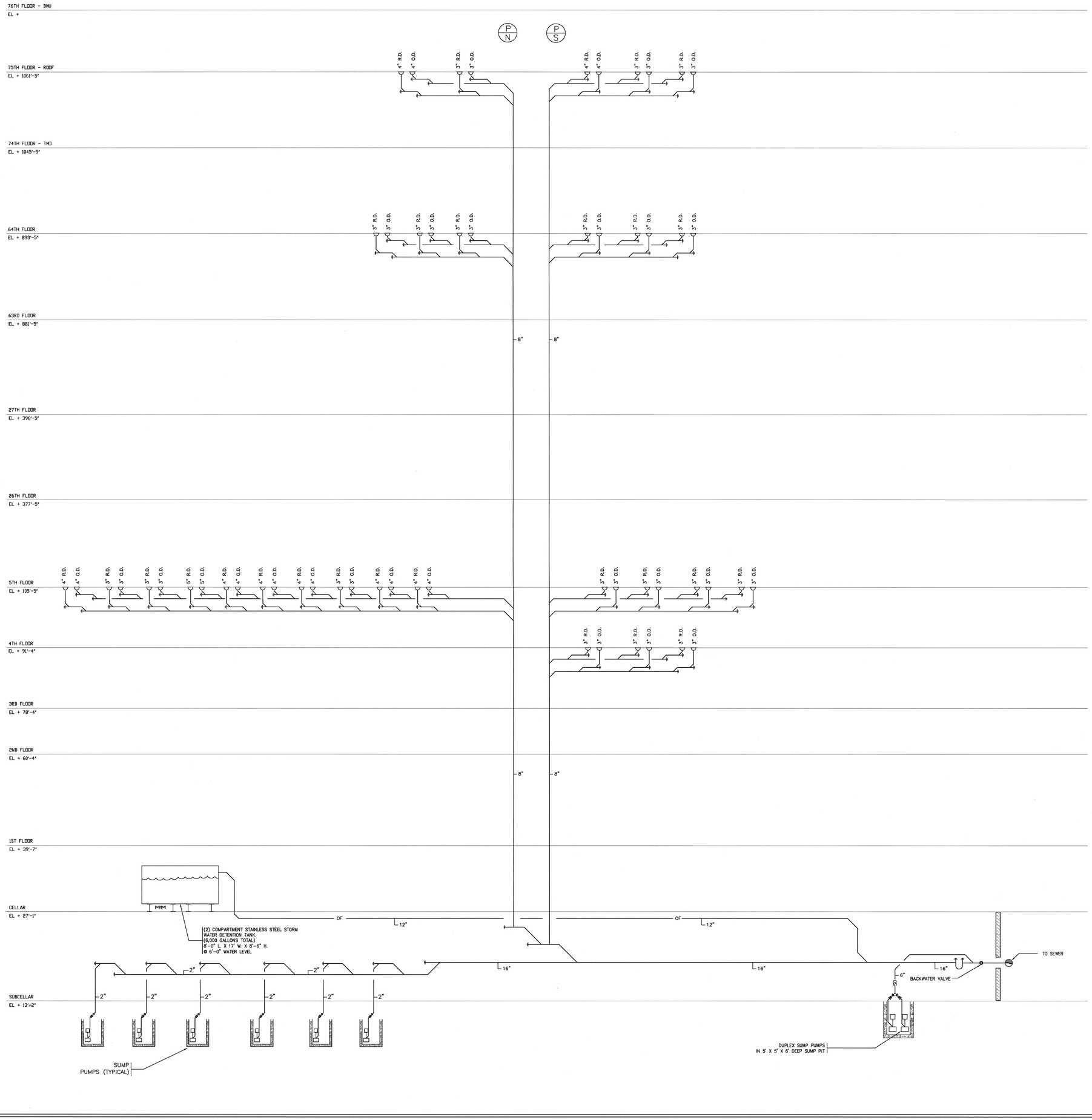


DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338

DRAWING NUMBER

P-406.00

DEPT OF BLDGS 320914308 Job Number
B320914308 Scan Code



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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
329 BROADWAY, 11TH FLOOR
NEW YORK, NY 10079
tel 212.888.9055

JBB JACOB BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.667.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 24TH STREET 6TH FLOOR
NEW YORK, NY 10025
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
150 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
864 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.695.0946

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 15A
NEW YORK, NY 10018
tel 212.768.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.874.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 509
NEW YORK, NY 10018
tel 212.315.6440

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
188 AMOS STREET
WAYCROSS, NJ 07801
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
600 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.668.0389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2085

TRACE POOL DESIGN

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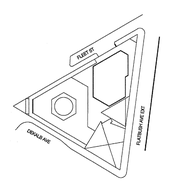
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4290



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DATE	ISSUE	NO.	DATE	REVISION
07/15/18	DOB FILING SET			
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DRAWING TITLE

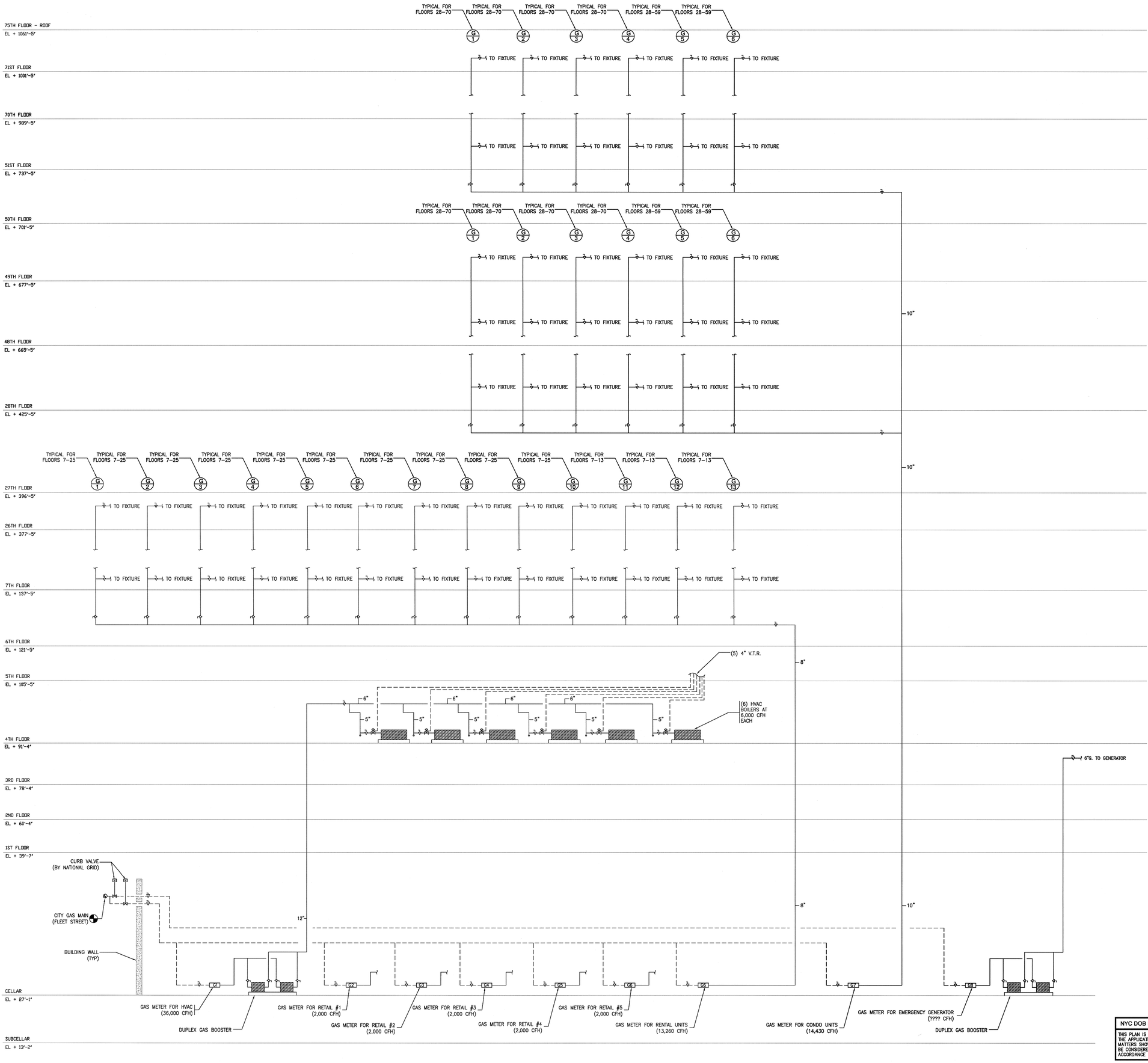
PLUMBING STORM RISER DIAGRAM SHEET

SEAL & SIGNATURE

STATE OF NEW YORK — JAMES R. SCHMIDT — 029115 — LICENSED PROFESSIONAL ENGINEER

DATE	07.15.2018
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	GL
DOB NO.	320914308
DRAWING NUMBER	P-407.00

CERT OF BLDG 320914338 Job Number
E350433532270 Scan Code



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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10001
tel 646.605.3940

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.359.9005

JBB JACOS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.5000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.667.9668

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 36TH STREET 8TH FLOOR
NEW YORK, NY 10018
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.605.3940

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7500

GACHOT

INTERIORS
GACHOT
684 BROADWAY SUITE 928
NEW YORK, NY 10012
tel 646.605.3940

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

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LIGHTING
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237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.874.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 608
NEW YORK, NY 10018
tel 212.213.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
186 AVES STREET
WEDGEWOOD, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.211.7000

VIDARIS

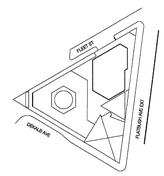
BUILDING ENERGY
VIDARIS
380 FIFTH AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5388

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.0325

LANGAN TRANSPORTATION DIVISION

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4280



SITE DIAGRAM

07/15/16 DOB FILING SET
04/21/16 FO & SOE DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

PLUMBING GAS RISER DIAGRAM SHEET

SEAL & SIGNATURE

STATE OF NEW YORK · CHRISTOPHER LEE · 087114 · LICENSED PROFESSIONAL ENGINEER

DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338
DRAWING NUMBER	P-408.00

ARCHIVE DOCUMENT 320914338 Job Number
B1000809044 Sheet Index

PRESSURE VESSELS AND HEATERS

	NO. REQUIRED	MODEL	STORAGE WATER TEMP.	GALS./HTR.	SIZE	W.W.P.(PSI)	VOLTAGE	PHASE	CYCLES	STEAM PRESSURE (PSIG)	G.P.H./HTR.	TEMP. RISE F	BTU/HR.	BOILER WATER FLOW GPM	STEAM LOAD #/HR/HEATER	DOMESTIC WATER FLOW GPM	LOCATION	NOTES
*	HOT WATER HEAT EXCHANGERS–74(1)	2	FPS DHWG–HX	–	–	48" x 48" X 75"	150	120	1	60	–	146	100	121,618 BTU/HR	5	–	3	74TH FLOOR (PNEUMATIC)	DHW GENERATING PACKAGE
	HOT WATER STORAGE TANKS–74(1)	2	HUBBELL SH250–V	140	250	40"ø X 74"	150	–	–	–	–	–	–	–	–	–	–	74TH FLOOR (PNEUMATIC)	
*	HOT WATER HEAT EXCHANGERS–49(1)	2	FPS DHWG–HX	–	–	48" x 48" X 75"	150	120	1	60	–	249	100	207,417 BTU/HR	10	–	5	49TH FLOOR (ZONE 1)	DHW GENERATING PACKAGE
	HOT WATER STORAGE TANKS–49(1)	2	HUBBELL SH400–V	140	400	46"ø X 85"	150	–	–	–	–	–	–	–	–	–	–	49TH FLOOR (ZONE 1)	
*	HOT WATER HEAT EXCHANGERS–49(2)	2	FPS DHWG–HX	–	–	48" x 48" X 75"	150	120	1	60	–	231	100	192,423 BTU/HR	8	–	4	49TH FLOOR (ZONE 2)	DHW GENERATING PACKAGE
	HOT WATER STORAGE TANKS–49(2)	2	HUBBELL SH375–V	140	375	46"ø X 81"	150	–	–	–	–	–	–	–	–	–	–	49TH FLOOR (ZONE 2)	
*	HOT WATER HEAT EXCHANGERS–49(3)	2	FPS DHWG–HX	–	–	48" x 48" X 75"	150	120	1	60	–	417	100	347,361 BTU/HR	14	–	7	49TH FLOOR (ZONE 3)	DHW GENERATING PACKAGE
	HOT WATER STORAGE TANKS–49(3)	2	HUBBELL SH700–V	140	700	52"ø X 107"	150	–	–	–	–	–	–	–	–	–	–	49TH FLOOR (ZONE 3)	
*	HOT WATER HEAT EXCHANGERS–27(1)	2	FPS DHWG–HX	–	–	48" x 48" X 75"	150	120	1	60	–	373	100	310,709 BTU/HR	12	–	6	27TH FLOOR (ZONE 4)	DHW GENERATING PACKAGE
	HOT WATER STORAGE TANKS–27(1)	2	HUBBELL SH600–V	140	600	52"ø X 95"	150	–	–	–	–	–	–	–	–	–	–	27TH FLOOR (ZONE 4)	
*	HOT WATER HEAT EXCHANGERS–27(2)	2	FPS DHWG–HX	–	–	48" x 48" X 75"	150	120	1	60	–	513	100	427,329 BTU/HR	18	–	9	27TH FLOOR (ZONE 5)	DHW GENERATING PACKAGE
	HOT WATER STORAGE TANKS–27(2)	2	HUBBELL SH800–V	140	800	52"ø X 119"	150	–	–	–	–	–	–	–	–	–	–	27TH FLOOR (ZONE 5)	
*	HOT WATER HEAT EXCHANGERS–27(3)	2	FPS DHWG–HX	–	–	48" x 48" X 75"	150	120	1	60	–	585	100	487,305 BTU/HR	20	–	10	27TH FLOOR (ZONE 6)	DHW GENERATING PACKAGE
	HOT WATER STORAGE TANKS–27(3)	2	HUBBELL SH900–V	140	900	52"ø X 132"	150	–	–	–	–	–	–	–	–	–	–	27TH FLOOR (ZONE 6)	
*	HOT WATER HEAT EXCHANGERS–27(4)	2	FPS DHWG–HX	–	–	48" x 48" X 75"	150	120	1	60	–	585	100	487,305 BTU/HR	20	–	10	27TH FLOOR (ZONE 7)	DHW GENERATING PACKAGE
	HOT WATER STORAGE TANKS–27(4)	2	HUBBELL SH900–V	140	900	52"ø X 132"	150	–	–	–	–	–	–	–	–	–	–	27TH FLOOR (ZONE 7)	
	PNEUMATIC TANK –PT–1	1	AMTROL WX–457C	–	528	42"ø 97"	150	–	–	–	–	–	–	–	–	–	–	74TH FLOOR (PNEUMATIC)	

* PROVIDE FPS DHWG–HX SERIES DOMESTIC HOT WATER GENERATING SKID PACKAGE W/ DUPLEX HEAT EXCHANGERS, CONTROL VALVES & CONTROLLER. DUPLEX HOT WATER HEAT EXCHANGERS W/ SKID PACKAGE SHALL BE PLATE CONCEPTS DOUBLE WALL HEAT EXCHANGERS. HOT WATER STORAGE TANKS SHALL BE STANDALONE AS SCHEDULED ABOVE.

* TEMPERATURE TO BE SET BY MANUFACTURER.

NON-PRESSURE VESSELS, PITS AND PADS

	NO. REQUIRED	COMPARTMENTS	USABLE DOMESTIC WATER (GALLONS)	USABLE FSP/SPRINKLER (GALLONS)	USABLE COOLING TOWER MAKE-UP (GALLONS)	TOTAL USABLE WATER STORAGE (GALLONS)	SIZE	MATERIAL	LOCATION
EJECTOR PIT	2	1	–	–	–	–	5'–0" x 5'–0" x 8'–0" DEEP	CONCRETE	SUB CELLAR
SUMP PIT	2	1	–	–	–	–	5'–0" x 5'–0" x 6'–0" DEEP	CONCRETE	SUB CELLAR
SAND INTERCEPTOR	2	1	–	–	–	–	5'–0" x 3'–0" x 8'–0" DEEP	CONCRETE	SUB CELLAR
ELEVATOR SUMP PIT	6	1	–	–	–	–	2'–0" x 2'–0" x 2'–0" DEEP	CONCRETE	SUB CELLAR

PUMP SCHEDULE

	NO. REQUIRED	G.P.M/S.C.F.M./C.F.H.	MAX. T.D.H. (SHUTOFF)	MIN. T.D.H.	MECH. SEAL	MODEL	STAGES	SUBMERSIBLE	INLINE	END SUCTION	HORIZONAL SPLIT	VERTICAL CAN	MAX. WORKING PRESSURE/P.S.I.	H.P.	R.P.M.	VOLTS	PHASE	CYCLE	MANUAL CONT'L.	STARTING STEPS	AUTO CONT'L.	PILOT LIGHT	PRESSURE GAUGE RANGE	METAL BASIN	CONCRETE PIT	CONTROL CENTER	LOCATION
DUPLEX SEWAGE EJECTOR PUMPS – SE(1)	2	200		20	●		1	●					150	2	1720	460	3	60			●	●	0–200		●	●	SUB–CELLAR
DUPLEX SUMP PUMPS – SP(1)	2	200		20	●		1	●					150	2	1720	460	3	60			●	●	0–200		●	●	SUB–CELLAR
DUPLEX SEWAGE EJECTOR PUMPS – SE(2)	2	200		20	●		1	●					150	2	1720	460	3	60			●	●	0–200		●	●	SUB–CELLAR
DUPLEX SUMP PUMPS – SP(2)	2	200		20	●		1	●					150	2	1720	460	3	60			●	●	0–200		●	●	SUB–CELLAR
HOT WATER CIRCULATION PUMP (HWCP) DUPLEX	16	35	20	18	●		1		●				150	2/5	3200	120	1	60			●		0–200				
LOW ZONE DOMESTIC WATER HOUSE PUMPS – LZHP–1	2	200		676	●		2				●		350	60	3500	460	3	60			●	●	0–200			●	CELLAR
HIGH ZONE DOMESTIC WATER HOUSE PUMPS – HZHP–1	2	160		456	●		2				●		350	40	3500	460	3	60			●	●	0–200			●	LEVEL 49
PNEUMATIC BOOSTER PUMPS –PZHP–1	3	175		115	●		2					●	250	7.5	3500	460	3	60			●	●	0–200			●	LEVEL 74
SIMPLEX SUMP PUMPS	6	50		20	●		3	●						1	3600	460	3	60			●	●	0–200			●	SUB–CELLAR

FIXTURE CONNECTION SCHEDULE

FIXTURES		FIXTURE NO.					S	W	V	HW	CW	DW	RIM HT.	REMARKS
WATER CLOSET		P–1	P–1A	P–1B	P–1C									
WALL HUNG	FLUSH VALVE	●					4"		2"		1¼"			
	FLUSH VALVE		●				4"		2"		1¼"			ADA
	FLUSH TANK						4"		2"		⅜"			
	FLUSH TANK						4"		2"		⅜"			
FLOOR STANDING	FLUSH VALVE			●			4"		2"		1¼"		1'–4"	
	FLUSH VALVE				●		4"		2"		1¼"		1'–6"	
	FLUSH TANK						4"		2"		⅜"		1'–6"	
	FLUSH TANK						4"		2"		⅜"		1'–6"	
URINALS		P–2	P–2A											
	WASH–OUT	●						2"	1½"		1"		2'–0"	
	WASA		●					2"	1½"		1¼"		2'–0"	ADA
	SIPHON–JET							2"	1½"		1"		2'–0"	
	SIPHON–JET							2"	1½"		1¼"		1'–3"	
LAVATORIES		P–3	P–3A	P–3B	P–3C	P–3D								
UNDER COUNTER		●						3"	1½"	½"	½"		2'–10"	
SERVICE SINKS		P–4												
	WALL HUNG							3"	1½"	¾"	¾"			
	FLOOR RECESSED							3"	1½"	¾"	¾"			
	RECEPTOR	●						3"	1½"	¾"	¾"			
SHOWER		P–5	P–5A											
		●	●					2"	2"	¾"	¾"			
SINKS		P–7	P–7A											
	KITCHEN	●						3"	1½"	¾"	¾"			

DRAIN SCHEDULE

	DESIGNATION REQUIRED	ZURN SERIES NO.	BODY: CAST. IRON	LACQUER COATED	GALVANIZED	ALL BRONZE	NICKEL BRONZE	BOTTOM OUTLET	45 OUTLET	SIDE OUTLET	OTHER OUTLET	CLAMPING DEVICE	BACK WATER VALVE	THREADED OUTLET	NO HUB	INSIDE GASKET	INSIDE CAULKED	SUMP RECIEVER	ACID RESISTANT COATED	STRAINER: CAST. IRON	LACQUER COATED	GALVANIZED	SEDIMENT BUCKET	SECONDARY STRAINER	BRONZE	NICKEL BRONZE	CHROME PLATED	POLISHED FINISH	SATIN FINISH	TRACTOR GRATE	SOLID COVER	FUNNEL TOP	FLAT TOP	HIGH DOME	LOW DOME	EXTENSION PIECE	VERTICAL ADJUSTMENT	TOP SIZE	ANGLE TYPE	RAISED LIP	DEX–O–TEX FLANGE	FLUSHING CONNECTION	REMARKS: GENERAL AREA OR LOCATION
A	●	Z521	●	●				●				●				●				●	●																●	12"					MECH. RM.
B	●	Z415	●	●				●				●				●				●					●								●		●		●	6"					TOILET ROOM
C	●	Z415B	●	●				●				●				●													●	●							●	6"					SHOWER DRAIN
D	●	Z100–DX	●	●				●				●				●				●				●											●	●	●	15"					ROOF / OVERFLOW DRAIN
E	●	ZS880		●				●				●			●																		●					38"					SHOWER TRENCH DRAIN (SSTL)
F	●	Z100	●	●				●				●				●				●			●	●									●		●	●	15"					AREA DRAIN
G	●	Z667	●	●				●								●				●																	6"					TRENCH DRAIN
H	●	Z110	●	●				●				●						●		●			●												●		10"			●		PLANTER DRAIN
I	●	Z125	●	●				●				●				●				●															●	●	8"					PLENUM DRAIN
J	●	Z415–7B	●	●				●				●			●					●					●											●	7"					POOL DECK

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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POOL
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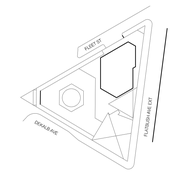
WHITE PLAINS, NY 10604
tel 914.455.4795



SITE DIAGRAM

07/15/16 DOB FILING SET
04/01/16 FD & SOE DOB FILING SET

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PLUMBING SCHEDULE SHEET

SEAL & SIGNATURE

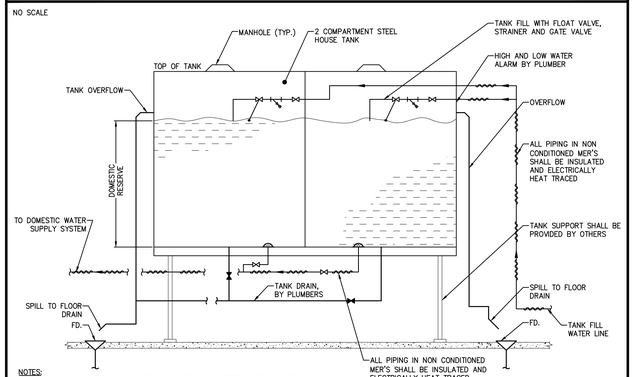
DATE 07.15.2016
PROJECT NO. 15466.0
DRAWN BY SR
CHECKED BY CL
DOB NO. 320914338
DRAWING NUMBER

P-500.00

PART OF BLOCK/LOT 07515/35 Job Number
3 0007 0006 35 Sheet Number

DOMESTIC WATER PIPING SCHEMATIC FOR TANK AT MER

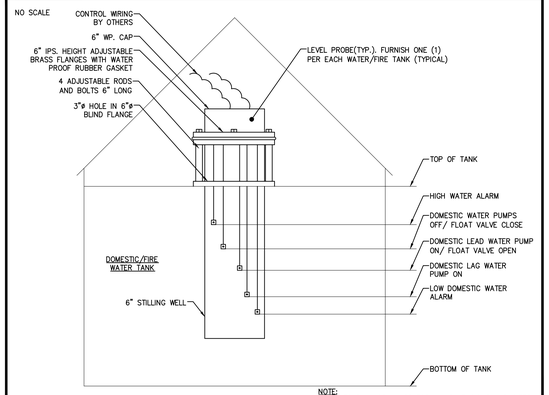
NO SCALE



NOTES:
1. FOR TANK ELEVATIONS, CAPACITY AND DIMENSIONS REFER TO THE FLOOR PLANS AND SCHEDULES.
2. REFER TO THE FLOOR PLANS FOR PIPE SIZES.
3. ALL WATER PIPING LOCATED IN NON CONDITIONED MER SPACES SHALL BE INSULATED AND ELECTRICALLY HEAT TRACED (TYPICAL)

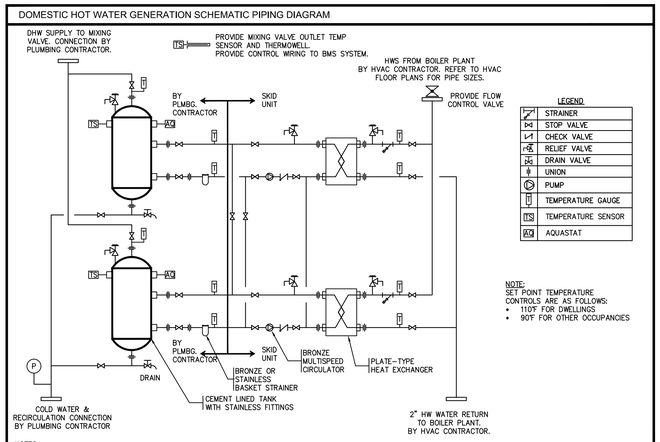
PROBE CONTROL DETAIL FOR DOMESTIC WATER TANK AT ROOF

NO SCALE



NOTE:
REFER TO PLAN DRAWINGS FOR ALL DIMENSIONS AND SIZES.

DOMESTIC HOT WATER GENERATION SCHEMATIC PIPING DIAGRAM



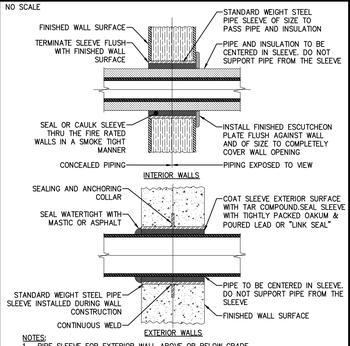
LEGEND	
	STRAINER
	STOP VALVE
	CHECK VALVE
	RELIEF VALVE
	DRAIN VALVE
	UNION
P	PUMP
	TEMPERATURE GAUGE
TS	TEMPERATURE SENSOR
AQ	AQUASTAT

NOTE:
SET POINT TEMPERATURE CONTROLS ARE AS FOLLOWS:
- 110°F FOR DWELLINGS
- 90°F FOR OTHER OCCUPANCIES

NOTES:
PIPING SCHEMATIC ABOVE PROVIDED AS SKID PACKAGED UNIT. DIAGRAM SHOWN FOR REFERENCE ONLY.
PROVIDE CONNECTIONS BY PLUMBING & HVAC CONTRACTOR AS INDICATED ABOVE..
PROVIDE DOUBLE WALL HEAT EXCHANGERS WITH SKID PACKAGED UNIT.

TYPICAL PIPE SLEEVES THROUGH WALL

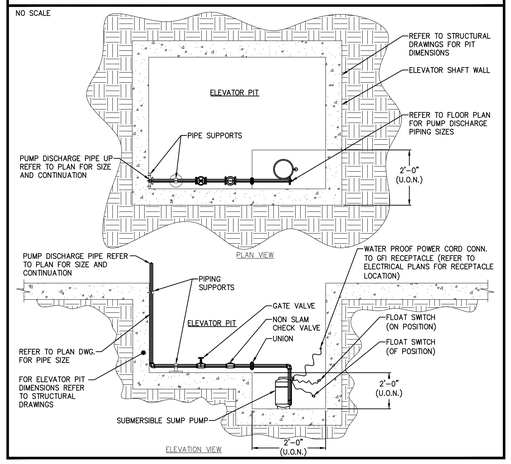
NO SCALE



NOTES:
1. PIPE SLEEVE FOR EXTERIOR WALL ABOVE OR BELOW GRADE.
2. FOR GAS SERVICE, EXTEND SLEEVE 1" PAST INSIDE FACE AND 4" PAST OUTSIDE FACE OF WALL.

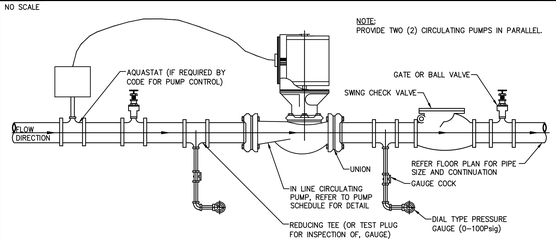
ELEVATOR SUMP PUMP DETAIL

NO SCALE



HOT WATER CIRCULATING PUMP

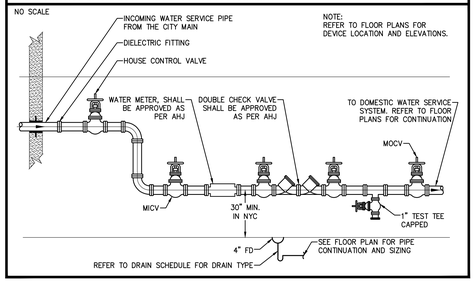
NO SCALE



NOTE:
PROVIDE TWO (2) CIRCULATING PUMPS IN PARALLEL.

NEW SERVICE BACKFLOW PREVENTOR ARRANGEMENT

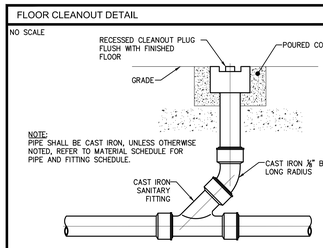
NO SCALE



NOTE:
REFER TO FLOOR PLANS FOR DEVICE LOCATION AND ELEVATIONS.

FLOOR CLEANOUT DETAIL

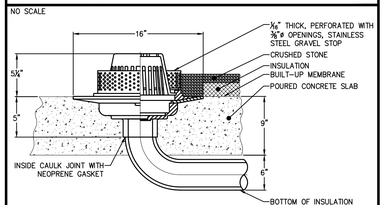
NO SCALE



NOTE:
PIPE SHALL BE CAST IRON, UNLESS OTHERWISE NOTED, REFER TO MATERIAL SCHEDULE FOR PIPE AND FITTING SCHEDULE.

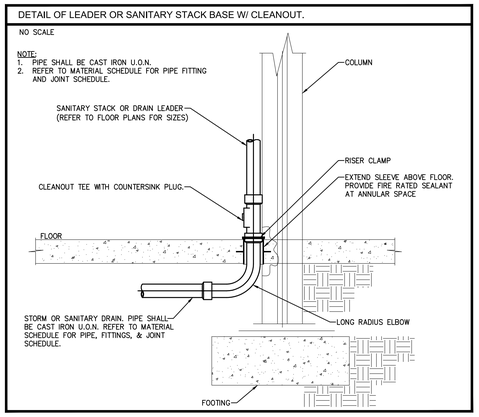
ROOF DRAIN DETAIL

NO SCALE



DETAIL OF LEADER OR SANITARY STACK BASE W/ CLEANOUT.

NO SCALE

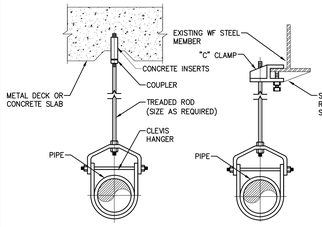


NOTE:
1. PIPE SHALL BE CAST IRON U.O.N.
2. REFER TO MATERIAL SCHEDULE FOR PIPE FITTING AND JOINT SCHEDULE.

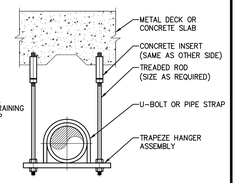
PIPE HANGER DETAILS

NO SCALE

INSTALLATION FOR USE ON 6"Ø PIPE & SMALLER



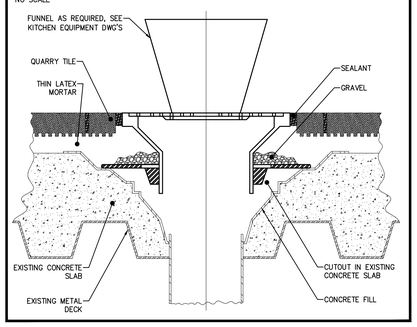
INSTALLATION FOR USE ON PIPE 8"Ø & LARGER



NOTES:
1. HANGER SPACING AND SIZING SHALL BE AS PER SPECIFICATION.
2. SINGLE CONCRETE ANCHOR MAY BE USED ON PIPE 6" & SMALLER.
3. CONCRETE ANCHOR SPACING SHALL NOT EXCEED 10 FEET APART FOR ALL PIPING 4" & LARGER.

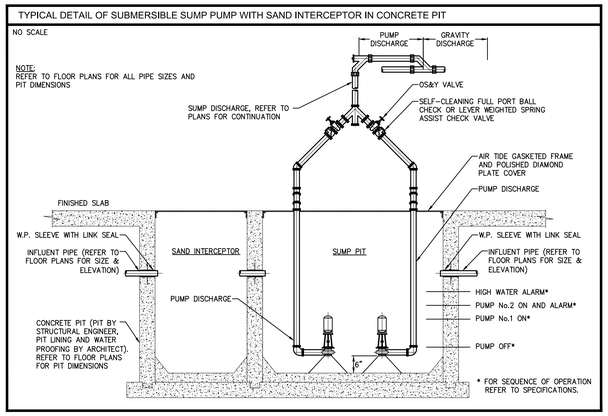
TYPICAL FLOOR DRAIN IN THIN SET TILE FLOOR

NO SCALE



TYPICAL DETAIL OF SUBMERSIBLE SUMP PUMP WITH SAND INTERCEPTOR IN CONCRETE PIT

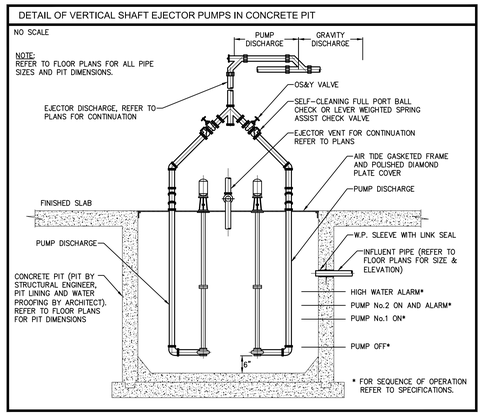
NO SCALE



NOTE:
REFER TO FLOOR PLANS FOR ALL PIPE SIZES AND PIT DIMENSIONS

DETAIL OF VERTICAL SHAFT EJECTOR PUMPS IN CONCRETE PIT

NO SCALE



NOTE:
REFER TO FLOOR PLANS FOR ALL PIPE SIZES AND PIT DIMENSIONS.

NYC DOB FILING NOTE

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.320.5000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 46TH STREET
NEW YORK, NY 10001
tel 212.687.3858

Munroe Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
222 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9678

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY, SUITE 509
NEW YORK, NY 10012
tel 646.666.0845

JHPA JAN HIRO POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRO POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6540

BOLD

LIGHTING
BOLD
227 WEST 29TH STREET
NEW YORK, NY 10018
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
141 D BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6405

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2862

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
600 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7900

VIDARIS

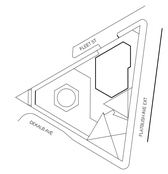
BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BURO HAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2925

TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
320 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4090



SITE DIAGRAM

DATE	ISSUE
07/15/16	65% DESIGN DEVELOPMENT
04/01/16	NO & SOE DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

PLUMBING DETAIL SHEET

SEAL & SIGNATURE

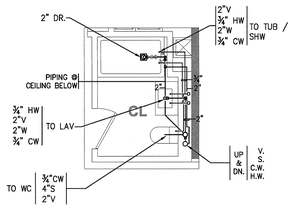
DATE	07.15.2016
PROJECT NO.	15466.0
DRAWN BY	SR
CHECKED BY	CL
DOB NO.	320914338

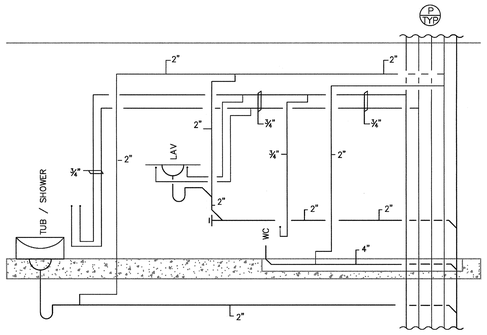
DRAWING NUMBER

P-600.00

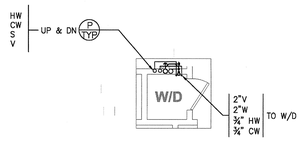
BERT OF BLDGS 320914338 Job Number
E360123105 Scan Code

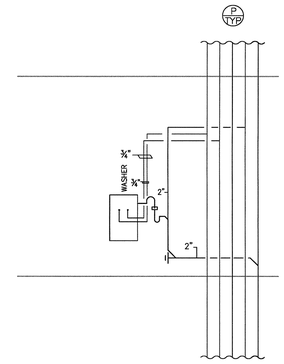
NOTE:
FOR B4 PIPING DETAIL,
PROVIDE SHOWER DRAIN IN
LIEU OF TUB DRAIN.



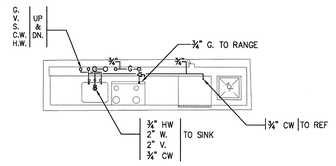


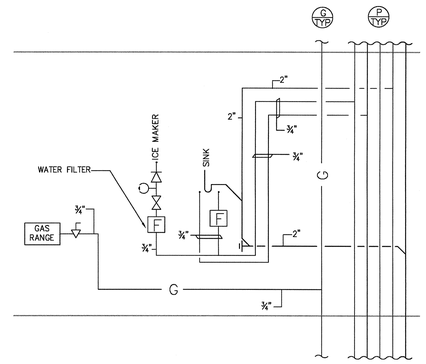
TYPICAL BATHROOM
PLUMBING PART PLAN
N.T.S.





TYPICAL WASHING MACHINE
PLUMBING PART PLAN
N.T.S.





TYPICAL KITCHEN
PLUMBING PART PLAN
N.T.S.

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.825.3640

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.620.9300

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 46TH STREET
NEW YORK, NY 10017
tel 212.597.9888

GEOTECHNICAL ENGINEER
MRCE
333 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9528

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
100 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.825.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7500

INTERIORS
GACHOT
39H BROADWAY SUITE 509
NEW YORK, NY 10013
tel 646.666.0846

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
141 E BROADWAY, SUITE 306
NEW YORK, NY 10018
tel 212.315.6490

BMU ENGINEER
ENTEK ENGINNERING
188 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
590 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

BUILDING ENERGY
VIDARIS
250 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.889.5360

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2005

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
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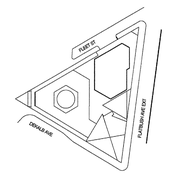

SITE DIAGRAM

07/15/16 DOB FILING SET
04/21/16 FO & BOE DOB FILING SET

DATE ISSUE NO. DATE REVISION

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DRAWING TITLE

PLUMBING
PART PLANS SHEET

SEAL & SIGNATURE

STATE OF NEW YORK
JAMES K. CUTLER
082113
LICENSED PROFESSIONAL ENGINEER

DATE 07.15.2016
PROJECT NO. 15466.0
DRAWN BY SR
CHECKED BY CL
DOB NO. 320914338
DRAWING NUMBER
P-700.00

DEPT OF BUILDINGS X320914338 Job Number
E509718543X Scan Code

EN DRAWING INDEX

SHEET NO.	DRAWING NO.	DRAWING NAME	ISSUE DATES: EN FILING 07/15/2016			
1	EN-001.00	NYC EC COMPLIANCE COVER SHEET	●			
2	EN-002.00	NYC EC COMPLIANCE MANDATORY MEASURES SHEET No. 1	●			
3	EN-003.00	NYC EC COMPLIANCE MANDATORY MEASURES SHEET No. 2	●			
4	EN-004.00	NYC EC COMPLIANCE – LIGHTING FIXTURES SCHEDULE	●			
5	EN-005.00	NYC EC COMPLIANCE – EN-1 COMPLIANCE SHEET	●			
6	EN-006.00	NYC EC COMPLIANCE – EN-1 COMPLIANCE SHEET PART 1	●			
7	EN-007.00	NYC EC COMPLIANCE – EN-1 COMPLIANCE SHEET PART 2	●			
8	EN-008.00	NYC EC COMPLIANCE – EN-1 COMPLIANCE SHEET PART 3	●			
9	EN-009.00	NYC EC COMPLIANCE – EN-1 COMPLIANCE SHEET PART 4	●			
10	EN-099.00	NYC EC COMPLIANCE – SUBCELLAR PLAN	●			
11	EN-100.00	NYC EC COMPLIANCE – CELLAR PLAN	●			
12	EN-101.00	NYC EC COMPLIANCE – LEVEL 1 PLAN	●			
13	EN-102.00	NYC EC COMPLIANCE – LEVEL 2 PLAN	●			
14	EN-103.00	NYC EC COMPLIANCE – LEVEL 3 PLAN	●			
15	EN-104.00	NYC EC COMPLIANCE – LEVEL 4 PLAN	●			
16	EN-105.00	NYC EC COMPLIANCE – LEVEL 5 PLAN	●			
17	EN-106.00	NYC EC COMPLIANCE – LEVEL 6 AND LEVEL 7 PLAN	●			
18	EN-107.00	NYC EC COMPLIANCE – LEVEL 8 AND LEVEL 16 PLAN	●			
19	EN-108.00	NYC EC COMPLIANCE – LEVEL 22, LEVEL 27 AND LEVEL 27 MEZZANINE PLAN	●			
20	EN-109.00	NYC EC COMPLIANCE – LEVEL 28, LEVEL 34, LEVEL 40 AND LEVEL 45 PLAN	●			
21	EN-110.00	NYC EC COMPLIANCE – LEVEL 49, LEVEL 50, LEVEL 51 AND LEVEL 56 PLAN	●			
22	EN-111.00	NYC EC COMPLIANCE – LEVEL 61, LEVEL 65, LEVEL 66 AND LEVEL 70 PLAN	●			
23	EN-112.00	NYC EC COMPLIANCE – LEVEL 72, LEVEL 72 +16', LEVEL 72 +32', ROOF LEVEL – TMD AND ROOF LEVEL – BMU PLAN	●			
24	EN-300.00	FACADE ENERGY COMPLIANCE OVERVIEW	●			
25	EN-302.00	TOWER ELEVATIONS – EN TAKEOFF – NORTH – A	●			
26	EN-303.00	TOWER ELEVATIONS – EN TAKEOFF – NORTH – B	●			
27	EN-304.00	TOWER ELEVATIONS – EN TAKEOFF – NORTHEAST – A	●			
28	EN-305.00	TOWER ELEVATIONS – EN TAKEOFF – NORTHEAST – B	●			
29	EN-306.00	TOWER ELEVATIONS – EN TAKEOFF – SOUTHEAST – A	●			
30	EN-307.00	TOWER ELEVATIONS – EN TAKEOFF – SOUTHEAST – B	●			
31	EN-308.00	TOWER ELEVATIONS – EN TAKEOFF – SOUTH – A	●			
32	EN-309.00	TOWER ELEVATIONS – EN TAKEOFF – SOUTH – B	●			
33	EN-310.00	TOWER ELEVATIONS – EN TAKEOFF – SOUTHWEST – A	●			
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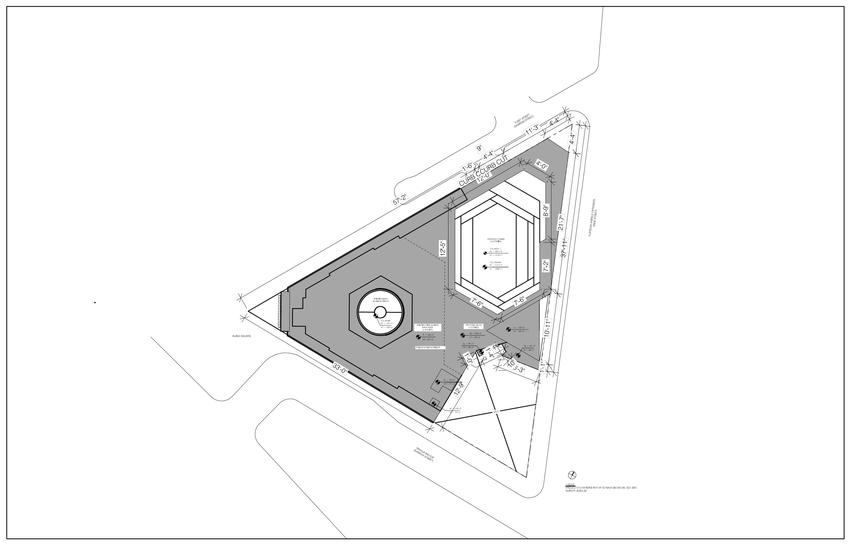
37	EN-314.00	TOWER ELEVATIONS – EN TAKEOFF – WT-07	●			
38	EN-320.00	PODIUM ELEVATIONS – EN TAKEOFF – WT-04	●			
39	EN-321.00	PODIUM ELEVATIONS – EN TAKEOFF – WT-05 + WT-06	●			
40	EN-331.00	SECTION DETAILS WT-01	●			
41	EN-332.00	SECTION DETAILS WT-04A	●			
42	EN-333.00	SECTION DETAILS WT-04B	●			
43	EN-334.00	SECTION DETAILS WT-05	●			
44	EN-335.00	SECTION DETAILS WT-06 SECTION DETAILS WT-07	●			
45	EN-350.00	DETAILS – FOUNDATION WALL, SLAB ON GRADE, WIND FLOOR CEILING, AND ROOF	●			

9 DEKALB AVENUE



Plot Plan
(N.T.S.)

NEW YORK CITY ENERGY CODE COMPLIANCE
PROGRESS INSPECTIONS

		INSPECTION/TEST	PERIODIC (MINIMUM)	REFERENCE STANDARD OR OTHER CRITERIA	ASHRAE SECTION
IIA1		PROTECTION OF EXPOSED FOUNDATION INSULATION: INSULATION SHALL BE VISUALLY INSPECTED TO VERIFY PROPER PROTECTION WHERE APPLIED TO THE EXTERIOR OF BASEMENT OR CELLAR WALLS, CRAWL-SPACEWALLS AND/OR PERIMETER SLAB-ON-GRADE FLOORS.	AS REQUIRED DURING WORK AND PRIOR TO BACKFILL	APPROVED CONSTRUCTION DOCUMENTS	ASHRAE 90.1-5.8.1.7
IIA2		INSULATION PLACEMENT AND R-VALUES: INSTALLED INSULATION FOR EACH COMPONENT OF THE CONDITIONED SPACE ENVELOPE AND AT JUCTIONS BETWEEN COMPONENTS SHALL BE VISUALLY INSPECTED TO ENSURE THE R-VALUES ARE MARKED, THAT SUCH R-VALUES CONFORM TO THE R-VALUES IDENTIFIED IN THE CONSTRUCTION DOCUMENTS AND THAT INSULATION IS PROPERLY INSTALLED. CERTIFICATIONS FOR UNMARKED INSULATION SHALL BE SIMILARLY VISUALLY INSPECTED.	AS REQUIRED TO VERIFY CONTINUOUS ENCLOSURE WHILE WALLS, CEILINGS AND FLOORS ARE OPEN	APPROVED CONSTRUCTION DOCUMENTS	ASHRAE 90.1-5.5, 5.6; 5.8.1
IIA3		FENESTRATION U-FACTOR AND PRODUCT RATINGS: U-VALUES AND SHGC VALUES OF THE INSTALLED FENESTRATION SHALL BE VISUALLY INSPECTED FOR CONFORMANCE WITH THE U-FACTORS AND SHGC VALUES INDENTIFIED IN THE CONSTRUCTION DRAWINGS BE VERIFYING THE MANUFACTURER'S NFRC LABELS OR, WHERE NOT LABELED, USING THE RATINGS IN ECC TABLES. VISIBLE LIGHT TRANSMITTANCE VALUES SHALL ALSO BE VERIFIED.	AS REQUIRED DURING INSTALLATION	APPROVED CONSTRUCTION DOCUMENTS, NFRC 100, NFRC 200, TABLES 102.1.3	ASHRAE 90.1-5.5; 5.6; 5.8.2
IIA4		FENESTRATION AIR LEAKAGE: WINDOWS AND SLIDING OR SWINGING DOOR ASSEMBLIES, EXCEPT SITE-BUILT WINDOWS, SKYLIGHTS AND/OR DOORS, SHALL BE VISUALLY INSPECTED TO VERIFY THAT INSTALLED ASSEMBLIES ARE LISTED AND LABELED BY THE MANUFACTURER TO THE REFERENCED STANDARD.	AS REQUIRED DURING INSTALLATION	NFRC 400, AAMA/WDMA 101/ I.S.2, AAMA/WDMA 101/I.S.2/ NAFS-02; ASTM E283	ASHRAE 90.1-5.4.3.2
IIA5		FENESTRATION AREAS: DIMENSIONS OF WINDOWS, DOORS AND SKYLIGHTS SHALL BE VERFIED BY VISUAL INSPECTION.	PRIOR TO FINAL INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	ASHRAE 90.1-5.5.4, 5.6
IIA6		AIR SEALING AND INSPECTION-VISUAL: OPENINGS AND PENETRATIONS IN THE BUILDING ENVELOPE, INCLUDINGSITE-BUILT FENESTRATION AND DOORS, SHALL BE VISUALLY INSPECTED TO VERIFY THAT THEY ARE PROPERLY SEALED.	AS REQUIRED DURING CONSTRUCTION	APPROVED CONSTRUCTION DOCUMENTS	ASHRAE 90.1-5.4.3.1
IIA7		PROJECTION FACTORS: WHERE THE ENERGY ANALYSIS UTILIZED A PROJECTION FACTOR > 0, THE PROJECTION DIMENSIONS OF OVERHANGS, EAVES OR PERMANENTLY ATTACHED SHADING DEVICES SHALL BE VERIFIED AGAINST APPROVED PLANS BY VISUAL INSPECTION.	PRIOR TO FINAL INSPECTION	APPROVED CONSTRUCTION DOCUMENTS, INCLUDING ENERGY ANALYSIS	ASHRAE 90.1-5.5.4, 5.6 or 11
IIA8		LOADING DECK WEATHER SEALS: WEATHER SEALS AT LOADING DOCKS SHALL BE VISUALLY VERIFIED	AS REQUIRED DURING CONSTRUCTION	APPROVED CONSTRUCTION DOCUMENTS	ASHRAE 90.1-5.4.3.3
IIA9		VESTIBULES: REQUIRED ENTRANCE VESTIBULES SHALL BE VISUALLY INSPECTED FOR PROPER OPERATION	PRIOR TO FINAL CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	ASHRAE 90.1-5.4.3.4
IIB1		FIREPLACES: PROVISION OF COMBUSTION AIR AND TIGHT-FITTING FIREPLACE DOORS SHALL BE VERIFIED BY VISUAL INSPECTION.	PRIOR TO FINAL INSPECTION	APPROVED CONSTRUCTION DOCUMENTS, ANSI Z21.60, MC 904 & ANSI Z21.50	BC 2111; MC CHAPTERS 7, 9; FGC CHAPTER 6
IIB2		SHUT-OFF DAMPERS! DAMPERS SHALL BE VISUALLY INSPECTED TO VERIFY THAT SUCH OPENINGS ARE EQUIPPED WITH MOTORIZED DAMPERS THAT HAVE BEEN TESTED AND LISTED OR LABELED. IF SUCH DAMPERS ARE NOT LISTED OR LABELED, THAT SHALL BE TESTED AND SHALL MEET THE REQUIREMENTS TO THE SATISFACTION OF THE PROGRESS INSPECTOR.	AS REQUIRED DURING INSTALLATION	APPROVED CONSTRUCTION DOCUMENTS, AMCA 500	ASHRAE 90.1 – 6.4.3.4
IIB3		HVAC AND SERVICE WATER HEATING EQUIPMENT: EQUIPMENT EFFICIENCIES AND OTHER PERFORMANCE FACTORS OF ALL MAJOR EQUIPMENT UNITS, AS DETERMINED BY THE APPLICANT OF RECORD, AND NO LESS THAN 15% OF MINOR EQUIPMENT UNITS, SHALL BE VERIFIED BY VISUAL INSPECTION AND, WHERE NECESSARY, REVIEW MANUFACTURER'S DATA.	PRIOR TO FINAL INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	ASHRAE 90.1 – 6.4.1, 6.4.2, 6.8; 7.4, 7.8
IIB4		HVAC AND SERVICE WATER HEATING SYSTEM CONTROLS: NO LESS THAN 20% OF EACH TYPE OF REQUIRED CONTROLS AND ECONOMIZERS SHALL BE VERIFIED BY VISUAL INSPECTION AND TESTED FOR FUNCTIONALITY AND PROPER OPERATION. SUCH CONTROLS SHALL INCLUDE, BUT ARE NOT LIMITED TO THERMOSTATIC; SET POINT OVERLAP RESTRICTION; OFF-HOUR; SHUTOFF DAMPER; ECONOMIZERS; VARIABLE AIR VOLUME FAN; HYDRONIC SYSTEMS; HEAT REJECTION EQUIPMENT FAN SPEED; COMPLEX MECHANICAL SYSTEMS SERVING MULTIPLE ZONES; VENTILATION; ENERGY RECOVERY SYSTEMS; SERVICE WATER HEATING; HOT WATER SYSTEM; EXHAUST HOODS; RADIANT HEATING SYSTEMS; AND HOT GAS BYPASS SYSTEMS. CONTROLS WITH SEASONALLY DEPENDANT FUNCTIONALITY: CONTROLS WHOSE COMPLETE OPERATION CANNOT BE DEMOSTRATED DUE TO PREVAILING WEATHER CONDITIONS TYPICAL OF THE SEASON DURING WHICH PROGRESS INSPECTIONS WILL BE PERFORMED SHALL BE PERMITTED TO BE SIGNED OFF FOR THE PURPOSE OF A TEMPORARY CERTIFICATE OF OCCUPANCY WITH ONLY A VISUAL INSPECTION, PROVIDED, HOWEVER THAT THE PROGRESS INSPECTOR SHALL PERFORM A SUPPLEMENTAL INSPECTION WHERE THE CONTROLS ARE VISUALLY INSPECTED AND TESTED FOR FUNCTIONALITY AND PROPER OPERATION DURING THE NEXT IMMEDIATE SEASON THEREAFTER. THE OWNER SHALL PROVIDE FULL ACCESS TO THE PROGRESS INSPECTOR WITHIN TWO WEEKS OF THE PROGRESS INSPECTOR'S REQUEST FOR SUCH ACCESS TO PERFORM THE PROGRESS INSPECTION. FOR SUCH SUPPLEMENTAL INSPECTIONS, THE DEPARTMENT SHALL BE NOTIFIED BY THE PROGRESS INSPECTION APPROVED AGENCY OF ANY UNRESOLVED WORK WITHIN 180 DAYS OF THE SUCH SUPPLEMENTAL INSPECTION.	AFTER INSTALLATION AND BEFORE FINAL INSPECTION, EXCEPT THAT FOR CONTROLS WITH SEASONALLY DEPENDENT FUNCTIONALITY, SUCH TESTING SHALL BE PREFORMED BEFORE SIGN-OFF OR ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY	APPROVED CONSTRUCTION DOCUMENTS, INCLUDING CONTROL SYSTEM NARRATIVES ASHRAE GUIDELINE 1: THE HVAC COMMISSIONING PROCESS WHERE APPLICABLE	ASHRAE 90.1-6.4, 6.5, 6.7.2.4, 7.4.4, 7.4.5
IIB5		HVAC INSULATION AND SEALING: INSTALLED DUCT AND PIPING INSULATION SHALL BE VISUALLY INSPECTED TO VERIFY PROPER INSULATION PLACEMENT AND VALUES. JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE VISUALLY INSPECTED FOR PROPER SEALING.	AFTER INSTALLATION AND PRIOR TO CLOSING SHAFTS, CEILINGS AND WALLS	APPROVED CONSTRUCTION DOCUMENTS, SMACNA DUCT CONSTRACTION STANDARDS, METAL AND FLEXIBLE; UL181A OR UL181B	ASHRAE 90.1-6.4.4.1, 6.8.2, 6.8.3; 7.4.3
IIB6		DUCT LEAKAGE TESTING: AIR LEAKAGE TESTING FOR DUCT SYSTEMS DESIGNED TO OPERATE AT STATIC PRESSURE IN EXCESS OF 3 INCHES W.G. (746 PA): REPRESENTATIVE SECTIONS TOTALING AT LEAST 25% OF THE DUCT AREA, PER ECC 803.3.6, SHALL BE TESTED TO VERIFY THAT ACTUAL AIR LEAKAGE IS BELOW ALLOWABLE AMOUNTS.	AFTER INSTALLATION AND SEALING AND PRIOR TO CLOSING SHAFTS, CEILINGS AND WALLS	APPROVED CONSTRUCTION DOCUMENTS, SMACNA AIR DUCT LEAKAGE TEST MANUAL	ASHRAE 90.1-6.4.4.2
IIC1		ELECTRICAL ENERGY CONSUMPTION: THE PRESENCE AND OPERATION OF INDIVIDUAL METERS OR OTHER MEANS OF MONITORING INDIVIDUAL APARTMENTS SHALL BE VERIFIED BY VISUAL INSPECTION FOR ALL APARTMENTS.	PRIOR TO FINAL INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	
IIC2		LIGHTING IN DWELLING UNITS: LAMPS IN PERMANENTLY INSTALLED LIGHTING FISTURES SHALL BE VISUALLY INSPECTED TO VERIFY COMPLIANCE WITH HIGH-EFFICANCY REQIREMENTS	PRIOR TO FINAL INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	
IIC3		INTERIOR LIGHTING POWER: INSTALLED LIGHTING SHALL BE VERIFIED FOR COMPLIANCE WITH THE LIGHTING POWER ALLOWANCE BY VISUAL INSPECTION OF FIXTURES, LAMPS, BALLASTS AND RELEVANT TRANSFORMERS.	PRIOR TO FINAL INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	ASHRAE 90.1 – 9.1; 9.2, 9.5, 9.6; 1RCNY 101-07(C)(3)(V)(C)4
IIC4		EXTERIOR LIGHTING POWER: INSTALLED LIGHTING SHALL BE VERIFIED FOR COMPLIANCE WITH SOURCE EFFICACY AND/OR THE LIGHTING POWER ALLOWANCE BY VISUAL INSPECTION OF FIXTURES, LAMPS, BALLASTS AND RELEVANT TRANSFORMERS.	PRIOR TO FINAL INSPECTION	APPROVED CONSTRACTION DOCUMENTS	ASHRAE 90.1 – 9.4.3; 1RCNY101-07(C)(3)(V)(C)4
IIC5		LIGHTING CONTROLS: EACH TYPE OF REQUIRED LIGHTING CONTROLS, INCLUDING MANUAL INTERIOR LIGHTING CONTROLS, LIGHT-REDUCTION CONTROLS, AUTOMATIC LIGHTING SHUT-OFF, GUESTROOM CONTROLS, EXTERIOR BUILDING LIGHTING CONTROLS AND EXTERIOR GROUNDS LIGHTING CONTROLS, SHALL BE VERIFIED BY VISUAL INSPECTION AND TESTED FOR FUNCTIONALITY AND PROPER OPERATION.	PRIOR TO FINAL INSPECTION	APPROVED CONSTRACTION DOCUMENTS, INCLUDING CONTROL SYSTEM NARRATIVES	ASHRAE 90.1-9.4.1,
IIC6		EXIT SIGNS: INSTALLED EXIT SIGNS SHALL BE VISUALLY INSPECTED TO VERIFY THAT THE LABEL INDICATES THAT THEY DO NOT EXCEED MAXIMUM PERMITTED WATTAGE.	PRIOR TO FINAL INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	ASHRAE 90.1 – 9.4.2
IIC7		ELECTRIC MOTORS: WHERE REQUIRED BY THE CONSTRUCTION DOCUMENTS FOR ENERGY CODE COMPLIANCE, MOTOR LISTING OR LABELS SHALL BE VISUALLY INSPECTED TO VERIFY THAT THEY COMPLY WITH THE RESPECTIVE ENERGY REQUIREMENTS IN THE CONSTRUCTION DOCUMENTS.	PRIOR TO FINAL INSPECTION	APPROVED CONSTRACTION DOCUMENTS	ASHRAE 90.1 – 10.4
IID1		MAINTENANCE INFORMATION: MAINTENANCE MANUALS FOR MECHANICAL, SERVICE HOT WATER AND ELECTRICAL EQUIPMENT AND SYSTEMS REQUIRING PREVENTIVE MAITENANCE SHALL BE REVIEWED FOR APPLICABILITY TO INSTALLED EQUIPMENT AND SYSTEMS BEFORE SUCH MANUALS ARE PROVIDED TO THE OWNER. LABELS REQUIRED FOR SUCH EQUIPMENT OR SYSTEMPS SHALL BE INSPECTED FOR ACCURACY AND COMPLETENESS	PRIOR TO FINAL INSPECTION	APPROVED CONSTRACTION DOCUMENTS	ASHRAE 90.1 – 4.2.2.3, 6.7.2.2, 8.7.2, 9.7.2.2

NOTES:
1. IN ACCORDANCE WITH SECTIONS BC 109.9 AND ECC 104.2.3, WHERE AN INSPECTION OR TEST FAILS, THE CONSTRUCTION SHALL BE CORRECTED, AND SHALL BE MADE AVAILABLE FOR REINSPECTION AND/OR RETESTING BY THE PROGRESS INSPECTOR UNTIL IT COMPLIES.
2. IN ACCORDANCE WITH ARTICLE 116 OF TITLE 28 AND SECTION BC 109, CONSTRUCTION SHALL BE SCHEDULED TO ALLOW REQUIRED PROGRESS INSPECTIONS TO TAKE PLACE, AND THAT ROOFS, CEILINGS, EXTERIOR WALLS, INTERIOR WALLS, FLOORS, FOUNDATIONS, BASEMENTS AND ANY OTHER CONSTRUCTION SHALL NOT BE COVERED OR ENCLOSED UNTIL REQUIRED PROGRESS INSPECTIONS ARE COMPLETED OR THE PROGRESS INSPECTOR INDICATES THAT SUCH COVERING OR ENCLOSURE MAY PROCEED, AT EACH STAGE OF CONSTRUCTION, AS APPLICABLE.
3. IN ACCORDANCE WITH ASHRAE 90.1, THIS PROJECT SHALL BE COMMISSIONED AS PER SPECIFICATION SECTION 23 08 00 COMMISSIONING OF HVAC.

BUILDING DEPARTMENT NOTES

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

PROFESSIONAL'S STATEMENT

TO THE BEST OF OUR KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH 2014 NYC EC VIA APPLICATION OF ASHRAE 90.1-2010 AS MODIFIED BY APPENDIX A.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JACOS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
50 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.5000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.697.9668

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
225 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9678

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE, SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY, SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

BOLD

Longman Lindsey

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6000

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

SIMPSON GUMPERTZ & HEGER

BMU ENGINEER
ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUROHAPPOLD ENGINEERING

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 13TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

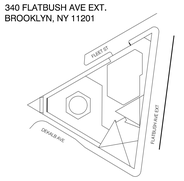
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2925

Lothrop TRACE FUEL DESIGN

POOL
TRACE POOL DESIGN
150 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4090

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

7.15.2016 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

NYC EC COMPLIANCE
COVER SHEET

SEAL & SIGNATURE

DATE	07.15.2016
PROJECT NO.	15466
DRAWN BY	BB
CHECKED BY	JD
DOB NO.	320914338

DRAWING NUMBER

EN.001.00

V.2.8.JUL.2016

DEPT OF BUILDINGS 320914338 Job Number

B3909742300 Scan Code

NEW YORK CITY ENERGY CODE COMPLIANCE
SECTION 5 - BUILDING ENVELOPE
MANDATORY PROVISIONS

STANDARD: ASHRAE 90.1–2010
CLIMATE ZONE: 4A

ITEM DESCRIPTION	PROPOSED DESIGN VALUE	CODE PRESCRIPTIVE VALUE AND CITATION
5.4.1: INSULATION	INSULATION SPECIFIED MEETS THE MINIMUM REQUIREMENTS	INSULATION REQUIRED FOR ROOFS, WALLS, ETC., MEETS THE MINIMUM REQUIREMENTS OF TABLE 5.8.1.1 THROUGH 5.8.1.9 OF ASHRAE 90.1.
5.4.2: FENESTRATION AND DOORS	FENESTRATION AND DOOR PERFORMANCE OF THE EQUIPMENT SPECIFIED HAS COMPLIED WITH SECTION 5.8.2	PROCEDURES FOR DETERMINING FENESTRATION AND DOOR PERFORMANCE ARE DESCRIBED IN SECTION 5.8.2
5.4.3: AIR LEAKAGE		
5.4.3.1: CONTINUOUS AIR BARRIERS	THE BUILDING ENVELOPE OPENINGS HAVE BEEN SPECIFIED TO MINIMIZE AIR LEAKAGE.	ALL JOINTS, JUNCTIONS, OPENINGS, PENETRATIONS, ETC., OF THE BUILDING ENVELOP SHALL BE SEALED CAULKED, GASKETED, OR WEATHER-STRIPPED TO MINIMIZE AIR LEAKAGE.
5.4.3.2: FENESTRATION AND DOORS	THE AIR LEAKAGE DOES NOT EXCEED THE MAXIMUM OF 1.0 CFM/FT² FOR GLAZED SWINGING ENTRANCE DOORS AND 0.4 CFM/FT² FOR ALL OTHER PRODUCTS WHEN TESTED IN ACCORDANCE WITH NFRC 400.	AIR LEAKAGE FOR FENESTRATION AND DOORS SHALL BE DETERMINED IN ACCORDANCE WITH NFRC 400. AIR LEAKAGE SHALL NOT EXCEED 1.0 CFM/FT² FOR GLAZED SWINGING ENTRANCE DOORS AND 0.4 CFM/FT² FOR ALL OTHER PRODUCTS.
5.4.3.3: LOADING DOCK WEATHERSEALS	LOADING DOCK DOORS HAVE BEEN SPECIFIED WITH WEATHER-STRIPPING.	CARGO DOORS AND LOADING DOCKS DOORS SHALL BE EQUIPPED WITH WEATHERSEALS TO RESTRICT INFILTRATION WHEN VEHICLES ARE PARKED IN THE DOORWAY.
5.4.3.4: VESTIBULES	VESTIBULES MEETING THESE REQUIREMENTS HAVE BEEN DESIGNED.	A DOOR THAT SEPARATES CONDITIONED SPACE FROM THE EXTERIOR SHALL BE PROTECTED WITH AN ENCLOSED VESTIBULE, WITH ALL DOORS OPENING INTO AND OUT OF THE VESTIBULE EQUIPPED WITH SELF-CLOSING DEVICES. THE INTERIOR AND EXTERIOR DOOR SHALL HAVE A MINIMUM DISTANCE OF 7 FEET BETWEEN THEM WHEN BOTH DOORS ARE CLOSED.

NEW YORK CITY ENERGY CODE COMPLIANCE
SECTION 6 - HEATING VENTILATING AND AIR CONDITIONING
MANDATORY PROVISIONS

STANDARD: ASHRAE 90.1–2010
CLIMATE ZONE: 4A

ITEM DESCRIPTION	PROPOSED DESIGN VALUE	CODE PRESCRIPTIVE VALUE AND CITATION
6.4.1: EQUIPMENT EFFICIENCIES, VERIFICATION & LABELING REQUIREMENTS		
6.4.1.1: MINIMUM EQUIPMENT EFFICIENCIES – LIST EQUIPMENT – STANDARD RATING CONDITIONS	EQUIPMENT HAS BEEN SELECTED TO MEET THE MINIMUM PERFORMANCE. SEE TABLE 1.	EQUIPMENT SHOWN IN TABLES 6.8.1A TO 6.8.1K SHALL HAVE A MINIMUM PERFORMANCE AT THE SPECIFIED RATING CONDITIONS IN ACCORDANCE WITH THE SPECIFIED TEST PROCEDURE
6.4.1.2: MINIMUM EQUIPMENT EFFICIENCIES – LIST EQUIPMENT – NONSTANDARD RATING CONDITIONS	EQUIPMENT HAS BEEN SELECTED TO MEET THE MINIMUM PERFORMANCE. SEE TABLE 2.	PERFORMANCE SHOWN IN TABLES 6.8.1H TO 6.8.1K SHALL BE MET AT THE GIVEN EQUIPMENT SIZE.
6.4.1.3: EQUIPMENT NOT LISTED		EQUIPMENT NOT LISTED IN TABLES 6.8.1A TO 6.8.1K MAY BE USED.
6.4.1.4: VERIFICATION OF EQUIPMENT EFFICIENCIES	EQUIPMENT EFFICIENCY HAS BEEN VERIFIED	EQUIPMENT EFFICIENCY INFORMATION SUPPLIED BY MANUFACTURES SHALL BE VERIFIED.
6.4.1.5: LABELING	EQUIPMENT IS COVERED BY THE NAECA OF 1987	MECHANICAL EQUIPMENT THAT IS NOT COVERED BY THE US NATIONAL APPLIANCE ENERGY CONSERVATION ACT (NAECA) OF 1987 SHALL CARRY A PERMANENT LABEL INSTALLED BY THE MANUFACTURER STATING THAT THE EQUIPMENT COMPLIES WITH THE REQUIREMENTS OF ASHRAE 90.1.
6.4.2: CALCULATIONS	SYSTEM AND EQUIPMENT HAS BEEN SIZED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND ACCEPTED ENGINEERS STANDARDS FOR HEATING AND COOLING LOADS AND PUMP HEADS	SYSTEMS AND EQUIPMENT SIZED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND ACCEPTED ENGINEERS STANDARDS.
6.4.3: CONTROLS		
6.4.3.1: ZONE THERMOSTATIC CONTROLS		
6.4.3.1.1: GENERAL	EACH HEATING AND COOLING ZONE IS THERMOSTATICALLY CONTROLLED.	THE SUPPLY OF HEATING AND COOLING ENERGY TO EACH ZONE SHALL BE INDIVIDUALLY CONTROLLED BY THERMOSTATIC CONTROLS RESPONDING TO TEMPERATURE WITHIN THE ZONE.
6.4.3.1.2: DEAD BAND	SEE TABLE 3	ZONE THERMOSTATIC CONTROLS SHALL BE CAPABLE OF PROVIDING A TEMPERATURE RANGE OR DEAD BAND OF AT LEAST 5°F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS SHUT–OFF OR REDUCED TO A MINIMUM.
6.4.3.2: SET POINT OVERLAP RESTRICTIONS	THE SYSTEMS PROVIDED AS SPECIFIED HAVING CONTROLS WHICH PREVENT THE HEAT SET POINT FROM EXCEEDING THE COOL SET POINT – THE DEADBAND.	MEANS SHALL BE PROVIDED TO PREVENT THE HEATING SET POINT FROM EXCEEDING THE COOLING SET POINT MINUS ANY APPLICABLE PROPORTIONAL BAND.
6.4.3.3: OFF–HOUR CONTROLS		
6.4.3.3.1: AUTOMATIC SHUTDOWN	SEE TABLE 3	HVAC SYSTEM SHALL BE EQUIPPED WITH AN AUTOMATIC COMPLYING WITH SECTION 6.4.3.2
6.4.3.3.2: SETBACK CONTROLS	SEE TABLE 3	HVAC SYSTEM SHALL BE EQUIPPED WITH A TEMPERATURE RESET FUNCTION COMPLYING WITH SECTION 6.4.3.2
6.4.3.3.3: OPTIMAL START CONTROLS	SEE TABLE 3	INDIVIDUAL AIR DISTRIBUTION SYSTEMS WITH A TOTAL DESIGN SUPPLY AIR CAPACITY OF 10,000 CFM SHALL HAVE OPTIMAL START CONTROLS.
6.4.3.3.4: ZONE ISOLATION	SEE TABLE 3	HVAC SYSTEM SHALL BE DIVIDED IN INDIVIDUAL ZONES COMPLYING WITH SECTION 6.4.3.2
6.4.3.4: VENTILATION SYSTEM CONTROLS		
6.4.3.4.1: STAIR AND SHAFT VENT	THE STAIR AND SHAFT VENTS AS SPECIFIED COMPLY WITH THESE REQUIREMENTS.	STAIR AND ELEVATOR SHAFT VENTS SHALL BE EQUIPPED WITH MOTORIZED DAMPERS THAT ARE CAPABLE OF BEING AUTOMATICALLY CLOSED DURING NORMAL OPERATION AND ARE INTERLOCKED TO BE OPEN AS REQUIRED BY FIRE AND SMOKE DETECTION SYSTEMS.
6.4.3.4.2: SHUTOFF DAMPER CONTROL	SEE TABLE 3	OUTDOOR AIR SUPPLY AND EXHAUST SYSTEMS SHALL BE EQUIPPED WITH MOTORIZED DAMPERS THAT WILL AUTOMATICALLY SHUT WHEN THE SYSTEMS OR SPACES SERVED ARE NOT IN USE.
6.4.3.4.3: DAMPER LEAKAGE	THE DAMPERS HAVE BEEN SPECIFIED TO MEET THE MAXIMUM LEAKAGE REQUIREMENTS IN TABLE 6.4.3.4.3	THE MAXIMUM LEAKAGE OF REQUIRED DAMPERS SHALL HAVE A MAXIMUM LEAKAGE RATE WHEN TESTED IN ACCORDANCE WITH AMCA STANDARD 500 AS INDICATED IN TABLE 6.4.3.4.3
6.4.3.4.4: VENTILATION FAN CONTROLS	THE VENTILATION FANS AS SPECIFIED COMPLY WITH THESE REQUIREMENTS.	VENTILATION FANS WITH MOTORS GREATER THAN 3/4 HP SHALL HAVE CONTROLS WHICH WILL AUTOMATICALLY SHUT OFF THE FANS WHEN NOT REQUIRED.
6.4.3.4.5: ENCLOSED PARKING GARAGE VENTILATION	THE VENTILATION FANS AS SPECIFIED COMPLY WITH THESE REQUIREMENTS.	ENCLOSED PARKING GARAGE VENTILATION SYSTEMS SHALL AUTOMACICALLY DETECT CONTAMINANT LEVELS AND STAGE FANS OR MODULATE FAN AIRFLOR RATES TO 50S OR LESS OF DESIGN CAPACITY
6.4.3.5: HEAT PUMP AUXILIARY HEAT CONTROL	SEE TABLE 3	HEAT PUMPS WITH INTERNAL ELECTRIC RESISTANCE HEATERS SHALL HAVE CONTROLS THAT PREVENT SUPPLEMENTAL HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE DURING BOTH STEADY–STATE OPERATION AND SETBACK RECOVERY.
6.4.3.6: HUMIDIFIER PREHEAT	SEE TABLE 3	HUMIDIFIERS WITH PREHEATING JACKETS MOUNTED IN THE AIR STREAM SHALL BE PROVIDED WITH AN AUTOMATIC VALVE TO SHUT OFF THE PREHEAT WHEN HUMIDIFICATION IS NOT REQUIRED.
6.4.3.7: HUMIDIFICATION & DEHUMIDIFICATION	SEE TABLE 3	SYSTEMS WITH BOTH MEANS FOR HUMIDIFICATION AND DEHUMIDIFICATION SHALL BE PROVIDED WITH THE CAPABILITY OF PREVENTING SIMULTANEOUS OPERATION OF HUMIDIFICATION AND DEHUMIDIFICATION EQUIPMENT.
6.4.3.8: FREEZE PROTECTION & SNOW/ICE MELTING SYSTEMS	THE FREEZE PROTECTION SYSTEMS AS SPECIFIED COMPLY WITH THESE REQUIREMENTS, AS SPECIFIED.	FREEZE PROTECTION SYSTEMS SHALL INCLUDE AUTOMATIC CONTROLS CAPABLE OF SHUTTING OFF SYSTEM WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE 40°F. SNOW/ICE MELTING SYSTEMS SHALL INCLUDE AUTOMATIC CONTROLS CAPABLE OF SHUTTING OFF SYSTEM WHEN THE PAVEMENT TEMPERATURE IS ABOVE 50°F.
6.4.3.9: VENTILATION CONTROLS FOR HIGH OCCUP AREAS	VENTILATION SYSTEMS FOR HIGH OCCUPANCY AREAS COMPLY WITH THESE REQUIREMENTS, AS SPECIFIED.	SYSTEMS WITH DESIGN OUTDOOR AIR CAPACITIES GREATER THAN 3000 CFM SERVING AREAS HAVING AN AVERAGE DESIGN OCCUPANCY EXCEEDING 100 PEOPLE PER 1000 FT² SHALL INCLUDE MEANS TO AUTOMATICALLY REDUCE OUTDOOR AIR INTAKE BELOW DESIGN RATES WHEN SPACES ARE PARTIALLY OCCUPIED.
6.4.3.10: SINGLE ZONE VARIANCE AIR CONTROL	VFD'S HAVE BEEN SPECIFIED TO MEET REQUIREMENTS	AIR HANDLING AND FAN–COIL UNITS WITH CHILLED–WATER COOLING COILS AND SUPPLY FANS WITH MOTORS GREATER THAN OR EQUAL TO 5 HP SHALL HAVE THEIR SUPPLY FANS CONTROLLED BY TWO–SPEED MOTORS OR VARIABLE–SPEED DRIVES. ALL AIR–CONDITIONING EQUIPMENT AND AIR–HANDLING UNITS WITH DIRECT EXPANSION COOLING AND A COOLING CAPACITY AT AHRI CONDITIONS GREATER THAN OR EQUAL TO 110,000 BTU/H THAT SERVE SINGLE ZONES SHALL HAIR THEIR SUPPLY FANS CONTROLLED BY TWO–SPEED MOTORS OR VARIABLE–SPEED DRIVES
6.4.4: HVAC SYSTEM CONSTRUCTION AND INSULATION		
6.4.4.1: INSULATION	INSULATION HAS BE SPECIFIED TO BE INSTALLED AS PER INDUSTRY–STANDARD. SUPPLY AND RETURN DUCTS AND PLENUMS HAVE BEEN SPECIFIED TO BE INSULATED IN ACCORDANCE WITH TABLE 6.8.2A AND B. PIPING HAS BEEN SPECIFIED TO BE INSULATED ACCORDING TO TABLE 6.8.3A AND 6.8.3B	INSULATION SHALL BE INSTALLED AS PER INDUSTRY–ACCEPTED STANDARDS. ALL SUPPLY AND RETURN DUCTS AND PLENUMS SHALL BE INSULATED IN ACCORDANCE WITH TABLES 6.8.2A AND 6.8.2B. PIPING SHALL BE THERMALLY INSULATED IN ACCORDANCE WITH TABLE 6.8.3A AND 6.8.3B.
6.4.4.2: DUCTS AND PLENUM LEAKAGE	DUCTWORK AND PLENUMS HAVE BEEN SPECIFIED TO BE SEALED IN ACCORDANCE WITH TABLE6.4.4.2A. DUCT DESIGNED TO OPERATE AT STATIC PRESSURES GREATER THAN 3 IN OF WC HAS BEEN SPECIFIED TO BE LEAK TESTED ACCORDING TO INDUSTRY STANDARDS	DUCTWORK AND PLENUMS SHALL BE SEALED IN ACCORDANCE WITH TABLE 6.4.4.2A. DUCTWORK THAT IS DESIGNED TO OPERATE AT STATIC PRESSURES IN EXCESS OF 3 IN OF WC SHALL BE LEAK TESTED ACCORDING TO INDUSTRY–ACCEPTED PROCEDURES.

NEW YORK CITY ENERGY CODE COMPLIANCE
SECTION 7 - SERVICE WATER HEATING
MANDATORY PROVISIONS

STANDARD: ASHRAE 90.1–2010
CLIMATE ZONE: 4A

ITEM DESCRIPTION	PROPOSED DESIGN VALUE	CODE PRESCRIPTIVE VALUE AND CITATION
7.4.1: LOAD CALCULATIONS	SYSTEM AND EQUIPMENT HAS BEEN SIZED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND ACCEPTED ENGINEERS STANDARDS.	SYSTEMS AND EQUIPMENT SIZED IN ACCORDANCE WITH ANSI/ASHRAE/ACCA STANDARD 183–2007
7.4.2: EQUIPMENT EFFICIENCY	SPECIFIED DOMESTIC HOT WATER HEATERS HAVE A EFFICIENCY TO MEET THE MINIMUM PERFORMANCE	EQUIPMENT SHOWN IN TABLES 7.8 SHALL HAVE A MINIMUM PERFORMANCE AT THE SPECIFIED RATING CONDITIONS IN ACCORDANCE WITH THE SPECIFIED TEST PROCEDURE
7.4.3: SERVICE HOT WATER PIPING INSULATION	DOMESTIC HOT WATER PIPING MINIMUM INSULATION MEETS MINIMUM REQUIREMENTS	INSULATION SHALL BE INSTALLED AS PER INDUSTRY–ACCEPTED STANDARDS. PIPING SHALL BE THERMALLY INSULATED IN ACCORDANCE WITH TABLE 6.8.3 OF ASHRAE 90.1.
7.4.4: SERVICE WATER HEATING CONTROLS		
7.4.4.1: TEMPERATURE CONTROLS	SPECIFIED DOMESTIC HOT WATER HEATERS HAVE CONTROL SETTINGS TO ALLOW FOR ADJUSTMENT	TEMPERATURE CONTROLS SHALL BE PROVIDED THAT ALLOW FOR STORAGE TEMPERATURE ADJUSTMENT FROM 120°F OR LOWER TO A MAXIMUM TEMPERATURE COMPATIBLE FOR THE INTENDED USE.
7.4.4.2: TEMPERATURE MAINTENANCE CONTROLS	SPECIFIED DOMESTIC WATER HEATER SYSTEM HAS AN AUTOMATIC CONTROL SYSTEM THAT TURNS OFF THE USAGE TEMPERATURE WHEN NOT REQUIRED.	SYSTEMS DESIGNED TO MAINTAIN USAGE TEMPERATURES IN HOT WATER PIPES SHALL BE EQUIPPED WITH AUTOMATIC CONTROLS THAT CAN SWITCH OFF THE USAGE TEMPERATURE WHEN HOT WATER IS NOT REQUIRED.
7.4.4.3: OUTLET TEMPERATURE CONTROLS	THE FIXTURE DELIVERY TEMPERATURE IS LIMITED TO NOT GREATER THAN 110°F VIA A MIXING VALVE.	THE MAXIMUM TEMPERATURE OF WATER DELIVERY FOR A FIXTURE SHALL BE 110°F.
7.4.4.4: CIRCULATING PUMP CONTROLS	CONTROLS TO LIMIT THE CIRCULATING PUMP RUN TIME TO A MAXIMUM OF FIVE MINUTES HAS BEEN PROVIDED.	WHEN USED TO MAINTAIN STORAGE TANK TEMPERATURE, CONTROLS TO LIMIT CIRCULATING PUMP OPERATION FROM START OF HEATING CYCLE TO 5 MIN AFTER END OF HEATING CYCLE SHALL BE PROVIDED.
7.4.5: POOLS	a. HEATERS HAVE BEEN EQUIPPED WITH READILY ACCESSIBLE ON–OFF SWITCHES TO ALLOW HEATER DEACTIVATION WITHOUT ADJUSTING THERMOSTAT. b. TIME SWITCHES HAVE BEEN INSTALLED ON ALL HEATERS AND PUMPS. c. HEATED POOLS AND INGROUND SPAS HAVE BEEN PROVIDED WITH A VAPOR–RETARDANT COVER. POOLS HEATED TO MORE THAN 90F SHALL HAVE POOL COVERS WITH MIN. INSULATION OF R–12	HEATERS SHALL BE EQUIPPED WITH A READILY ACCESSIBLE ON–OFF SWITCH, MOUNTED OUTSIDE OF THE HEATER, TO ALLOW SHUT OFF WITHOUT ADJUSTING THE THERMOSTAT. TIME SWITCHES SHALL BE INSTALLED ON ALL HEATERS AND PUMPS. HEATED POOLS AND INGROUND PERMANENTLY INSTALLED SPAS SHALL BE PROVIDED WITH A VAPOR–RETARDANT COVER.
7.4.6: HEAT TRAPS	THE REQUIRED HEAT TRAPS HAVE BEEN PROVIDED.	VERTICAL PIPING SERVING STORAGE TYPE HEATERS AND STORAGE HEATERS WITHOUT AN INTEGRAL HEAT TRAP AND SERVING A NONRECIRCULATING SYSTEM SHALL HAVE INLET AND OUTLET HEAT TRAPS.

NEW YORK CITY ENERGY CODE COMPLIANCE
SECTION 10 - OTHER EQUIPMENT
MANDATORY PROVISIONS

STANDARD: ASHRAE 90.1–2010
CLIMATE ZONE: 4A

ITEM DESCRIPTION	PROPOSED DESIGN VALUE	CODE PRESCRIPTIVE VALUE AND CITATION
10.4: ELECTRIC MOTORS	ALL MOTORS HAVE MINIMUM EFFICIENCY GREATER OR EQUAL TO THE EFFICIENCIES REQUIRED BY THE ENERGY POLICY ACT OF 1992.	ELECTRIC MOTORS SHALL COMPLY WITH THE REQUIREMENTS OF THE ENERGY POLICY ACT OF 1992 WHERE APPLICABLE.

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

sh p

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
30 PINE STREET, 17TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
205 WEST 60TH STREET
NEW YORK, NY 10017
tel 212.697.9668

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
225 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9678

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE, SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY, SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6000

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
100 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
100 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

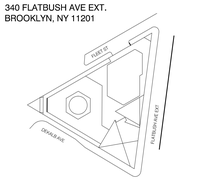
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.0925

Lehrer TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4760

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

7.15.2016 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

NYC EC COMPLIANCE
MANDATORY MEASURES SHEET
NO. 1

SEAL & SIGNATURE

DATE	07.15.2016
PROJECT NO.	15466
DRAWN BY	BB
CHECKED BY	JD
DOB NO.	320914338

DRAWING NUMBER

EN.002.00

14 JULY 2016

DEPT OF BUILDINGS 320914338 Job Number
E5447297935 Scan Code

TABLE 1 - MANDATORY EQUIPMENT EFFICIENCY WORKSHEET

SYSTEM TAG	EQUIPMENT TYPE (TABLES 6.8.1.A THROUGH G)	SIZE CATEGORY (TABLES 6.8.1.A THROUGH G)	SUB-CATEGORY OR RATING CONDITION (TABLES 6.8.1.A THROUGH G)	UNITS OF EFFICIENCY (TABLES 6.8.1.A THROUGH G)	MINIMUM EFFICIENCY RATED ≥ REQUIRED (TABLES 6.8.1.A THROUGH G)
ACS-C2-1	AIR CONDITIONERS, WATER COOLED	≥ 135,000 BTU/h and <240,000 BTU/h	SINGLE PACKAGE	EER IEER	13.1 ≥ 12.3 EER ≥ 12.5 IEER
ACS-1-1	AIR CONDITIONERS, WATER COOLED	≥ 135,000 BTU/h and <240,000 BTU/h	SINGLE PACKAGE	EER IEER	13.4 ≥ 12.3 EER ≥ 12.5 IEER
ACS-4-1	AIR CONDITIONERS, WATER COOLED	≥ 135,000 BTU/h and <240,000 BTU/h	SINGLE PACKAGE	EER IEER	13.4 ≥ 12.3 EER ≥ 12.5 IEER
ACS-7-1	AIR CONDITIONERS, WATER COOLED	≥ 135,000 BTU/h and <240,000 BTU/h	SINGLE PACKAGE	EER IEER	13.4 ≥ 12.3 EER ≥ 12.5 IEER
ACS-7-2	AIR CONDITIONERS, WATER COOLED	≥ 135,000 BTU/h and <240,000 BTU/h	SINGLE PACKAGE	EER IEER	13.3 ≥ 12.3 EER ≥ 12.5 IEER
ACS-27-1	AIR CONDITIONERS, WATER COOLED	≥ 65,000 BTU/h and <135,000 BTU/h	SINGLE PACKAGE	EER IEER	16.6 ≥ 11.9 EER ≥ 12.1 IEER
ACS-49-1	AIR CONDITIONERS, WATER COOLED	≥ 135,000 BTU/h and <240,000 BTU/h	SINGLE PACKAGE	EER IEER	16.7 ≥ 12.3 EER ≥ 12.5 IEER
ACS-72-1	AIR CONDITIONERS, WATER COOLED	≥ 135,000 BTU/h and <240,000 BTU/h	SINGLE PACKAGE	EER IEER	16.3 ≥ 12.3 EER ≥ 12.5 IEER
ACS-27-2	AIR CONDITIONERS, WATER COOLED	≥ 135,000 BTU/h and <240,000 BTU/h	SINGLE PACKAGE	EER IEER	13.3 ≥ 12.3 EER ≥ 12.5 IEER
ACS-49-2	AIR CONDITIONERS, WATER COOLED	≥ 135,000 BTU/h and <240,000 BTU/h	SINGLE PACKAGE	EER IEER	13.4 ≥ 12.3 EER ≥ 12.5 IEER
ACS-72-2	AIR CONDITIONERS, WATER COOLED	≥ 135,000 BTU/h and <240,000 BTU/h	SINGLE PACKAGE	EER IEER	13.3 ≥ 12.3 EER ≥ 12.5 IEER
AC-A	WATER SOURCE (COOLING MODE)	<17,000 BTU/h	86°F ENTERING WATER	EER	13.5 ≥ 11.2 EER
AC-B	WATER SOURCE (COOLING MODE)	≥ 17,000 BTU/h and <65,000 BTU/h	86°F ENTERING WATER	EER	14.3 ≥ 12.0 EER
AC-C	WATER SOURCE (COOLING MODE)	≥ 17,000 BTU/h and <65,000 BTU/h	86°F ENTERING WATER	EER	13.4 ≥ 12.0 EER
AC-D	WATER SOURCE (COOLING MODE)	≥ 17,000 BTU/h and <65,000 BTU/h	86°F ENTERING WATER	EER	13.4 ≥ 12.0 EER
AC-E	WATER SOURCE (COOLING MODE)	≥ 17,000 BTU/h and <65,000 BTU/h	86°F ENTERING WATER	EER	13.5 ≥ 12.0 EER
AC-F	WATER SOURCE (COOLING MODE)	≥ 17,000 BTU/h and <65,000 BTU/h	86°F ENTERING WATER	EER	13.2 ≥ 12.0 EER
AC-G	WATER SOURCE (COOLING MODE)	≥ 17,000 BTU/h and <65,000 BTU/h	86°F ENTERING WATER	EER	13.3 ≥ 12.0 EER
AC-H	WATER SOURCE (COOLING MODE)	≥ 17,000 BTU/h and <65,000 BTU/h	86°F ENTERING WATER	EER	13.4 ≥ 12.0 EER
CRAC-SC-1 TO 3	AIR CONDITIONERS, WATER COOLED	≥ 65,000 BTU/h and <135,000 BTU/h	SPLIT SYSTEM AND SINGLE PACKAGE	EER	12.76 ≥ 12.1 EER
AC-A	WATER SOURCE (HEATING MODE)	<135,000 BTU/h (COOLING CAPACITY	68°F ENTERING WATER	COP	4.3 ≥ 4.2 COP
AC-B	WATER SOURCE (HEATING MODE)	<135,000 BTU/h (COOLING CAPACITY	68°F ENTERING WATER	COP	5.0 ≥ 4.2 COP
AC-C	WATER SOURCE (HEATING MODE)	<135,000 BTU/h (COOLING CAPACITY	68°F ENTERING WATER	COP	4.7 ≥ 4.2 COP
AC-D	WATER SOURCE (HEATING MODE)	<135,000 BTU/h (COOLING CAPACITY	68°F ENTERING WATER	COP	4.6 ≥ 4.2 COP
AC-E	WATER SOURCE (HEATING MODE)	<135,000 BTU/h (COOLING CAPACITY	68°F ENTERING WATER	COP	4.4 ≥ 4.2 COP
AC-F	WATER SOURCE (HEATING MODE)	<135,000 BTU/h (COOLING CAPACITY	68°F ENTERING WATER	COP	4.3 ≥ 4.2 COP
AC-G	WATER SOURCE (HEATING MODE)	<135,000 BTU/h (COOLING CAPACITY	68°F ENTERING WATER	COP	4.7 ≥ 4.2 COP
AC-H	WATER SOURCE (HEATING MODE)	<135,000 BTU/h (COOLING CAPACITY	68°F ENTERING WATER	COP	4.3 ≥ 4.2 COP

TABLE 3 - AIR-CONDITIONING CONTROLS SYSTEMS WORKSHEET/ NARRATIVE

SYSTEM TAG	ACS-C2-1	ACS-1-1	ACS-4-1	ACS-7-1	ACS-7-2	ACS-27-1	ACS-49-1	ACS-72-1	ACS-27-2	ACS-49-2	ACS-72-2	AC-A	AC-B	AC-C (RES./ NONRES.)	AC-D (RES./ NONRES.)	AC-E (RES./ NONRES.)	AC-F (RES./ NONRES.)	AC-G (RES./ NONRES.)	AC-H (RES./ NONRES.)	CRAC-SC-1 TO 3
SUPPLY CFM	7,000	7,000	7,000	7,000	26,000	26,000	20,000	13,000	5,000	5,500	5,000	340	510	789	922	1,009	1,131	1,520	1,793	10,400
SUPPLY ESP	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2
FAN SYSTEM HP	10	10	10	10	40	40	30	20	7.5	7.5	7.5									
OA CFM	7,000	7,000	7,000	7,000	26,000	26,000	20,000	13,000	5,000	5,500	5,000	340	510	789	922	1,009	1,131	1,520	1,793	10,400
AUTOMATIC SHUTDOWN (SECTION 6.4.3.3.1)	C1	C1	C1	C1	C1	C2	C2	C2	C1	C1	C1	N2	N2	C2 / C1	C2 / C1	C2 / C1	C2 / C1	C2 / C1	C2 / C1	N1
DEAD BAND (SECTION 6.4.3.1.2)	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	N2
SETBACK CONTROLS (SECTION 6.4.3.3.2)	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	N1
OPTIMUM START CONTROLS (SECTION 6.4.3.3.3)	N3	N3	N3	N3	C1	N1	N1	N1	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N1
ZONE ISOLATION (SECTION 6.4.3.3.4)	N3	N3	N3	C1	C1	N1	N1	N1	N1	N1	N1	N4	N4	N4	N4	N4	N4	N4	N4	N1
SHUTOFF DAMPER CONTROLS (SECTION 6.4.3.4.2)	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	N3	N3	N3	N3	N3	N3	N3	N3	N3
HEAT PUMP AUX HEAT CONTROL (SECTION 6.4.3.5)	N1	N1	N1	N1	N1	N1	N1	N1	N1	N1	N1	N2	N2	N2	N2	N2	N2	N2	N2	N1
HUMIDIFIER PREHEAT (SECTION 6.4.3.6)	N1	N1	N1	N1	N1	N1	N1	N1	N1	N1	N1	N1	N1	N1	N1	N1	N1	N1	N1	C1
HUMIDIFICATION & DEHUMIDIFICATION (SECTION 6.4.3.7)	N1	N1	N1	N1	N1	N1	N1	N1	N1	N1	N1	N1	N1	N1	N1	N1	N1	N1	N1	C1
DUCT/PLENUM INSULATION (SECTION 6.4.4.1.2)	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1

NOTE:
1. REFER TO M-500 AND M-501 FOR SYSTEM TEMPERATURE SETPOINTS.
2. ALL SYSTEMS GREATER THAN 6,800 BTU/HR CAPACITY SHALL BE CAPABLE OF SETTING BACK TEMPERATURE TO 55°F DURING HEATING AND SETTING UP TO 85°F DURING COOLING.

TABLE 3 - CONTROLS LEGEND

AUTOMATIC SHUTDOWN	
C1	COMPLYING NONRESIDENTIAL TIME SWITCH WITH OVERRIDE
C2	COMPLYING RESIDENTIAL TIME SWITCH WITH OVERRIDE
N1	N/A – UNIT CONTINUOUSLY OPERATES
N2	N/A – UNIT IS <15 KBTU/H OR < 3/4 HP
N3	N/A – UNIT IS HOTEL/MOTEL GUESTROOM

DEAD BAND	
C1	DUAL SET POINT CONTROL
C2	MANUAL CHANGE OVER CONTROL
N1	N/A – SPECIAL OCCUPANCY
N2	N/A – UNIT PROVIDES HEATING OR COOLING ONLY

SETBACK CONTROLS	
C1	SETBACK PROVIDED (DOWN TO 55°F)
N1	N/A – UNIT CONTINUOUSLY OPERATES
N2	N/A – UNIT IS <15 KBTU/H OR < 3/4 HP
N3	N/A – 99.6% WINTER DB > 40°F
N4	N/A – RADIANT HEATING
N5	N/A – NO HEATING PROVIDED BY UNIT

OPTIMUM START CONTROLS	
C1	OPTIMUM START PROVIDED
N1	N/A CONTINUOUS OPERATION
N2	N/A <15 KBTU/H OR < 3/4 HP
N3	N/A SUPPLY </= 10,000 CFM

SHUTOFF DAMPER CONTROLS	
C1	MOTORIZED SHUTOFF DAMPERS ON OA AND EXH
C2	GRAVITY SHUTOFF DAMPERS ON OA AND EXH
N1	N/A – UNIT CONTINUOUSLY OPERATES
N2	N/A – UNIT IS <15 KBTU/H OR < 3/4 HP
N3	N/A – OA/EA FOR UNIT </= 300 CFM

ZONE ISOLATION	
C1	COMPLY – ISOLATION ZONES PROVIDED
N1	N/A – UNIT CONTINUOUSLY OPERATES
N2	N/A – UNIT IS <15 KBTU/H OR < 3/4 HP
N3	N/A – ALL ZONES ON SAME SCHEDULE
N4	N/A – OA/EA FOR UNIT </= 5,000 CFM

HEAT PUMP AUX HEAT CONTROL	
C1	CONTROLS PROVIDED
N1	N/A – SYSTEM NOT A HEAT PUMP
N2	N/A – AUX HEAT IS NOT ELECTRIC OR NOT PROVIDED
N3	N/A – HEAT PUMP COVERED BY NAECA

HUMIDIFIER PREHEAT	
C1	CONTROLS PROVIDED
N1	N/A – NO HUMIDIFIER

HUMIDIFICATION & DEHUMIDIFICATION	
C1	COMPLY – CONTROLS PROVIDED
N1	N/A – NO HUMIDIFICATION AND/OR DEHUMIDIFICATION

DUCT/PLENUM INSULATION	
C1	COMPLYING INSULATION PROVIDED
N1	N/A – ALL DUCTS LOCATED IN CONDITIONED SPACE

DUCTWORK INSULATION R-VALUE MINIMUM REQUIREMENTS

SERVICE	EXTERIOR	VENTILATED ATTIC	UNVENTED ATTIC ABOVE INSULATED CEILING	UNVENTED ATTIC WITH ROOF INSULATION	UNCONDITIONED SPACE	INDIRECTLY CONDITIONED SPACE	BURIED
HEATING ONLY SUPPLY DUCTWORK	R-3.5	–	–	–	–	–	–
COOLING ONLY SUPPLY DUCTWORK	R-3.5	R-3.5	R-6	R-1.9	R-1.9	–	–
COMBINED HEATING AND COOLING SUPPLY DUCTWORK	R-6	R-6	R-6	R-3.5	R-3.5	–	R-3.5
RETURN DUCTWORK	R-3.5	R-3.5	R-3.5	–	–	–	–

PIPING INSULATION R-VALUE MINIMUM REQUIREMENTS

SERVICE	INSULATION CONDUCTIVITY	PIPE SIZE				
		<1"	1" – <1 ½"	1 ½" – <4"	4" – <8"	>/= 8"
> 350°F	0.32 – 0.34	4.5	5.0	5.0	5.0	5.0
251°F – 350°F	0.29 – 0.32	3.0	4.0	4.5	4.5	4.5
201°F – 250°F	0.27 – 0.30	2.5	2.5	2.5	3.0	3.0
141°F – 200°F	0.25 – 0.29	1.5	1.5	2.0	2.0	2.0
105°F – 140°F	0.22 – 0.28	1.0	1.0	1.5	1.5	1.5
40°F – 60°F	0.21 – 0.27	0.5	0.5	1.0	1.0	1.0
< 40°F	0.20 – 0.26	0.5	1.0	1.0	1.0	1.5

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
30 PINE STREET, 17TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 60TH STREET
NEW YORK, NY 10017
tel 212.697.9668

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9678

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

EMU ENGINEER
ENTEK ENGINEERING
166 AMCS STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
300 PARK AVENUE SOUTH, 10TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

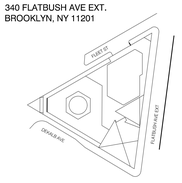
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2925

Latron TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4090

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

7.15.2016 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

NYC EC COMPLIANCE MANDATORY MEASURES SHEET NO. 2

SEAL & SIGNATURE

DATE	07.15.2016
PROJECT NO.	15466
DRAWN BY	BB
CHECKED BY	JS
DOB NO.	320914338

DRAWING NUMBER

EN.003.00

14 JULY 2016

DEPT OF BUILDINGS 320914338 Job Number

B3599662003 Scan Code

LUMINAIRE SCHEDULE

	TYPE	SYMBOL	BRIEF DESCRIPTION	SPECIFIC LOCATION	LAMPS QTY	LAMPS WATTS	LAMPS DESCRIPTION	BALLAST / TRANSFORMER / POWER SUPPLY TYPE	VOLTS	MAX SYSTEM WATTS	SPECIFIED BY	FIXTURE SPECIFICATION	REMARKS
PUBLIC AREAS	LT-371		RECESSED PENDANT	RESIDENTIAL CORRIDORS	1	22W	LED	DIMMING – 0-10V	120V	22W	JB&B	VISUAL COMFORT & CO.: TOB4203	–
	LT-716		RECESSED DOWNLIGHT	BATHROOMS/LOCKER ROOMS	1	22W	LED	DIMMING – 0-10V	120V	22W	JB&B	VISUAL COMFORT & CO.: TOB2214	–
BACK-OF-HOUSE	FJ1		SURFACE-MOUNTED	IT CLOSETS	1	32W	CFL PL-T	DIMMING – CFL	120V	32W	JB&B	EXCELINE: RLW/RLP-26PLT-HF-L-G-C-X ALTERNATE(S): STONCO, HUBBELL, GUTH	–
	FJ2		SURFACE-MOUNTED	OUTSIDE MECHANICAL AREAS/PLENUMS/ENTRY LIGHTING	1	32W	CFL PL-T	DIMMING – CFL	120V	32W	JB&B	EXCELINE: RLW/RLP-32PLT-HF-L-G-C-X ALTERNATE(S): STONCO, HUBBELL, GUTH	–
	FK		PENDANT/SURFACE-MOUNTED INDUSTRIAL	MECHANICAL / GENERAL BOH	2	32W	FLUORESCENT T8	DIMMING – T8	120V	64W	JB&B	NATIONAL: 1248-A-RS-X-TBEB ALTERNATES: METALUX, LIGHTOLIER, LEGION	–
	FS		SURFACE-MOUNTED LENSED	STAIRS	2	32W	FLUORESCENT T8	DIMMING – T8	120V	64W	JB&B	LEGION: 4306-232-ACP-EBO-DL ALTERNATES: LIGHTOLIER, NATIONAL	–
	EX		EXIT SIGNAGE	VARIOUS	1	5W	LED	DIMMING – 0-10V	120V	5W	JB&B	NAVLITE: NNYXERBIRAA ALTERNATES: S-C/W-1/2-6-RC-SA, LIGHTALARMS, MOPHLBEN, SAFE-T-LITE	PROVIDE WITH 90 MINUTE INTEGRAL BATTERY
EM LIGHTING	EM		EMERGENCY: UNSWITCHED LIGHTING FIXTURE POWERED BY AN EMERGENCY CIRCUIT FROM AN EM-LP	RESIDENTIAL LOBBY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	–
	EM/NL		EMERGENCY NIGHTLIGHT: UNSWITCHED LIGHTING FIXTURE POWERED BY A NORMAL CIRCUIT PROVIDED WITH A 90 MIN. INTEGRAL BATTERY BALLAST	MECHANICAL ROOMS/GENERAL BOH/STAIRS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	–
	EM/BB		EMERGENCY NIGHTLIGHT: SWITCHED LIGHTING FIXTURE POWERED BY A NORMAL CIRCUIT PROVIDED WITH A 90 MIN. INTEGRAL BATTERY BALLAST	RETAIL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	–

LIGHTING CONTROL NARRATIVE

SPACE TYPE	LIGHTING CONTROL DESCRIPTION
STORAGE	MANUAL TOGGLE SWITCH ON, VACANCY SENSOR FOR AUTOMATIC SHUTOFF
RESTROOMS	MANUAL TOGGLE SWITCH ON, VACANCY SENSOR FOR AUTOMATIC SHUTOFF
LOCKER ROOM	MANUAL TOGGLE SWITCH ON, VACANCY SENSOR FOR AUTOMATIC SHUTOFF
LOUNGE/RECREATION	MANUAL TOGGLE SWITCH ON , OCCUPANCY SENSOR FOR AUTOMATIC CONTROLS
WAREHOUSE (RETAIL)	MANUAL TOGGLE SWITCH ON/OFF
WORKSHOP	MANUAL TOGGLE SWITCH ON, VACANCY SENSOR FOR AUTOMATIC SHUTOFF
ELEC/MECH	MANUAL TOGGLE SWITCH ON/OFF
ELEVATOR LOBBY (FIRE LOBBY AND 1ST FLOOR RESIDENTIAL ELEVATOR LOBBY)	NO CONTROLS – 24HR LIGHTING
RESIDENTIAL LOBBY	24HR LIGHTING PHOTOSENSORS SHALL DIM LIGHTING FIXTURES TO 50% POWER WHEN LOBBY NOT IN USE
CORRIDOR	AUTOMATIC TIME CLOCK PLUS OCCUPANCY SENSORS WITH TOGGLE SWITCH
STAIRS	24HR LIGHTING OCCUPANCY SENSORS SHALL DIM LIGHTING FIXTURES TO 50% POWER WHEN STAIRWELLS NOT IN USE
PARKING/GARAGE	24HR LIGHTING OCCUPANCY SENSORS SHALL DIM LIGHTING FIXTURES TO 30% POWER WHEN THERE IS NO ACTIVITY DETECTED FOR MORE THAN 30 MINUTES.
EXTERIOR – RESIDENTIAL LOBBY ENTRANCE	AUTOMATIC TIME CLOCK WITH PHOTOSENSORS AND OCCUPANCY SENSORS. EXTERIOR LIGHTING SHALL BE DIMMABLE BY 30% DURING THE TIME OF 12AM TO 6AM (00:00 – 06:00). LIGHTS ABOVE AREA OF DISCHARGE SHALL BE CONTROLLED BY OCCUPANCY SENSORS. LIGHTS SHALL DIM BY 30% WHEN NO ACTIVITY IS DETECTED FOR 15 MINUTES.
EXTERIOR – CROWN	AUTOMATIC TIME CLOCK WITH PHOTOSENSORS. EXTERIOR LIGHTING SHALL BE DIMMABLE BY 30% DURING THE TIME OF 12AM TO 6AM (00:00 – 06:00).

SYMBOL LEGEND

SYMBOL	DESCRIPTION
OS	CEILING MOUNTED, LOW VOLTAGE OCCUPANCY SENSOR LIGHTING CONTROL. SUB-LETTER INDICATES SWITCHING GROUP. IF NO SUB-LETTER, THEN SWITCH CONTROLS LIGHT IN ROOM. PROVIDE ALL REQUIRED POWER PACKS FOR PROPER OPERATION.
VS	WALL MOUNTED, LINE VOLTAGE VACANCY SENSOR LIGHTING CONTROL. SUB-LETTER INDICATES SWITCHING GROUP. IF NO SUB-LETTER, THEN SWITCH CONTROLS LIGHT IN ROOM.
VS	CEILING MOUNTED, LINE VOLTAGE VACANCY SENSOR LIGHTING CONTROL. SUB-LETTER INDICATES SWITCHING GROUP. IF NO SUB-LETTER, THEN SWITCH CONTROLS LIGHT IN ROOM.
OSP	CEILING MOUNTED, LOW VOLTAGE PHOTOSENSOR LIGHTING CONTROL. PROVIDE ALL REQUIRED POWER PACKS FOR PROPER OPERATION. PHOTOSENSORS SHALL HAVE THE ABILITY TO DIM LIGHTING FIXTURES BY AT MINIMUM 30%.
SP	EXTERIOR WALL/FACADE MOUNTED, LOW VOLTAGE PHOTOSENSOR LIGHTING CONTROL. PROVIDE ALL REQUIRED POWER PACKS FOR PROPER OPERATION. PHOTOSENSORS SHALL HAVE THE ABILITY TO DIM LIGHTING FIXTURES BY 30% BETWEEN THE HOURS OF 12AM AND 6AM (00:00 AND 06:00) AND WHEN INACTIVITY IS DETECTED FOR A TIME PERIOD OF 15 MINUTES..
$	WALL MOUNTED 20A-120V SINGLE POLE LIGHT SWITCH. SUB-LETTER INDICATES SWITCHING GROUP. IF NO SUB-LETTER, THEN SWITCH CONTROLS LIGHT IN ROOM.
$3	WALL MOUNTED 20A-120V THREE WAY LIGHT SWITCH. SUB-LETTER INDICATES SWITCHING GROUP. IF NO SUB-LETTER, THEN SWITCH CONTROLS LIGHT IN ROOM.

BUILDING DEPARTMENT NOTES

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

PROFESSIONAL'S STATEMENT

TO THE BEST OF OUR KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH 2014 NYC EC VIA APPLICATION OF ASHRAE 90.1-2010 AS MODIFIED BY APPENDIX A.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 15TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.697.9868

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9678

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY, SUITE 500
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768-6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
166 ARCS STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
350 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

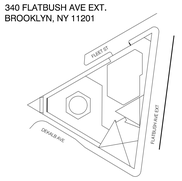
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2925

Lefcon TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4060

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

7.15.2016 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

NYC EC COMPLIANCE - LIGHTING FIXTURES SCHEDULE

SEAL & SIGNATURE

CITY OF NEW YORK DEPARTMENT OF BUILDINGS

DATE	07.15.2016
PROJECT NO.	15466
DRAWN BY	BB
CHECKED BY	JS
DOB NO.	320914338

DRAWING NUMBER

EN.004.00

14 JULY 2016

DEPT OF BUILDINGS 320914338 Job Number

B.5899972608 Scan Code

			LT-371	LT-716	FI-1	FI-2	FK	FS	Total Wattage (equal to baseline value; no lighting is specified)	Total Area	LPD	MODEL SPACE CONDITIONS	ASHRAE Space Type
			22	22	32	32	32	32					
Space	Area	Multiplier								693,235			
SC-TRASH	416	1						16	96	416	0.23	TRASH-SC	Active Storage
SC-OLD-STORAGE-C	2,232	1						100	320	2,232	0.14	STORAGE-SC	Active Storage
SC-STORAGE	6,736	1						42	1,344	6,736	0.20	STORAGE-SC	Active Storage
SC-CORR	3,241	1					23		736	3,241	0.23	CORR-SC	Corridor/Transition
SC-WORK	414	1						6	96	414	0.23	WORK-SC	Workshop
SC-LOCKER	600	1			2			4	172	600	0.29	LOCKER-SC	Locker Room
SC-ELEC	1,761	1						11	192	1,761	0.11	ELEC-SC	Electrical/Mechanical
SC-STAIR	1,039	1					2		64	1,039	0.06	STAIR-SC	Stairway
SC-AMENITY	4,255	1						20	936	4,255	0.22	AMENITY-SC	Active/Recreation
SC-MECH	1,015	1						4	128	1,015	0.13	MECH-SC	Electrical/Mechanical
SC-BREAK	558	1						5	160	558	0.29	BREAK-SC	Lounge/Recreation
SC-OFC	221	1						2	64	221	0.29	OFFICE-SC	Office/Enclosed
SC-TEL	1,496	1						7	224	1,496	0.15	TEL-SC	Electrical/Mechanical
SC-LAUNDRY	473	1						6	192	473	0.40	LAUNDRY-SC	Active Storage
SC-LOBBY	558	1							0	558	0.00	LOBBY-SC	Lobby
SC-SHAFT	1,761	1							0	1,761	0.00	SHAFT-SC	Shaft
C-CORR	2,875	1						38	1,216	2,875	0.45	CORR-SC	Corridor/Transition
C-METAL	3,539	1							5,743	3,539	1.68	METAL-SC	Retail/Sales Area
C-STORAGE	1,010	1				1		4	160	1,010	0.16	STORAGE-SC	Active Storage
C-MECH	6,813	1						54	1,728	6,813	0.25	MECH-SC	Electrical/Mechanical
C-STORAGE-C	1,766	1						19	608	1,766	0.34	STORAGE-SC	Active Storage
C-TOILET	864	1		30					220	864	0.25	TOILET-SC	Restrooms
C-PARKING	23,174	1						139	6,240	23,174	0.27	PARKING-SC	Parking Garage
C-OLD-CORR-CW	1,726	1						6	192	1,726	0.11	CORR-SC	Corridor/Transition
C-OLD-STORAGE	574	1						6	192	574	0.17	STORAGE-SC	Active Storage
C-STAIR-CS	538	1					1		32	538	0.26	STAIR-SC	Stairway
C-STAIR	1,516	1					4		128	1,516	0.10	STAIR-SC	Stairway
C-ELEC	76	1					1		32	76	0.41	ELEC-SC	Electrical/Mechanical
L-LOBBY-R	2,160	1	19						414	2,160	0.19	LOBBY-SC	Lobby
L-CORR	144	1					1		32	144	0.22	CORR-SC	Corridor/Transition
L-LOBBY-RW (VESTIBULE)	1,512	1							872	1,512	0.58	LOBBY-SC	Lobby/For Elevator
L-COOKING-C	1,311	1							872	1,311	0.66	COOKING-SC	Corridor/Transition
L-OLD-STORAGE-C	295	1					2		64	295	0.22	STORAGE-SC	Active Storage
L-LOADING-R	986	1							872	986	0.66	LOADING-SC	Loading Dock/Interior
L-STAIR-CN	478	1	1						22	478	0.05	STAIR-SC	Stairway
L-BOH-R	178	1					1		96	178	0.54	BOH-SC	Active Storage
L-OLD-RETAIL-W	17,658	1							29,666	17,658	1.68	METAL-SC	Retail/Sales Area
L-OLD-BOH-SE	385	1					1		96	385	0.25	BOH-SC	Active Storage
L-OLD-LOBBY-CS	566	1	2				1		340	566	0.25	LOBBY-SC	Lobby
L-OLD-CORR-CS	1,181	1							192	1,181	0.16	CORR-SC	Corridor/Transition
L-OLD-BOH-CS	4148	1					4		64	4148	0.15	BOH-SC	Active Storage
L-RETAIL-NE	3,924	1							6,592	3,924	1.68	METAL-SC	Retail/Sales Area
L-VEST-CE	166	1							111	166	0.66	VEST-SC	Retail/Sales Area
L-GLASS-RETAIL-SE (DOUBLE HIGH)	5,456	1							9,166	5,456	1.68	METAL-SC	Retail/Sales Area
L-STORAGE	506	1					4		128	506	0.25	STORAGE-SC	Active Storage
L-TOILET	96	1		1				22	96	96	0.25	TOILET-SC	Restrooms
L-LOBBY	1,502	1	18						346	1,502	0.23	LOBBY-SC	Lobby/For Elevator
L-OLD-LOUNGE	2,910	1							396	2,910	0.14	LOUNGE-SC	Lounge/Recreation
L-OLD-MAIL	681	1	10						220	681	0.32	MAIL-SC	Office/Enclosed
L-OLD-STAIR	193	1					2		64	193	0.28	STAIR-SC	Electrical/Mechanical
L-OLD-STAIR-CW	274	1						1	32	274	0.12	STAIR-SC	Stairway
L-GLASS-STAIR-CS	261	1						1	32	261	0.12	STAIR-SC	Stairway
L-STAIR-E	874	1					2		64	874	0.07	STAIR-SC	Stairway
L-ELEV_LOBBY	763	1	5						160	763	0.21	ELEV-LOBBY-SC	Lobby/For Elevator
L-ELEC	78	1			1		1		64	78	0.82	ELEC-SC	Electrical/Mechanical
L-CORR	7,199	1				1		64	2,048	7,199	0.28	CORR-SC	Corridor/Transition
L-SHAFT	1,459	1							0	1,459	0.00	SHAFT-SC	Shaft
L-RETAIL-CORE	5,940	1							9,947	5,940	1.68	METAL-SC	Retail/Sales Area
L-STAIR	958	1							160	958	0.17	STAIR-SC	Stairway
L-TOILET	176	1		2					64	176	0.25	TOILET-SC	Restrooms
L-STAIR-CN	499	1							344	499	0.69	STAIR-SC	Stairway
L-STORAGE-C	377	1						8	96	377	0.25	STORAGE-SC	Active Storage
L-OLD-STAIR-CS	753	1							128	753	0.17	STAIR-SC	Stairway
L-ELEV_LOBBY	753	1							160	753	0.21	ELEV-LOBBY-SC	Lobby/For Elevator
L-ELEC	78	1					1		32	78	0.41	ELEC-SC	Electrical/Mechanical
L-METAL-E	4,352	1							7,313	4,352	1.68	METAL-SC	Retail/Sales Area
C-RETAIL-N	3,314	1							5,568	3,314	1.68	METAL-SC	Retail/Sales Area
C-SHAFT	1,412	1							0	1,412	0.00	SHAFT-SC	Shaft
L-CORR	338	1						1	32	338	0.09	CORR-SC	Corridor/Transition
L-TOILET	119	1		2					32	119	0.27	TOILET-SC	Restrooms
L-STORAGE-C	155	1					2		64	155	0.41	STORAGE-SC	Active Storage
L-ELEC	78	1							32	78	0.41	ELEC-SC	Electrical/Mechanical
L-CLASS-S	640	1							96	640	0.15	CLASS-SC	Classroom/Exercise Center/Playing Area
L-MERCANT-CORE	7,640	1							12,836	7,640	1.68	MERCANT-SC	Retail/Sales Area
L-OLD-STAIR-CW	286	1							192	286	0.67	STAIR-SC	Stairway
L-ELEV_LOBBY	753	1							482	753	0.64	ELEV-LOBBY-SC	Lobby/For Elevator
L-ELEC	78	1					1		64	78	0.82	ELEC-SC	Electrical/Mechanical
L-MERCANT-E	2,309	1							3,876	2,309	1.68	MERCANT-SC	Retail/Sales Area
L-MERCANT-N	1,538	1							2,584	1,538	1.68	MERCANT-SC	Retail/Sales Area
L-STAIR	1,178	1							192	1,178	0.16	STAIR-SC	Stairway
L-TOILET	1,064	1						4	128	1,064	0.06	TOILET-SC	Restrooms
L-POOL	3,484	1						22	794	3,484	0.20	POOL-SC	Gymnasium/Exercise Center/Playing Area
A-OLD-MERCANT-CORE	8,288	1							13,924	8,288	1.68	MERCANT-SC	Retail/Sales Area
A-OLD-MECH	4,996	1						39	1,248	4,996	0.25	MECH-SC	Electrical/Mechanical
A-OLD-STAIR-CW	170	1						10	320	170	1.89	STAIR-SC	Stairway
A-OLD-MERCANT-NW	4,963	1							8,337	4,963	1.68	MERCANT-SC	Retail/Sales Area
A-STAIR	936	1						4	128	936	0.14	STAIR-SC	Stairway
A-MERCANT-CW-CS	1,094	1						1	160	1,094	0.15	MERCANT-SC	Retail/Sales Area
A-MERCANT-CORE	7,099	1							11,919	7,099	1.68	MERCANT-SC	Retail/Sales Area
A-ELEV_LOBBY	753	1						5	160	753	0.21	ELEV-LOBBY-SC	Lobby/For Elevator
A-ELEC	78	1					1		64	78	0.82	ELEC-SC	Electrical/Mechanical
A-MERCANT-E	2,309	1							3,876	2,309	1.68	MERCANT-SC	Retail/Sales Area
S-BOH	495	1					2		224	495	0.45	BOH-SC	Active Storage
S-AMENITY-S	2,428	1						6	1,216	2,428	0.73	AMENITY-SC	Lounge/Recreation
S-AMENITY-E	1,927	1						9	288	1,927	0.23	AMENITY-SC	Lounge/Recreation
S-AMENITY-NW	2,597	1						14	448	2,597	0.17	AMENITY-SC	Lounge/Recreation
S-ELEC	1,761	1						11	352	1,761	0.20	ELEC-SC	Electrical/Mechanical
S-TOILET	150	1		2					64	150	0.43	TOILET-SC	Restrooms
S-STORAGE	73	1						2	64	73	0.87	STORAGE-SC	Active Storage
S-CORR	1,334	1						3	96	1,334	0.07	STAIR-SC	Stairway
S-STAIR-CS	218	1					1		32	218	0.15	STAIR-SC	Stairway
S-ELEV_LOBBY	443	1						1	160	443	0.36	ELEV-LOBBY-SC	Lobby/For Elevator
S-ELEC	78	1					1		64	78	0.82	ELEC-SC	Electrical/Mechanical
S-STAIR	1,516	1					4		128	1,516	0.10	STAIR-SC	Stairway
S-AMENITY-W	1,141	1						6	288	1,141	0.25	AMENITY-SC	Lounge/Recreation
S-STAIR	523	1							96	523	0.18	STAIR-SC	Stairway
A-AMENITY-S	2,561	1						12	384	2,561	0.15	AMENITY-SC	Lounge/Recreation
A-AMENITY-E	2,477	1						18	576	2,477	0.23	AMENITY-SC	Lounge/Recreation
A-AMENITY-NW	2,406	1						20	640	2,406	0.27	AMENITY-SC	Lounge/Recreation
A-ELEV_LOBBY	442	1						5	160	442	0.36	ELEV-LOBBY-SC	Lobby/For Elevator
A-ELEC	78	1					1		64	78	0.82	ELEC-SC	Electrical/Mechanical
T-MIR	272	1					2		64	272	0.23	MIR-SC	Electrical/Mechanical
T-CORR	1,334	1						3	96	1,334	0.07	CORR-SC	Corridor/Transition
T-STAIR	493	1							96	493	0.19	STAIR-SC	Stairway
T-CORR	427	1					2		64	427	0.15	CORR-SC	Corridor/Transition
T-ELEC	78	1							16	78	0.95	ELEC-SC	Electrical/Mechanical
TM-STAIR	235	1					2		64	235	0.27	STAIR-SC	Stairway
TM-CORR	427	1					2		64	427	0.15	CORR-SC	Corridor/Transition
TM-ELEC	78	1			1		1		64	78	0.82	ELEC-SC	Electrical/Mechanical

B-2Bz-W	972	4							5,838	5,838	1.00	DIR-SC	Dwelling Unit
B-0Bz-W	448	4							2,678	2,678	1.00	DIR-SC	Dwelling Unit
B-1Bz-SW	735	4							4,400	4,400	1.00	DIR-SC	Dwelling Unit
B-2Bz-S	1,098	4							6,590	6,590	1.00	DIR-SC	Dwelling Unit
B-1Bz-SE	758	4							4,545	4,545	1.00	DIR-SC	Dwelling Unit
B-2Bz-E	1,160	4							6,958	6,958	1.00	DIR-SC	Dwelling Unit
B-1Bz-E	644	4							3,862	3,862	1.00	DIR-SC	Dwelling Unit
B-2Bz-N	1,160	4							6,958	6,958	1.00	DIR-SC	Dwelling Unit
B-1Bz-N	780	4							4,727	4,727	1.00	DIR-SC	Dwelling Unit
B-1Bz-NW	733	4							4,400	4,400	1.00	DIR-SC	Dwelling Unit
B-STAIR	258	4						2	384	3,920	0.25	STAIR-SC	Dwelling Unit
B-CORR	912	4						61	1,344	5,455	0.23	CORR-SC	Corridor/Transition
B-ELEC	78	4						1	64	909	0.82	ELEC-SC	Electrical/Mechanical
1-1Bz-W	973	4							973	973	1.00	DIR-SC	Dwelling Unit
1-0Bz-W	446	4							446	446	1.00	DIR-SC	Dwelling Unit
1-2Bz-SW	735	4							735	735	1.00	DIR-SC	Dwelling Unit
1-1Bz-S	676	4							676	676	1.00	DIR-SC	Dwelling Unit
1-2Bz-SE	1,098	4							4,126	4,126	1.00	DIR-SC	Dwelling Unit
1-1Bz-E	962	4							5,776	5,776	1.00	DIR-SC	Dwelling Unit
1-2Bz-N	1,160	4							6,958	6,958	1.00	DIR-SC	Dwelling Unit
1-1Bz-NW	733	4							4,400	4,400	1.00	DIR-SC	Dwelling Unit
1-STAIR	258	4						2	384	3,920	0.25	STAIR-SC	Dwelling Unit
1-CORR	870	4						61	1,344	5,218	0.26	CORR-SC	Corridor/Transition
1-ELEC	78	4						1	64	909	0.86	ELEC-SC	Electrical/Mechanical
2-1Bz-W	973	4							973	973	1.00	DIR-SC	Dwelling Unit
2-0Bz-W	446	4							446	446	1.00	DIR-SC	Dwelling Unit
2-2Bz-SW	735	4							735	735	1.00	DIR-SC	Dwelling Unit
2-1Bz-S	676	4							676	676	1.00	DIR-SC	Dwelling Unit
2-2Bz-SE	1,098	4							1,098	1,098	1.00	DIR-SC	Dwelling Unit
2-1Bz-E	962	4							5,776	5,776	1.00	DIR-SC	Dwelling Unit
2-1-STAIR	258	4						2	384	3,920	0.25	STAIR-SC	Dwelling Unit
2-1-CORR	870	4						61	1,344	5,218	0.26	CORR-SC	Corridor/Transition
2-1-ELEC	78	4						1	64	909	0.86	ELEC-SC	Electrical/Mechanical
2-2Bz-W	973	4							4,863	4,863	1.00	DIR-SC	Dwelling Unit
2-0Bz-W	446	4							2,232	2,232	1.00	DIR-SC	Dwelling Unit
2-0Bz-SW	529	5							2,645	2,645	1.00	DIR-SC	Dwelling Unit
2-1Bz-S	1,352	5							6,760	6,760	1.00	DIR-SC	Dwelling Unit
2-0Bz-SE	532	5							2,661	2,661	1.00	DIR-SC	Dwelling Unit
2-1Bz-E	1,388	5							6,940	6,940	1.00	DIR-SC	Dwelling Unit
2-1Bz-NE	688	5							3,439	3,439	1.00	DIR-SC	Dwelling Unit
2-2Bz-N	963	5							4,814	4,814	1.00	DIR-SC	Dwelling Unit
2-1Bz-NW	733	5							3,666	3,666	1.00	DIR-SC	Dwelling Unit
2-STAIR	259	5						2	320	1,294	0.25	STAIR-SC	Stairway
2-2-CORR	870	5						61	1,120	4,348	0.26	CORR-SC	Corridor/Transition
2-2-ELEC	78	5						1	320	390	0.82	ELEC-SC	Electrical/Mechanical
2-LOBBY	7,200	5						64	1,120	4,348	0.26	LOBBY-SC	Lobby/For Elevator
27-CORR	360	5					4		128	640	0.18	CORR-SC	Corridor/Transition
27-STAIR	332	5						2	64	332	0.19	STAIR-SC	Stairway
27-ELEC	78	5							74	78	0.95	ELEC-SC	Electrical/Mechanical
27M-CORR	303	5							200	303	0.66	CORR-SC	Corridor/Transition
27M-STAIR	258	5							178	258	0.69	STAIR-SC	Stairway
27M-ELEC	78	5							74	78	0.95	ELEC-SC	Electrical/Mechanical
2-LOBBY-RW	1,512	5						8	872	1,512	0.58	LOBBY-SC	Lobby/For Elevator
28-2Bz-SE	1,221	5							6,107	6,107	1.00	DIR-SC	Dwelling Unit
28-2Bz-SE	1,152	5							5,762	5,762	1.00	DIR-SC	Dwelling Unit
28-2Bz-NE	1,318	5							6,590	6,590	1.00	DIR-SC	Dwelling Unit
28-1Bz-W	739	5							3,697	3,697	1.00	DIR-SC	Dwelling Unit
28-2Bz-S	1,104	5							5,520	5,520	1.00	DIR-SC	Dwelling Unit
28-1Bz-W	847	5							4,234	4,234	1.00	DIR-SC	Dwelling Unit
28-1Bz-NW	748	5							3,741	3,741	1.00	DIR-SC	Dwelling Unit
28-STAIR	259	5						2	320	1,294	0.25	STAIR-SC	Stairway
28-CORR	912	5						61	1,120	4,348	0.26	CORR-SC	Corridor/Transition
28-ELEC	78	5						1	320	390	0.82	ELEC-SC	Electrical/Mechanical
28-2Bz-NE	1,221	5							6,107	6,107	1.00	DIR-SC	Dwelling Unit
28-2Bz-SE	1,152	5							5,762	5,762	1.00	DIR-SC	Dwelling Unit
28-2Bz-NE	1,318	5							1,318	1,318	1.00	DIR-SC	Dwelling Unit
28-1Bz-W	739	5							739	739	1.00	DIR-SC	Dwelling Unit
28-2Bz-S	1,104	5							1,104	1,104	1.00	DIR-SC	Dwelling Unit
28-1Bz-W	847	5							847	847	1.00	DIR-SC	Dwelling Unit
28-1Bz-NW	748	5							748	748	1.00	DIR-SC	Dwelling Unit
28-STAIR	259	5						2	64	259	0.25	STAIR-SC	Stairway
28-CORR	912	5						61	1,120	4,348	0.26	CORR-SC	Corridor/Transition
28-ELEC	78	5						1	320	390	0.82	ELEC-SC	Electrical/Mechanical
28-LOBBY	7,200	5						64	1,120	4,348	0.26	LOBBY-SC	Lobby/For Elevator
29-2Bz-W	972	5							4,863	4,863	1.00	DIR-SC	Dwelling Unit
29-0Bz-W	446	5							2,232	2,232	1.00	DIR-SC	Dwelling Unit
29-0Bz-SW	529	5							2,645	2,645	1.00	DIR-SC	Dwelling Unit
29-1Bz-S	1,352	5							6,760	6,760	1.00	DIR-SC	Dwelling Unit
29-0Bz-SE	532	5							2,661	2,661	1.00	DIR-SC	Dwelling Unit
29-1Bz-E	1,388	5							6,940	6,940	1.00	DIR-SC	Dwelling Unit
29-1Bz-NE	688	5							3,439	3,439	1.00	DIR-SC	Dwelling Unit
29-2Bz-N	963	5							4,814	4,814	1.00	DIR-SC	Dwelling Unit
29-1Bz-NW	733	5							3,666	3,666	1.00	DIR-SC	Dwelling Unit
29-STAIR	259	5						2	320	1,294	0.25	STAIR-SC	Stairway
29-CORR	870	5						61	1,120	4,348	0.26	CORR-SC	Corridor/Transition
29-ELEC	78	5						1	320	390	0.82	ELEC-SC	Electrical/Mechanical
29-LOBBY	7,200	5						64	1,120	4,348	0.26	LOBBY-SC	Lobby/For Elevator
29-2Bz-NE	1,221	5							6,107	6,107	1.00	DIR-SC	Dwelling Unit
29-2Bz-SE	1,152	5							5,762	5,762	1.00	DIR-SC	Dwelling Unit
29-2Bz-NE	1,318	5							1,318	1,318	1.00	DIR-SC	Dwelling Unit
29-1Bz-W	739	5							739	739	1.00	DIR-SC	Dwelling Unit
29-2Bz-S	1,104	5							1,104	1,104	1.00	DIR-SC	Dwelling Unit
29-1Bz-W	847	5							847	847	1.00	DIR-SC	Dwelling Unit
29-1Bz-NW	748	5							748	748	1.00	DIR-SC	Dwelling Unit
29-STAIR	259	5						2	64	259	0.25	STAIR-SC	Stairway
29-CORR	912	5						61	1,120	4,348	0.26	CORR-SC	Corridor/Transition
29-ELEC	78	5						1	320	390	0.82	ELEC-SC	Electrical/Mechanical
29-LOBBY	7,200	5						64	1,120	4,348	0.26	LOBBY-SC	Lobby/For Elevator
29-2Bz-NW	1,208	4							4,913	4,913	1.00	DIR-SC	Dwelling Unit
30-2Bz-S	1,221	5							1,221	1,221	1.00	DIR-SC	Dwelling Unit
30-2Bz-W	1,107	5							1,107	1,107	1.00	DIR-SC	Dwelling Unit
30-2Bz-NE	1,318	5							1,318	1,318	1.00	DIR-SC	Dwelling Unit
30-1Bz-W	847	5							847	847	1.00	DIR-SC	Dwelling Unit
30-1Bz-S	765	5							765	765	1.00	DIR-SC	Dwelling Unit
30-1Bz-E	843	5							843	843	1.00	DIR-SC	Dwelling Unit
30-1Bz-NW	748	5							748	748	1.00	DIR-SC	Dwelling Unit
30-STAIR	259	5						2	64	259	0.25	STAIR-SC	Stairway
30-LOBBY	504	5						1	160	504	0.32	LOBBY-SC	Lobby/For Elevator
31-ELEC	71	5							64	71	0.91	ELEC-SC	Electrical/Mechanical
31-CORR	1,344	5						61	1,344	4,626	0.29	CORR-SC	Corridor/Transition
31-STAIR	258	5						2	384	3,920	0.25	STAIR-SC	Dwelling Unit
31-LOBBY	504	5						1	160	504	0.32	LOBBY-SC	Lobby/For Elevator
4A-CORR	530	5					1	4	160	530	0.30	CORR-SC	Corridor/Transition
4A-ELEC	71	5					1		64	71	0.91	ELEC-SC	Electrical/Mechanical
4S-2Bz-SW	1,221	4							4,886	4,886	1.00	DIR-SC	Dwelling Unit
4S-1Bz-SW	739	4							3,076	3,076	1.00	DIR-SC	Dwelling Unit
4S-2Bz-NE	1,210	4							4,840	4,840	1.00	DIR-SC	Dwelling Unit
4S-1Bz-NW	748	4							3,146	3,146	1.00	DIR-SC	Dwelling Unit
4S-1Bz-N	786	4							3,146	3,146	1.00	DIR-SC	Dwelling Unit
4S-STAIR	259	4					2		256	1,035	0.25	STAIR-SC	Stairway
4S-CORR	530	4					1	4	640	2,122	0.30	CORR-SC	Corridor/Transition
4S-ELEC	71	4					1		256	283	0.91	ELEC-SC	Electrical/Mechanical
4B-ARCH	6,203	1						42	1,344	6,203	0.27	WORK-SC	Electrical/Mechanical
4B-MECH	1,000	1						7	224	1,000	0.22	MECH-SC	Electrical/Mechanical
4B-STAIR	188	1						1	64	188	0.17	STAIR-SC	Stairway
4S-ELEC	71	1						1	32	71	0.45	ELEC-SC	Electrical/Mechanical
5G-CORR	312	1							64	312	0.21	CORR-SC	Corridor/Transition
5G-STAIR	257	1						2	64	257	0.25	STAIR-SC	Stairway
5G-ELEC	71	1							64	71	0.91	ELEC-SC	Electrical/Mechanical
5G-SHAFT	348	1							0	348	0.00	SHAFT-SC	Shaft
51-2Bz-NW	1,177	1							1,177	1,177	1.00	DIR-SC	Dwelling Unit
51-1Bz-SE	768	1							768	768	1.00	DIR-SC	Dwelling Unit
51-2Bz-NE	1,210	1							1,210	1,210	1.00	DIR-SC	Dwelling Unit
51-1Bz-NW	873	1							873	873	1.00	DIR-SC	Dwelling Unit
51-1Bz-S	769	1							769	769	1.00	DIR-SC	Dwelling Unit
51-1Bz-N	786	1							786	786	1.00	DIR-SC	Dwelling Unit
51-STAIR	258	1					2		64	258	0.25	STAIR-SC	Stairway
51-CORR	530	1					1	4	160	530	0.30	CORR-SC	Corridor/Transition
51-ELEC	71	1	1				1		64	71	0.91	ELEC-SC	Electrical/Mechanical
52-2Bz-NW	1,177	1							3,530	3,530	1.00	DIR-SC	Dwelling Unit
52-1Bz-SE	768	1							2,304	2,304	1.00	DIR-SC	Dwelling Unit
52-2Bz-NE	1,210	1							3,630	3,630	1.00	D

DEPT OF BUILDINGS 320914336 Job Number
E3436283279 Scan Code

NYC Buildings

Do not submit separately. Must be incorporated in the drawing set

EN1: Energy Cost Budget Worksheet

Must be typewritten

1 Location Information

House No(s) 9	Street Name DEKALB AVENUE				
Borough BROOKLYN	Block 149	Lot 100	BIN 3396179	CB No. 302	
Work on Floor(s) Whole Building				Apt/Condos No(s)	N/A

2 Applicant Information

Last Name TULUCA	First Name ADRIAN		Middle Initial
Business Name VIDARIS, Inc.		Business Telephone	(212) 689-5389
Business Address 360 PARK AVENUE SOUTH, 15TH FLOOR		Business Fax	(212) 689-6449
City NEW YORK	State NY	Zip 10010	Mobile Telephone (203) 921-6592
Email atuluca@vidaris.com		License Number 019062-1	

3 Energy Modeling Information

Energy Modeling Protocol (check one): ☒Section 11 ECB ☐Appendix G PRM

Modeling Software & version: DOE2.1E Weather File: NEW YORK CITY, TMY3

Total Modeled Square Feet: 693,235 Conditioned Square Feet: 660,631

Proposed Unmet Load Hours: 96.4 Baseline Unmet Load Hours: 96.4

Proposed Site EUI (kBtu/sf): 95.3 Baseline Site EUI (kBtu/sf): 104.2

4 Purchased Energy Rates

Fuel	Utility Rate Provider/ Rate Structure (i.e ConEd)	Virtual Utility Rate ($/unit)	Baseline Design Total Charge ($)	Virtual Utility Rate ($/unit)	Proposed Design Total Charge ($)	Supporting Doc. Location	Model Output Report
Electric	ConEdison, SC-8	0.2440	1,907,838	0.2357	1,771,869	n/a	ES-D
Gas	ConEdison, SC-3	1.1337	511,340	1.1354	453,430	n/a	ES-D
Steam							
Other:							
TOTAL			2,419,178		2,225,299		ES-D

☐This project contains on-site generation.

5 Energy Modeling Usage Summary

	Baseline Model			Proposed Model			
	Electric Usage (kwh)	Gas/Steam Usage (MMBTU)	Other Usage (i.e. chilled water) (indicate units)	Electric Usage (kwh)	Gas/Steam Usage (MMBTU)	Other Usage (i.e. chilled water) (indicate units)	Model Output Location (Report)
Interior Lighting	1,706,931	0		1,361,527	0		BEPU
Misc. Equip.	1,031,542	18,093		1,031,542	18,093		BEPU
Space Heat	834,086	403,052		724,503	337,736		BEPU
Space Cool	1,566,349	0		1,227,595	0		BEPU
Heat Rejection	229,162	0		194,245	0		BEPU
Pumps & Misc	259,343	0		514,986	0		BEPU
Vent Fans	1,983,844	0		2,256,433	0		BEPU
Dom. Hot Water	58	29,862		1,310	43,540		BEPU
Exterior Lighting	13,719	0		9,132	0		BEPU
Exterior Misc.	195,268	0	(ELEVATOR)	195,268	0	(ELEVATOR)	BEPU
TOTAL	7,820,302	451,007		7,516,541	399,369		BEPU

6 Energy Inputs and Supporting Documentation Index

a Above-Grade Wall & Fenestration Areas

	Orientation	Baseline Case: Window + Wall Area (ft²)	Baseline Case: Vertical Glazing Area (ft²)	Baseline Case: Vertical Glazing Area (%)	Proposed Case: Window + Wall Area (ft²)	Proposed Case: Vertical Glazing Area (ft²)	Proposed Case: Vertical Glazing Area (%)	Supporting Doc. Location	Model Output Report
Above-Grade Wall & Vertical Glazing Area by Orientation	North	110,823	40,379	36.4	110,823	40,379	36.4	EN-series	LV-D
	East	86,304	31,140	36.1	86,304	31,140	36.1	EN-series	LV-D
	South	109,037	34,953	32.1	109,037	34,953	32.1	EN-series	LV-D
	West	70,288	25,369	36.1	70,288	25,369	36.1	EN-series	LV-D
	Total	376,453	131,840	35.0	376,453	131,840	35.0	EN-series	LV-D
Roof & Skylight Area	Roof + Skylight Area (ft²)	47,385	Skylight Area (ft²) 0	Skylight Area (%) 0	Roof + Skylight Area (ft²) 47,385	Skylight Area (ft²) 0	Skylight Area (%) 0	Supporting Doc. Location EN-Series	Model Output Report LV-D

b Vertical Fenestration

Model Input Parameter	Category (Res/Non-Res)	Item #	Baseline Case: Description (from ASHRAE)	Baseline Case: Ass'y U-factor	Baseline Case: SHGC	Baseline Case: VLT	Proposed Case: Description (from design)	Proposed Case: Ass'y U-factor	Proposed Case: SHGC	Proposed Case: VLT	Supporting Doc. Location	Model Output Report
Vertical Glazing	Res	1	Curtainwall	0.50	0.40	0.70	WT-01 Avg.	0.442	0.27	0.7	EN series	LV-H
Vertical Glazing	Non-Res	2	Curtainwall	0.50	0.40	0.70	WT-04 Avg.	0.389	0.54	0.7	EN series	LV-H
Vertical Glazing	Non-Res	3	Curtainwall	0.50	0.40	0.70	WT-05 Avg.	0.928	0.58	0.7	EN series	LV-H
Vertical Glazing	Non-Res	4	MF Entry Dr.	0.85	0.40	0.70	Gl. door avg	0.85	0.38	0.70	EN series	LV-H
Vertical Glazing	Non-Res	5	Exising/NIC	0.80	0.40	0.70	Exising/NIC	0.80	0.40	0.70	n/a	LV-H
Vertical Glazing		6										
Vertical Glazing		7										
Skylights		1										
Skylights		2										
Shading Devices			☒No shading projections, manual shading devices, or self-shading have been modeled. ☐Any shading by adjacent structures has been modeled identically to the proposed case.				List any permanent or auto-controlled shading devices: None.					

How were the Proposed case framed assembly fenestration U-factors determined? (Choose one)

☒NFRC testing for site-assembled fenestration
☐NFRC testing for manufactured fenestration assemblies
☐Table A8.2 (windows) and Table A8.1 (skylights)
☐LBNL Window 5 or Window 6 calculations
☐Energy simulation includes separate frame and glazing
☐Other (Describe)

c Envelope Assembly

☐Check if additional envelope descriptions are attached (Please use the EN-1c).

☑All proposed roofs, above-grade exterior walls, below-grade exterior walls, exposed floors, slab-on-grade floors, and opaque doors were modeled as-designed and with assembly U-factors/C-factors/F-factors consistent with ASHRAES 90.1 Appendix A values.

Model Input Parameter	Space-Conditioning Category (Res/Non-Res)	Item #	Baseline Case: Description	Baseline Case: Assembly U-factor/ C-factor/ F-factor	Proposed Case: Description	Proposed Case: Assembly U-factor/ C-factor/ F-factor	Supporting Doc Location	Model Output Report
Roof Construction	Res	1	Insulation entirely above deck	U-0.048	Terrace, wind floor, tower roof	U-0.047	EN series	LV-I
			Solar Reflectance	SR = 0.30	Solar Reflectance	SR = 0.30		
	Non-Res	2	Insulation entirely above deck	U-0.048	Bulkhead roof	U-0.047	EN series	LV-I
			Solar Reflectance	SR = 0.30	Solar Reflectance	SR = 0.30		
Above-Grade Exterior Wall Construction	Res	1	Mass Wall	U-0.090	WT-01 weighted average	0.0286	EN series	LV-I
	Res	2	Steel-framed Wall	U-0.064	WT-01 weighted average	0.0286	EN series	LV-I
	Non-Res	3	Mass Wall	U-0.104	WT-04-A, 04-B, 06 weighted average	0.0462	EN series	LV-I
	Non-Res	4	Steel-framed Wall	U-0.064	WT-04-A, 04-B, 06 weighted average	0.0462	EN series	LV-I
	Non-Res	5	Steel-framed Wall	U-0.064	WT-05, weighted average	0.4390	EN series	LV-I
	Non-Res	6	Steel-framed Wall	U-0.064	WT- 07	0.072	EN series	LV-I
	Non-Res	7	Existing Mass Wall	U-0.104	Existing Mass Wall	U-0.104	EN series	LV-I
	Non-Res	8						
Below-Grade Exterior Wall Construction	Non-Res	1	Below-grade wall; no insulation	C-1.14	Below-grade wall; no insulation	C-1.14	EN series	LV-I
		2						
Exposed Floor Construction	Res	1	Mass Floor	U-0.074	Exposed floors at wind break/terraces	U-0.043	EN series	LV-I
Slab-On-Grade Floors	Non-Res	1	Unheated	F-0.73	Unheated	F-0.73	EN series	LV-I
Opaque Doors	Non-Res	1	Swinging	U-0.70	Opaque Door	U-0.70	EN series	LV-1
	Non-Res	2	Non-Swinging	U-1.5	Roll-up Door	U-01.5	EN series	LV-1

d Interior Lighting Power

☐Check if additional lighting power forms are attached (Please use the EN-1d).

The lighting power is calculated using the (check one) ☑space by space method or ☐building area method.

Space Type (Table 9.6.1) or Building Area Type (Table 9.5.1)	Total Area Space/Bg Type (ft²)	Baseline Case: Auto Controls (Yes/No)	Baseline Case: Daylight Cntls (Yes/No)	Baseline Case: Modeled LPD (W/ft2)	Proposed Case: Auto Controls (Yes/No)	Proposed Case: Daylight Cntls (Yes/No)	Proposed Case: Modeled LPD (W/ft2)	Supporting Doc. Location	Model Output Report
Active Storage	16,297	Yes		0.63	Yes		0.228	E-099;EN dwgs	LV-B
Corridor/transition	49,807			0.66			0.305	E-099;EN dwgs	LV-B
Workshop	414			1.59			0.232	E-099;EN dwgs	LV-B
Locker Room	600	Yes		0.75	Yes		0.287	E-099EN series	LV-B
Electrical/Mechanical	56,248			0.95			0.296	E-099;EN dwgs	LV-B
Stairway	31,193			0.69			0.245	E-099;EN dwgs	LV-B
Lounge/Recreation	23,219	Yes		0.73	Yes		0.253	E-099;EN dwgs	LV-B
Office/Enclosed	901	Yes		1.11	Yes		0.315	E-099;EN dwg	LV-B
Shaft	9,430			-			-	E-099;EN dwgs	LV-B
Restrooms	1,908	Yes		0.98	Yes		0.263	E-099;EN dwgs	LV-B
Retail/Sales Area	75,917			1.68			1.68	E-099;EN dwgs	LV-B
Lobby	2,726			0.90			0.205	E-099;EN dwgs	LV-B
Lobby for Elevator	3,904			0.64			0.299	E-099;EN dwgs	LV-B
Gymnasium/Playing	3,484			1.20			0.202	E-099;EN dwgs	LV-B
Dwelling Unit	394,014			1.00			1.00	E-099;EN dwgs	LV-B
Parking Garage	23,174	Yes		0.19	Yes		0.269	E-099;EN dwgs	LV-B
Total	693,235			0.972			0.837		

e Exterior Lighting Power

	Baseline Design (Watts)	Proposed Design (Watts)	Supporting Doc. Location	Model Output Report
Tradable Lighting Power	1,952	1,410	EN 101 - 112	BEPU
Non-Tradable Lighting Power	864	864	EN 101 - 112	BEPU
15% Allowance	600 (site allowance			BEPU
Total Lighting Power	3,416	2,274	EN 101 - 112	BEPU

f Process/Receptacle Equipment

Space Type (or Equipment Type)	Space Area (or # Equip.)	Equipment Power Density (W/SF) or (Equip Demand)	Modeling Parameters/ Schedule	Baseline Modeled Identically? (Yes/No)	Supporting Doc. Location	Model Output Report
Workshop	414	3.00 W/sf	63 FLE hours/week	YES	N/A	LV-B
Electrical	5,667	3.00 W/sf	24 FLE hours/day	YES	N/A	LV-B
Mechanical	49,115	0.50 W/sf	63 FLE hours/week	YES	N/A	LV-B
Lounge/Recreation	23,219	0.50 W/sf	63 FLE hours/week	YES	N/A	LV-B
Office/Enclosed	901	1.50 W/sf	63 FLE hours/week	YES	N/A	LV-B
Retail Sales Area	75,917	0.25 W/sf	90 FLE hours/week	YES	N/A	LV-B
Lobby	2,726	0.20 W/sf	24 FLE hours/day	YES	N/A	LV-B
Gymnasium/Playing	3,484	0.50 W/sf	63 FLE hours/week	YES	N/A	LV-B
Dwelling Unit	394,014	0.75 W/sf	40 FLE/week	YES	N/A	LV-B
Elevators		535 kW				
TOTAL	555,457	907,538 kW				

g Service Hot Water Systems

Model Input Parameter	Service Hot Water Heaters: Baseline Design	Units	Proposed Design	Units	Supporting Doc. Location	Model Output Report
System Type & Fuel	Combined heating hot water/DHW boiler		Combined heating hot water/DHW boiler		M-500 series	PS-H/ PS-C
Input Rating	(see hot water boiler)		(see hot water boiler)			
Efficiency	82% Et (HHW boiler)		88%Et (HHW boiler)			
Storage Volume	n/a	Gal	n/a	Gal		
Storage Temperature	140	°F	140	°F		
Peak HW Demand	35	GPM	35	GPM		
Number of Primary DHW pumps	16	#	16	#		
Primary DHW Pump Power	5.3	KW	5.3	KW		
Primary DHW Pump Control	Constant volume		Constant volume			

h HVAC Narrative. Please provide a brief narrative of the building's HVAC systems.

Retail/commercial/back-of-house spaces cooled by water-cooled DX units. Condenser water is supplied to the residential heat pumps and retail/common area DX units by a 2-cell open cooling tower maintaining an 85 degree leaving water temperature. Heating and cooling to apartments provided by water-loop heat pumps. (6) 5670 MBH gas-fired boilers provides heat and domestic hot water to all spaces. Outside air is provided to residential and retail spaces by dedicated make-up air units.

i Air-Side HVAC

Each individual system may be entered separately, or multiple systems may be grouped together if all input parameters identified with an (*) are similar.

☐Check if additional Air-Side HVAC forms are attached (Please use the EN-1i).

Model Input Parameter	HVAC System / Group (BASELINE DESIGN): Description	Units	HVAC System / Group (PROPOSED DESIGN): Description	Units	Supporting Doc. Location	Model Output Report
Air-Side HVAC Systems						
System Description	Baseline System Description & System #: (see attached sheets)					
System Designation(s)						
# of Similar Systems						
Total Cooling Capacity						
*Table 6.8.1 Unitary Cooling Capacity Range						
*Unitary Cooling Eff. (EER or SEER)						
*Unitary Cooling Part-load Eff. (if applicable)						
Total Heating Capacity						
*Table 6.8.1 Unitary Heating Capacity Range						
*Unitary Heating Efficiency						
*Fan Control						
Supply Airflow		cfm		cfm		
Outdoor Airflow		cfm		cfm		
*Demand Control Ventilation						
*Economizer High-Limit Shutoff (°F)						
Exhaust Air Energy Recovery Systems						
*Exhaust Air Energy Recovery Effectiveness						
Supply Fan Power		kW		kW		
Return/Relief Fan Power		kW		kW		
Exhaust Fan Power		kW		kW		
System Fan Power		kW		kW		
Allowed Fan Power:		kW		kW		
Other (describe)						
Other (describe)						
Other (describe)						
Other (describe)						

j Water-Side HVAC – Chilled Water

☐Check if additional Chiller HVAC forms are attached (Please use the EN-1j).

Model Input Parameter	HVAC System / Group (BASELINE DESIGN): Description	Units	HVAC System / Group (PROPOSED DESIGN): Description	Units	Supporting Doc. Location	Model Output Report
Chilled Water						
# and Type of Chillers *(and capacity of chiller if more than 1 type or size)*	(2) Water-Cooled Centrifugal Chillers		n/a			PS-C/ PS-H
Total Chiller Capacity	737	tons				
Chiller Efficiency - Full Load	0.576 kW/ton					
Chiller Efficiency - Part Load	0.549 kW/ton IPLV					
Chilled Water (CHW) Supply Temp	44	°F		°F		
CHW ΔT	12	°F		°F		
CHW Supply Temp Reset Parameters	per 6.5.4.3					
CHW Loop Configuration	Primary					
Number of Primary CHW Pumps	1	#		#		
Primary CHW Pump Power	22 W/gpm					
Primary CHW Pump Flow	1472	gpm		gpm		
Primary CHW Pump Control	Variable Speed					
Number of Secondary CHW Pumps		#		#		
Secondary CHW Pump Power						
Secondary CHW Pump Flow		gpm		gpm		
Secondary CHW Pump Control						
Water-Side Economizer						
Water-Side Energy Recovery						
Other (describe)						
Other (describe)						
Other (describe)						
Other (describe)						

BUILDING DEPARTMENT NOTES

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PROFESSIONAL'S STATEMENT

TO THE BEST OF OUR KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH 2014 NYC EC VIA APPLICATION OF ASHRAE 90.1-2010 AS MODIFIED BY APPENDIX A.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

sh p

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS, BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
30 FIRE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.667.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
225 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9678

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
39 WEST 27TH ST., FLOOR 10A
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 BROADWAY, SUITE 1616
NEW YORK, NY 10006
tel 212.759.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
590 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

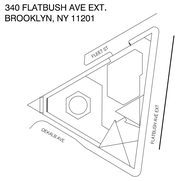
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lolitron TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
200 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.455.4785

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

7.15.2016 DOB FILING SET

DATE ISSUE | NO. | DATE | REVISION

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DRAWING TITLE

NYC EC COMPLIANCE - EN-1 COMPLIANCE SHEET PART 1

SEAL & SIGNATURE

DATE	07.15.2016
PROJECT NO.	15466
DRAWN BY	BB
CHECKED BY	JD
DOB NO.	320914336
DRAWING NUMBER	EN.006.00

14 JULY 2016

DEPT OF BUILDINGS 320914338 Job Number

E1001858489 Scan Code

EN1 Page 9 of 12

k | Water-Side HVAC – Cooling Tower & Condenser Water

☒Check if additional Cooling Tower & Condenser Water forms are attached (Please use the EN-1k).

Model Input Parameter	HVAC System / Group (BASELINE DESIGN)		HVAC System / Group (PROPOSED DESIGN)		Supporting Doc. Location	Model Output Report
	Description	Units	Description	Units		
Cooling Tower & Condenser Water						
Number of Cooling Towers / Fluid Coolers	2 (serving heat pumps)		2		M-500 series	SS-P/ PS-H*
Cooling Tower Fan Power	14.0	gpm/hp	125	hp/cell	M-500s	PS-H
Cooling Tower Fan Control	Two-speed		Variable Speed		M-500s	PS-H
Condenser Water (CW) Leaving Temp	85	°F	85	°F	M-500s	PS-H
CW ΔT	10	°F	15	°F	M-500s	PS-H
CW Loop Temp Reset Parameters	None; throttling range +/- 5	F	85, +/- 5	F		
Number of CW Pumps	1	#	3 primary / 3 secondary	#	M-500s	PS-C
CW Pump Power	51.9 W/gpm		51.9 W/gpm		M-500s	PS-C
CW Pump Flow	2260	gpm	3790 primary/ 3790 sec*	gpm	M-500s	PS-C
CW Pump Control	Variable Speed		Variable Speed		M-500s	PS-C
Other (describe)			*model shows lower gpm due to			
Other (describe)	CW heat recovery to DHW, preheats		installed capacity of heat pumps.			
Other (describe)	DWH temp to 85 during peak		**plant broken into two parts in			
Other (describe)			model. See SS-P, PS-H, PS-C.			

12/14

EN1 Page 9 of 12

k | Water-Side HVAC – Cooling Tower & Condenser Water

☒Check if additional Cooling Tower & Condenser Water forms are attached (Please use the EN-1k).

Model Input Parameter	HVAC System / Group (BASELINE DESIGN)		HVAC System / Group (PROPOSED DESIGN)		Supporting Doc. Location	Model Output Report
	Description	Units	Description	Units		
Cooling Tower & Condenser Water						
Number of Cooling Towers / Fluid Coolers	2 (serving chiller)					PS-H
Cooling Tower Fan Power	38.2	gpm/hp				PS-H
Cooling Tower Fan Control	Two-speed					PS-H
Condenser Water (CW) Leaving Temp	83	°F		°F		PS-H
CW ΔT	10	°F		°F		PS-H
CW Loop Temp Reset Parameters	85, fixed	F		F		
Number of CW Pumps	1	#		#		PS-C
CW Pump Power	19 W/gpm					PS-C
CW Pump Flow	2084	gpm		gpm		PS-C
CW Pump Control	Variable Speed					PS-C
Other (describe)						
Other (describe)	CW heat recovery to DHW, preheats					
Other (describe)	DWH temp to 85 during peak					
Other (describe)						

12/14

EN1 Page 10 of 12

l | Water-Side HVAC – Hot Water/Steam

☐Check if additional Hot Water/Steam forms are attached (Please use the EN-1l).

Model Input Parameter	HVAC System / Group (BASELINE DESIGN)		HVAC System / Group (PROPOSED DESIGN)		Supporting Doc. Location	Model Output Report
	Description	Units	Description	Units		
Hot Water/Steam						
Number and Type of Boilers	2 Gas-fired hot water boilers		6 Gas-fired HW boilers (1 stby)		M-500s	PS-H
Total Boiler Capacity	25,544	MBH	34,020	MBH	M-500s	PS-H
Boiler Efficiency	82% Et		88% Et (non-condensing mode)		M-500s	PS-H
Hot Water or Steam (HHW) Supply Temp	180	°F	180	°F	M-500s	PS-H
HHW ΔT	50	°F	30	°F	M-500s	PS-H
HHW Temp Reset Parameters						
HHW Loop Configuration	Primary only		Primary/secondary		M-500s	PS-H
Number of Primary HHW Pumps	1	#	4	#	M-500s	PS-C
Primary HHW Pump Power	72.5 W/gpm		29.6 kW		M-500s	PS-H
Primary HHW Pump Flow	1020	gpm	1730	gpm	M-500s	PS-H
Primary HHW Pump Control	Variable Speed		Variable Speed		M-500s	PS-H
Number of Secondary HHW Pumps	1	#	2	#	M-500s	PS-H
Secondary HHW Pump Power			95.9 kW		M-500s	PS-H
Secondary HHW Pump Flow		gpm	1152	gpm	M-500s	PS-H
Secondary HHW Pump Control			Variable Speed		M-500s	PS-H
Other (describe)						
Other (describe)						
Other (describe)						
Other (describe)						

12/14

EN1 Page 11 of 12

m | Geothermal System

Model Input Parameter	HVAC System / Group (BASELINE DESIGN)	HVAC System / Group (PROPOSED DESIGN)		Supporting Doc. Location	Model Output Report
	Description	Description	Units		
Geothermal Systems					
Type of Geothermal system	N/A				
Soil Conductivity (if applicable)	N/A				
Geothermal source design temperature - summer	N/A		°F		
Geothermal source design temperature - winter	N/A		°F		
Geoexchange loop design fluid supply temperature - cooling	N/A		°F		
Geoexchange loop design fluid supply temperature -heating	N/A		°F		
Geoexchange loop - operating temperature	N/A				
Geothermal energy transfer effect	N/A				
Geothermal Loop Pumping Configuration	N/A				
Number of Geothermal Loop Pumps	N/A		#		
Geothermal Loop Pump Control	N/A				
Geothermal Pump Power	N/A		W/gpm		
Geothermal Loop Flow	N/A		gpm		
Geothermal Air-side Efficiency curves	N/A				
Other (describe)					
Other (describe)					
Other (describe)					
Other (describe)					

12/14

EN1 Page 12 of 12

n | Combined Heat & Power Systems

Model Input Parameters	HVAC System / Group (BASELINE DESIGN)	HVAC System / Group (PROPOSED DESIGN)		Supporting Doc. Location	Model Output Report
	Description	Description	Units		
Combined Heat & Power Systems					
CHP: Type of generator	N/A				
Quantity of CHP generators	N/A				
Total capacity of CHP generators (kW) at design conditions	N/A		kW		
CHP: Thermal efficiency (%) at design conditions	N/A		%		
CHP: Electrical efficiency (%) at design conditions	N/A		%		
CHP: Controls / Schedule	N/A				
CHP: Fuel Source	N/A				
CHP: Where is the recovered heat used? (e.g. gas absorption chillers, hot water distribution loop, etc.)	N/A				
CHP: Backup heat source when waste heat from CHP is unavailable? (e.g. fossil fuel boilers)	N/A				
CHP: Parasitic losses (e.g. air handling unit to cool the intake air)	N/A				
Other (describe)					
Other (describe)					
Other (describe)					

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Name (please print) ADRIAN

Signature

REGISTERED ARCHITECT ADRIAN LEVY 029961 STATE OF NEW YORK

Date 9/9/2016

P.E. / R.A. Seal (apply seal, then sign and date over seal)

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
30 FIRE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 56TH STREET
NEW YORK, NY 10017
tel 212.887.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9678

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMJ ENGINEER
ENTEK ENGINNERING
104 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
590 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 13TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

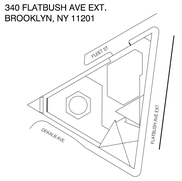
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Leisure TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
330 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4700

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

7.15.2016 DOB FILING SET

DATE ISSUE | NO. DATE REVISION

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DRAWING TITLE

NYC EC COMPLIANCE - EN-1 COMPLIANCE SHEET PART 2

SEAL & SIGNATURE

STATE OF NEW YORK ADRIAN LEVY 029961 REGISTERED ARCHITECT

DATE	07-15-2016
PROJECT NO.	15466
DRAWN BY	BB
CHECKED BY	JD
DOB NO.	320914338
DRAWING NUMBER	EN.007.00

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DEPT OF BUILDINGS 320934338 Job Number
B1800631374 Scan Code

EN-1: Baseline Air-Side HVAC System Schedule

Model Input Parameter	Helpful Notes	HVAC System / Group																																Totals
		Description	Units	Output Report	Description	Units	Output Report	Description	Units	Output Report	Description	Units	Output Report	Description	Units	Output Report	Description	Units	Output Report	Description	Units	Output Report	Description	Units	Output Report	Description	Units	Output Report	Description	Units	Output Report	Description	Units	Output Report	
*System Type		System 2 - VAV w/reheat		SV-A	System 2 - VAV w/reheat		SV-A	System 2 - VAV w/reheat		SV-A	System 6 - WSHP		SV-A	System 2 - VAV w/reheat		SV-A	System 7 - FPFC		SV-A	System 2 - VAV w/reheat		SV-A	System 10- PTAC		SV-A	System 7 - FPFC		SV-A	System 4- Packaged VAV w/ reheat		SV-A	Unit Ventilator		SV-A	
System Designation(s)	Consistent with designations used in model	CORR-SYS			APT-MUA-SYS			RETAIL-MUA-SYS			RES-SYS			LOBBY-SYS			POOL-SYS			AMENITY-SYS			MER-SYS			CRAC-SYS			TENANT-SYS			GARAGE-SYS			
Number of Similar Systems		1			1			Aggregate of 2 systems of varying size			Aggregate of 784 systems of varying size			1			1			1			Aggregate of 22 systems			Aggregate of 3 systems			Aggregate of 10 systems			1			
Total Cooling Capacity	Auto-sized proportional to design system.	665	kBtu/h		2,869	kBtu/h		1,624	kBtu/h		18,082	kBtu/h		338	kBtu/h		382	kBtu/h		312	kBtu/h		1,761	kBtu/h		369	kBtu/h		7,194	kBtu/h		0	kBtu/h		33,596
*Table 6.8.1 Unitary Cooling Capacity Range	•Systems 1 & 2: Table 6.8.1D •Systems 3, 5, & 6: Table 6.8.1A •System 4: Table 6.8.1B •Systems 7-10: N/A	n/a			n/a			n/a			17,000-65,000 Btu/h			n/a			n/a			n/a			n/a			n/a			240,000-760,000 Btu/h			n/a			
*Unitary Cooling Efficiency (EER or SEER)	Units should be consistent with the ASHRAE 90.1 minimum efficiency rating requirements for this system type		EER			EER					12	EER																	12.2	EER		n/a			
*Unitary Cooling Part-load Efficiency (if applicable)	Enter N/A if not applicable																												12.4	IEER					
Total Heating Capacity	Auto-sized proportional to design system.	663	kBtu/h		2,294	kBtu/h		1,283	kBtu/h		21,727	kBtu/h		261	kBtu/h		751	kBtu/h		272	kBtu/h		2,103	kBtu/h		215	kBtu/h		4,557	kBtu/h		0	kBtu/h		34,126
*Table 6.8.1 Unitary Heating Capacity Range	•System 2: Table 6.8.1D •Systems 3 & 5: Table 6.8.1E •System 4: Table 6.8.1B •Systems 1, 5-8, 10: N/A										<135,000 Btu/h																							
*Unitary Heating Efficiency	List all relevant efficiencies (e.g. 3.2 COP at 47°F db/43°F wb, 2.0 COP at 17°F db/15°F wb outdoor air)										4.2	COP																						
*Fan Control	•Systems 1-4, 9 & 10: Constant Volume •Systems 5-8: Variable Volume	Variable Speed			Variable Speed			Variable Speed			Cycling			Variable Speed			Constant Volume			Variable Speed			Constant Volume			Constant Volume			Variable Speed			Constant Volume			
Supply Airflow	•Systems 1-8: Auto-sized based on 20°F ΔT •Systems 9-10: Auto-sized based on 105°F SAT	15,711	cfm		59,000	cfm		33,000	cfm		534,177	cfm		7,884	cfm		8,932	cfm		7,326	cfm		56,111	cfm		10,344	cfm		123,844	cfm		14,000	cfm		856,329
Outdoor Airflow	•If DCV modeled in Proposed only: ASHRAE 62.1 minimum ventilation rates •All other cases: identical to Proposed	15,502	cfm		59,000	cfm		33,000	cfm		0	cfm		7,000	cfm		7,002	cfm		7,003	cfm		0	cfm		0	cfm		65,265	cfm		14,000	cfm		207,772
*Demand Control Ventilation	If required by Section 6.4.3.9 (spaces >500 sf with >40 people/1,000 sf with either an air-side economizer, automatic OA damper, or OA >3000 cfm). Exceptions: Energy Recovery, OA<1200cfm																																	
*Economizer High-Limit Shutoff (°F)	•Air or Water Economizer Required if included in Design system • Shutoff per 11.3.2.D	Differential Enthalpy			Differential Enthalpy			Differential Enthalpy			Not Required			Differential Enthalpy			Differential Enthalpy			Differential Enthalpy			Not Required			Differential Enthalpy			Differential Enthalpy			Not Required			
Exhaust Air Energy Recovery Systems	•Exhaust air energy recovery required per Table 6.5.6.1 (unless exceptions apply) •50% energy recovery effectiveness	No			No			No			No			No			No			No			No			No			No			No			
*Exhaust Air Energy Recovery Effectiveness or 6.5.6.1 Exception Claimed		N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			
Supply Fan Power	•Sum of fan power for all supply, return, relief, and exhaust fans cannot exceed system fan power allowance calculated using supply cfm •Report exhaust fans not interlocked with HVAC operation (such as parking garage ventilation fans, or unconditioned electrical room exhaust fans), and exhaust fans not required in the calculations (such as fume hoods applying Exception 6.5.3.1.1, or kitchen hoods operating independently of the building HVAC system) in Equipment section.	12.9	kW		54.5	kW		37.1	kW		0.0	kW		7.1	kW		8.0	kW		6.6	kW		6.9	kW		2.4	kW		124.9	kW		2.3	kW		
Return/Relief Fan Power			kW			kW			kW			kW			kW			kW			kW			kW			kW			kW			kW		
Exhaust Fan Power			kW		13.6	kW			kW			kW			kW			kW			kW			kW			kW			kW			kW		
System Fan Power		12.9	kW		68.1	kW		37.1	kW		0.0	kW		7.1	kW		8.0	kW		6.6	kW		6.9	kW		2.4	kW		124.9	kW		2.3	kW		276.1
Allowable System Fan Power	Minimum of: • allowable fan power calculated per 6.5.3.1.1 • bhp/cfm of design system per section 11.3.2.H	12.9	kW		68.2	kW		37.1	kW		note: fan power included in EER/COP per Table 11.3.2A footnote i	kW		7.1	kW		8.0	kW		6.6	kW		6.9	kW		2.4	kW		124.9	kW		2.3	kW		
Section 11.3.2.H Fan Power:	Based on bhp/cfm of parallel design system.	12.9	kW		68.2	kW		37.1	kW		0.0	kW		7.1	kW		8.0	kW		6.6	kW		6.9	kW		2.4	kW		124.9	kW		4.5	kW		
Pressure Drop Adjustments: *(Systems 3 through 8)*	•For each pressure adjustment allowed, enter the design airflow cfm through each device (CFM_D)	cfm	in. w.c.		cfm	in. w.c.			in. w.c.			in. w.c.			in. w.c.			in. w.c.			in. w.c.			in. w.c.			in. w.c.			in. w.c.			in. w.c.		
CHAPTER 11 FAN POWER ALLOWANCE		0.00102	BHP/CFM		0.00148	BHP/CFM		0.00142	BHP/CFM		0.00000	BHP/CFM		0.00110	BHP/CFM		0.00110	BHP/CFM		0.00110	BHP/CFM		0.00015	BHP/CFM		0.00027	BHP/CFM		0.00000	BHP/CFM		0.00000	BHP/CFM		
			HP																															
			EFF																															
***See Instructions above**		0			0			0			#DIV/0!			0			0			0			0			0			0			0			

Table 1.4 - Air-Side HVAC System Schedule

BUILDING DEPARTMENT NOTES

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PROFESSIONAL'S STATEMENT

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
61 FIFTH AVENUE, 15TH FLOOR
NEW YORK, NY 10003
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 56TH STREET
NEW YORK, NY 10017
tel 212.697.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
225 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9678

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE, SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
104 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 FIFTH AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.686.5389

BUROHAPPOLD ENGINEERING

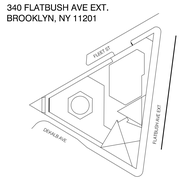
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2325

LANDTECH TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4090

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

7.15.2016 DOB FILING SET

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DRAWING TITLE

NYC EC COMPLIANCE - EN-1 COMPLIANCE SHEET PART 3

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DATE	07.15.2016
PROJECT NO.	15466
DRAWN BY	BB
CHECKED BY	JD
DOB NO.	320934338
DRAWING NUMBER	EN.008.00

14 JULY 2016

DEPT OF BUILDINGS 320914338 Job Number

E-5262635085 Scan Code

EN-1i: - Proposed Air-Side HVAC System Schedule

Model Input Parameter	Helpful Notes	HVAC System / Group			HVAC System / Group			HVAC System / Group			HVAC System / Group			HVAC System / Group			HVAC System / Group			HVAC System / Group			HVAC System / Group			HVAC System / Group			HVAC System / Group				Totals
		Description	Units	Support Doc	Description	Units	Support Doc	Description	Units	Support Doc	Description	Units	Support Doc	Description	Units	Support Doc	Description	Units	Support Doc	Description	Units	Support Doc	Description	Units	Support Doc	Description	Units	Support Doc	Description	Units	Support Doc	Output Report	
*System Type		Water-cooled DX		M-500	Make-up Air Unit		M-500	Make-up Air Unit		M-500	Water-loop Heat Pump		M-500	Water-cooled DX		M-500	Water-cooled DX		M-500	Water-cooled DX		M-500	Hot-water Unit Heaters		M-501	Water-cooled DX		M-500	Tenant PVAV		M-501	Unit Ventilator		M-100	SV-A	
System Designation(s)		CORR-SYS			APT-MUA-SYS			RETAIL-MUA-SYS			RES-SYS			LOBBY-SYS			POOL-SYS			AMENITY-SYS			MER-SYS			CRAC-SYS			TENANT-SYS			GARAGE-SYS				
Number of Similar Systems	All inputs should be consistent with the Proposed energy model and the mechanical drawings and equipment schedules.	1			1			Aggregate of 2 systems of varying size			Aggregate of 784 systems of varying size			1			1			1			Aggregate of 22 systems			Aggregate of 3 systems			Aggregate of 10 systems			1				
Total Cooling Capacity		1,088	kBtu/h		4,319	kBtu/h		2,409	kBtu/h		15,718	kBtu/h		511	kBtu/h		511	kBtu/h		511	kBtu/h		1,476	kBtu/h		319	kBtu/h		6,844	kBtu/h		0	kBtu/h		SV-A	33,706
*Unitary Cooling Efficiency	Units should be consistent with the ASHRAE 90.1 minimum efficiency rating requirements for this system type	15	EER		16.6	EER		13.3	EER		13.6	EER		13.4	EER		13.4	EER		13.4	EER		n/a	EER		9.8	EER		13.1	EER		n/a			SV-A	
*Unitary Cooling Part-load Efficiency	Indicate the part-load efficiency. Also describe the method for modeling part-load curves if the energy simulation does not have default curves for this																																	NA	
Total Heating Capacity	All inputs should be consistent with the Proposed energy model and mechanical drawings and equipment schedules.	825	kBtu/h		2,549	kBtu/h		1,426	kBtu/h		18,400	kBtu/h		302	kBtu/h		302	kBtu/h		302	kBtu/h		2,062	kBtu/h		218	kBtu/h		5,261	kBtu/h		0	kBtu/h		SV-A	31,647
*Unitary Heating Efficiency	List all relevant efficiencies (e.g. 3.2 COP at 47°F db/43°F wb, 2.0 COP at 17°F db/15°F wb outdoor air)										4.6	COP																	80%	ηEt				SV-A	
*Fan Control	e.g. Variable Speed Fans, 3-speed ECM fans with automated controls, constant speed, etc.	Variable Speed			Variable Speed			Variable Speed			Cycling			Variable Speed			Variable Speed			Variable Speed			Constant Volume			Variable Speed			Variable Speed			Constant Volume			SV-A	
Supply Airflow	Inputs should be consistent with mechanical drawings and equipment schedules.	15,551	cfm		59,000	cfm		33,000	cfm		518,028	cfm		7,001	cfm		6,998	cfm		6,999	cfm		7,000	cfm		10,437	cfm		130,435	cfm		14,000	cfm		SV-A	794,449
Outdoor Airflow	Actual minimum outdoor airflow rates consistent with Mechanical Schedule	15,551	cfm		59,000	cfm		33,000	cfm		0	cfm		6,998	cfm		6,999	cfm		7,000	cfm		0	cfm		0	cfm		65,217	cfm		14,000	cfm		SV-A	207,765
*Demand Control Ventilation	Briefly describe how demand control ventilation was modeled																																	NA	
*Economizer Control	Describe the type of economizer control and the high limit shutoff. Also indicate if the economizer controls are for less than 100% of the design supply air																												Differential Enthalpy					NA	
*Exhaust Air Energy Recovery	If the system includes energy recovery, describe the type of energy recovery and recovery effectiveness (example: enthalpy wheel - 75% effective). Otherwise, enter "N/A".				Yes, 62% effective																													NA	
Supply Fan Power	•Report exhaust fans not interlocked with HVAC operation (such as parking garage ventilation fans, or unconditioned electrical room exhaust fans), and exhaust fans not required in the calculations (such as fume hoods applying Exception 6.5.3.1.1, or kitchen hoods operating independently of the building HVAC system) in Tab 4	13.0	kW		69.9	kW		37.7	kW		note: fan power included in EER/COP per Table 11.3.2A footnote i	kW		6.3	kW		6.3	kW		6.3	kW		6.4	kW		2.2	kW		131.7	kW		4.5	kW		SV-A	
Return/Relief Fan Power			kW			kW			kW			kW			kW			kW			kW			kW			kW			kW			kW		SV-A	
Exhaust Fan Power			kW		8.0	kW			kW			kW			kW			kW			kW			kW			kW			kW			kW		SV-A	
System Fan Power		13.0	kW		77.9	kW		37.7	kW		0.0	kW		6.3	kW		6.3	kW		6.3	kW		6.4	kW		2.2	kW		131.7	kW		4.5	kW		SV-A	287.65
Other (Describe)																																			
Other (Describe)																																			
Other (Describe)																																			

See Instructions above

Table 1.4 - Air-Side HVAC System Schedule

BUILDING DEPARTMENT NOTES

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

sh p

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
61 FIFTH AVE, 11TH FLOOR
NEW YORK, NY 10003
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 56TH STREET
NEW YORK, NY 10017
tel 212.887.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
225 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9678

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE, SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS SINCE 1975

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.739.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.886.5389

BUROHAPPOLD ENGINEERING

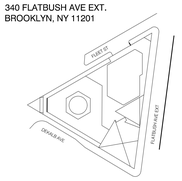
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2020

TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
320 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4090

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



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DATE	07.15.2016
PROJECT NO.	15466
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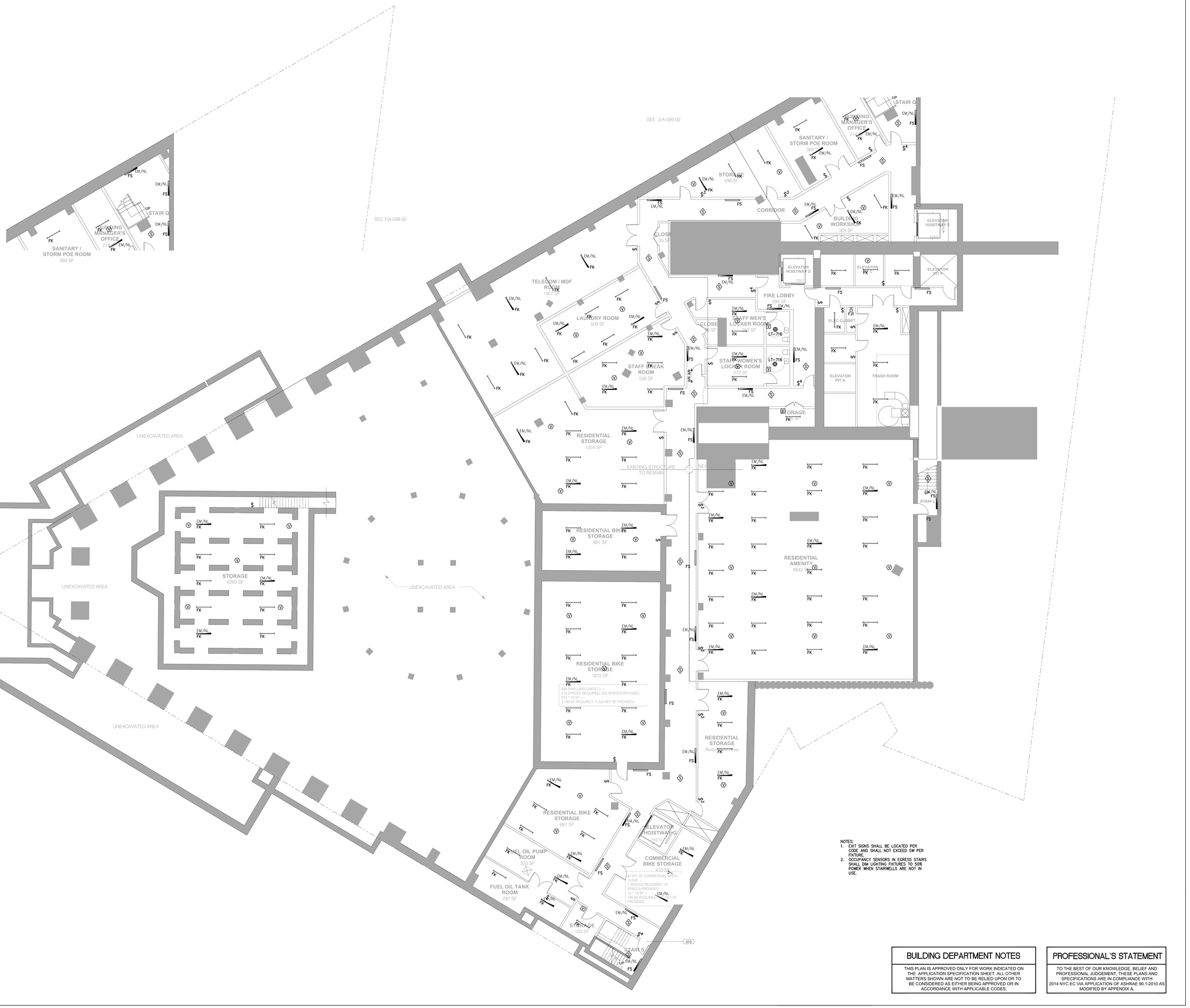
CHECKED BY	JD
DOB NO.	320914338
DRAWING NUMBER	EN.009.00

14 JULY 2016

DEPT OF BUILDINGS 320914338 Job Number

E320956399YB Scan Code



NOTES:
1. EXIT SIGNS SHALL BE LOCATED PER CODE AND SHALL NOT EXCEED 5W PER FIXTURE.
2. OCCUPANCY SENSORS IN EGRESS STAIRS SHALL DIM LIGHTING FIXTURES TO 50% POWER WHEN STAIRWELLS ARE NOT IN USE.

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
30 FIRE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.697.9668

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9678

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

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LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
186 AMES STREET
HADDONFIELD, NJ 07901
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7500

VIDARIS

BUILDING ENERGY
VIDARIS
300 PARK AVENUE SOUTH, 12TH FLOOR
NEW YORK, NY 10010
tel 212.686.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2525

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POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4090

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340 FLATBUSH AVE EXT.
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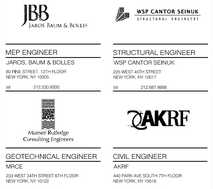

SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
7-15-2016	DOB FILING SET			

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DRAWING TITLE

NYC EC COMPLIANCE - SUBCELLAR PLAN

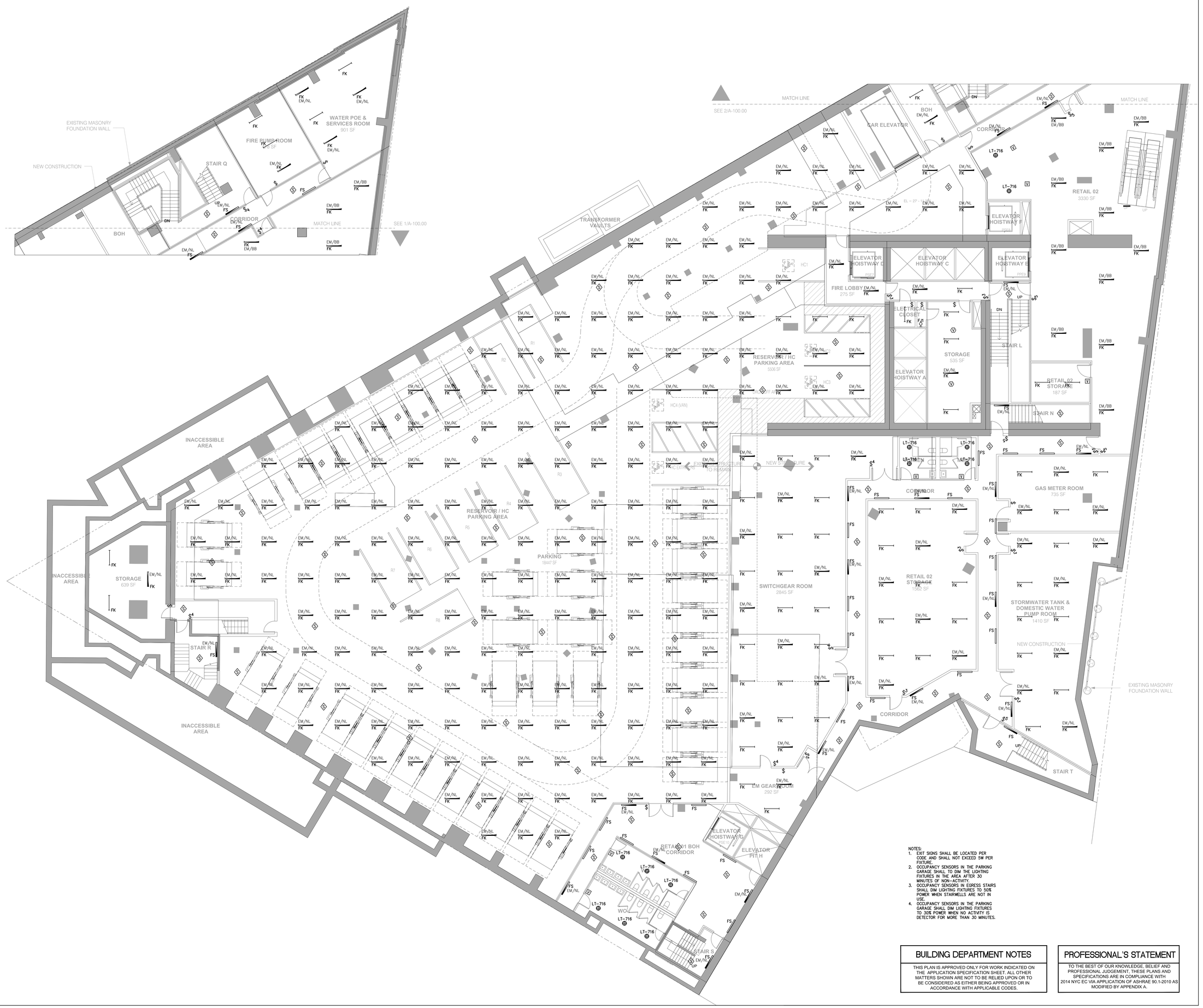
SEAL & SIGNATURE

DATE	07.15.2016
PROJECT NO.	15466
DRAWN BY	BB
CHECKED BY	JD
DOB NO.	320914338
DRAWING NUMBER	EN.099.00

14 JULY 2016

DEPT OF BUILDINGS 320914338 Job Number

B1B1B1B1MEP Sheet Code



NOTES:
1. EXIT SIGNS SHALL BE LOCATED PER CODE AND SHALL NOT EXCEED 5W PER FIXTURE.
2. OCCUPANCY SENSORS IN THE PARKING GARAGE SHALL TO DIM THE LIGHTING FIXTURES IN THE AREA AFTER 30 MINUTES OF NON-ACTIVITY.
3. OCCUPANCY SENSORS IN EGRESS STAIRS SHALL DIM LIGHTING FIXTURES TO 50% POWER WHEN STAIRWELLS ARE NOT IN USE.
4. OCCUPANCY SENSORS IN THE PARKING GARAGE SHALL DIM LIGHTING FIXTURES TO 30% POWER WHEN NO ACTIVITY IS DETECTOR FOR MORE THAN 30 MINUTES.

BUILDING DEPARTMENT NOTES

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

PROFESSIONAL'S STATEMENT

TO THE BEST OF OUR KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH 2014 NYC EC VIA APPLICATION OF ASHRAE 90.1-2010 AS MODIFIED BY APPENDIX A.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
30 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.697.9868

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9626

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST, FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
100 PARK AVENUE SOUTH 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BURO HAPPOLD ENGINEERING

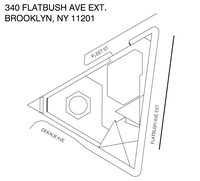
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.0025

Lotrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4090

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



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DATE ISSUE NO. DATE REVISION

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DRAWING TITLE

NYC EC COMPLIANCE - CELLAR PLAN

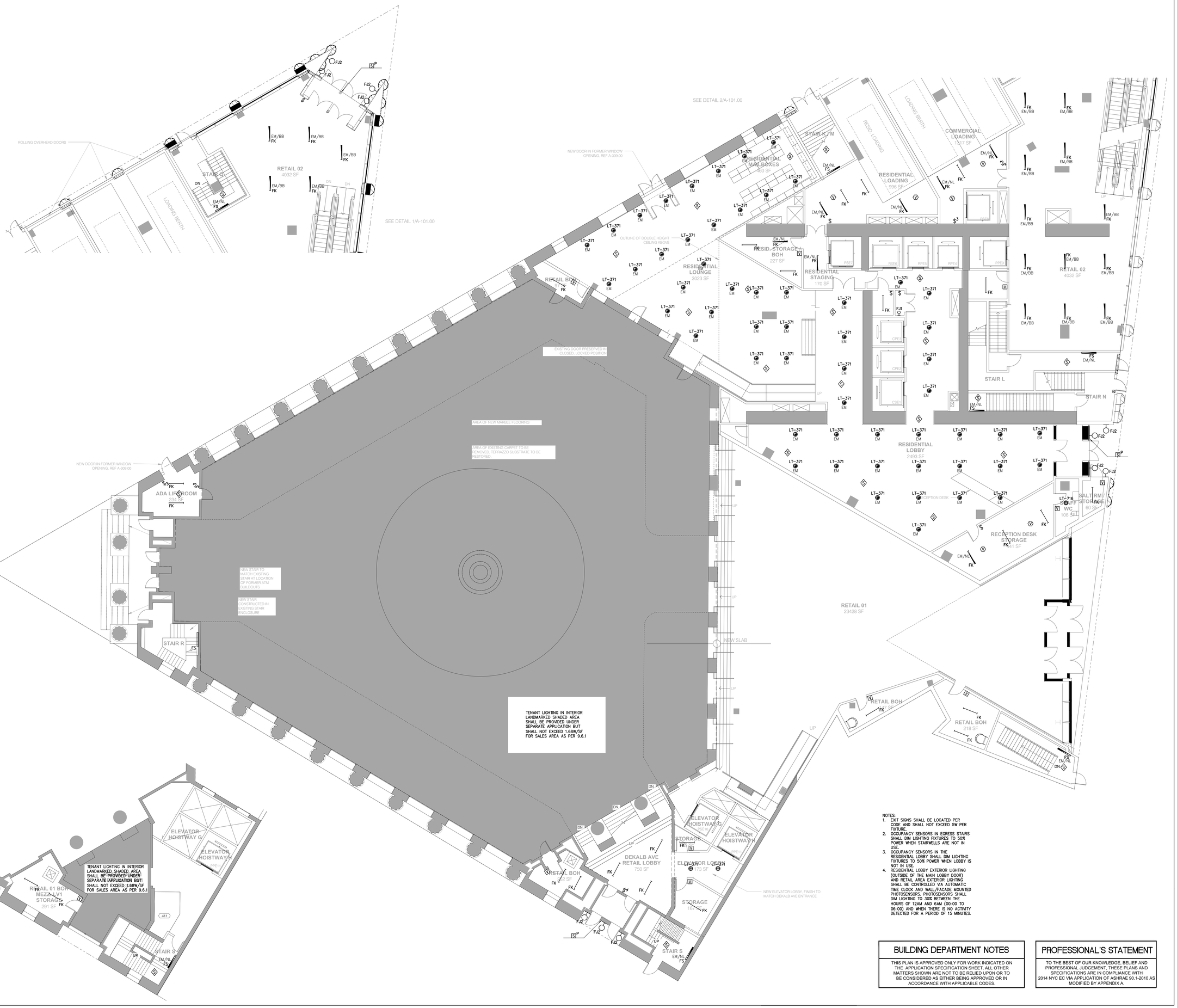
SEAL & SIGNATURE

DATE	07.15.2016
PROJECT NO.	15466
DRAWN BY	BB
CHECKED BY	JD
DOB NO.	320914338
DRAWING NUMBER	EN.100.00

14 JULY 2016

DEPT OF BUILDINGS 320914338 Job Number

E1534124295 Scan Code



NOTES:

1. EXIT SIGNS SHALL BE LOCATED PER CODE AND SHALL NOT EXCEED 5W PER FIXTURE.
2. OCCUPANCY SENSORS IN EGRESS STAIRS SHALL DIM LIGHTING FIXTURES TO 50% POWER WHEN STAIRWELLS ARE NOT IN USE.
3. OCCUPANCY SENSORS IN THE RESIDENTIAL LOBBY SHALL DIM LIGHTING FIXTURES TO 50% POWER WHEN LOBBY IS NOT IN USE.
4. RESIDENTIAL LOBBY EXTERIOR LIGHTING (OUTSIDE OF THE MAIN LOBBY DOOR) AND RETAIL AREA EXTERIOR LIGHTING SHALL BE CONTROLLED VIA AUTOMATIC TIME CLOCK AND WALL/FACADE MOUNTED PHOTOSENSORS. PHOTOSENSORS SHALL DIM LIGHTING TO 30% BETWEEN THE HOURS OF 12AM AND 6AM (00:00 TO 06:00) AND WHEN THERE IS NO ACTIVITY DETECTED FOR A PERIOD OF 15 MINUTES.

BUILDING DEPARTMENT NOTES

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JAROS, BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
30 PINE STREET, 17TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.697.9668

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9678

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS SINCE 1974

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
106 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2800

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
300 PARK AVENUE SOUTH, 10TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BURO HAPPOLD ENGINEERING

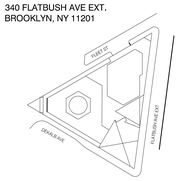
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lefroy TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4090

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



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DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

NYC EC COMPLIANCE - LEVEL 1 PLAN

SEAL & SIGNATURE

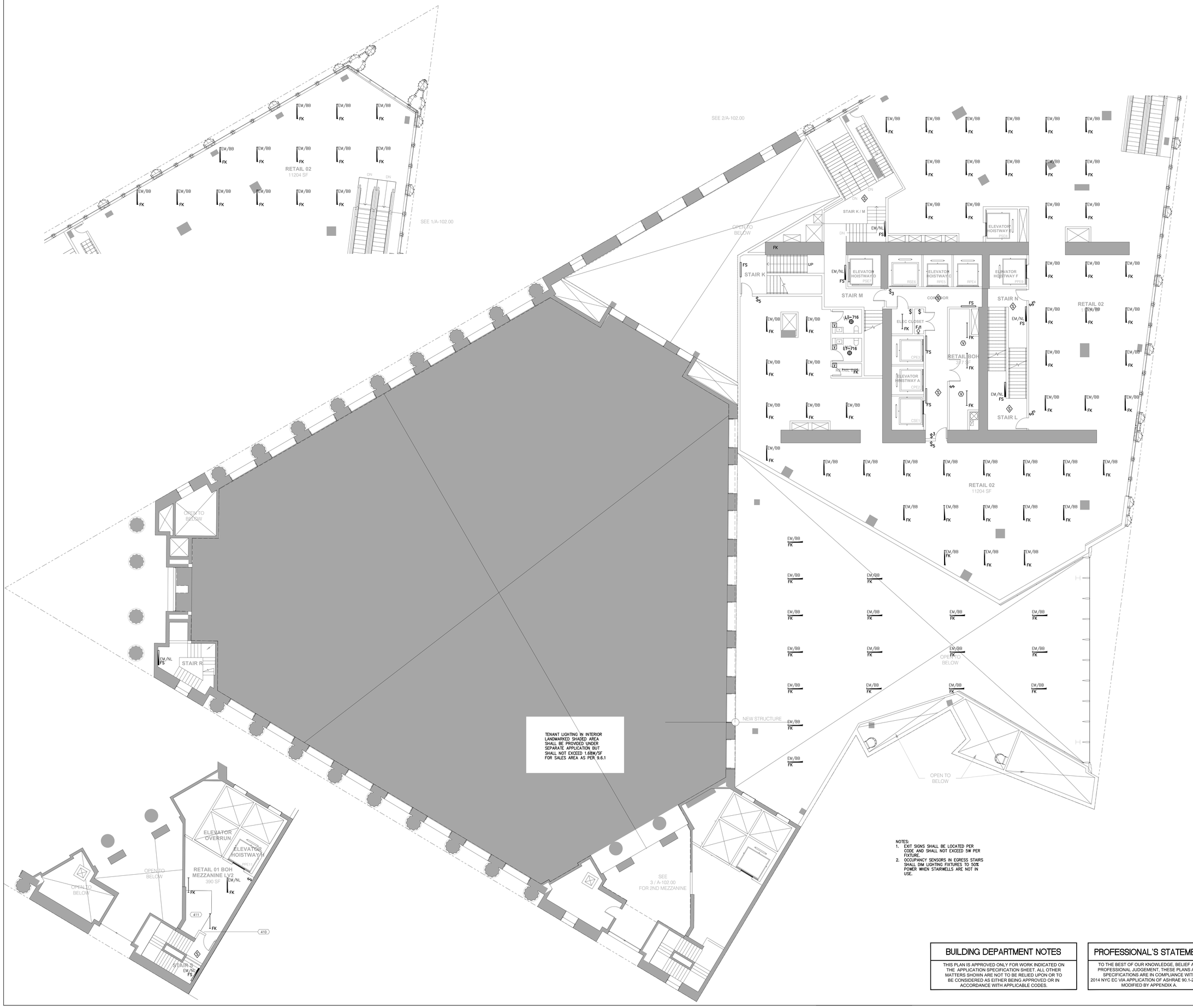
DATE	07.15.2016
PROJECT NO.	15466
DRAWN BY	BB
CHECKED BY	JR
DOB NO.	320914338

DRAWING NUMBER

EN.101.00

14 JULY 2016

DEPT OF BUILDINGS 320043436 Job Number
E-320143.01099 Scan Code



NOTES:
1. EXIT SIGNS SHALL BE LOCATED PER CODE AND SHALL NOT EXCEED 5W PER FIXTURE.
2. OCCUPANCY SENSORS IN EGRESS STAIRS SHALL DIM LIGHTING FIXTURES TO 50% POWER WHEN STAIRWELLS ARE NOT IN USE.

BUILDING DEPARTMENT NOTES

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
30 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.697.9668

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9678

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY, SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC COMMUNITY-SCALE SOLUTIONS

BMU ENGINEER
ENTEK ENGINNERING
104 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
555 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.686.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
330 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4090

9 DEKALB AVE

340 FLATBUSH AVE EXT.
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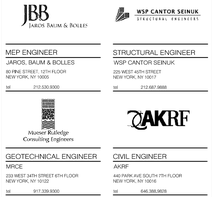

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DRAWING TITLE

NYC EC COMPLIANCE - LEVEL 2 PLAN

SEAL & SIGNATURE

DATE	07.15.2016
PROJECT NO.	15466
DRAWN BY	BB
CHECKED BY	JD
DOB NO.	320914338

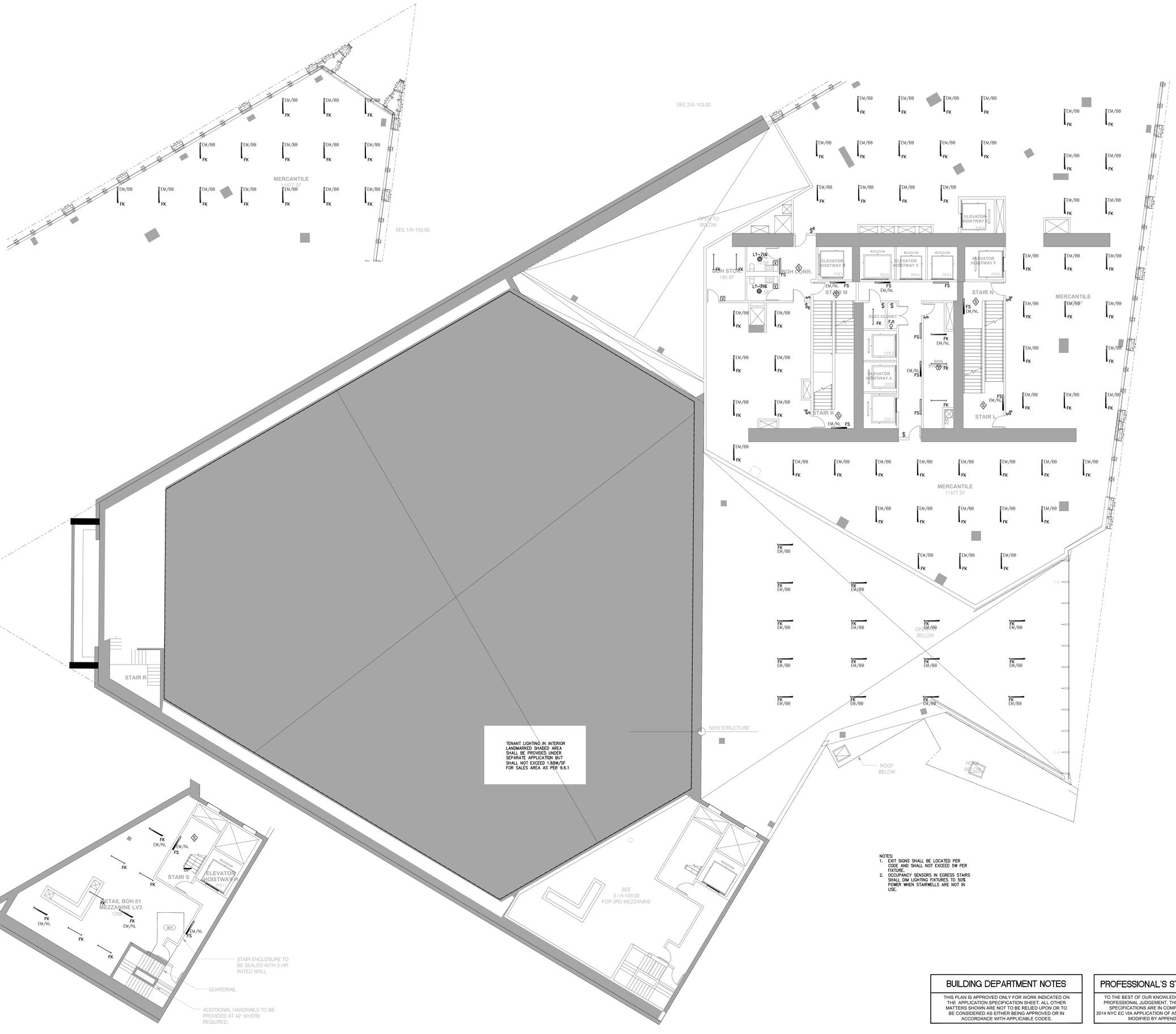
DRAWING NUMBER

EN.102.00

14 JULY 2016

DEPT OF BUILDINGS 320143338 Job Number

E1516450185 Scan Code



NOTES:
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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
51 FIFTH AVENUE, 10TH FLOOR
NEW YORK, NY 10003
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.697.9668

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9678

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY, SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS SINCE 1972

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

EXTEK ENGINEERING LLC TOTAL SYSTEMS INTEGRATION

BMU ENGINEER
EXTEK ENGINEERING
100 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2800

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
600 PARK AVENUE SOUTH 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.0025

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4090

9 DEKALB AVE

340 FLATBUSH AVE EXT.
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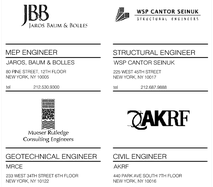

SITE DIAGRAM

7.15.2016 DOB FILING SET

DATE ISSUE NO. DATE REVISION

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DRAWING TITLE

NYC EC COMPLIANCE - LEVEL 3 PLAN

SEAL & SIGNATURE

DATE	07.15.2016
PROJECT NO.	15466
DRAWN BY	BB
CHECKED BY	JD
DOB NO.	320914338

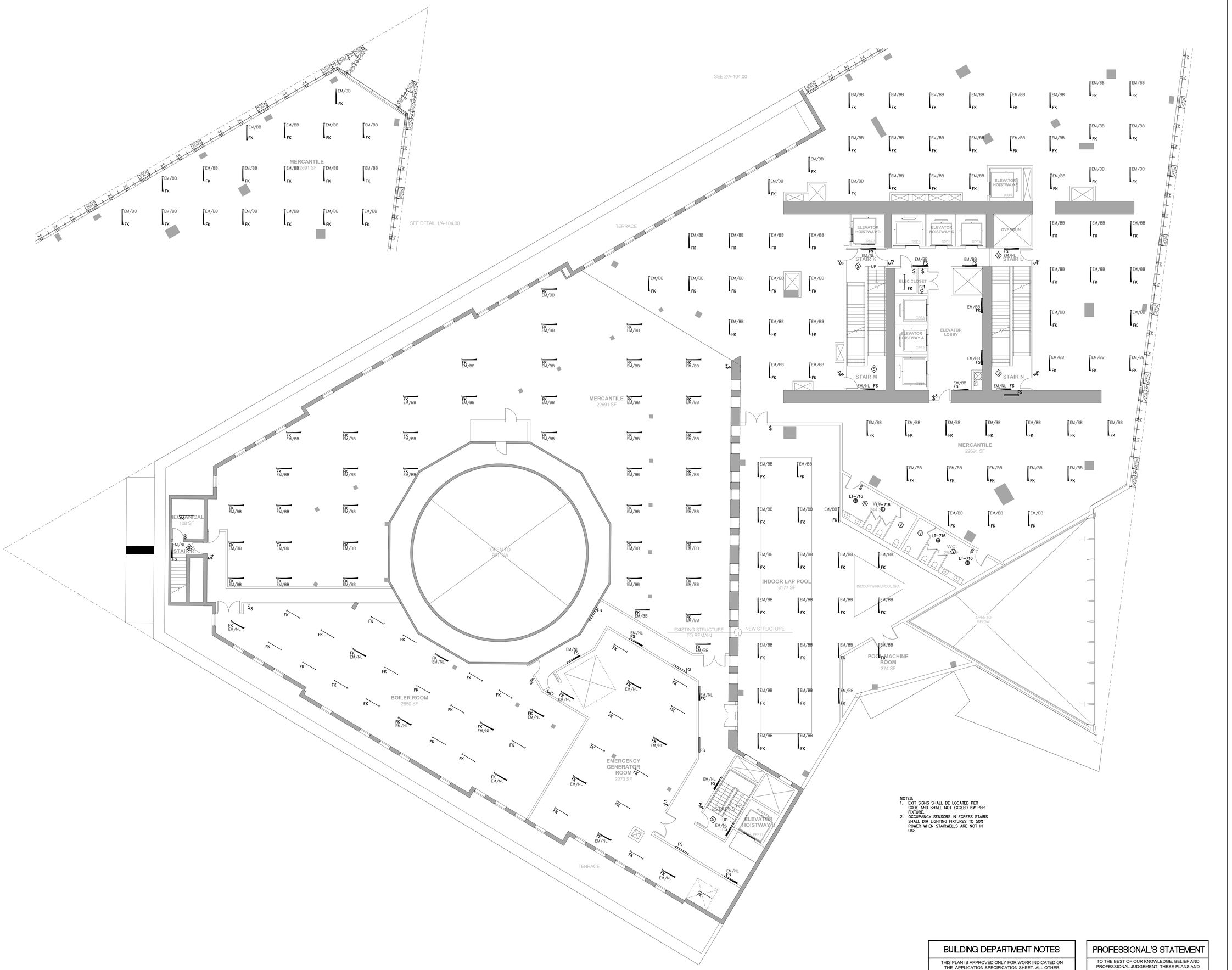
DRAWING NUMBER

EN.103.00

14 JULY 2016

DEPT OF BUILDINGS 320243338 Job Number

E556488140US Scan Code



NOTES:
1. EXIT SIGNS SHALL BE LOCATED PER CODE AND SHALL NOT EXCEED 5W PER FIXTURE.
2. OCCUPANCY SENSORS IN EGRESS STAIRS SHALL DIM LIGHTING FIXTURES TO 50% POWER WHEN STAIRWELLS ARE NOT IN USE.

BUILDING DEPARTMENT NOTES

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

PROFESSIONAL'S STATEMENT

TO THE BEST OF OUR KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH 2014 NYC EC VIA APPLICATION OF ASHRAE 90.1-2010 AS MODIFIED BY APPENDIX A.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
30 FIRE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.697.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9678

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE, SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY, SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC COMMISSIONING PARTNER

EMU ENGINEER
ENTEK ENGINEERING
196 AMOS STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7500

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.686.5389

BURO HAPPOLD ENGINEERING

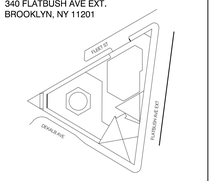
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2525

LUMINOUS TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4090

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
7.15.2016	DOB FILING SET			

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DRAWING TITLE

NYC EC COMPLIANCE - LEVEL 4 PLAN

SEAL & SIGNATURE

STATE OF NEW YORK — REGISTERED ARCHITECT

DATE	07.15.2016
PROJECT NO.	15466
DRAWN BY	BB
CHECKED BY	JD
DOB NO.	320916338

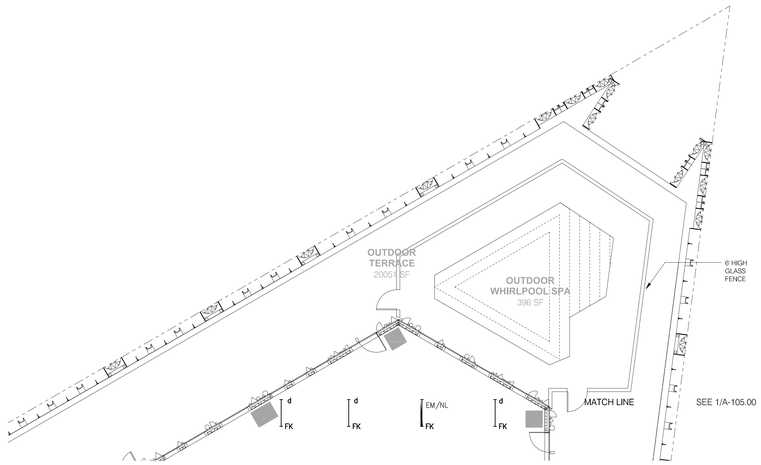
DRAWING NUMBER

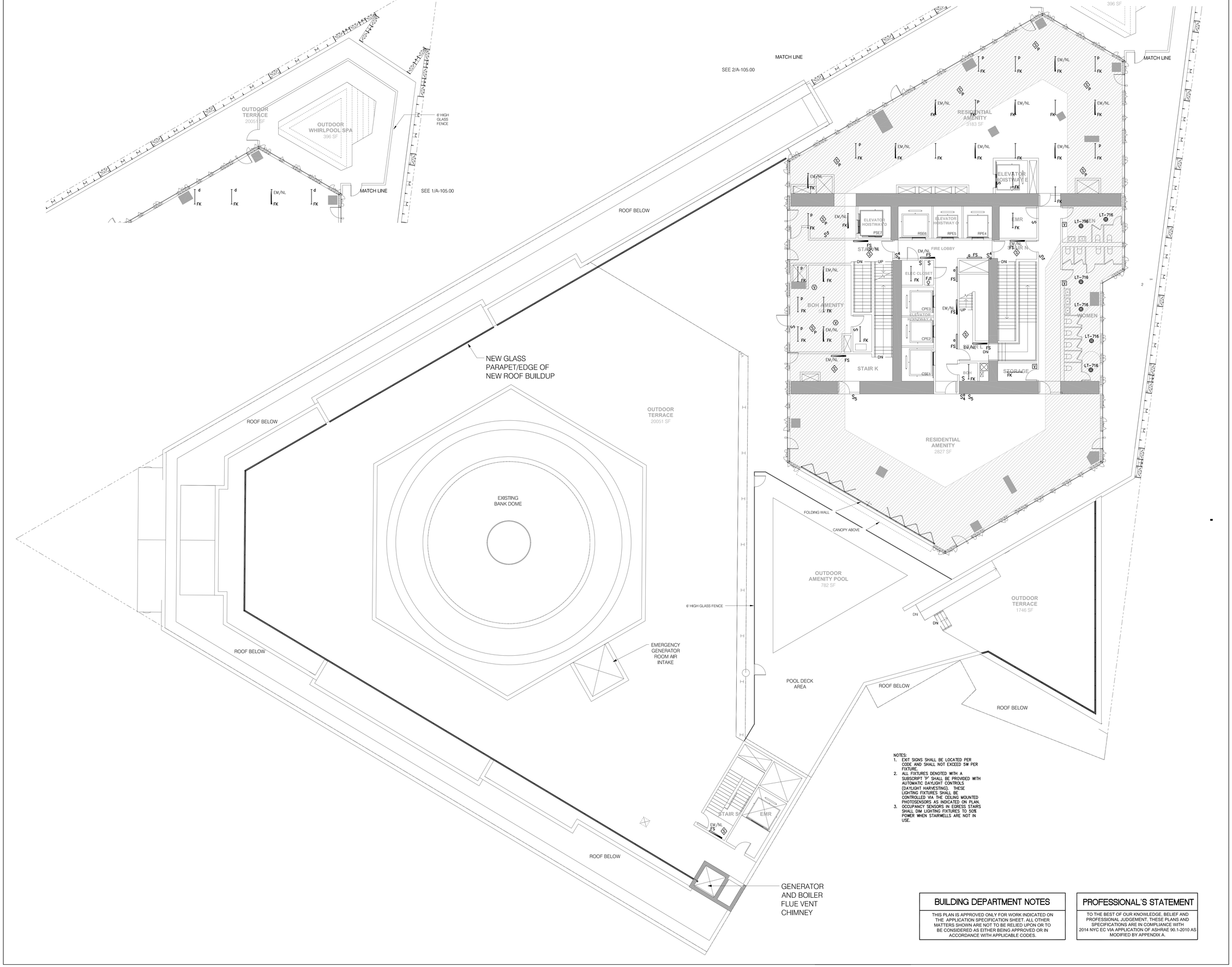
EN.104.00

LA-BAY 2016

DEPT OF BLDGS 320914338 Job Number

E5949950410 Scan Code





NOTES:
1. EXIT SIGNS SHALL BE LOCATED PER CODE AND SHALL NOT EXCEED 5W PER FIXTURE.
2. ALL FIXTURES DENOTED WITH A SUBSCRIPT 'S' SHALL BE PROVIDED WITH AUTOMATIC DAYLIGHT CONTROLS (DAYLIGHT HARVESTING). THESE LIGHTING FIXTURES SHALL BE CONTROLLED VIA THE CEILING MOUNTED PHOTOSENSORS AS INDICATED ON PLAN.
3. OCCUPANCY SENSORS IN EGRESS STAIRS SHALL DIM LIGHTING FIXTURES TO 50% POWER WHEN STAIRWELLS ARE NOT IN USE.

BUILDING DEPARTMENT NOTES

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PROFESSIONAL'S STATEMENT

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.955.9000

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 45TH STREET
NEW YORK, NY 10017
tel 212-687-9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9626

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE, SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY, SUITE 509
NEW YORK, NY 10012
tel 646.666.0646

JHPA JAN HIRD POHORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POHORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

BOLD

LIGHTING
BOLD
227 WEST 20TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
145 B BROADWAY, SUITE 308
NEW YORK, NY 10018
tel 212.513.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
186 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5399

BUROHAPPOLD ENGINEERING

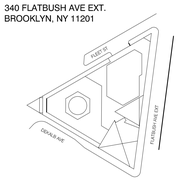
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

9 DEKALB AVE

340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
7.15.2016	DOB RLING SET			

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DRAWING TITLE

NYC EC COMPLIANCE - LEVEL 5 PLAN

SEAL & SIGNATURE

DATE	07.15.2016
PROJECT NO.	15466
DRAWN BY	BB
CHECKED BY	JD
DOB NO.	320914338
DRAWING NUMBER	EN.105.00

shop_v.18.11

DEPT OF BLDGS 320914338 Job Number

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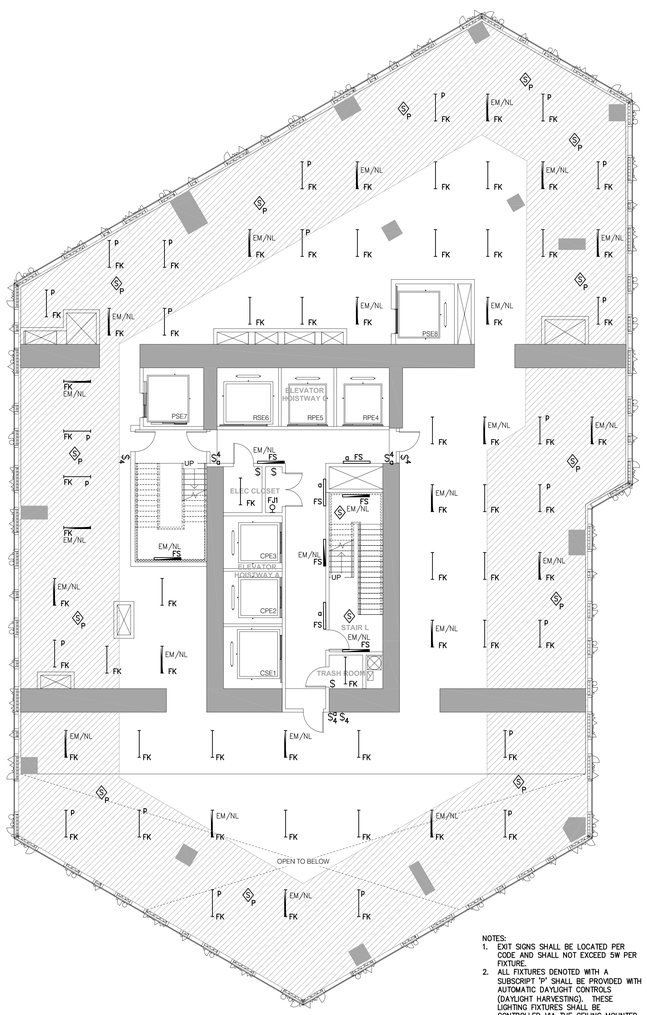
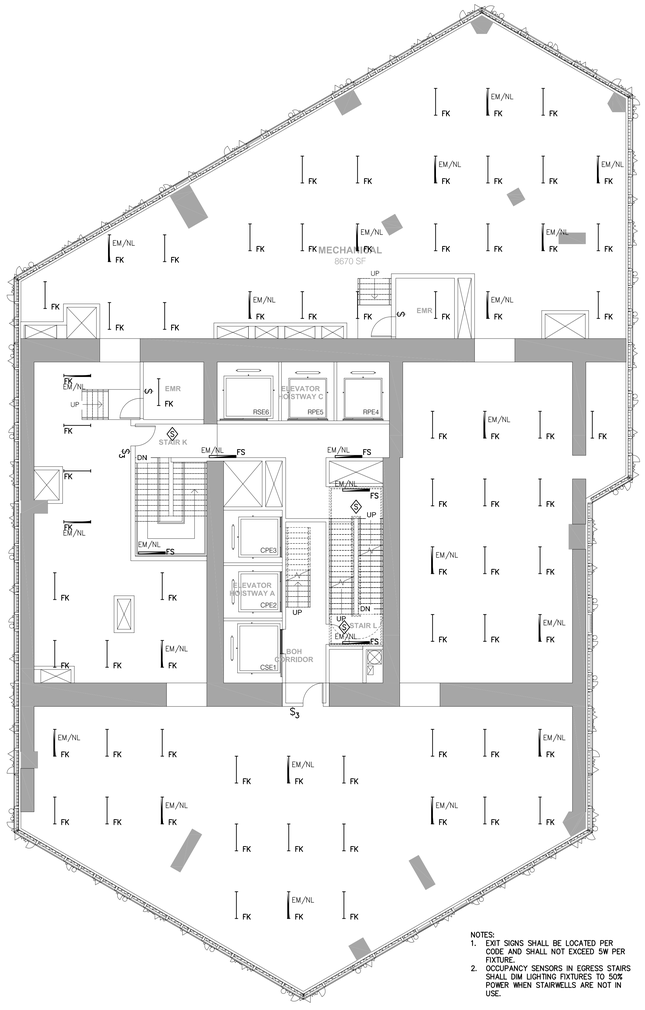


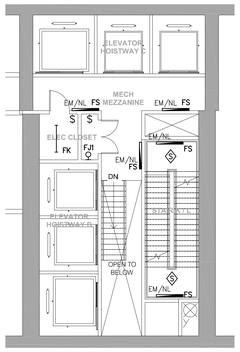
NOTES:
1. EXIT SIGNS SHALL BE LOCATED PER CODE AND SHALL NOT EXCEED 5W PER FIXTURE.
2. ALL FIXTURES DENOTED WITH A SUBSCRIPT 'P' SHALL BE PROVIDED WITH AUTOMATIC DAYLIGHT CONTROLS (DAYLIGHT HARVESTING). THESE LIGHTING FIXTURES SHALL BE CONTROLLED VIA THE CEILING MOUNTED PHOTOSENSORS AS INDICATED ON PLAN.
3. OCCUPANCY SENSORS IN EGRESS STAIRS SHALL DIM LIGHTING FIXTURES TO 50% POWER WHEN STAIRWELLS ARE NOT IN USE.

LEVEL 06 - PLAN - AMENITY | 1/8" = 1'-0" | 1 / EN-106



NOTES:
1. EXIT SIGNS SHALL BE LOCATED PER CODE AND SHALL NOT EXCEED 5W PER FIXTURE.
2. OCCUPANCY SENSORS IN EGRESS STAIRS SHALL DIM LIGHTING FIXTURES TO 50% POWER WHEN STAIRWELLS ARE NOT IN USE.

LEVEL 07 - PLAN -MECHANICAL | 1/8" = 1'-0" | 2 / EN-106



BUILDING DEPARTMENT NOTES

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PROFESSIONAL'S STATEMENT

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9000

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
80 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 45TH STREET
NEW YORK, NY 10017
tel 212-687-9886

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
230 WEST 24TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9626

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY, SUITE 509
NEW YORK, NY 10012
tel 646.666.0646

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6000

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.515.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212-271-7000

VIDARIS

BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 10TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.0025

TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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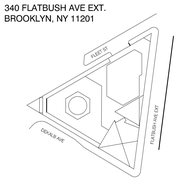
340 FLATBUSH AVE EXT.
BROOKLYN, NY 11201



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DATE ISSUE NO. DATE REVISION

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DRAWING TITLE

NYC EC COMPLIANCE - LEVEL 6 AND LEVEL 7 PLAN

SEAL & SIGNATURE

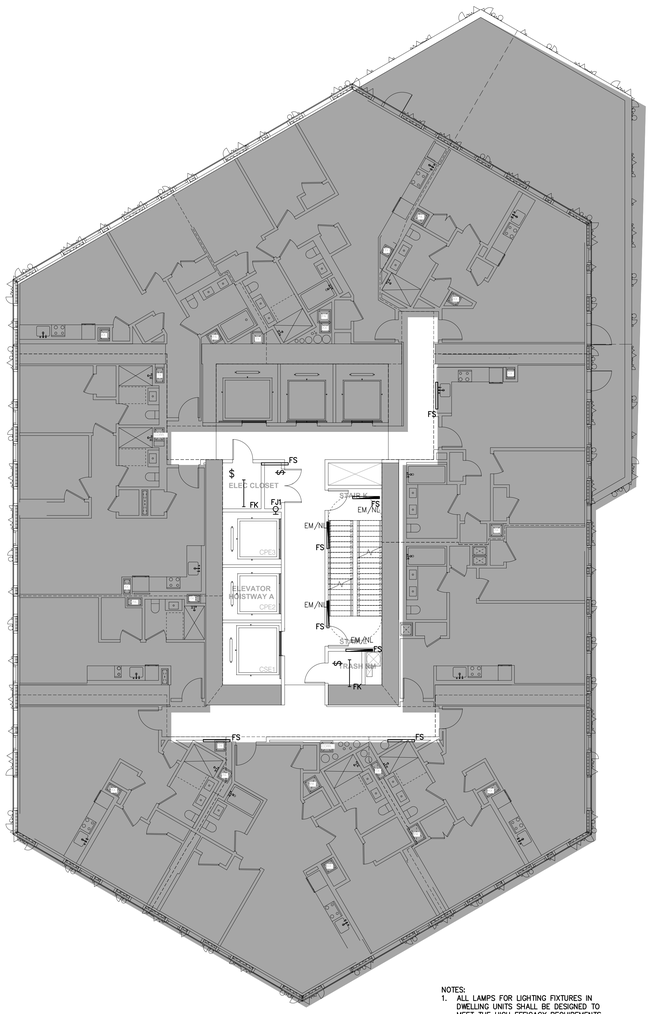
DATE	07.15.2016
PROJECT NO.	15466
DRAWN BY	BB
CHECKED BY	JO
DOB NO.	320914338

DRAWING NUMBER

EN.106.00

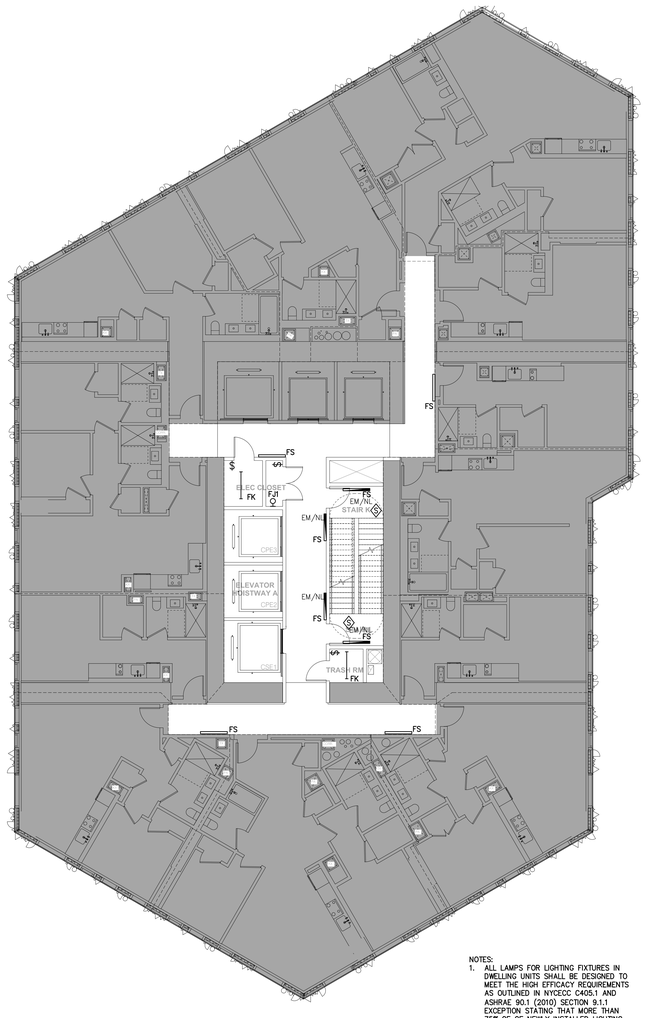
14.33"Y 20x36

DEPT OF BUILDINGS 320914338 Job Number
ES220051450 Scan Code



NOTES:
1. ALL LAMPS FOR LIGHTING FIXTURES IN DWELLING UNITS SHALL BE DESIGNED TO MEET THE HIGH EFFICACY REQUIREMENTS AS OUTLINED IN NYCECC C405.1 AND ASHRAE 90.1 (2010) SECTION 9.1.1 EXCEPTION STATING THAT MORE THAN 75% OF OF NEWLY INSTALLED LIGHTING FIXTURES WILL UTILIZE HIGH EFFICACY LAMPS.
2. EXIT SIGNS SHALL BE LOCATED PER CODE AND SHALL NOT EXCEED 5W PER FIXTURE.
3. ALL DWELLING UNITS SHALL BE INDIVIDUALLY SUBMETERED UTILIZING A REVENUE GRADE SUBMETER AT .5% ACCURACY.
4. OCCUPANCY SENSORS IN EGRESS STAIRS SHALL DIM LIGHTING FIXTURES TO 50% POWER WHEN STAIRWELLS ARE NOT IN USE.

LEVEL 16 - PLAN | 1/8" = 1'-0" | 1 / EN-107



NOTES:
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LEVEL 8 - PLAN | 1/8" = 1'-0" | 2 / EN-107

BUILDING DEPARTMENT NOTES

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PROFESSIONAL'S STATEMENT

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

sh p

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 60TH STREET
NEW YORK, NY 10017
tel 212.697.9668

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9678

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6300

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC ENERGY & ENVIRONMENTAL CONSULTING

BMU ENGINEER
ENTEK ENGINNEERING
106 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
590 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
369 PARK AVENUE SOUTH, 12TH FLOOR
NEW YORK, NY 10013
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lothron TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
220 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4785

9 DEKALB AVE

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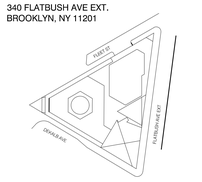
BROOKLYN, NY 11201



SITE DIAGRAM

DATE	ISSUE
7.15.2016	DOB FILING SET

NO.	DATE	REVISION

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DRAWING TITLE

NYC EC COMPLIANCE - LEVEL 8 AND LEVEL 16 PLAN

SEAL & SIGNATURE

DATE	07.15.2016
PROJECT NO.	15466
DRAWN BY	BB
CHECKED BY	JD
DOB NO.	320914338

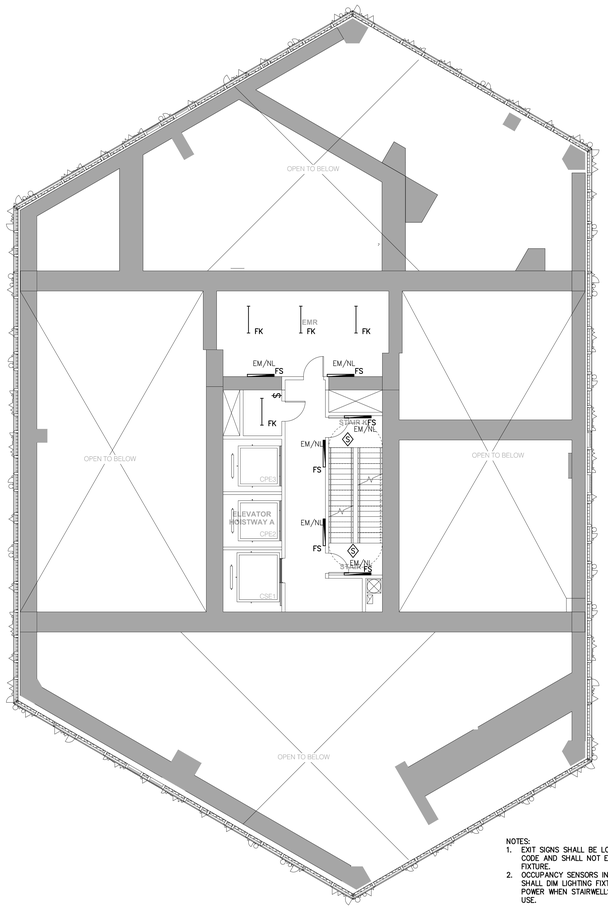
DRAWING NUMBER

EN.107.00

14 JULY 2016

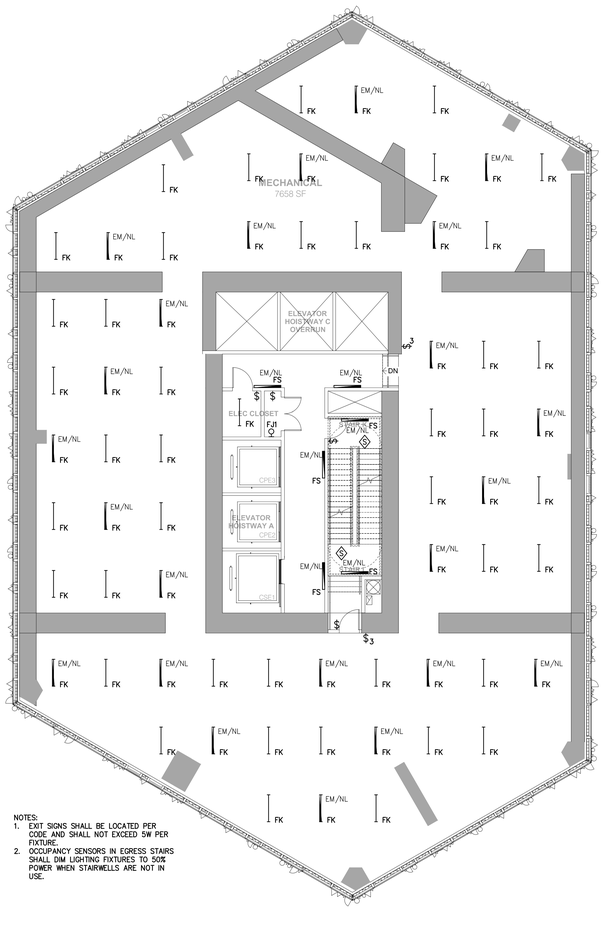
DEPT OF BUILDINGS 320914338 Job Number

B1800620365 Scan Code



NOTES:
1. EXIT SIGNS SHALL BE LOCATED PER CODE AND SHALL NOT EXCEED 5W PER FIXTURE.
2. OCCUPANCY SENSORS IN EGRESS STAIRS SHALL DIM LIGHTING FIXTURES TO 50% POWER WHEN STAIRWELLS ARE NOT IN USE.

LEVEL 27 MEZZ - PLAN - EMR | 1/8" = 1'-0" | 3 / EN-108



NOTES:
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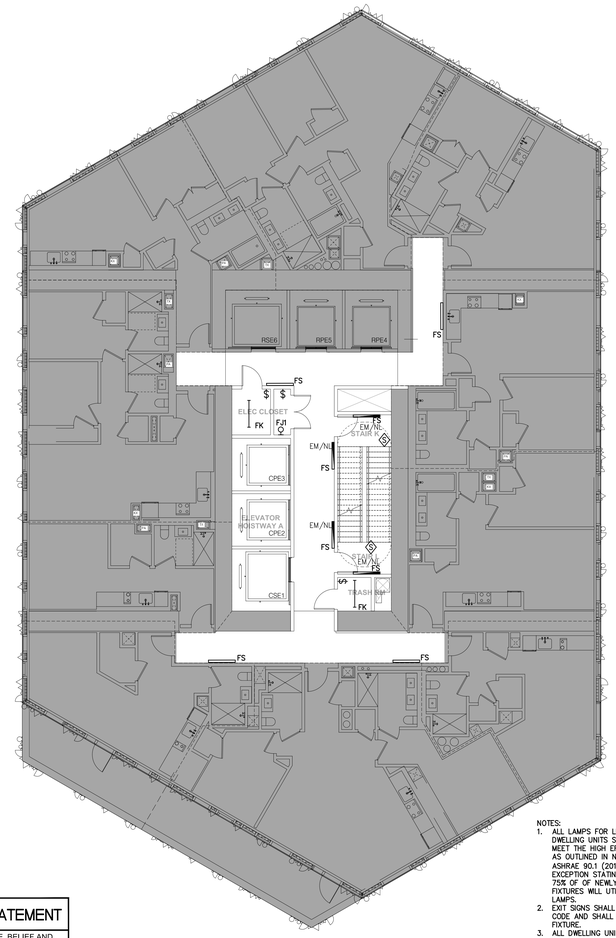
2. OCCUPANCY SENSORS IN EGRESS STAIRS SHALL DIM LIGHTING FIXTURES TO 50% POWER WHEN STAIRWELLS ARE NOT IN USE.

LEVEL 27 - PLAN - MECHANICAL | 1/8" = 1'-0" | 2 / EN-108



NOTES:
1. ALL LAMPS FOR LIGHTING FIXTURES IN DWELLING UNITS SHALL BE DESIGNED TO MEET THE HIGH EFFICACY REQUIREMENTS AS OUTLINED IN NYCECC C405.1 AND ASHRAE 90.1 (2010) SECTION 9.1.1 EXCEPTION STATING THAT MORE THAN 75% OF OF NEWLY INSTALLED LIGHTING FIXTURES WILL UTILIZE HIGH EFFICACY LAMPS.
2. EXIT SIGNS SHALL BE LOCATED PER CODE AND SHALL NOT EXCEED 5W PER FIXTURE.
3. ALL DWELLING UNITS SHALL BE INDIVIDUALLY SUBMETERED UTILIZING A REVENUE GRADE SUBMETER AT .5% ACCURACY.
4. OCCUPANCY SENSORS IN EGRESS STAIRS SHALL DIM LIGHTING FIXTURES TO 50% POWER WHEN STAIRWELLS ARE NOT IN USE.

LEVEL 22 - PLAN | 1/8" = 1'-0" | 1 / EN-108

BUILDING DEPARTMENT NOTES

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PROFESSIONAL'S STATEMENT

TO THE BEST OF OUR KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH 2014 NYC EC VIA APPLICATION OF ASHRAE 90.1-2010 AS MODIFIED BY APPENDIX A.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
63 FIRE STREET, 11TH FLOOR
NEW YORK, NY 10005
tel 212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 60TH STREET
NEW YORK, NY 10017
tel 212.697.9668

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GEOTECHNICAL ENGINEER
MRCE
230 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
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CIVIL ENGINEER
AKRF
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NEW YORK, NY 10016
tel 646.388.9678

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
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EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, # 19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

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LIGHTING
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NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

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ENTEK ENGINEERING
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HACKENSACK, NJ 07601
tel 201.820.2802

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VIDARIS
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tel 212.686.5389

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tel 212.334.2525

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tel 914.495.4090

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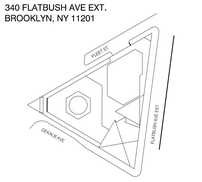

SITE DIAGRAM

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DRAWING TITLE

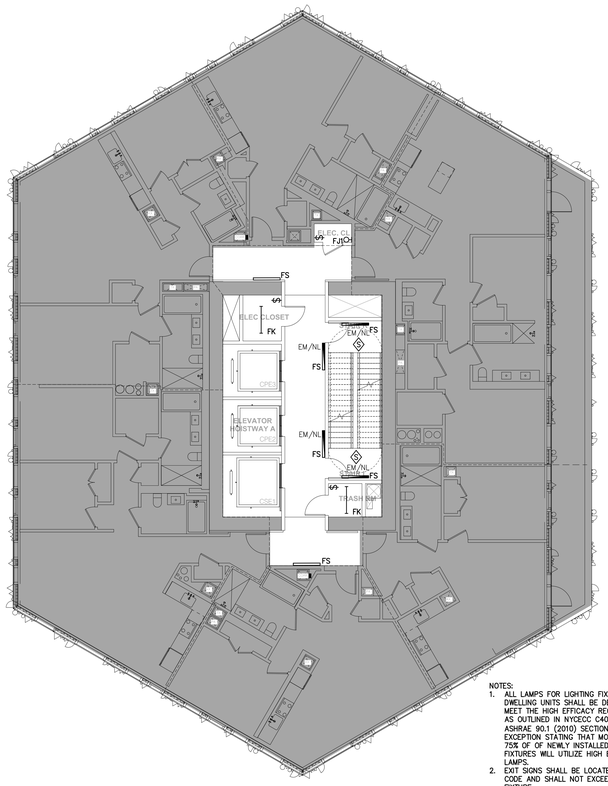
NYC EC COMPLIANCE - LEVEL 22, LEVEL 27 AND LEVEL 27 MEZZANINE PLAN

SEAL & SIGNATURE

DATE	07.15.2016
PROJECT NO.	15466
DRAWN BY	BB
CHECKED BY	JD
DOB NO.	320914338
DRAWING NUMBER	EN.108.00

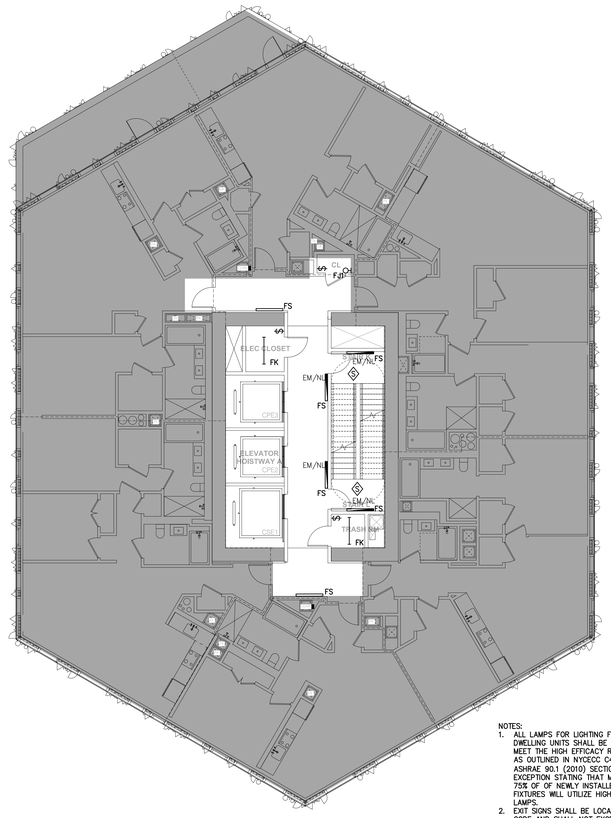
14 JULY 2016

DEPT OF BUILDINGS 320043438 Job Number
B3000807000 Scan Code



NOTES:
1. ALL LAMPS FOR LIGHTING FIXTURES IN DWELLING UNITS SHALL BE DESIGNED TO MEET THE HIGH EFFICACY REQUIREMENTS AS OUTLINED IN NYCECC C405.1 AND ASHRAE 90.1 (2010) SECTION 9.1.1 EXCEPTION STATING THAT MORE THAN 75% OF OF NEWLY INSTALLED LIGHTING FIXTURES WILL UTILIZE HIGH EFFICACY LAMPS.
2. EXIT SIGNS SHALL BE LOCATED PER CODE AND SHALL NOT EXCEED 5W PER FIXTURE.
3. ALL DWELLING UNITS SHALL BE INDIVIDUALLY SUBMETERED UTILIZING A REVENUE GRADE SUBMETER AT .5% ACCURACY.
4. OCCUPANCY SENSORS IN EGRESS STAIRS SHALL DIM LIGHTING FIXTURES TO 50% POWER WHEN STAIRWELLS ARE NOT IN USE.

LEVEL 45 - PLAN | 1/8" = 1'-0" | 4 / E7A-109



NOTES:
1. ALL LAMPS FOR LIGHTING FIXTURES IN DWELLING UNITS SHALL BE DESIGNED TO MEET THE HIGH EFFICACY REQUIREMENTS AS OUTLINED IN NYCECC C405.1 AND ASHRAE 90.1 (2010) SECTION 9.1.1 EXCEPTION STATING THAT MORE THAN 75% OF OF NEWLY INSTALLED LIGHTING FIXTURES WILL UTILIZE HIGH EFFICACY LAMPS.
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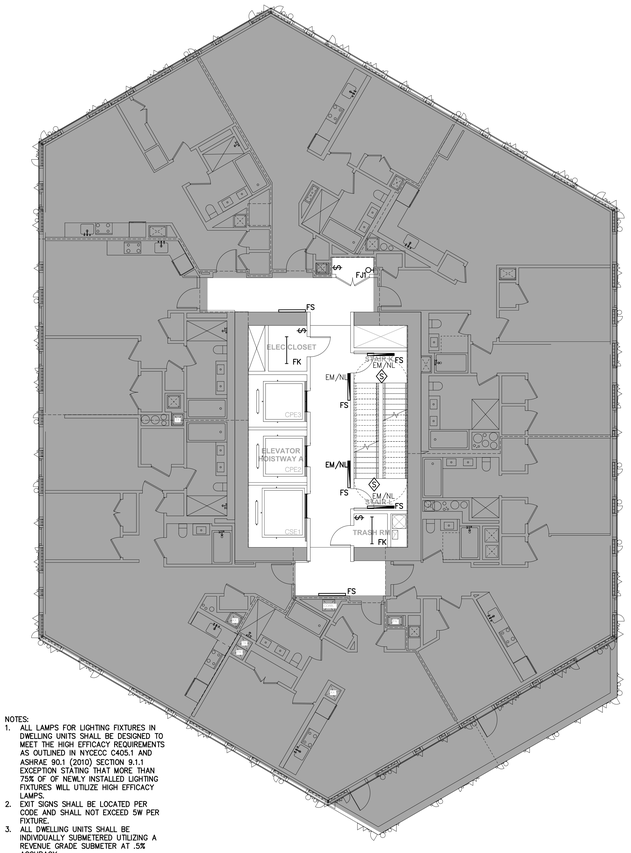
LEVEL 40 - PLAN | 1/8" = 1'-0" | 3 / E7A-109



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4. OCCUPANCY SENSORS IN EGRESS STAIRS SHALL DIM LIGHTING FIXTURES TO 50% POWER WHEN STAIRWELLS ARE NOT IN USE.

LEVEL 34 - PLAN | 1/8" = 1'-0" | 2 / E7A-109

BUILDING DEPARTMENT NOTES

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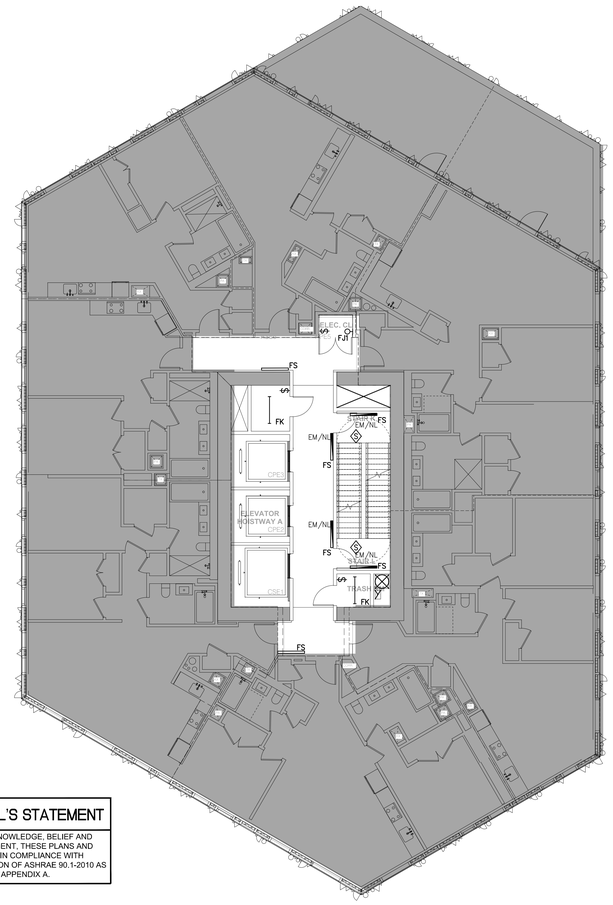

NOTES:
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LEVEL 28 - PLAN | 1/8" = 1'-0" | 1 / E7A-109

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

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ARCHITECT
SHoP ARCHITECTS, P.C.
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MEP ENGINEER
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WSP CANTOR SEINUK
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GACHOT
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tel 212.271.7500

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NEW YORK, NY 10005
tel 212.334.2925

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340 FLATBUSH AVE EXT.
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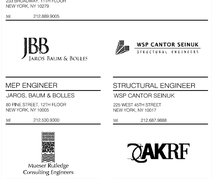

SITE DIAGRAM

7.15.2016 DOB FILING SET

DATE ISSUE | NO. DATE REVISION

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DRAWING TITLE

NYC EC COMPLIANCE - LEVEL 28, LEVEL 34, LEVEL 40 AND LEVEL 45 PLAN

SEAL & SIGNATURE

CITY OF NEW YORK LICENSED PROFESSIONAL ENGINEER

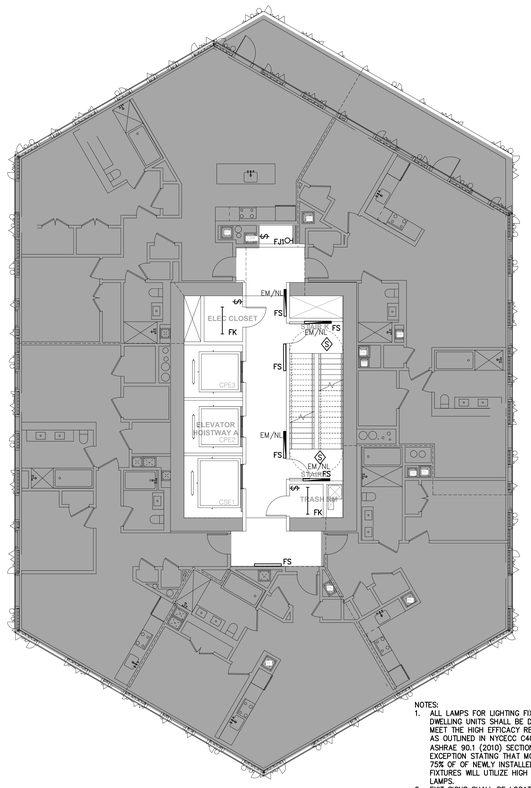
DATE	07.15.2016
PROJECT NO.	15466
DRAWN BY	BB
CHECKED BY	JD
DOB NO.	320914338

DRAWING NUMBER

EN.109.00

14.MAY.2016

DEPT OF BUILDINGS 320914338 Job Number
E1621304000 Scan Code



NOTES:
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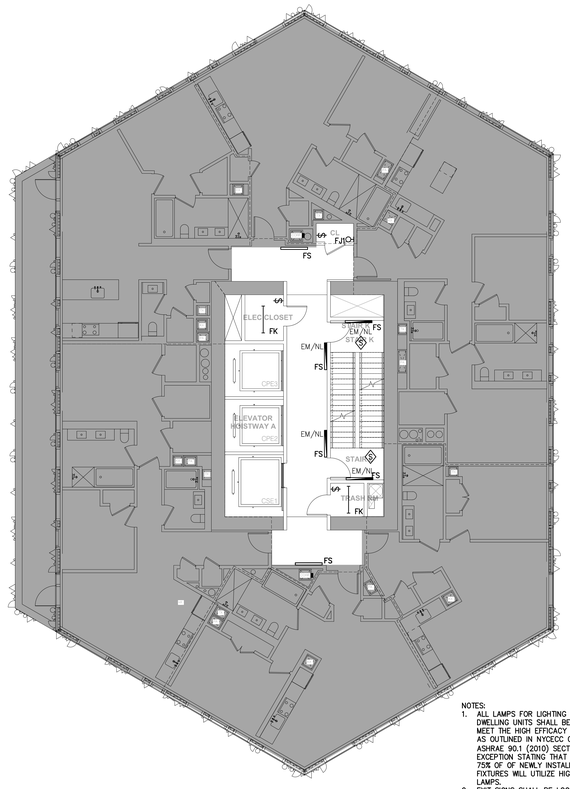
LEVEL 56 - PLAN | 1/8" = 1'-0" | 4 / E7x110



NOTES:
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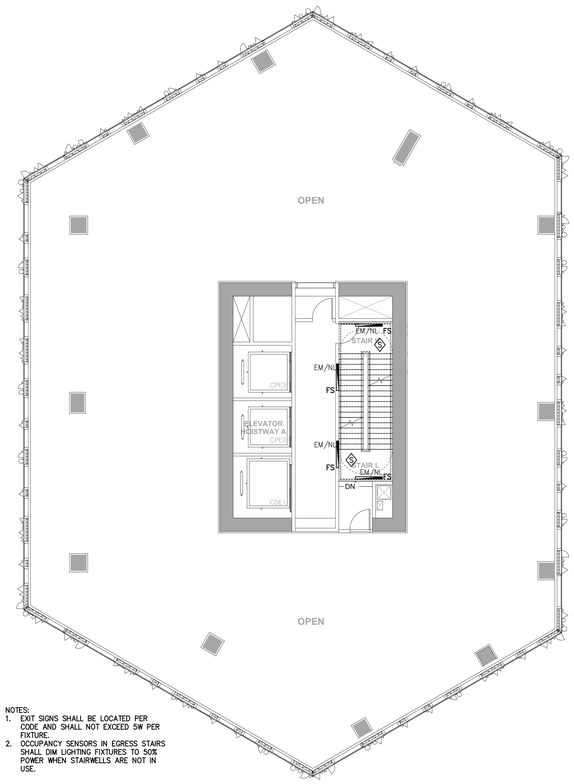
LEVEL 51 - PLAN | 1/8" = 1'-0" | 3 / E7x110



NOTES:
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LEVEL 50 - MECH / WINDBREAK | 1/8" = 1'-0" | 2 / E7x110

BUILDING DEPARTMENT NOTES

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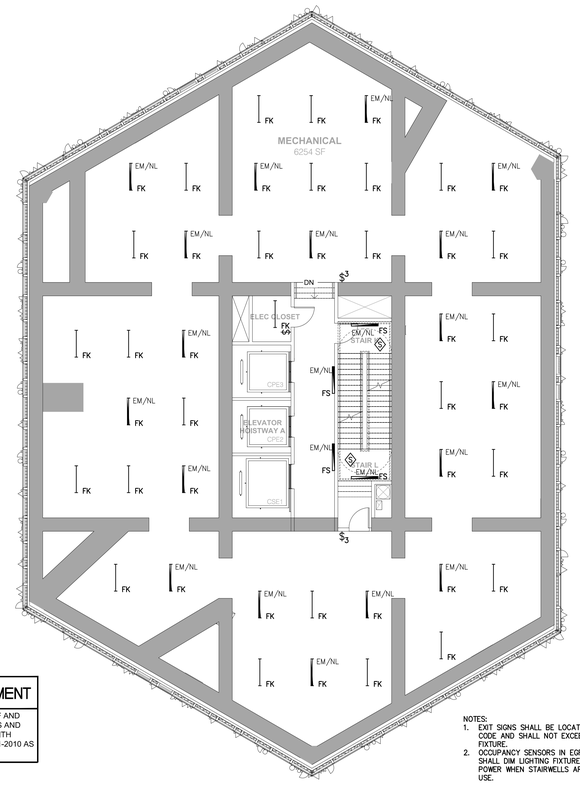

NOTES:
1. EXIT SIGNS SHALL BE LOCATED PER CODE AND SHALL NOT EXCEED 5W PER FIXTURE.
2. OCCUPANCY SENSORS IN EGRESS STAIRS SHALL DIM LIGHTING FIXTURES TO 50% POWER WHEN STAIRWELLS ARE NOT IN USE.

LEVEL 49 - MECHANICAL | 1/8" = 1'-0" | 1 / E7x110

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
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tel 212.530.9000

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WSP CANTOR SEINUK
225 WEST 60TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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NEW YORK, NY 10122
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120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, # 19
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tel 917.661.7800

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INTERIORS
GACHOT
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NEW YORK, NY 10012
tel 646.666.0848

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HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

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1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
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BMU ENGINEER
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106 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 13TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2925

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.485.4765

9 DEKALB AVE

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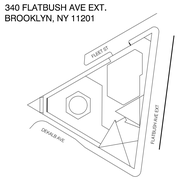
BROOKLYN, NY 11201



SITE DIAGRAM

7.15.2016 - DOB FILING SET

DATE ISSUE | NO. DATE REVISION

THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH MAY NOT BE USED OR REPRODUCED IN ANY MANNER WITHOUT PRIOR CONSENT TO THIS PROJECT OR COMPLETION OF THIS PROJECT BY OTHERS.

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DRAWING TITLE

NYC EC COMPLIANCE - LEVEL 49, LEVEL 50, LEVEL 51 AND LEVEL 56 PLAN

SEAL & SIGNATURE

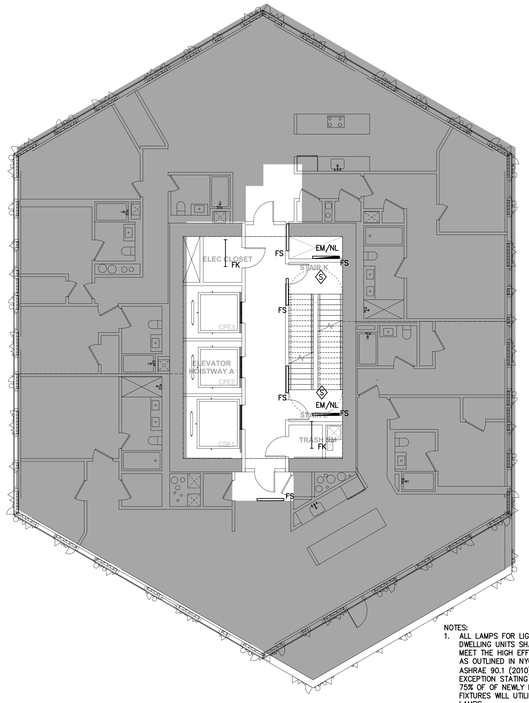
DATE	07.15.2016
PROJECT NO.	15466
DRAWN BY	BB
CHECKED BY	JD
DOB NO.	320914338

DRAWING NUMBER

EN.110.00

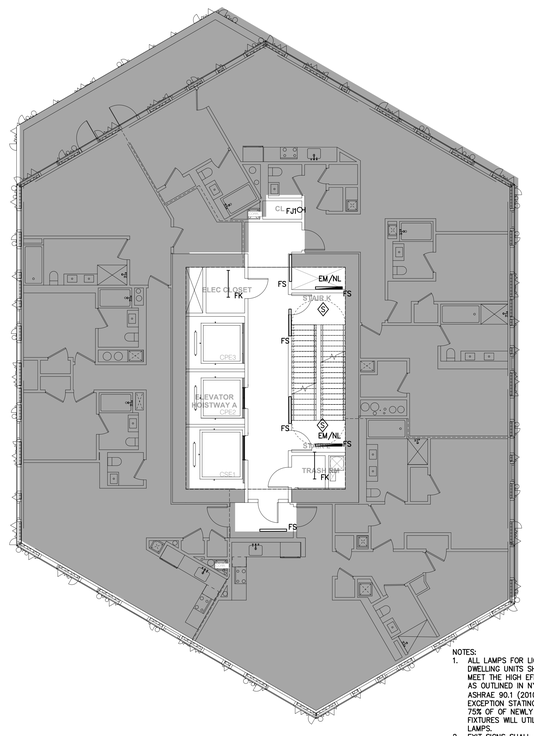
V.4.JULY 2016

DEPT OF BUILDINGS 320914338 Job Number
E320909569 Scan Code



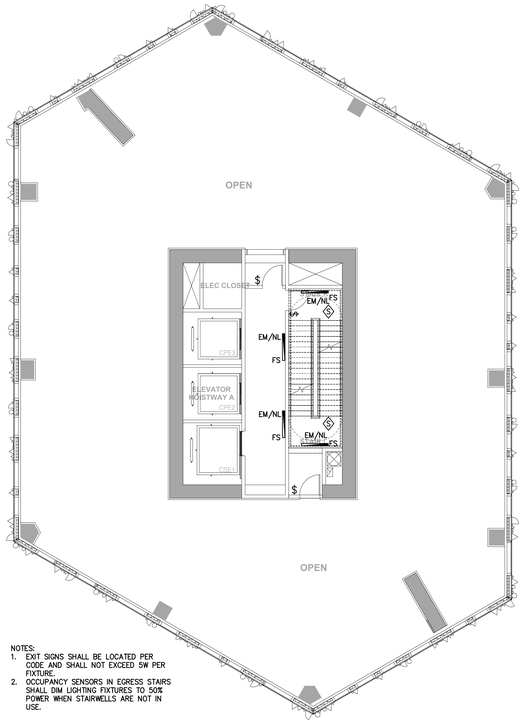
NOTES:
1. ALL LAMPS FOR LIGHTING FIXTURES IN DWELLING UNITS SHALL BE DESIGNED TO MEET THE HIGH EFFICACY REQUIREMENTS AS OUTLINED IN NYCECC C405.1 AND ASHRAE 90.1 (2010) SECTION 9.1.1 EXCEPTION STATING THAT MORE THAN 75% OF OF NEWLY INSTALLED LIGHTING FIXTURES WILL UTILIZE HIGH EFFICACY LAMPS.
2. EXIT SIGNS SHALL BE LOCATED PER CODE AND SHALL NOT EXCEED 5W PER FIXTURE.
3. ALL DWELLING UNITS SHALL BE INDIVIDUALLY SUBMETERED UTILIZING A REVENUE GRADE SUBMETER AT .5% ACCURACY.
4. OCCUPANCY SENSORS IN EGRESS STAIRS SHALL DIM LIGHTING FIXTURES TO 50% POWER WHEN STAIRWELLS ARE NOT IN USE.

LEVEL 70 - PLAN | 1/8" = 1'-0" | 4 | EN-111



NOTES:
1. ALL LAMPS FOR LIGHTING FIXTURES IN DWELLING UNITS SHALL BE DESIGNED TO MEET THE HIGH EFFICACY REQUIREMENTS AS OUTLINED IN NYCECC C405.1 AND ASHRAE 90.1 (2010) SECTION 9.1.1 EXCEPTION STATING THAT MORE THAN 75% OF OF NEWLY INSTALLED LIGHTING FIXTURES WILL UTILIZE HIGH EFFICACY LAMPS.
2. EXIT SIGNS SHALL BE LOCATED PER CODE AND SHALL NOT EXCEED 5W PER FIXTURE.
3. ALL DWELLING UNITS SHALL BE INDIVIDUALLY SUBMETERED UTILIZING A REVENUE GRADE SUBMETER AT .5% ACCURACY.
4. OCCUPANCY SENSORS IN EGRESS STAIRS SHALL DIM LIGHTING FIXTURES TO 50% POWER WHEN STAIRWELLS ARE NOT IN

LEVEL 66 - PLAN | 1/8" = 1'-0" | 3 | EN-111



NOTES:
1. EXIT SIGNS SHALL BE LOCATED PER CODE AND SHALL NOT EXCEED 5W PER FIXTURE.
2. OCCUPANCY SENSORS IN EGRESS STAIRS SHALL DIM LIGHTING FIXTURES TO 50% POWER WHEN STAIRWELLS ARE NOT IN USE.

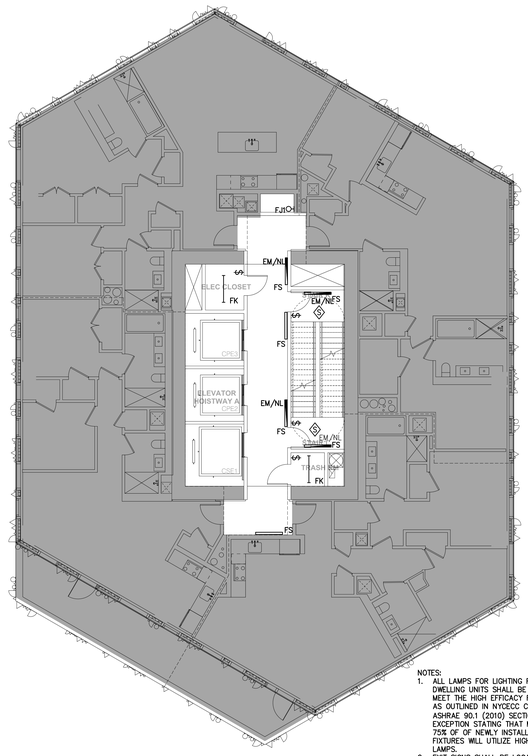
LEVEL 65 - PLAN - MECH / WINDBREAK | 1/8" = 1'-0" | 2 | EN-111

BUILDING DEPARTMENT NOTES

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

PROFESSIONAL'S STATEMENT

TO THE BEST OF OUR KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH 2014 NYC EC VIA APPLICATION OF ASHRAE 90.1-2010 AS MODIFIED BY APPENDIX A.



NOTES:
1. ALL LAMPS FOR LIGHTING FIXTURES IN DWELLING UNITS SHALL BE DESIGNED TO MEET THE HIGH EFFICACY REQUIREMENTS AS OUTLINED IN NYCECC C405.1 AND ASHRAE 90.1 (2010) SECTION 9.1.1 EXCEPTION STATING THAT MORE THAN 75% OF OF NEWLY INSTALLED LIGHTING FIXTURES WILL UTILIZE HIGH EFFICACY LAMPS.
2. EXIT SIGNS SHALL BE LOCATED PER CODE AND SHALL NOT EXCEED 5W PER FIXTURE.
3. ALL DWELLING UNITS SHALL BE INDIVIDUALLY SUBMETERED UTILIZING A REVENUE GRADE SUBMETER AT .5% ACCURACY.
4. OCCUPANCY SENSORS IN EGRESS STAIR

LEVEL 61 - PLAN | 1/8" = 1'-0" | 1 | EN-111

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
63 FIRE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9678

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE. # 19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0848

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6000

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CIVIL & STRUCTURAL ENGINEERS

BMU ENGINEER
ENTEK ENGINNEERING
106 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2902

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 13TH FLOOR
NEW YORK, NY 10010
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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
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550 MIDCHESTER AVENUE
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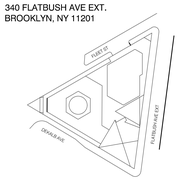

SITE DIAGRAM

7.15.2016 - DOB FILING SET

DATE ISSUE | NO. | DATE | REVISION

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DRAWING TITLE

NYC EC COMPLIANCE - LEVEL 61, LEVEL 65, LEVEL 66 AND LEVEL 70 PLAN

SEAL & SIGNATURE

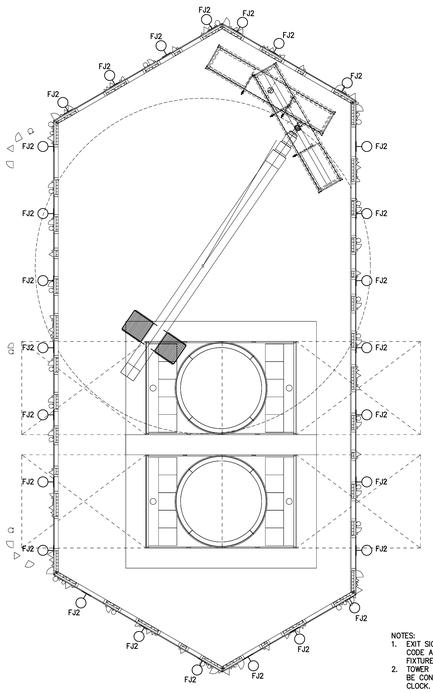
DATE	07.15.2016
PROJECT NO.	15466
DRAWN BY	BB
CHECKED BY	JD
DOB NO.	320914338

DRAWING NUMBER

EN.111.00

V.4.8.A.F. 2016

DEPT OF BUILDINGS 320914338 Job Number
E350043339 Scan Code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DEPT OF BLDGS 320914338 Job Number

E-SIGNSIGN000000 Scan Code

PROFESSIONAL'S STATEMENT

TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THIS APPLICATION IS IN COMPLIANCE WITH THE 2014 NYCECC VIA APPLICATION OF ASHRAE 90.1-2010 AS MODIFIED BY APPENDIX A.

BUILDING DEPARTMENT NOTES

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

ZONE GREEN COMPLIANCE TABLE

ZR 12-10 (12)(ii)(1,2) - Exterior Wall Dedution - Wall Performance Analysis

Elevation	Type	Detail Used	Area [sq ft]	U-value [BTU/hr/ft2/°F] (Proposed)	UA (Proposed)	U-value [BTU/hr/ft2/°F] (Code)	UA (Code)	Zone Green Required U-Value
Opaque Walls			**A**	**B**	**C = A * B**	**D**	**E = A * D**	**d * 80%**
WT-01-02-03	B Opaque Metal Panel @ Mass Wall (Slab)	01/EN-331.01	11,577	0.043	497.81	0.09	1041.93	0.072
	A Opaque Metal Panel (Metal Framed)	01/EN-331.01	98,129	0.019	1864.45	0.064	6280.26	0.0512
	C Opaque Metal Panel @ Mass Wall (Column)	01/EN-331.01	40,227	0.043	1729.76	0.09	3620.43	0.072
	D Shadow Box (Metal Framed)	01/EN-332.00	14,890	0.036	536.04	0.064	952.96	0.0512
	E Small Shadowbox @ Mass Wall	01/EN-332.00	10,151	0.037	375.59	0.09	913.59	0.072
WT-01 Mech floor	F Large Shadowbox @ Mass Wall	02/EN-331.01	11,945	0.029	346.41	0.09	1075.05	0.072
	J Louvers		1,269	n/a	n/a	n/a	n/a	n/a
WT-04A	A Opaque Stone Panel	01-02/EN-333.00-334.00	1,167	0.036	42.01	0.064	74.69	0.0512
	B Opaque Stone Elements @ Mass	01/EN-333.00	391	0.087	34.02	0.09	35.19	0.072
	D Shadowbox (Metal Framed)	01-02/EN-334.00	1,288	0.032	41.22	0.064	82.43	0.0512
	E Small Shadowbox @ Mass Wall	01-02/EN-334.00	855	0.037	31.64	0.09	76.95	0.072
	K Opaque Stone Feature	01-01/EN-333.00-334.00	2,412	0.036	86.83	0.064	154.37	0.0512
WT-04B	A Opaque Stone Panel	01/EN-335.00	442	0.036	15.91	0.064	28.29	0.0512
	C Storefront @ Curb (Mass)		123	0.068	8.36	0.09	11.07	0.072
	D Shadow Box (Metal Framed)		124	0.032	3.97	0.064	7.94	0.0512
	K Opaque Stone Feature		677	0.036	24.37	0.064	43.33	0.0512
	M Opaque Operable Door		153	0.7	107.10	0.7	107.10	0.56
	N Opaque Operable Door - Roll-Up		571	1.5	856.50	1.5	856.50	1.2
WT-05	A Opaque (Metal Framed)	01-01/EN-336.00-337.00	506	0.0487	24.64	0.064	32.38	0.0512
	D Shadow Box (Metal Framed)		406	0.925	375.55	0.064	25.98	0.0512
WT-06	J Opaque @ Mass Wall (CMU)	02/EN-335.00	6,411	0.056	359.02	0.09	576.99	0.072
	L Opaque @ Mass Wall (Slab)	01/EN-331.01	327	0.061	19.95	0.09	29.43	0.072
	M Opaque Operable Door		23	0.7	16.10	0.7	16.10	0.56
WT-07	A Opaque Metal Panel @ Mass Wall	01/EN-338.00	9,513	0.072	684.94	0.09	856.17	0.072
	M Opaque Operable Door		121	0.7	84.70	0.7	84.70	0.56
Opaque Wall TOTAL			**213,698**		**8166.87**		**16983.82**	
	Opaque Wall %		**63%**					

Elevation	Type		Area [sq ft]	U-value [BTU/hr/ft2/°F] (Proposed)	UA (Proposed)	U-value [BTU/hr/ft2/°F] (Code)	UA (Code)
Fenestration			**A**	**B**	**C = A * B**	**D**	**E = A * D**
WT-01-02-03	G Fenestration - Fixed Vision Glass	01/EN-332.00	91,110	0.438	39906.18	0.5	45,555
	H Fenestration - Operable Window	02/EN-332.00	21,318	0.457	9742.326	0.55	11,725
	I Fenestration - Glass Operable Door	03/EN-331.01	674	0.85	572.9	0.85	573
WT-04A	G Fenestration - Fixed Vision Glass	01/EN-334.00	6,498	0.406	2638.188	0.5	3,249
WT-04B	G Fenestration - Fixed Vision Glass	01/EN-335.00	1,387	0.31	429.97	0.5	694
	I Fenestration - Glass Operable Door		209	0.85	177.65	0.85	178
WT-05	G Fenestration - Fixed Vision Glass	02/EN-336.00	2,952	0.928	2739.456	0.5	1,476
	I Fenestration - Glass Operable Door		135	0.85	114.75	0.85	115
Fenestration TOTAL			**124,284**		**56321.42**		**63563.70**
FENESTRATION %			**37%**				
Exterior Gross Wall TOTAL			**337,982**		**64488.29**		**80547.52**

Energy Efficiency of Opaque Wall comparing Proposed with Code Requirement:

Total UA Opaque Wall (Proposed) / Total UA Opaque Wall (Code) =

8166.87 / 16983.82 = **48%**

Energy Efficiency Allowable per ZR12-10 (12)(ii)(1) = 80%

Energy Efficiency of Gross Wall comparing Proposed with Code Requirement:

Exterior Gross Wall UA (Proposed) / Exterior Gross Wall UA (Code) =

64488.29 / 80547.52 = **80%**

Energy Efficiency Allowable per ZR12-10 (12)(ii)(1) = 90%

ENVELOPE SYSTEM OVERALL U-VALUE SUMMARY

FENESTRATION

WALL TYPE	ASSEMBLY	DETAIL REFERENCE	SHGC	AREA BY ORIENTATION N	NE	NW	S	SE	SW	AREA TOTAL	U-VALUE	WEIGHTED AVG U-VALUE
WT-01	G. Fenestration - Fixed Vision Glass	01/EN-332.00	0.27	12,271	19,351	14,206	13,971	12,536	18,774	91,110	0.438	
	H. Fenestration - Operable Window	02/EN-332.00	0.27	2,340	5,400	2,902	2,724	2,696	5,256	21,318	0.457	0.442
	J. Louver				459	346	279	102	83	1,270		
WT-04A	G. Fenestration - Fixed Vision Glass	01/EN-334.00	0.54	577	3,427	2,494				6,498	0.406	0.389
WT-04B	G. Fenestration - Fixed Vision Glass	01/EN-335.00	0.61	64	929	268	126			1,387	0.310	
WT-05	G. Fenestration - Fixed Vision Glass	02/EN-336.00	0.58	2,952						2,952	0.928	0.928
EXISTING	Existing Bank Windows		0.40							6,485	0.800	0.800
										131,020		

FENESTRATION - GLASS DOORS

WALL TYPE	ASSEMBLY	DETAIL REFERENCE	SHGC	AREA BY ORIENTATION N	NE	NW	S	SE	SW	AREA TOTAL	U-VALUE	WEIGHTED AVG U-VALUE
WT-01	I. Fenestration - Glass Operable Door	03/EN-331.01	0.27	105	126	106	127	63	147	675	0.850	
WT-04B	I. Fenestration - Glass Operable Door		0.61	112	51		47			209	0.850	0.850
WT-05	I. Fenestration - Glass Operable Door		0.58	135						135	0.850	

OPAQUE WALL **WT**

WALL TYPE	ASSEMBLY	DETAIL REFERENCE	SHGC	AREA BY ORIENTATION N	NE	NW	S	SE	SW	AREA TOTAL	U-VALUE	WEIGHTED AVG U-VALUE		OPAQUE AVG U-VALUE (Used in Energy Analysis)
WT-01	A. Opaque Metal Panel (Metal Framed)	01/EN-331.01		13,270	21,901	14,536	15,300	13,966	19,157	98,129	0.019	Metal-Framed Wall	0.0212	0.0286
	D. Shadow Box (Metal Framed)	01/EN-332.00		2,255	3,020	2,308	2,263	2,127	2,917	14,890	0.036			
	B. Opaque Metal Panel @ Mass Wall (Slab)	01/EN-331.01		1,619	2,635	1,636	1,756	1,593	2,339	11,577	0.043			
	C. Opaque Metal Panel @ Mass Wall (Column)	01/EN-331.01		5,494	9,366	6,088	5,187	4,672	9,219	40,227	0.043	Mass Wall	0.0399	
	E. Small Shadowbox @ Mass Wall	01/EN-332.00		1,288	2,299	1,583	1,487	1,336	2,156	10,151	0.037			
	F. Large Shadowbox @ Mass Wall	02/EN-331.01		503	4,059	1,861	1,279	1,018	3,226	11,945	0.029			
WT-04A, WT-04B, and WT-06	A. Opaque Stone Panel (Metal Framed)	01-02/EN-333.00-334.00		367	630	443	41	55	75	1,610	0.036	Metal-Framed Wall	0.0352	0.0462
	D. Shadow Box (Metal Framed)	01-02/EN-334.00		180	745	486				1,412	0.032			
	K. Opaque Stone Feature	01-01/EN-333.00-334.00			2,633	1,506				4,139	0.036			
	B. Opaque Stone Elements @ Slab (Mass)	01/EN-333.00		30	226	135				391	0.087			
	C. Storefront Curb @ Mass Wall	01/EN-335.00			123					123	0.068			
	E. Small Shadowbox @ Mass Wall	01-02/EN-334.00		76	451	328				855	0.037	Mass Wall	0.0559	
	J. Opaque @ Mass Wall (CMU)	02/EN-335.00		138	353	218	2,088	3,301	312	6,411	0.056			
	L. Opaque @ Mass Wall (Slab)	01/EN-331.01		20	8	5	72	153	68	327	0.061			
WT-05	A. Opaque (Metal Framed)	01-01/EN-336.00-337.00		506						506	0.049	Metal-Framed Wall	0.4390	0.4390
	D. Shadow Box (Metal Framed)	01/EN-337.00		406						406	0.925			
WT-07	A. Opaque Metal Panel (Metal Framed)	01/EN-338.00		2,667	2,074	2,106	2,667			9,513	0.072	Metal-Framed Wall	0.0720	0.0720
EXISTING	Existing Bank Walls									29,873	0.104	Mass Wall	0.1040	0.1040
										242,485				

OPAQUE DOORS

WALL TYPE	ASSEMBLY	DETAIL REFERENCE	SHGC	AREA BY ORIENTATION N	NE	NW	S	SE	SW	AREA TOTAL	U-VALUE	WEIGHTED AVG U-VALUE	
WT-06	M. Opaque Operable Door				23					23	0.700	Opaque Swinging	0.700
WT-07	M. Opaque Operable Door				80	40				121	0.700		
WT-04B	M. Opaque Operable Door					103		25	25	153	0.700		
	N. Opaque Operable Door - Roll-Up					571				571	1.500	Roll-Up	1.5000

ROOF	DETAIL REFERENCE	SR	AREA TOTAL	U-VALUE
ROOF ON TERRACE, WIND FLOORS AND TOWER	4/EN-350.00	0.30	32,935	0.047
BULKHEAD ROOF	3/EN-350.00	0.30	795	0.047
EXISTING BANK ROOF			13,070	0.140
			46,800	

BELOW GRADE WALL	DETAIL REFERENCE	AREA TOTAL	C-VALUE
WALL SEPARATING COND.,UNCOND. SPACE	7/EN-350.00	5,932	0.072
EXISTING FOUNDATION WALL		17,669	1.140
NEW FOUNDATION WALL	1/EN-350.00	11,048	1.140
		34,649	

SLAB ON GRADE	DETAIL REFERENCE	AREA TOTAL	F-VALUE
NEW FOUNDATION SLAB	2/EN-350.00	20,213	0.730
EXISTING FOUNDATION SLAB		24,932	0.730
		45,145	

FLOORS (EXPOSED)	DETAIL REFERENCE	AREA TOTAL	U-VALUE
GARAGE CEILING	6/EN-350.00	23,174	0.050
WIND FLOOR CEILINGS	5/EN-350.00	10,698	0.050
		33,872	

NOTE:
BUILDING ORIENTATION IS QUANTIFIED PER ELEVATION. HEXAGONAL BUILDING IS BROKEN DOWN INTO THE FOLLOWING SIX FACES: N, NE, SE , S, SW, SE.
FOR ENERGY MODEL ANALYSIS AS SHOWN ON EN-1 FORM, THE ORIENTATION IS COMBINED INTO FOUR ORIENTATIONS: N, S, E, W.

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
M 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
M 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 11TH FLOOR
NEW YORK, NY 10005
M 212.530.5000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 60TH STREET
NEW YORK, NY 10017
M 212.497.8898

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
M 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
M 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
130 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
M 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
M 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
M 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 5A
NEW YORK, NY 10018
M 212.759-6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
M 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
M 212.315.6400

ENTEX ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEX ENGINEERING
186 AMES STREET
HACKENSACK, NJ 07601
M 201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
350 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
M 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
M 212.689.5389

BUROHAPPOLD ENGINEERING

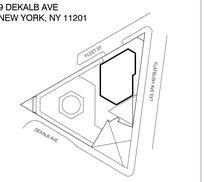
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
M 212.334.2025

TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
M 914.495.4290

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET

DATE ISSUE NO. DATE REVISION

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DRAWING TITLE

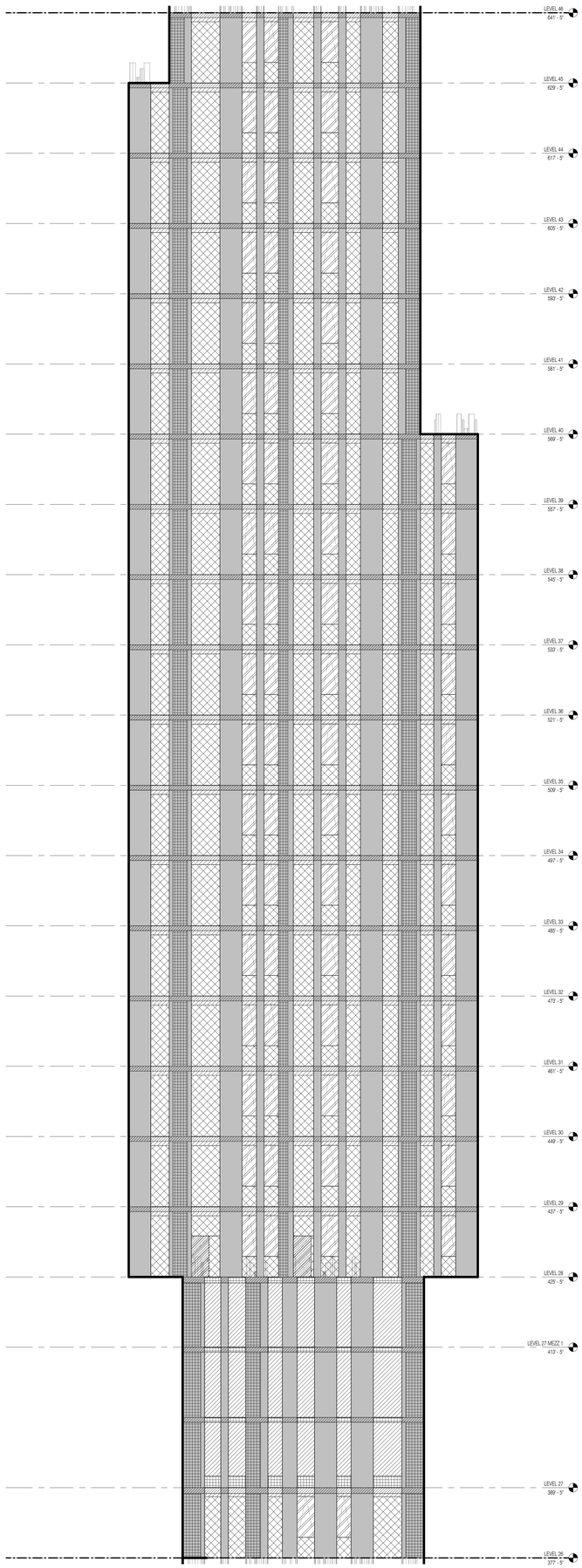
FACADE ENERGY COMPLIANCE OVERVIEW

SEAL & SIGNATURE

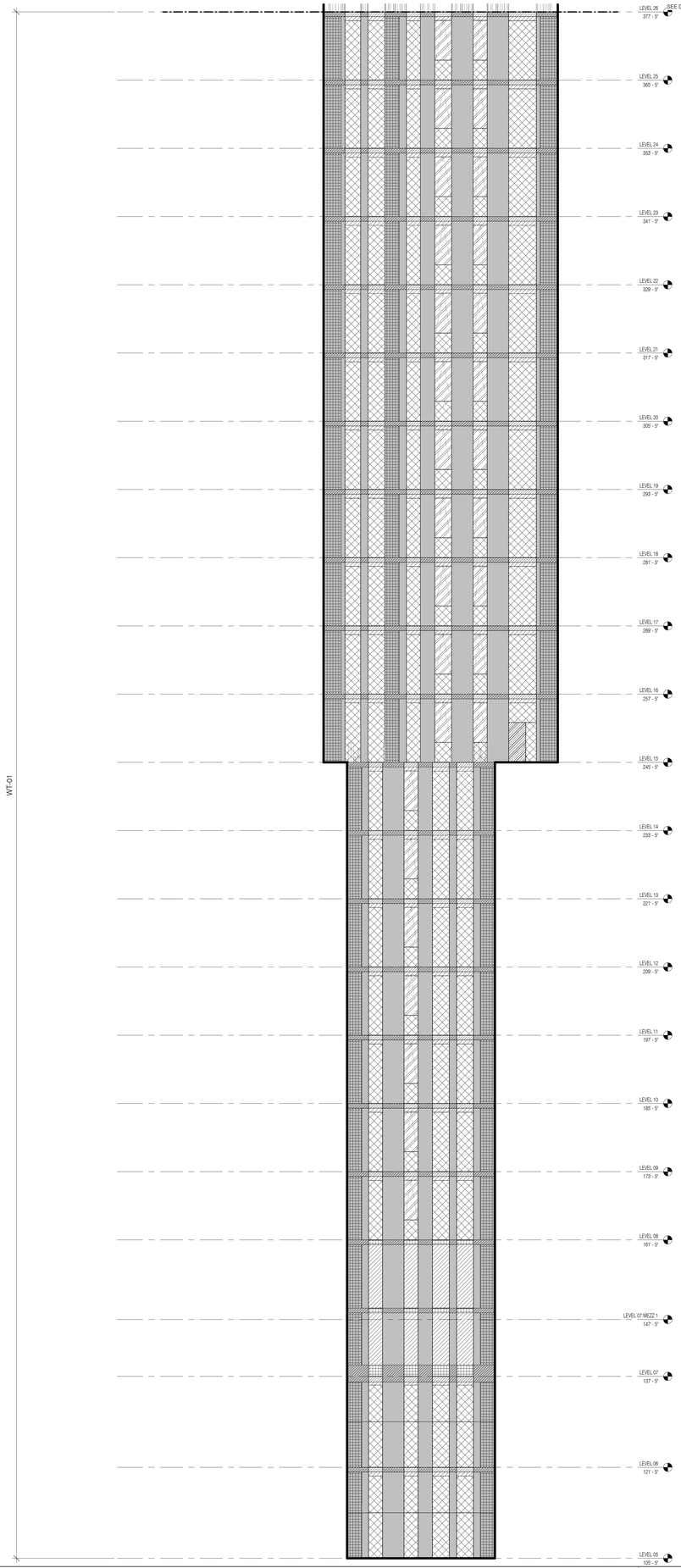
CITY OF NEW YORK LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	EN-300.00

DEPT OF BLDGS 320914338 Job Number
E320905958EM Scan Code



TOWER ELEVATION - ENERGY MODEL TAKEOFF - NORTH - 2 | 1/8" = 1'-0" | 2 | EN-302.00



TOWER ELEVATION - ENERGY MODEL TAKEOFF - NORTH - 1 | 1/8" = 1'-0" | 1 | EN-302.00

ENERGY MODEL AREA TAKEOFF - NORTH ELEVATION

HATCH	TYPE	AREA
	A Opaque Panel (Metal Framed)	13270 SF
	B Opaque Metal Panel @ Mass Wall (Slab)	1619 SF
	C Opaque Metal Panel @ Mass Wall (Column)	5494 SF
	D Shadow Box (Metal Framed)	2255 SF
	E Small Shadowbox @ Mass Wall	1288 SF
	F Large Shadowbox @ Mass Wall	503 SF
	G Fenestration - Fixed Vision Glass	12271 SF
	H Fenestration - Operable Window	2340 SF
	I Fenestration - Glass Operable Door	105 SF

PROFESSIONAL'S STATEMENT

TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THIS APPLICATION IS IN COMPLIANCE WITH THE 2014 NYCECC VIA APPLICATION OF ASHRAE 90.1-2010 AS MODIFIED BY APPENDIX A.

BUILDING DEPARTMENT NOTES

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.5000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.6888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
135 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315-6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
260 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.0325

TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
330 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.466.4290

9 DEKALB AVE

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NEW YORK, NY 11201

SITE DIAGRAM

07/15/16 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

TOWER ELEVATIONS - EN TAKEOFF - NORTH - A

SEAL & SIGNATURE

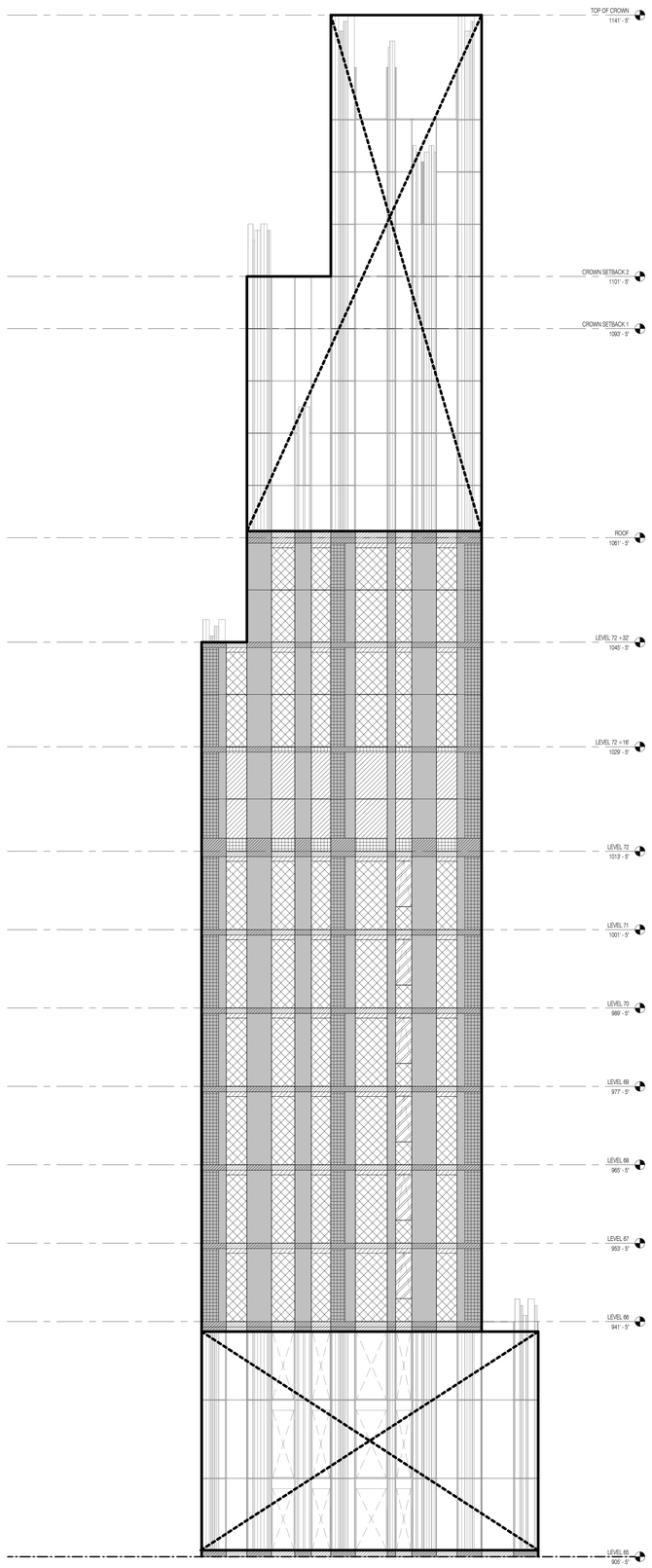
STATE OF NEW YORK — LICENSED ARCHITECT

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

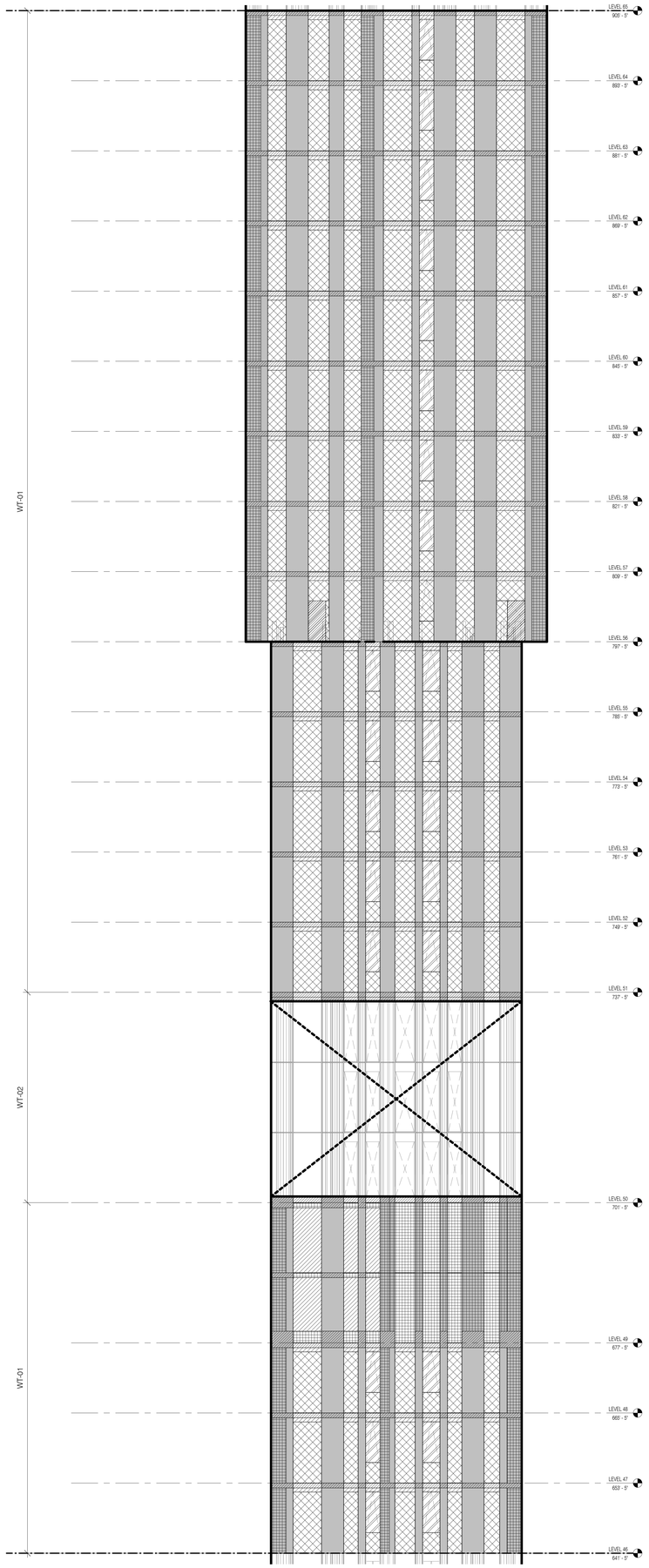
DRAWING NUMBER

EN-302.00

DEPT OF BLDGS 320914338 Job Number
E500018812276 Scan Code



TOWER ELEVATION - ENERGY MODEL TAKEOFF - NORTH - 4 | 1/8" = 1'-0" | 2 | EN-303.00



TOWER ELEVATION - ENERGY MODEL TAKEOFF - NORTH - 3 | 1/8" = 1'-0" | 1 | EN-303.00

ENERGY MODEL AREA TAKEOFF - NORTH ELEVATION

HATCH	TYPE	AREA
	A Opaque Panel (Metal Framed)	13270 SF
	B Opaque Metal Panel @ Mass Wall (Slab)	1619 SF
	C Opaque Metal Panel @ Mass Wall (Column)	5494 SF
	D Shadow Box (Metal Framed)	2255 SF
	E Small Shadowbox @ Mass Wall	1288 SF
	F Large Shadowbox @ Mass Wall	503 SF
	G Fenestration - Fixed Vision Glass	12271 SF
	H Fenestration - Operable Window	2340 SF
	I Fenestration - Glass Operable Door	105 SF

PROFESSIONAL'S STATEMENT

TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THIS APPLICATION IS IN COMPLIANCE WITH THE 2014 NYCECC VIA APPLICATION OF ASHRAE 90.1-2010 AS MODIFIED BY APPENDIX A

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

ShoP

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 44TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
130 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK EGINNEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
590 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7500

VIDARIS

BUILDING ENERGY
VIDARIS
260 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BURO HAPPOLD ENGINEERING

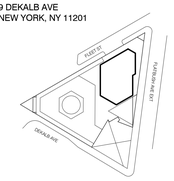
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Latorso TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4390

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

TOWER ELEVATIONS - EN TAKEOFF - NORTH - B

SEAL & SIGNATURE

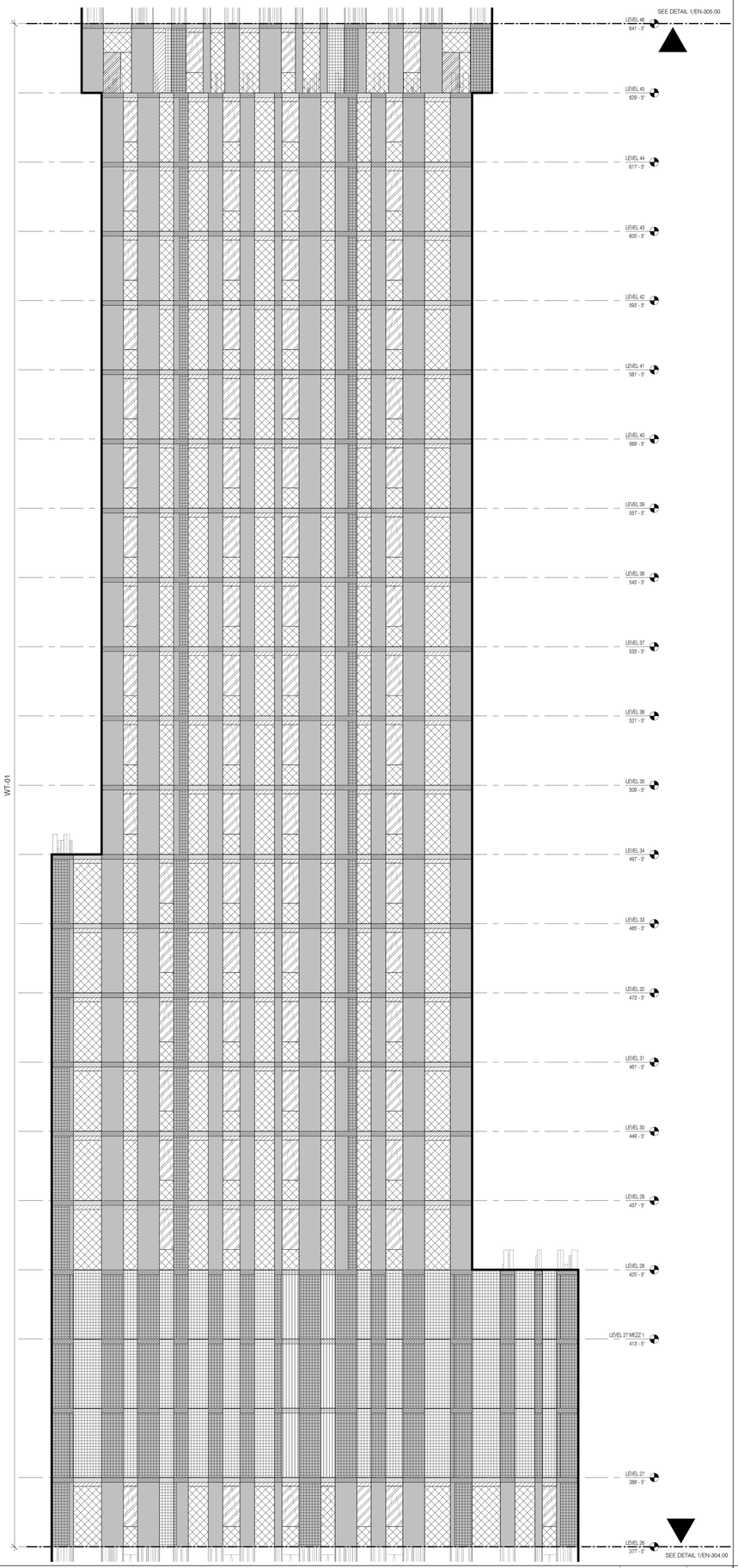
CITY OF NEW YORK DEPARTMENT OF BUILDINGS LICENSED PROFESSIONAL

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

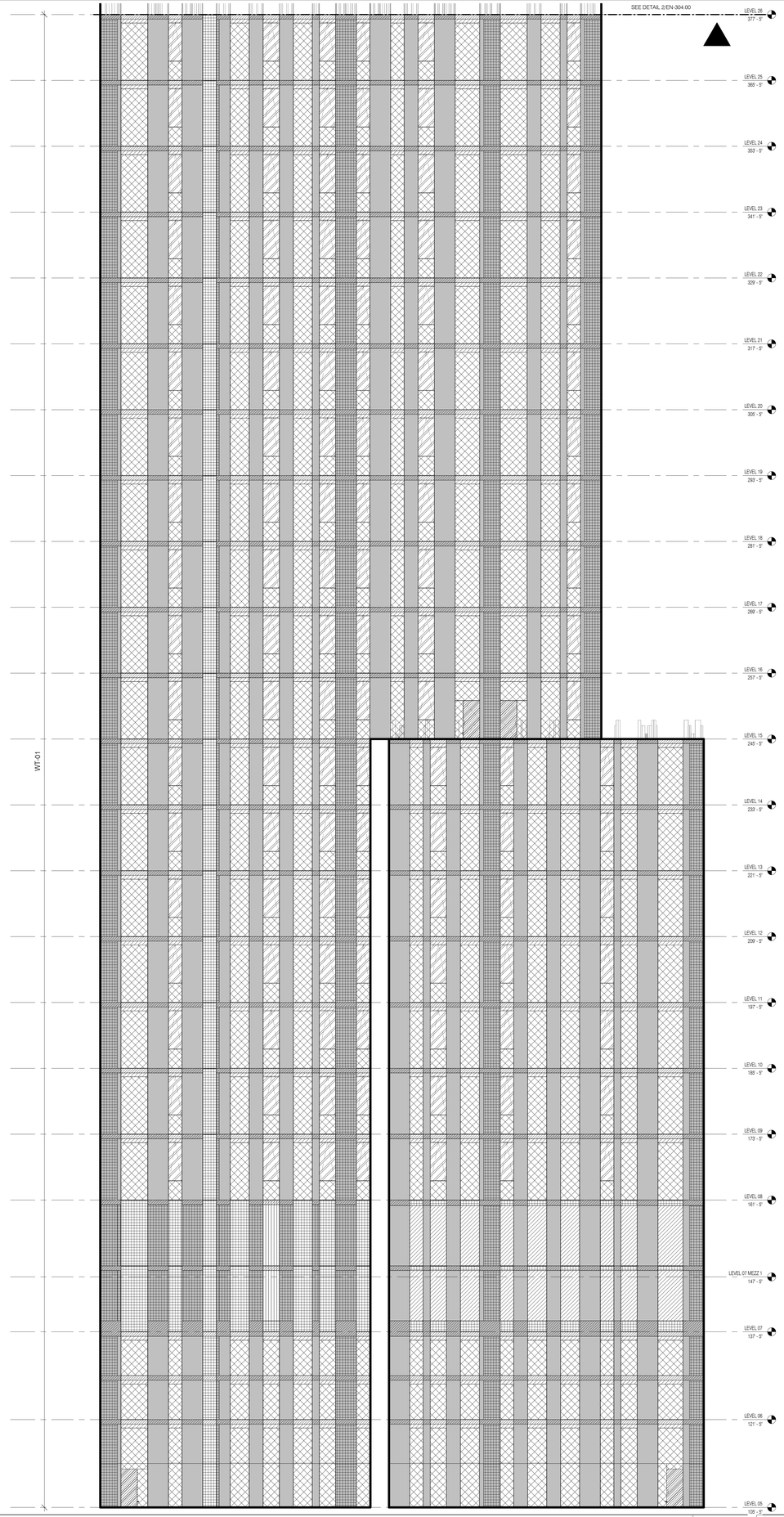
DRAWING NUMBER

EN-303.00

DEPT OF BLDGS 320914338 Job Number
EN-304.00 Sheet Code



TOWER ELEVATION - ENERGY MODEL TAKEOFF - NORTHEAST - 2 | 1/8" = 1'-0" | 2 EN-304.00



TOWER ELEVATION - ENERGY MODEL TAKEOFF - NORTHEAST - 1 | 1/8" = 1'-0" | 1 EN-304.00

ENERGY MODEL AREA TAKEOFF - NORTHEAST ELEVATION

HATCH	TYPE	AREA
	A Opaque Panel (Metal Framed)	21901 SF
	B Opaque Metal Panel @ Mass Wall (Slab)	2635 SF
	C Opaque Metal Panel @ Mass Wall (Column)	9366 SF
	D Shadow Box (Metal Framed)	3019 SF
	E Small Shadowbox @ Mass Wall	2299 SF
	F Large Shadowbox @ Mass Wall	4059 SF
	G Fenestration - Fixed Vision Glass	19351 SF
	H Fenestration - Operable Window	5400 SF
	I Fenestration - Glass Operable Door	126 SF
	J Louver	459 SF

PROFESSIONAL'S STATEMENT

TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THIS APPLICATION IS IN COMPLIANCE WITH THE 2014 NYCECC VIA APPLICATION OF ASHRAE 90.1-2010 AS MODIFIED BY APPENDIX A.

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
130 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315-6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
590 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lindsay TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
530 MITCHESTER AVENUE
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tel 914.465.4290

9 DEKALB AVE

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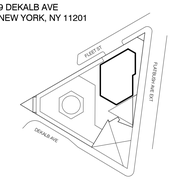
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

TOWER ELEVATIONS - EN TAKEOFF -NORTHEAST - A

SEAL & SIGNATURE

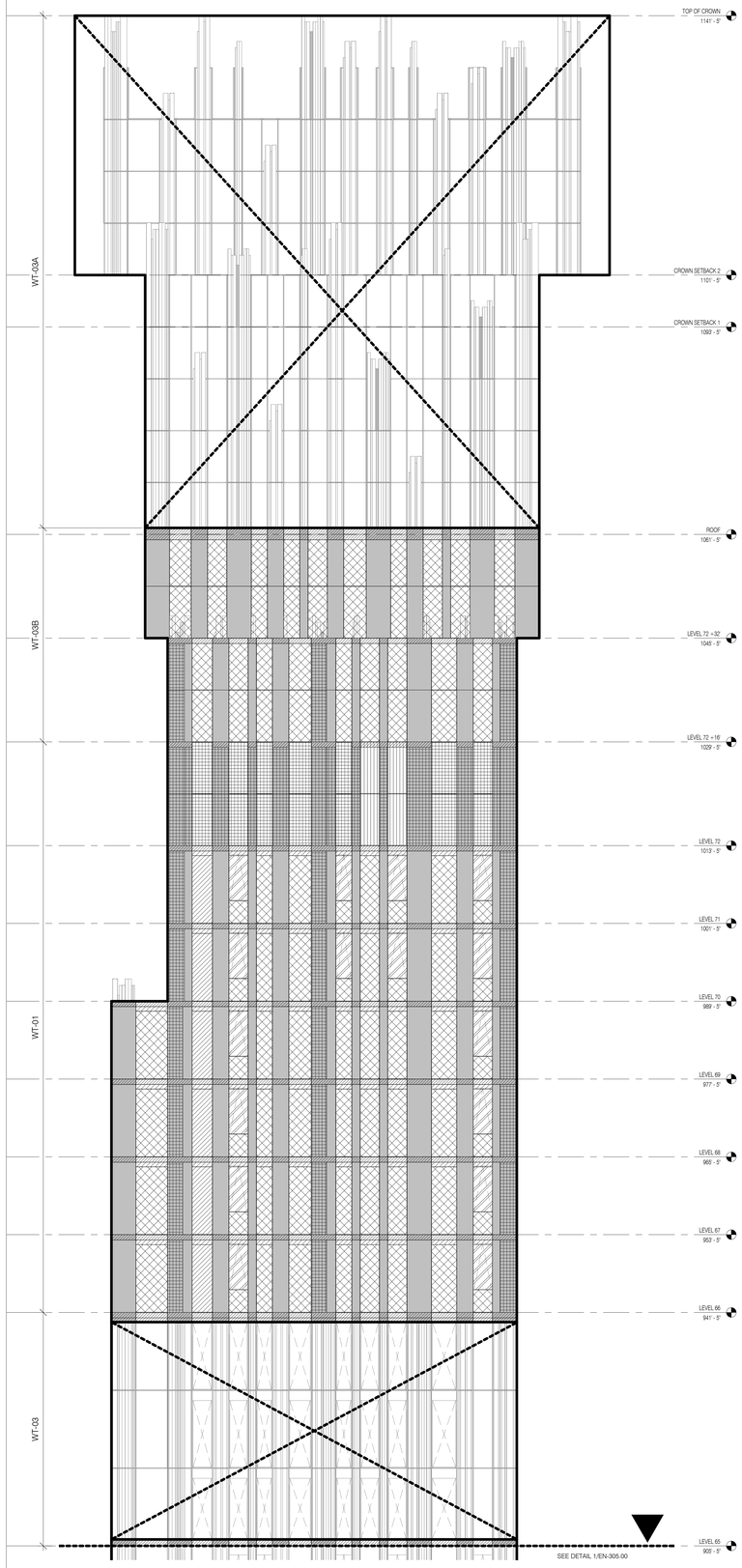
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

DRAWING NUMBER

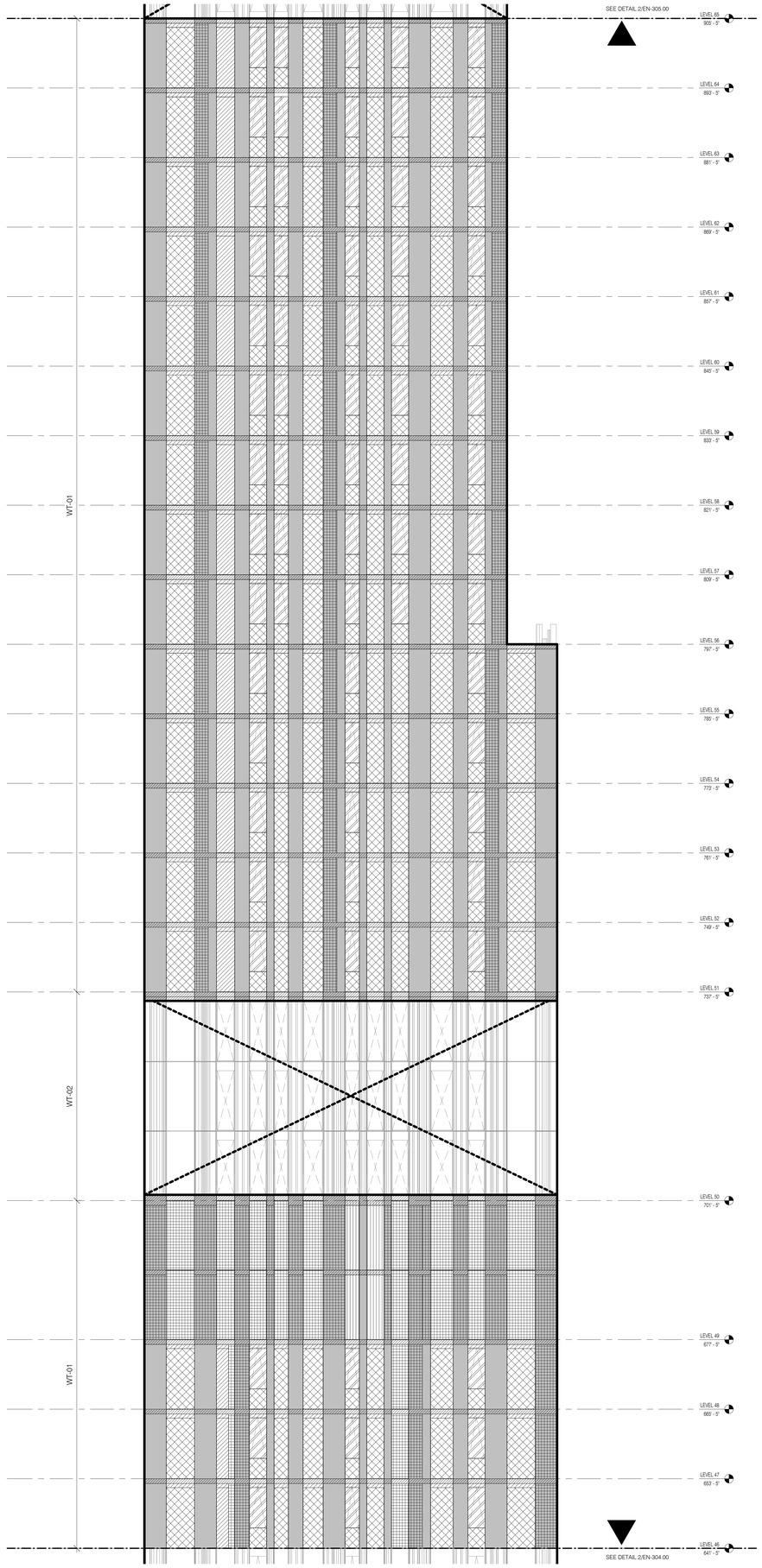
EN-304.00

DEPT OF BLDGS 320914338 Job Number

E350063335 Scan Code



TOWER ELEVATION - ENERGY MODEL TAKEOFF - NORTHEAST - 4 | 1/8" = 1'-0" | 2 EN-305.00



TOWER ELEVATION - ENERGY MODEL TAKEOFF - NORTHEAST - 3 | 1/8" = 1'-0" | 1 EN-305.00

ENERGY MODEL AREA TAKEOFF - NORTHEAST ELEVATION

HATCH	TYPE	AREA
	A Opaque Panel (Metal Framed)	21901 SF
	B Opaque Metal Panel @ Mass Wall (Slab)	2635 SF
	C Opaque Metal Panel @ Mass Wall (Column)	9366 SF
	D Shadow Box (Metal Framed)	3019 SF
	E Small Shadowbox @ Mass Wall	2299 SF
	F Large Shadowbox @ Mass Wall	4059 SF
	G Fenestration - Fixed Vision Glass	19351 SF
	H Fenestration - Operable Window	5400 SF
	I Fenestration - Glass Operable Door	126 SF
	J Louver	459 SF

PROFESSIONAL'S STATEMENT

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DEVELOPER
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104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.5000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-5540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315-6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK EGINNEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
590 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7500

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BURO HAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lothian TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4090

9 DEKALB AVE

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NEW YORK, NY 11201

SITE DIAGRAM

07/15/16 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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NOT FOR CONSTRUCTION

DRAWING TITLE

TOWER ELEVATIONS - EN TAKEOFF -NORTHEAST - B

SEAL & SIGNATURE

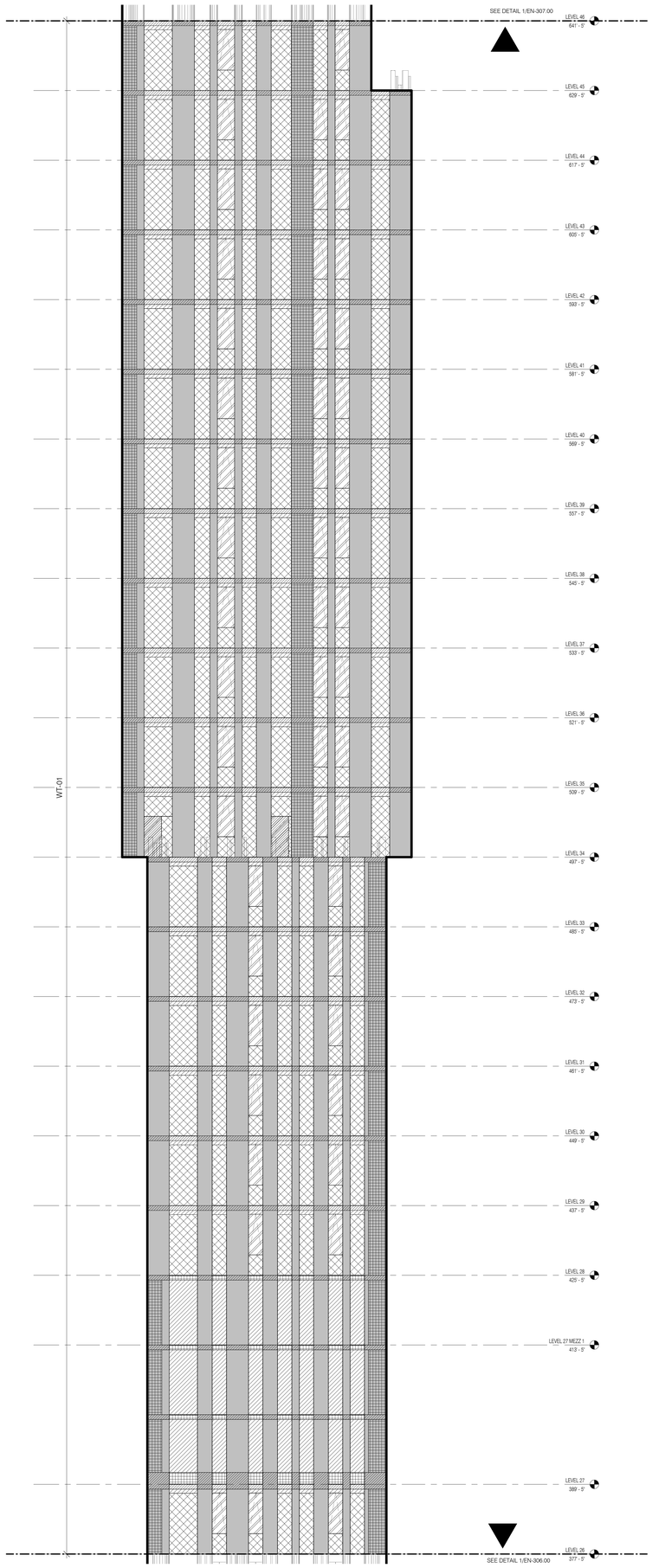
STATE OF NEW YORK — LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

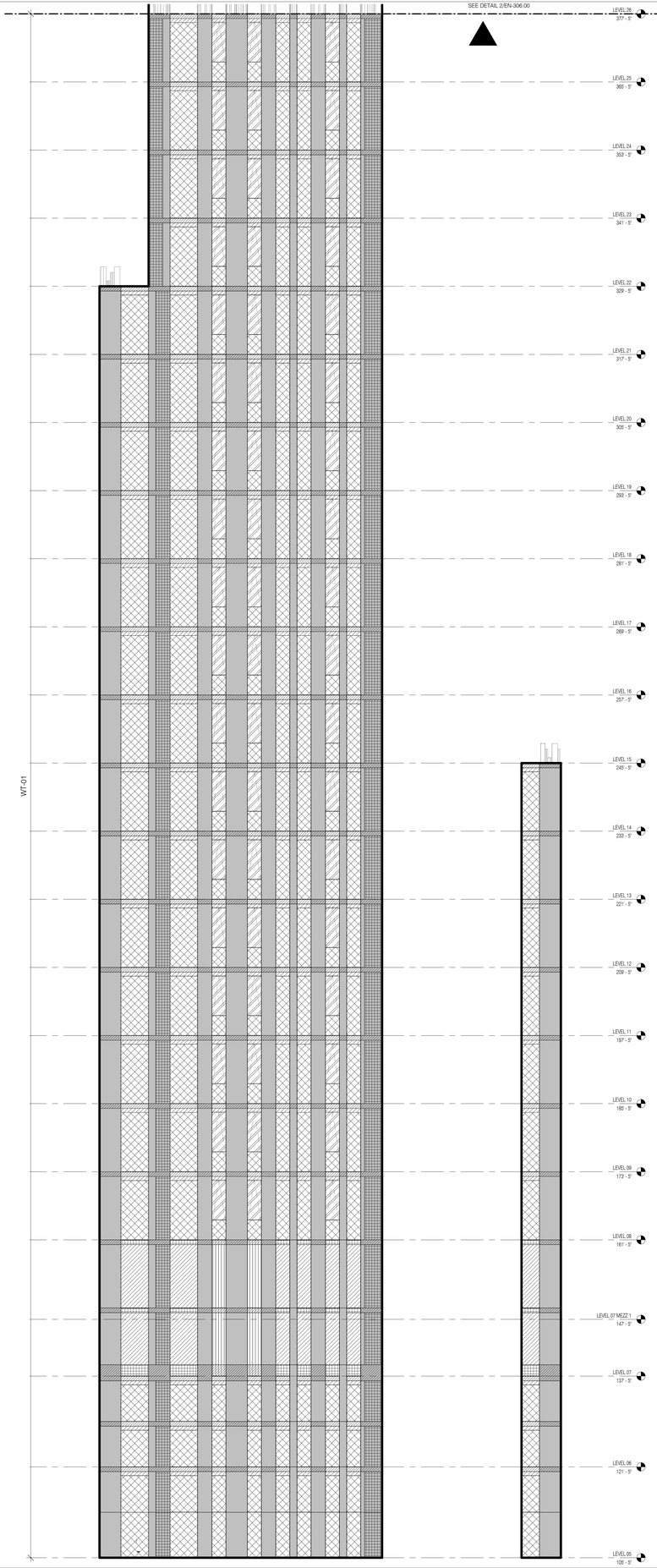
DRAWING NUMBER

EN-305.00

DEPT OF BLDGS 320914338 Job Number
E320456555 Scan Code



TOWER ELEVATION - ENERGY MODEL TAKEOFF - SOUTHEAST - 2 | 1/8" = 1'-0" | 2 | EN-306.00



TOWER ELEVATION - ENERGY MODEL TAKEOFF - SOUTHEAST - 1 | 1/8" = 1'-0" | 1 | EN-306.00

ENERGY MODEL AREA TAKEOFF - SOUTHEAST ELEVATION

HATCH	TYPE	AREA
	A Opaque Panel (Metal Framed)	13966 SF
	B Opaque Metal Panel @ Mass Wall (Slab)	1593 SF
	C Opaque Metal Panel @ Mass Wall (Column)	4872 SF
	D Shadow Box (Metal Framed)	2127 SF
	E Small Shadowbox @ Mass Wall	1336 SF
	F Large Shadowbox @ Mass Wall	1018 SF
	G Fenestration - Fixed Vision Glass	12536 SF
	H Fenestration - Operable Window	2696 SF
	I Fenestration - Glass Operable Door	63 SF
	J Louver	102 SF

PROFESSIONAL'S STATEMENT

TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THIS APPLICATION IS IN COMPLIANCE WITH THE 2014 NYCECC VIA APPLICATION OF ASHRAE 90.1-2010 AS MODIFIED BY APPENDIX A.

BUILDING DEPARTMENT NOTES

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.5000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
250 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
130 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES ARCHITECTURAL PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
196 ANDS STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
560 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
260 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
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9 DEKALB AVE

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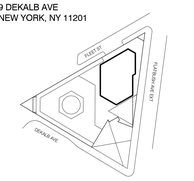

SITE DIAGRAM

07/15/16 DOB FILING SET

DATE	ISSUE	NO	DATE	REVISION

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DRAWING TITLE

TOWER ELEVATIONS - EN TAKEOFF - SOUTHEAST - A

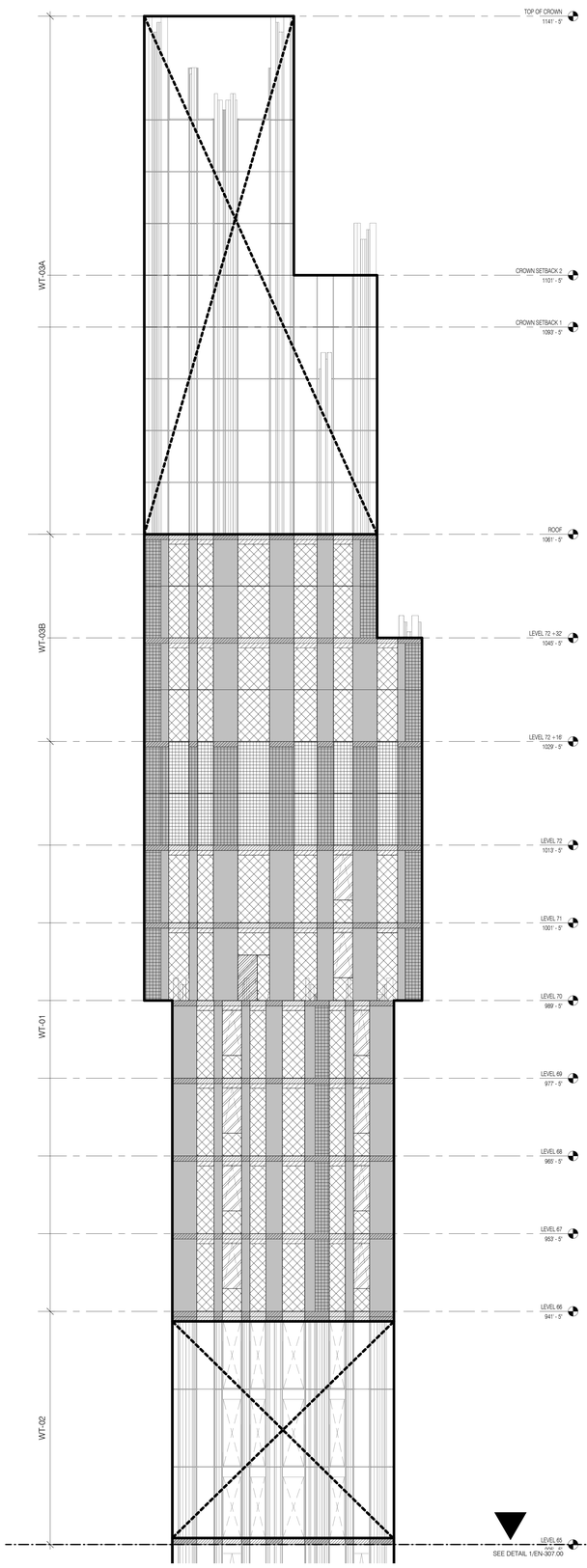
SEAL & SIGNATURE

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

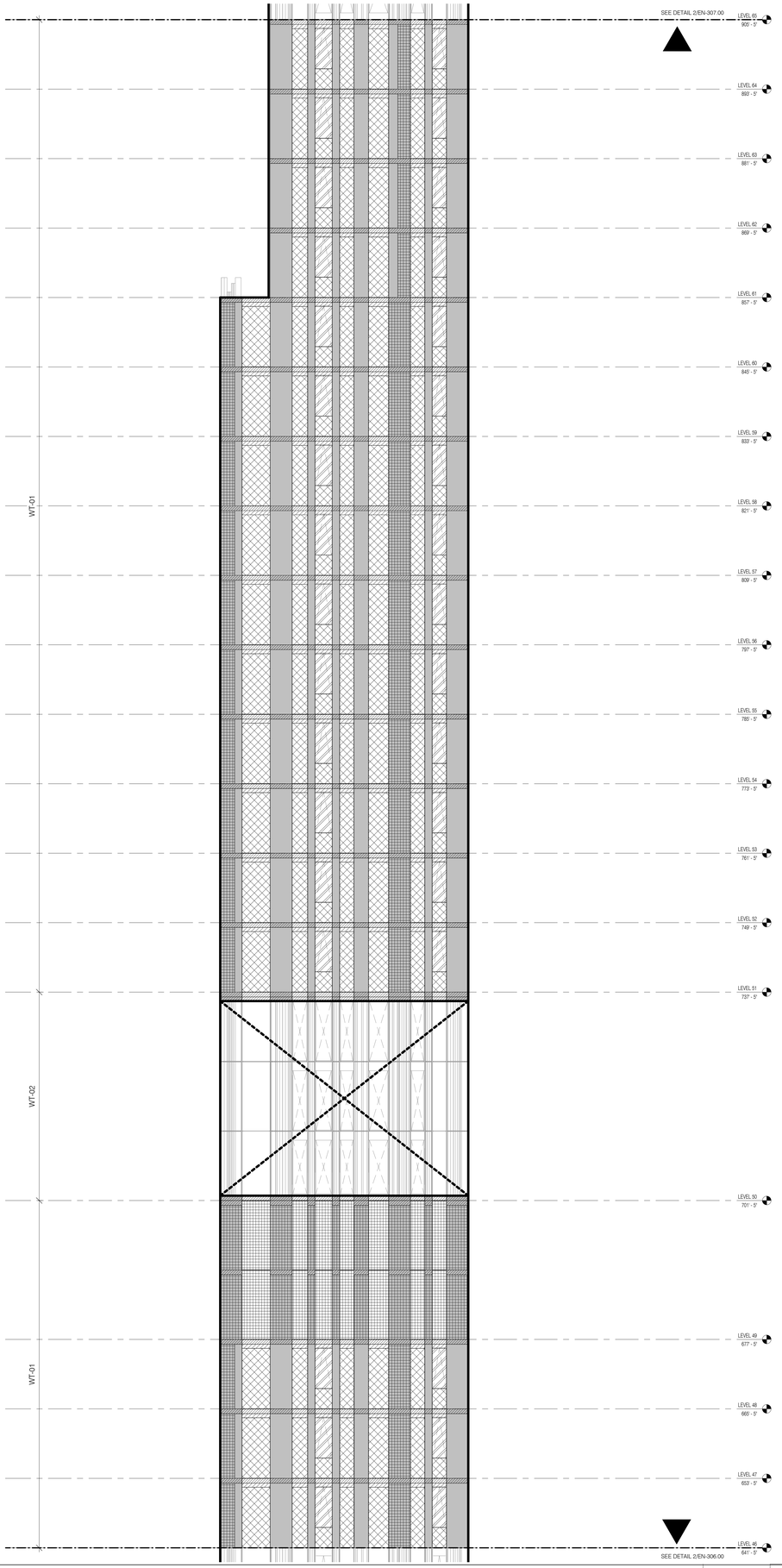
DRAWING NUMBER

EN-306.00

DEPT OF BLDGS 320014338 Job Number
EN-307.00 Sheet Code



TOWER ELEVATION - ENERGY MODEL TAKEOFF - SOUTHEAST - 4 | 1/8" = 1'-0" | 2 EN-307.00



TOWER ELEVATION - ENERGY MODEL TAKEOFF - SOUTHEAST - 3 | 1/8" = 1'-0" | 1 EN-307.00

ENERGY MODEL AREA TAKEOFF - SOUTHEAST ELEVATION

HATCH	TYPE	AREA
	A Opaque Panel (Metal Framed)	13966 SF
	B Opaque Metal Panel @ Mass Wall (Slab)	1593 SF
	C Opaque Metal Panel @ Mass Wall (Column)	4872 SF
	D Shadow Box (Metal Framed)	2127 SF
	E Small Shadowbox @ Mass Wall	1336 SF
	F Large Shadowbox @ Mass Wall	1018 SF
	G Fenestration - Fixed Vision Glass	12536 SF
	H Fenestration - Operable Window	2696 SF
	I Fenestration - Glass Operable Door	63 SF
	J Louver	102 SF

PROFESSIONAL'S STATEMENT

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 11TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 44TH STREET
NEW YORK, NY 10017
tel 212.687.6888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9628

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
135 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7500

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
330 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4390

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NEW YORK, NY 11201

SITE DIAGRAM

07/15/16 DOB FILING SET

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DRAWING TITLE

TOWER ELEVATIONS - EN TAKEOFF - SOUTHEAST - B

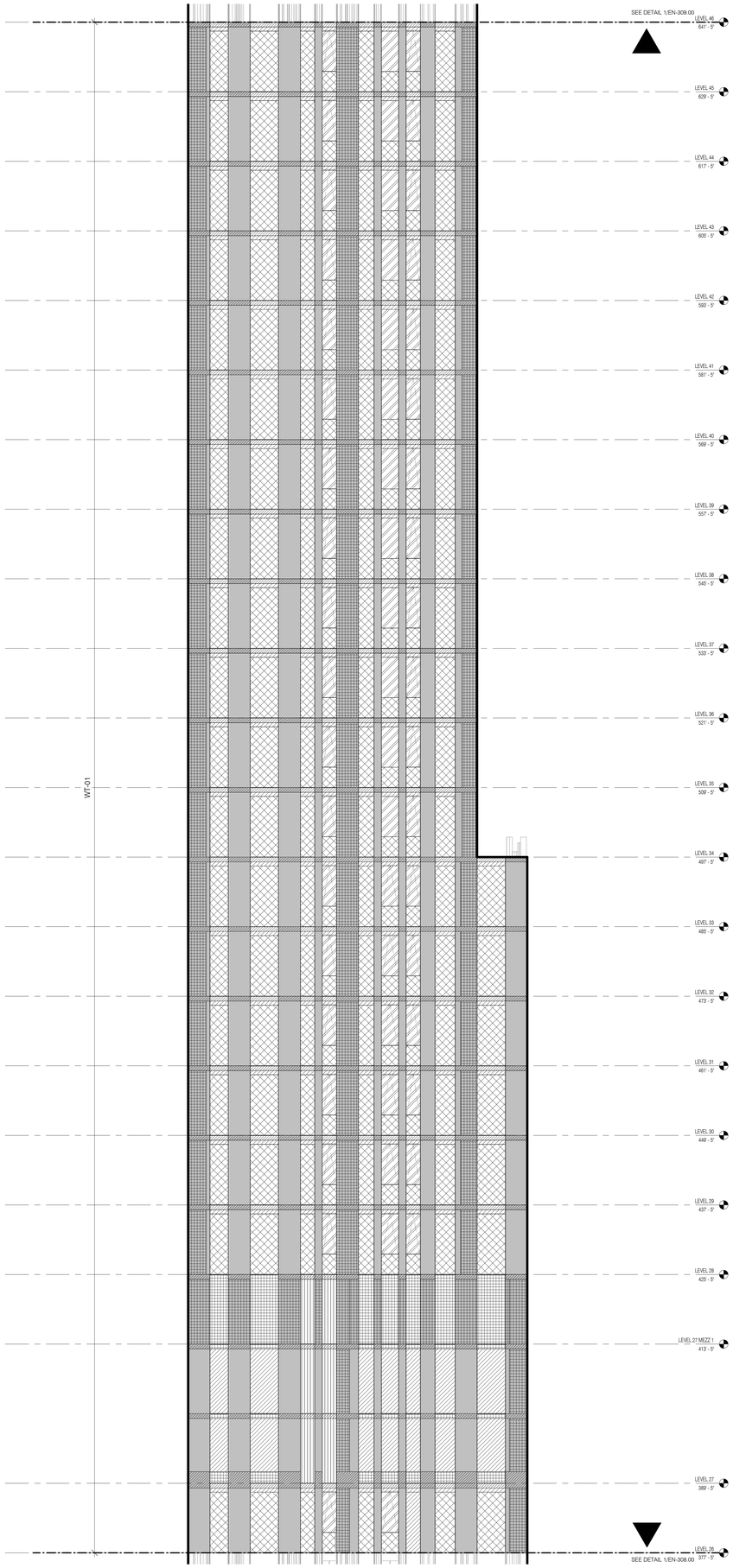
SEAL & SIGNATURE

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

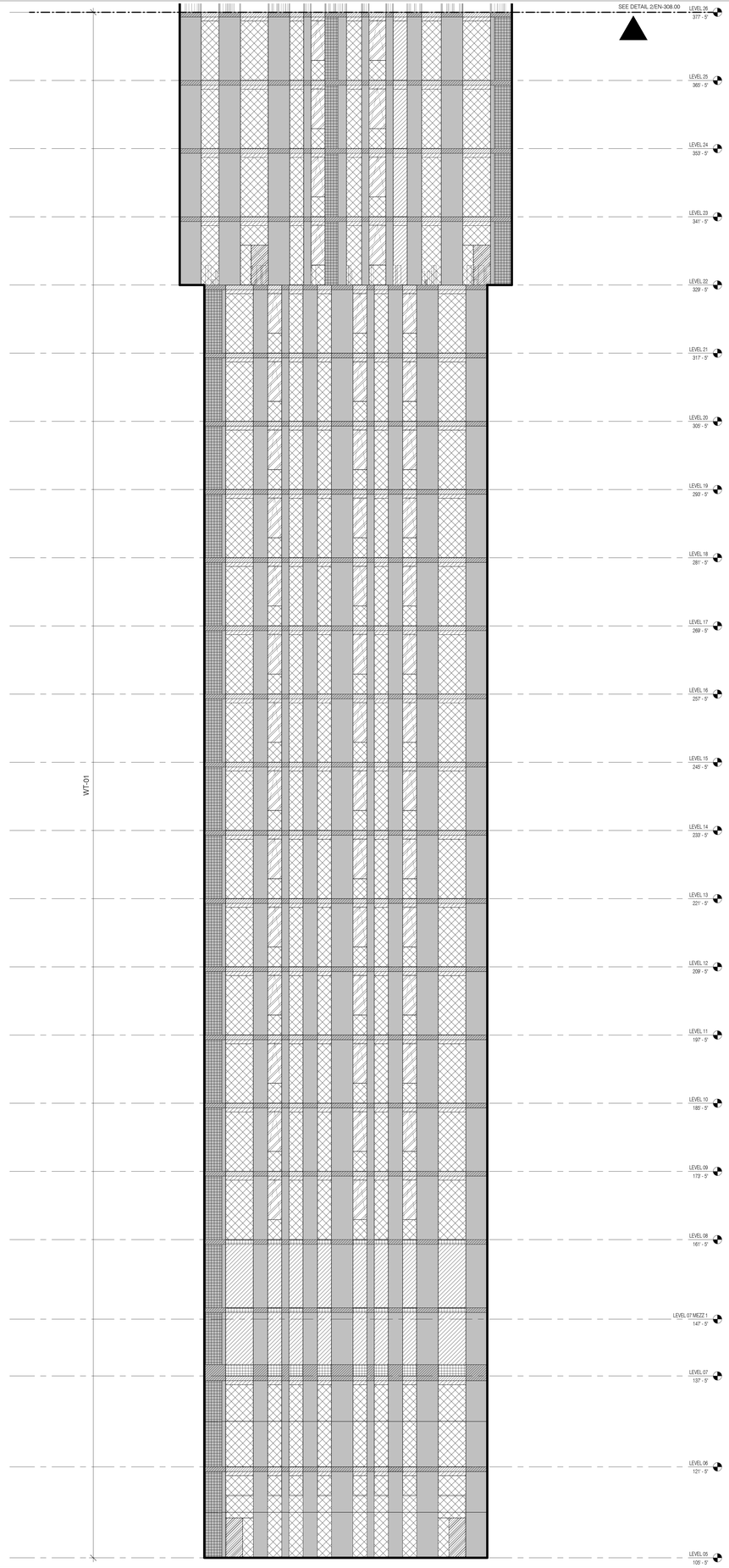
DRAWING NUMBER

EN-307.00

DEPT OF BLDGS 320914338 Job Number
E 5445357631 Scan Code



TOWER ELEVATION - ENERGY MODEL TAKEOFF - SOUTH - 2 | 1/8" = 1'-0" | 2 EN-308.00



TOWER ELEVATION - ENERGY MODEL TAKEOFF - SOUTH - 1 | 1/8" = 1'-0" | 1 EN-308.00

ENERGY MODEL AREA TAKEOFF - SOUTH ELEVATION

HATCH	TYPE	AREA
	A Opaque Panel (Metal Framed)	15300 SF
	B Opaque Metal Panel @ Mass Wall (Slab)	1756 SF
	C Opaque Metal Panel @ Mass Wall (Column)	5187 SF
	D Shadow Box (Metal Framed)	2263 SF
	E Small Shadowbox @ Mass Wall	1487 SF
	F Large Shadowbox @ Mass Wall	1279 SF
	G Fenestration - Fixed Vision Glass	13971 SF
	H Fenestration - Operable Window	2724 SF
	I Fenestration - Glass Operable Door	127 SF
	J Louver	279 SF

PROFESSIONAL'S STATEMENT

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
130 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
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Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
tel 212.271.7500

VIDARIS

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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2225

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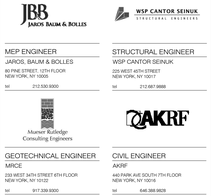

SITE DIAGRAM

07/15/16 DOB FILING SET

DATE	ISSUE	NO	DATE	REVISION

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DRAWING TITLE

TOWER ELEVATIONS - EN TAKEOFF - SOUTH - A

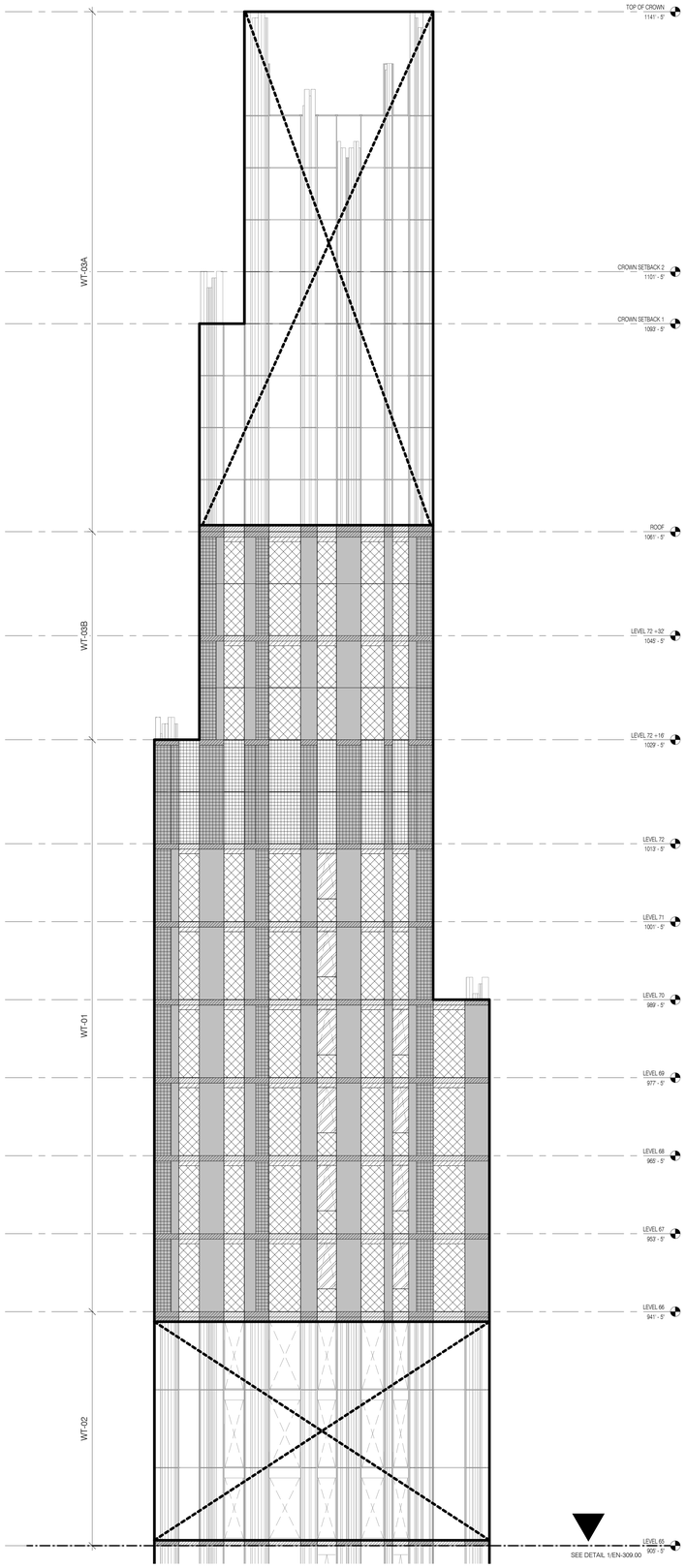
SEAL & SIGNATURE

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

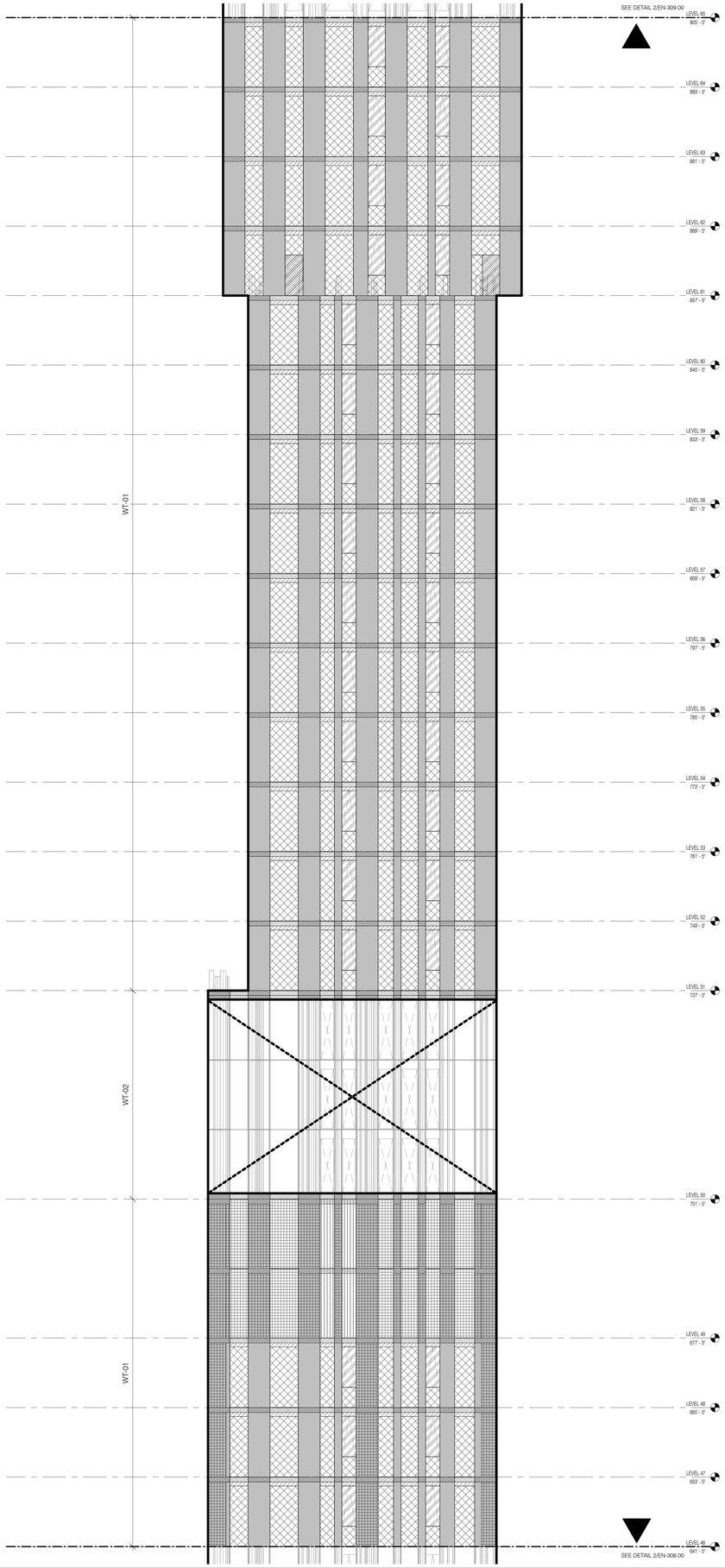
DRAWING NUMBER

EN-308.00

DEPT OF BLDGS 320014338 Job Number
E 5478453883 Scan Code



TOWER ELEVATION - ENERGY MODEL TAKEOFF - SOUTH - 4 | 1/8" = 1'-0" | 2 EN-309.00



TOWER ELEVATION - ENERGY MODEL TAKEOFF - SOUTH - 3 | 1/8" = 1'-0" | 1 EN-309.00

ENERGY MODEL AREA TAKEOFF - SOUTH ELEVATION		
HATCH	TYPE	AREA
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	G Fenestration - Fixed Vision Glass	13971 SF
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	J Louver	279 SF

PROFESSIONAL'S STATEMENT

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DEVELOPER
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shop

ARCHITECT
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JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
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WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
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NEW YORK, NY 10016
tel 646.388.9828

vda

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135 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES ARCHITECTURAL CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
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tel 212.759.6540

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NEW YORK, NY 10001
tel 212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
166 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

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SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
380 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.989.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2325

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TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.495.4290

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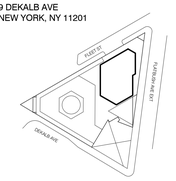
9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET

DATE	ISSUE	NO	DATE	REVISION

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DRAWING TITLE

TOWER ELEVATIONS - EN TAKEOFF - SOUTH - B

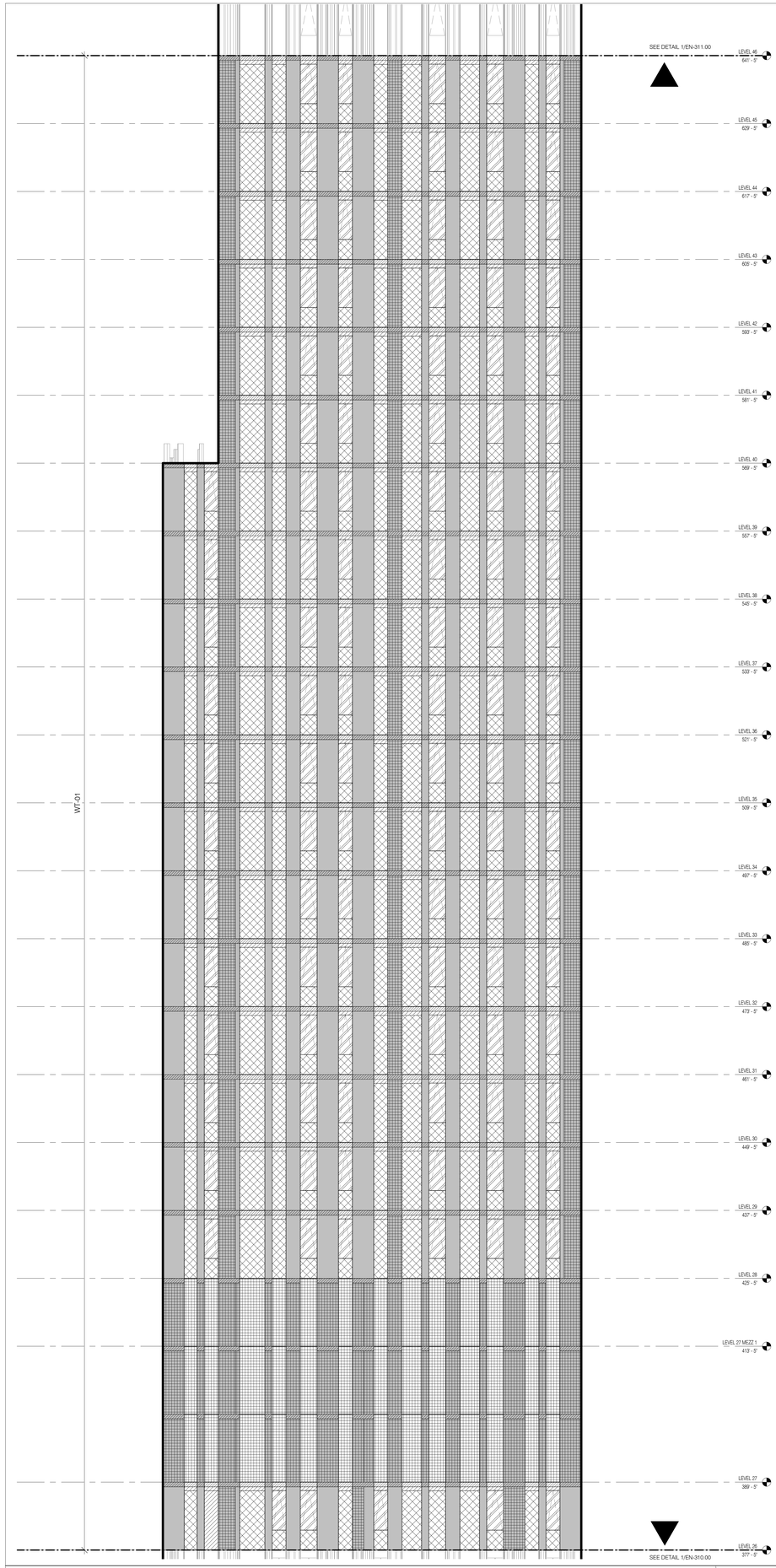
SEAL & SIGNATURE

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338

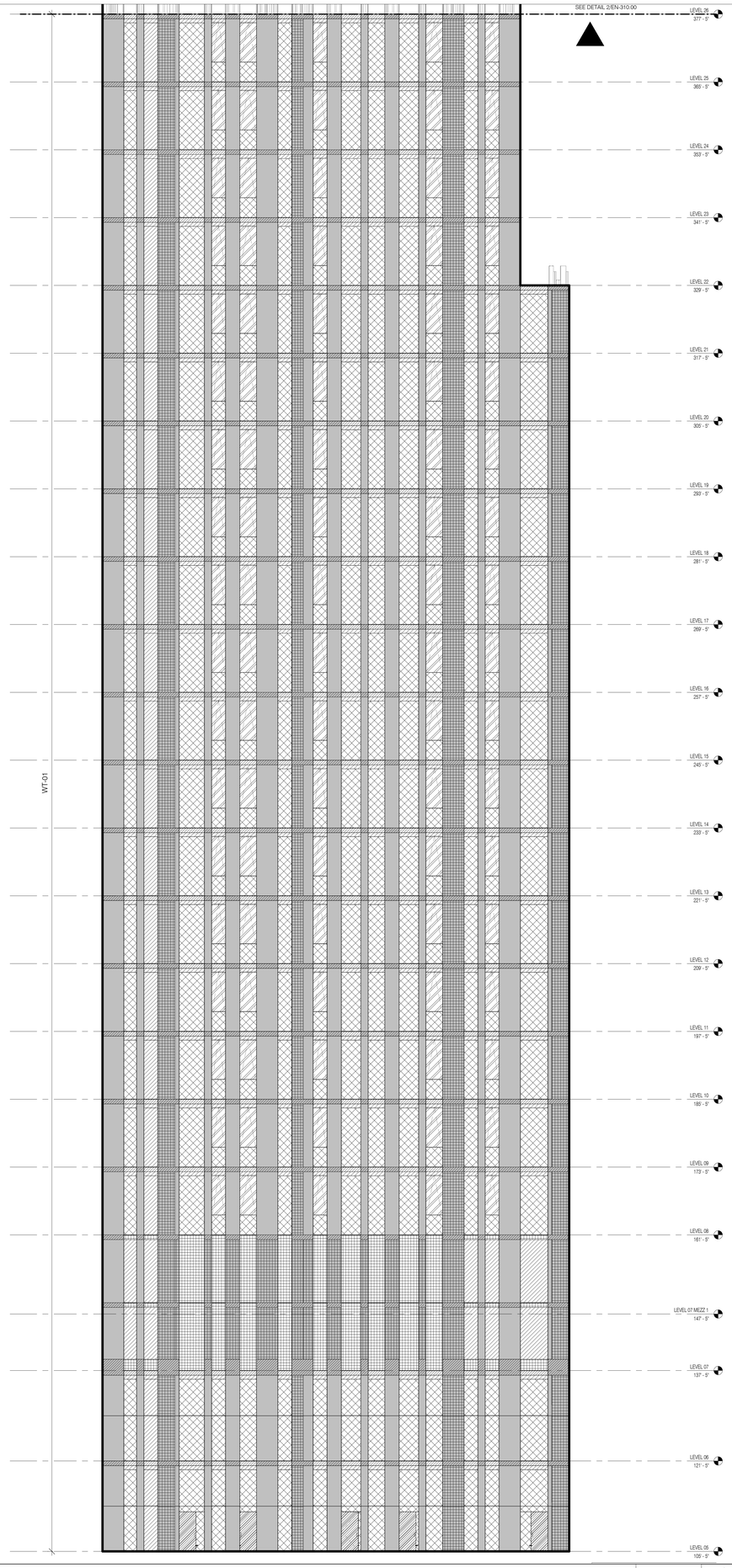
DRAWING NUMBER

EN-309.00

DEPT OF BLDGS 320914338 Job Number
E395953403002 Scan Code



TOWER ELEVATION - ENERGY MODEL TAKEOFF - SOUTHWEST - 2 | 1/8" = 1'-0" | 2 EN-310.00



TOWER ELEVATION - ENERGY MODEL TAKEOFF - SOUTHWEST - 1 | 1/8" = 1'-0" | 1 EN-310.00

ENERGY MODEL AREA TAKEOFF - SOUTHWEST ELEVATION

HATCH	TYPE	AREA
	A Opaque Panel (Metal Framed)	19157 SF
	B Opaque Metal Panel @ Mass Wall (Slab)	2339 SF
	C Opaque Metal Panel @ Mass Wall (Column)	9219 SF
	D Shadow Box (Metal Framed)	2917 SF
	E Small Shadowbox @ Mass Wall	2156 SF
	F Large Shadowbox @ Mass Wall	3226 SF
	G Fenestration - Fixed Vision Glass	18774 SF
	H Fenestration - Operable Window	5256 SF
	I Fenestration - Glass Operable Door	147 SF
	J Louver	83 SF

PROFESSIONAL'S STATEMENT

TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THIS APPLICATION IS IN COMPLIANCE WITH THE 2014 NYCECC VIA APPLICATION OF ASHRAE 90.1-2010 AS MODIFIED BY APPENDIX A.

BUILDING DEPARTMENT NOTES

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.5000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 48TH STREET
NEW YORK, NY 10017
tel 212.497.8888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9628

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315-6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
590 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7500

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BUROHAPPOLD ENGINEERING

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2225

TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
330 WESTCHESTER AVENUE
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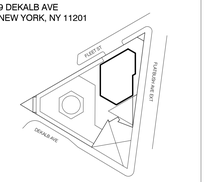

SITE DIAGRAM

07/15/16 DOB FILING SET

DATE	ISSUE	NO	DATE	REVISION

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DRAWING TITLE

TOWER ELEVATIONS - EN TAKEOFF - SOUTHWEST - A

SEAL & SIGNATURE

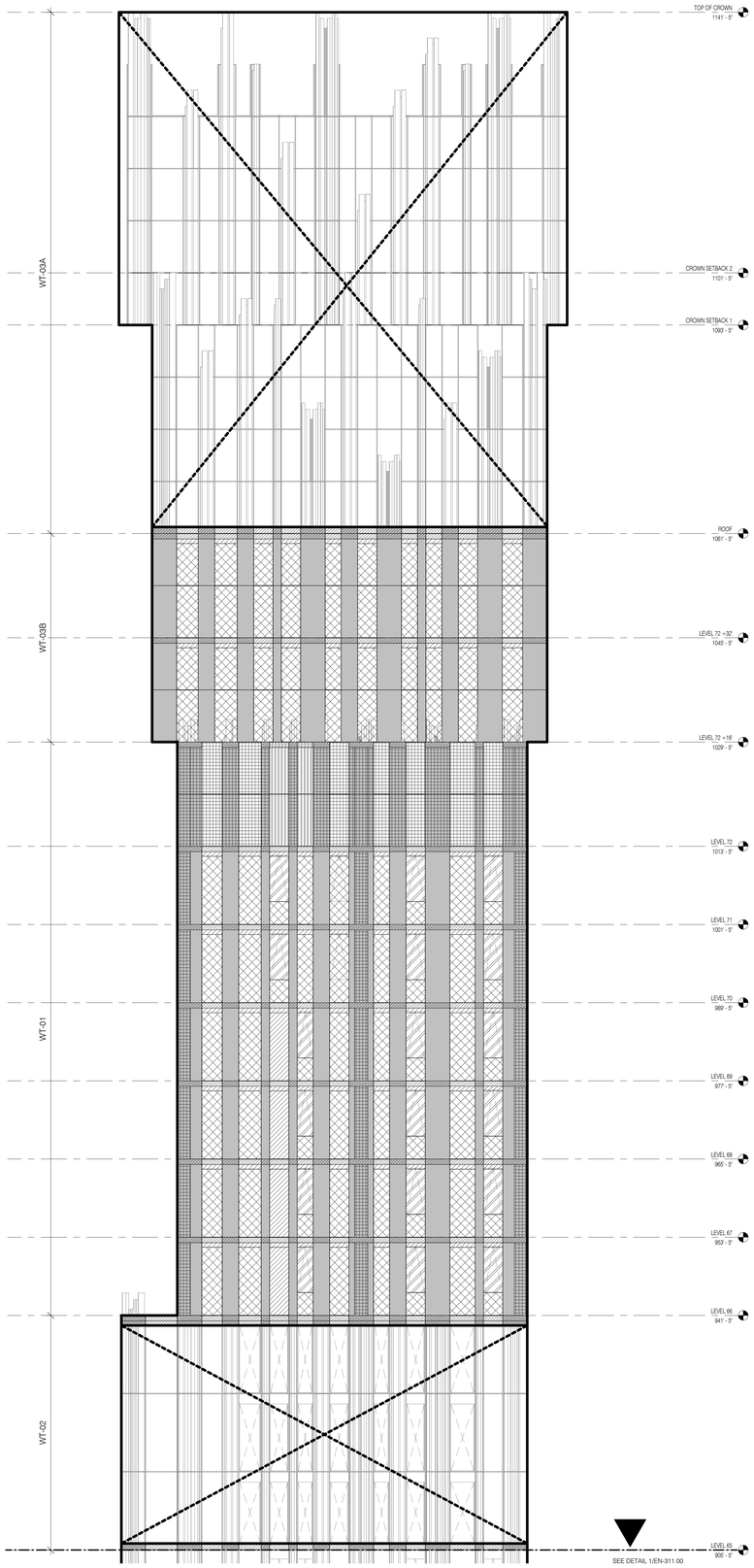
DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

DRAWING NUMBER

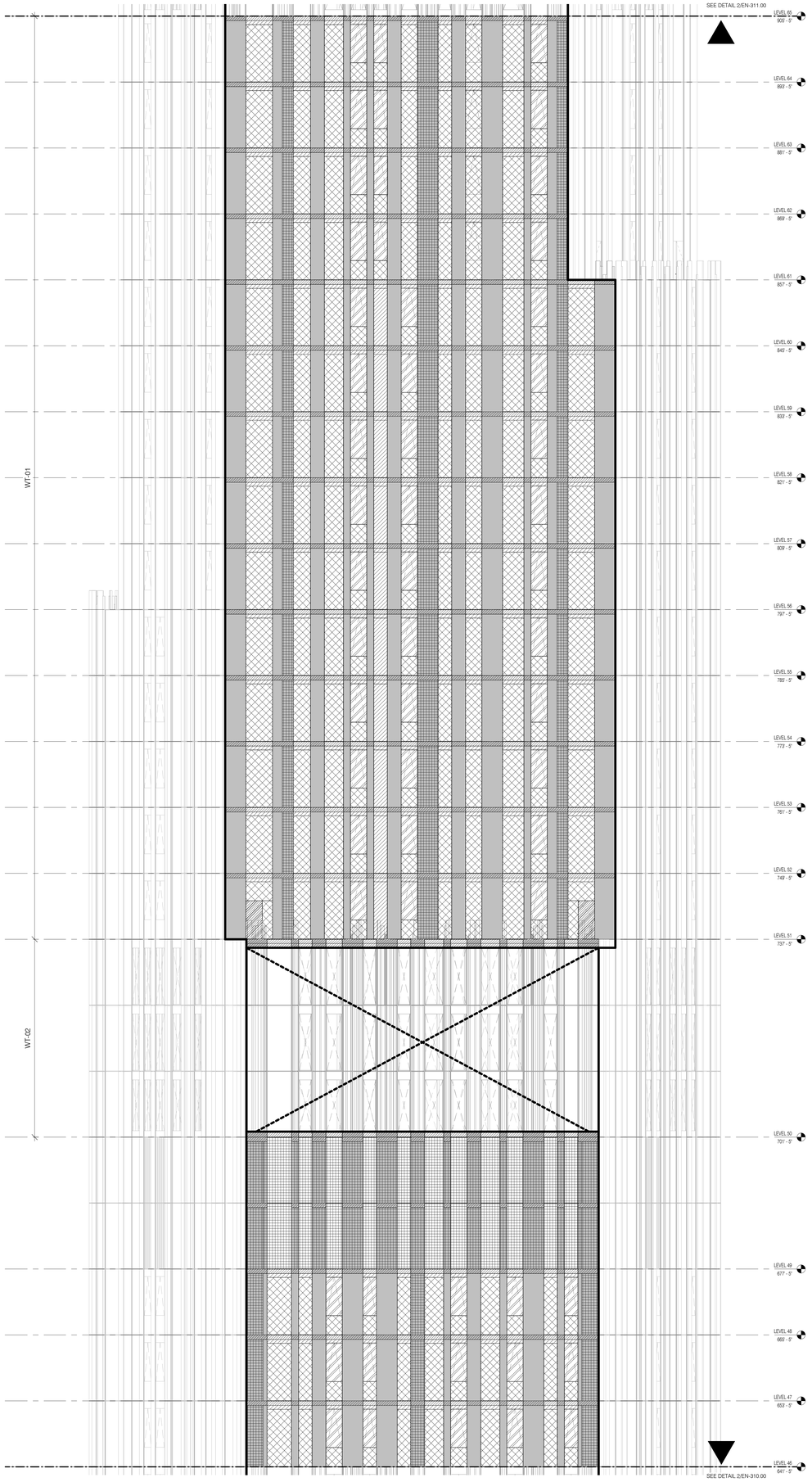
EN-310.00

DEPT OF BLDGS 320914338 Job Number

E1474633385 Scan Code



TOWER ELEVATION - ENERGY MODEL TAKEOFF - SOUTHWEST - 4 | 1/8" = 1'-0" | 2 EN-311.00



TOWER ELEVATION - ENERGY MODEL TAKEOFF - SOUTHWEST - 3 | 1/8" = 1'-0" | 1 EN-311.00

ENERGY MODEL AREA TAKEOFF - SOUTHWEST ELEVATION

HATCH	TYPE	AREA
	A Opaque Panel (Metal Framed)	19157 SF
	B Opaque Metal Panel @ Mass Wall (Slab)	2339 SF
	C Opaque Metal Panel @ Mass Wall (Column)	9219 SF
	D Shadow Box (Metal Framed)	2917 SF
	E Small Shadowbox @ Mass Wall	2156 SF
	F Large Shadowbox @ Mass Wall	3226 SF
	G Fenestration - Fixed Vision Glass	18774 SF
	H Fenestration - Operable Window	5256 SF
	I Fenestration - Glass Operable Door	147 SF
	J Louver	83 SF

PROFESSIONAL'S STATEMENT

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.687.9888

GEOTECHNICAL ENGINEER
MRCE
230 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
130 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-6540

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

BMU ENGINEER
ENTEK ENGINEERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

BUILDING ENERGY
VIDARIS
350 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

POOL
TRACE POOL DESIGN
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WHITE PLAINS, NY 10604
tel 914.495.4290

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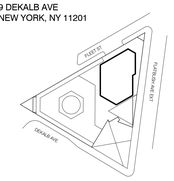
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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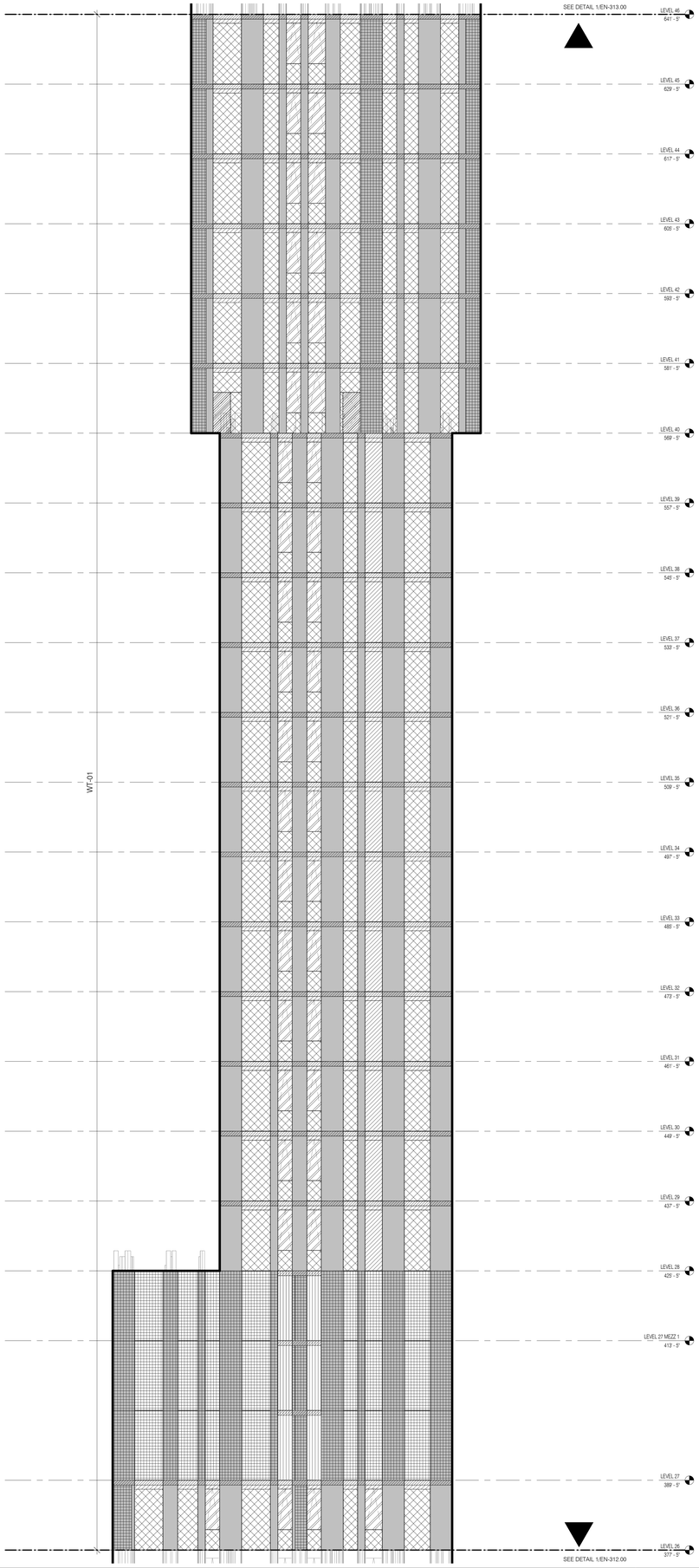
DRAWING TITLE

TOWER ELEVATIONS - EN TAKEOFF - SOUTHWEST - B

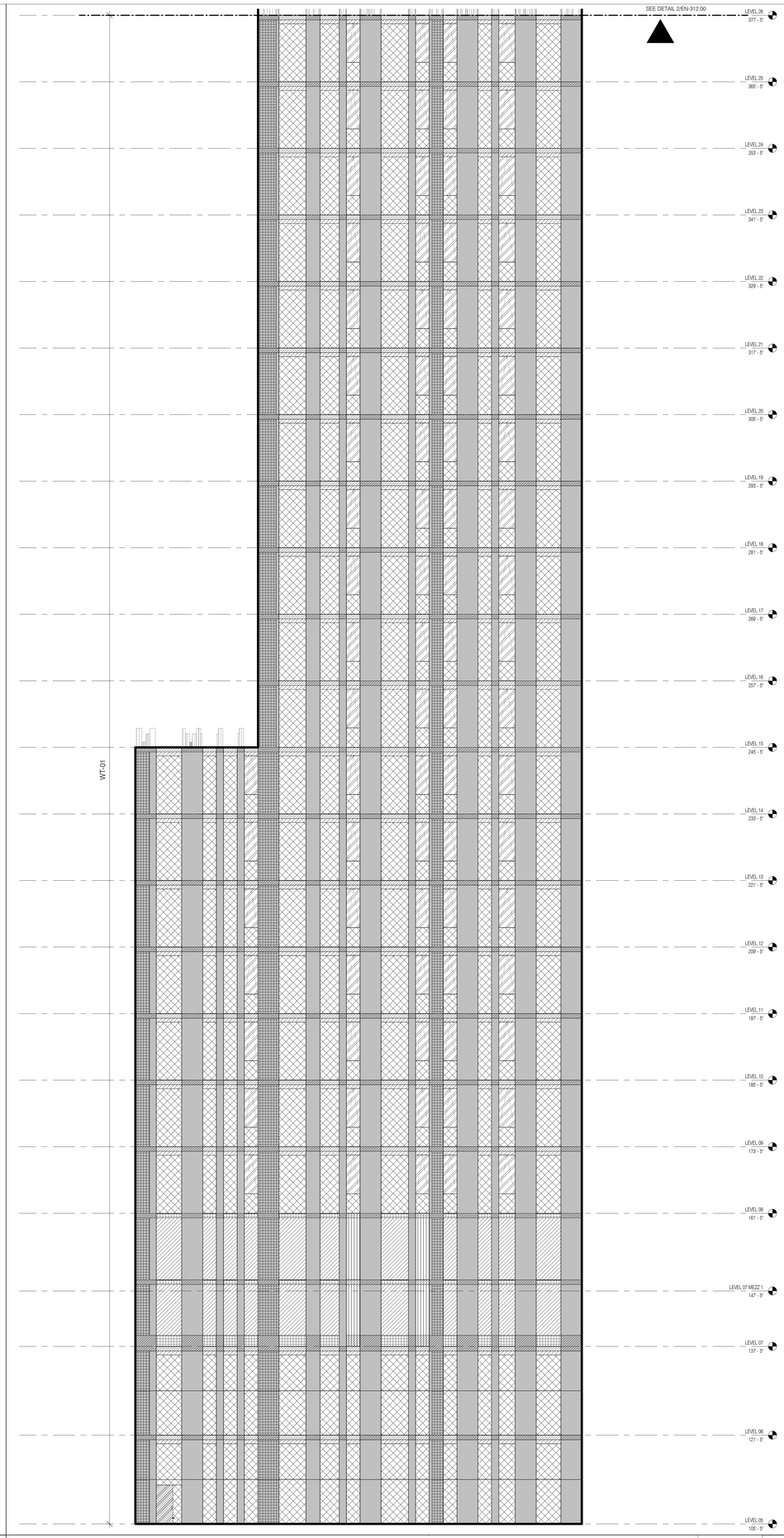
SEAL & SIGNATURE

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	EN-311.00

DEPT OF BLDGS 320914338 Job Number
E1311560442 Scan Code



TOWER ELEVATION - ENERGY MODEL TAKEOFF - NORTHWEST - 2 | 1/8" = 1'-0" | 2 EN-312.00



TOWER ELEVATION - ENERGY MODEL TAKEOFF - NORTHWEST - 1 | 1/8" = 1'-0" | 1 EN-312.00

ENERGY MODEL AREA TAKEOFF - NORTHWEST ELEVATION

HATCH	TYPE	AREA
	A Opaque Panel (Metal Framed)	14536 SF
	B Opaque Metal Panel @ Mass Wall (Slab)	1636 SF
	C Opaque Metal Panel @ Mass Wall (Column)	6088 SF
	D Shadow Box (Metal Framed)	2308 SF
	E Small Shadowbox @ Mass Wall	1583 SF
	F Large Shadowbox @ Mass Wall	1861 SF
	G Fenestration - Fixed Vision Glass	14206 SF
	H Fenestration - Operable Window	2902 SF
	I Fenestration - Glass Operable Door	106 SF
	J Louver	346 SF

PROFESSIONAL'S STATEMENT

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.667.6868

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9628

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE,SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759-6540

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LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
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Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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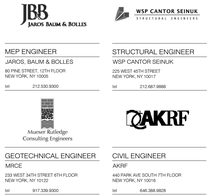

SITE DIAGRAM

07/15/16 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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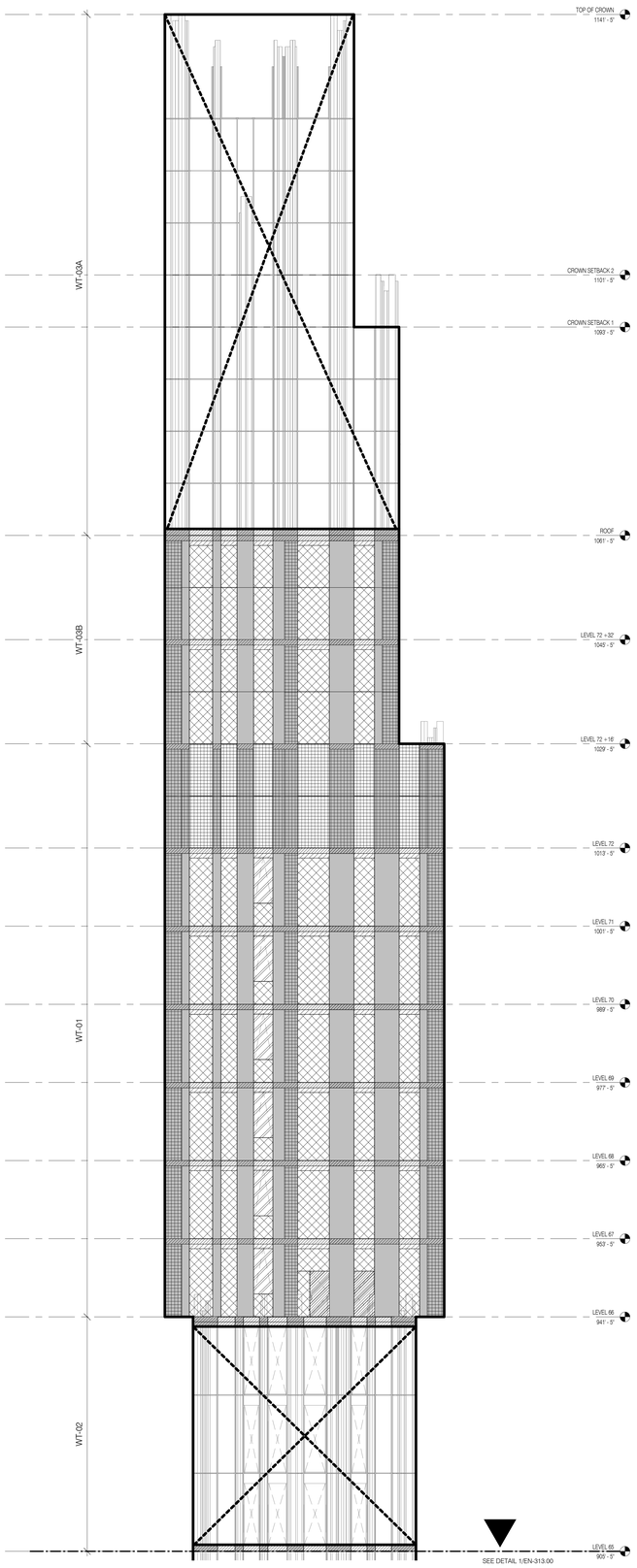
DRAWING TITLE

TOWER ELEVATIONS - EN TAKEOFF - NORTHWEST - A

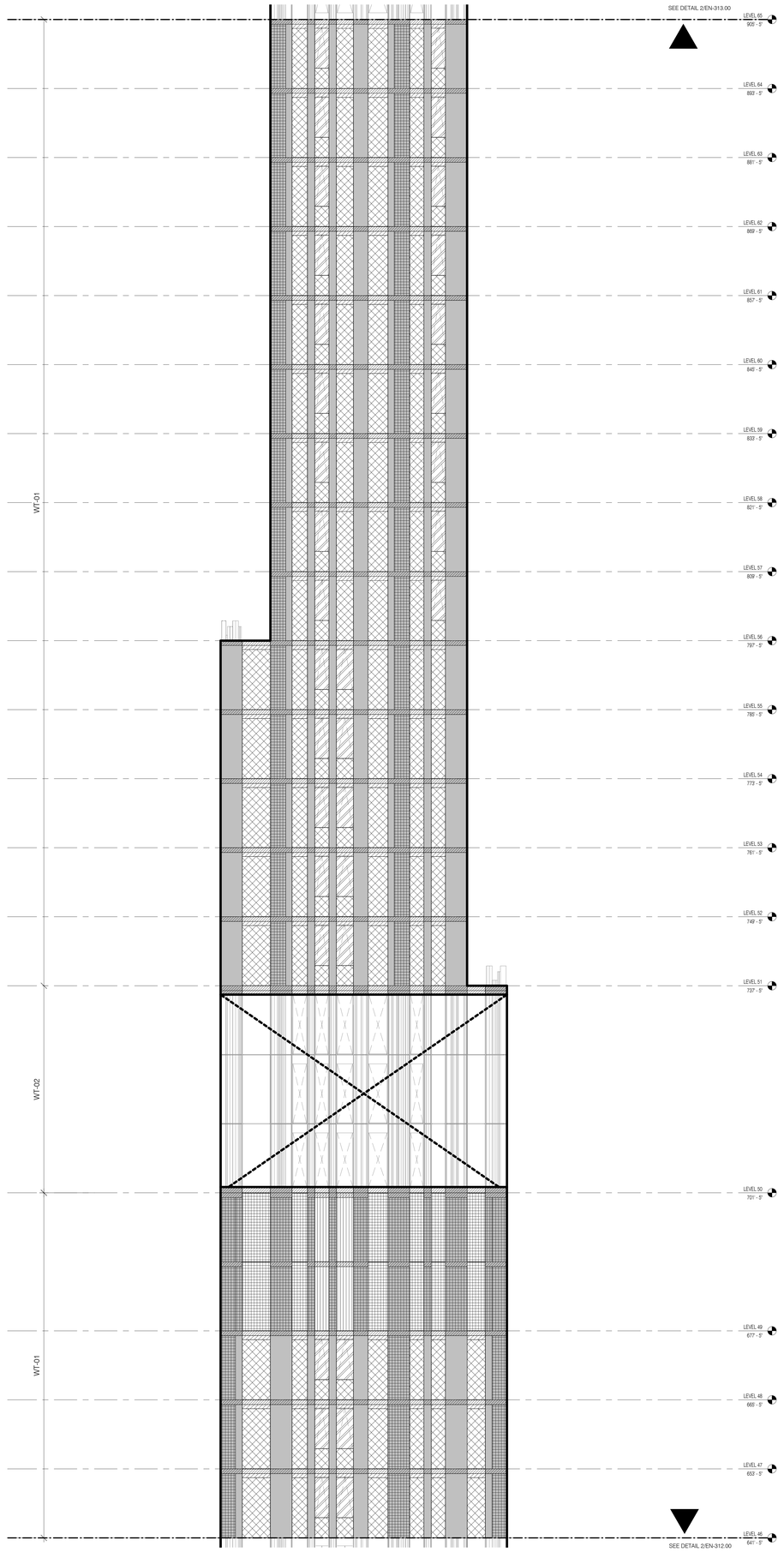
SEAL & SIGNATURE

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338
DRAWING NUMBER	EN-312.00

DEPT OF BLDGS 320914338 Job Number
E 320924439D0 Scan Code



TOWER ELEVATION - ENERGY MODEL TAKEOFF - NORTHWEST - 4 | 1/8" = 1'-0" | 2 EN-313.00



TOWER ELEVATION - ENERGY MODEL TAKEOFF - NORTHWEST - 3 | 1/8" = 1'-0" | 1 EN-313.00

ENERGY MODEL AREA TAKEOFF - NORTHWEST ELEVATION		
HATCH	TYPE	AREA
	A Opaque Panel (Metal Framed)	14536 SF
	B Opaque Metal Panel @ Mass Wall (Slab)	1636 SF
	C Opaque Metal Panel @ Mass Wall (Column)	6088 SF
	D Shadow Box (Metal Framed)	2308 SF
	E Small Shadowbox @ Mass Wall	1583 SF
	F Large Shadowbox @ Mass Wall	1861 SF
	G Fenestration - Fixed Vision Glass	14206 SF
	H Fenestration - Operable Window	2902 SF
	I Fenestration - Glass Operable Door	106 SF
	J Louver	346 SF

PROFESSIONAL'S STATEMENT

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DEVELOPER
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NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
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232 BROADWAY, 11TH FLOOR
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JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
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MRCE
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NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9828

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
133 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
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JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
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tel 212.674.6500

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LONGMAN LINDSEY
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NEW YORK, NY 10018
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HACKENSACK, NJ 07601
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VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
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BURO HAPPOLD
100 BROADWAY
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tel 212.334.2025

Lathrop TRACE POOL DESIGN

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WHITE PLAINS, NY 10604
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9 DEKALB AVE

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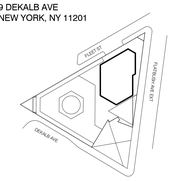
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH MAY NOT BE USED FOR OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR COMPLETION OF THIS PROJECT BY OTHERS.

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DRAWING TITLE

TOWER ELEVATIONS - EN TAKEOFF - NORTHWEST - B

SEAL & SIGNATURE

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	EN-313.00

DEPT OF BLDGS3091433B Job Number

E1X1A2513488 Scan Code

PROFESSIONAL'S STATEMENT

TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THIS APPLICATION IS IN COMPLIANCE WITH THE 2014 NYCECC VIA APPLICATION OF ASHRAE 90.1-2010 AS MODIFIED BY APPENDIX A.

BUILDING DEPARTMENT NOTES

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ENERGY MODEL AREA TAKEOFF - WT-07 - ROOF - EAST

HATCH	WALL TYPE	TYPE	AREA
	WT-07	A Opaque Metal Panel (Metal Framed)	92 SF

ENERGY MODEL AREA TAKEOFF - WT-07 - ROOF - NORTH

HATCH	WALL TYPE	TYPE	AREA
	WT-07	A Opaque Metal Panel (Metal Framed)	172 SF
	WT-07	M Opaque Operable Door	40 SF

ENERGY MODEL AREA TAKEOFF - WT-07 - ROOF - SOUTH

HATCH	WALL TYPE	TYPE	AREA
	WT-07	A Opaque Metal Panel (Metal Framed)	212 SF

ENERGY MODEL AREA TAKEOFF - WT-07 - ROOF - WEST

HATCH	WALL TYPE	TYPE	AREA
	WT-07	A Opaque Metal Panel (Metal Framed)	92 SF

TOWER ELEVATION - WT-07 - ROOF - WEST - EN TAKEOFF | 1/8" = 1'-0" | 12 | EN-314.00

TOWER ELEVATION - WT-07 - ROOF - SOUTH - EN TAKEOFF | 1/8" = 1'-0" | 11 | EN-314.00

TOWER ELEVATION - WT-07 - ROOF - NORTH - EN TAKEOFF | 1/8" = 1'-0" | 10 | EN-314.00

TOWER ELEVATION - WT-07 - ROOF - EAST - EN TAKEOFF | 1/8" = 1'-0" | 9 | EN-314.00

ENERGY MODEL AREA TAKEOFF - WT-07 - LEVEL 65 - EAST

HATCH	WALL TYPE	TYPE	AREA
	WT-07	A Opaque Metal Panel (Metal Framed)	1287 SF

ENERGY MODEL AREA TAKEOFF - WT-07 - LEVEL 65 -NORTH

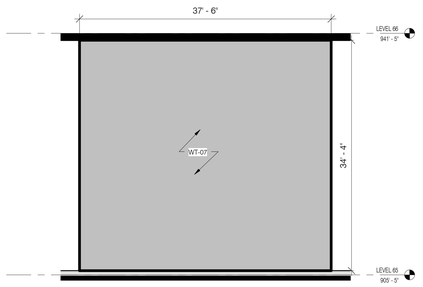
HATCH	WALL TYPE	TYPE	AREA
	WT-07	A Opaque Metal Panel (Metal Framed)	951 SF
	WT-07	M Opaque Operable Door	20 SF

ENERGY MODEL AREA TAKEOFF - WT-07 - LEVEL 65 - SOUTH

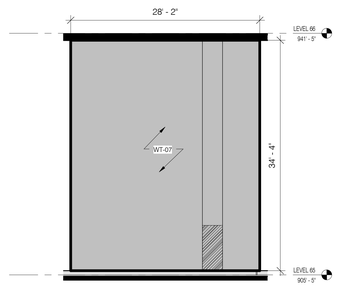
HATCH	WALL TYPE	TYPE	AREA
	WT-07	A Opaque Metal Panel (Metal Framed)	947 SF
	WT-07	M Opaque Operable Door	20 SF

ENERGY MODEL AREA TAKEOFF - WT-07 - LEVEL 65 - WEST

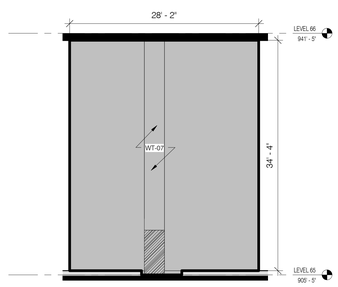
HATCH	WALL TYPE	TYPE	AREA
	WT-07	A Opaque Metal Panel (Metal Framed)	1287 SF



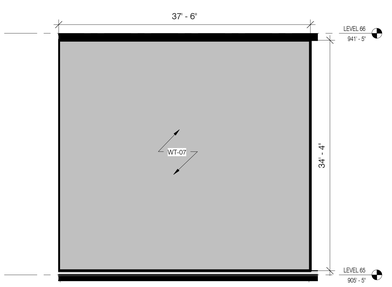
TOWER ELEVATION - WT-07 - LEVEL 65 - WEST - EN TAKEOFF | 1/8" = 1'-0" | 8 | EN-314.00



TOWER ELEVATION - WT-07 - LEVEL 65 - SOUTH - EN TAKEOFF | 1/8" = 1'-0" | 7 | EN-314.00



TOWER ELEVATION - WT-07 - LEVEL 65 - NORTH - EN TAKEOFF | 1/8" = 1'-0" | 6 | EN-314.00



TOWER ELEVATION - WT-07 - LEVEL 65 - EAST - EN TAKEOFF | 1/8" = 1'-0" | 5 | EN-314.00

ENERGY MODEL AREA TAKEOFF - WT-07 - LEVEL 50 - EAST

HATCH	WALL TYPE	TYPE	AREA
	WT-07	A Opaque Metal Panel (Metal Framed)	1287 SF

ENERGY MODEL AREA TAKEOFF - WT-07 - LEVEL 50 - NORTH

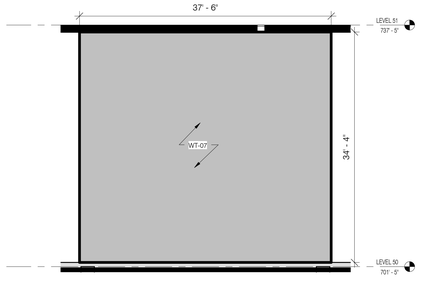
HATCH	WALL TYPE	TYPE	AREA
	WT-07	A Opaque Metal Panel (Metal Framed)	951 SF
	WT-07	M Opaque Operable Door	20 SF

ENERGY MODEL AREA TAKEOFF - WT-07 - LEVEL 50 - SOUTH

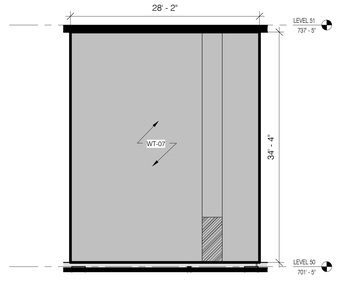
HATCH	WALL TYPE	TYPE	AREA
	WT-07	A Opaque Metal Panel (Metal Framed)	947 SF
	WT-07	M Opaque Operable Door	20 SF

ENERGY MODEL AREA TAKEOFF - WT-07 - LEVEL 50 - WEST

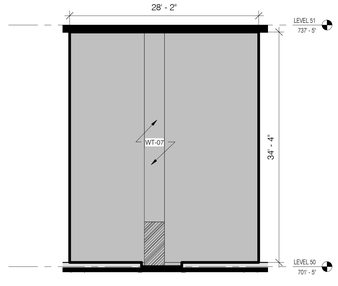
HATCH	WALL TYPE	TYPE	AREA
	WT-07	A Opaque Metal Panel (Metal Framed)	1287 SF



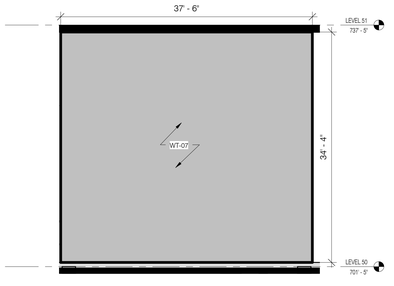
TOWER ELEVATION - WT-07 - LEVEL 50 - WEST - EN TAKEOFF | 1/8" = 1'-0" | 4 | EN-314.00



TOWER ELEVATION - WT-07 - LEVEL 50 - SOUTH - EN TAKEOFF | 1/8" = 1'-0" | 3 | EN-314.00



TOWER ELEVATION - WT-07 - LEVEL 50 - NORTH - EN TAKEOFF | 1/8" = 1'-0" | 2 | EN-314.00



TOWER ELEVATION - WT-07 - LEVEL 50 - EAST - EN TAKEOFF | 1/8" = 1'-0" | 1 | EN-314.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

ShoP

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.9000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 34TH STREET
NEW YORK, NY 10017
tel 212.667.6868

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
135 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES HISTORIC PRESERVATION CONSULTANTS

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

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BMU ENGINEER
ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2802

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
550 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

VIDARIS

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2325

Lathrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
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9 DEKALB AVE
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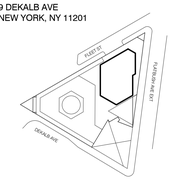

SITE DIAGRAM

07/15/16 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

TOWER ELEVATIONS - EN TAKEOFF - WT-07

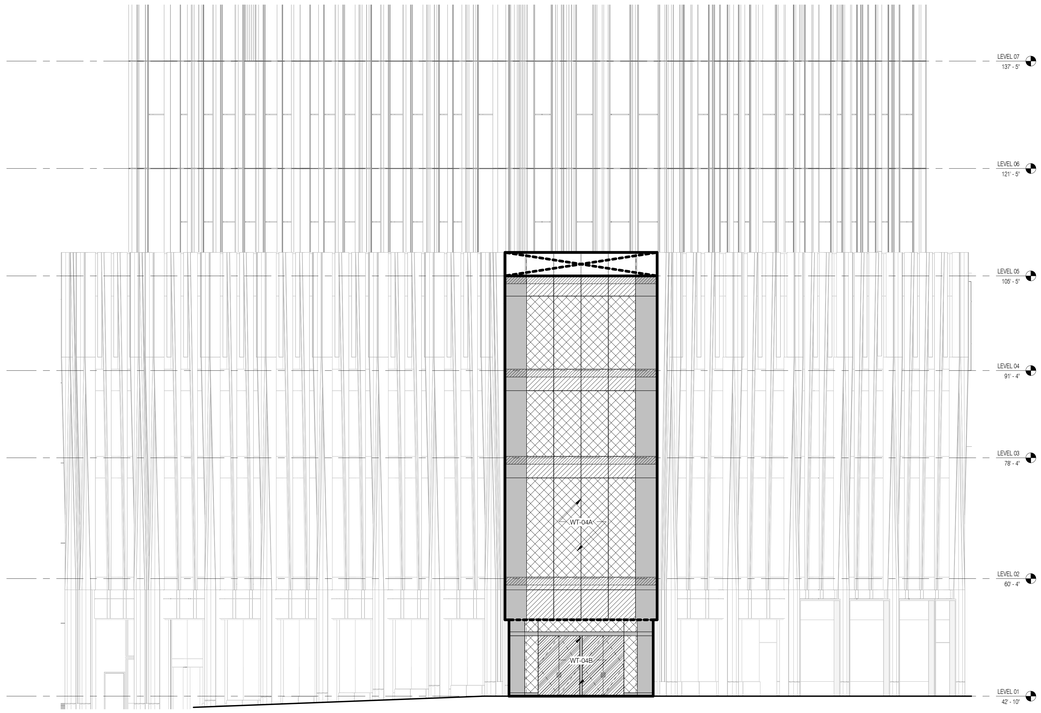
SEAL & SIGNATURE

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	320914338
DRAWING NUMBER	EN-314.00

DEPT OF BLDGS 320914338 Job Number
E350033175 Scan Code

ENERGY MODEL AREA TAKEOFF - WT-04B - FLEET ST + FAE CORNER			
HATCH	WALL TYPE	TYPE	AREA
	WT-04B	A Opaque Stone Panel	68 SF
	WT-04B	G Fenestration - Fixed Vision Glass	64 SF
	WT-04B	I Fenestration - Glass Operable Door	112 SF

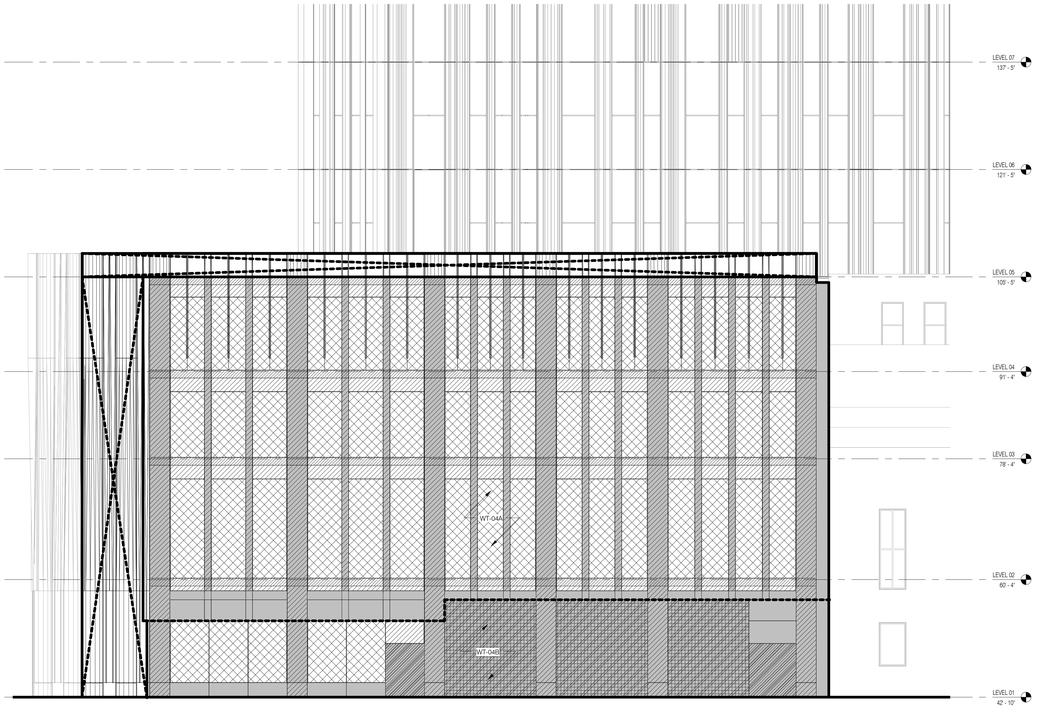
ENERGY MODEL AREA TAKEOFF - WT-04A - FLEET ST + FAE CORNER			
HATCH	WALL TYPE	TYPE	AREA
	WT-04A	A Opaque Stone Panel	298 SF
	WT-04A	B Opaque Stone Elements @ Slab (Mass)	30 SF
	WT-04A	D Shadow Box (Metal Framed)	180 SF
	WT-04A	E Small Shadowbox @ Mass Wall	76 SF
	WT-04A	G Fenestration - Fixed Vision Glass	577 SF



PODIUM ELEVATION - FLEET ST AND FAE CORNER - EN TAKEOFF | 1/8" = 1'-0" | 2 / EN-320.00

ENERGY MODEL AREA TAKEOFF - WT-04B - FLEET STREET			
HATCH	WALL TYPE	TYPE	AREA
	WT-04B	A Opaque Stone Panel	136 SF
	WT-04B	D Shadow Box (Metal Framed)	20 SF
	WT-04B	G Fenestration - Fixed Vision Glass	268 SF
	WT-04B	K Opaque Stone Feature	233 SF
	WT-04B	M Opaque Operable Door	103 SF
	WT-04B	N Opaque Operable Door - Roll-Up	571 SF

ENERGY MODEL AREA TAKEOFF - WT-04A - FLEET STREET			
HATCH	WALL TYPE	TYPE	AREA
	WT-04A	A Opaque Stone Panel	307 SF
	WT-04A	B Opaque Stone Elements @ Slab (Mass)	135 SF
	WT-04A	D Shadow Box (Metal Framed)	467 SF
	WT-04A	E Small Shadowbox @ Mass Wall	328 SF
	WT-04A	G Fenestration - Fixed Vision Glass	2494 SF
	WT-04A	K Opaque Stone Feature	1273 SF

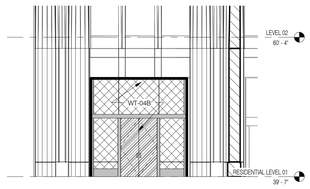


PODIUM ELEVATION - FLEET STREET - NORTH - EN TAKEOFF | 1/8" = 1'-0" | 3 / EN-320.00

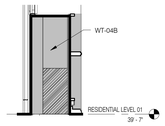
ENERGY MODEL AREA TAKEOFF - WT-04B - RESIDENTIAL ENTRY - WEST			
HATCH	WALL TYPE	TYPE	AREA
	WT-04B	A Opaque Stone Panel	41 SF
	WT-04B	G Fenestration - Fixed Vision Glass	126 SF
	WT-04B	I Fenestration - Glass Operable Door	47 SF

ENERGY MODEL AREA TAKEOFF - WT-04B - RESIDENTIAL ENTRY - SOUTH			
HATCH	WALL TYPE	TYPE	AREA
	WT-04B	A Opaque Stone Panel	55 SF
	WT-04B	M Opaque Operable Door	25 SF

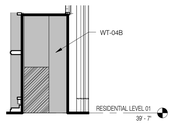
ENERGY MODEL AREA TAKEOFF - WT-04B - RESIDENTIAL ENTRY - NORTH			
HATCH	WALL TYPE	TYPE	AREA
	WT-04B	A Opaque Stone Panel	75 SF
	WT-04B	M Opaque Operable Door	25 SF



PODIUM ELEVATION - RESIDENTIAL ENTRY - WEST - EN TAKEOFF | 1/8" = 1'-0" | 4 / EN-320.00



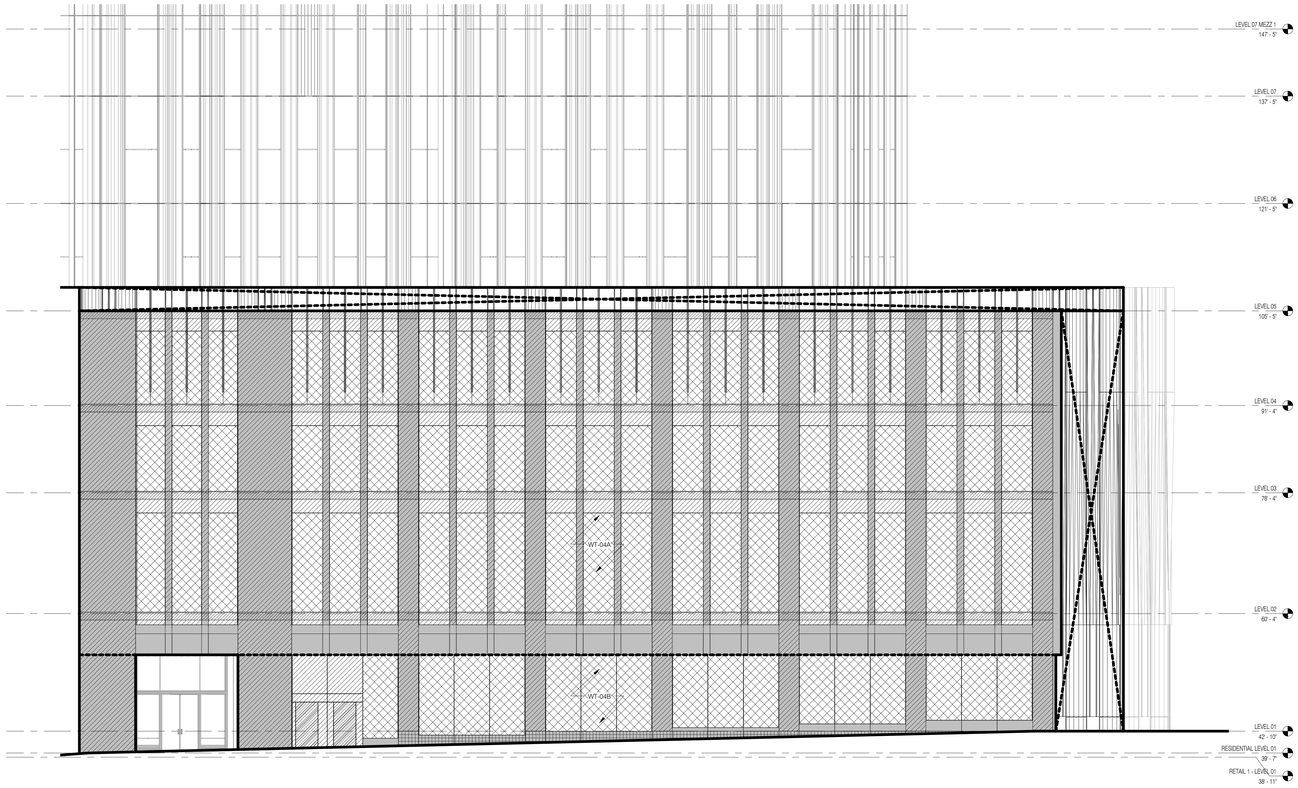
PODIUM ELEVATION - RESIDENTIAL ENTRY - SOUTH - EN TAKEOFF | 1/8" = 1'-0" | 5 / EN-320.00



PODIUM ELEVATION - RESIDENTIAL ENTRY - NORTH - EN TAKEOFF | 1/8" = 1'-0" | 6 / EN-320.00

ENERGY MODEL AREA TAKEOFF - WT-04A - FLATBUSH AVE EXT.			
HATCH	WALL TYPE	TYPE	AREA
	WT-04A	A Opaque Stone Panel	562 SF
	WT-04A	B Opaque Stone Elements @ Slab (Mass)	226 SF
	WT-04A	D Shadow Box (Metal Framed)	641 SF
	WT-04A	E Small Shadowbox @ Mass Wall	451 SF
	WT-04A	G Fenestration - Fixed Vision Glass	3427 SF
	WT-04A	K Opaque Stone Feature	2188 SF

ENERGY MODEL AREA TAKEOFF - WT-04B - FLATBUSH AVE EXT.			
HATCH	WALL TYPE	TYPE	AREA
	WT-04B	A Opaque Stone Panel	68 SF
	WT-04B	C Storefront Curb @ Mass Wall	123 SF
	WT-04B	D Shadow Box (Metal Framed)	104 SF
	WT-04B	G Fenestration - Fixed Vision Glass	929 SF
	WT-04B	I Fenestration - Glass Operable Door	51 SF
	WT-04B	K Opaque Stone Feature	444 SF



PODIUM ELEVATION - FLATBUSH AVE EXT - ENERGY MODEL TAKEOFF | 1/8" = 1'-0" | 1 / EN-320.00

PROFESSIONAL'S STATEMENT

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JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.5000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
250 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
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AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
135 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

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JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
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BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
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LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
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196 AMES STREET
HACKENSACK, NJ 07601
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DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7500

VIDARIS

BUILDING ENERGY
VIDARIS
260 PARK AVENUE SOUTH, 10TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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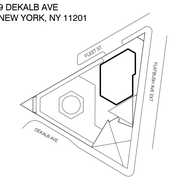
WHITE PLAINS, NY 10604
tel 914.485.4390

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

PODIUM ELEVATIONS - EN TAKEOFF - WT-04

SEAL & SIGNATURE

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ShoP
CHECKED BY	ShoP
DOB NO.	320914338

DRAWING NUMBER

EN-320.00

DEPT OF BLDGS 32091433B Job Number
E 533530 135 Scan Code

ENERGY MODEL AREA TAKEOFF - WT-06 - LOT LINE E			
HATCH	WALL TYPE	TYPE	AREA
	WT-06	J Opaque @ Mass Wall (CMU)	1299 SF
	WT-06	L Opaque @ Mass Wall (Slab)	68 SF

PROFESSIONAL'S STATEMENT

TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THIS APPLICATION IS IN COMPLIANCE WITH THE 2014 NYCECC VIA APPLICATION OF ASHRAE 90.1-2010 AS MODIFIED BY APPENDIX A.

BUILDING DEPARTMENT NOTES

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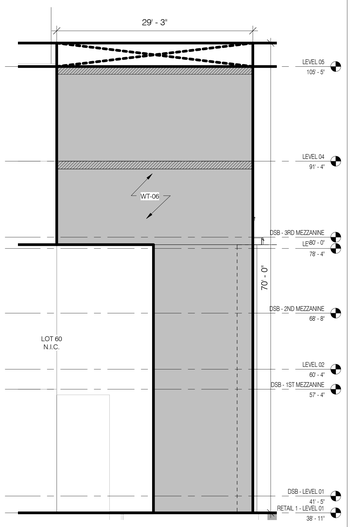
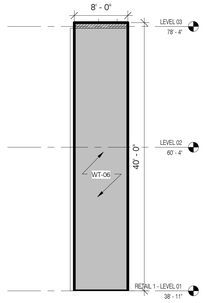


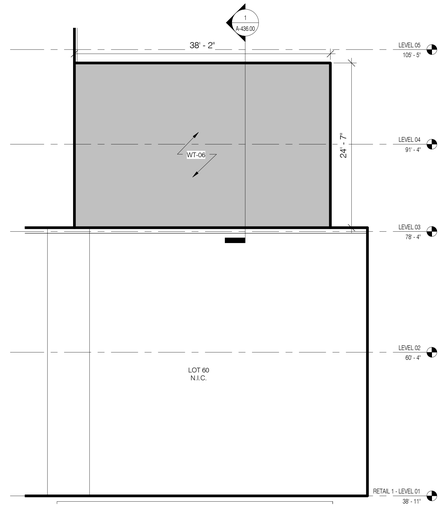
PODIUM ELEVATION - WT-06 - LOT LINE E - EN TAKEOFF | 1/8" = 1'-0" | 11 | EN-321.00

ENERGY MODEL AREA TAKEOFF - WT-06 - LOT LINE D			
HATCH	WALL TYPE	TYPE	AREA
	WT-06	J Opaque @ Mass Wall (CMU)	312 SF
	WT-06	L Opaque @ Mass Wall (Slab)	7 SF



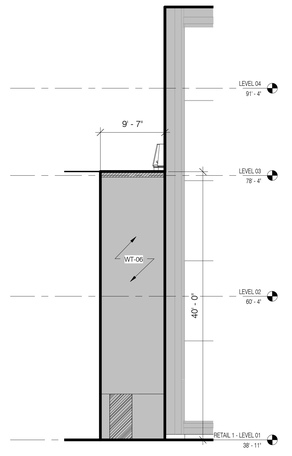
PODIUM ELEVATION - WT-06 - LOT LINE D - EN TAKEOFF | 1/8" = 1'-0" | 10 | EN-321.00

ENERGY MODEL AREA TAKEOFF - WT-06 - PRISM SOUTH			
HATCH	WALL TYPE	TYPE	AREA
	WT-06	J Opaque @ Mass Wall (CMU)	936 SF



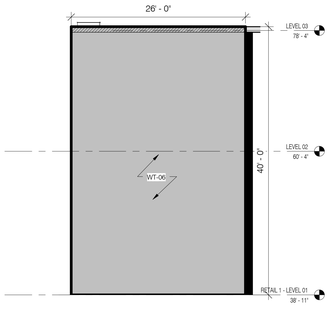
PODIUM ELEVATION - WT-06 - SOUTH PRISM - EN TAKEOFF | 1/8" = 1'-0" | 6 | EN-321.00

ENERGY MODEL AREA TAKEOFF - WT-06 - FLATBUSH AVE EXT.			
HATCH	WALL TYPE	TYPE	AREA
	WT-06	J Opaque @ Mass Wall (CMU)	353 SF
	WT-06	L Opaque @ Mass Wall (Slab)	8 SF
	WT-06	M Opaque Operable Door	23 SF



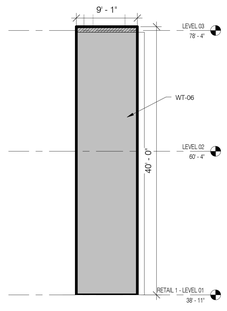
PODIUM ELEVATION - WT-06 - FLATBUSH AVE EXT - EN TAKEOFF | 1/8" = 1'-0" | 5 | EN-321.00

ENERGY MODEL AREA TAKEOFF - WT-06 - LOT LINE C			
HATCH	WALL TYPE	TYPE	AREA
	WT-06	J Opaque @ Mass Wall (CMU)	1016 SF
	WT-06	L Opaque @ Mass Wall (Slab)	22 SF



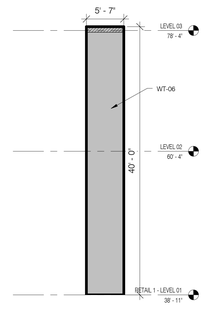
PODIUM ELEVATION - WT-06 - LOT LINE C - EN TAKEOFF | 1/8" = 1'-0" | 9 | EN-321.00

ENERGY MODEL AREA TAKEOFF - WT-06 - LOT LINE B			
HATCH	WALL TYPE	TYPE	AREA
	WT-06	J Opaque @ Mass Wall (CMU)	356 SF
	WT-06	L Opaque @ Mass Wall (Slab)	8 SF



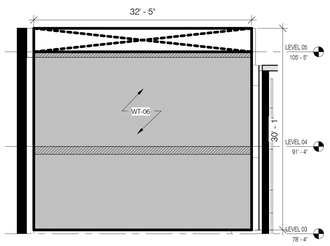
PODIUM ELEVATION - WT-06 - LOT LINE B - EN TAKEOFF | 1/8" = 1'-0" | 8 | EN-321.00

ENERGY MODEL AREA TAKEOFF - WT-06 - LOT LINE A			
HATCH	WALL TYPE	TYPE	AREA
	WT-06	J Opaque @ Mass Wall (CMU)	218 SF
	WT-06	L Opaque @ Mass Wall (Slab)	5 SF



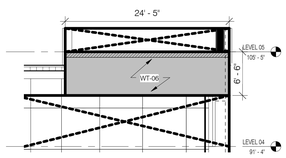
PODIUM ELEVATION - WT-06 - LOT LINE A - EN TAKEOFF | 1/8" = 1'-0" | 7 | EN-321.00

ENERGY MODEL AREA TAKEOFF - WT-06 - PARAPET SOUTH			
HATCH	WALL TYPE	TYPE	AREA
	WT-06	J Opaque @ Mass Wall (CMU)	797 SF
	WT-06	L Opaque @ Mass Wall (Slab)	65 SF



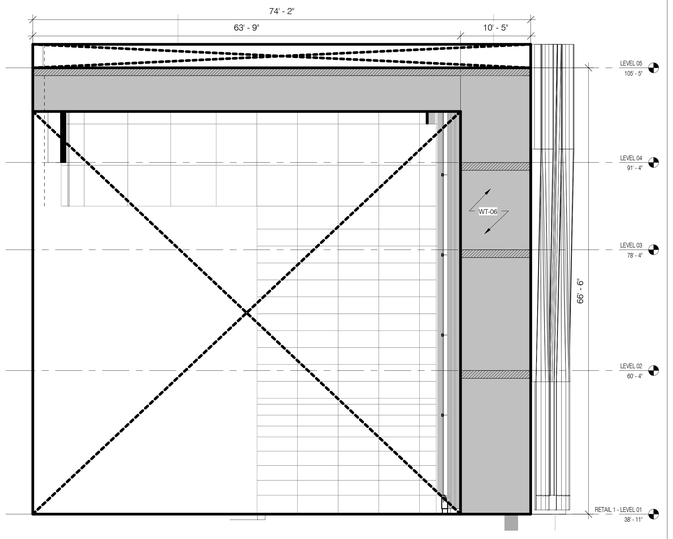
PODIUM ELEVATION - WT-06 - SOUTH PARAPET - EN TAKEOFF | 1/8" = 1'-0" | 4 | EN-321.00

ENERGY MODEL AREA TAKEOFF - WT-06 - PARAPET NORTH			
HATCH	WALL TYPE	TYPE	AREA
	WT-06	J Opaque @ Mass Wall (CMU)	138 SF
	WT-06	L Opaque @ Mass Wall (Slab)	20 SF



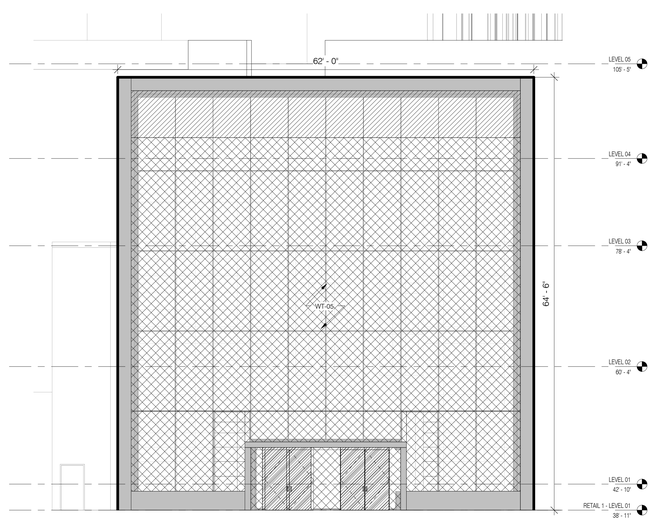
PODIUM ELEVATION - WT-06 - NORTH PARAPET - EN TAKEOFF | 1/8" = 1'-0" | 3 | EN-321.00

ENERGY MODEL AREA TAKEOFF - WT-06 - PARAPET SOUTHEAST			
HATCH	WALL TYPE	TYPE	AREA
	WT-06	J Opaque @ Mass Wall (CMU)	986 SF
	WT-06	L Opaque @ Mass Wall (Slab)	123 SF



PODIUM ELEVATION - WT-06 - SOUTHEAST PARAPET - EN TAKEOFF | 1/8" = 1'-0" | 2 | EN-321.00

ENERGY MODEL AREA TAKEOFF - WT-05 - FLATBUSH AVE EXT.			
RES	WALL TYPE	TYPE	AREA
	WT-05	G Fenestration - Fixed Vision Glass	2952 SF
	WT-05	D Shadow Box (Metal Framed)	406 SF
	WT-05	A Opaque (Metal Framed)	506 SF
	WT-05	I Fenestration - Glass Operable Door	135 SF



PODIUM ELEVATION - WT-05 - FLATBUSH AVE EXT - EN TAKEOFF | 1/8" = 1'-0" | 1 | EN-321.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
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NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
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tel 212.530.5000

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HISTORIC PRESERVATION
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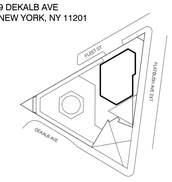

SITE DIAGRAM

07/15/16 DOB FILING SET

DATE	ISSUE	NO	DATE	REVISION

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DRAWING TITLE

PODIUM ELEVATIONS - EN TAKEOFF - WT-05 + WT-06

SEAL & SIGNATURE

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	SHoP
CHECKED BY	SHoP
DOB NO.	32091433B

DRAWING NUMBER

EN-321.00

DEPT OF BLDG 320014336 Job Number

B1525958430 Scan Code

PROFESSIONAL'S STATEMENT

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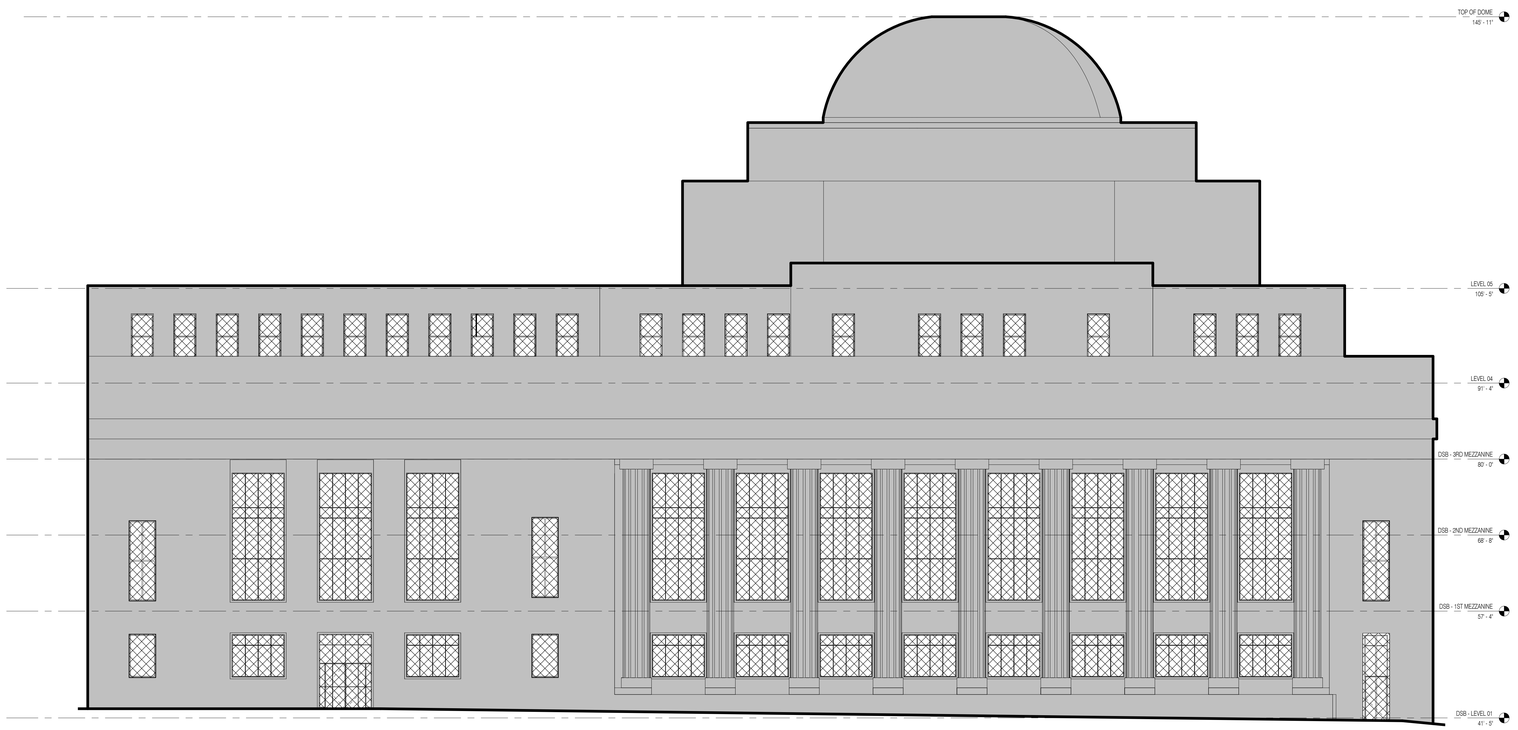
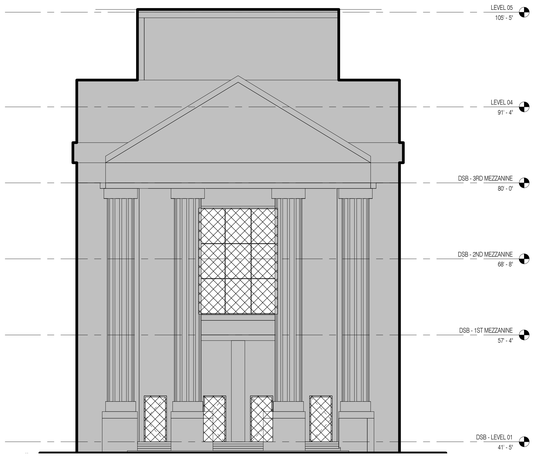
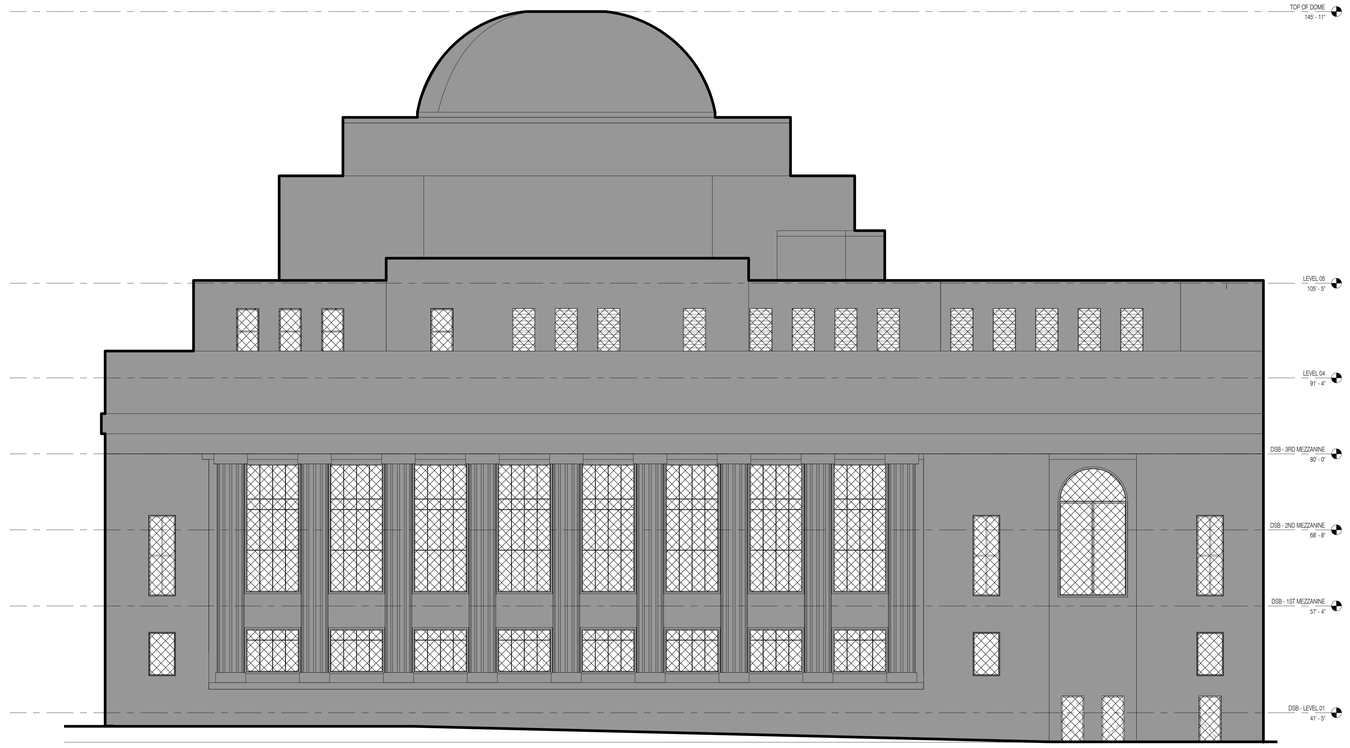


ENERGY MODEL AREA TAKEOFF - DIME SAVINGS BANK		
HATCH	TYPE	AREA
	A Opaque	29873 SF
	B Window	6485 SF

BANK ELEVATION - FLEET STREET - EN TAKEOFF | 1/8" = 1'-0" | 2 | EN-322.00



BANK ELEVATION - ALBEE SQUARE - EN TAKEOFF | 1/8" = 1'-0" | 3 | EN-322.00



BANK ELEVATION - DEKALB AVE - EN TAKEOFF | 1/8" = 1'-0" | 1 | EN-322.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
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JAROS, BAUM & BOLLES
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WSP CANTOR SEINUK
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SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION

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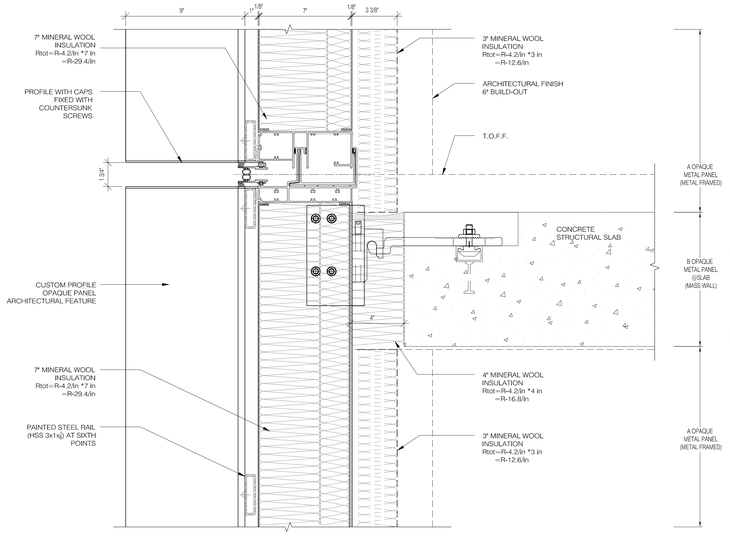
DRAWING TITLE

PODIUM ELEVATIONS - EN TAKEOFF - DIME SAVINGS BANK

SEAL & SIGNATURE

DATE	07/25/16
PROJECT NO.	140429
DRAWN BY	Author
CHECKED BY	Checker
DOB NO.	
DRAWING NUMBER	EN-322.00

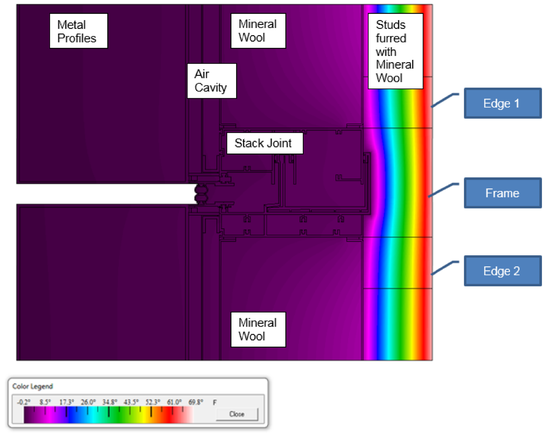
DEPT OF BUILDINGS 320014336 Job Number
ES1320309511 Scan Code

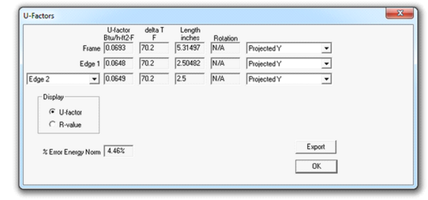


WT-01 Stack Joints at Opaque Units	
Element	**avg. U-Value** [BTU/(h·ft2·°F)]
A - Opaque Metal Panel (mf)	0.019 *
B - Opaque Metal Panel (mass)	0.043 *

CALCULATED WITH THERM SOFTWARE. SEE ADJACENT DIAGRAM FOR THERM REPORT. THERM* MODEL INPUT VALUES ARE SHOWN AT BOTTOM OF SHEET.

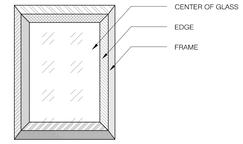
SECTION DETAIL - WT-01 STACK JOINT AT OPAQUE UNITS | 3" = 1'-0" | 1 | EN-331.01

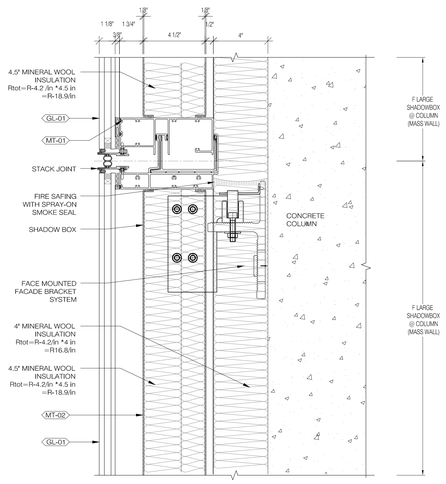




$$U_{total} = \frac{\sum(A_{frame} * U_{frame} + A_{edge} * U_{edge} + A_{COG} * U_{COG})}{A_{total}}$$

*APPROACH USED FOR ALL U-VALUE CALCULATIONS

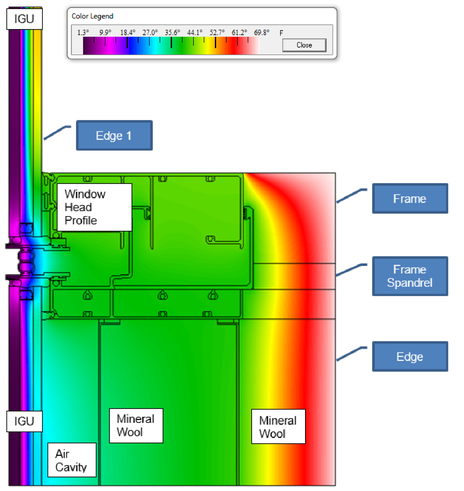


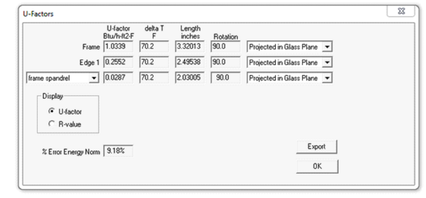


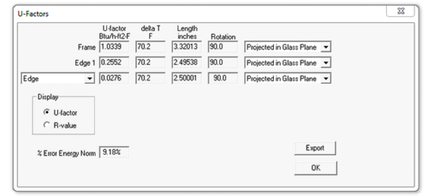
WT-01 and WT-02 Stack Joint at Spandrel, face mounted	
Element	**avg. U-Value** [BTU/(h·ft2·°F)]
F - Large Shadowbox (mass)	0.029 *

CALCULATED WITH THERM SOFTWARE. SEE ADJACENT DIAGRAM FOR THERM REPORT. THERM* MODEL INPUT VALUES ARE SHOWN AT BOTTOM OF SHEET.

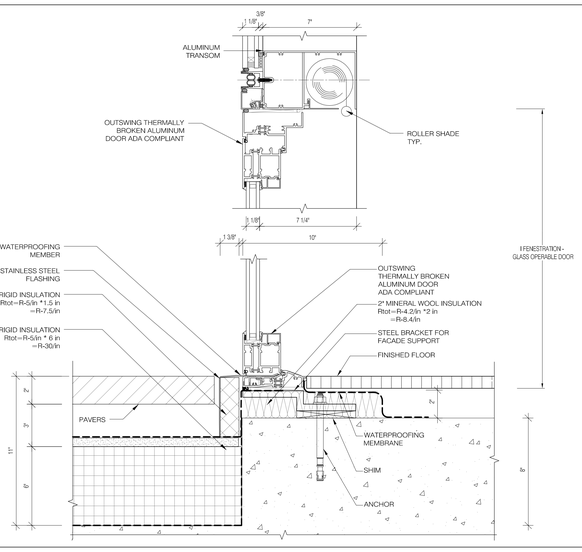
SECTION DETAIL - WT-01 AND WT-02 STACK JOINT AT SPANDREL FACE MOUNTED ATTACHMENT | 3" = 1'-0" | 2 | EN-331.01







*FOR CONSERVATIVE APPROACH, THE TYPICAL CASE WAS CALCULATED, WHICH DOES NOT ASSUME CONTINUOUS CONCRETE COLUMN AND INSULATION



WT-01 Door Head and Sill at Terrace	
Element	**avg. U-Value** [BTU/(h·ft2·°F)]
I - Fenestration - operable door	0.850

SECTION DETAIL - WT-01 DOOR HED AND SILL AT TERRACE | 3" = 1'-0" | 3 | EN-331.01

WT-01 U-VALUE SUMMARY

FENESTRATION

ASSEMBLY	DETAIL REFERENCE	SHGC	AREA	U-VALUE	WEIGHTED U-VALUE
G. Fenestration - Fixed Vision Glass	01/EN-332.00	0.27	91,110	0.438	0.442
H. Fenestration - Operable Window	02/EN-332.00	0.27	21,318	0.457	
I. Fenestration - Glass Operable Door	03/EN-331.01	0.27	675	0.850	0.850

OPAQUE WALL

ASSEMBLY	DETAIL REFERENCE	SHGC	AREA	U-VALUE	WEIGHTED U-VALUE		OPAQUE AVG U-VALUE (Used in Energy Analysis)
A. Opaque Metal Panel (Metal Framed)	01/EN-331.01		98,129	0.019	Metal-Framed Wall	0.0212	0.0286
D. Shadow Box (Metal Framed)	01/EN-332.00		14,890	0.036			
B. Opaque Metal Panel @ Mass Wall (Slab)	01/EN-331.01		11,577	0.043	Mass Wall	0.0399	
C. Opaque Metal Panel @ Mass Wall (Column)	01/EN-331.01		40,227	0.043			
E. Small Shadowbox @ Mass Wall	01/EN-332.00		10,151	0.037			
F. Large Shadowbox @ Mass Wall	02/EN-331.01		11,945	0.029			

Materials used in Therm* model	
Material	**Conductivity** [BTU-in/(h·ft2·°F)]
Aluminum anodized	1643.23
Ethylene Propylene Diene Monomer (EPDM)	1.73
Frame Cavity NFRC 100	0.43
Frame Cavity Slightly Ventilated NFRC 100	8.70
Insulation - Mineral Wool	0.24
Insulation - Rigid	0.20
Polyamide 6.6 with 25% glass fiber	2.08

Materials used in Therm* model	
Material	**Conductivity** [BTU-in/(h·ft2·°F)]
Polyurethane Foam	0.35
Polyisobutylene (PIB)	1.39
Silica Gel (Desiccant) - Bulk	0.90
Silicone	2.43
Steel - Stainless (Oxidized)	117.87
Steel - Galvanized Sheet (0.14% C)	429.88
Stone	9.96

Center of glass heat transfer coefficient used in Therm* model	
Glass type	**U-Value** [BTU/(h·ft2·°F)]
WT 01 Vision Glass - GL01	0.24
WT 01 Operable Glass - GL 01	0.24
WT 01 Tower Spandrel - GL 01A	0.24
WT 04A Vision Glass - GL 04	0.27
WT 04B Vision Glass - GL 05	0.27
WT 05 Vision Glass - GL 06	0.97

* All U-Values have been calculated with the 2D-steady state heat-flow software Therm by LBNL version 7.4.3.0

THERMAL CONDUCTIVITY AND CENTER OF GLASS HEAT TRANSFER COEFFICIENTS | N / A | EN-331.01

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
212.889.9005

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JAROS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
212.530.9500

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 44TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
220 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
917.330.9300

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AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9826

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

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INTERIORS
GACHOT
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NEW YORK, NY 10012
646.666.0646

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HISTORIC PRESERVATION
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33 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6040

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LIGHTING
BOLD
221 WEST 26TH STREET
NEW YORK, NY 10001
212.674.6005

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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196 AMES STREET
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201.820.2602

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tel 212.271.7000

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NEW YORK, NY 10010
212.689.3389

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FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
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333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.490.4290

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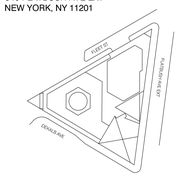
340 FLATBUSH AVE EXT
NEW YORK, NY 11201



SITE DIAGRAM

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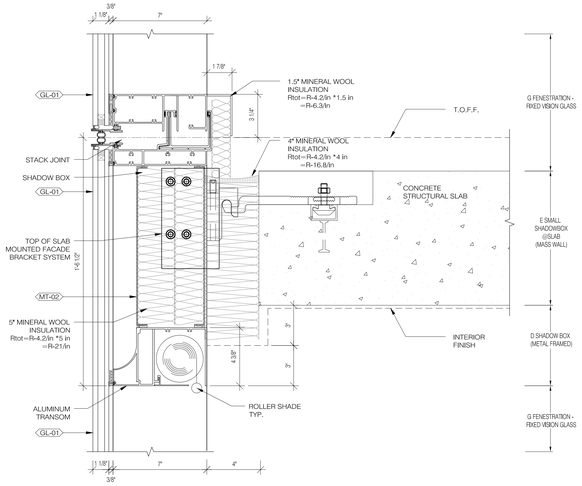
DRAWING TITLE

SECTION DETAILS WT-01

SEAL & SIGNATURE

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ssc/ho
CHECKED BY	SP
DOB NO.	
DRAWING NUMBER	EN-331.01

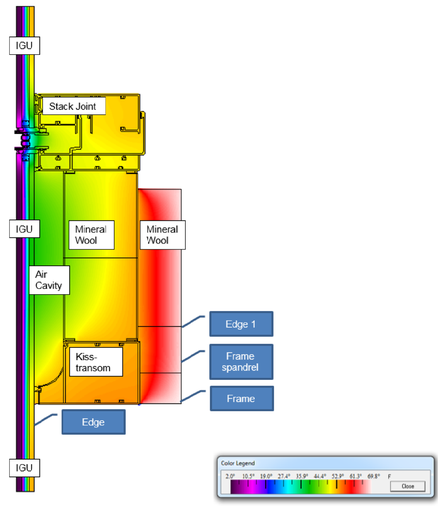
DEPT OF BLDGS 320014336 Job Number
EN170904700 Scan Code

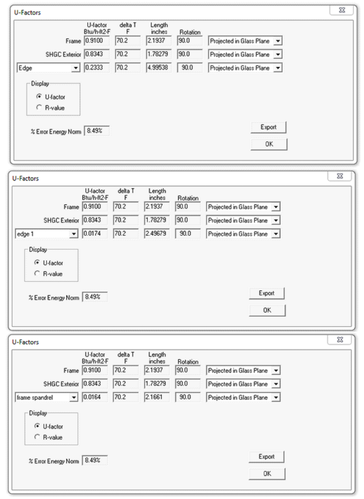


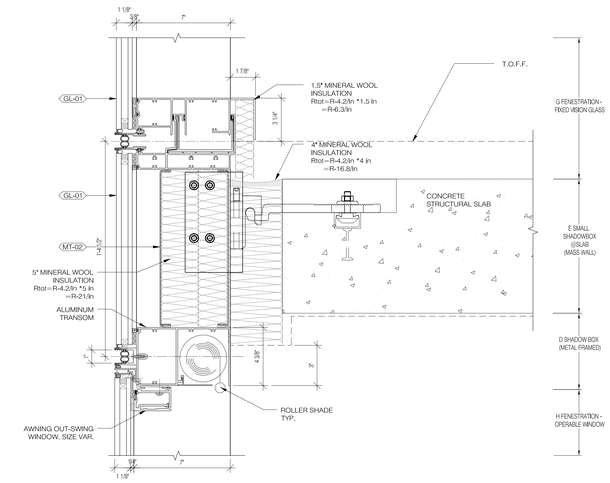
WT-01 Stack Joints at Top of Slab Attachment	
Element	**avg. U-Value** [BTU/(h·ft2·°F)]
D - Shadow Box (mf)	0.036 *
E - Small Shadowbox (mass)	0.037 *
G - Fenestration - fixed vision	0.438 *

CALCULATED WITH THERM SOFTWARE. SEE ADJACENT DIAGRAM FOR THERM REPORT. THERM* MODEL INPUT VALUES ARE SHOWN AT BOTTOM OF SHEET.

SECTION DETAIL - WT-01 TYPICAL STACK JOINT AT TOP OF SLAB ATTACHMENT | 3" = 1'-0" | 1 | EN-332.00







WT-01 Stack Joint at Window Head	
Element	**avg. U-Value** [BTU/(h·ft2·°F)]
D - Shadow Box (mf)	0.036 *
E - Small Shadowbox (mass)	0.037 *
G - Fenestration - fixed vision	0.438 *
H - Fenestration - operable	0.457 *

CALCULATED WITH THERM SOFTWARE. SEE ADJACENT DIAGRAM FOR THERM REPORT. THERM* MODEL INPUT VALUES ARE SHOWN AT BOTTOM OF SHEET.

SECTION DETAIL - WT-01 STACK JOINT AT WINDOW HEAD | 3" = 1'-0" | 2 | EN-332.00

Materials used in Therm* model	
Material	**Conductivity** [BTU-in/(h·ft2·°F)]
Aluminum anodized	1643.23
Ethylene Propylene Diene Monomer (EPDM)	1.73
Frame Cavity NFRC 100	0.43
Frame Cavity Slightly Ventilated NFRC 100	8.70
Insulation - Mineral Wool	0.24
Insulation - Rigid	0.20
Polyamide 6.6 with 25% glass fiber	2.08

Materials used in Therm* model	
Material	**Conductivity** [BTU-in/(h·ft2·°F)]
Polyurethane Foam	0.35
Polyisobutylene (PIB)	1.39
Silica Gel (Desiccant) - Bulk	0.90
Silicone	2.43
Steel - Stainless (Oxidized)	117.87
Steel - Galvanized Sheet (0.14% C)	429.88
Stone	9.96

Center of glass heat transfer coefficient used in Therm* model	
Glass type	**U-Value** [BTU/(h·ft2·°F)]
WT 01 Vision Glass - GL01	0.24
WT 01 Operable Glass - GL 01	0.24
WT 01 Tower Spandrel - GL 01A	0.24
WT 04A Vision Glass - GL 04	0.27
WT 04B Vision Glass - GL 05	0.27
WT 05 Vision Glass - GL 06	0.97

* All U-Values have been calculated with the 2D-steady state heat-flow software Therm by LBNL version 7.4.3.0

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DEVELOPER
JDS DEVELOPMENT GROUP
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NEW YORK, NY 10011
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ARCHITECT
SHoP ARCHITECTS, P.C.
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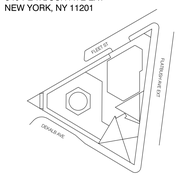

SITE DIAGRAM

07.15.16 DOB FILING SET

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DRAWING TITLE

SECTION DETAILS WT-01

SEAL & SIGNATURE

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	sscho
CHECKED BY	SP
DOB NO.	
DRAWING NUMBER	EN-332.00

DEPT OF BUILDINGS 320043336 Job Number
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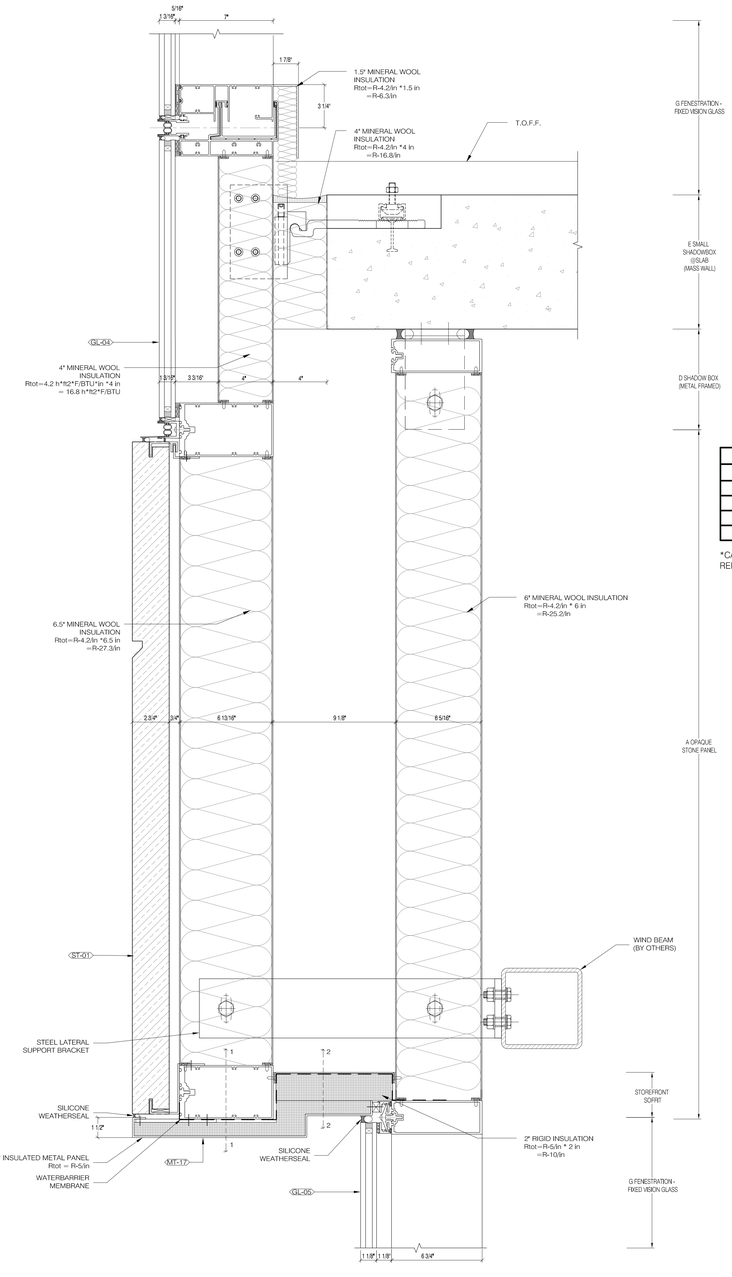
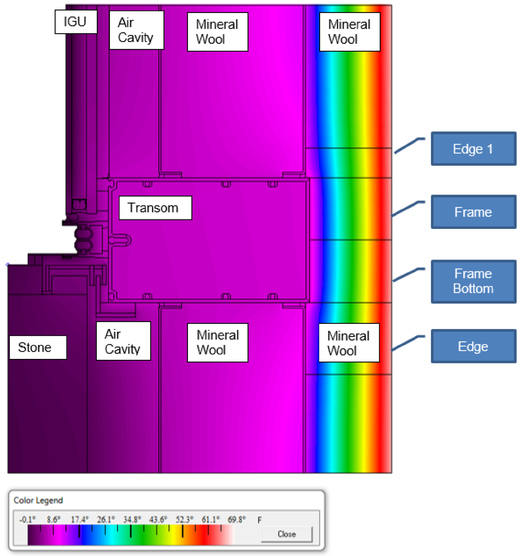
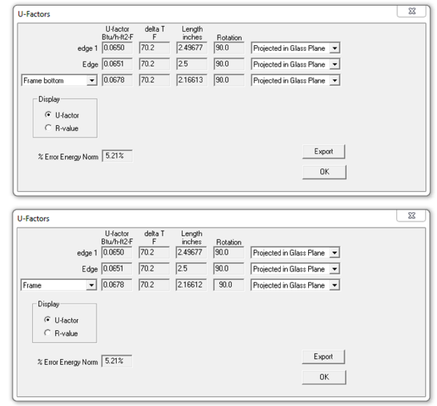


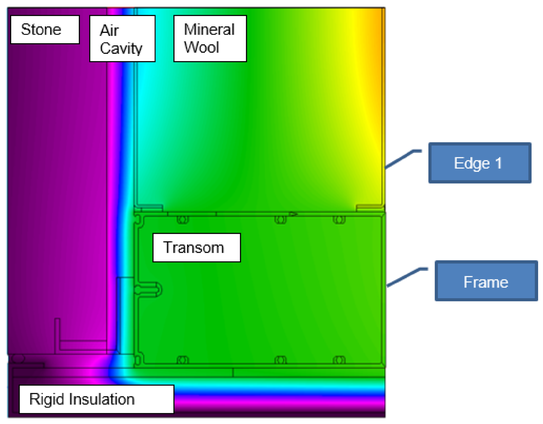
WT-04 Storefront at Head	
Element	**avg. U-Value** [BTU/(h·ft2·°F)]
A - Opaque Stone Panel	0.036 *
D - Shadow Box (mf)	0.032 *
E - Small Shadowbox (mass)	0.037 *
G - Fenestration - fixed vision	0.406 *

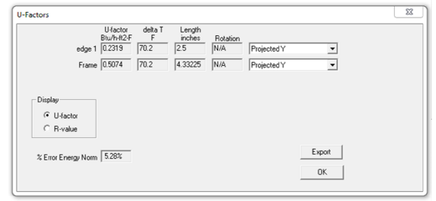
CALCULATED WITH THERM SOFTWARE. SEE ADJACENT DIAGRAM FOR THERM REPORT. THERM* MODEL INPUT VALUES ARE SHOWN AT BOTTOM OF SHEET.

SECTION DETAIL - WT-04 STOREFRONT AT HEAD | 3" = 1'-0" | 1 / EN-333.00









WT-04A, WT-04B, AND WT-06 U-VALUE SUMMARY

FENESTRATION

WALL TYPE	ASSEMBLY	DETAIL REFERENCE	SHGC	WTD AVG SHGC	AREA	U-VALUE	WEIGHTED AVG U-VALUE
WT-04A	G. Fenestration - Fixed Vision Glass	01/EN-334.00	0.54	0.55	6,498	0.406	0.389
WT-04B	G. Fenestration - Fixed Vision Glass	01/EN-335.00	0.61		1,387	0.310	
WT-04B	I. Fenestration - Glass Operable Door		0.61		209	0.850	0.850

OPAQUE WALL

ASSEMBLY	DETAIL REFERENCE		AREA	U-VALUE	WEIGHTED AVG U-VALUE		OPAQUE AVG U-VALUE
A. Opaque Stone Panel (Metal Framed)	01-02/EN-333.00-334.00		1,610	0.036	Metal-Framed Wall	0.0352	0.0482
D. Shadow Box (Metal Framed)	01-02/EN-334.00		1,412	0.032			
K. Opaque Stone Feature	01-01/EN-333.00-334.00		4,139	0.036			
B. Opaque Stone Elements @ Slab (Mass)	01/EN-333.00		391	0.087	Mass Wall	0.0559	
C. Storefront Curb @ Mass Wall	01/EN-335.00		123	0.068			
E. Small Shadowbox @ Mass Wall	01-02/EN-334.00		855	0.037			
J. Opaque @ Mass Wall (CMU)	02/EN-335.00		6,411	0.056			
L. Opaque @ Mass Wall (Slab)	01/EN-331.01		327	0.061			
M. Opaque Operable Door			176	0.700			
N. Opaque Operable Door - Roll-Up			571	1.500			

Materials used in Therm* model

Material	Conductivity [BTU-in/(h-ft2-°F)]
Aluminum anodized	1643.23
Ethylene Propylene Diene Monomer (EPDM)	1.73
Frame Cavity NFRC 100	0.43
Frame Cavity Slightly Ventilated NFRC 100	8.70
Insulation - Mineral Wool	0.24
Insulation - Rigid	0.20
Polyamide 6.6 with 25% glass fiber	2.08

Materials used in Therm* model

Material	Conductivity [BTU-in/(h-ft2-°F)]
Polyurethane Foam	0.35
Polyisobutylene (PIB)	1.39
Silica Gel (Desiccant) - Bulk	0.90
Silicone	2.43
Steel - Stainless (Oxidized)	117.87
Steel - Galvanized Sheet (0.14% C)	429.88
Stone	9.96

Center of glass heat transfer coefficient used in Therm* model

Glass type	U-Value [BTU/(h-ft2-°F)]
WT 01 Vision Glass - GL01	0.24
WT 01 Operable Glass - GL 01	0.24
WT 01 Tower Spandrel - GL 01A	0.24
WT 04A Vision Glass - GL 04	0.27
WT 04B Vision Glass - GL 05	0.27
WT 05 Vision Glass - GL 06	0.97

* All U-Values have been calculated with the 2D-steady state heat-flow software Therm by LBNL version 7.4.3.0

THERMAL CONDUCTIVITY AND CENTER OF GLASS HEAT TRANSFER COEFFICIENTS | N / A | EN-333.00

JDS DEVELOPMENT GROUP
DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
646.625.3640

shop
ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
212.889.9005

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EAST HANOVER, NJ 07936
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51 MADISON AVE #19
NEW YORK, NY 10010
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33 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6040

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NEW YORK, NY 10001
212.674.6500

Longman Lindsey
ACOUSTICAL ENGINEER
LONGMAN LINDSEY
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NEW YORK, NY 10018
tel 212.315.6400

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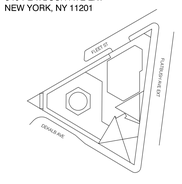

SITE DIAGRAM

07.15.16 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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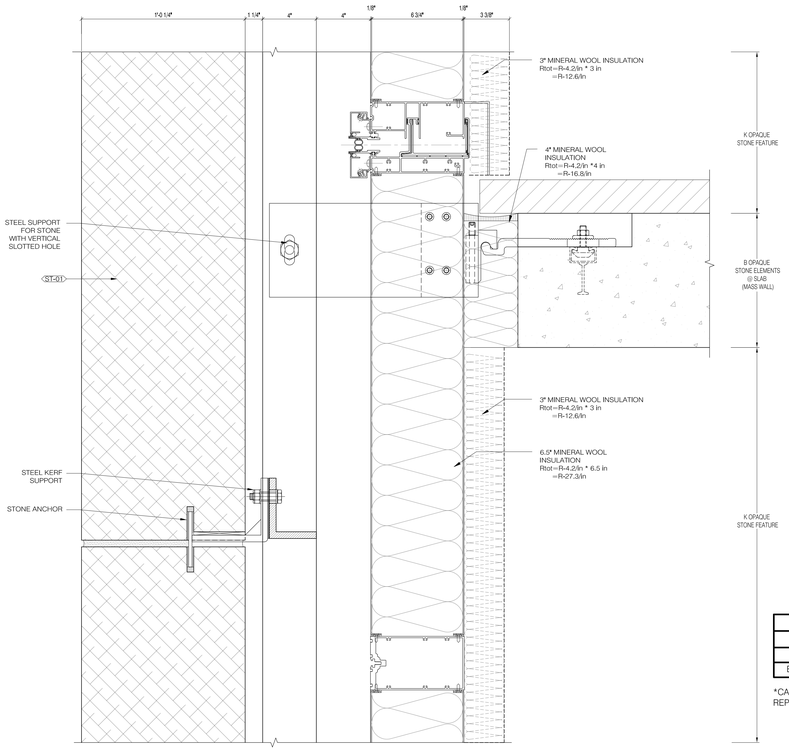
DRAWING TITLE

SECTION DETAILS WT-04

SEAL & SIGNATURE

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ssc/no
CHECKED BY	SP
DOB NO.	
DRAWING NUMBER	EN-333.00

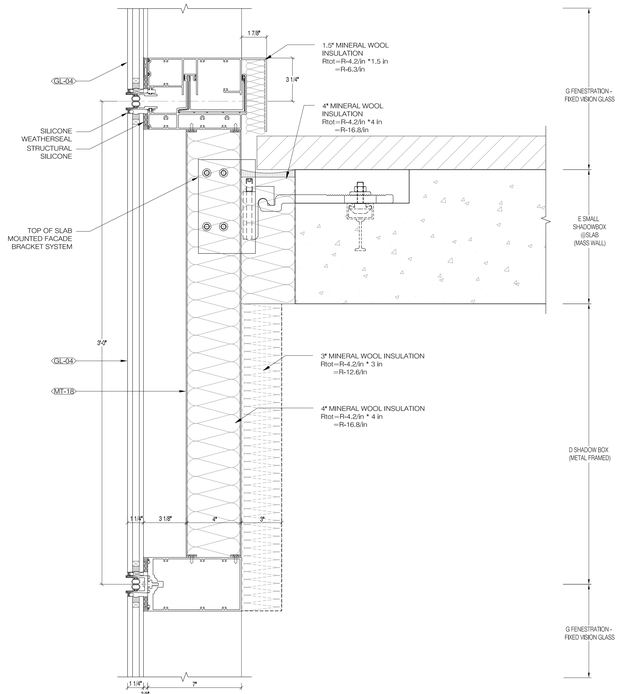
DEPT OF BLDGS 320043538 Job Number
E3037292745 Scan Code



WT-04 Stack Joint at Convexicave Profile	
Element	**avg. U-Value** [BTU/(h·ft2·°F)]
K - Opaque Stone Feature (mf)	0.036 *
B - Opaque Stone Elements (mass)	0.087 *

CALCULATED WITH THERM SOFTWARE. SEE ADJACENT DIAGRAM FOR THERM REPORT. THERM* MODEL INPUT VALUES ARE SHOWN AT BOTTOM OF SHEET.

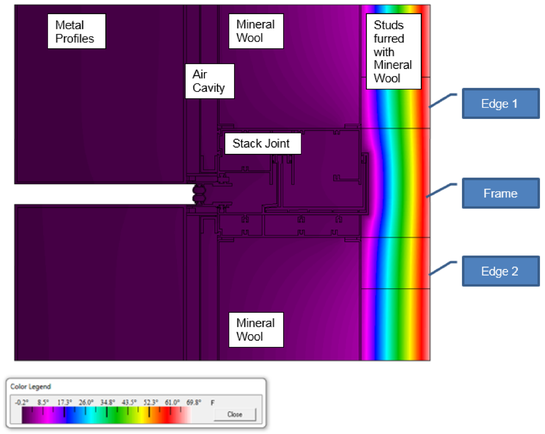
SECTION DETAIL - WT-04 STACK JOINT AT CONVEXICAVE PROFILE | 3" = 1'-0" | 1 | EN-334.00

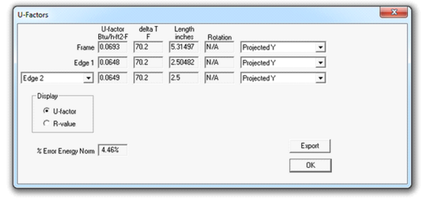


WT-04 Stack Joint at Glass	
Element	**avg. U-Value** [BTU/(h·ft2·°F)]
D - Shadow Box (mf)	0.032 *
E - Small Shadowbox (mass)	0.037 *
G - Fenestration - fixed vision	0.406 *

CALCULATED WITH THERM SOFTWARE. SEE ADJACENT DIAGRAM FOR THERM REPORT. THERM* MODEL INPUT VALUES ARE SHOWN AT BOTTOM OF SHEET.

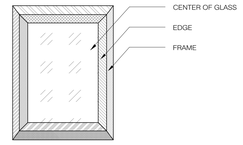
SECTION DETAIL - WT-04 STACK JOINT AT GLASS | 3" = 1'-0" | 2 | EN-334.00

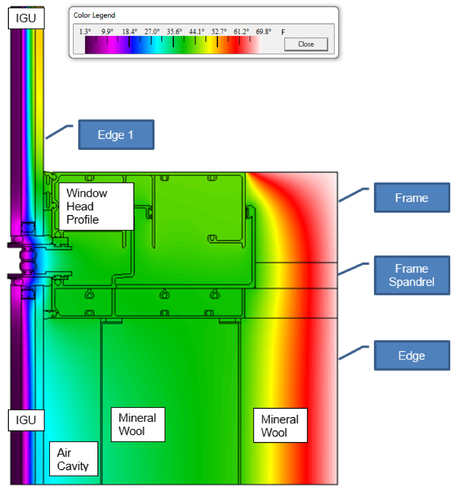


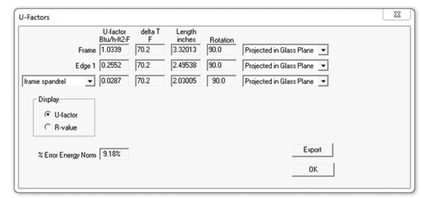


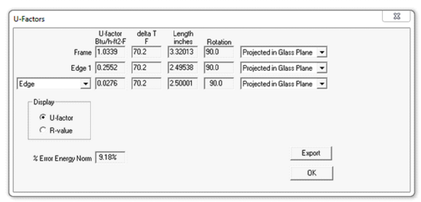
$$U_{total} = \frac{\sum(A_{frame} * U_{frame} + A_{edge} * U_{edge} + A_{COG} * U_{COG})}{A_{total}}$$

*APPROACH USED FOR ALL U-VALUE CALCULATIONS









Materials used in Therm* model	
Material	**Conductivity** [BTU-in/(h·ft2·°F)]
Aluminum anodized	1643.23
Ethylene Propylene Diene Monomer (EPDM)	1.73
Frame Cavity NFRC 100	0.43
Frame Cavity Slightly Ventilated NFRC 100	8.70
Insulation - Mineral Wool	0.24
Insulation - Rigid	0.20
Polyamide 6.6 with 25% glass fiber	2.08

Materials used in Therm* model	
Material	**Conductivity** [BTU-in/(h·ft2·°F)]
Polyurethane Foam	0.35
Polyisobutylene (PIB)	1.39
Silica Gel (Desiccant) - Bulk	0.90
Silicone	2.43
Steel - Stainless (Oxidized)	117.87
Steel - Galvanized Sheet (0.14% C)	429.88
Stone	9.96

Center of glass heat transfer coefficient used in Therm* model	
Glass type	**U-Value** [BTU/(h·ft2·°F)]
WT 01 Vision Glass - GL01	0.24
WT 01 Operable Glass - GL 01	0.24
WT 01 Tower Spandrel - GL 01A	0.24
WT 04A Vision Glass - GL 04	0.27
WT 04B Vision Glass - GL 05	0.27
WT 05 Vision Glass - GL 06	0.97

* All U-Values have been calculated with the 2D-steady state heat-flow software Therm by LBNL version 7.4.3.0

THERMAL CONDUCTIVITY AND CENTER OF GLASS HEAT TRANSFER COEFFICIENTS | N / A | EN-334.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 8TH FLR
NEW YORK, NY 10011
646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
212.530.9500

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WSP CANTOR SEINUK
225 WEST 44TH STREET
NEW YORK, NY 10017
tel 212.687.9888

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GEOTECHNICAL ENGINEER
MRCE
229 WEST 54TH STREET 6TH FLOOR
NEW YORK, NY 10122
917.339.9300

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AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9826

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
646.625.3640

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FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE, # 19
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tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
646.666.0646

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NEW YORK, NY 10018
tel 212.315.6400

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196 AMES STREET
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201.820.2802

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VIDARIS
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NEW YORK, NY 10010
212.689.3389

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BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

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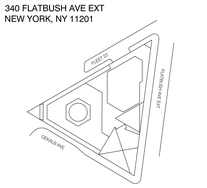

SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07.15.16	DOB FILING SET			

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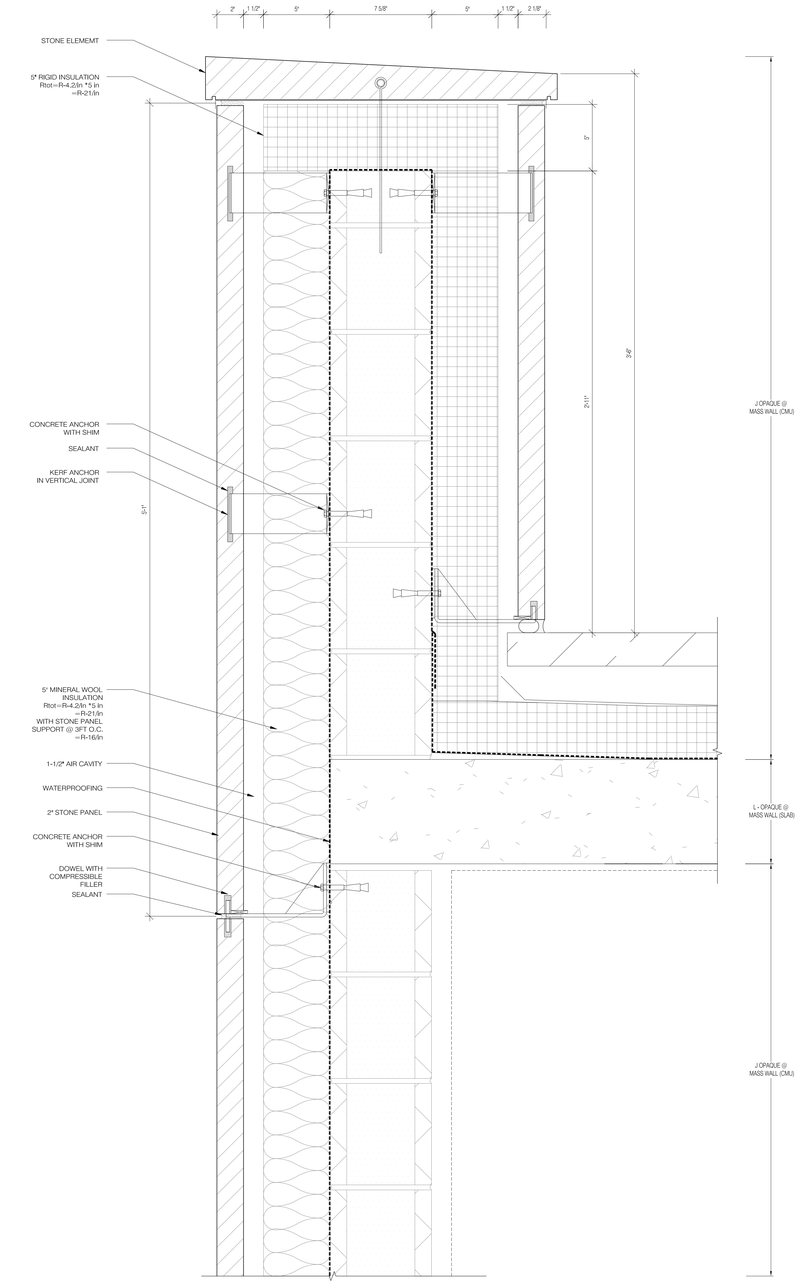
DRAWING TITLE

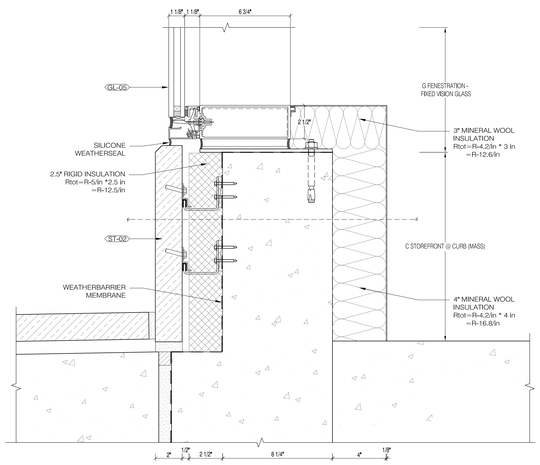
SECTION DETAILS WT-04

SEAL & SIGNATURE

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	sscho
CHECKED BY	SP
DOB NO.	
DRAWING NUMBER	EN-334.00

DEPT OF BUILDINGS 320243336 Job Number
E340536448 Scan Code





WT-04B G Fenestration - Fixed Vision Glass	
Element	**avg. U-Value** [BTU/(h·ft2·°F)]
G - Fenestration - fixed vision	0.31

WT-04B C Storefront @ Curb (Mass)	
Element	**R-Value** [(h·ft2·°F)/BTU]
Exterior Air Film Coefficient	0.17
2" Granite Stone Panel	0.125
2-1/2" Rigid Insulation	6.25
8" Concrete Curb	0.50
4" Mineral Wool with studs 16" o.c.	6.40
5/8" Gypsum Board	0.57
Interior Air Film Coefficient	0.68
Total	14.70
U-Value [BTU/(h·ft2·°F)]=	0.068

WT-06 J Opaque @ Mass Wall (CMU)	
Element	**R-Value** [(h·ft2·°F)/BTU]
Exterior Air Film Coefficient	0.17
2" Stone Panel	0.20
5" Mineral Wool with Panel Supports at 3 ft o.c.	16.00
8" CMU Block	0.90
Interior Air Film Coefficient	0.68
Total	17.95
U-Value [BTU/(h·ft2·°F)]=	0.056

WT-06 L Opaque @ Mass Wall (Slab)	
Element	**R-Value** [(h·ft2·°F)/BTU]
Exterior Air Film Coefficient	0.17
2" Stone Panel	0.20
5" Mineral Wool	16.00
Total	16.37
U-Value [BTU/(h·ft2·°F)]=	0.061

SECTION DETAIL - WT-04 STOREFRONT AT SILL | 3" = 1'-0" | 1 | EN-335.00

SECTION DETAIL - WT-06 STONE CLADDING AT PARAPET | 3" = 1'-0" | 2 | EN-335.00

Materials used in Therm* model	
Material	**Conductivity** [BTU-in/(h·ft2·°F)]
Aluminum anodized	1643.23
Ethylene Propylene Diene Monomer (EPDM)	1.73
Frame Cavity NFRC 100	0.43
Frame Cavity Slightly Ventilated NFRC 100	8.70
Insulation - Mineral Wool	0.24
Insulation - Rigid	0.20
Polyamide 6.6 with 25% glass fiber	2.08

Materials used in Therm* model	
Material	**Conductivity** [BTU-in/(h·ft2·°F)]
Polyurethane Foam	0.35
Polyisobutylene (PIB)	1.39
Silica Gel (Desiccant) - Bulk	0.90
Silicone	2.43
Steel - Stainless (Oxidized)	117.87
Steel - Galvanized Sheet (0.14% C)	429.88
Stone	9.96

Center of glass heat transfer coefficient used in Therm* model	
Glass type	**U-Value** [BTU/(h·ft2·°F)]
WT 01 Vision Glass - GL01	0.24
WT 01 Operable Glass - GL 01	0.24
WT 01 Tower Spandrel - GL 01A	0.24
WT 04A Vision Glass - GL 04	0.27
WT 04B Vision Glass - GL 05	0.27
WT 05 Vision Glass - GL 06	0.97

* All U-Values have been calculated with the 2D-steady state heat-flow software Therm by LBNL version 7.4.3.0

THERMAL CONDUCTIVITY AND CENTER OF GLASS HEAT TRANSFER COEFFICIENTS | N / A | EN-335.00

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DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
646.625.3640

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ARCHITECT
SHoP ARCHITECTS, P.C.
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NEW YORK, NY 10279
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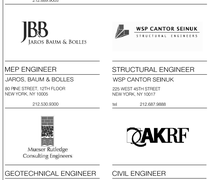

SITE DIAGRAM

07.15.16 DOB FILING SET

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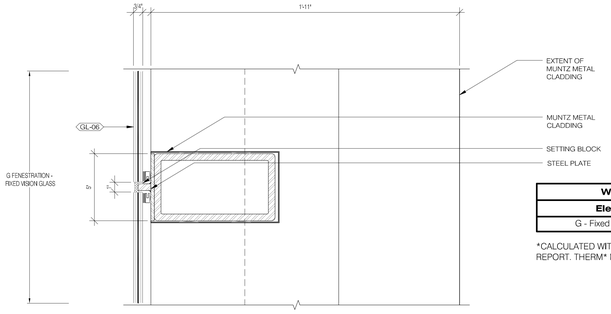
DRAWING TITLE

SECTION DETAILS WT-04
SECTION DETAILS WT-06

SEAL & SIGNATURE

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	ssc/ho
CHECKED BY	SP
DOB NO.	
DRAWING NUMBER	EN-335.00

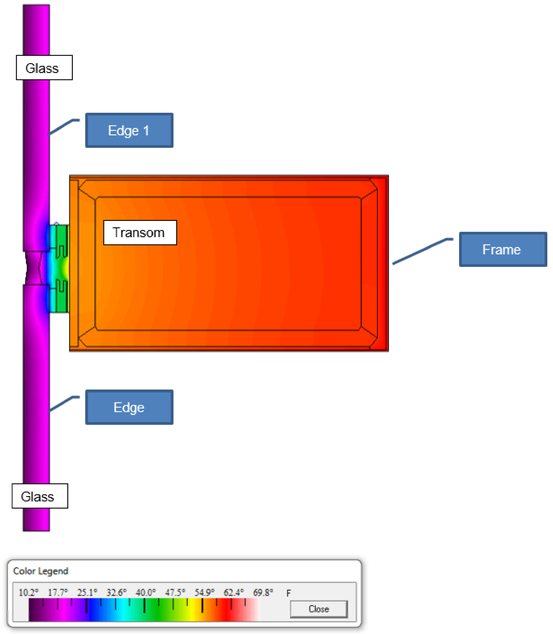
DEPT OF BUILDINGS 320024336 Job Number
E537365075 Scan Code

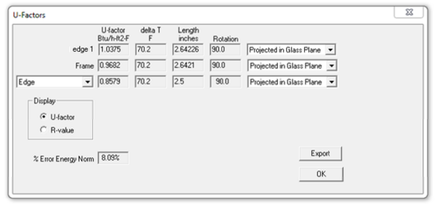


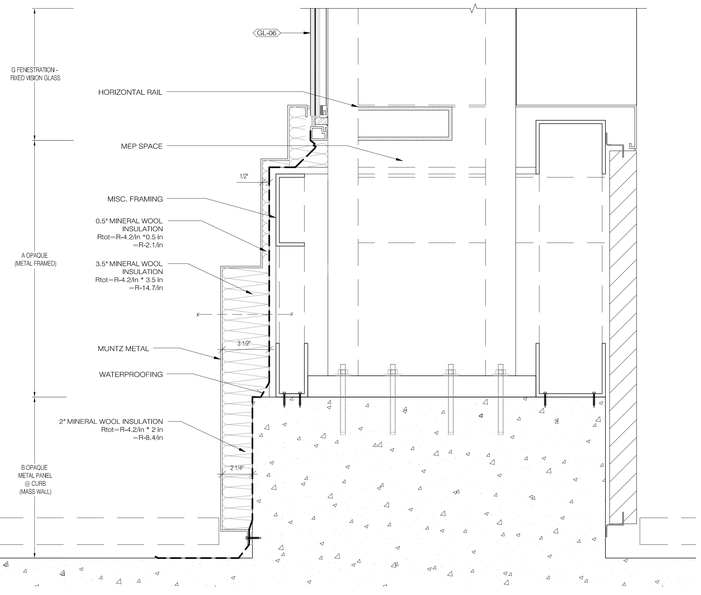
WT-05 VISION - FIXED CURTAINWALL	
Element	**avg. U-Value** [BTU/(h·ft2·°F)]
G - Fixed Vision Glass	0.928 *

CALCULATED WITH THERM SOFTWARE. SEE ADJACENT DIAGRAM FOR THERM REPORT. THERM* MODEL INPUT VALUES ARE SHOWN AT BOTTOM OF SHEET.

SECTION DETAIL - WT-05 VISION - FIXED CURTAINWALL | 3" = 1'-0" | 1 | EN-336.00







WT-05 VISION - FIXED CURTAINWALL	
Element	**avg. U-Value** [BTU/(h·ft2·°F)]
G - Fixed Vision Glass	0.928 *

CALCULATED WITH THERM SOFTWARE. SEE ADJACENT DIAGRAM FOR THERM REPORT. THERM* MODEL INPUT VALUES ARE SHOWN AT BOTTOM OF SHEET.

WT-05 Vision - Fixed Curtainwall at Base	
Element	**R-Value** [(h·ft2·°F)/BTU]
Exterior Air Film Coefficient	0.17
Muntz Metal Panel	0.00
3.5" Mineral Wool with Panel Supports at 3 ft o.c.	11.00
Interior Air Film Coefficient	0.68
Total	11.85
U-Value [BTU/(h·ft2·°F)]=	0.084

SECTION DETAIL - WT-05 BASE DETAIL | 3" = 1'-0" | 2 | EN-336.00

WT-05 U-VALUE SUMMARY

FENESTRATION

ASSEMBLY	DETAIL REFERENCE	SHGC	AREA	U-VALUE
G. Fenestration - Fixed Vision Glass	02/EN-336.00	0.58	2,952	0.928
I. Fenestration - Glass Operable Door	0	0.58	135	0.850

OPAQUE WALL

ASSEMBLY	DETAIL REFERENCE		AREA	U-VALUE	WEIGHTED U-VALUE	OPAQUE AVG U-VALUE (Used in Energy Analysis)
A. Opaque (Metal Framed)	01-01/EN-336.00-337.00		506	0.049	Metal-Framed Wall 0.4390	0.4390
D. Shadow Box (Metal Framed)	01/EN-337.00		406	0.925		

WT-07 U-VALUE SUMMARY

OPAQUE WALL

ASSEMBLY	DETAIL REFERENCE		AREA	U-VALUE
A. Opaque Metal Panel (Metal Framed)	01/EN-338.00		9,513	0.072
M. Opaque Operable Door	0		121	0.700

Materials used in Therm* model	
Material	**Conductivity** [BTU-in/(h·ft2·°F)]
Aluminum anodized	1643.23
Ethylene Propylene Diene Monomer (EPDM)	1.73
Frame Cavity NFRC 100	0.43
Frame Cavity Slightly Ventilated NFRC 100	8.70
Insulation - Mineral Wool	0.24
Insulation - Rigid	0.20
Polyamide 6.6 with 25% glass fiber	2.08

Materials used in Therm* model	
Material	**Conductivity** [BTU-in/(h·ft2·°F)]
Polyurethane Foam	0.35
Polyisobutylene (PIB)	1.39
Silica Gel (Desiccant) - Bulk	0.90
Silicone	2.43
Steel - Stainless (Oxidized)	117.87
Steel - Galvanized Sheet (0.14% C)	429.88
Stone	9.96

Center of glass heat transfer coefficient used in Therm* model	
Glass type	**U-Value** [BTU/(h·ft2·°F)]
WT 01 Vision Glass - GL01	0.24
WT 01 Operable Glass - GL 01	0.24
WT 01 Tower Spandrel - GL 01A	0.24
WT 04A Vision Glass - GL 04	0.27
WT 04B Vision Glass - GL 05	0.27
WT 05 Vision Glass - GL 06	0.97

* All U-Values have been calculated with the 2D-steady state heat-flow software Therm by LBNL version 7.4.3.0

THERMAL CONDUCTIVITY AND CENTER OF GLASS HEAT TRANSFER COEFFICIENTS | N / A | EN-336.00

JDS DEVELOPMENT GROUP

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JDS DEVELOPMENT GROUP
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NEW YORK, NY 10011
646.625.3640

shop

ARCHITECT
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NEW YORK, NY 10279
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212.530.9500

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tel 646.388.9826

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EAST HANOVER, NJ 07936
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tel 212.315.6400

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201.820.2602

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BURO HAPPOLD
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tel 212.334.2025

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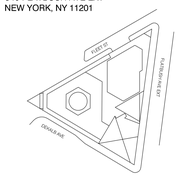

SITE DIAGRAM

07.15.16 DOB FILING SET

DATE	ISSUE	NO.	DATE	REVISION

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DRAWING TITLE

SECTION DETAILS WT-05

SEAL & SIGNATURE

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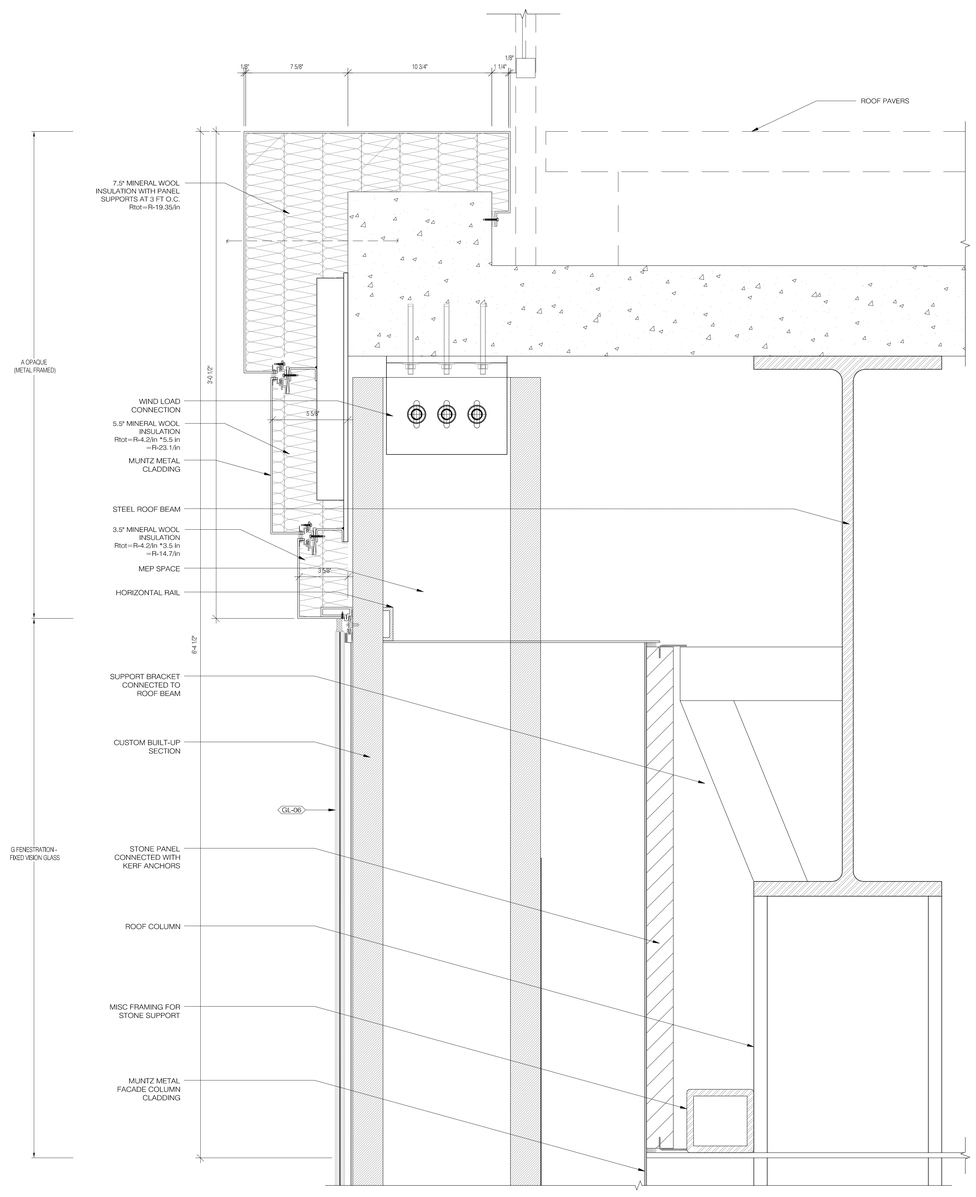
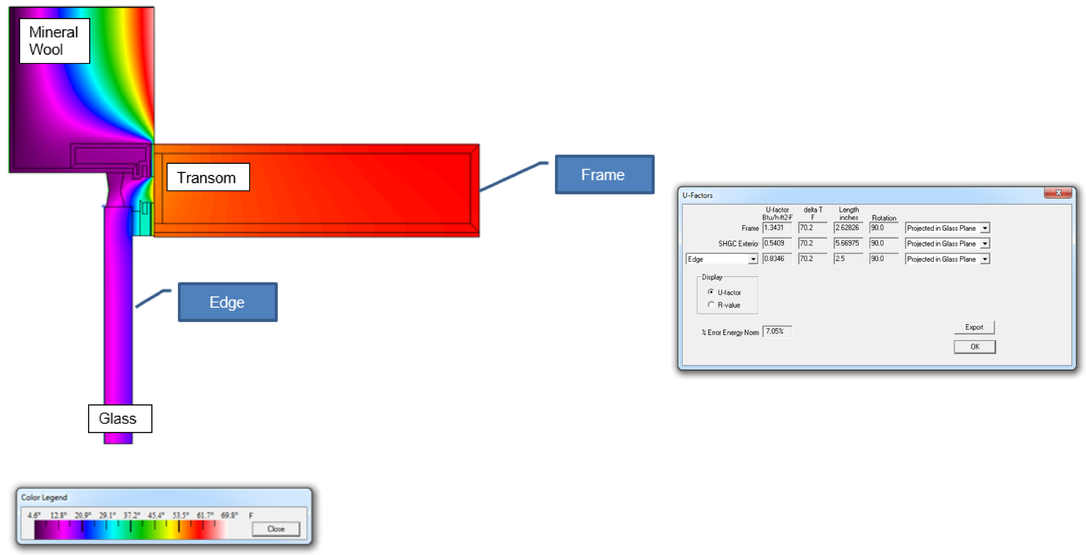
PROJECT NO.	140429
DRAWN BY	stk/cho
CHECKED BY	SP
DOB NO.	
DRAWING NUMBER	EN-336.00





WT-05 VISION - FIXED CURTAINWALL	
Element	**avg. U-Value** [BTU/(h·ft2·°F)]
G - Fixed Vision Glass	0.928 *

WT-05 Vision - Fixed Curtainwall	
Element	**SHGC** [-]
WT-5 Fenestration - fixed vision	0.58

CALCULATED WITH THERM SOFTWARE. SEE ADJACENT DIAGRAM FOR THERM REPORT. THERM* MODEL INPUT VALUES ARE SHOWN AT BOTTOM OF SHEET.

WT-05 Parapet	
Element	**R-Value** [(h·ft2·°F)/BTU]
Exterior Air Film Coefficient	0.17
Muntz Metal Panel	1.00
7.5" Mineral Wool with Panel Supports at 3 ft o.c.	19.35
Total	20.52
U-Value [BTU/(h·ft2·°F)]=	0.049

SECTION DETAIL - WT-05 PARAPET | 3" = 1'-0" | 1 | EN-337.00

Materials used in Therm* model	
Material	**Conductivity** [BTU-in/(h·ft2·°F)]
Aluminum anodized	1643.23
Ethylene Propylene Diene Monomer (EPDM)	1.73
Frame Cavity NFRC 100	0.43
Frame Cavity Slightly Ventilated NFRC 100	8.70
Insulation - Mineral Wool	0.24
Insulation - Rigid	0.20
Polyamide 6.6 with 25% glass fiber	2.08

Materials used in Therm* model	
Material	**Conductivity** [BTU-in/(h·ft2·°F)]
Polyurethane Foam	0.35
Polyisobutylene (PIB)	1.39
Silica Gel (Desiccant) - Bulk	0.90
Silicone	2.43
Steel - Stainless (Oxidized)	117.87
Steel - Galvanized Sheet (0.14% C)	429.88
Stone	9.96

Center of glass heat transfer coefficient used in Therm* model	
Glass type	**U-Value** [BTU/(h·ft2·°F)]
WT 01 Vision Glass - GL01	0.24
WT 01 Operable Glass - GL 01	0.24
WT 01 Tower Spandrel - GL 01A	0.24
WT 04A Vision Glass - GL 04	0.27
WT 04B Vision Glass - GL 05	0.27
WT 05 Vision Glass - GL 06	0.97

* All U-Values have been calculated with the 2D-steady state heat-flow software Therm by LBNL version 7.4.3.0

THERMAL CONDUCTIVITY AND CENTER OF GLASS HEAT TRANSFER COEFFICIENTS | N / A | EN-337.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
646.625.3640

shop

ARCHITECT
SHoP ARCHITECTS, P.C.
220 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
212.889.9005

JBB JACOS BAUM & BOLLES

MEP ENGINEER
JACOS, BAUM & BOLLES
60 PINE STREET, 12TH FLOOR
NEW YORK, NY 10005
212.330.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 44TH STREET
NEW YORK, NY 10017
tel 212.697.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
917.339.9300

AKRF

CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9826

vda

VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
104 BROADWAY SUITE 509
NEW YORK, NY 10012
646.666.0646

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
33 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.768.6040

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NEW YORK, NY 10001
212.674.6500

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ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 308
NEW YORK, NY 10018
tel 212.315.6400

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ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
500 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7000

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BUROHAPPOLD ENGINEERING

BUILDING ENERGY
VIDARIS
360 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
212.889.3389

FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.3525

Lothrop TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.455.4300

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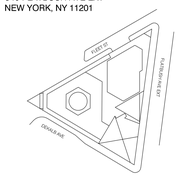

SITE DIAGRAM

DATE	ISSUE	NO.	DATE	REVISION
07.15.16	DOB FILING SET			

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DRAWING TITLE

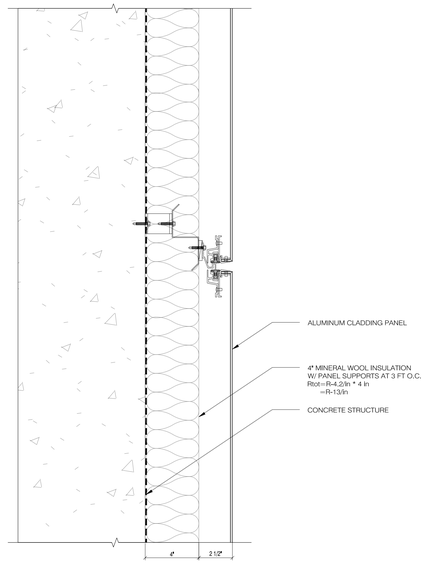
SECTION DETAILS WT-05

SEAL & SIGNATURE

DATE	07/15/16
PROJECT NO.	140429
DRAWN BY	sscho
CHECKED BY	SP
DOB NO.	
DRAWING NUMBER	EN-337.00

DEPT OF BUILDINGS 320243536 Job Number

E-5999914467S Scan Code



WT-07 A Opaque Metal Panel @ Mass Wall	
Element	**R-Value** [(h·ft2·°F)/BTU]
Exterior Air Film Coefficient	0.17
Aluminum Metal Panel	0.00
4" Mineral Wool Insulation with Panel Supports at 3 ft o.c.	13.00
Interior Air Film Coefficient	0.68
Total	13.85
U-Value [BTU/(h·ft2·°F)]=	0.072

SECTION DETAIL - WT-07 Core Cladding - Aluminum Panels | 3" = 1'-0" | 1 | EN-338.00

Materials used in Therm* model	
Material	**Conductivity** [BTU-in/(h·ft2·°F)]
Aluminum anodized	1643.23
Ethylene Propylene Diene Monomer (EPDM)	1.73
Frame Cavity NFRC 100	0.43
Frame Cavity Slightly Ventilated NFRC 100	8.70
Insulation - Mineral Wool	0.24
Insulation - Rigid	0.20
Polyamide 6.6 with 25% glass fiber	2.08

Materials used in Therm* model	
Material	**Conductivity** [BTU-in/(h·ft2·°F)]
Polyurethane Foam	0.35
Polyisobutylene (PIB)	1.39
Silica Gel (Desiccant) - Bulk	0.90
Silicone	2.43
Steel - Stainless (Oxidized)	117.87
Steel - Galvanized Sheet (0.14% C)	429.88
Stone	9.96

Center of glass heat transfer coefficient used in Therm* model	
Glass type	**U-Value** [BTU/(h·ft2·°F)]
WT 01 Vision Glass - GL01	0.24
WT 01 Operable Glass - GL 01	0.24
WT 01 Tower Spandrel - GL 01A	0.24
WT 04A Vision Glass - GL 04	0.27
WT 04B Vision Glass - GL 05	0.27
WT 05 Vision Glass - GL 06	0.97

* All U-Values have been calculated with the 2D-steady state heat-flow software Therm by LBNL version 7.4.3.0

THERMAL CONDUCTIVITY AND CENTER OF GLASS HEAT TRANSFER COEFFICIENTS | N / A | EN-338.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
646.625.3640

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ARCHITECT
SHoP ARCHITECTS, P.C.
233 BROADWAY, 17TH FLOOR
NEW YORK, NY 10279
212.889.9005

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MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
212.530.9300

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
225 WEST 44TH STREET
NEW YORK, NY 10017
tel 212.697.9888

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GEOTECHNICAL ENGINEER
MRCE
229 WEST 34TH STREET 6TH FLOOR
NEW YORK, NY 10122
917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9626

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VAN DEUSEN & ASSOCIATES
120 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
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THORNTON TOMASETTI
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INTERIORS
GACHOT
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NEW YORK, NY 10012
646.666.0646

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JAN HIRD POKORNY ASSOCIATES
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HACKENSACK, NJ 07601
201.820.2802

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SIMPSON GUMPERTZ & HEGER
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NEW YORK, NY 10018
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SECTION DETAILS WT-07

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DRAWN BY	sk/cho
CHECKED BY	SP
DOB NO.	
DRAWING NUMBER	EN-338.00

DEPT OF BLDGS 320914338 Job Number

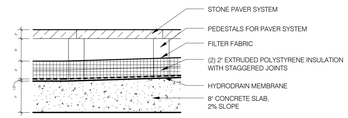
E 1313567685 Scan Code

PROFESSIONAL'S STATEMENT

TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THIS APPLICATION IS IN COMPLIANCE WITH THE 2014 NYCECC VIA APPLICATION OF ASHRAE 90.1-2010 AS MODIFIED BY APPENDIX A.

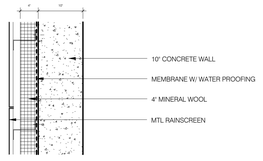
BUILDING DEPARTMENT NOTES

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.



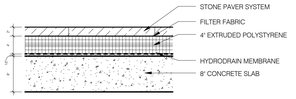
MATERIALS	R-VALUE
EXTERIOR AIR FILM	R-0.17
STONE PAVER SYSTEM	-
FILTER FABRIC	-
(2) 2" EXTRUDED POLYSTYRENE, R-5/INCH	R-20
HYDRODRAIN MEMBRANE	-
8" CONCRETE SLAB	R-0.50
INTERIOR AIR FILM	R-0.61
TOTAL R-VALUE	21.28
TOTAL U-VALUE	0.047

ROOF - TERRACE, WIND FLOORS, PODIUM AND TOWER | 1" = 1'-0" | 4 | EN-350.00



MATERIALS	R-VALUE
EXTERIOR AIR FILM COEFFICIENT	R-0.17
ALUMINUM RAIN SCREEN PANEL	R-0.00
AIR CAVITY	-
4" MINERAL WOOL INSULATION	R-13.00
INTERIOR AIR FILM	R-0.68
TOTAL R-VALUE	R-13.85
TOTAL U-VALUE	0.072

WALLS SEPARATING CONDITIONED/UNCONDITIONED SPACE | 1" = 1'-0" | 7 | EN-350.00

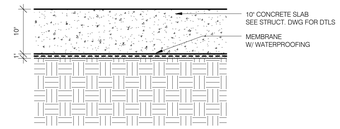


MATERIALS	R-VALUE
EXTERIOR AIR FILM	R-0.17
STONE PAVER SYSTEM	-
FILTER FABRIC	-
4" EXTRUDED POLYSTYRENE	R-20
HYDRODRAIN MEMBRANE	-
8" CONCRETE SLAB	R-0.50
INTERIOR AIR FILM	R-0.61
TOTAL R-VALUE	21.28
TOTAL U-VALUE	0.047

ROOF -BULKHEADS | 1" = 1'-0" | 3 | EN-350.00

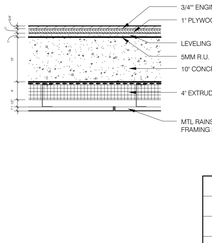
MATERIALS	R-VALUE
INTERIOR AIR FILM	R-0.92
3/4" ENGINEERED WOOD	R-0.33
1" PLYWOOD	R-1.25
LEVELING COMPOUND	-
5MM R.U.	-
10" CONCRETE SLAB	R-0.50
4" EXTRUDED POLYSTYRENE	R-17
EXTERIOR AIR FILM	R-0.17
TOTAL R-VALUE	20.17
TOTAL U-VALUE	0.050

FLOORS - PARKING GARAGE CEILING | 1" = 1'-0" | 6 | EN-350.00



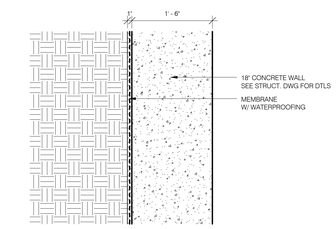
MATERIALS	R-VALUE
INTERIOR AIR FILM	R-0.92
10" CONCRETE SLAB	R-0.625
MEMBRANE	-
TOTAL R-VALUE	1.545
TOTAL F-VALUE (BASELINE - 6" SLAB)	0.73

SLAB ON GRADE - FOUNDATION | 1" = 1'-0" | 2 | EN-350.00



MATERIALS	R-VALUE
INTERIOR AIR FILM	R-0.92
3/4" ENGINEERED WOOD	R-0.33
1" PLYWOOD	R-1.25
LEVELING COMPOUND	-
5MM R.U.	-
10" CONCRETE SLAB	R-0.50
4" EXTRUDED POLYSTYRENE	R-17
METAL RAINSCREEN	-
EXTERIOR AIR FILM	R-0.17
TOTAL R-VALUE	20.17
TOTAL U-VALUE	0.050

FLOORS - WIND FLOORS | 1" = 1'-0" | 5 | EN-350.00



MATERIALS	R-VALUE
18" CONCRETE WALL	R-1.125
MEMBRANE	-
INTERIOR AIR FILM	R-0.68
TOTAL R-VALUE	1.805
TOTAL C-VALUE (BASELINE)	1.14

WALL - FOUNDATION | 1" = 1'-0" | 1 | EN-350.00

JDS DEVELOPMENT GROUP

DEVELOPER
JDS DEVELOPMENT GROUP
104 FIFTH AVENUE, 9TH FLR
NEW YORK, NY 10011
tel 646.625.3640

shop

ARCHITECT
ShoP ARCHITECTS, P.C.
232 BROADWAY, 11TH FLOOR
NEW YORK, NY 10279
tel 212.889.9005

JBB JAROS BAUM & BOLLES

MEP ENGINEER
JAROS, BAUM & BOLLES
60 PINE STREET, 10TH FLOOR
NEW YORK, NY 10005
tel 212.530.5000

WSP CANTOR SEINUK STRUCTURAL ENGINEERS

STRUCTURAL ENGINEER
WSP CANTOR SEINUK
235 WEST 40TH STREET
NEW YORK, NY 10017
tel 212.687.9888

Mueser Rutledge Consulting Engineers

GEOTECHNICAL ENGINEER
MRCE
253 WEST 34TH STREET 8TH FLOOR
NEW YORK, NY 10122
tel 917.339.9300

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CIVIL ENGINEER
AKRF
440 PARK AVE SOUTH 7TH FLOOR
NEW YORK, NY 10016
tel 646.388.9928

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VERTICAL TRANSPORTATION
VAN DEUSEN & ASSOCIATES
130 EAGLE ROCK AVE SUITE 310
EAST HANOVER, NJ 07936
tel 646.625.3640

Thornton Tomasetti

FACADE ENGINEER
THORNTON TOMASETTI
51 MADISON AVE #19
NEW YORK, NY 10010
tel 917.661.7800

GACHOT

INTERIORS
GACHOT
594 BROADWAY SUITE 509
NEW YORK, NY 10012
tel 646.666.0846

JHPA JAN HIRD POKORNY ASSOCIATES

HISTORIC PRESERVATION
JAN HIRD POKORNY ASSOCIATES
39 WEST 37TH ST., FLOOR 12A
NEW YORK, NY 10018
tel 212.759.6540

BOLD

LIGHTING
BOLD
237 WEST 35TH STREET
NEW YORK, NY 10001
tel 212.674.6500

Longman Lindsey

ACOUSTICAL ENGINEER
LONGMAN LINDSEY
1410 BROADWAY, SUITE 508
NEW YORK, NY 10018
tel 212.315.6400

ENTEK ENGINEERING LLC CONSULTING ENGINEERS

BMU ENGINEER
ENTEK ENGINNERING
196 AMES STREET
HACKENSACK, NJ 07601
tel 201.820.2602

SIMPSON GUMPERTZ & HEGER

DEMO STRUCT. ENGINEER
SIMPSON GUMPERTZ & HEGER
350 SEVENTH AVENUE, 10TH FLOOR
NEW YORK, NY 10018
tel 212.271.7500

VIDARIS

BUILDING ENERGY
VIDARIS
260 PARK AVENUE SOUTH, 15TH FLOOR
NEW YORK, NY 10010
tel 212.689.5389

BURO HAPPOLD ENGINEERING

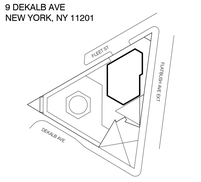
FIRE SAFETY ENGINEER
BURO HAPPOLD
100 BROADWAY
NEW YORK, NY 10005
tel 212.334.2025

TRACE POOL DESIGN

POOL
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NY 10604
tel 914.485.4290

9 DEKALB AVE

9 DEKALB AVE
NEW YORK, NY 11201



SITE DIAGRAM

07/15/16 DOB FILING SET

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DRAWING TITLE

DETAILS - FOUNDATION WALL, SLAB ON GRADE, WIND FLOOR CEILING, AND ROOF

SEAL & SIGNATURE

STATE OF NEW YORK — LICENSED PROFESSIONAL ENGINEER

DATE	07/15/16
PROJECT NO.	140429
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