DEPT OF BLDGS 121192397 Job Number

ES588735733 Scan Code

CULTURE SHED AT HUDSON YARDS

DOB AMENDMENT 5
APRIL 08, 2016

VOLUME I

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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ES656092772 Scan Code

VOLUME I - ARCHITECTURE

B-SCAN NUMBER	DRAWING NUMBER		06.16.2014 - ADVANCED PROCUREMENT BID SET	10.03.2014 - ADVANCED PROCUREMENT ADDENDUM 1	10.22.2014 - ADVANCED PROCUREMENT ADDENDUM 2	12.10.2014 - PRELIMINARY DOB SUBMISSION	01.16.2015 - ADVANCED PROCUREMENT ADDENDUM 3	02.16.2015 - 90% CONSTRUCTION DOCUMENTS	03.18.2015 - 100% CONSTRUCTION DOCUMENTS	04.10.2015 - ADVANCED PROCUREMENT ADDENDUM 5	07.22.2015 - ADDENDUM 1	08.03.2015 - DOB AMENDMENT 1	08.13.2015 - ADDENDUM 3	09.03.2015 - DOB AMENDMENT 2	09.11.2015 - ADDENDUM 4	09.16.2015 - DOB AMENDMENT 3	04.08.2016 - DOB AMENDMENT 5	06.30.2016 - DOB AMENDMENT 6
COVER																		
G-001.00	T-001.00	COVER SHEET	•	•	•	•	•	•	•		•	•		•		•	•	
G-002.00	T-002.00	DRAWING INDEX				•		•	•		•	•		•		•	•	
G-003.00	T-003.00	DRAWING INDEX CONTINUED	•			•			•		•	•		•		•	•	
ZONING																		
Z-000.00	Z-000.00	REFERENCE - ZONING FLOOR AREA MASTER PLAN							•			•		•		•		
Z-001.00	Z-001.00	ZONING REGULATIONS, ZONING MAP, ZONING ANALYSIS				•		•	•			•		•		•		
Z-002.00	Z-002.00	ZONING DIAGRAMS, LOT PLAN										•		•		•	•	
Z-003.00	Z-003.00	ZONING DIAGRAMS, SECTIONS										•		•		•	•	
Z-004.00	Z-004.00	ZONING USE KEY, ZONING FLOOR AREA AND RATIO CALCULATIONS, LEVEL 00, 011, 02 ZONING FLOOR AREA PLANS				•		•	•			•		•		•	•	
Z-005.00	Z-005.00	LEVEL 02, 03 ZONING FLOOR AREA												•		•	•	
Z-006.00	Z-006.00	LEVEL 05, 06 ZONING FLOOR AREA												•		•	•	
Z-007.00	Z-007.00	LEVELS 07, 08 ZONING FLOOR AREA												•		•	•	
Z-008.00	Z-008.00	LEVEL 09, 10, 67 ZONING FLOOR AREA												•		•	•	
Z-010.00	Z-010.00	TAX LOT SURVEYS				•		•	•			•		•		•		
Z-011.00	Z-011.00	TAX LOT SURVEYS										•		•		•		
Z-012.00	Z-012.00	LAND TITLE SURVEY										•		•		•		
Z-013.00	Z-013.00	SIGNAGE REGULATIONS										•		•		•		
Z-014.00	Z-014.00	FLOOD INSURANCE MAP										•		•		•		
Z-015.00	Z-015.00	FLOOD INSURANCE MAP										•		•		•		
Z-016.00	Z-016.00	FLOOD DESIGN				•		•	•			•		•		•		
Z-017.00	Z-017.00	FLOOD DESIGN				•		•	•			•		•		•		
ENERGY CODE COMPLIANCE																		
EN-001.00	EN-001.00	ENERGY CODE SUPPORTING INFORMATION				•		•				•		•		•	•	•
EN-100.00	EN-100.00	ENERGY PLAN C1 & 00 LEVEL PLANS - TD BASEMENT												•	•	•		
EN-101.00	EN-101.00	ENERGY PLAN 01 & 02 LEVEL PLANS												•		•	•	
EN-102.00	EN-102.00	ENERGY PLAN 03 & 04 LEVEL PLANS												•		•	•	
EN-103.00	EN-103.00	ENERGY PLAN 09 & 10 LEVEL PLANS												•		•		
EN-110.00	EN-110.00	ENERGY CODE SUPPORTING INFORMATION BUILDING ELEVATIONS												•		•		
EN-111.00	EN-111.00	ENERGY CODE SUPPORTING INFORMATION BUILDING ELEVATIONS DIAGRAMS																•
EN-120.00	EN-120.00	ENERGY CODE SUPPORTING INFORMATION - U-VALUE DETAILS												•		•		
EN-121.00	EN-121.00	ENERGY CODE SUPPORTING INFORMATION - U-VALUE DETAILS												•			•	
EN-130.00	EN-130.00	ENERGY CODE SUPPORTING INFORMATION - SEALING & AIR BARRIER DETAILS												•		•		
EN-131.00	EN-131.00	ENERGY CODE SUPPORTING INFORMATION - SEALING & AIR BARRIER DETAILS												•		•		
EN-132.00	EN-132.00	ENERGY CODE SUPPORTING INFORMATION - SEALING & AIR BARRIER DETAILS												•		•		
EN-133.00	EN-133.00	ENERGY CODE SUPPORTING INFORMATION PLAZA DETAILS												•		•	•	
EN-134.00	EN-134.00	ENERGY CODE SUPPORTING INFORMATION - SEALING & AIR BARRIER DETAILS												•		•	•	
EN-135.00	EN-135.00	ENERGY CODE SUPPORTING INFORMATION - SEALING & AIR BARRIER DETAILS												•		•		
EN-140.00	EN-140.00	ENERGY CODE SUPPORTING INFORMATION - LOADING DOCK DETAILS												•		•		
EN-150.00	EN-150.00	ENERGY CODE SUPPORTING INFORMATION - SEALING & AIR BARRIER DETAILS												•			•	
EN-151.00	EN-151.00	ENERGY CODE SUPPORTING INFORMATION - SEALING & AIR BARRIER DETAILS												•			•	
EN-152.00	EN-152.00	ENERGY CODE SUPPORTING INFORMATION - SEALING & AIR BARRIER DETAILS												•			•	
EN-153.00	EN-153.00	ENERGY CODE SUPPORTING INFORMATION - SEALING & AIR BARRIER DETAILS												•			•	
EN-200.00	EN-003.00	**ELECTRICAL LIGHTING FIXTURE SCHEDULE SHEET**				•		•						•		•		•
EN-201.00	EN-099.00	**ELECTRICAL LIGHTING FIXTURE SCHEDULE SHEET**				•		•						•		•		
EN-202.00	EN-200.00	**LIGHTING POWER DENSITY CALCULATIONS**				•		•						•		•	•	
EN-203.00	EN-201.00	ELECTRICAL LIGHTING PLAN FIXED BUILDING LEVEL **C1**				•		•						•		•		
EN-204.00	EN-202A.00	ELECTRICAL LIGHTING PLAN FIXED BUILDING LEVEL **00**				•		•						•		•		
EN-205.00	EN-203.00	ELECTRICAL LIGHTING PLAN FIXED BUILDING LEVEL **01**				•		•						•		•		
EN-206.00	EN-204.00	ELECTRICAL LIGHTING PLAN FIXED BUILDING LEVEL **02**				•		•						•		•	•	
EN-207.00	EN-205.00	ELECTRICAL LIGHTING PLAN FIXED BUILDING LEVEL **03**				•		•						•		•	•	
EN-208.00	EN-206.00	ELECTRICAL LIGHTING PLAN FIXED BUILDING LEVEL **04**				•		•						•		•	•	
EN-209.00	EN-207.00	ELECTRICAL LIGHTING PLAN FIXED BUILDING LEVEL **05**				•		•						•		•	•	
EN-210.00	EN-208A.00	ELECTRICAL LIGHTING PLAN FIXED BUILDING LEVEL **06**				•		•						•		•	•	
EN-211.00	EN-208B.00	ELECTRICAL LIGHTING PLAN DEPLOYED SHED **07**				•		•						•		•	•	
EN-212.00	EN-209A.00	ELECTRICAL LIGHTING PLAN FIXED BUILDING LEVEL **08**				•		•						•		•	•	
EN-213.00	EN-209B.00	ELECTRICAL LIGHTING PLAN DEPLOYED SHED				•		•						•			•	
EN-214.00	EN-261.00	ELECTRICAL LIGHTING PLAN SHED SOUTH ELEVATION				•		•						•				
EN-215.00	EN-262.00	ELECTRICAL LIGHTING PLAN DEPLOYED SHED MECHANICAL DECK				•		•						•			•	
EN-216.00	EN-263.00	ELECTRICAL LIGHTING PLAN FIXED BUILDING ROOF				•		•						•			•	
EN-218.00	EN-262.00	ELECTRICAL LIGHTING PLAN DEPLOYED SHED SOUTH ELEVATION															•	
EN-219.00	EN-263.00	ELECTRICAL LIGHTING PLAN DEPLOYED SHED NORTH ELEVATION															•	
EN-220.00	EN-263.00	ELECTRICAL LIGHTING PLAN DEPLOYED SHED EAST ELEVATION															•	
ARCHITECTURE																		
A-001.00	A-001.00	GENERAL NOTES AND ABBREVIATIONS				•		•	•		•	•				•		
A-002.00	A-002.00	SYMBOLS AND MATERIAL LEGEND				•		•	•		•	•				•		
A-003.00	A-003.00	BUILDING CODE NOTES				•		•	•			•				•	•	
A-004.00	A-004.00	ADA DETAILS & TYP. MOUNTING HEIGHTS				•		•	•			•				•		
A-005.00	A-005.00	PLUMBING FIXTURE COUNT				•		•	•			•				•	•	
A-006.00	A-006.00	EQUIPMENT & FIXTURE SCHEDULES				•		•	•		•	•				•		
A-007.00	A-007.00	DOOR SCHEDULE				•		•	•			•	•			•		
A-008.00	A-008.00	DOOR SCHEDULE/DOOR TYPES				•		•	•			•	•			•		
A-011.00	A-011.00	SITE PLAN DEPLOYED				•		•	•			•				•	•	
A-012.00	A-012.00	SITE PLAN NESTED				•		•	•			•					•	
A-013.00	A-013.00	SITE ELEVATION - SOUTH				•		•	•			•				•	•	
A-029.00	A-0C1.00	LIFE SAFETY PLAN C1 LEVEL PLAN-TD CELLAR				•		•	•		•	•				•		
A-030.00	A-030.00	LIFE SAFETY PLAN 00 LEVEL PLAN-TD BASEMENT				•		•	•		•	•				•		
A-031.00	A-031.00	LIFE SAFETY PLAN 01 LEVEL				•		•	•		•	•				•		
A-032.00	A-032.00	LIFE SAFETY PLAN 02 LEVEL				•		•	•		•	•				•	•	
A-033.00	A-033.00	LIFE SAFETY PLAN 03 LEVEL				•		•	•		•	•				•	•	
A-034.00	A-034.00	LIFE SAFETY PLAN 04 LEVEL				•		•	•		•	•				•	•	
A-035.00	A-035.00	LIFE SAFETY PLAN 05 LEVEL				•		•	•		•	•				•	•	
A-036.00	A-036.00	LIFE SAFETY PLAN 06 LEVEL				•		•	•		•	•				•	•	
A-037.00	A-037.00	LIFE SAFETY PLAN 07 LEVEL				•		•	•		•	•				•	•	
A-038.00	A-038.00	LIFE SAFETY PLAN 08 LEVEL				•		•	•		•	•				•	•	
A-039.00	A-039.00	LIFE SAFETY PLAN 09 LEVEL/ROOF PLAN - DEPLOYED				•		•	•		•	•				•	•	
A-040.00	A-040.00	LIFE SAFETY PLAN 09 LEVEL/ROOF PLAN - NESTED									•	•					•	
A-041.00	A-041.00	LIFE SAFETY PLAN 10 LEVEL/ROOF PLAN				•		•	•		•	•				•	•	
A-042.00	A-042.00	LIFE SAFETY SECTIONS										•				•	•	
DM-099.00	DM-1C1.00	DEMOLITION PLAN FIXED BUILDING LEVEL C1				•		•	•			•				•		
DM-100.00	DM-100.00	DEMOLITION PLAN FIXED BUILDING LEVEL 00				•		•	•			•				•		
DM-101.00	DM-101.00	DEMOLITION PLAN FIXED BUILDING LEVEL 01				•		•	•			•				•		
DM-102.00	DM-102.00	DEMOLITION PLAN FIXED BUILDING & SHED PLAZA LEVEL 02				•		•	•			•				•		
A-099.00	A-1C1.00	FLOOR PLAN FIXED BUILDING C1				•		•	•		•	•				•	•	
A-100.00	A-100.00	FLOOR PLAN FIXED BUILDING 00 LEVEL (TD BASEMENT)				•		•	•		•	•				•	•	
A-101.00	A-101.00	FLOOR PLAN FIXED BUILDING 01 LEVEL				•		•	•		•	•				•	•	
A-102.00	A-102A.00	FLOOR PLAN FIXED BUILDING 02 LEVEL				•		•	•		•	•				•	•	
A-103.00	A-102B.00	FLOOR PLAN PLAZA LEVEL				•		•	•		•	•				•	•	
A-104.00	A-102C.00	FLOOR PLAN PLAZA - SUBSURFACE				•		•	•		•	•				•	•	
A-105.00	A-103.00	FLOOR PLAN FIXED BUILDING 03 LEVEL				•		•	•		•	•				•	•	
A-106.00	A-104.00	FLOOR PLAN FIXED BUILDING 04 LEVEL				•		•	•		•	•				•	•	
A-107.00	A-105.00	FLOOR PLAN FIXED BUILDING 05 LEVEL				•		•	•		•	•				•	•	
A-108.00	A-106.00	FLOOR PLAN FIXED BUILDING 06 LEVEL				•		•	•		•	•				•	•	
A-109.00	A-107.00	FLOOR PLAN FIXED BUILDING 07 LEVEL				•		•	•		•	•				•	•	
A-110.00	A-108.00	FLOOR PLAN FIXED BUILDING 08 LEVEL				•		•	•		•	•				•	•	
A-111.00	A-109A.00	FLOOR + ROOF PLAN FIXED BUILDING 09 LEVEL	•			•		•	•		•	•				•	•	
A-112.00	A-109B.00	FLOOR PLAN - DEPLOYED SHED - MECHANICAL LEVEL	•			•		•	•		•	•				•		
A-113.00	A-110A.00	FLOOR PLAN TOWER D LEVEL 10 & LEVEL 11				•		•	•		•	•				•		
A-114.00	A-110B.00	ROOF PLAN DEPLOYED SHED	•			•		•	•		•	•				•		
A-115.00	A-111.00	FLOOR PLAN TOWER D - LEVEL 67 & LEVEL 69				•		•	•		•	•				•		
A-139.00	A-14C1.00	INTERIOR FINISH FLOOR FIXED BLDG C1				•		•	•			•				•		
A-140.00	A-140.00	INTERIOR FINISH FLOOR PLAN FIXED BUILDING 00 LEVEL				•		•	•			•				•		
A-141.00	A-141.00	INTERIOR FINISH FLOOR PLAN FIXED BUILDING 01 LEVEL				•		•	•			•				•		
A-142.00	A-142.00	INTERIOR FINISH FLOOR PLAN FIXED BUILDING 02 LEVEL				•		•	•			•				•	•	
A-143.00	A-143.00	INTERIOR FINISH FLOOR PLAN FIXED BUILDING 03 LEVEL				•		•	•			•				•	•	
A-144.00	A-144.00	INTERIOR FINISH FLOOR PLAN FIXED BUILDING 04 LEVEL				•		•	•			•				•	•	
A-145.00	A-145.00	INTERIOR FINISH FLOOR PLAN FIXED BUILDING 05 LEVEL				•		•	•			•				•	•	
A-146.00	A-146.00	INTERIOR FINISH FLOOR PLAN FIXED BUILDING 06 LEVEL				•		•	•			•				•	•	
A-147.00	A-147.00	INTERIOR FINISH FLOOR PLAN FIXED BUILDING 07 LEVEL				•		•	•			•				•	•	
A-148.00	A-148.00	INTERIOR FINISH FLOOR PLAN FIXED BUILDING 08 LEVEL				•		•	•			•				•	•	
A-149.00	A-149.00	INTERIOR FINISH PLAN FIXED BUILDING 09 LEVEL				•		•	•			•				•	•	
A-150.00	A-150.00	INTERIOR FINISH PLAN TOWER D LEVEL 10 & LEVEL 11				•		•	•			•				•		
A-151.00	A-151.00	INTERIOR FINISH PLAN TOWER D - LEVEL 67				•		•	•			•				•		
A-199.00	A-2C1.00	RCP FIXED BUILDING C01 LEVEL				•		•	•		•	•				•		
A-200.00	A-200.00	RCP FIXED BUILDING 00 LEVEL				•		•	•		•	•	•			•		
A-201.00	A-201.00	RCP FIXED BUILDING 01 LEVEL				•		•	•		•	•				•		
A-202.00	A-202.00	RCP FIXED BUILDING 02 LEVEL				•		•	•		•	•				•	•	
A-203.00	A-203.00	RCP FIXED BUILDING 03 LEVEL				•		•	•		•	•				•	•	
A-204.00	A-204.00	RCP FIXED BUILDING 04 LEVEL				•		•	•		•	•				•	•	
A-205.00	A-205.00	RCP FIXED BUILDING 05 LEVEL				•		•	•		•	•				•	•	
A-206.00	A-206.00	RCP FIXED BUILDING 06 LEVEL				•		•	•		•	•				•	•	
A-207.00	A-207.00	RCP FIXED BUILDING 07 LEVEL				•		•	•		•	•				•	•	
A-208.00	A-208.00	RCP FIXED BUILDING 08 LEVEL				•		•	•		•	•				•	•	
A-209.00	A-208B.00	RCP DEPLOYED SHED	•			•		•	•		•	•				•	•	
A-210.00	A-209.00	RCP FIXED BUILDING 09 - 10 LEVEL				•		•	•		•	•				•		
A-211.00	A-209B.00	RCP DEPLOYED SHED MECHANICAL DECK	•			•		•	•		•	•				•	•	
A-212.00	A-211.00	RCP FIXED BUILDING 67 LEVEL				•		•	•		•	•				•		
A-301.00	A-301.00	ELEVATION FIXED BUILDING SOUTH & 30TH ST STOREFRONT	•	•		•	•	•	•			•				•		
A-302.00	A-302.00	ELEVATION FIXED BUILDING NORTH	•	•		•	•	•	•			•				•		
A-303.00	A-303.00	ELEVATION FIXED BUILDING EAST	•			•		•	•			•				•		
A-331.00	A-331.00	SECTIONS FIXED BUILDING EAST/WEST + CLERESTORY ELEVATIONS				•		•	•			•				•		
A-332.00	A-332.00	SECTION FIXED BUILDING EAST/WEST				•		•	•			•				•		
A-333.00	A-333.00	SECTION FIXED BUILDING EAST/WEST				•		•	•			•				•		
A-334.00	A-334.00	SECTION FIXED BUILDING EAST/WEST SHED DEPLOYED				•		•	•			•				•		
A-335.00	A-335.00	SECTION FIXED BUILDING EAST/WEST				•		•	•			•				•		
A-336.00	A-336.00	SECTION FIXED BUILDING EAST/WEST				•		•	•			•				•		
A-341.00	A-341.00	SECTION FIXED BUILDING NORTH/SOUTH				•		•	•			•				•		
A-342.00	A-342.00	SECTION FIXED BUILDING NORTH/SOUTH				•		•	•			•				•		
A-343.00	A-343.00	SECTION FIXED BUILDING NORTH/SOUTH DEPLOYED				•		•	•			•						
A-344.00	A-344.00	SECTION FULL BUILDING DEPLOYED														•		
A-400.00	A-400.00	EXTERIOR WALL SYSTEM 03 FIXED BLDG SOUTH CORE GLAZING	•	•		•	•	•	•			•				•		
A-401.00	A-401.00	EXTERIOR WALL SYSTEM 02 FIXED BLDG SOUTH CABLE WALL	•			•	•	•	•			•				•		
A-402.00	A-402.00	EXTERIOR WALL SYSTEM 02 FIXED BLDG SOUTH CABLE WALL SECTIONS	•			•	•	•	•			•				•		
A-403.00	A-403.00	EXTERIOR WALL SYSTEM 03 FIXED BLDG SOUTH STRAP GLAZING	•			•	•	•	•		•	•				•		

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B-SCAN NUMBER	DRAWING NUMBER		06.16.2014 - ADVANCED PROCUREMENT BID SET	10.03.2014 - ADVANCED PROCUREMENT ADDENDUM 1	10.22.2014 - ADVANCED PROCUREMENT ADDENDUM 2	12.10.2014 - PRELIMINARY DOB SUBMISSION	01.16.2015 - ADVANCED PROCUREMENT ADDENDUM 3	02.16.2015 - 90% CONSTRUCTION DOCUMENTS	03.18.2015 - 100% CONSTRUCTION DOCUMENTS	04.10.2015 - ADVANCED PROCUREMENT ADDENDUM 5	07.22.2015 - ADDENDUM 1	08.03.2015 - DOB AMENDMENT 1	08.13.2015 - ADDENDUM 3	09.03.2015 - DOB AMENDMENT 2	09.11.2015 - ADDENDUM 4	09.16.2015 - DOB AMENDMENT 3	04.08.2016 - DOB AMENDMENT 5	06.30.2016 - DOB AMENDMENT 6
A-404.00	A-404.00	EXTERIOR WALL SYSTEM 03 FIXED BDLG NORTH CORE GLAZING	•	•		•	•	•	•			•				•		
A-405.00	A-405.00	EXTERIOR WALL SYSTEM 02 FIXED BDLG NORTH CABLE WALL GLAZING	•			•	•	•	•			•				•		
A-406.00	A-406.00	EXTERIOR WALL SYSTEM 03 FIXED BDLG NORTH STRAP GLAZING	•			•	•	•	•		•	•				•		
A-407.00	A-407.00	EXTERIOR WALL SYSTEM 04 FIXED BLDG EAST WALL	•			•		•	•		•	•				•		
A-408.00	A-408.00	EXTERIOR WALL SYSTEM 04 FIXED BLDG EAST WALL SECTIONS	•			•		•	•			•				•		
A-409.00	A-409.00	ELEVATION FIXED BLDG SOUTH GLAZING REMOVED	•	•		•	•	•	•		•	•				•		
A-414.00	A-414.00	ENLARGED ROOF PLAN LEVEL 01		•		•		•	•		•	•				•		
A-415.00	A-415.00	EXTERIOR WALL SYSTEMS - LOBBY	•	•		•		•	•			•				•		
A-416.00	A-416.00	EXTERIOR WALL SYSTEM 05 - 30TH ST. LOBBY STOREFRONT	•	•		•	•	•	•			•				•		
A-417.00	A-417.00	EXTERIOR WALL SYSTEM 11 - LOBBY SKYLIGHT	•	•		•		•	•			•				•		
A-418.00	A-429.00	EXTERIOR WALL SYSTEM 5B - 30TH ST STOREFRONT CANOPY		•		•	•	•	•			•				•		
A-419.00	A-419.00	EXTERIOR WALL SYSTEM 06 - 31ST STREET				•	•	•	•			•				•		
A-420.00	A-420.00	EXTERIOR WALL SYSTEM 06 - 31ST STREET				•	•	•	•			•				•		
A-421.00	A-421.00	EXTERIOR WALL SYSTEMS - FIXED BLDG ROOF	•			•		•	•			•				•	•	
A-422.00	A-422.00	EXTERIOR WALL SYSTEM 08 - GALLERY 4	•			•	•	•				•				•		
A-424.00	A-425.00	EXTERIOR WALL SYSTEM 12 - SKYLIGHT	•			•	•	•	•			•				•		
A-425.00	A-426.00	EXTERIOR WALL SYSTEM 5 - 30TH ST STOREFRONT	•	•		•	•	•	•			•				•		
A-426.00	A-426B.00	EWS-9 30TH STREET BOH EXTERIOR WALL SECTIONS				•	•	•	•		•	•			•	•		
A-427.00	A-427.00	EXTERIOR WALL SYSTEM 5 - 30TH ST STOREFRONT	•	•		•		•	•			•				•		
A-428.00	A-428.00	EXTERIOR WALL SYSTEM 5B - 30TH ST STOREFRONT CANOPY	•	•		•	•	•	•			•				•		
A-429.00	A-428B.00	EXTERIOR WALL SYSTEM 5A - 30TH ST STOREFRONT ENTRANCE		•		•	•	•	•			•				•		
A-430.00	A-430.00	EWS-2 / EWS-3 SECTION DETAILS SOUTH WALL - LEVEL 02	•			•		•	•			•				•		
A-431.00	A-431.00	EWS-2 / EWS-3 SECTION DETAILS SOUTH WALL - LEVEL 02	•			•		•	•		•	•				•		
A-432.00	A-432.00	EWS-2 / EWS-3 SECTION DETAILS SOUTH WALL - LEVEL 04	•			•		•	•		•	•				•		
A-433.00	A-433.00	EWS-2 / EWS-3 SECTION DETAILS SOUTH WALL - LEVEL 06	•			•		•	•		•	•				•		
A-434.00	A-434.00	EWS-2 / EWS-3 SECTION DETAILS SOUTH WALL - LEVEL 06	•			•		•	•		•	•				•		
A-435.00	A-435.00	EWS-2 / EWS-3 SECTION DETAILS SOUTH WALL - LEVEL 08	•			•		•	•		•	•				•		
A-436.00	A-436.00	EWS-3 SECTION DETAILS AT STRAP GLAZING	•			•		•	•			•				•		
A-437.00	A-437.00	EWS-2 / EWS-3 SECTION DETAILS SOUTH WALL - ROOF	•			•		•	•			•				•		
A-438.00	A-438.00	EWS-2 DETAILS AT ESCALATOR TOP LANDING	•			•	•	•	•			•				•		
A-439.00	A-439.00	EWS-2 DETAILS AT ESCALATOR BOTTOM LANDING	•			•	•	•	•			•				•		
A-440.00	A-440.00	EWS-2 / EWS-3 PLAN DETAILS SOUTH WALL	•	•		•	•	•	•		•	•				•		
A-441.00	A-441.00	EWS-2 SECTION DETAILS NORTH WALL - LEVEL 02	•			•		•	•		•	•				•		
A-442.00	A-442.00	EWS-3 SECTION DETAILS NORTH WALL - LEVEL 02	•			•		•	•			•				•		
A-443.00	A-443.00	EWS-2 / EWS-3 SECTION DETAILS NORTH WALL - LEVEL 04 AND 06	•			•		•	•		•	•				•		
A-444.00	A-444.00	EWS-2 / EWS-3 SECTION DETAILS NORTH WALL - LEVEL 8	•			•		•	•		•	•				•		
A-445.00	A-445.00	EWS-2 / EWS-3 SECTION DETAILS NORTH WALL - ROOF	•			•		•	•			•				•		
A-446.00	A-446.00	EWS-2 TYPICAL DETAILS NORTH WALL	•			•	•	•	•			•				•		
A-447.00	A-447.00	EWS-2 / EWS-3 PLAN DETAILS NORTH WALL	•	•		•	•	•	•		•	•				•		
A-448.00	A-448.00	EWS-2 / EWS-3 TYPICAL CLAMP FITTING DETAILS	•			•		•	•			•				•		
A-450.00	A-450.00	EWS-4 SECTION DETAILS EAST WALL	•			•		•	•		•	•				•		
A-451.00	A-451.00	EWS-4 SECTION DETAILS EAST WALL		•		•		•	•		•	•				•		
A-454.00	A-454.00	EWS-4 EAST WALL PLAN DETAILS GUILLOTINE DOOR	•			•		•	•			•				•		
A-455.00	A-455.00	EWS-4 EAST WALL PLAN DETAILS	•			•		•	•		•	•				•		
A-458.00	A-460.00	EWS-5 AND LOBBY ROOF	•	•		•		•	•		•	•			•	•		
A-459.00	A-461.00	EWS-5B 30TH STREET CANOPY DETAILS	•	•		•	•	•	•			•				•		
A-461.00	A-462.00	EWS-11 SKYLIGHT AND LOBBY ROOF	•	•		•		•	•		•	•				•		
A-462.00	A-463.00	EWS-7 CLERESTORY AND EWS-13 PLAZA EDGE SOUTH WALL		•		•		•	•		•	•				•		
A-463.00	A-464.00	EWS-9 30TH STREET BOH DETAILS				•	•	•	•		•	•			•	•		
A-464.00	A-464B.00	EWS-9 30TH STREET BOH DETAILS				•	•	•	•		•	•				•		
A-470.00	A-470.00	EXTERIOR DETAILS FIXED BUILDING EWS 08 AND EMP 01	•			•	•	•				•				•		
A-475.00	A-475.00	EXTERIOR DETAILS FIXED BLDG EWS- 12 SKYLIGHT	•			•	•	•	•		•	•				•		

VOLUME II - ARCHITECTURE

B-SCAN NUMBER	DRAWING NUMBER		06.16.2014 - ADVANCED PROCUREMENT BID SET	10.03.2014 - ADVANCED PROCUREMENT ADDENDUM 1	10.22.2014 - ADVANCED PROCUREMENT ADDENDUM 2	12.10.2014 - PRELIMINARY DOB SUBMISSION	01.16.2015 - ADVANCED PROCUREMENT ADDENDUM 3	02.16.2015 - 90% CONSTRUCTION DOCUMENTS	03.18.2015 - 100% CONSTRUCTION DOCUMENTS	04.10.2015 - ADVANCED PROCUREMENT ADDENDUM 5	07.22.2015 - ADDENDUM 1	08.03.2015 - DOB AMENDMENT 1	08.13.2015 - ADDENDUM 3	09.03.2015 - DOB AMENDMENT 2	09.11.2015 - ADDENDUM 4	09.16.2015 - DOB AMENDMENT 3	04.08.2016 - DOB AMENDMENT 5	06.30.2016 - DOB AMENDMENT 6
A-500.00	A-500.00	AXONOMETRIC VIEW - SHED OVERALL	•			•		•	•			•					•	
A-501.00	A-501.00	AXONOMETRIC VIEW - SHED OVERALL	•			•		•	•			•					•	
A-502.00	A-502.00	AXONOMETRIC - EXTENT OF CLADDING DIAGRAM	•			•		•	•			•					•	
A-503.00	A-503.00	AXONOMETRIC VIEW - PARTIAL VIEWS OF THEATRICAL DECK	•			•		•	•			•					•	
A-504.00	A-504.00	AXONOMETRIC VIEW - PARTIAL VIEWS OF THEATRICAL DECK	•			•		•	•			•					•	
A-505.00	A-505.00	AXONOMETRIC VIEW - AT BOGIES	•			•		•	•			•					•	
A-507.00	A-507.00	EXTERIOR ELEVATION - SOUTH	•			•		•	•			•					•	
A-508.00	A-508.00	EXTERIOR ELEVATION - EAST	•			•		•	•			•					•	
A-509.00	A-509.00	EXTERIOR ELEVATION - NORTH	•		•	•		•	•			•					•	
A-510.00	A-510.00	EXTERIOR ELEVATION - WEST	•			•		•	•			•					•	
A-511.00	A-511.00	ELEVATION SHED STEEL SOUTH	•			•		•	•			•					•	
A-512.00	A-512.00	ELEVATION SHED STEEL NORTH	•			•		•	•			•					•	
A-513.00	A-513.00	ELEVATION SHED STEEL EAST	•			•		•	•			•					•	
A-514.00	A-514.00	BUILDING SECTION SHED NORTH/SOUTH	•			•		•	•			•					•	
A-515.00	A-515.00	BUILDING SECTION SHED NORTH/SOUTH	•			•		•	•			•					•	
A-516.00	A-516.00	BUILDING SECTION - EAST / WEST	•			•		•	•			•					•	
A-517.00	A-517.00	WALL SECTION @ ROOF EDGE	•			•		•	•		•	•					•	
A-518.00	A-518.00	WALL SECTION @ THEATRICAL DECK	•			•		•	•			•					•	
A-519.00	A-519.00	WALL SECTIONS / ELEVATIONS	•			•		•	•			•					•	
A-520.00	A-520.00	ENLARGED DRAWINGS - THEATRICAL DECK / EAST	•			•		•	•		•	•					•	
A-521.00	A-521.00	ENLARGED DRAWINGS - THEATRICAL DECK / EAST	•			•		•	•		•	•					•	
A-522.00	A-522A.00	ENLARGED DRAWINGS -THEATRICAL DECK / WEST	•			•		•	•		•	•					•	
A-523.00	A-523.00	ENLARGED DRAWINGS - SHED WEST ACCESS STAIRS	•			•		•	•		•	•					•	
A-524.00	A-524.00	ENLARGED DRAWINGS - RETRACTABLE AIR DUCT ASSEMBLY	•			•		•	•		•	•					•	
A-525.00	A-525.00	ENLARGED DRAWINGS - SPECIAL THEATRICAL CURTAINS	•		•	•		•	•			•					•	
A-526.00	A-526.00	ENLARGED DRAWINGS - SPECIALTY THEATRICAL CURTAINS /SHADES - N/S	•		•	•		•	•			•					•	
A-527.00	A-527.00	ENLARGED DRAWINGS - SPECIALTY THEATRICAL CURTAINS /SHADES - E	•		•	•		•	•			•					•	
A-528.00	A-528.00	ENLARGED DRAWINGS - NORTH OPERABLE WALL	•			•		•	•			•					•	
A-529.00	A-529.00	ENLARGED DRAWINGS - SOUTH OPERABLE WALL	•			•		•	•			•					•	
A-530.00	A-530.00	ENLARGED DRAWINGS - OPERABLE DOORS E	•			•		•	•			•					•	
A-531.00	A-531.00	ENLARGED DRAWINGS - NON OPERABLE DOORS N/S	•			•		•	•			•					•	
A-550.00	A-550.00	DETAILS - THEATRICAL DECK EAST BMU PIT	•			•		•	•		•	•					•	
A-551.00	A-551.00	DETAILS - THEATRICAL DECK EAST - BMU PIT	•			•		•	•		•	•					•	
A-552.00	A-552.00	DETAILS - THEATRICAL DECK WEST	•			•		•	•		•	•					•	
A-554.00	A-554.00	DETAILS - RETRACTABLE AIR DUCT ASSEMBLY	•			•		•	•			•					•	
A-555.00	A-555.00	DETAILS - SPECIALTY THEATRICAL CURTAINS / SHADES	•		•	•		•	•			•					•	
A-556.00	A-556.00	DETAILS - SPECIALTY THEATRICAL CURTAINS / SHADES	•		•	•		•	•			•					•	
A-557.00	A-557.00	DETAILS - SPECIALTY THEATRICAL CURTAINS / SHADES	•		•	•		•	•			•					•	
A-558.00	A-558.00	DETAILS - SHED WEST ACCESS STAIRS	•			•		•	•			•					•	
A-559.00	A-559.00	DETAILS - SHED WEST ACCESS STAIRS	•			•		•	•			•					•	
A-560.00	A-560.00	TYP. FRAMING & CLADDING DETAILS - PLANS	•			•		•	•			•					•	
A-561.00	A-561.00	TYP. FRAMING & CLADDING DETAILS - PLANS	•			•		•	•			•					•	
A-562.00	A-562.00	TYP. FRAMING & CLADDING DETAILS - PLANS	•			•		•	•		•	•					•	
A-563.00	A-563.00	TYP. FRAMING & CLADDING DETAILS - PLANS	•			•		•	•			•					•	
A-564.00	A-564.00	TYP. FRAMING & CLADDING DETAILS - PLANS & SECTIONS	•			•		•	•			•					•	
A-565.00	A-565.00	TYP. FRAMING & CLADDING DETAILS - SECTIONS	•			•		•	•			•					•	
A-566.00	A-566.00	TYP. FRAMING & CLADDING DETAILS - SECTIONS	•			•		•	•			•					•	
A-567.00	A-567.00	DETAILS - DOOR / SHADE SLOT	•			•		•	•			•					•	
A-568.00	A-568.00	DETAILS - DOOR / SHADE SLOT	•			•		•	•			•					•	
A-570.00	A-570.00	DETAILS - ETFE CLADDING	•			•		•	•		•	•					•	
A-571.00	A-571.00	DETAILS - ETFE CLADDING	•			•		•	•			•					•	
A-572.00	A-572.00	DETAILS - ETFE CLADDING	•			•		•	•			•					•	
A-576.00	A-576.00	ELEMENTS DETAILS - SHED LIGHTING	•			•		•	•		•	•					•	
A-580.00	A-580.00	DETAILS - OPERABLE WALLS	•			•		•	•			•					•	
A-581.00	A-581.00	DETAILS - FIXED WALLS	•			•		•	•			•					•	
A-582.00	A-582.00	DETAILS - EGRESS DOORS	•			•		•	•			•					•	
A-583.00	A-583.00	DETAILS - EGRESS DOORS	•			•		•	•			•					•	
A-590.00	A-590.00	EXTERIOR DETAILS PLAZA				•		•	•			•					•	
A-591.00	A-591.00	EXTERIOR DETAILS PLAZA				•		•	•			•					•	
A-592.00	A-592.00	EXTERIOR DETAILS PLAZA - NORTH RAIL ASSEMBLY - E/W				•		•	•			•					•	
A-594.00	A-594.00	EXTERIOR DETAILS PLAZA - TYPICAL SECTIONS				•		•	•			•					•	
A-595.00	A-595.00	EXTERIOR DETAILS PLAZA - FLOOR BOX SECTIONS				•		•	•		•	•					•	
A-596.00	A-596.00	EXTERIOR DETAILS PLAZA - ENLARGED DETAILS				•		•				•					•	
A-597.00	A-597.00	EXTERIOR DETAILS PLAZA - ENLARGED DETAILS				•		•				•					•	
A-598.00	A-598.00	AXONOMETRIC VIEW - CAST BOGIE NODES ALT.	•			•		•				•					•	
A-599.00	A-599.00	EXTERIOR WALL SYSTEM VMU AND PMU MOCK UP	•			•		•				•					•	
A-600.00	A-600.00	CORE C PLANS - STAIR C				•		•	•		•	•				•		
A-601.00	A-601.00	CORE C SECTIONS - STAIR C				•		•	•		•	•				•		
A-602.00	A-602.00	CORE C PLANS, SECTIONS - ELEVATOR FE.C.1				•		•	•			•				•		
A-603.00	A-603.00	CORE D PLANS				•		•	•		•	•				•		
A-604.00	A-604.00	CORE D PLANS				•		•	•		•	•				•		
A-605.00	A-605.00	CORE D SECTIONS				•		•	•		•	•				•		
A-606.00	A-606.00	CORE D SECTIONS				•		•	•			•	•			•		
A-607.00	A-607.00	CORE E PLANS				•		•	•		•	•				•		
A-608.00	A-608.00	CORE E SECTIONS				•		•	•		•	•	•			•		
A-609.00	A-609.00	CORE F PLANS				•		•	•		•	•				•		
A-610.00	A-610.00	CORE F PLANS				•		•	•			•				•		
A-611.00	A-611.00	CORE F SECTIONS				•		•	•		•	•				•		
A-612.00	A-612.00	CORE F SECTIONS				•		•	•		•	•				•		
A-613.00	A-613.00	STAIR G PLANS				•		•	•			•				•		
A-614.00	A-614.00	STAIR G SECTIONS				•		•	•			•				•		
A-615.00	A-615.00	ESCALATORS PLANS				•		•	•			•	•			•		
A-616.00	A-616.00	ESCALATORS PLANS				•		•	•			•	•			•		
A-617.00	A-617.00	ESCALATORS SECTIONS				•		•	•		•	•	•			•		
A-618.00	A-618.00	ESCALATORS SECTIONS				•		•	•		•	•	•			•		
A-621.00	A-621.00	FE C.1. SECTION DETAILS				•		•	•			•	•					
A-622.00	A-622.00	FE C.1. PLAN DETAILS				•		•	•			•	•			•		
A-630.00	A-630.00	EGRESS STAIRS, GUARDRAIL AND HANDRAIL DETAIL						•	•		•	•				•		
A-631.00	A-631.00	MISC. GUARDRAIL / HANDRAIL DETAILS									•	•				•		
A-640.00	A-640.00	STAIR G DETAILS				•		•	•			•				•		
A-641.00	A-641.00	STAIR G DETAILS				•		•	•			•				•		
A-650.00	A-650.00	ESCALATORS - GUARDRAIL DETAILS							•			•	•			•		
A-651.00	A-651.00	ESCALATORS - FINISH DETAILS											•			•		
A-670.00	A-670.00	ENLARGED TOILET ROOM PLANS - 00 LEVEL				•		•	•		•	•				•		
A-671.00	A-671.00	ENLARGED TOILET ROOM ELEVATIONS - 00 LEVEL				•		•	•		•	•				•		
A-672.00	A-672.00	ENLARGED TOILET ROOM PLANS & ELEVATIONS - 01 LEVEL				•		•	•		•	•				•		
A-673.00	A-673.00	ENLARGED TOILET ROOM PLANS & ELEVATIONS - 01 LEVEL				•		•	•			•				•		
A-674.00	A-674.00	ENLARGED TOILET ROOM PLANS & ELEVATIONS - 04 LEVEL				•		•	•			•				•		
A-675.00	A-675.00	ENLARGED TOILET ROOM ELEVATIONS - 04 LEVEL				•		•	•			•				•		
A-676.00	A-676.00	ENLARGED TOILET ROOM PLANS & ELEVATIONS - 04 LEVEL				•		•	•			•				•		
A-677.00	A-677.00	ENLARGED TOILET ROOM PLANS & ELEVATIONS - 06 LEVEL				•		•	•			•				•		
A-678.00	A-678.00	ENLARGED TOILET ROOM ELEVATIONS - 06 LEVEL				•		•	•			•				•		
A-679.00	A-679.00	ENLARGED TOILET ROOM ELEVATIONS - 06 LEVEL				•		•	•			•				•		
A-680.00	A-680.00	ENLARGED TOILET ROOM PLANS & ELEVATIONS - 08 LEVEL				•		•	•			•				•		
A-681.00	A-681.00	ENLARGED TOILET ROOM PLANS & ELEVATIONS - 08 LEVEL				•		•	•			•				•		
A-700.00	A-700.00	ENLARGED PLAN/ELEVATIONS FIXED BUILDING - 00 LEVEL - LOBBY				•		•	•			•	•			•		
A-701.00	A-701.00	ENLARGED ELEVATIONS FIXED BUILDING - 00 LEVEL - LOBBY MISCELLANEOUS						•	•			•	•			•		
A-705.00	A-705.00	ENLARGED PLAN/ELEVATIONS FIXED BUILDING - 00 LEVEL - COAT CHECK						•	•			•				•		
A-707.00	A-707.00	ENLARGED PLAN/ELEVATIONS FIXED BUILDING - 00 LEVEL - LOADING DOCK				•		•	•		•	•				•		
A-712.00	A-712.00	ENLARGED PLAN/ELEVATIONS FIXED BUILDING - 01 LEVEL - LOUNGE / FLEX SPACE				•		•	•			•				•		
A-713.00	A-713.00	ENLARGED PLAN/ELEVATIONS FIXED BUILDING - 01 LEVEL - LOUNGE / FLEX SPACE				•		•	•			•				•		
A-714.00	A-714.00	ENLARGED PLAN/ELEVATIONS FIXED BUILDING - 01 LEVEL - LOUNGE / FLEX SPACE				•		•	•			•				•		
A-715.00	A-715.00	ENLARGED PLAN/ELEVATIONS FIXED BUILDING - 01 LEVEL - FACILITIES				•		•	•			•				•		
A-721.00	A-721.00	INTERIOR ELEVATIONS FIXED BUILDING - LEVEL 02 - GALLERY 01				•		•	•			•				•		
A-722.00	A-722.00	INTERIOR ELEVATIONS FIXED BUILDING - LEVEL 02 - ESCALATOR				•		•	•			•	•			•		
A-723.00	A-723.00	INTERIOR ELEVATIONS FIXED BUILDING - LEVEL 04 - GALLERY 02				•		•	•			•				•		
A-724.00	A-724.00	INTERIOR ELEVATIONS FIXED BUILDING - LEVEL 04 - ESCALATOR						•	•			•	•			•		
A-725.00	A-725.00	INTERIOR ELEVATIONS FIXED BUILDING - LEVEL 06 - GALLERY 03				•		•	•			•				•		
A-726.00	A-726.00	INTERIOR ELEVATIONS FIXED BUILDING - LEVEL 06 - ESCALATOR				•		•	•			•	•			•		
A-727.00	A-727.00	INTERIOR ELEVATIONS FIXED BUILDING - LEVEL 08 - GALLERY 04						•	•			•				•		
A-728.00	A-728.00	INTERIOR ELEVATIONS FIXED BUILDING - LEVEL 08 - ESCALATOR							•			•	•			•		
A-732.00	A-732.00	INTERIOR ELEVATIONS TD - 08 LEVEL - THEATRICAL BOH - DRESSING/GREEN RMS				•		•	•			•				•		
A-733.00	A-733.00	INTERIOR ELEVATIONS TD - 08 LEVEL - THEATRICAL BOH - ADA BATHROOMS				•		•	•			•				•		
A-735.00	A-735.00	ENLARGED PLAN/ELEVATIONS TD - 08 LEVEL - CS OFFICES PANTRY / RECEPTION				•		•	•			•				•		
A-736.00	A-736.00	INTERIOR ELEVATIONS TD - 08 LEVEL - CS OFFICES				•		•	•			•				•		
A-762.00	A-762.00	INTERIOR WALL SECTIONS - CABLE PASS SYSTEM						•	•		•	•				•		
A-800.00	A-800.00	PARTITION TYPES				•		•	•			•				•		
A-801.00	A-801.00	PARTITION TYPES				•		•	•			•				•		
A-802.00	A-802.00	PARTITION TYPES				•		•	•			•				•		
A-803.00	A-803.00	MISC PARTITION HEAD/SILL DETAILS				•		•	•			•				•		
A-804.00	A-804.00	MISC PARTITION FINISH DETAILS						•	•		•	•				•		
A-807.00	A-807.00	FLOOR DETAILS - TRANSITIONS + MISC				•		•	•			•				•		
A-808.00	A-808.00	FLOOR DETAILS - GALLERY 3 + MISC						•	•		•	•	•			•		
A-809.00	A-809.00	FLOOR DETAILS - BOLLARDS AND DOOR ACTUATORS							•			•				•		
A-810.00	A-810.00	GLAZING DETAILS - INTERIOR - FIXED				•		•	•			•				•		
A-813.00	A-813.00	GLAZING DETAILS - INTERIOR - SLIDING DOORS				•		•	•			•				•		
A-815.00	A-815.00	DOOR DETAILS - TYPICAL				•		•	•			•				•		
A-816.00	A-816.00	DOOR DETAILS - PUBLIC AREAS						•	•			•				•		
A-820.00	A-820.00	DOOR DETAILS - LOADING DOCK						•	•		•	•				•		
A-821.00	A-821.00	DOOR DETAILS - L08 FIRE DOOR				•		•	•			•				•		
A-822.00	A-822.00	DOOR DETAILS - GALLERY 3 SPECIALTY DOORS						•	•			•				•		
A-823.00	A-823.00	OPERABLE WALLS - GALLERY 3						•	•			•				•		
A-824.00	A-824.00	OPERABLE WALLS - GALLERY 3						•	•			•				•		
A-825.00	A-825.00	CABLE PASS DETAILS						•	•			•				•		
A-826.00	A-826.00	CABLE PASS DETAILS						•	•		•	•				•		
A-830.00	A-830.00	CEILING DETAILS - TYPICAL				•		•	•		•	•				•		
A-831.00	A-831.00	CEILING DETAILS - TYPICAL							•			•				•		
A-832.00	A-832.00	CEILING DETAILS - TYPICAL						•	•			•				•		
A-833.00	A-833.00	CEILING DETAILS - LOBBY							•		•	•				•		
A-834.00	A-834.00	CEILING DETAILS - LOBBY				•		•	•		•	•				•		
A-835.00	A-835.00	CEILING DETAILS - GALLERY TYPICAL						•	•			•				•		
A-836.00	A-836.00	CEILING DETAILS - GALLERY BAFFLE DETAILS				•		•	•			•				•		
A-837.00	A-837.00	CEILING DETAILS - GALLERIES 1 + 2				•		•	•		•	•				•		

VOLUME II CONTINUED - ARCHITECTURE

B-SCAN NUMBER	DRAWING NUMBER		06.16.2014 - ADVANCED PROCUREMENT BID SET	10.03.2014 - ADVANCED PROCUREMENT ADDENDUM 1	10.22.2014 - ADVANCED PROCUREMENT ADDENDUM 2	12.10.2014 - PRELIMINARY DOB SUBMISSION	01.16.2015 - ADVANCED PROCUREMENT ADDENDUM 3	02.16.2015 - 90% CONSTRUCTION DOCUMENTS	03.18.2015 - 100% CONSTRUCTION DOCUMENTS	04.10.2015 - ADVANCED PROCUREMENT ADDENDUM 5	07.22.2015 - ADDENDUM 1	08.03.2015 - DOB AMENDMENT 1	08.13.2015 - ADDENDUM 3	09.03.2015 - DOB AMENDMENT 2	04.08.2016 - DOB AMENDMENT 5	06.30.2016 - DOB AMENDMENT 6
A-839.00	A-839.00	CEILING DETAILS - GALLERY 3						•	•			•			•	
A-841.00	A-841.00	CEILING DETAILS - GALLERY 4						•	•			•			•	
A-842.00	A-842.00	CEILING DETAILS - OFFICES				•		•	•		•	•			•	
A-850.00	A-850.00	INTERIOR DETAILS - L00 LOBBY COAT CHECK						•	•			•			•	
A-851.00	A-851.00	INTERIOR DETAILS - L00 HIGH LINE COLUMN				•		•	•			•			•	
A-852.00	A-852.00	INTERIOR DETAILS - PUBLIC ELEVATORS						•	•			•	•		•	
A-853.00	A-853.00	INTERIOR DETAILS - L00 LOADING DOCK LIFT AND LEVELER				•		•	•			•			•	
A-854.00	A-854.00	INTERIOR DETAILS - L04 & L06 RESTROOM & THEATRICAL BOH TD INTERFACE				•		•	•		•	•			•	
A-860.00	A-860.00	INTERIOR DETAILS + MILLWORK - PUBLIC RESTROOMS						•	•		•	•			•	
A-861.00	A-861.00	MILLWORK DETAILS						•	•			•			•	
A-862.00	A-862.00	MILLWORK DETAILS - L00 & L01 LOBBY DESKS						•	•			•			•	
A-870.00	A-870.00	MILLWORK DETAILS - L08 OFFICES + PANTRY + MAILROOM						•	•		•	•			•	
A-871.00	A-871.00	MILLWORK DETAILS - L08 OFFICES						•	•			•			•	

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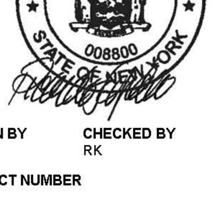
KEY PLAN

ISSUE △		PRINTING	DATE
55	44	DOB AMENDMENT 6	06.30.2016
44	33	DOB AMENDMENT 5	04.08.2016
19		DOB AMENDMENT 3	09.16.2015
13		DOB AMENDEMENT 1	08.03.2015
12	6	ADDENDUM 1	07.22.2015
10	4	100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

STAMP



DRAWN BY JD
CHECKED BY RK

PROJECT NUMBER
11017

TITLE
DRAWING INDEX

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
T-002.00

B-SCAN NO.
G-002.00

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VOLUME III - STRUCTURE

B-SCAN NUMBER	DRAWING NUMBER		06.16.2014 - ADVANCED PROCUREMENT BID SET	10.03.2014 - ADVANCED PROCUREMENT ADDENDUM 1	10.22.2014 - ADVANCED PROCUREMENT ADDENDUM 2	12.10.2014 - PRELIMINARY DOB SUBMISSION	01.16.2015 - ADVANCED PROCUREMENT ADDENDUM 3	02.16.2015 - 90% CONSTRUCTION DOCUMENTS	03.18.2015 - 100% CONSTRUCTION DOCUMENTS	04.10.2015 - ADVANCED PROCUREMENT ADDENDUM 5	07.22.2015 - ADDENDUM 1	08.03.2015 - DOB AMENDMENT 1	08.13.2015 - ADDENDUM 3	09.03.2015 - DOB AMENDMENT 2	09.11.2015 - ADDENDUM 4	09.16.2015 - DOB AMENDMENT 3	04.08.2016 - DOB AMENDMENT 5	06.30.2016 - DOB AMENDMENT 6
STRUCTURAL																		
S-001.00	S-001.00	COVER SHEET & DRAWING LIST	•	•		•		•	•	•						•	•	
S-002.00	S-002.00	STRUCTURAL GENERAL NOTES	•			•		•	•							•	•	
S-003.00	S-003.00	STRUCTURAL GENERAL NOTES II							•							•		
S-005.00	S-005.00	STEEL TOLERANCES - GLOBAL	•			•		•	•								•	
S-006.00	S-006.00	N/S WALL_ELEMENTS - STEEL TOLERANCES	•			•		•	•								•	
S-007.00	S-007.00	EAST WALL_ELEMENTS - STEEL TOLERANCES	•			•		•	•								•	
S-008.00	S-008.00	TYPICAL SECTIONS - STEEL TOLERANCES	•			•		•	•								•	
S-009.00	S-009.00	STEEL TOLERANCES - BOGIES	•			•		•	•								•	
S-010.00	S-010.00	STEEL TOLERANCES - NODES	•			•		•	•								•	
S-020.00	S-020.00	LAP SPLICE SCHEDULES	•			•		•	•							•		
S-030.00	S-030.00	LOAD DIAGRAMS I	•			•		•	•	•						•		
S-031.00	S-031.00	LOAD DIAGRAMS II	•			•		•	•	•						•		
S-032.00	S-032.00	LOADING DIAGRAMS III						•	•								•	
S-050.00	S-050.00	AXONOMETRIC - FIXED BUILDING (SE)	•	•		•		•	•	•						•		
S-051.00	S-051.00	AXONOMETRIC - FIXED BUILDING (NW)	•			•		•	•	•						•		
S-052.00	S-052.00	AXONOMETRIC - DEPLOYED SHED (SE)	•			•		•	•								•	
S-053.00	S-053.00	AXONOMETRIC - DEPLOYED SHED (NW)	•			•		•	•								•	
S-080.00	S-D100.00	DEMOLITION AND INFILL PLAN, FIXED BUILDING LEVEL 00	•	•		•		•	•	•						•		
S-081.00	S-D101.00	DEMOLITION AND INFILL PLAN, FIXED BUILDING LEVEL 01	•			•		•	•							•		
S-082.00	S-D102.00	DEMOLITION AND INFILL PLAN, FIXED BUILDING LEVEL 02	•			•		•	•	•						•		
S-099.00	S-1C1.00	FRAMING PLAN, FIXED BUILDING - CELLAR LEVEL	•	•		•		•	•	•						•		
S-100.00	S-100.00	FRAMING PLAN, FIXED BUILDING - LEVEL 00	•	•		•		•	•	•						•		
S-101.00	S-101.00	FRAMING PLAN, FIXED BUILDING - LEVEL 01	•	•		•		•	•	•						•		
S-102.00	S-102.00	FRAMING PLAN, FIXED BUILDING - LEVEL 02	•	•		•		•	•	•						•		
S-104.00	S-104.00	FRAMING PLAN, FIXED BUILDING - LEVEL 04	•	•		•		•	•	•						•		
S-106.00	S-106.00	FRAMING PLAN, FIXED BUILDING - LEVEL 06	•	•		•		•	•	•						•		
S-108.00	S-108.00	FRAMING PLAN, FIXED BUILDING - LEVEL 08	•	•		•		•	•	•						•		
S-109.00	S-109.00	FRAMING PLAN, FIXED BUILDING - LEVEL 09/ROOF	•			•		•	•	•						•		
S-110.00	S-110.00	FRAMING PLAN, FIXED BUILDING SLED DRIVE AND BMU TRACK	•			•		•	•	•						•		
S-152.00	S-152.00	FRAMING PLAN, DEPLOYED SHED - MECHANICAL DECK	•			•		•	•								•	
S-153.00	S-153.00	FRAMING PLAN, DEPLOYED SHED - ROOF	•			•		•	•								•	
S-154.00	S-154.00	FRAMING PLAN, DEPLOYED SHED - BMU TRACK	•			•		•	•								•	
S-201.00	S-201.00	TYPICAL SLAB ON GRADE DETAILS				•		•	•							•		
S-210.00	S-210.00	FOUNDATION SECTIONS		•		•		•	•	•						•		
S-301.00	S-301.00	BRACING ELEVATIONS FIXED BUILDING I	•			•		•	•	•						•		
S-302.00	S-302.00	BRACING ELEVATIONS FIXED BUILDING II	•			•		•	•	•						•		
S-303.00	S-303.00	BRACING ELEVATIONS FIXED BUILDING III	•			•		•	•	•						•		
S-304.00	S-304.00	BRACING ELEVATIONS FIXED BUILDING IV	•			•		•	•	•						•		
S-310.00	S-310.00	SECTIONS FIXED BUILDING I	•			•		•	•	•						•		
S-311.00	S-311.00	SECTIONS FIXED BUILDING II	•			•		•	•	•						•		
S-312.00	S-312.00	SECTIONS, FIXED BUILDING III	•			•		•	•	•						•		
S-320.00	S-320.00	TYPICAL BRACED FRAME CONNECTION DETAILS I	•			•		•	•							•		
S-321.00	S-321.00	TYPICAL BRACED FRAME CONNECTION DETAILS II	•			•		•	•							•		
S-351.00	S-351.00	ELEVATIONS, DEPLOYED SHED	•			•		•	•								•	
S-352.00	S-352.00	SECTIONS, DEPLOYED SHED	•			•		•	•								•	
S-354.00	S-354.00	TRUSS SECTIONS	•			•		•	•								•	
S-355.00	S-355.00	TRUSS SECTIONS	•			•		•	•								•	
S-401.00	S-401.00	FIXED BUILDING TRUSS ELEVATIONS AND DETAILS	•			•		•	•	•						•		
S-402.00	S-402.00	CASTELLATED BEAM ELEVATIONS AND DETAILS	•			•		•	•	•						•		
S-403.00	S-403.00	SOUTH LEVEL 02 CABLE WALL SUPPORT BEAM														•		
S-410.00	S-410.00	STRONG POINT SUPPORT FRAMING PLAN, FIXED BUILDING LEVELS 04 & 06		•		•		•	•	•						•		
S-411.00	S-411.00	STRONG POINT SUPPORT FRAMING PLAN, FIXED BUILDING LEVEL 08		•		•		•	•	•						•		
S-412.00	S-412.00	TYPICAL STRONG POINT SUPPORT FRAMING DETAILS		•		•		•	•	•						•		
S-421.00	S-421.00	BRIDGING ELEVATIONS AND DETAILS							•	•						•		
S-500.00	S-500.00	DEMOLITION AND INFILL PLAN, FIXED BUILDING LEVEL 00				•		•	•	•						•		
S-501.00	S-501.00	MODIFICATION PART PLANS AND DETAILS, FIXED BUILDING LEVEL 00 - I	•	•		•		•	•	•						•		
S-502.00	S-502.00	MODIFICATION PART PLANS AND DETAILS, FIXED BUILDING LEVEL 00 - II	•	•		•		•	•	•						•		
S-503.00	S-503.00	MODIFICATION PART PLANS AND DETAILS, FIXED BUILDING LEVEL 00 AND 01	•			•		•	•	•						•		
S-504.00	S-504.00	MODIFICATION PART PLANS AND DETAILS, FIXED BUILDING LEVEL 02	•	•		•		•	•	•						•		
S-601.00	S-601.00	TYPICAL MASONRY NON-BEARING WALL SCHEDULES							•							•		
S-602.00	S-602.00	TYPICAL MASONRY NON-BEARING WALL DETAILS							•							•		
S-603.00	S-603.00	TYPICAL MASONRY NON-BEARING WALL TO STEEL DETAILS							•							•		
S-604.00	S-604.00	TYPICAL MASONRY NON-BEARING WALL TO CONCRETE DETAILS							•							•		
S-701.00	S-701.00	TYPICAL STEEL BEAM DETAILS I	•			•		•	•							•		
S-702.00	S-702.00	TYPICAL STEEL BEAM DETAILS II	•			•		•	•							•		
S-703.00	S-703.00	TYPICAL STEEL BEAM DETAILS III	•			•		•	•	•						•		
S-704.00	S-704.00	TYPICAL STEEL BEAM DETAILS IV	•			•		•	•							•		
S-705.00	S-705.00	STEEL SUBSTITUTION SCHEDULES														•		
S-710.00	S-710.00	TYPICAL COMPOSITE STEEL DECK DETAILS I	•			•		•	•							•		
S-711.00	S-711.00	TYPICAL COMPOSITE STEEL DECK DETAILS II	•			•		•	•							•		
S-712.00	S-712.00	TYPICAL COMPOSITE STEEL DECK DETAILS III	•			•		•	•							•		
S-713.00	S-713.00	TYPICAL COMPOSITE STEEL DECK DETAILS IV	•			•		•	•	•						•		
S-720.00	S-720.00	SECTIONS AND DETAILS, FIXED BUILDING LEVEL 00 AND LEVEL 01	•	•		•		•	•	•						•		
S-721.00	S-721A.00	SECTIONS AND DETAILS, FIXED BUILDING LOBBY I	•	•		•		•	•	•						•		
S-721B.00	S-721B.00	SECTIONS AND DETAILS, FIXED BUILDING LOBBY II							•	•						•		
S-722.00	S-722.00	SECTIONS AND DETAILS, FIXED BUILDING LEVEL 02 - I	•	•		•		•	•	•						•		
S-723.00	S-723.00	SECTIONS AND DETAILS, FIXED BUILDING LEVEL 02 - II	•	•		•		•	•	•						•		
S-724.00	S-724.00	SECTIONS AND DETAILS, FIXED BUILDING L04 TO L08 - I	•			•		•	•	•						•		
S-725.00	S-725.00	SECTIONS AND DETAILS, FIXED BUILDING L04 TO L08 - II	•			•		•	•	•						•		
S-726.00	S-726.00	SECTIONS AND DETAILS, FIXED BUILDING LEVEL 09/ROOF	•			•		•	•	•						•		
S-727.00	S-727.00	SECTIONS AND DETAILS, FIXED BUILDING ROOF II							•	•						•		
S-750.00	S-750.00	DETAILS, DEPLOYED SHED NORTH/SOUTH TYPICAL WALL SECTIONS	•			•		•	•								•	
S-751.00	S-751.00	TYPICAL WALL PLATE THICKNESSES I	•			•		•	•								•	
S-752.00	S-752.00	TYPICAL WALL PLATE THICKNESSES II	•			•		•	•								•	
S-753.00	S-753.00	MAIN VERTICAL WELD DETAILS	•			•		•	•								•	
S-754.00	S-754.00	MAIN DIAGONAL WELD DETAILS	•			•		•	•								•	
S-755.00	S-755.00	DETAILS, DEPLOYED SHED NORTH/SOUTH WALL NODES - I	•			•		•	•								•	
S-757.00	S-757.00	DEPLOYED SHED NORTH/SOUTH WALL - ATYPICAL ELEMENTS	•			•		•	•								•	
S-758.00	S-758.00	DEPLOYED SHED NORTH/SOUTH WALL - TERTIARY ELEMENTS	•			•		•	•								•	
S-760.00	S-760.00	DETAILS, DEPLOYED SHED NORTH/SOUTH WALL - CURVED SECTIONS	•			•		•	•								•	
S-761.00	S-761.00	DETAILS, DEPLOYED SHED NORTH/SHOUTH WALLS - CURVED SECTION DETAILS	•			•		•	•								•	
S-763.00	S-763.00	DETAILS, DEPLOYED SHED NORTH/SOUTH WALLS - E-W TRUSSES	•			•		•	•								•	
S-764.00	S-764.00	DETAILS, DEPLOYED SHED DRIVE CONNECTION	•			•		•	•								•	
S-765.00	S-765.00	SHED TO BOGIE CONNECTION	•			•		•	•								•	
S-766.00	S-766.00	SHED TO BOGIE DETAILS	•			•		•	•								•	
S-768.00	S-768.00	DETAILS, DEPLOYED SHED NORTH/SOUTH WALLS - N-S TRUSSES	•			•		•	•								•	
S-770.00	S-770.00	DETAILS DEPLOYED SHED EAST WALL I	•			•		•	•								•	
S-771.00	S-771.00	DETAILS DEPLOYED SHED EAST WALL II	•			•		•	•								•	
S-772.00	S-772.00	DETAILS, DEPLOYED SHED EAST WALL	•			•		•	•								•	
S-773.00	S-773.00	DETAILS, DEPLOYED SHED EAST PORTAL TYPICAL SECTIONS	•			•		•	•								•	
S-774.00	S-774.00	DETAILS, DEPLOYED SHED EAST PORTAL - NODES	•			•		•	•								•	
S-785.00	S-785.00	DETAILS, DEPLOYED SHED - MECHANICAL DECK	•			•		•	•								•	
S-786.00	S-786.00	DETAILS, DEPLOYED SHED MECHANICAL DUCTWORK	•			•		•	•								•	
S-790.00	S-790.00	DEPLOYED SHED NORTH/SOUTH WALL - QUAD MEMBERS	•			•		•	•								•	
S-791.00	S-791.00	DEPLOYED SHED NORTH/SOUTH WALL - QUAD CONNECTIONS	•			•		•	•								•	
S-794.00	S-794.00	DEPLOYED SHED EAST WALL - QUAD MEMBER	•			•		•	•								•	
S-798.00	S-798.00	DEPLOYED SHED -DEAD LOAD DEFLECTIONS I	•			•		•	•								•	
S-799.00	S-799.00	DEPLOYED SHED -DEAD LOAD DEFLECTIONS II	•			•		•	•								•	
S-801.00	S-801.00	DEPLOYED SHED NORTH & SOUTH DOORS - LAYOUT	•			•		•	•								•	
S-802.00	S-802.00	DEPLOYED SHED NORTH & SOUTH DOORS - FRAMING	•			•		•	•								•	
S-803.00	S-803.00	DEPLOYED SHED NORTH & SOUTH DOORS - DETAILS I	•			•		•	•								•	
S-804.00	S-804.00	DEPLOYED SHED NORTH AND SOUTH DOORS - CONNECTION FORCES							•								•	
S-811.00	S-811.00	DEPLOYED SHED EAST DOORS - LAYOUT	•			•		•	•								•	
S-812.00	S-812.00	DEPLOYED SHED EAST DOORS - FRAMING	•			•		•	•								•	
S-813.00	S-813.00	DEPLOYED SHED EAST DOORS - DETAILS I	•			•		•	•								•	
KINETICS																		
K-101.00	K-101.00	SHED DRIVE - SHED OPERATING MACHINERY ASSEMBLY	•			•			•								•	
K-102.00	K-102.00	SHED DRIVE – SHED GIMBAL ATTACHMENT	•						•									
K-103.00	K-103.00	SHED DRIVE – GIMBAL AND SLED DETAILS	•						•									
K-104.00	K-104.00	SHED DRIVE – SLED OPERATING MACHINERY ASSEMBLY AND DETAILS	•						•									
K-105.00	K-105.00	SHED DRIVE – ROLLER & RACK SUPPORT ASSEMBLIES	•						•									
K-106.00	K-106.00	SHED DRIVE – ROLLER & RACK SUPPORT DETAILS	•						•									
K-111.00	K-111.00	BOGIE ASSEMBLY	•			•			•								•	
K-112.00	K-112.00	BOGIE FRAME & GIMBAL ASSEMBLY DETAILS	•						•									
K-113.00	K-113.00	RAIL CLIP LAYOUT AND DETAILS	•			•			•								•	
K-121.00	K-121.00	SHED NORTH & SOUTH OPERABLE WALL - SCHEMATIC AND NOTES	•			•											•	
K-122.00	K-122.00	SHED EAST OPERABLE WALLS – DRIVE SCHEMATICS	•			•			•								•	
K-123.00	K-123.00	SHED EAST OPERABLE WALLS DRIVE SCHEMATICS	•			•			•									
K-124.00	K-124.00	DRIVE ASSEMBLY DETAILS	•						•									
K-131.00	K-131.00	FIXED BUILDING EAST OPERABLE WALL – DRIVE SCHEMATIC	•			•			•									
K-132.00	K-132.00	FIXED BUILDING OPERABLE WALLS – DRUM ASSEMBLY DETAILS	•						•									
K-141.00	K-141.00	FIXED BUILDING OPERABLE SKYLIGHT	•			•												
K-142.00	K-142.00	FIXED BUILDING OPERABLE SKYLIGHT - DETAILS	•															
K-151.00	K-151.00	ELECTRICAL GENERAL NOTES	•			•			•								•	
K-152.00	K-152.00	ELECTRICAL COMPONENT LOCATION PLAN I	•			•			•								•	
K-153.00	K-153.00	ELECTRICAL COMPONENT LOCATION PLAN II	•			•			•								•	
K-154.00	K-154.00	ELECTRICAL ONELINE DIAGRAM I	•			•			•								•	
K-155.00	K-155.00	ELECTRICAL ONELINE DIAGRAM II	•			•			•								•	
K-156.00	K-156.00	ELECTRICAL PLC LAYOUT I	•			•			•								•	
K-157.00	K-157.00	ELECTRICAL PLC LAYOUT II	•			•			•								•	
K-158.00	K-158.00	ELECTRICAL PLC LAYOUT III	•			•			•								•	
K-159.00	K-159.00	SCHEMATIC WIRING DIAGRAM - INPUTS I	•			•			•								•	
K-160.00	K-160.00	SCHEMATIC WIRING DIAGRAM - INPUTS II	•			•			•								•	
K-161.00	K-161.00	SCHEMATIC WIRING DIAGRAM - INPUTS III	•			•			•								•	
K-162.00	K-162.00	SCHEMATIC WIRING DIAGRAM - INPUTS IV	•			•			•								•	
K-163.00	K-163.00	SCHEMATIC WIRING DIAGRAM - INPUTS V	•			•			•								•	
K-164.00	K-164.00	SCHEMATIC WIRING DIAGRAM - OUTPUTS I	•			•			•								•	
K-165.00	K-165.00	SCHEMATIC WIRING DIAGRAM - OUTPUTS II	•			•			•								•	

VOLUME IV - MECH / PLUMBING / FP / ELEC / ETL / RE / FA

B-SCAN NUMBER	DRAWING NUMBER		06.16.2014 - ADVANCED PROCUREMENT BID SET	10.03.2014 - ADVANCED PROCUREMENT ADDENDUM 1	10.22.2014 - ADVANCED PROCUREMENT ADDENDUM 2	12.10.2014 - PRELIMINARY DOB SUBMISSION	01.16.2015 - ADVANCED PROCUREMENT ADDENDUM 3	02.16.2015 - 90% CONSTRUCTION DOCUMENTS	03.18.2015 - 100% CONSTRUCTION DOCUMENTS	04.10.2015 - ADVANCED PROCUREMENT ADDENDUM 5	07.22.2015 - ADDENDUM 1	08.03.2015 - DOB AMENDMENT 1	08.13.2015 - ADDENDUM 3	09.03.2015 - DOB AMENDMENT 2	04.08.2016 - DOB AMENDMENT 5	06.30.2016 - DOB AMENDMENT 6
MECHANICAL																	
M-001.00	M-001.00	HVAC GENERAL NOTES AND DRAWING INDEX				•		•	•		•			•	•	•
M-002.00	M-002.00	HVAC KEY TO SYMBOLS AND ABBREVIATIONS				•		•	•		•			•	•	
M-1C1.00	M-1C1.00	HVAC DUCTWORK PLAN FIXED BUILDING LEVEL C1				•		•	•		•			•		
M-100.00	M-100.00	HVAC DUCTWORK PLAN FIXED BUILDING LEVEL 00				•		•	•		•			•		
M-101.00	M-101.00	HVAC DUCTWORK PLAN FIXED BUILDING LEVEL 01				•		•	•		•			•		
M-102.00	M-102A.00	HVAC DUCTWORK PLAN FIXED BUILDING LEVEL 02				•		•	•		•			•		
M-103.00	M-102B.00	HVAC DUCTWORK PLAN PLAZA LEVEL 02				•		•	•		•			•	•	
M-104.00	M-103.00	HVAC DUCTWORK PLAN FIXED BUILDING LEVEL 03				•		•	•		•			•	•	
M-105.00	M-104.00	HVAC DUCTWORK PLAN FIXED BUILDING LEVEL 04				•		•	•		•			•	•	
M-106.00	M-105.00	HVAC DUCTWORK PLAN FIXED BUILDING LEVEL 05				•		•	•		•			•	•	
M-107.00	M-106.00	HVAC DUCTWORK PLAN FIXED BUILDING LEVEL 06				•		•	•		•			•	•	
M-108.00	M-107.00	HVAC DUCTWORK PLAN FIXED BUILDING LEVEL 07				•		•	•		•			•	•	
M-109.00	M-108.00	HVAC DUCTWORK PLAN FIXED BUILDING LEVEL 08				•		•	•		•			•	•	
M-110.00	M-109A.00	HVAC DUCTWORK PLAN FIXED BUILDING LEVEL 09				•		•	•		•			•	•	
M-111.00	M-109B.00	HVAC DUCTWORK PLAN DEPLOYED SHED MECHANICAL LEVEL				•		•	•		•			•	•	
M-112.00	M-110.00	HVAC DUCTWORK PLAN FIXED BUILDING LEVEL 10				•		•	•		•			•	•	
M-113.00	M-111.00	HVAC DUCTWORK PLAN TOWER D LEVEL 67, 68				•		•	•		•			•		
M-114.00	M-112.00	HVAC DUCTWORK PLAN TOWER D LEVEL 69, 70				•		•	•		•			•		
M-2C1.00	M-2C1.00	HVAC PIPING PLAN FIXED BUILDING LEVEL C1				•		•	•		•			•		
M-200.00	M-200.00	HVAC PIPING PLAN FIXED BUILDING LEVEL 00				•		•	•		•			•	•	
M-201.00	M-201.00	HVAC PIPING PLAN FIXED BUILDING LEVEL 01				•		•	•		•			•	•	
M-202.00	M-202A.00	HVAC PIPING PLAN FIXED BUILDING LEVEL 02				•		•	•		•			•	•	
M-203.00	M-202B.00	HVAC PIPING PLAN PLAZA SUBSURFACE LEVEL 02				•		•	•		•			•	•	
M-204.00	M-203.00	HVAC PIPING PLAN FIXED BUILDING LEVEL 03				•		•	•		•			•	•	
M-205.00	M-204.00	HVAC PIPING PLAN FIXED BUILDING LEVEL 04				•		•	•		•			•	•	
M-206.00	M-205.00	HVAC PIPING PLAN FIXED BUILDING LEVEL 05				•		•	•		•			•	•	
M-207.00	M-206.00	HVAC PIPING PLAN FIXED BUILDING LEVEL 06				•		•	•		•			•	•	
M-208.00	M-207.00	HVAC PIPING PLAN FIXED BUILDING LEVEL 07				•		•	•		•			•	•	
M-209.00	M-208.00	HVAC PIPING PLAN FIXED BUILDING LEVEL 08				•		•	•		•			•	•	
M-210.00	M-209A.00	HVAC PIPING PLAN FIXED BUILDING LEVEL 09				•		•	•		•			•	•	
M-211.00	M-209B.00	HVAC PIPING PLAN DEPLOYED SHED MECHANICAL LEVEL				•		•	•		•			•	•	
M-212.00	M-210.00	HVAC PIPING PLAN FIXED BUILDING LEVEL 10				•		•	•		•			•	•	
M-213.00	M-211.00	HVAC PIPING PLAN TOWER D LEVEL 67, 68				•		•	•		•			•		
M-214.00	M-212.00	HVAC PIPING PLAN TOWER D LEVEL 69, 70				•		•	•		•			•		
M-301.00	M-301.00	HVAC SECTION SHEET No. 01				•		•	•		•			•		
M-302.00	M-302.00	HVAC SECTION SHEET No. 02				•		•	•		•			•		
M-303.00	M-303.00	HVAC SECTION SHEET No. 03				•		•	•		•			•	•	
M-304.00	M-304.00	HVAC SECTION SHEET No. 04				•		•	•		•			•		
M-305.00	M-305.00	HVAC SECTION SHEET No. 05				•		•	•		•			•		
M-306.00	M-306.00	HVAC SECTION SHEET No. 06				•		•	•		•			•		
M-307.00	M-307.00	HVAC SECTION SHEET No. 07				•		•	•		•			•		
M-308.00	M-308.00	HVAC SECTION SHEET No. 08				•		•	•		•			•		
M-309.00	M-309.00	HVAC SECTION SHEET No. 09				•		•	•		•			•		
M-310.00	M-310.00	HVAC SECTION SHEET No. 10				•		•	•		•			•		
M-311.00	M-311.00	HVAC SECTION SHEET No. 11							•		•			•		
M-312.00	M-312.00	HVAC SECTION SHEET No. 12							•		•			•		
M-313.00	M-313.00	HVAC SECTION SHEET No. 13							•		•			•		
M-314.00	M-314.00	HVAC SECTION SHEET No. 14							•		•			•		
M-315.00	M-315.00	HVAC SECTION SHEET No. 15							•		•			•		
M-316.00	M-316.00	HVAC SECTION SHEET No. 16							•		•			•		
M-317.00	M-317.00	HVAC SECTION SHEET No. 17							•		•			•		
M-318.00	M-318.00	HVAC SECTION SHEET No. 18							•		•			•		
M-319.00	M-319.00	HVAC SECTION SHEET No. 19							•		•			•	•	
M-320.00	M-320.00	HVAC SECTION SHEET No. 20							•		•			•	•	
M-321.00	M-321.00	HVAC SECTION SHEET No. 21							•		•			•	•	
M-401.00	M-401.00	HVAC CHILLED/CONDENSER WATER FLOW DIAGRAM No. 1				•		•	•		•			•		
M-402.00	M-402.00	HVAC CHILLED/CONDENSER WATER FLOW DIAGRAM No. 2				•		•	•		•			•		
M-403.00	M-403.00	HVAC CHILLED/CONDENSER WATER FLOW DIAGRAM No. 3				•		•	•		•			•	•	
M-404.00	M-404.00	HVAC HOT WATER FLOW DIAGRAM No. 1				•		•	•		•			•	•	
M-405.00	M-405.00	HVAC HOT WATER FLOW DIAGRAM No. 2				•		•	•		•			•	•	
M-406.00	M-406.00	HVAC HOT WATER FLOW DIAGRAM No. 3				•		•	•		•			•	•	
M-407.00	M-407.00	HVAC HOT WATER FLOW DIAGRAM No. 4				•		•	•		•			•		
M-408.00	M-408.00	HVAC PIPE RISER DIAGRAM No. 1				•		•	•		•			•		
M-409.00	M-409.00	HVAC PIPE RISER DIAGRAM No. 2				•		•	•		•			•		
M-410.00	M-410.00	HVAC AIR RISER DIAGRAM No. 1				•		•	•		•			•		
M-411.00	M-411.00	HVAC AIR RISER DIAGRAM No. 2				•		•	•		•			•		
M-412.00	M-412.00	HVAC PERIMETER HOT WATER RISER DIAGRAM No. 1							•		•			•		
M-413.00	M-413.00	HVAC PERIMETER HOT WATER RISER DIAGRAM No. 2							•		•			•		
M-431.00	M-431.00	HVAC HUMIDIFICATION FLOW DIAGRAM				•		•	•		•			•		
M-501.00	M-501.00	HVAC SCHEDULE SHEET No. 1				•		•	•		•			•	•	
M-502.00	M-502.00	HVAC SCHEDULE SHEET No. 2				•		•	•		•			•	•	•
M-503.00	M-503.00	HVAC SCHEDULE SHEET No. 3				•		•	•		•			•	•	
M-504.00	M-504.00	HVAC SCHEDULE SHEET No. 4				•		•	•		•			•	•	
M-505.00	M-505.00	HVAC SCHEDULE SHEET No. 5				•		•	•		•			•		
M-506.00	M-506.00	HVAC SCHEDULE SHEET No. 6				•		•	•		•			•		
M-507.00	M-507.00	HVAC SCHEDULE SHEET No. 7									•			•		
M-601.00	M-601.00	HVAC DETAIL SHEET No. 1				•		•	•		•			•		
M-602.00	M-602.00	HVAC DETAIL SHEET No. 2				•		•	•		•			•	•	
M-603.00	M-603.00	HVAC DETAIL SHEET No. 3				•		•	•		•			•		
M-604.00	M-604.00	HVAC DETAIL SHEET No. 4				•		•	•		•			•		
M-605.00	M-605.00	HVAC DETAIL SHEET No. 5				•		•	•		•			•		
M-606.00	M-606.00	HVAC DETAIL SHEET No. 6				•		•	•		•			•		
M-607.00	M-607.00	HVAC DETAIL SHEET No. 7				•		•	•		•			•		
M-608.00	M-608.00	HVAC DETAIL SHEET No. 8							•		•			•		
M-609.00	M-609.00	HVAC DETAIL SHEET No. 9							•		•			•		
M-610.00	M-610.00	HVAC DETAIL SHEET No. 10							•		•			•		
M-611.00	M-611.00	HVAC DETAIL SHEET No. 11							•		•			•		
M-612.00	M-612.00	HVAC DETAIL SHEET No. 12									•			•		
M-701.00	M-701.00	DDC ARCHITECTURE				•		•	•		•			•		
PLUMBING																	
P-001.00	P-001.00	PLUMBING COVER SHEET						•	•		•			•	•	•
P-100.00	P-1C1.00	PLUMBING FLOOR PLAN FIXED BUILDING LEVEL C1						•	•		•			•		•
P-101.00	P-100.00	PLUMBING FLOOR PLAN FIXED BUILDING LEVEL 00 (TD BASEMENT)						•	•		•			•		•
P-102.00	P-101.00	PLUMBING FLOOR PLAN FIXED BUILDING LEVEL 01						•	•		•			•		•
P-103.00	P-102A.00	PLUMBING FLOOR PLAN FIXED BUILDING LEVEL 02						•	•		•			•		•
P-104.00	P-102B.00	PLUMBING FLOOR PLAN PLAZA LEVEL 02						•	•		•			•		•
P-105.00	P-103.00	PLUMBING FLOOR PLAN FIXED BUILDING LEVEL 03						•	•		•			•	•	•
P-106.00	P-104.00	PLUMBING FLOOR PLAN FIXED BUILDING LEVEL 04						•	•		•			•	•	•
P-107.00	P-105.00	PLUMBING FLOOR PLAN FIXED BUILDING LEVEL 05						•	•		•			•	•	•
P-108.00	P-106.00	PLUMBING FLOOR PLAN FIXED BUILDING LEVEL 06						•	•		•			•	•	•
P-109.00	P-107.00	PLUMBING FLOOR PLAN FIXED BUILDING LEVEL 07						•	•		•			•	•	•
P-110.00	P-108.00	PLUMBING FLOOR PLAN FIXED BUILDING LEVEL 08						•	•		•			•	•	•
P-111.00	P-109A.00	PLUMBING FLOOR + ROOF PLAN FIXED BUILDING LEVEL 09						•	•		•			•	•	•
P-112.00	P-109B.00	PLUMBING FLOOR PLAN DEPLOYED SHED MECHANICAL LEVEL						•	•		•			•	•	•
P-113.00	P-110A.00	PLUMBING FLOOR PLAN TOWER D LEVEL 10, 11						•	•		•			•		
P-114.00	P-110B.00	PLUMBING ROOF PLAN DEPLOYED SHED						•	•		•			•	•	•
P-115.00	P-111.00	PLUMBING FLOOR PLAN TOWER D LEVEL 67, 69						•	•		•			•		•
P-400.00	P-400.00	DOMESTIC WATER RISER DIAGRAM						•	•		•			•		•
P-401.00	P-401.00	DOMESTIC WATER RISER DIAGRAM						•	•		•			•		•
P-402.00	P-402.00	SANITARY RISER DIAGRAM						•	•		•			•		•
P-403.00	P-403.00	STORM RISER DIAGRAM						•	•		•			•	•	•
P-404.00	P-404.00	GAS RISER DIAGRAM						•	•		•			•		•
P-501.00	P-501.00	PLUMBING SCHEDULE SHEET						•	•		•			•	•	•
P-601.00	P-601.00	PLUMBING DETAILS						•	•		•			•		•
P-602.00	P-602.00	TOILET ROOM DETAILS							•		•			•		•
P-701.00	P-701.00	BACKFLOW PREVENTER PLAN							•		•			•		•

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T: 203.288.6490

WATERPROOFING
James R. Gainfort AIA Consulting Architects PC
104 West 27th Street
New York, NY 10001
T: 212.736.3344

FACADE MAINTENANCE
Entek Engineering PLLC
166 Ames Street
New York, NY 10005
T: 212.896.3000

BRANDING/GRAPHICS
2x4 Global Design Consultancy
180 Varick Street 15th Floor
New York, NY 10014
T: 212.647.1170

KEY PLAN

ISSUE △		PRINTING	DATE
55	44	DOB AMENDMENT 6	06.30.2016
44	33	DOB AMENDMENT 5	04.08.2016
19		DOB AMENDMENT 3	09.16.2015
13		DOB AMENDEMENT 1	08.03.2015
12	6	ADDENDUM 1	07.22.2015
10	4	100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015

STAMP

REGISTERED ARCHITECT
RICARDO SCOFIDIO
STATE OF NEW YORK
008800

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWN BY JD
CHECKED BY RK

PROJECT NUMBER
11017

TITLE
DRAWING INDEX CONTINUED

DRAWING NO.
T-003.00

B-SCAN NO.
G-003.00

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DEPT OF BLDGS 121192397 Job Number
ES375992966 Scan Code

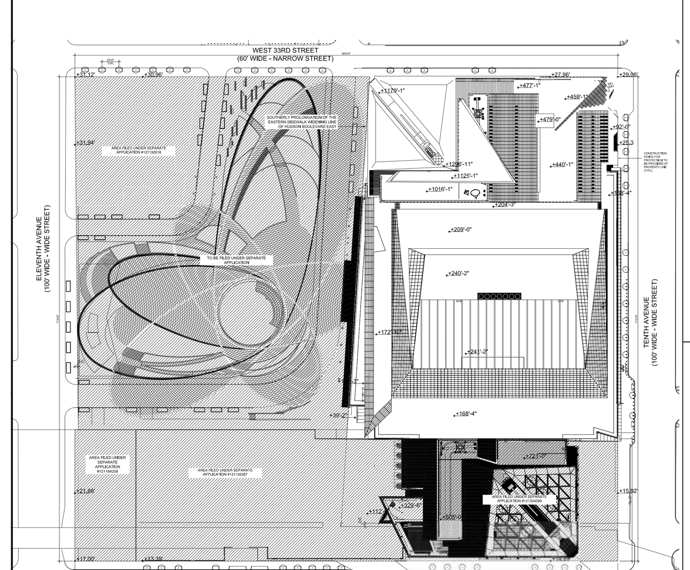
SITE PLAN DIAGRAM
1/128" = 1'-0"

C6-4 / HUDSON YARDS SPECIAL DISTRICT
LARGE SCALE PLAN SUBDISTRICT A
EASTERN RAILYARDS SUBAREA A1

LOT AREA: 570,000 SF

NO LOT COVERAGE REQUIREMENTS [PER ZR 93-514]

LEGEND
AREAS FILED UNDER SEPARATE APPLICATION
PROPOSED BUILDING
ZONING LOT LINE
PROPOSED TREE

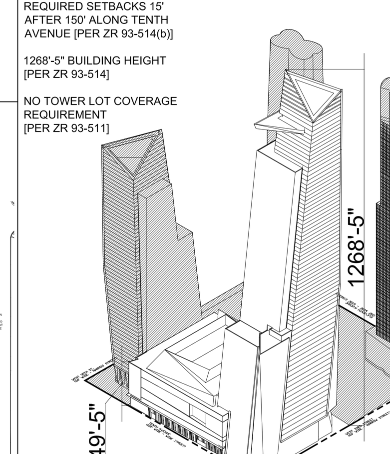


AXONOMETRIC DIAGRAM
NOT TO SCALE

REQUIRED SETBACKS 15' AFTER 150' ALONG TENTH AVENUE [PER ZR 93-514(b)]

1268'-5" BUILDING HEIGHT [PER ZR 93-514]

NO TOWER LOT COVERAGE REQUIREMENT [PER ZR 93-511]



ZD1 Zoning Diagram
Must be typewritten.

Orient and affix BIS job number label here.

Submitted to resolve objections stated in a notice of intent to revoke issued pursuant to rule 101-15. ☐ Yes ☐ No

Location Information
House No(s) 500
Street Name WEST 33rd STREET
Borough Manhattan
Block 702
Lot 125
BIN 121186251

Falsification of any statement is a misdemeanor and is punishable by a fine or imprisonment, or both. It is unlawful to give to a city employee, or for a city employee to accept, any benefit, monetary or otherwise, either as a gratuity for properly performing the job or in exchange for special consideration. Violation is punishable by imprisonment or fine or both. I understand that if I am found after hearing to have knowingly or negligently falsified or allowed to be falsified any certificate, form, signed statement, application, report or certification of the correction of a violation required under the provisions of this code or of a rule of any agency, I may be barred from filing further applications or documents with the Department.

Name (please print) MICHAEL GREENE
Signature Date 5-9-2016

REGISTERED ARCHITECT MICHAEL D. GREENE NO 027052 STATE OF NEW YORK

P.E. / R.A. Seal (apply seal, then sign and date over seal)

Internal Use Only
BIS Doc #
PLAN EXAMINER SIGN AND DATE

6/09

2582. - ZD1-317510.pdf

NYC Buildings

ZD1 Zoning Diagram
Must be typewritten.
Sheet 1 of 3

121186251

1 Applicant Information *Required for all applications.*
Last Name GREENE First Name MICHAEL Middle Initial
Business Name KOHN PEDERSEN FOX & ASSOCIATES Business Telephone (212) 977-6500
Business Address 11 WEST 42ND STREET Business Fax (212) 956-2526
City NEW YORK State NY Zip 10036 Mobile Telephone ( ) -
E-Mail MGREENE@KPF.COM License Number 027052

2 Additional Zoning Characteristics *Required as applicable.*
Dwelling Units Parking area sq. ft. Parking Spaces: Total 210 Enclosed 210

3 BSA and/or CPC Approval for Subject Application *Required as applicable.*

Board of Standards & Appeals (BSA)
☐ Variance Cal. No. Authorizing Zoning Section 72-21
☐ Special Permit Cal. No. Authorizing Zoning Section
☐ General City Law Waiver Cal. No. General City Law Section
☐ Other Cal. No.

City Planning Commission (CPC)
☐ Special Permit ULURP No. N150069ZCM Authorizing Zoning Section 93-122
☐ Authorization App. No. N150070ZCM Authorizing Zoning Section 93-122
☒ Certification App. No. N150071ZCM Authorizing Zoning Section 93-70
☐ Other App. No. N150072ZCM 93-70
N150073ZCM, N150132ZCM 93-70, 93-71

4 Proposed Floor Area *Required for all applications. One Use Group per line.*

Floor Number	Building Code Gross Floor Area (sq. ft.)	Use Group	Zoning Floor Area (sq. ft.) Residential	Community Facility	Commercial	Manufacturing	FAR
PROPOSED BUILDING - TOWER A & RETAIL PODIUM							
CELLAR	19,421	6	0	0	0	0	0
GROUND FL	105,076	6	0	0	72,094	0	.13
1	183,634	6	0	0	176,059	0	.31
2	138,373	6	0	0	130,741	0	.23
3	167,725	6	0	0	154,543	0	.27
4	184,628	6	0	0	176,008	0	.31
5	189,367	6	0	0	164,234	0	.29
6	182,008	6	0	0	123,622	0	.22
7	136,421	6	0	0	110,949	0	.19
8	148,526	6	0	0	0	0	0
9	62,597	6	0	0	0	0	0
10	83,761	6	0	0	55,620	0	.10

ZD1
Sheet 1 of 3

4 Proposed Floor Area *Required for all applications. One Use Group per line.*

Floor Number	Building Code Gross Floor Area (sq. ft.)	Use Group	Zoning Floor Area (sq. ft.) Residential	Community Facility	Commercial	Manufacturing	FAR
11	69,579	6	0	0	55,308	0	.1
12	60,991	6	0	0	55,010	0	.1
13	60,658	6	0	0	54,654	0	.1
14	60,322	6	0	0	54,351	0	.1
15	59,980	6	0	0	54,016	0	.09
16	49,147	6	0	0	43,144	0	.08
17	59,286	6	0	0	53,284	0	.09
18	54,524	6	0	0	47,813	0	.08
19	58,573	6	0	0	52,567	0	.09
20	48,090	6	0	0	42,079	0	.07
21	57,086	6	0	0	0	0	0
21U	2,058	6	0	0	0	0	0
22	49,097	6	0	0	45,583	0	.08
23	44,914	6	0	0	31,529	0	.06
24	43,461	6	0	0	40,018	0	.07
25	43,054	6	0	0	39,643	0	.07
26	42,749	6	0	0	39,205	0	.07
27	42,444	6	0	0	38,937	0	.07
28	42,138	6	0	0	38,573	0	.07
29	41,832	6	0	0	38,291	0	.07
30	41,522	6	0	0	38,014	0	.07
31	41,207	6	0	0	37,642	0	.07
32	40,897	6	0	0	37,356	0	.07
33	40,587	6	0	0	37,080	0	.06
34	40,275	6	0	0	36,710	0	.06
35	39,966	6	0	0	36,425	0	.06
36	39,656	6	0	0	36,148	0	.06
37	39,347	6	0	0	35,781	0	.06
38	39,036	6	0	0	35,504	0	.06
Totals	cont.		0	0	cont.	0	cont.

Total Zoning Floor Area: cont.

6/09

2582. - ZD1-317510.pdf

NYC Buildings

ZD1 Zoning Diagram
Must be typewritten.
Sheet 1 of 3

121186251

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Last Name GREENE First Name MICHAEL Middle Initial
Business Name KOHN PEDERSEN FOX & ASSOCIATES Business Telephone (212) 977-6500
Business Address 11 WEST 42ND STREET Business Fax (212) 956-2526
City NEW YORK State NY Zip 10036 Mobile Telephone ( ) -
E-Mail MGREENE@KPF.COM License Number 027052

2 Additional Zoning Characteristics *Required as applicable.*
Dwelling Units Parking area sq. ft. Parking Spaces: Total 210 Enclosed 210

3 BSA and/or CPC Approval for Subject Application *Required as applicable.*

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☐ Variance Cal. No. Authorizing Zoning Section 72-21
☐ Special Permit Cal. No. Authorizing Zoning Section
☐ General City Law Waiver Cal. No. General City Law Section
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☒ Certification App. No. N150071ZCM Authorizing Zoning Section 93-70
☐ Other App. No. N150072ZCM 93-70
N150073ZCM, N150132ZCM 93-70, 93-71

4 Proposed Floor Area *Required for all applications. One Use Group per line.*

Floor Number	Building Code Gross Floor Area (sq. ft.)	Use Group	Zoning Floor Area (sq. ft.) Residential	Community Facility	Commercial	Manufacturing	FAR
39	38,688	6	0	0	0	0	0
39U	1,831	6	0	0	0	0	0
40	37,997	6	0	0	33,348	0	.06
41	37,689	6	0	0	34,713	0	.06
42	37,379	6	0	0	34,383	0	.06
43	37,069	6	0	0	34,091	0	.06
44	36,758	6	0	0	33,781	0	.06
45	36,447	6	0	0	33,451	0	.06
46	36,137	6	0	0	33,159	0	.06
47	35,826	6	0	0	32,849	0	.06
48	35,515	6	0	0	32,519	0	.06
49	35,205	6	0	0	32,227	0	.06

ZD1
Sheet 1 of 3

4 Proposed Floor Area *Required for all applications. One Use Group per line.*

Floor Number	Building Code Gross Floor Area (sq. ft.)	Use Group	Zoning Floor Area (sq. ft.) Residential	Community Facility	Commercial	Manufacturing	FAR
50	34,895	6	0	0	31,900	0	.06
51	34,585	6	0	0	29,998	0	.05
52	34,273	6	0	0	29,458	0	.05
53	33,963	6	0	0	30,604	0	.05
54	33,652	6	0	0	30,418	0	.05
55	33,342	6	0	0	30,314	0	.05
56	33,031	6	0	0	30,005	0	.05
57	32,720	6	0	0	29,674	0	.05
58	32,409	6	0	0	29,382	0	.05
59	32,098	6	0	0	29,070	0	.05
60	31,751	6	0	0	0	0	0
60U	1,226	6	0	0	0	0	0
61	20,281	6	0	0	8,266	0	.01
61U	234	6	0	0	0	0	0
62	20,148	6	0	0	18,608	0	.03
63	19,844	6	0	0	18,272	0	.03
64	19,540	6	0	0	17,969	0	.03
65	19,803	6	0	0	0	0	0
66	18,611	6	0	0	0	0	0
66M	6,584	6	0	0	0	0	0
67	24,914	6	0	0	24,135	0	.04
68	15,820	6	0	0	15,075	0	.03
ROOF	2,179	6	0	0	0	0	0
CT ACCESS	0	6	0	0	0	0	0
J-BANK EMR	0	6	0	0	0	0	0
BMU ACCES	0	6	0	0	0	0	0
TMD ROOF	0	6	0	0	0	0	0
CROWN	0	6	0	0	0	0	0
Totals	cont.		0	0	cont.	0	cont.

Total Zoning Floor Area: cont.

6/09

2582. - ZD1-317510.pdf

NYC Buildings

ZD1 Zoning Diagram
Must be typewritten.
Sheet 1 of 3

121186251

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☐ Other App. No. N150072ZCM 93-70
N150073ZCM, N150132ZCM 93-70, 93-71

4 Proposed Floor Area *Required for all applications. One Use Group per line.*

Floor Number	Building Code Gross Floor Area (sq. ft.)	Use Group	Zoning Floor Area (sq. ft.) Residential	Community Facility	Commercial	Manufacturing	FAR
TOWER C - FILED UNDER SEPARATE APPLICATION (121324290) 501 WEST 30TH STREET							
	1,795,712				1,416,900		2.49
TOWER D - FILED UNDER SEPARATE APPLICATION (121184208) 553 WEST 30TH STREET							
	980,274		740,227				1.3
CULTURE SHED - FILED UNDER SEPARATE APPLICATION (121192397) 545 WEST 30TH STREET							
	129,338			76,302			.14
TOWER E - FILED UNDER SEPARATE APPLICATION (121192618) 560 WEST 33RD STREET							
	1,046,332		489,433		387,212		1.53

ZD1
Sheet 1 of 3

4 Proposed Floor Area *Required for all applications. One Use Group per line.*

Floor Number	Building Code Gross Floor Area (sq. ft.)	Use Group	Zoning Floor Area (sq. ft.) Residential	Community Facility	Commercial	Manufacturing	FAR
Totals	7,848,114		1,229,660	76,302	4,860,316	0	10.8

Total Zoning Floor Area: 6,166,278

6/09

REPRINT OF ZD-1 FORM FOR TOWER A & RETAIL PODIUM (APPLICATION # 121186251)
PROVIDED FOR REFENCE ONLY PER REQUEST OF NYC DOB

Hudson Yards Eastern Railyards			
Block/Lots	702 / 8001, 4, 10, 125, 150, 175		
Zoning Map no.	8b/8d		
Zoning District	C6-4/HY (R10 Equivalent)		
	Large-Scale Plan Subdistrict A		
	Eastern Railyards Subarea A1		
Community District	4		
Zoning Lot Area	570,000		
		FAR	Max Zoning Area
Floor Area Allowed (ZR-93-21(b))	Max Commercial FAR	9	5,130,000
	Max Residential FAR	3	1,710,000
	Max Community Facility FAR	2	1,140,000
	Max on Zoning Lot (all uses combined)	11	6,270,000

Floor Area Proposed on ERY[1]

Building	Zoning Floor Area (ZFA) Commercial Use	Residential Use	Community Facility	Total Area by Building
Tower C	**1,416,900**			**1,416,900**
Tower A & Retail Podium[2]	**3,056,204**			**3,056,204**
Tower D		**740,227**		**740,227**
Culture Shed[3]			**76,302**	**76,302**
Tower E	**387,212**	**489,433**		**876,645**
Pavilion[4]	**10,800**			**10,800**
Total ZFA on ERY by Use	**4,871,116**	**1,229,660**	**76,302**	
Total FAR on ERY by Use	**8.546**	**2.157**	**0.134**	
Total ZFA on ERY (all uses)	**6,177,078**			
Total FAR on ERY (all uses)	**10.837**			

1- Areas shown are a compilation of the areas shown on each individual building's application currently on file with the Department of Buildings. These areas are compiled to provide an overview of proposed development on the entire zoning lot. Refer to individual building applications for all other zoning compliance information, including, but not limited to, building location, setbacks and detailed floor area information.

2- Floor area shown on Platform, application # 121331763 is not included above as area is now included in Tower A / Retail Podium application #121186251

3- Floor area shown on Mini-D, application # 121331193 is not included above as area is now included in Culture Shed filing - application #121192397

4- Pavilion has not yet been filed. Area shown is the maximum area allowed under zoning resolution (ZR-93-71(b))

ZR 23-24 / 35-40 - DWELLING UNITS

Dwelling unit counts shown below provided for overview of zoning lot, refer to individual buidling applications for dwelling unit compliance

D.U. Factor (R10 Equivalent)	790
Max FA on site	6,270,000
Commercial FA used	4,871,116
Community Faciliy FA used	77,385
Max Residential FA available on site	1,321,499
Max Number of Dwelling Units	**1,673**

	Dwelling units Provided	
Tower D (#121184208)	391	
Tower E (#121192618)	137	
Total Dwelling Units Provided	**528**	**< 1,677 COMPLIES**

ZR 33-03 / 93-62 - STREET TREES

Frontage along 33rd Street: 800'	
Frontage along Tenth Ave.: 712.5'	
Frontage along 30th Street: 800'	
Frontage along Eleventh Ave.: 712.5'	**121 Trees Required**
Total Frontage: 3,025' / 25' = 121 Trees	**61 Provided**

Note: Trees not provided at curb cuts, underneath existing highline, above DEP water tunnel infrastructure, or along Eleventh Avenue viaduct due to infeasibility of planting.
Refer to individual building applications for further information

ZR 36-62 - OFF-STREET LOADING REQUIREMENTS

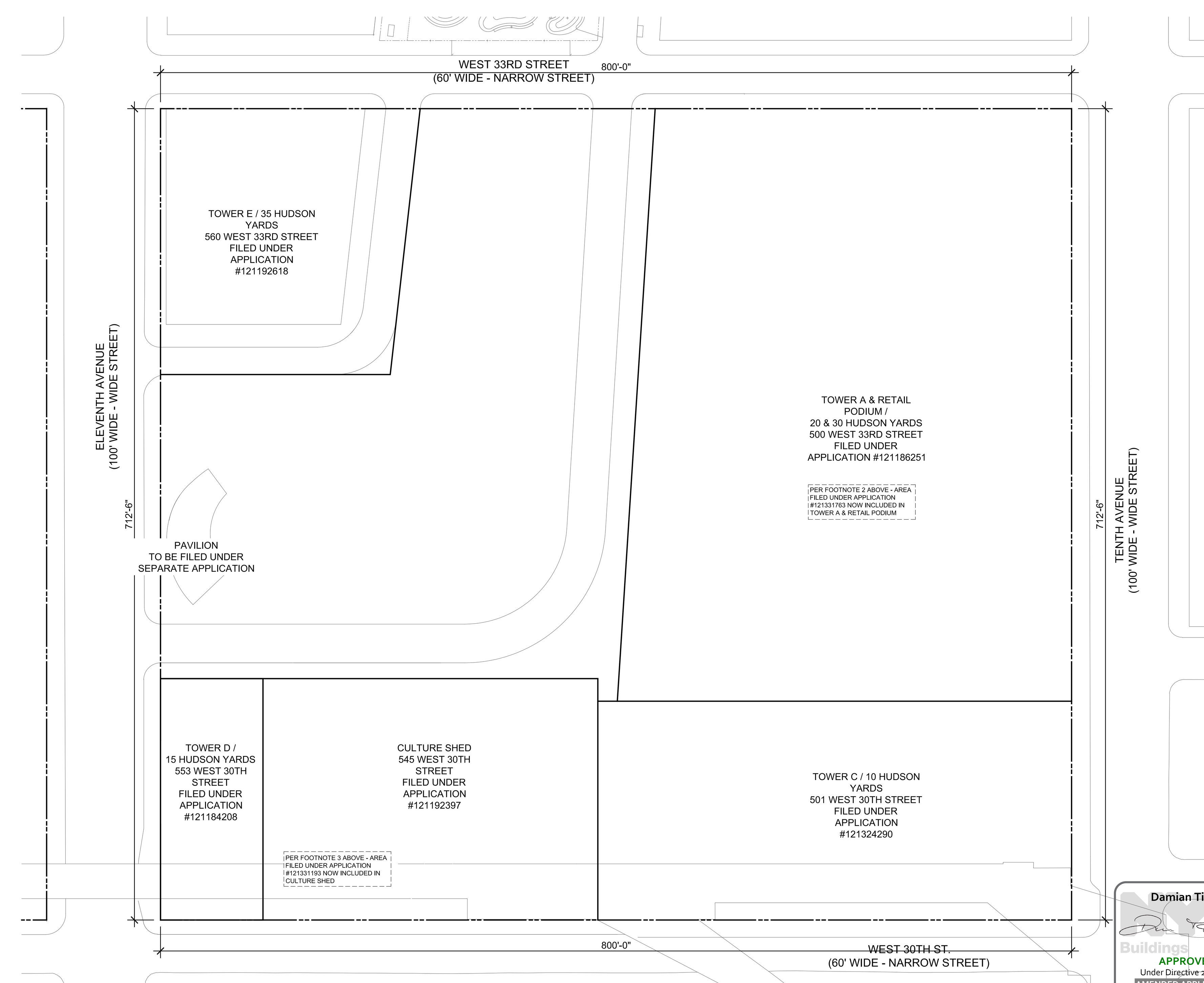
COMPLIANCE WITH ZR 36-62 - REQUIRED ACCESSORY OFF-STREET LOADING BERTHS IS SHOWN ON INDIVIDUAL APPLICATIONS

ZR 36-70 - BICYCLE PARKING

SEE INDIVIDUAL APPLICATIONS FOR DETAILED COMPLIANCE WITH ZR 36-70 - SUMMARY OF COMPLIANCE SHOWN BELOW

	REQUIRED SPACES	PROVIDED SPACES	
TOWER C	188	188	COMPLIES
TOWER A & RETAIL PODIUM	376	376	COMPLIES
TOWER D	195	258	COMPLIES
CULTURE SHED	10	10	COMPLIES
TOWER E	113	113	COMPLIES
PAVILION	NOT YET FILED	NOT YET FILED	N/A
TOTALS	**882**	**945**	**COMPLIES**

2 MASTER PLAN ZONING NOTES



1 SITE PLAN
SCALE: NTS

FOR REFERENCE ONLY
THIS PAGE WAS ORIGINALLY PREPARED UNDER
NB APPLICATION #121186251
BY KOHN PEDERSON FOX ASSOCIATES, PC

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

HUDSON YARDS-
EASTERN RAILYARDS

Block 702
New York, NY

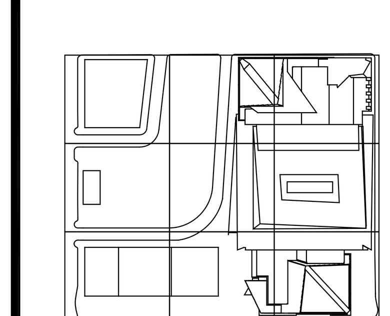
Client
Related Companies
60 Columbus Circle
New York, NY 10023
Tel: 212.801.1000 Fax: 212.801.1048

Oxford Properties
320 Park Avenue, 17th Floor
New York, NY 10022
Tel: 212.986.7514 Fax: 212.986.7510

Architect
Kohn Pedersen Fox Associates PC
Architects & Planning Consultants
11 West 42nd Street
New York, NY 10036
Tel: 212.977.6500 Fax: 212.956.2526

No.	Issue	Date
9	D.O.B. BUILDING PERMIT FILING	5/27/2016
8	D.O.B. BUILDING PERMIT FILING	5/9/2016
7	D.O.B. BUILDING PERMIT FILING	1/8/2016
6	D.O.B. BUILDING PERMIT FILING	11/13/2015
5	D.O.B. BUILDING PERMIT FILING	7/31/2015
4	D.O.B. BUILDING PERMIT FILING	4/17/2015
3	D.O.B. BUILDING PERMIT FILING	4/10/2015
2	D.O.B. BUILDING PERMIT FILING	4/2/2015
1	D.O.B. BUILDING PERMIT FILING	2/26/2015

Key Plan



Date 6/20/2014
Project No. 1776
Drawn By
Sheet Number

HYE-ERY-Z-000-00

Drawing Title
ZONING
FLOOR AREA
MASTER PLAN

Drawing Number
Z0-000
B-Scan Drawing Number
Z-000.00

SHEET 1 OF X

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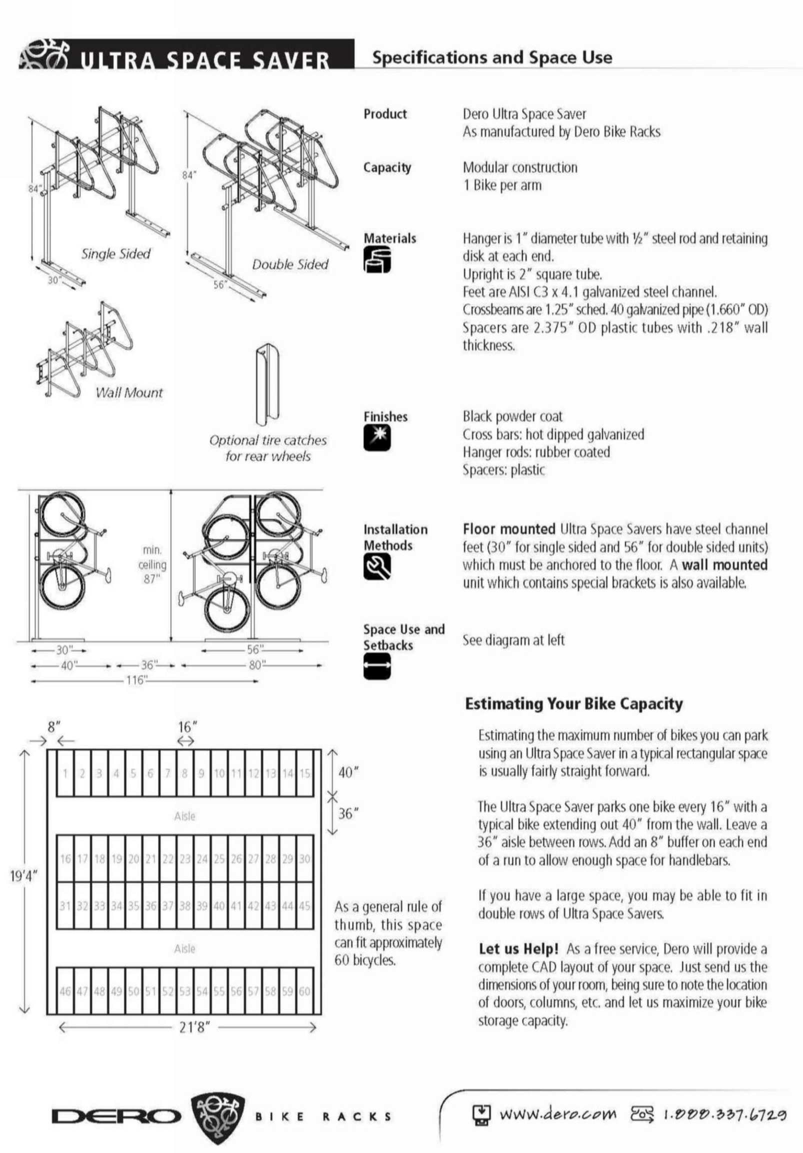
Filename: P:\Projects\1776_WestSideYards\Documents\Zoning\KPF\002_ZoningDOB\Zoning_MasterPlan\HYE-ERY-Z-000-00.dwg Plotted by: Fitzgerald-Green, Robin Plot Time: 4/10/2015 6:02 PM

DEPT OF BLDGS 121192397 Job Number
ES835985871 Scan Code



ULTRA SPACE SAVER — Specifications and Space Use

Product — Dero Ultra Space Saver. As manufactured by Dero Bike Racks

Capacity — Modular construction. 1 Bike per arm

Materials — Hanger is 1" diameter tube with ½" steel rod and retaining disk at each end. Upright is 2" square tube. Feet are AISI C3 x 4.1 galvanized steel channel. Crossbeams are 1.25" sched. 40 galvanized pipe (1.660" OD). Spacers are 2.375" OD plastic tubes with .218" wall thickness.

Finishes — Black powder coat. Cross bars: hot dipped galvanized. Hanger rods: rubber coated. Spacers: plastic

Installation Methods — **Floor mounted** Ultra Space Savers have steel channel feet (30" for single sided and 56" for double sided units) which must be anchored to the floor. A **wall mounted** unit which contains special brackets is also available.

Space Use and Setbacks — See diagram at left

Estimating Your Bike Capacity

Estimating the maximum number of bikes you can park using an Ultra Space Saver in a typical rectangular space is usually fairly straight forward.

The Ultra Space Saver parks one bike every 16" with a typical bike extending out 40" from the wall. Leave a 36" aisle between rows. Add an 8" buffer on each end of a run to allow enough space for handlebars.

If you have a large space, you may be able to fit in double rows of Ultra Space Savers.

Let us Help! As a free service, Dero will provide a complete CAD layout of your space. Just send us the dimensions of your room, being sure to note the location of doors, columns, etc. and let us maximize your bike storage capacity.

As a general rule of thumb, this space can fit approximately 60 bicycles.

DERO BIKE RACKS — www.dero.com 1.888.337.6729

BIKE RACK SPECIFICATIONS	4
	NTS

ZR 36-70 BICYCLE PARKING

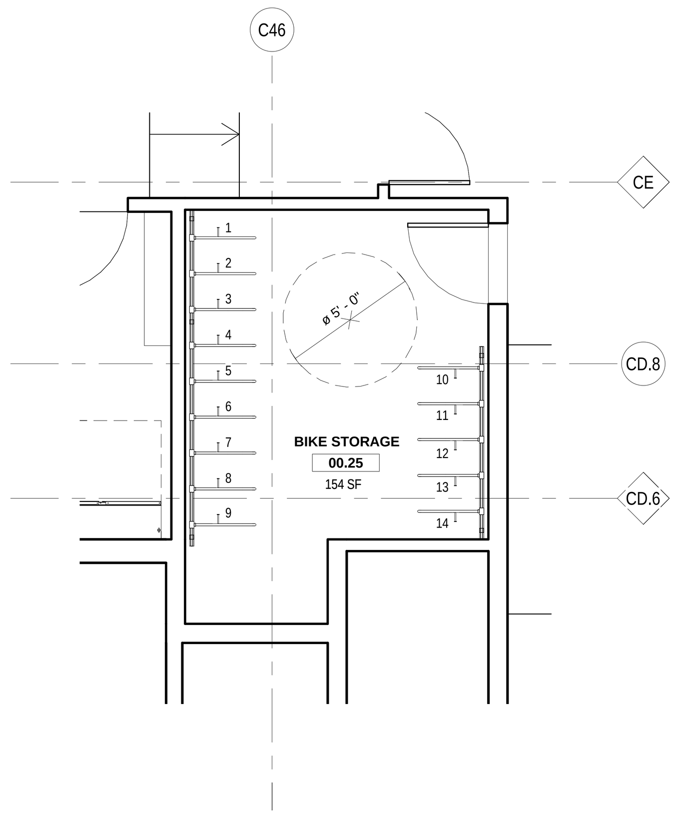
ZR 36-711 ENCLOSED BICYCLE PARKING

1 PER 20,000 SF GROSS FLOOR AREA
207,247 SF
20,000 SF/BICYCLE
= 10.36 BICYCLES

10 BICYCLE PARKING SPACES REQUIRED — 15 SF REQUIRED PER BICYCLE

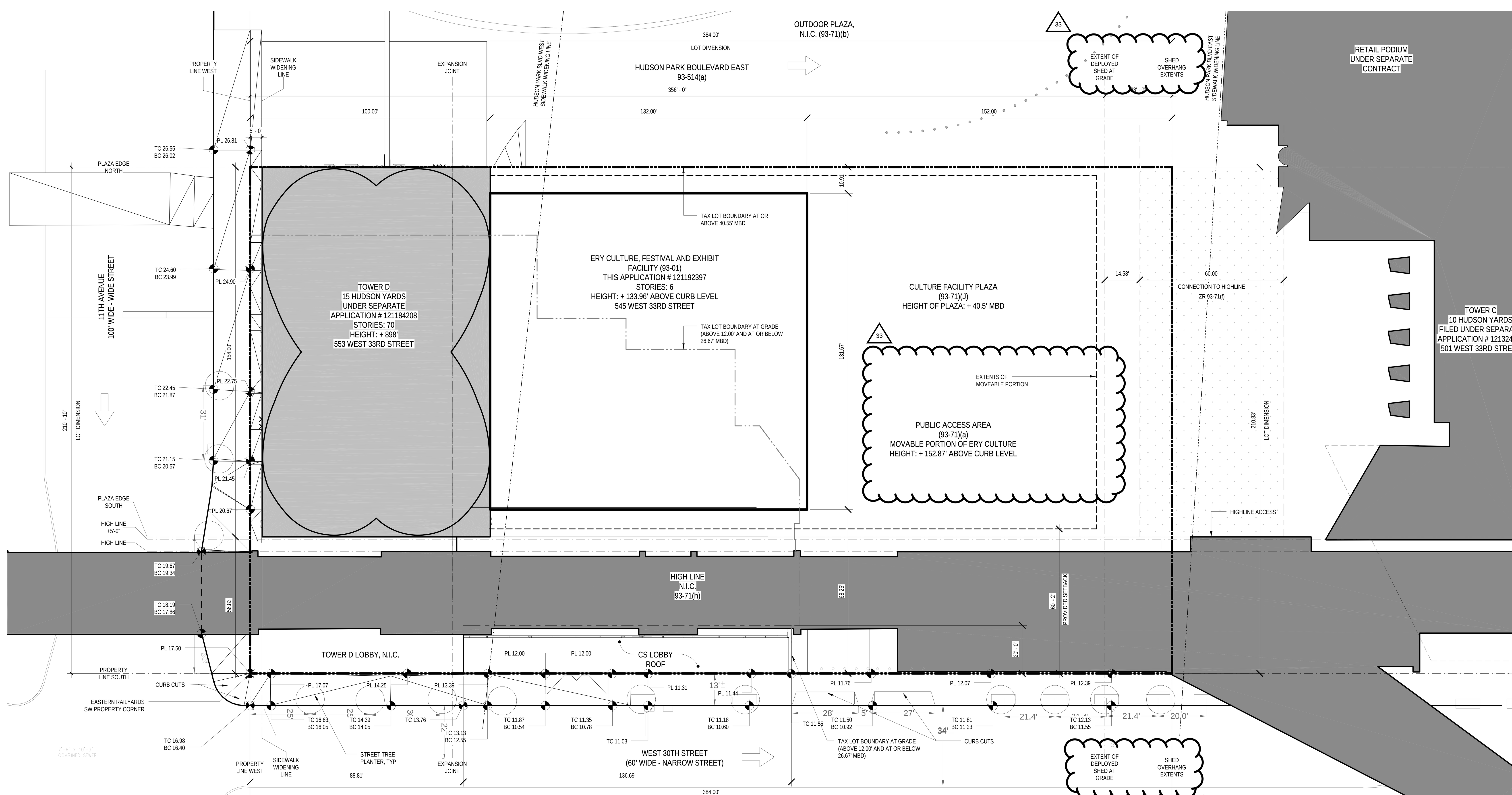
150 SF OF ENCLOSURE REQUIRED

154 SF PROVIDED



BICYCLE PARKING PLAN - ZONING CALCULATION	3
	1/4" = 1'-0"

ZONING MAP	2
	12" = 1'-0"



CURB LEVEL CALCULATION: ABOVE MANHATTAN BOROUGH DATUM : 14.04' (SEE CALCULATIONS ON SHEET Z-001.00)	LEVEL 01 ELEVATION:	AV. ROOF ELEVATION:	BUILDING HEIGHT:
	27.00'	148.00'	133.96'

Damian Titus
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
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ZONING LOT PLAN	1
	1" = 20'-0"

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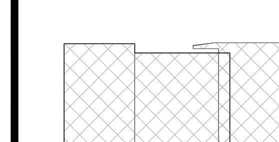
KEY PLAN



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44	33	DOB AMENDMENT 5	04.08.2016
17		DOB AMENDMENT 2	09.03.2015
13		DOB AMENDMENT 1	08.03.2015

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REGISTERED ARCHITECT — RICARDO SCOFIDIO — STATE OF NEW YORK — 008800

DRAWN BY Author
CHECKED BY Checker

PROJECT NUMBER
11017

TITLE
ZONING DIAGRAMS, LOT PLAN

DRAWING NO.
Z-002.01

B-SCAN NO.
Z-002.01

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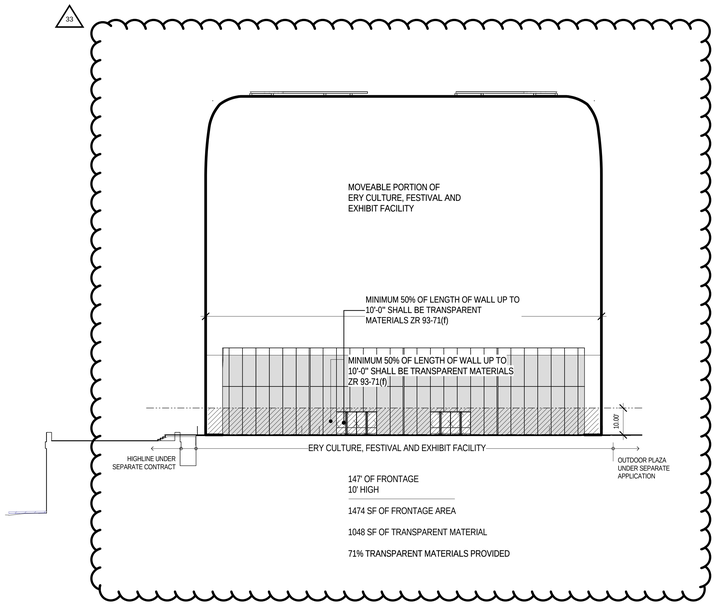
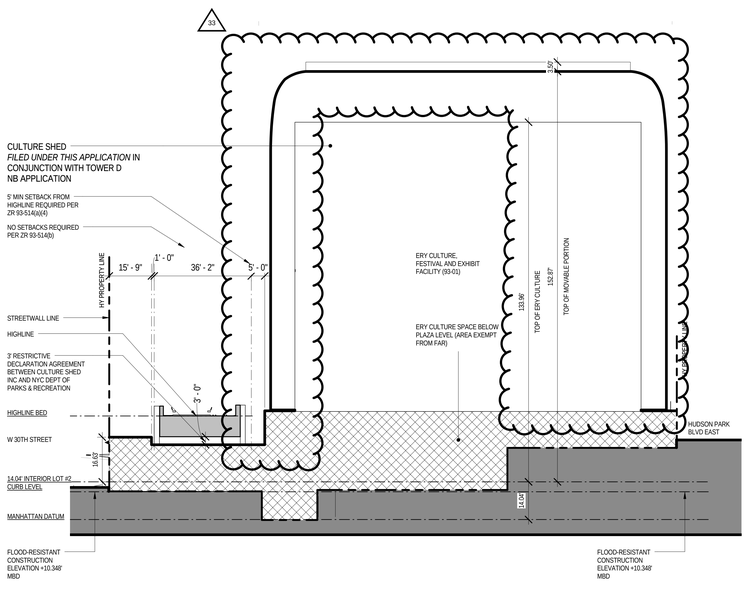


CONNECTION TO HIGH LINE - TRANSPARENCY REQUIREMENTS

4

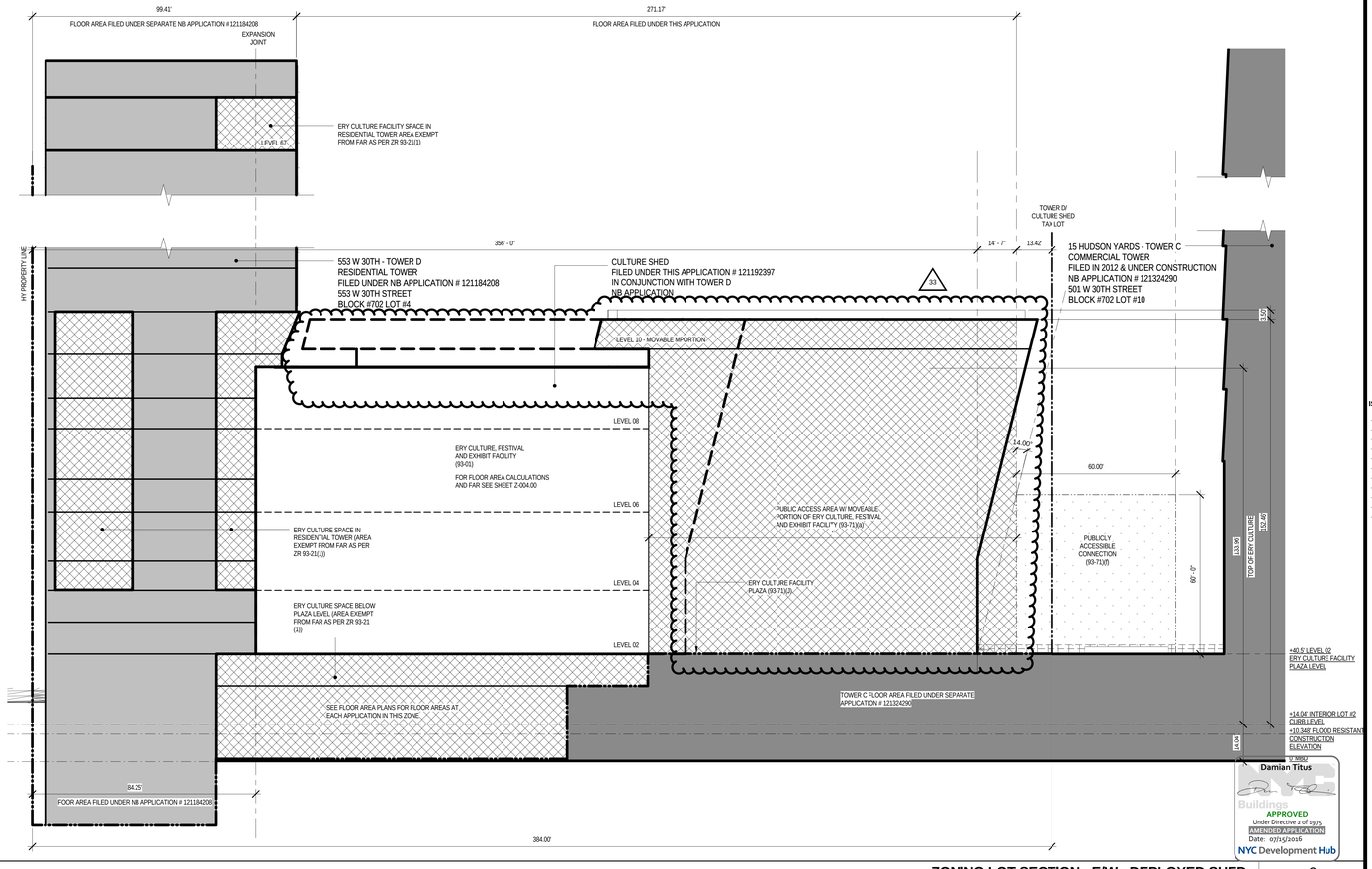
1" = 20'-0"



ZONING SECTION - N-S - NESTED SHED

3

1" = 20'-0"



ZONING LOT SECTION - E/W - DEPLOYED SHED

2

1" = 20'-0"

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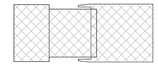
KEY PLAN



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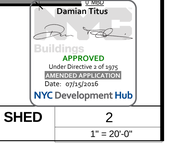
PROJECT NUMBER
11017

TITLE
ZONING DIAGRAMS, SECTIONS



DRAWING NO.
Z-003.01

B-SCAN NO.
Z-003.01

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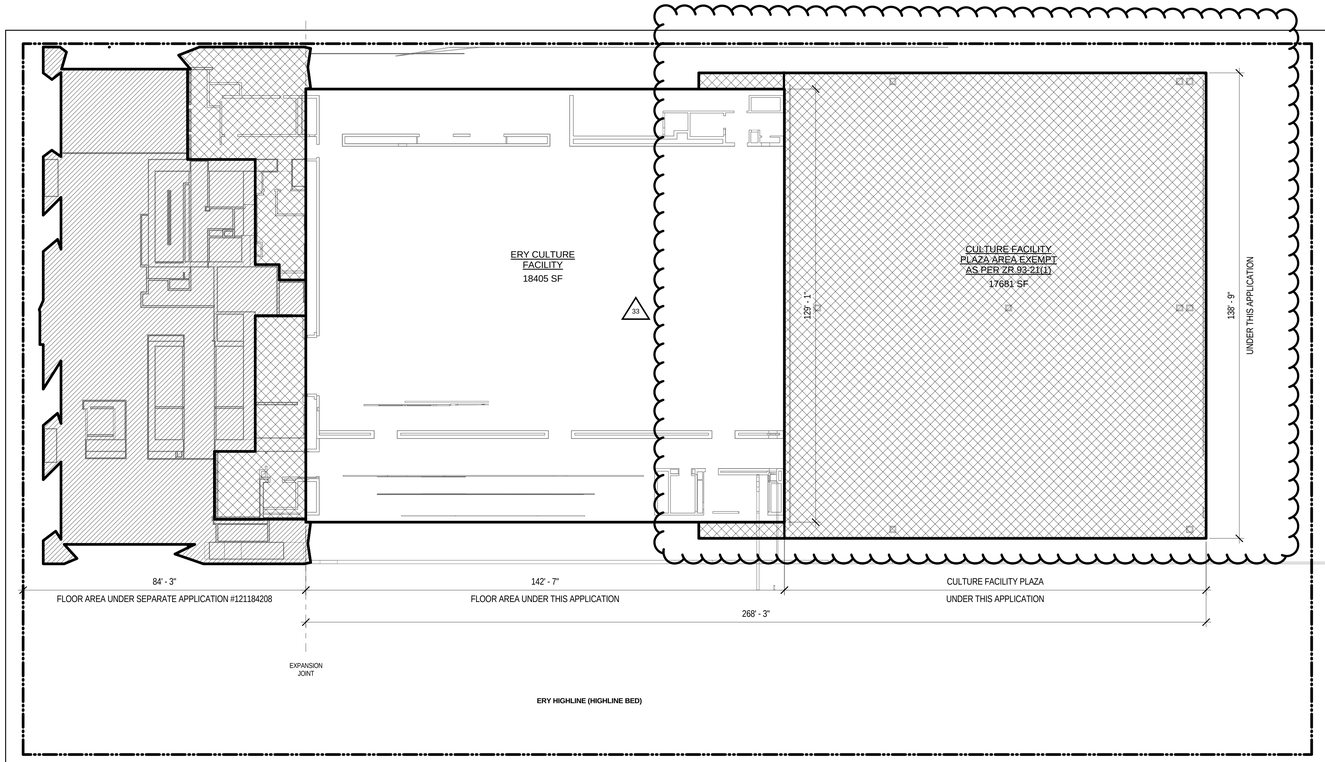


ZONING FLOOR AREA AND FLOOR AREA RATIO CALCULATIONS

SEE DRAWING Z-003.00, Z-004.00 Z-005.00 AND Z-006.00 FOR FLOOR AREA CALCULATIONS

FLOOR #	GROSS FLOOR AREA	DEDUCTIONS	EXEMPTIONS	ZONING FLOOR AREA
LEVEL 00	9,330 SF	0 SF	9,330 SF	0 SF
LEVEL 01	7,128 SF	0 SF	7,128 SF	0 SF
LEVEL 02	36,085 SF	0 SF	17,681 SF	18,404 SF
LEVEL 03	774 SF	35 SF	0 SF	739 SF
LEVEL 04	18,653 SF	94 SF	0 SF	18,559 SF
LEVEL 05	774 SF	35 SF	0 SF	739 SF
LEVEL 06	18,654 SF	94 SF	0 SF	18,560 SF
LEVEL 07	774 SF	35 SF	0 SF	739 SF
LEVEL 08	18,654 SF	94 SF	0 SF	18,560 SF
LEVEL 09	0 SF	0 SF	0 SF	0 SF
LEVEL 10	18,512 SF	0 SF	18,512 SF	0 SF
LEVEL 67	0 SF	0 SF	0 SF	0 SF
TOTAL	129,338 SF	385 SF	52,651 SF	76,302 SF

33

NOTE: FOR CULTURE SHED FIT-OUT SPACES IN TOWER D AND TOWER C, SEE TOWER D APPLICATION # 121184208 AND TOWER C APPLICATION # 121324290

ZONING FLOOR AREA AND FAR CALCULATION

33

ZONING LOT AREA	800' x 712.5'	=	570,000 SF	
FLOOR AREA SUMMARY	GROSS FLOOR AREA			129,338 SF
	FLOOR AREA EXEMPTIONS + DEDUCTIONS		(385 SF + 52,651 SF)	-53,038 SF
	TOTAL ZONING FLOOR AREA			76,302 SF
FLOOR AREA RATIO (FAR)	ZFA	76,302 SF	=	.134
	LOT AREA	570,000 SF		

ZONING USE KEY

- ELECTRICAL
- ERY CULTURE FACILITY
- ERY CULTURE FACILITY AREA EXEMPT AS PER ZR 93-21(1)
- EXEMPT RESIDENTIAL CORE AREA EXEMPT AS PER ZR 93-21(1)
- FIRE PROTECTION
- MECHANICAL DEDUCTION
- PLUMBING
- RESIDENTIAL AREA
- RESIDENTIAL AREA BELOW GRADE
- RESIDENTIAL AREA OPEN TO BELOW

ZONING FLOOR AND FAR CALCULATIONS 3 — 3" = 1'-0"

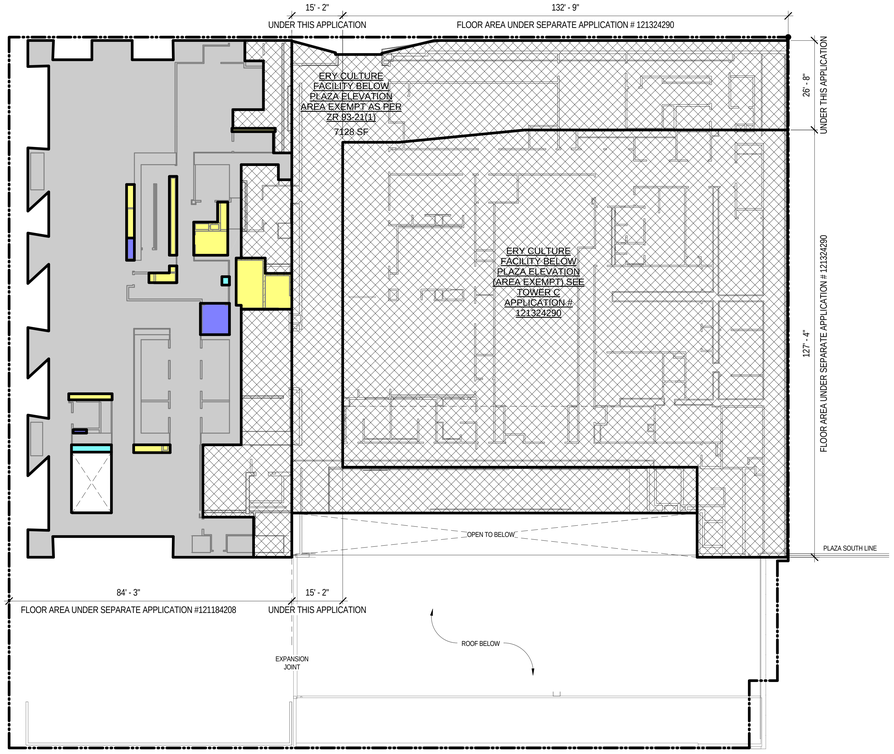
ZONING USE KEY 2 — 3" = 1'-0"

GROSS FLOOR AREA LEVEL 02
36085 SF

ZONING FLOOR AREA DEDUCTIONS/EXEMPTIONS LEVEL 02		
ZONING DEDUCTION #	ZONING AREA TYPE	DEDUCTION AREA
	CULTURE FACILITY PLAZA AREA EXEMPT AS PER ZR 93-21(1)	17681 SF

ZONING FLOOR AREA LEVEL 02
18405 SF

LEVEL 02 ZONING FLOOR AREA 5 — 1/16" = 1'-0"



GROSS FLOOR AREA LEVEL 01
7128 SF

ZONING FLOOR AREA DEDUCTIONS/EXEMPTIONS LEVEL 01		
ZONING DEDUCTION #	ZONING AREA TYPE	DEDUCTION AREA
	ERY CULTURE FACILITY BELOW PLAZA ELEVATION AREA EXEMPT AS PER ZR 93-21(1)	7128 SF

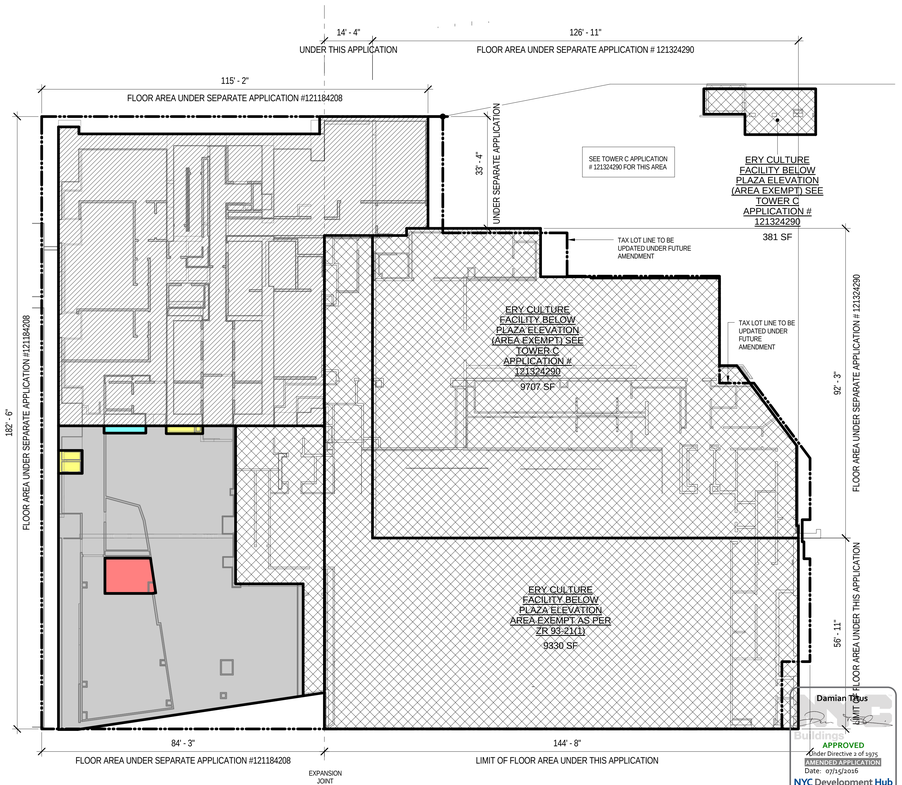
ZONING FLOOR AREA LEVEL 01
0 SF

LEVEL 01 ZONING FLOOR AREA 4 — 1/16" = 1'-0"

GROSS FLOOR AREA LEVEL 00
9330 SF

ZONING FLOOR AREA DEDUCTIONS/EXEMPTIONS LEVEL 00		
ZONING DEDUCTION #	ZONING AREA TYPE	DEDUCTION AREA
	ERY CULTURE FACILITY BELOW PLAZA ELEVATION AREA EXEMPT AS PER ZR 93-21(1)	9330 SF

ZONING FLOOR AREA LEVEL 00
0 SF



Damian Titus
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

LEVEL 00 ZONING FLOOR AREA 1 — 1/16" = 1'-0"

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KEY PLAN

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13		DOB AMENDMENT 1	08.03.2015
10	4	100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

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REGISTERED ARCHITECT RICARDO SCOFIDIO 098800 STATE OF NEW YORK

DRAWN BY RS
CHECKED BY MS

PROJECT NUMBER
11017

TITLE
ZONING USE KEY, ZONING FLOOR AREA AND RATIO CALCULATIONS, LEVEL 00, 01, 02 ZONING FLOOR AREA PLANS

DRAWING NO.
Z-004.01

B-SCAN NO.
Z-004.01

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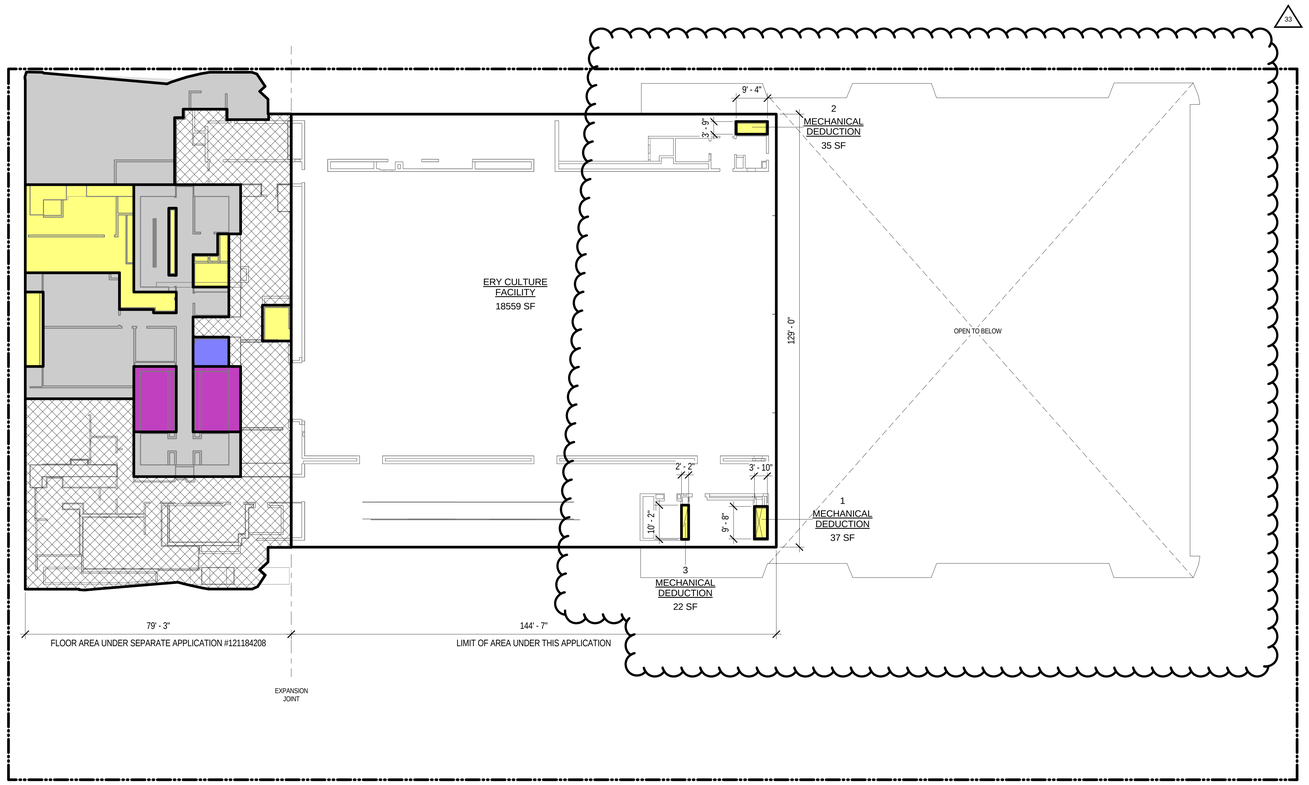


GROSS FLOOR AREA LEVEL 04
18653 SF

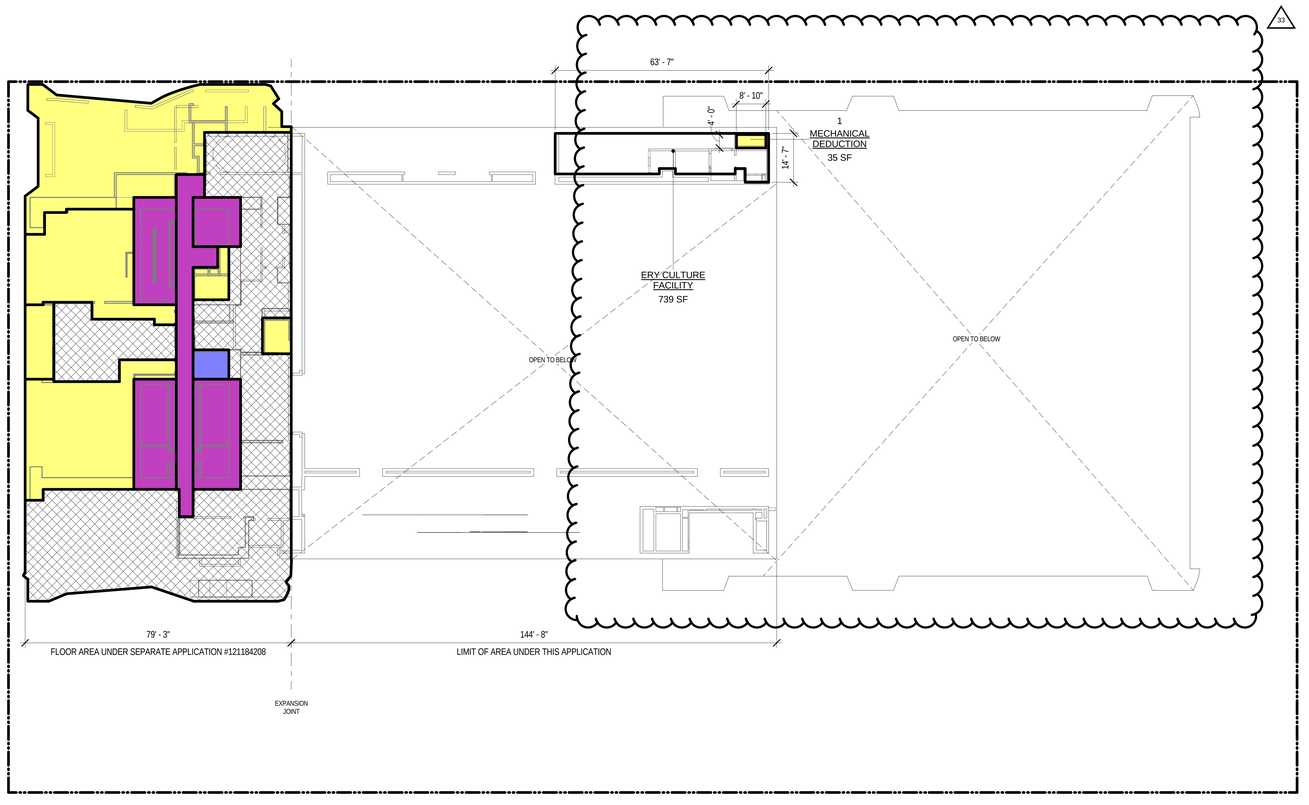
ZONING FLOOR AREA DEDUCTIONS/ EXEMPTIONS LEVEL 04		
ZONING DEDUCTION #	ZONING AREA TYPE	DEDUCTION AREA
1	MECHANICAL DEDUCTION	37 SF
2	MECHANICAL DEDUCTION	35 SF
3	MECHANICAL DEDUCTION	22 SF
Grand total		94 SF

ZONING FLOOR AREA LEVEL 04
18559 SF

LEVEL 04 ZONING FLOOR AREA

2

1/16" = 1'-0"



GROSS FLOOR AREA LEVEL 03
774 SF

ZONING FLOOR AREA DEDUCTIONS/ EXEMPTIONS LEVEL 03		
ZONING DEDUCTION #	ZONING AREA TYPE	DEDUCTION AREA
1	MECHANICAL DEDUCTION	35 SF

ZONING FLOOR AREA LEVEL 03
739 SF

LEVEL 03 ZONING FLOOR AREA

1

1/16" = 1'-0"

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

LEGEND

ZONING USE KEY

- ELECTRICAL
- ERY CULTURE FACILITY
- ERY CULTURE FACILITY AREA EXEMPT AS PER ZR 93-21(1)
- EXEMPT RESIDENTIAL CORE AREA EXEMPT AS PER ZR 93-21(1)
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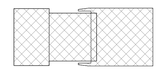

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REGISTERED ARCHITECT RICHARD SCOFIDIO 098800 STATE OF NEW YORK

DRAWN BY Author
CHECKED BY MS

PROJECT NUMBER 11017

TITLE

LEVEL 02, 03 ZONING FLOOR AREA

DRAWING NO.

Z-005.01

B-SCAN NO.

Z-005.01

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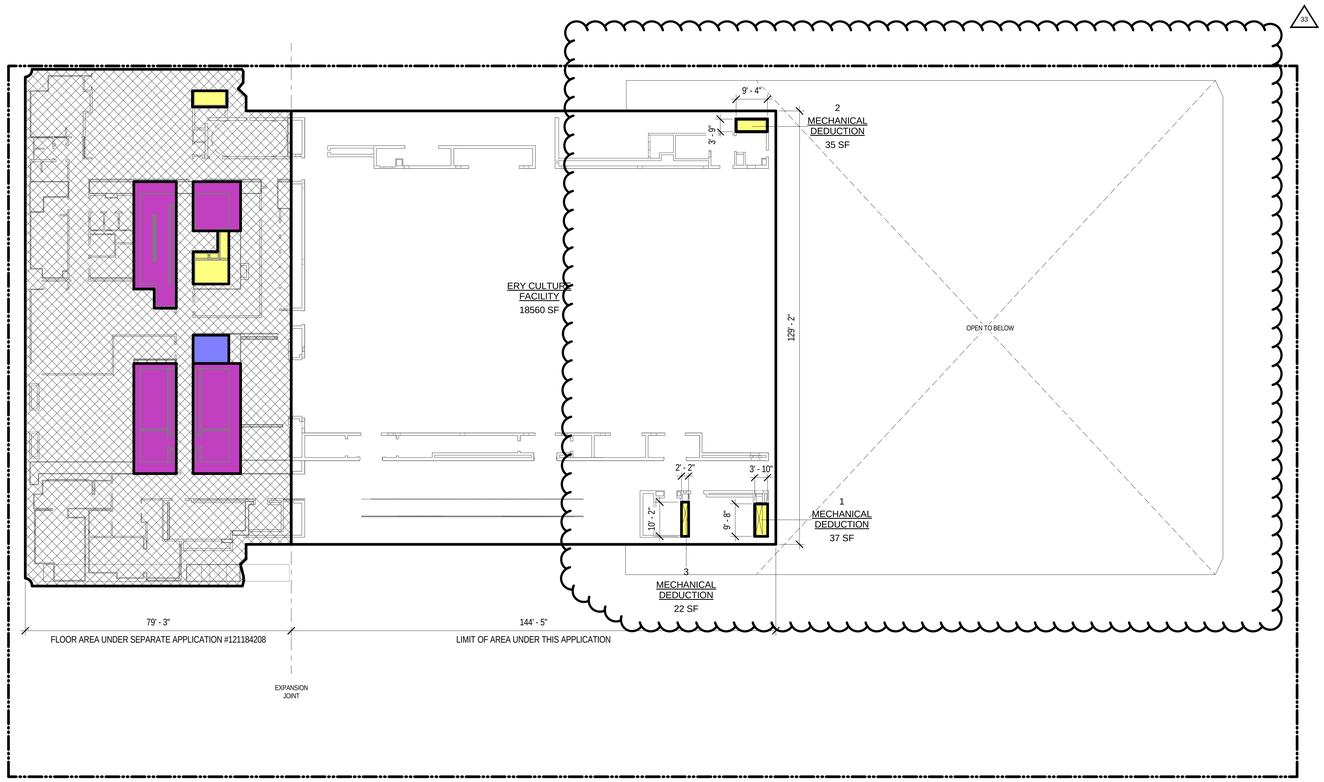


GROSS FLOOR AREA LEVEL 06
18654 SF

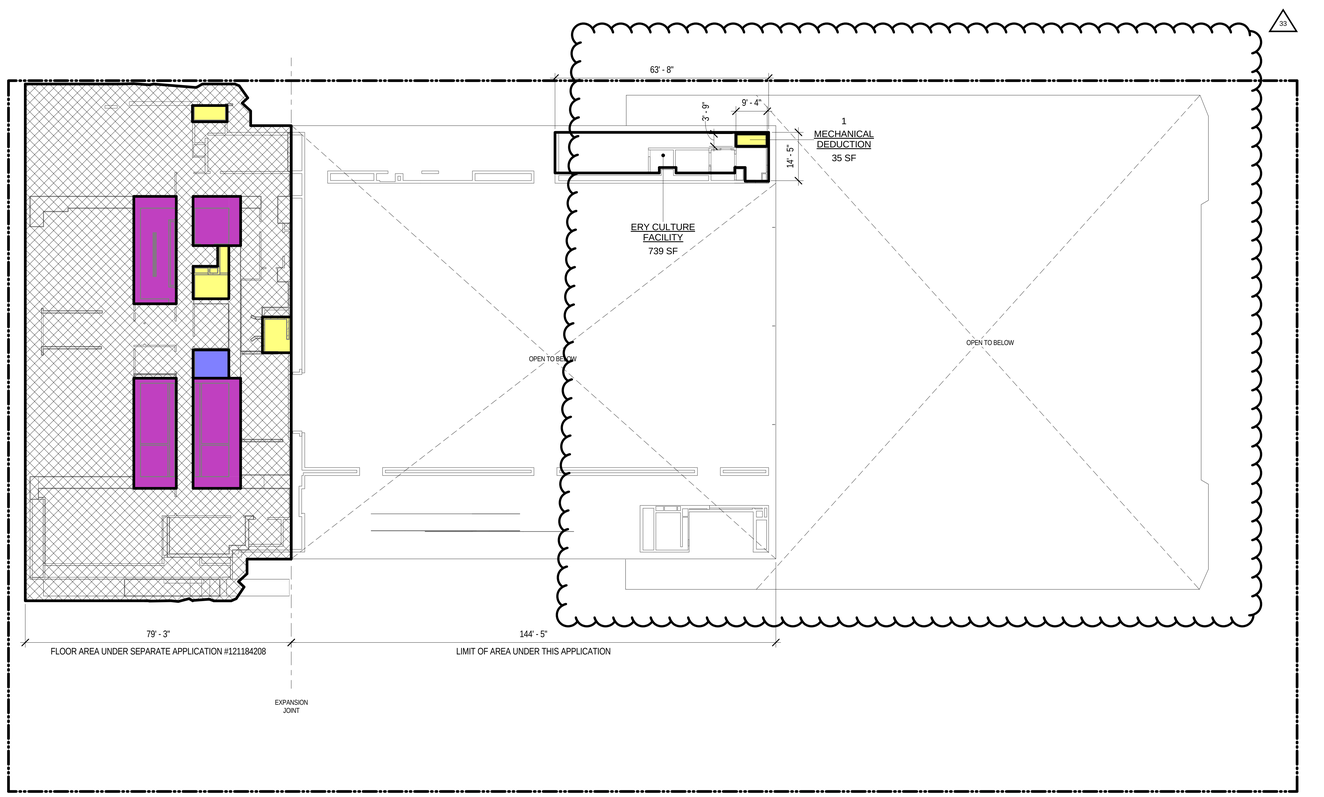
ZONING FLOOR AREA DEDUCTIONS/ EXEMPTIONS LEVEL 06		
ZONING DEDUCTION #	ZONING AREA TYPE	DEDUCTION AREA
1	MECHANICAL DEDUCTION	37 SF
2	MECHANICAL DEDUCTION	35 SF
3	MECHANICAL DEDUCTION	22 SF
Grand total		94 SF

ZONING FLOOR AREA LEVEL 06
18560 SF

LEVEL 06 ZONING FLOOR AREA

2

1/16" = 1'-0"



GROSS FLOOR AREA LEVEL 05
774 SF

ZONING FLOOR AREA DEDUCTIONS/ EXEMPTIONS LEVEL 05		
ZONING DEDUCTION #	ZONING AREA TYPE	DEDUCTION AREA
1	MECHANICAL DEDUCTION	35 SF

ZONING FLOOR AREA LEVEL 05
739 SF

LEVEL 05 ZONING FLOOR AREA

1

1/16" = 1'-0"

LEGEND

ZONING USE KEY

- ELECTRICAL
- ERY CULTURE FACILITY
- ERY CULTURE FACILITY AREA EXEMPT AS PER ZR 93-21(1)
- EXEMPT RESIDENTIAL CORE AREA EXEMPT AS PER ZR 93-21(1)
- FIRE PROTECTION
- MECHANICAL DEDUCTION
- PLUMBING
- RESIDENTIAL AREA
- RESIDENTIAL AREA BELOW GRADE
- RESIDENTIAL AREA OPEN TO BELOW

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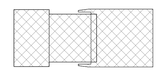
KEY PLAN



ISSUE		PRINTING	DATE
44	33	DOB AMENDMENT 5	04.08.2016
19		DOB AMENDMENT 3	09.16.2015
17		DOB AMENDMENT 2	09.03.2015

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REGISTERED ARCHITECT RICHARD SCOFIDIO 008800 STATE OF NEW YORK

DRAWN BY Author
CHECKED BY Checker

PROJECT NUMBER
11017

TITLE

LEVEL 05, 06 ZONING FLOOR AREA

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
Z-006.01

B-SCAN NO.
Z-006.01

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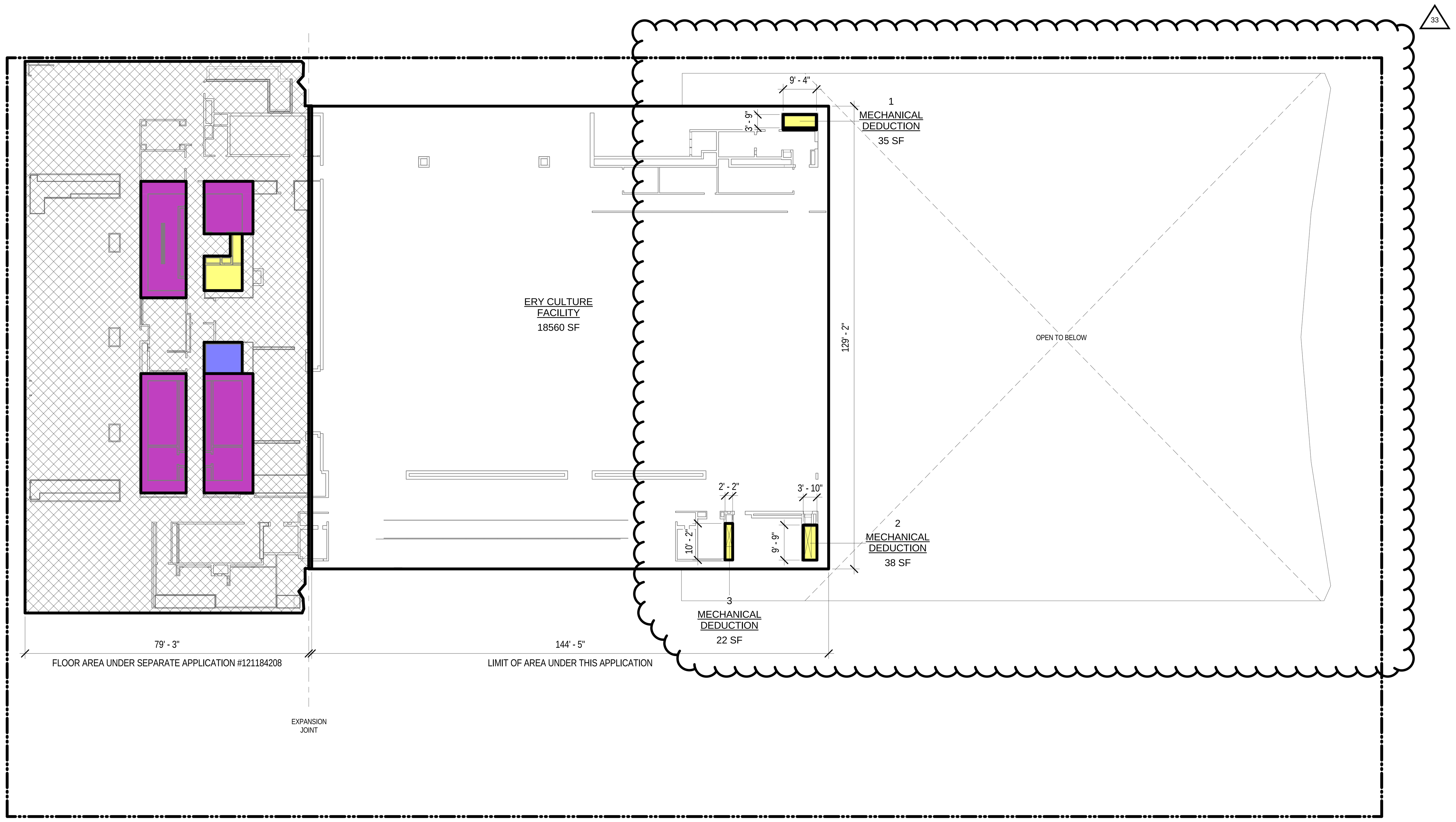


GROSS FLOOR AREA LEVEL 08
18654 SF

ZONING FLOOR AREA DEDUCTIONS/ EXEMPTIONS LEVEL 08

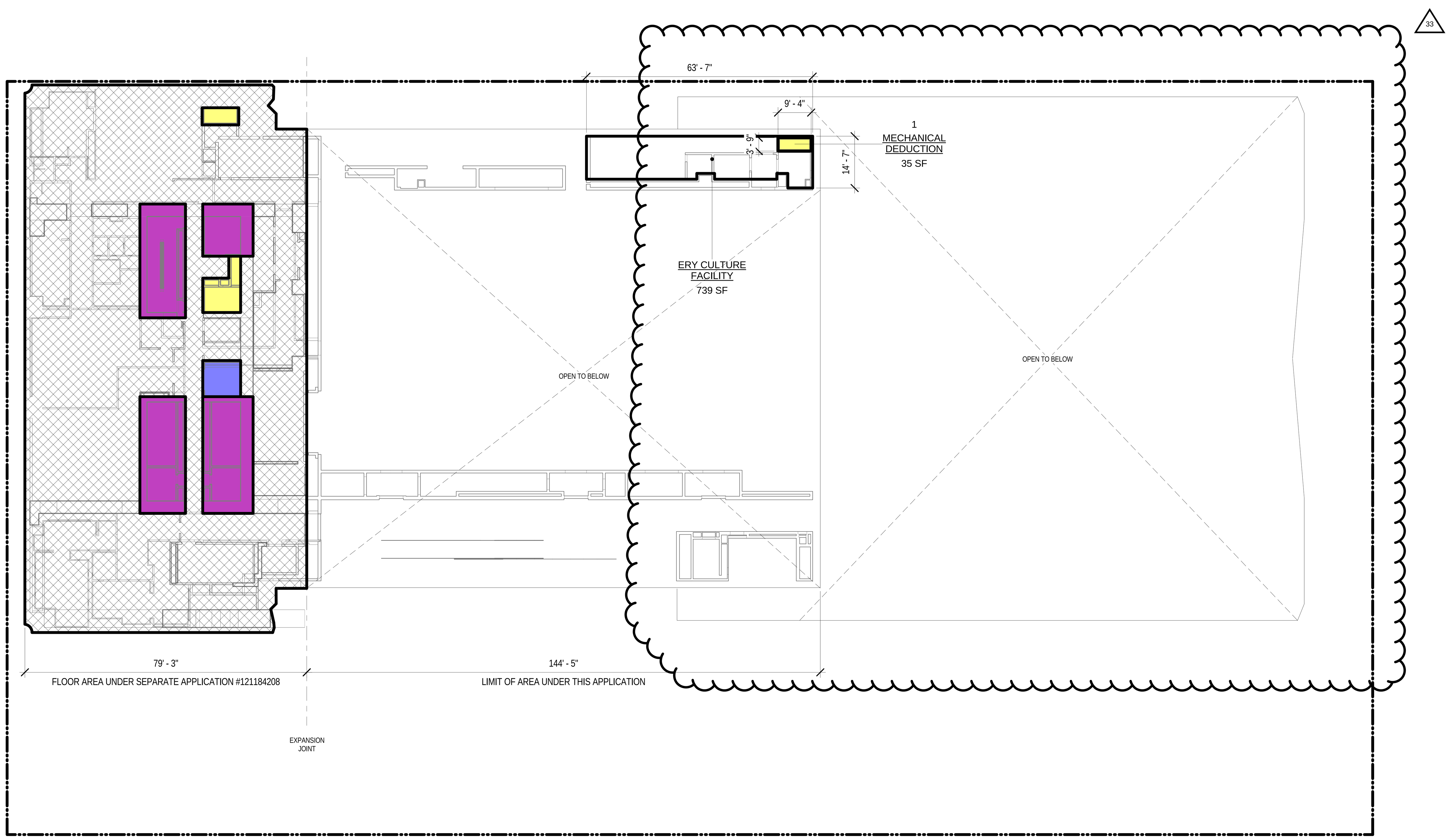
ZONING DEDUCTION #	ZONING AREA TYPE	DEDUCTION AREA
2	MECHANICAL DEDUCTION	38 SF
1	MECHANICAL DEDUCTION	35 SF
3	MECHANICAL DEDUCTION	22 SF
Grand total		94 SF

ZONING FLOOR AREA LEVEL 08
18560 SF

LEVEL 08 ZONING FLOOR AREA

2

1/16" = 1'-0"



GROSS FLOOR AREA LEVEL 07
774 SF

ZONING FLOOR AREA DEDUCTIONS/ EXEMPTIONS LEVEL 07

ZONING DEDUCTION #	ZONING AREA TYPE	DEDUCTION AREA
1	MECHANICAL DEDUCTION	35 SF

ZONING FLOOR AREA LEVEL 07
739 SF

LEVEL 07 ZONING FLOOR AREA

1

1/16" = 1'-0"

LEGEND

ZONING USE KEY

- ELECTRICAL
- ERY CULTURE FACILITY
- ERY CULTURE FACILITY AREA EXEMPT AS PER ZR 93-21(1)
- EXEMPT RESIDENTIAL CORE AREA EXEMPT AS PER ZR 93-21(1)
- FIRE PROTECTION
- MECHANICAL DEDUCTION
- PLUMBING
- RESIDENTIAL AREA
- RESIDENTIAL AREA BELOW GRADE
- RESIDENTIAL AREA OPEN TO BELOW

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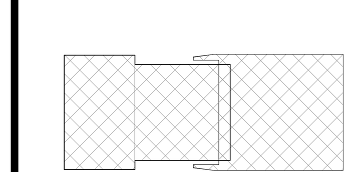

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REGISTERED ARCHITECT RICARDO SCOFIDIO STATE OF NEW YORK 008800

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWN BY Author
CHECKED BY Checker

PROJECT NUMBER
11017

TITLE
LEVELS 07, 08 ZONING FLOOR AREA

DRAWING NO.
Z-007.01

B-SCAN NO.
Z-007.01

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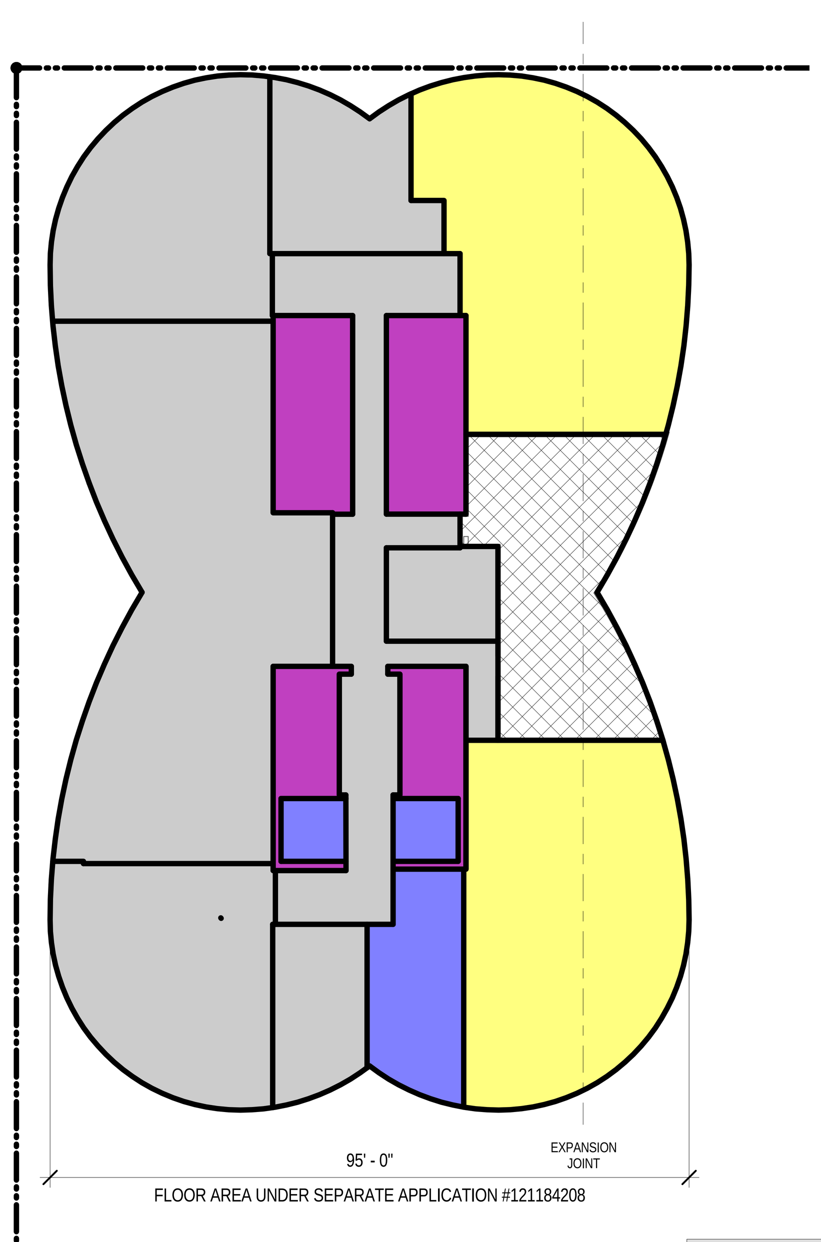
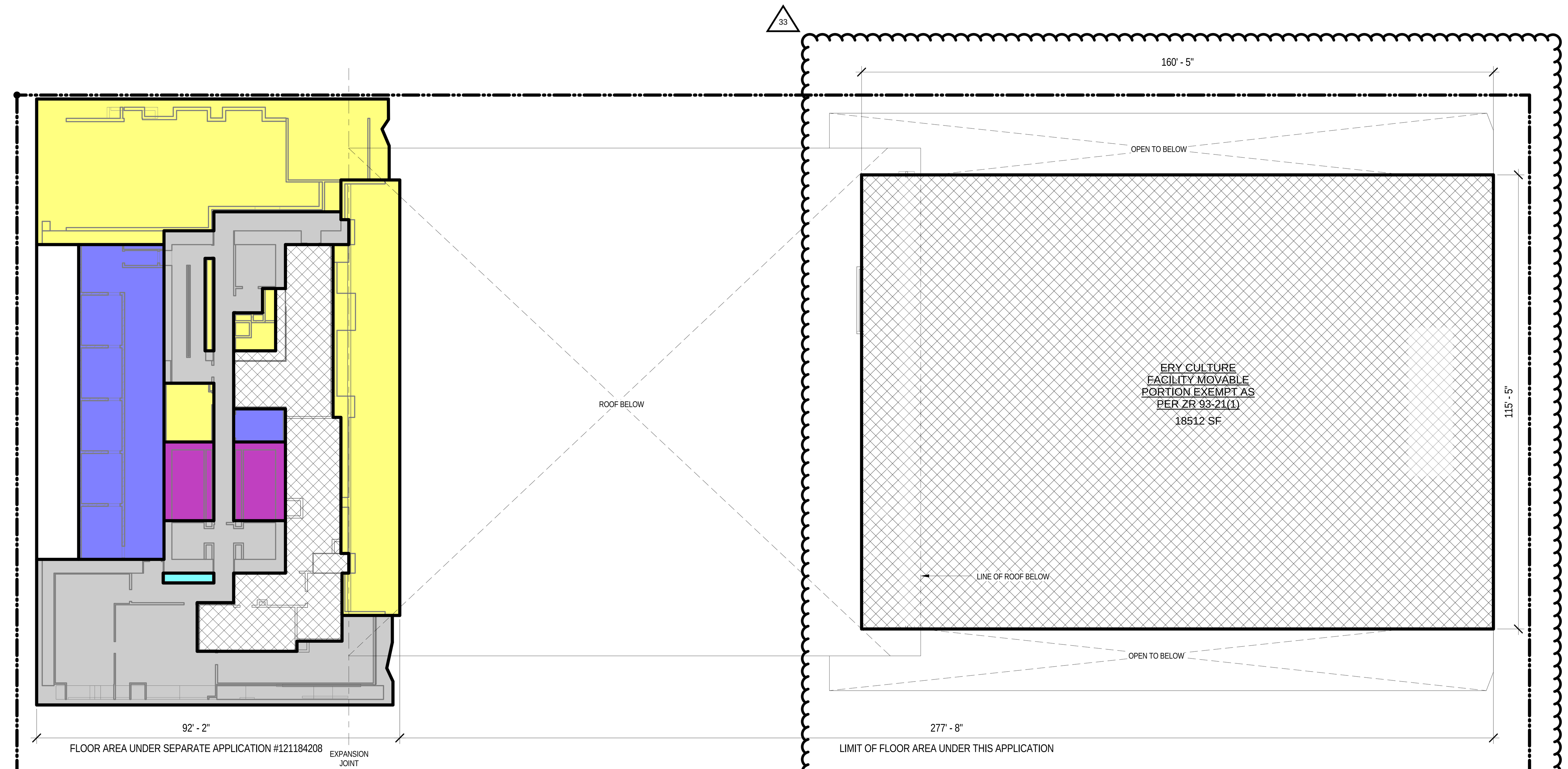


GROSS FLOOR AREA LEVEL 67
0 SF

ZONING FLOOR AREA DEDUCTIONS/ EXEMPTIONS LEVEL 67		
ZONING DEDUCTION #	ZONING AREA TYPE	DEDUCTION AREA

ZONING FLOOR AREA LEVEL 67
0 SF

LEVEL 67 ZONING FLOOR AREA 3
1/16" = 1'-0"

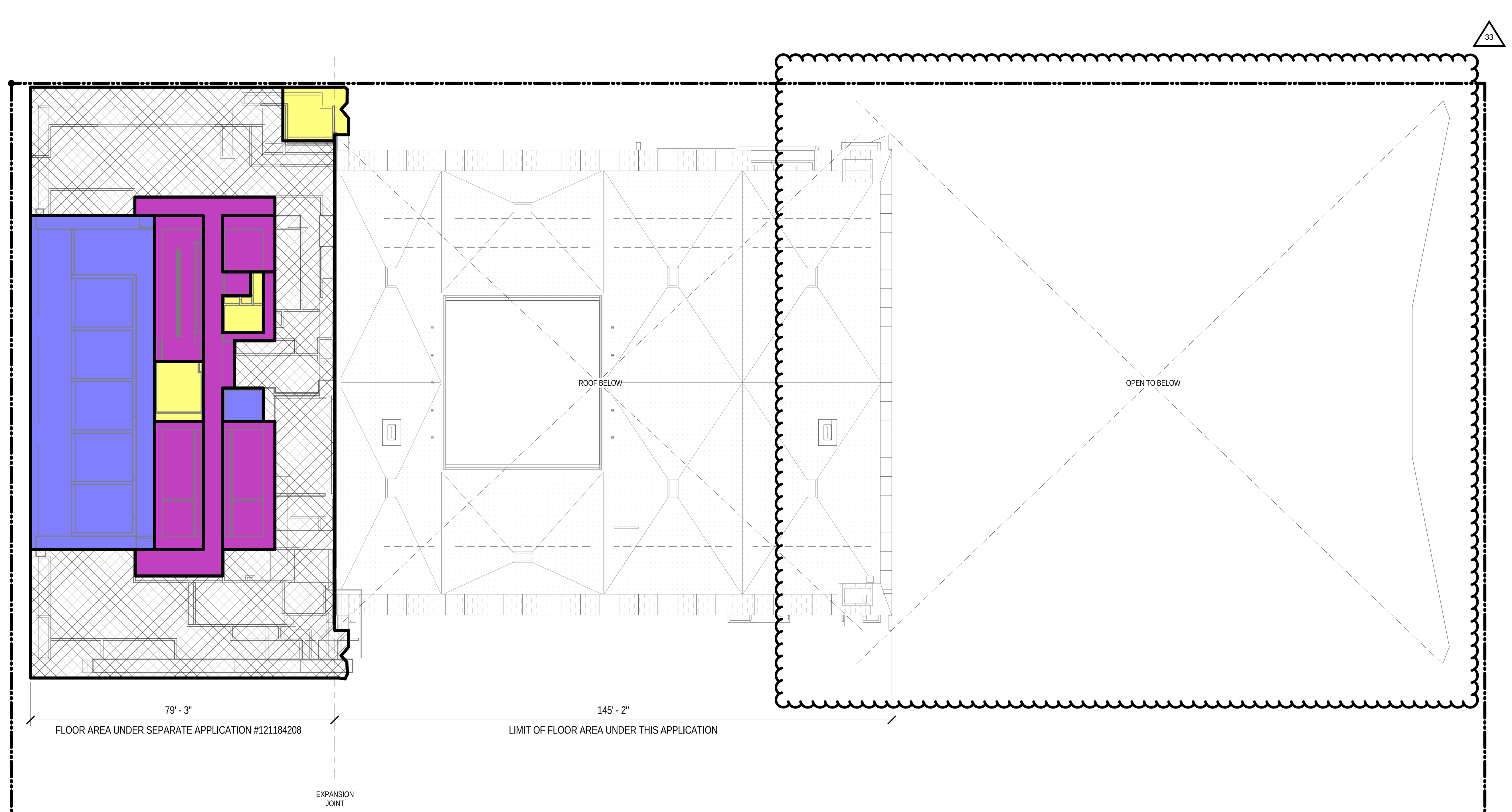


GROSS FLOOR AREA LEVEL 10
18512 SF

ZONING FLOOR AREA DEDUCTIONS/EXEMPTIONS LEVEL 10		
ZONING DEDUCTION #	ZONING AREA TYPE	DEDUCTION AREA
	ERY CULTURE FACILITY MOVABLE PORTION EXEMPT AS PER ZR 93-21(1)	18512 SF

ZONING FLOOR AREA LEVEL 10
0 SF

LEVEL 10 ZONING FLOOR AREA 2
1/16" = 1'-0"



GROSS FLOOR AREA LEVEL 09
0 SF

ZONING FLOOR AREA DEDUCTIONS/ EXEMPTIONS LEVEL 09		
ZONING DEDUCTION #	ZONING AREA TYPE	DEDUCTION AREA

ZONING FLOOR AREA LEVEL 09
0 SF

LEVEL 09 ZONING FLOOR AREA 1
1/16" = 1'-0"

LEGEND

ZONING USE KEY

- ELECTRICAL
- ERY CULTURE FACILITY
- ERY CULTURE FACILITY AREA EXEMPT AS PER ZR 93-21(1)
- EXEMPT RESIDENTIAL CORE AREA EXEMPT AS PER ZR 93-21(1)
- FIRE PROTECTION
- MECHANICAL DEDUCTION
- PLUMBING
- RESIDENTIAL AREA
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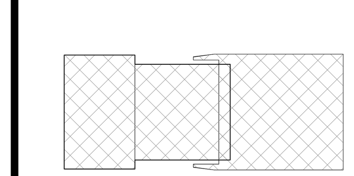

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Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWN BY Author
CHECKED BY Checker

PROJECT NUMBER
11017

TITLE
LEVEL 09, 10, 67 ZONING FLOOR AREA

DRAWING NO.
Z-008.01

B-SCAN NO.
Z-008.01

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NEW YORK CITY ENERGY CODE COMPLIANCE PROGRESS INSPECTIONS

	INSPECTION/TEST	PERIODIC (MINIMUM)	REFERENCE STANDARD OR OTHER CRITERIA	REFERENCE STANDARD	REQ'D
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	C303.2.1; 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	C303.1, C303.1.1, C303.1.2, C402.1, C402.2; ASHRAE 90.1-5.5, 5.6 OR 11; 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 IDENTIFIED IN THE CONSTRUCTION DRAWINGS BY VERIFYING THE MANUFACTURER'S NFRC LABELS OR, WHERE NOT LABELED, USING THE RATINGS IN NYCECC TABLES. VISIBLE LIGHT TRANSMITTANCE VALUES SHALL ALSO BE VERIFIED.	AS REQUIRED DURING INSTALLATION	APPROVED CONSTRUCTION DOCUMENTS, NFRC 100, NFRC 200, TABLES 102.1.3	C303.1, C303.1.3, C402.3; ASHRAE 90.1-5.5; 5.6 OR 11; 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	C402.4.3; 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	C402.3; ASHRAE 90.1-5.5.4.2, 5.6 OR 11	●
IIA6	AIR SEALING AND INSPECTION-VISUAL: OPENINGS AND PENETRATIONS IN THE BUILDING ENVELOPE, INCLUDING SITE-BUILT FENESTRATION AND DOORS, SHALL BE VISUALLY INSPECTED TO VERIFY THAT THEY ARE PROPERLY SEALED.	AS REQUIRED DURING CONSTRUCTION	APPROVED CONSTRUCTION DOCUMENTS	C402.4; 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	C402.3; ASHRAE 90.1-5.5.4, 5.6 or 11	●
IIA8	LOADING DOCK WEATHER SEALS: WEATHER SEALS AT LOADING DOCKS SHALL BE VISUALLY VERIFIED	AS REQUIRED DURING CONSTRUCTION	APPROVED CONSTRUCTION DOCUMENTS	C402.4.6; 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	C402.4.7 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	C402.2.9; BC 2111; MC CHAPTERS 7, 8, 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	C403.2.4.4; 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	C403.2. C404.2, C404.7, C406.2; ASHRAE 90.1 - 6.3 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 DEMONSTRATED 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	C403.2.4, C403.2.5.1, C403.2.11, C403.3, C403.4, C404.3 C404.6, C404.7; ASHRAE 90.1-6.3 6.4, 6.5, 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	C403.2.7, C403.2.8, C404.5, MC 603.9 ASHRAE 90.1-6.3, 6.4.4, 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 NYCECC C403.2.1.3, 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	C403.2.7.1.3 ASHRAE 90.1-6.4.4.2.2	●
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	C405.7	●
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	C405.1; ASHRAE 90.1-9.1.1	
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	C405.5, C406.3; ASHRAE 90.1-9.1, 9.2, 9.5, 9.6; 1RCNY101-07(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	C405.6; 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	C405.2; ASHRAE 90.1-9.4.1 (AS MODIFIED BY SECTION NYCECC A102)	●
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	C405.4; 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 VERFIY THAT THEY COMPLY WITH THE RESPECTIVE ENERGY REQUIREMENTS IN THE CONSTRUCTION DOCUMENTS.	PRIOR TO FINAL INSPECTION	APPROVED CONSTRACTION DOCUMENTS	C403.2.10; 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 SYSTEMS SHALL BE INSPECTED FOR ACCURACY AND COMPLETENESS	PRIOR TO FINAL INSPECTION	APPROVED CONSTRACTION DOCUMENTS	C303.3, C408.2.5.2; 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.

GENERAL NOTES

1. ALL WORK UNDER THIS APPLICATION SHALL COMPLY WITH THE 2011 NEW YORK CITY ENERGY CONSERVATION CODE (ECC).
2. BUILDING UNDER THIS APPLICATION LIES WITHIN CATEGORY "A" OR MOIST DESIGNATION AND IS LOCATED IN CLIMATE ZONE 4 (NEW YORK COUNTY) PER ECC TABLE 301.1.
3. BUILDING MATERIALS SHALL BE IDENTIFIED TO ALLOW DETERMINATION OF COMPLIANCE PER NYC ECC 303.1.
4. BUILDING UNDER THIS APPLICATION IS DEFINED AS A COMMERCIAL BUILDING PER NYC ECC 202 AND SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 5: COMMERCIAL ENERGY EFFICIENCY OF THE 2010 NYC ECC AND SHALL MEET THE REQUIREMENTS OF ASHRAE/IESNA STANDARD 90.1, ENERGY STANDARD FOR BUILDINGS.
5. COMMERCIAL BUILDING UNDER THIS APPLICATION SHALL COMPLY WITH THE REQUIREMENTS IN ECC SECTIONS 502 (BUILDING ENVELOPE REQUIREMENTS, ECC 503 (BUILDING MECHANICAL SYSTEMS), ECC 504 (SERVICE WATER HEATING) AND ECC 505 (ELECTRICAL POWER AND LIGHTING SYSTEMS).
6. ALL EXTERIOR FENESTRATIONS (DOORS AND WINDOWS) UNDER THIS APPLICATION ARE CONSIDERED "SITE--CONSTRUCTED WINDOWS AND DOORS THAT ARE WEATHERSTRIPPED OR SEALED " PER EXCEPTION UNDER ECC 502.4.1 AND SHALL CONFORM TO SECTION 502.4.3
7. ALL CURTAIN WALLS, STOREFRONT GLAZING AND COMMERCIAL-GLAZED SWINGING ENTRANCE DOORS SHALL BE TESTED FOR AIR LEAKAGE AT 1.57 POUNDS PER SQUARE FOOT IN ACCORDANCE WITH NYC ECC 502.4.2.
8. A CONTINUOUS AIR BARRIER SHALL BE INSTALLED IN ACCORDANCE AND ALL SEAMS, OPENINGS, AND PENETRATIONS OF THE BUILDING ENVELOPE SHALL BE SEALED WITH CAULKING MATERIALS OF CLOSED WITH GASKETING SYSTEMS COMPATIBLE WITH THE CONSTRUCTION MATERIALS AND LOCATION. ALL SEALING MATERIALS SHALL ALLOW FOR CONTRACTION AND EXPANSION OF THE CONSTRUCTION MATERIALS. IN ACCORDANCE WITH SUCH AIR BARRIER SHALL BE:
   1. CONTINUOUS THROUGHOUT THE ENVELOPE WITH ALL JOINTS AND SEAMS SEALED AND WITH SEALED CONNECTIONS BETWEEN ALL TRANSITIONS IN PLANES, CHANGES IN MATERIALS, AND AT ALL PENETRATIONS.
   2. INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND IN SUCH A MANNER AS TO ACHIEVE THE PERFORMANCE REQUIREMENTS.
   3. 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.
   4. PENETRATIONS OF THE CONTINUOUS AIR BARRIER SHALL BE MADE IN A WAY SUCH THAT THE INTEGRITY OF THE CONTINUOUS AIR BARRIER IS MAINTAINED.
9. COMPLIANCE FOR CONTINUOUS AIR BARRIERS SHALL BE AS FOLLOWS: THE BUILDING SHALL BE TESTED UNDER OPTION 1 OF ECC 502.4.3.1: MATERIALS. USING INDIVIDUAL MATERIALS THAT HAVE AN AIR PERMEABILITY NOT TO EXCEED .02 L/sm^2 UNDER A PRESSURE DIFFERENTIAL OF 75 Pa WHEN TESTED IN ACCORDANCE WITH ASTM E 2178.
10. 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 I MOTORIZED, LEAKAGE-RATED DAMPER PER NYC ECC 502.4.4.
11. CARGO AND LOADING DOCK DOORS SHALL BE EQUIPPED WITH WEATHERSEALS TO RESTRICT INFILTRATION WHEN VEHICLES ARE PARKED IN THE DOORWAY. LOADING DOCK UNDER THIS APPLICATION SHALL HAVE VEHICLES PARKED FULLY INSIDE BUILDING ENVELOPE WITH DOOR IN CLOSED POSITION.
12. RECESSED LUMINAIRES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO LIMIT AIR LEAKAGE BETWEEN CONDITIONED AND UNCONDITIONED SPACES. ALL RECESSED LUMINARIES SHALL BE IC-RATED AND LABELED AS MEETING ASTM E 283 PER NYC ECC 502.4.7.
13. VAPER RETARDER SHALL BE PROVIDED PER NYC ECC 502.5, ALTHOUGH NOT REQUIRED FOR ZONE 4.
14. BUILDING MECHANICAL SYSTEMS SHALL COMPLY WITH MANDATORY REQUIREMENTS OF NYC ECC SECTION 503.
15. SERVICE WATER HEATING SHALL COMPLY WITH MANDATORY REQUIREMENTS OF NYC ECC SECTION 504.
16. ELECTRICAL POWER AND LIGHTING SYSTEMS SHALL COMPLY WITH MANDATORY REQUIREMENTS OF NYC ECC SECTION 505.
17. TOTAL BUILDING PERFORMANCE SHALL COMPLY WITH MANDATORY REQUIREMENTS OF NYC ECC SECTION 506.
18. PROGRESS ENERGY INSPECTIONS SHALL BE PROVIDED PER TABLE 1RCNY 5000-01(hh)(2) AS DESCRIBED IN NEW YORK CITY ENERGY CODE COMPLIANCE PROGRESS INSPECTIONS TABLE ON THIS SHEET.
19. ALL SYSTEMS SHALL BE FULLY COMMISSIONED.

EXTERIOR WALL SYSTEM (EWS) & ROOF ENERGY CODE ANALYSIS TABLE

move

TYPE	DESCRIPTION	THERMAL TRANSMITTANCE (U FACTOR)	U FACTOR NYC ECC CODE MAXIMUM PER TABLE 502.1.2	SHGC	SHGC NYC ECC CODE MAXIMUM PER TABLE 502.3	AREA	LOCATION
EWS-1*	THREE FOIL ETFE WITH FRIT PATTERN ON ONE OR TWO LAYERS	0.56 Btu / hr.ft °F	0.50 Btu / hr.ft °F	0.42	0.40	37,141 sf	ETFE CUSHION CLADDING PANELS ON PRIMARY SHED STRUCTURE
EWS-1A	INSULATED METAL PANEL BARRIER SYSTEM	0.369 Btu / hr.ft °F	0.064 Btu / hr.ft °F	N/A	N/A	1,675 sf	BARRIER PANELS AT ENCLOSURES OUT OF VIEW
EWS-1C	STRUCTURAL STEEL CLADDING OVER PRIMARY STEEL	0.216 Btu / hr.ft °F	0.064 Btu / hr.ft °F	N/A	N/A	8,320 sf	STEEL PANEL CLADDING AT THERMAL ENCLOSURE
EWS-10	MONUMENTAL GLASS PANELS ON STEEL DOOR FRAME	0.27 Btu / hr.ft °F	0.50 Btu / hr.ft °F	0.35	0.40	11,625 sf	SHED GUILLOTINE DOOR GLAZING
					TOTAL	**58,761 sf**	* SEE EN-121.00 FOR U-VALUE DETAILS

SHED MOVABLE BUILDING ENVELOPE SUMMARY CHART - GROSS ROOF AREA

TYPE	DESCRIPTION	THERMAL TRANSMITTANCE (U FACTOR)	NYC ECC CODE MAXIMUM	SHGC	SHGC NYC ECC CODE MAXIMUM PER TABLE 502.3	AREA	LOCATION
ROOF-1*	INTEGRALLY COLORED PVC ROOFING SYSTEM OVER COMPOSITE DECK	0.047 Btu / hr.ft °F	.048 Btu / hr.ft °F	N/A	N/A	19,300 sf	MOVABLE SHED ROOF
					TOTAL	**19,300 sf**	* SEE EN-121.00 FOR U-VALUE DETAILS

FIXED BUILDING ENVELOPE SUMMARY CHART - GROSS WALL AREA

TYPE	DESCRIPTION	THERMAL TRANSMITTANCE (U FACTOR)	NYC ECC CODE MAXIMUM	SHGC	SHGC NYC ECC CODE MAXIMUM PER TABLE 502.3	AREA (SF)	LOCATION
EWS-2	CABLE STAYED CLAMP FITTING POINT SUPPORTED GLAZING SYSTEM	0.27 Btu / hr.ft °F	0.50 Btu / hr.ft °F	0.350000	0.400000	17,406	FIXED BUILDING NORTH AND SOUTH PUBLIC SPACE
EWS-3	TWO-SIDE SUPPORTED SSG AND BUTT GLAZED THERMALLY BROKEN STEEL AND GLASS ASSEMBLY	0.27 Btu / hr.ft °F	0.50 Btu / hr.ft °F	0.350000	0.400000	11,734	FIXED BUILDING NORTH AND SOUTH CORE
EWS-4	TWO-SIDE SUPPORTED SSG AND BUTT GLAZED THERMALLY BROKEN STEEL AND GLASS ASSEMBLY	0.28 Btu / hr.ft °F	0.50 Btu / hr.ft °F	0.500000	0.400000	10,732	FIXED BUILDING EAST
EWS-4A	TWO-SIDE SUPPORTED SSG AND BUTT GLAZED THERMALLY BROKEN MONUMENTAL STOREFRONT	0.27 Btu / hr.ft °F	0.85 Btu / hr.ft °F	0.500000	0.400000	2,065	FIXED BUILDING EAST MOVABLE DOOR
EWS-5*	TWO-SIDE SUPPORTED SSG AND BUTT GLAZED THERMALLY BROKEN MONUMENTAL STOREFRONT	0.27 Btu / hr.ft °F	0.50 Btu / hr.ft °F	0.350000	0.400000	2,446	30TH STREET STOREFRONT
EWS-5A*	TWO-SIDE SUPPORTED SSG AND BUTT GLAZED THERMALLY BROKEN MONUMENTAL STOREFRONT	0.27 Btu / hr.ft °F	0.85 Btu / hr.ft °F	0.350000	0.400000	449.000000	30TH STREET STOREFRONT ENTRANCES
EWS-6	TWO-SIDE SUPPORTED SSG AND BUTT GLAZED THERMALLY BROKEN MONUMENTAL STOREFRONT	0.27 Btu / hr.ft °F	0.50 Btu / hr.ft °F	0.350000	0.400000	1,363	31ST STREET STOREFRONT
EWS-6A	STEEL SUPPORTED STONE PANEL RAINSCREEN ASSEMBLY	0.049 Btu / hr.ft °F	0.064 Btu / hr.ft °F	N/A	N/A	373.000000	31ST STREET STOREFRONT ENTRANCES
EWS-7	TWO-SIDE SUPPORTED SSG AND BUTT GLAZED THERMALLY BROKEN MONUMENTAL STOREFRONT	0.27 Btu / hr.ft °F	0.50 Btu / hr.ft °F	0.350000	0.400000	967.000000	30TH STREET LOBBY CLERESTORY
EWS-9*	METAL PANEL RAINSCREEN ASSEMBLY	0.062 Btu / hr.ft °F	0.064 Btu / hr.ft °F	N/A	N/A	3368.000000	FIXED BUILDING TOP AND 30TH STREET BOH
EWS-13	LAP-SEAM METAL WALL PANEL ASSEMBLY	0.062 Btu / hr.ft °F	.064 Btu / hr.ft °F	N/A	N/A	1200.000000	30TH ST LOBBY CLERESTORY
					TOTAL	**52,103**	* SEE EN-120.00 FOR U-VALUE DETAILS

FIXED BUILDING ENVELOPE SUMMARY CHART - GROSS WALL AREA

TYPE	DESCRIPTION	THERMAL TRANSMITTANCE (U FACTOR)	NYC ECC CODE MAXIMUM	SHGC	SHGC NYC ECC CODE MAXIMUM PER TABLE 502.3	AREA (SF)	LOCATION
ROOF-2*	ROOF MEMBRANE OVER INSULATION OVER CONCRETE METAL DECK	0.045 Btu / hr.ft °F	.048 Btu / hr.ft °F	N/A	N/A	13,510	FIXED BUILDING ROOF
ROOF-3*	ROOF MEMBRANE OVER INSULATION OVER CONCRETE METAL DECK	0.045 Btu / hr.ft °F	.048 Btu / hr.ft °F	N/A	N/A	6,905	LOBBY ROOF
EWS-9*	METAL PANEL RAINSCREEN ASSEMBLY	0.062 Btu / hr.ft °F	.048 Btu / hr.ft °F	N/A	N/A	3074.000000	FIXED BUILDING ROOF
EWS-11*	TWO-SIDE SUPPORTED SSG AND BUTT GLAZED THERMALLY BROKEN GLASS-FIN UNDERSLUNG SKYLIGHT ASSEMBLY	0.28 Btu / hr.ft °F	0.60 Btu / hr.ft °F	0.350000	0.400000	632.000000	LOBBY SKYLIGHT
EWS-12*	POINT SUPPORTED SSG AND BUTT GLAZED THERMALLY BROKEN STEEL AND GLASS UNDERSLUNG SKYLIGHT ASSEMBLY	0.28 Btu / hr.ft °F	0.60 Btu / hr.ft °F	0.350000	0.400000	2002.000000	GALLERY 4 SKYLIGHT
					TOTAL	**26,123**	* SEE EN-120.00 FOR U-VALUE DETAILS

EXTERIOR WALL & ROOF SYSTEMS STATEMENT:
ALL EXTERIOR WALL, ROOF AND FLOOR ASSEMBLIES SHALL BE DESIGNED AND CONSTRUCTED BELOW THE MAXIMUM U-VALUES FOR THERMAL TRANSMITTANCE LISTED IN THE EXTERIOR WALL SYSTEM AND ROOF ENERGY CODE ANALYSIS TABLE ABOVE. CERTIFICATIONS SHALL BE PROVIDED BY THE MANUFACTURER FOR EACH EXTERIOR SYSTEM CERTIFYING THAT THE APPLICABLE CALCULATED AND / OR TESTED DATA IS IN CONFORMANCE WITH THE MAXIMUM STATED U-VALUES. DESIGN BUILD SUBCONTRACTOR TO VERIFY CONFORMANCE WITH SPECIFIED PERFORMANCE CRITERIA THROUGH CERTIFIED LABORATORY TESTING.

EN1 FORMS

NYC Buildings

EN1: Energy Cost Budget Worksheet
Must be typewritten

Do Not Submit Separately. Must be incorporated in the drawing set.

1 Location Information *Required for all applications*
House No(s) 545 Street Name West 30th Street
Borough Manhattan Block 702 Lot 4 BIN 1089411 CB No. 104
Work on Floor(s) Whole Building Apt/Condo No(s) N/A

2 Applicant Information *Required for all applications*
Last Name Tuluca First Name Adrian Middle Initial
Business Name Vidaris, Inc. Business Telephone (203) 299-1411
Business Address 50 Washington Street Business Fax (203) 299-1656
City Norwalk State CT Zip 06854 Mobile Telephone
E-Mail atuluca@vidaris.com License Number 019062-1

Energy Model Inputs
NYS approved energy model software:

Envelope	Proposed Design Input	Budget (Standard Design) Input
Above-grade wall U-factor	U-0.369,0.216 (Shed); U-0.049,0.062 (Fixed bldg)	U-0.064
Below-grade wall U-factor	C-1.14	C-1.14
Roof construction U-factor	U-0.047 (Shed); U-0.045 (Fixed building)	U-0.048
Exterior floor U-factor	U-0.045	U-0.087
Slab-on-grade construction (yes/no)	yes, F-0.73	yes, F-0.73
Window-to-gross wall ratio	85% (Shed + Fixed)	40% (Shed + Fixed)
Average fenestration assembly U-factor	U-0.27, U-0.28 (Curtain wall); U-0.56 (ETFE)	U-0.50 (curtain wall)
Average fenestration assembly SHGC	0.35, 0.5 (Curtain); 0.42 (ETFE)	0.40
Fixed shading devices (yes/no)	no	no
Automated movable shading devices (yes/no)	no	no
Lighting		
Average ambient lighting power density (W/SF)	0.98 (Fixed bldg, excld. exempt ltg.); 1.13 (shed)	1.10 (Fixed + Shed, excld. exempt ltg.)
Lighting occupant sensor controls (yes/no)	yes (stair, storage, restrooms, office, elec. rms)	yes (stair, storage, restrooms, office, elec.
Automatic daylighting controls (yes/no)	no	no
Exterior lighting power (tradable surfaces) (kW)	0.522	1.739 + 1300 W allowance
Exterior lighting power (non-tradable surfaces) (kW)	0.050	0.050
Heating, Ventilating & Air Conditioning		
Refrigeration equipment type	Two 500 ton Electric centrifugal chillers (0.620 kW/ton) at 42°F	Two 442 Electric centrifugal chillers (COP=6.1; 6.4 IPV,0.576 kW/ton) at ARI conditions
Heating equipment type	Hot Water purchased from the central plant	Hot Water purchased from the central plant
Demand controlled ventilation (yes/no)	No	No
Economizer type (air or water)	Air side and water side	Air side only; no water side
Domestic hot water heating source	DHW purchased from the central plant	DHW purchased from the central plant

01/11

01/11

PROFESSIONAL STATEMENT:
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT THIS APPLICATION IS IN COMPLIANCE WITH THE NYCECC 2011.

Damian Titus
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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545 West 30th Street
New York, New York 10001

OWNER:
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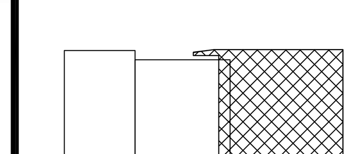
KEY PLAN



PRINTING	DATE
55 44 DOB AMENDMENT 6A	07.06.2016
55 44 DOB AMENDMENT 6	06.30.2016
44 33 DOB AMENDMENT 5	04.08.2016
DOB AMENDMENT 3	09.16.2015
DOB AMENDMENT 2	09.03.2015

NOT FOR CONSTRUCTION

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REGISTERED ARCHITECT RICARDO SCOFIDIO 008800 STATE OF NEW YORK

DRAWN BY CB **CHECK BY** Checker

PROJECT NUMBER
11017

TITLE
ENERGY CODE SUPPORTING INFORMATION - SEALING & AIR BARRIER DETAILS

B-SCAN NO.

EN-001.01

291

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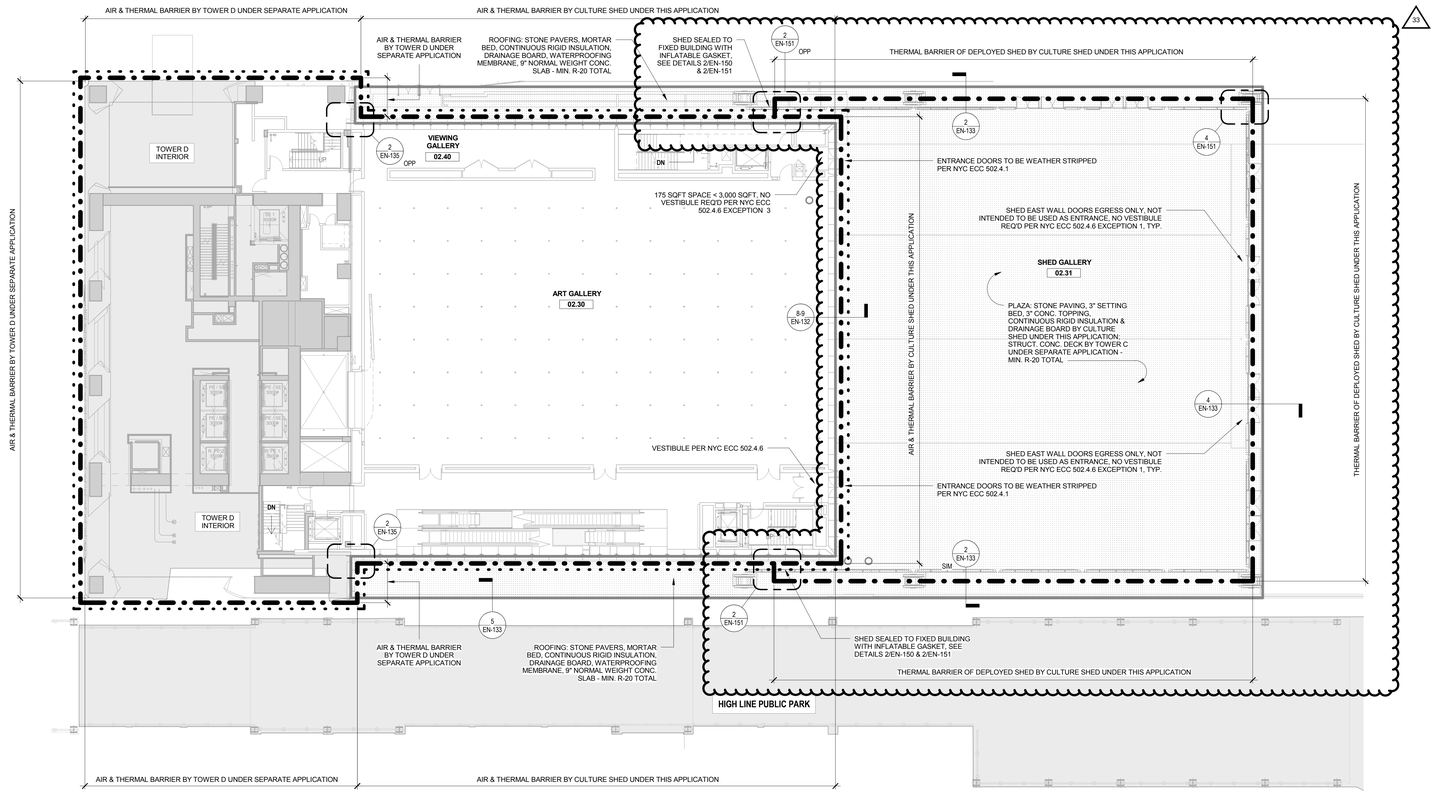
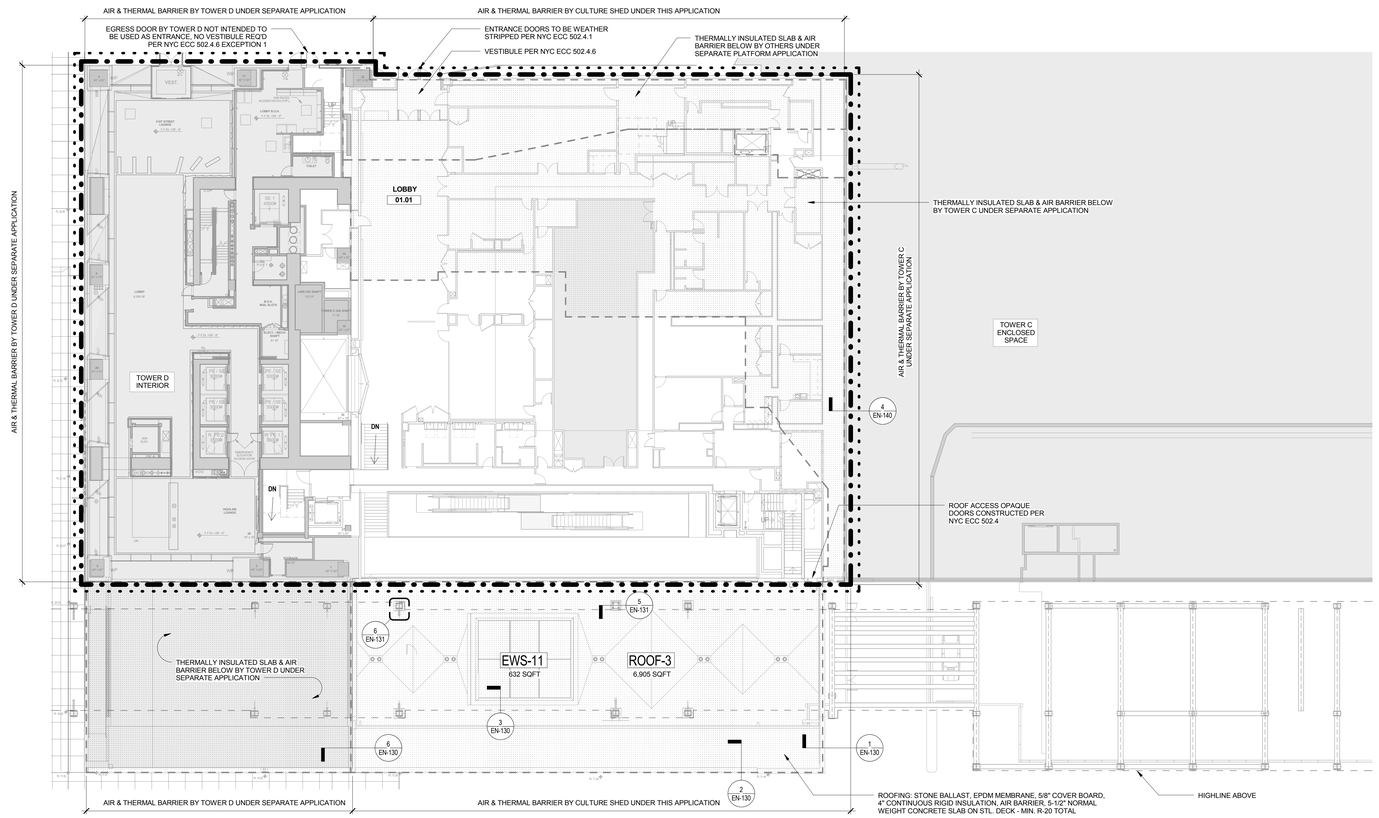


ENERGY PLAN - LEVEL 02

2
1/16" = 1'-0"



ENERGY PLAN - LEVEL 01

1
1/16" = 1'-0"

LEGEND

- CONTINUOUS AIR BARRIER PER NYC ECC 502.4.3
- THERMAL BARRIER
- THERMALLY INSULATED SLAB W/ AIR BARRIER AT UNDERSIDE OF SLAB OR MTL. DECK BELOW

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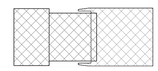
KEY PLAN



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44	33	DOB AMENDMENT 5	04.08.2016
17		DOB AMENDMENT 2	09.03.2015

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PROJECT NUMBER 11017

TITLE

ENERGY PLAN 01 & 02 LEVEL PLANS

SCALE: 1/16" = 1'-0"

0 16 32 48

DRAWING NO.

EN-101.01

B-SCAN NO.

EN-101.01

291

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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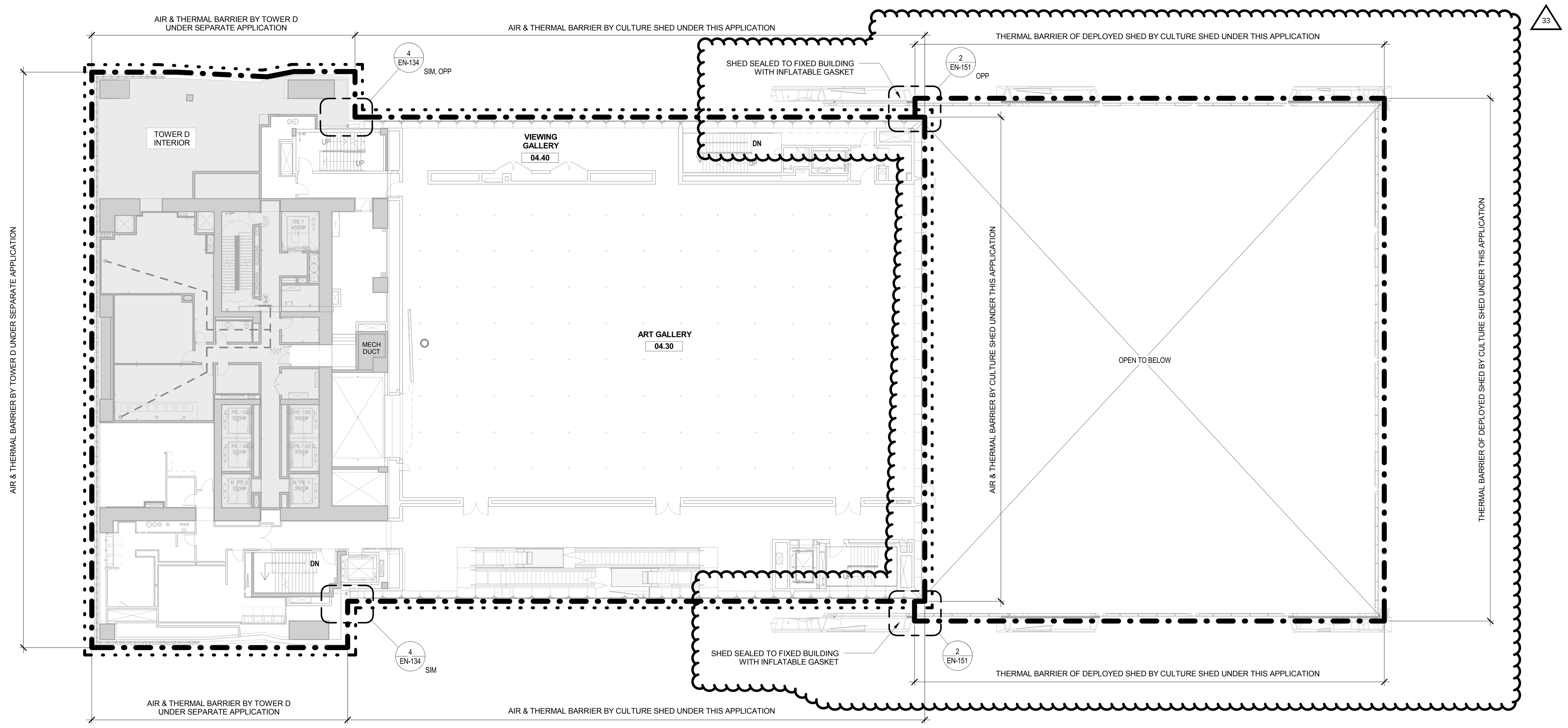
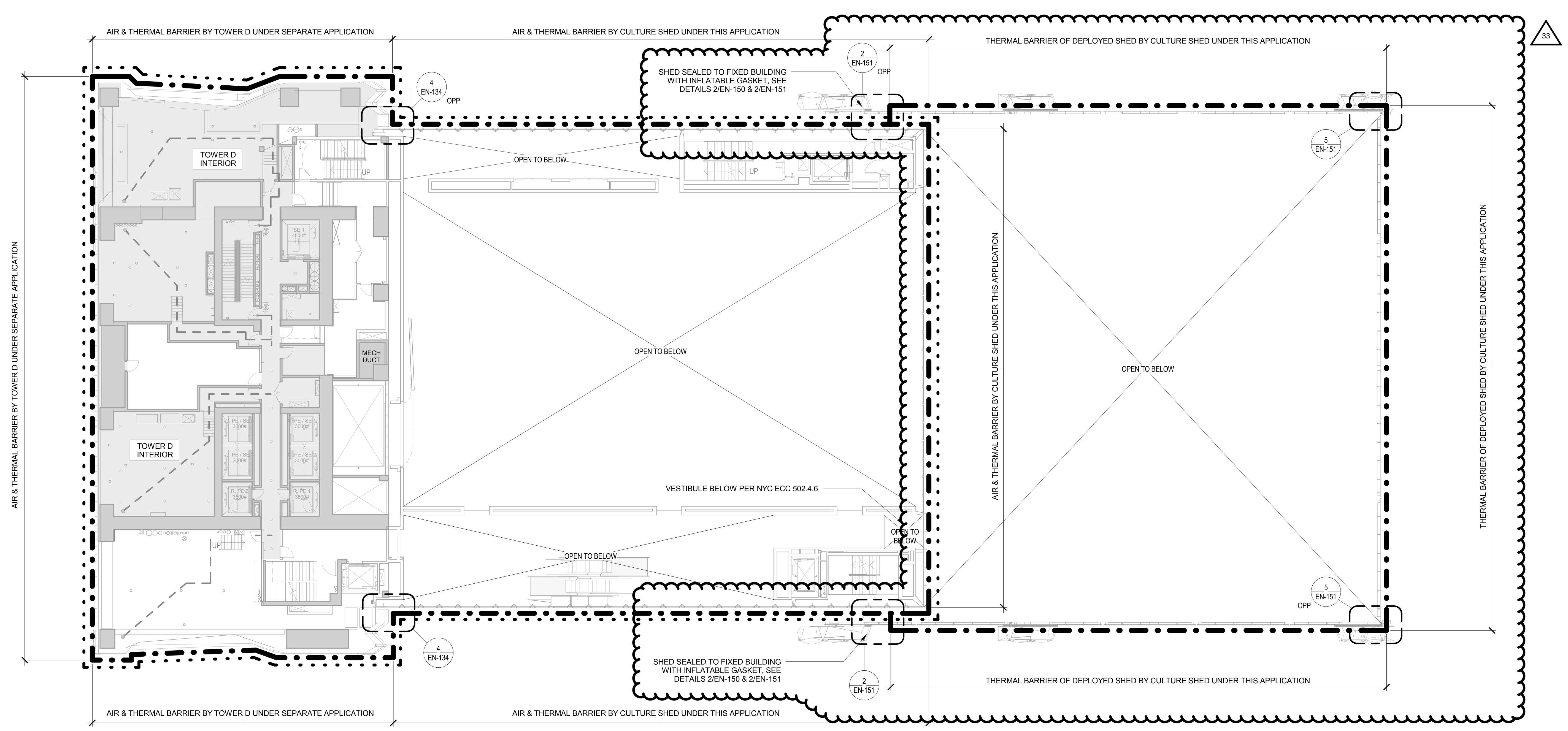
- THERMAL BARRIER
- THERMALLY INSULATED SLAB W/ AIR BARRIER AT UNDERSIDE OF SLAB OR MTL. DECK BELOW



ENERGY PLAN - LEVEL 04 2

NOTE: AIR & THERMAL BARRIER LOCATIONS ARE IDENTICAL ON LEVELS 04, 06 & 08 1/16" = 1'-0"



ENERGY PLAN - LEVEL 03 1

NOTE: AIR & THERMAL BARRIER LOCATIONS ARE IDENTICAL ON LEVELS 03, 05 & 07 1/16" = 1'-0"

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44	33	DOB AMENDMENT 5	04.08.2016
17		DOB AMENDMENT 2	09.03.2015

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PROJECT NUMBER: 11017

TITLE: ENERGY PLAN 03 & 04 LEVEL PLANS

SCALE: 1/16" = 1'-0"

DRAWING NO. EN-102.01

B-SCAN NO. 291

EN-102.01

Damian Titus — Buildings APPROVED Under Directive 2 of 1975 AMENDED APPLICATION Date: 07/15/2016 NYC Development Hub

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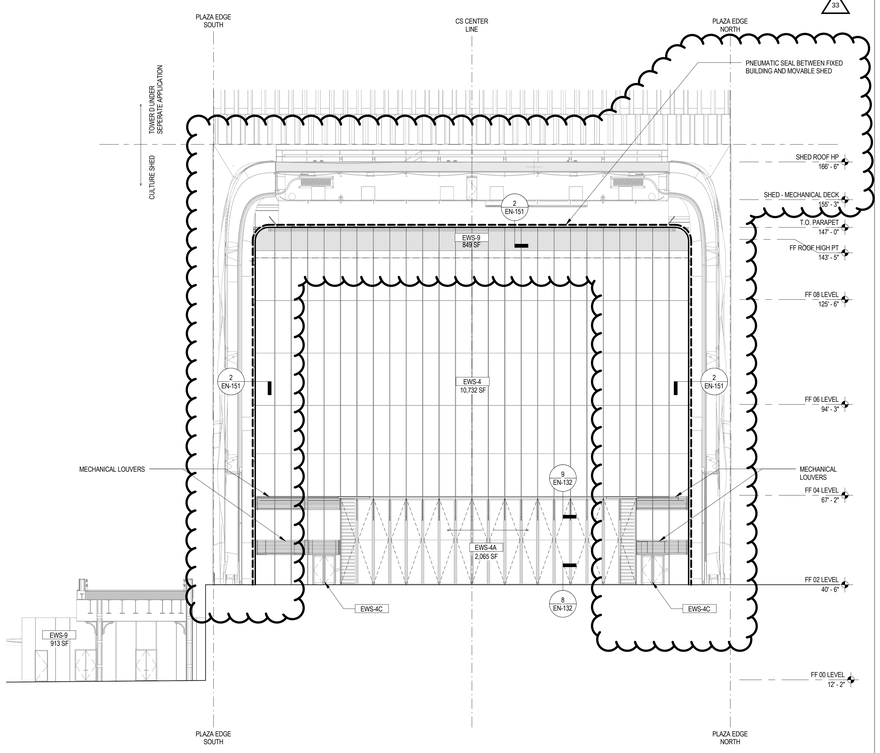
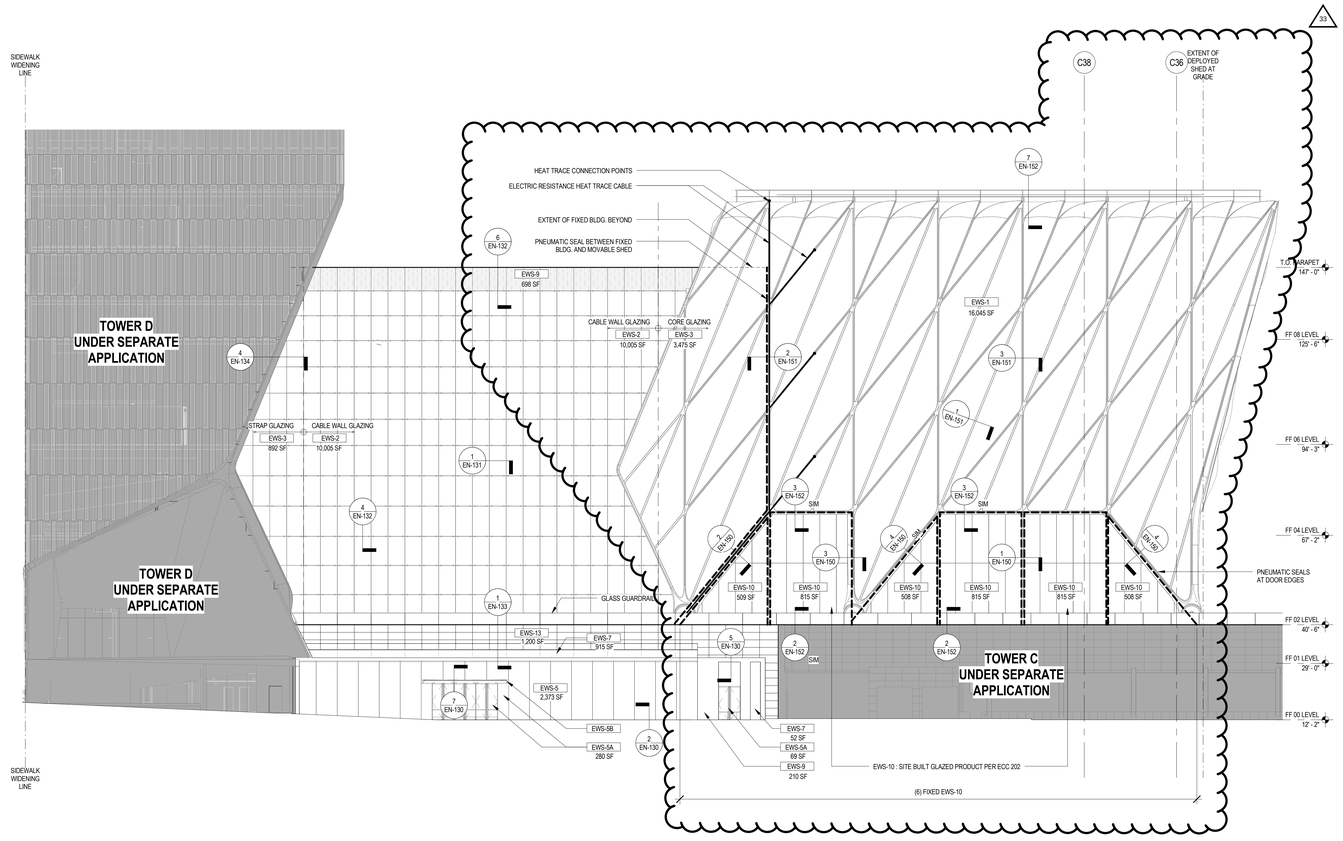


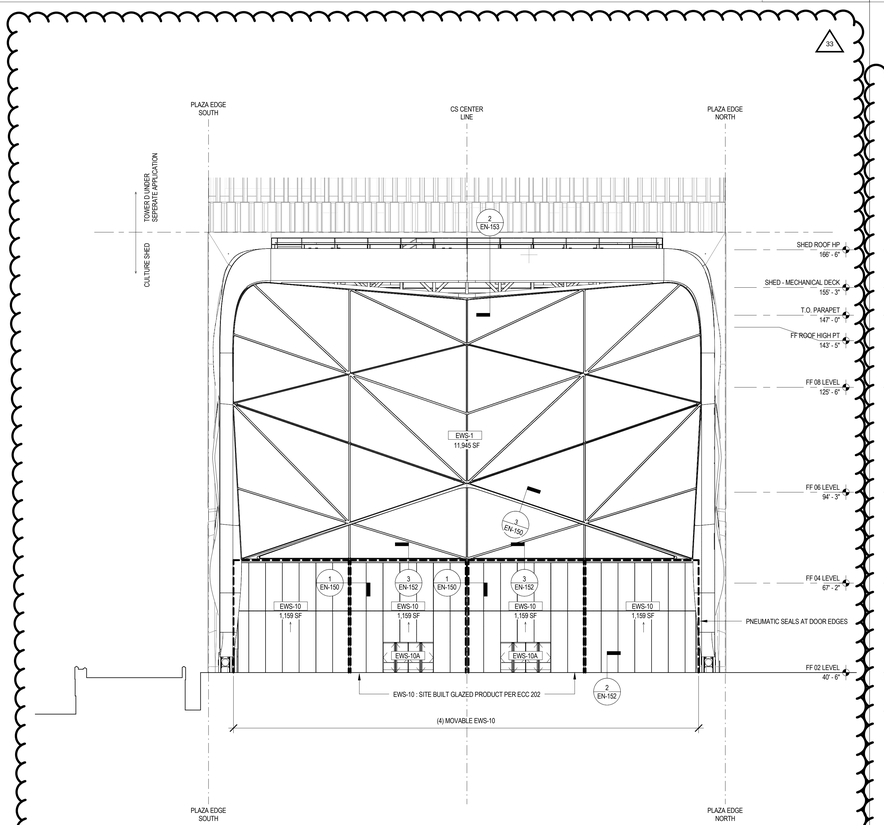
ENERGY BUILDING ELEVATION - FIXED BLDG - EAST

1
1/16" = 1'-0"



BUILDING ELEVATION - FIXED BLDG - SOUTH

2
1/16" = 1'-0"



ENERGY BUILDING ELEVATION - SHED - EAST

4
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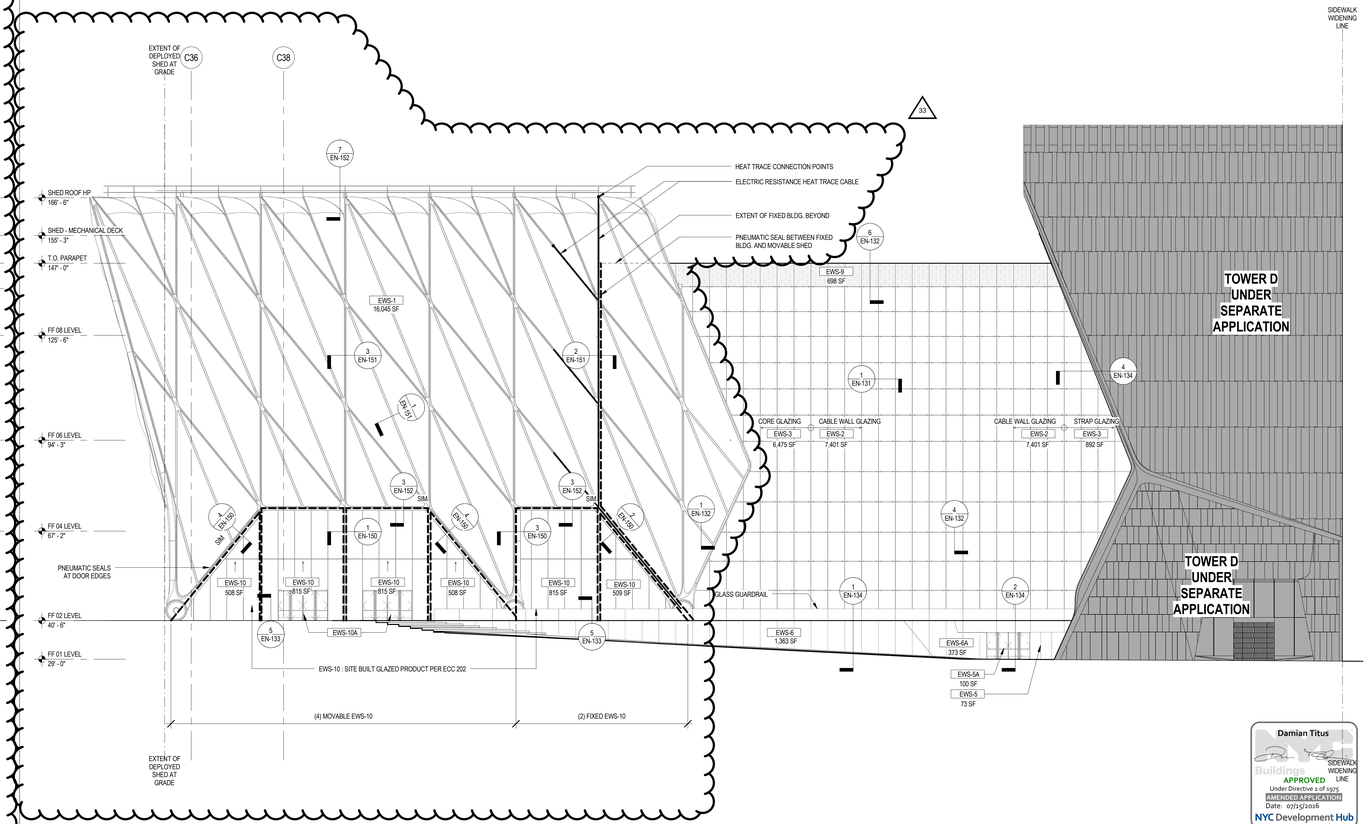

ENERGY BUILDING ELEVATION - FIXED BLDG - NORTH

3
1/16" = 1'-0"

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AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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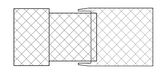
KEY PLAN



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PROJECT NUMBER 11017

TITLE

ENERGY CODE SUPPORTING INFORMATION BUILDING ELEVATIONS

SCALE: 1/16" = 1'-0"

0 8 16 24

DRAWING NO.
EN-110.01

B-SCAN NO.

EN-110.01

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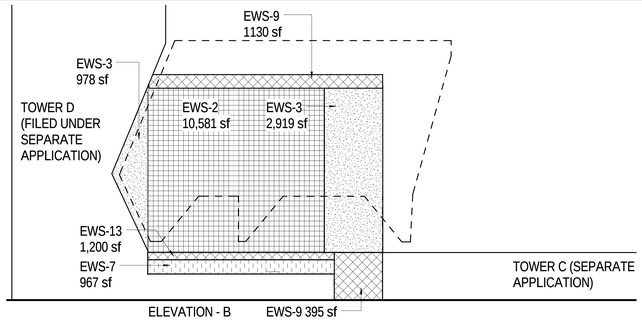
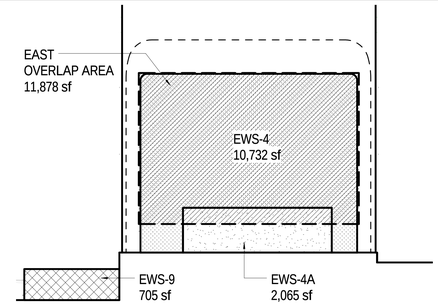
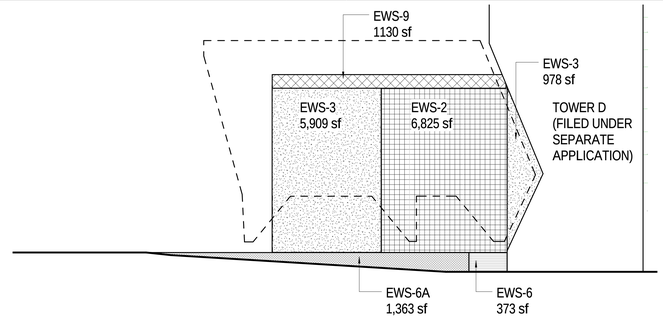


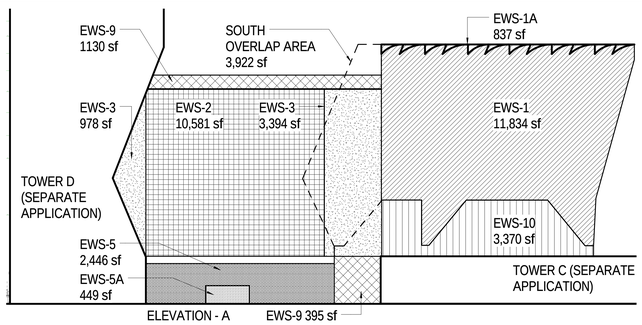
ENERGY BUILDING DIAGRAM SOUTH - NESTED 8 — 1/32" = 1'-0"



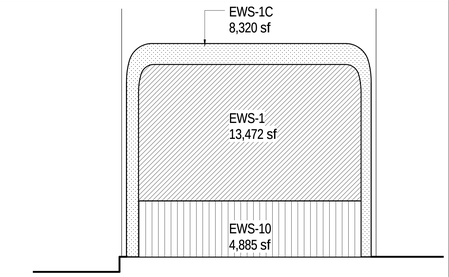
ENERGY BUILDING DIAGRAM EAST 5 — 1/32" = 1'-0"



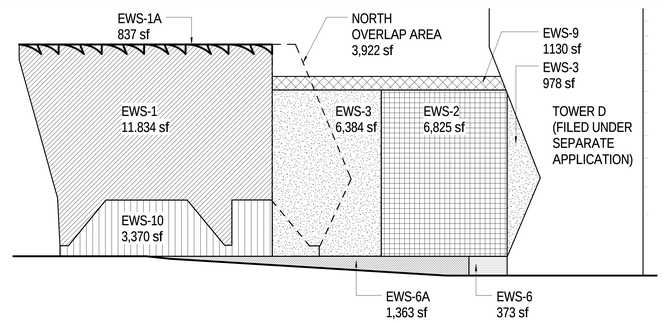
ENERGY BUILDING DIAGRAM NORTH-NESTED 3 — 1/32" = 1'-0"



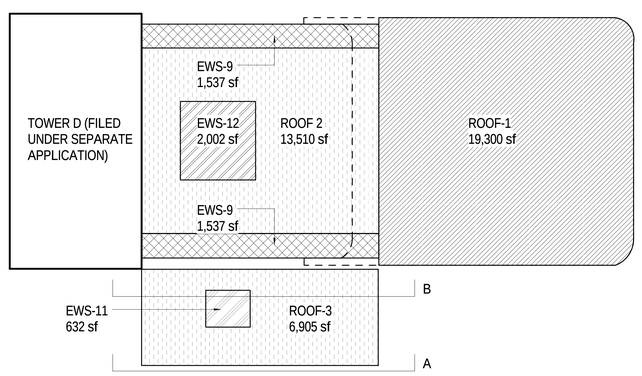
ENERGY BUILDING DIAGRAM SOUTH 7 — 1/32" = 1'-0"



ENERGY BUILDING DIAGRAM EAST SHED 4 — 1/32" = 1'-0"



ENERGY BUILDING DIAGRAM NORTH 2 — 1/32" = 1'-0"



ENERGY BUILDING DIAGRAM ROOF 6 — 1/32" = 1'-0"

EXTERIOR WALL SYSTEM TYPES SUMMARY

MOVEABLE SHED (WALL)
EWS-1 37,141 SF
EWS-1A 1,675 SF
EWS-1C 8,320 SF
EWS-10 11,625 SF
MOVEABLE SHED (ROOF)
ROOF-1 19,300 SF

FIXED BUILDING (WALL)
EWS-2 17,406 SF
EWS-3 11,734 SF
EWS-4 10,732 SF
EWS-4A 2,065 SF
EWS-5 2,446 SF
EWS-5A 449 SF
EWS-6 1,363 SF
EWS-6A 373 SF
EWS-7 967 SF
EWS-9 3,368 SF
EWS-13 1200 SF
FIXED BUILDING (ROOF)
ROOF-2 13,510 SF
ROOF-3 6,905 SF
EWS-9 3,074 SF
EWS-11 632 SF
EWS-12 2,002 SF

EXTERIOR WALL SYSTEM OVERLAP SUMMARY

WALL + GLAZING

EAST OVERLAP = 11,878 SF
NORTH OVERLAP = 3,922 SF
SOUTH OVERLAP = 3,922 SF

TOTAL OVERLAP = 19,722 SF

EXTERIOR ENVELOPE TOTALS 1 — 12" = 1'-0"

Damian Titus
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KEY PLAN

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55	44	DOB AMENDMENT 6A	07.06.2016
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DRAWN BY Author
CHECKED BY Checker

PROJECT NUMBER 11017

TITLE
ENERGY CODE SUPPORTING INFORMATION - WALL SYSTEMS DIAGRAMS

44

DRAWING NO.
EN-111.00

B-SCAN NO.
EN-111.00

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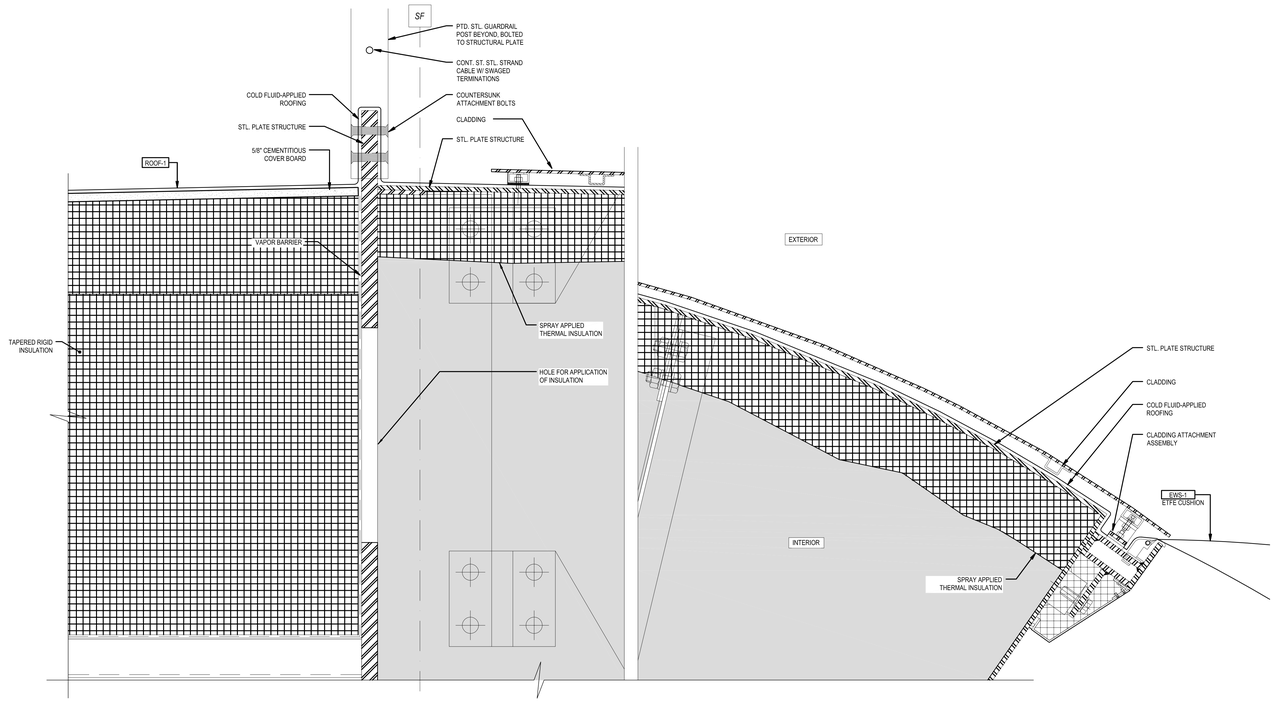
DEPT OF BLDGS 421302397 Job Number
E365122267D Scan Code

ROOF-1	R VALUE	U VALUE	2011 NYC ECC
EXTERIOR AIR FILM	0.170		INSULATION
COLD FLUID WATERPROOFING	0.060		ENTIRELY
1/2" COVERBAORD	0.620		ABOVE DECK
4" EXTRUDED POLYSTYRENE R-5.0/INCH	20.000		
METAL DECK	0.000		
VAPOR BARRIER	0.060		
INTERIOR AIR FILM	0.610		
TOTAL R VALUE	21.520		
TOTAL U VALUE		0.047	0.048



ROOF ASSEMBLY AT SHED EDGE

4

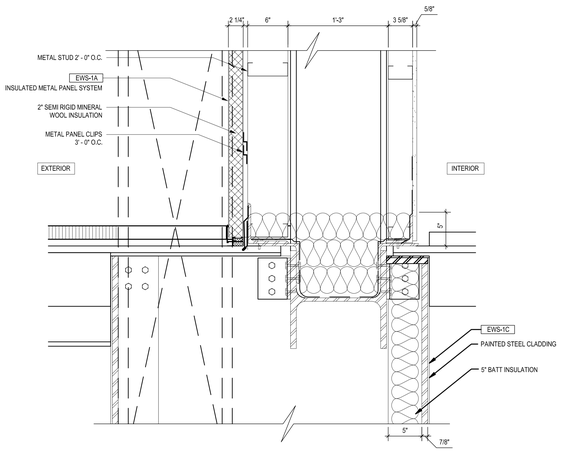
1-1/2" = 1'-0"

EWS-1A	R VALUE	U VALUE	2011 NYC ECC
EXTERIOR AIR FILM	0.170		STL-FRAMED
2" INSULATED METAL PANEL WITH SEMI-RIGID INSULATION R-4.2/INCH	1.860*		WALL
INTERIOR AIR FILM	0.680		
TOTAL R VALUE	2.710		
TOTAL U VALUE		0.369**	0.064

*DERATED FROM R-8.4 DUE TO THERMAL BRIDGING
**BASED ON THERM ANALYSIS

EWS-1C	R VALUE	U VALUE	2011 NYC ECC
EXTERIOR AIR FILM	0.170		STL-FRAMED
7/8" STEEL CLADDING	0.000		WALL
AIR SPACE	0.500		
R-19 BATT INSULATION BTWN METAL STUDS AT 24" O.C.	3.280*		
INTERIOR AIR FILM	0.680		
TOTAL R VALUE	4.630		
TOTAL U VALUE		0.216**	0.064

*DERATED FROM R-19 TO R-8.60 DUE TO METAL STUDS, FURTHER DERATED DUE TO THERMAL BRIDGING
**BASED ON THERM ANALYSIS

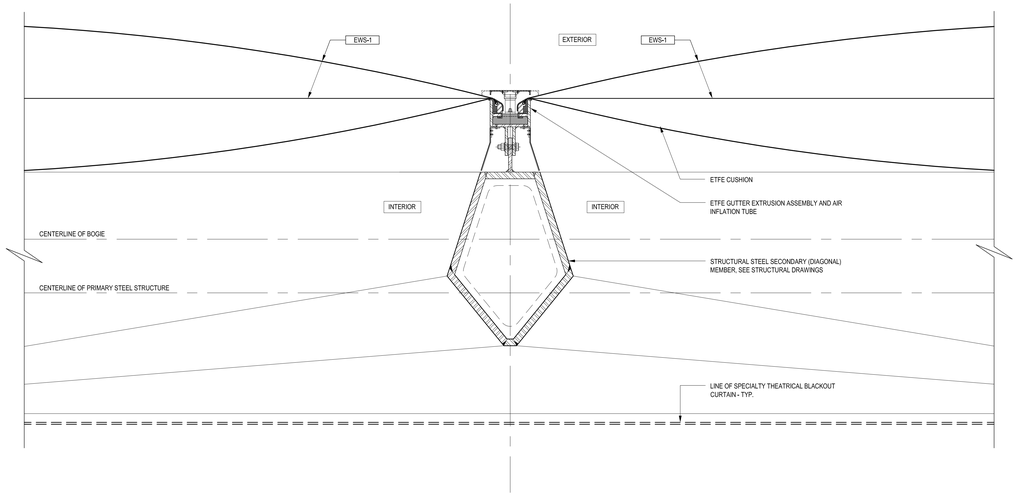


WALL ASSEMBLY AT MECHANICAL DECK

2

3" = 1'-0"

EWS-1	SHGC	U VALUE	2011 NYC ECC
ETFE PILLOWS, SHED			
SOLAR HEAT GAIN COEFFICIENT (SHGC)	0.420		0.400
U VALUE		0.560	0.500

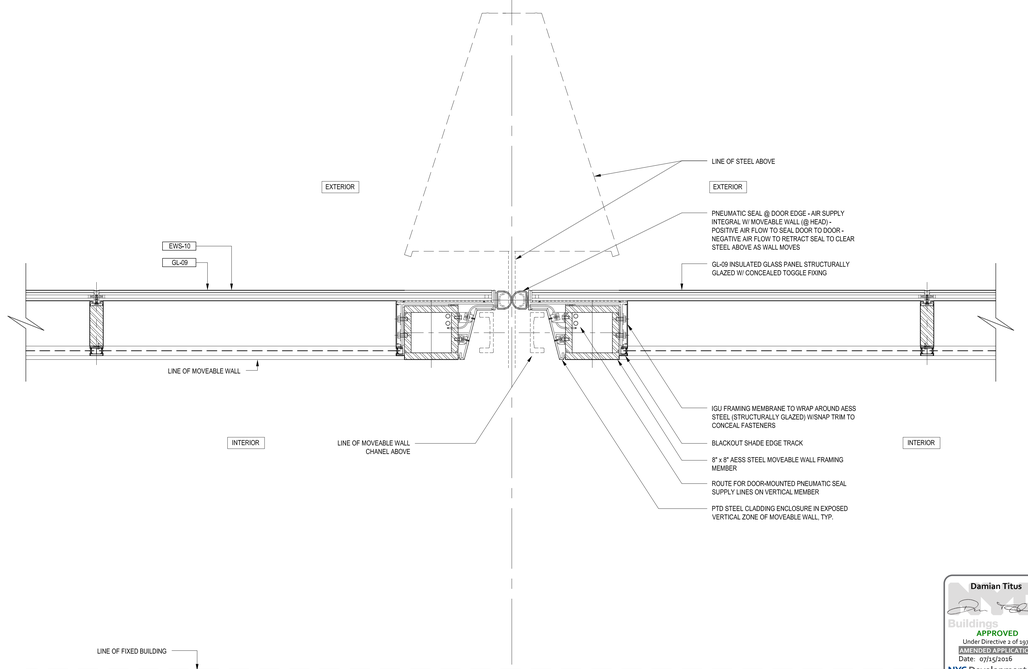


ETFE CLADDING SYSTEM AT SHED

3

1-1/2" = 1'-0"

EWS-10	SHGC	U VALUE	2011 NYC ECC
DOUBLE-PANE, LOW-E, STRUCTURALLY-GLAZED, ARGON-FILLED			
SOLAR HEAT GAIN COEFFICIENT (SHGC)	0.350		0.400
U VALUE		0.270	0.500



GLAZING ASSEMBLY AT SHED GUILLOTINE DOOR

1

1-1/2" = 1'-0"

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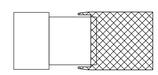

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DOB AMENDMENT 2	09.03.2015

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ENERGY CODE SUPPORTING INFORMATION - U-VALUE DETAILS

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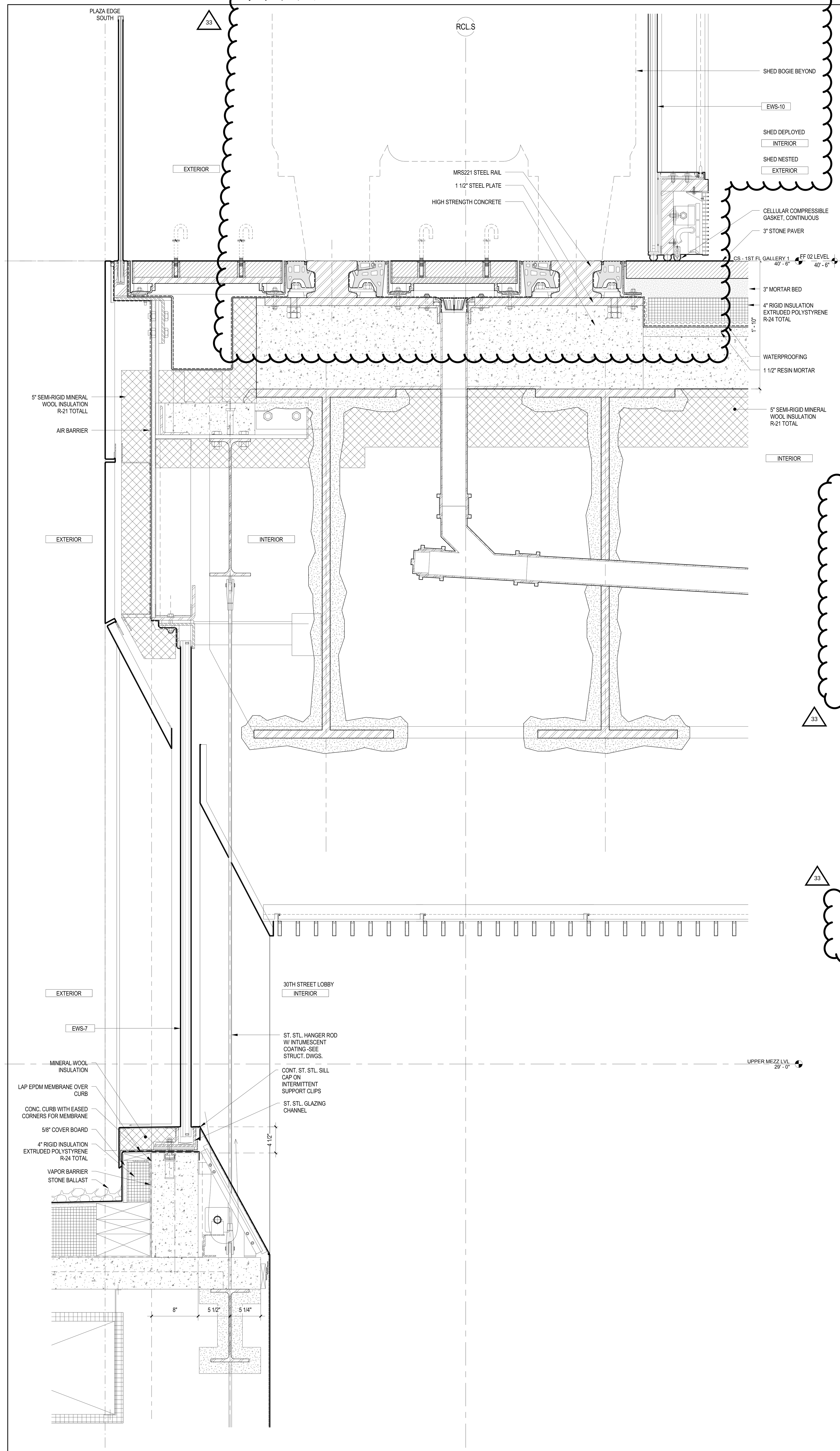
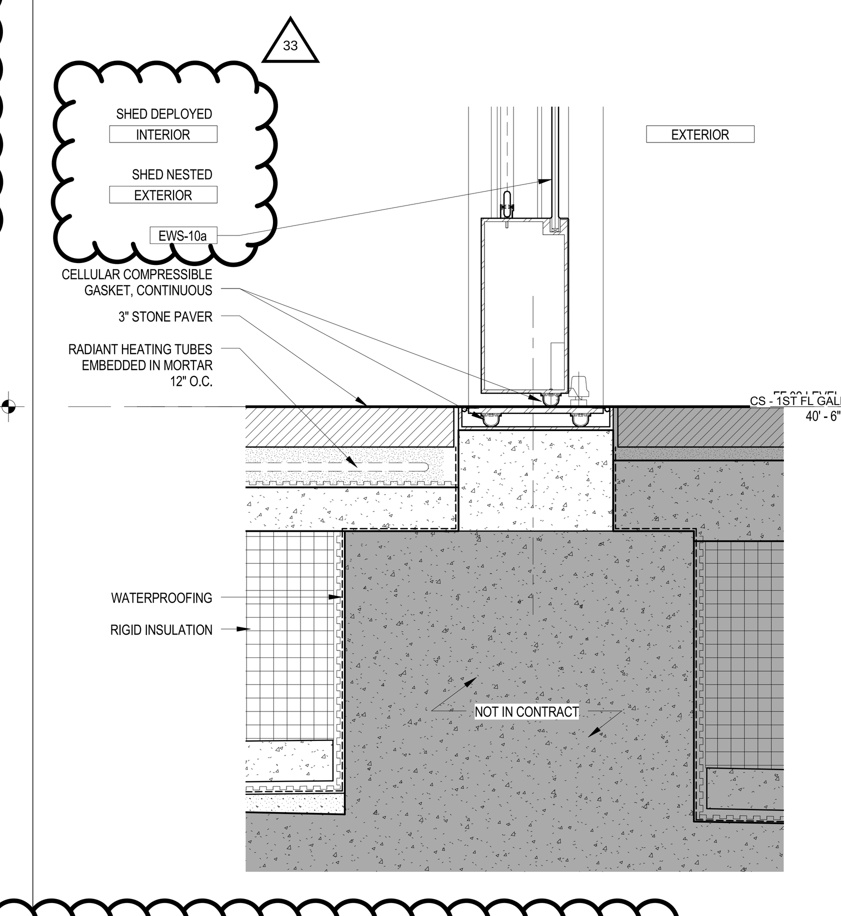
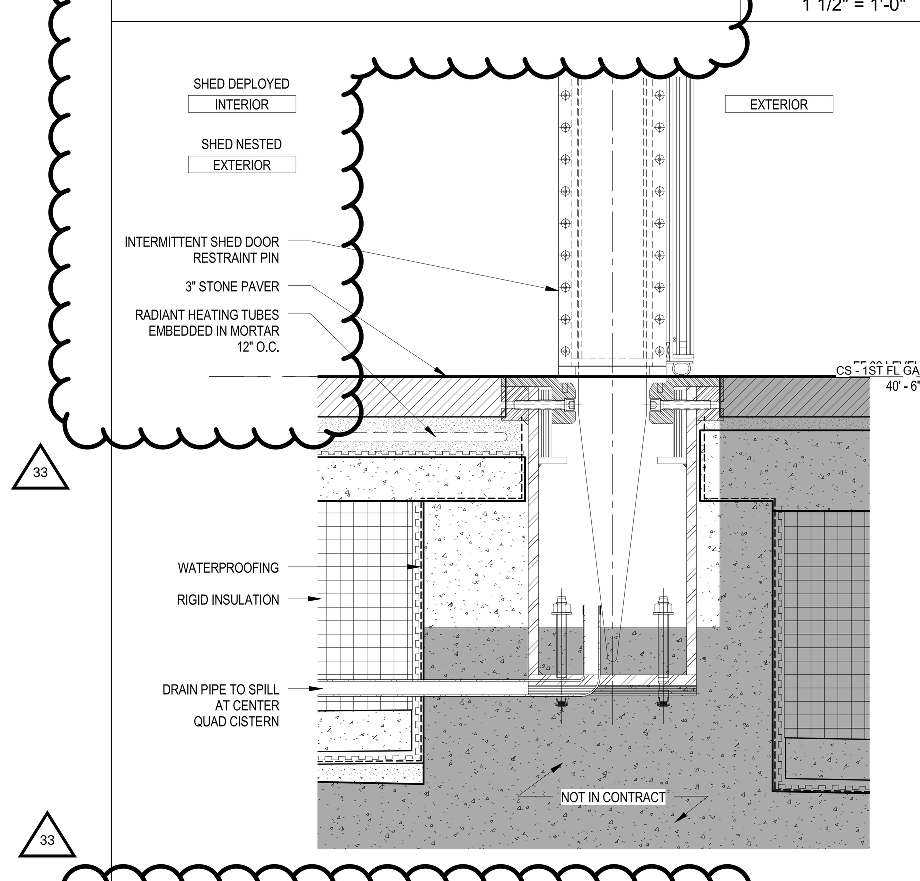


NOTE: DETAILS PROVIDED FOR CRITICAL AREAS FOR INSPECTION PER RCNY 5000 OF AIR SEALING (IIA6) & INSULATION PLACEMENT (IIA2).

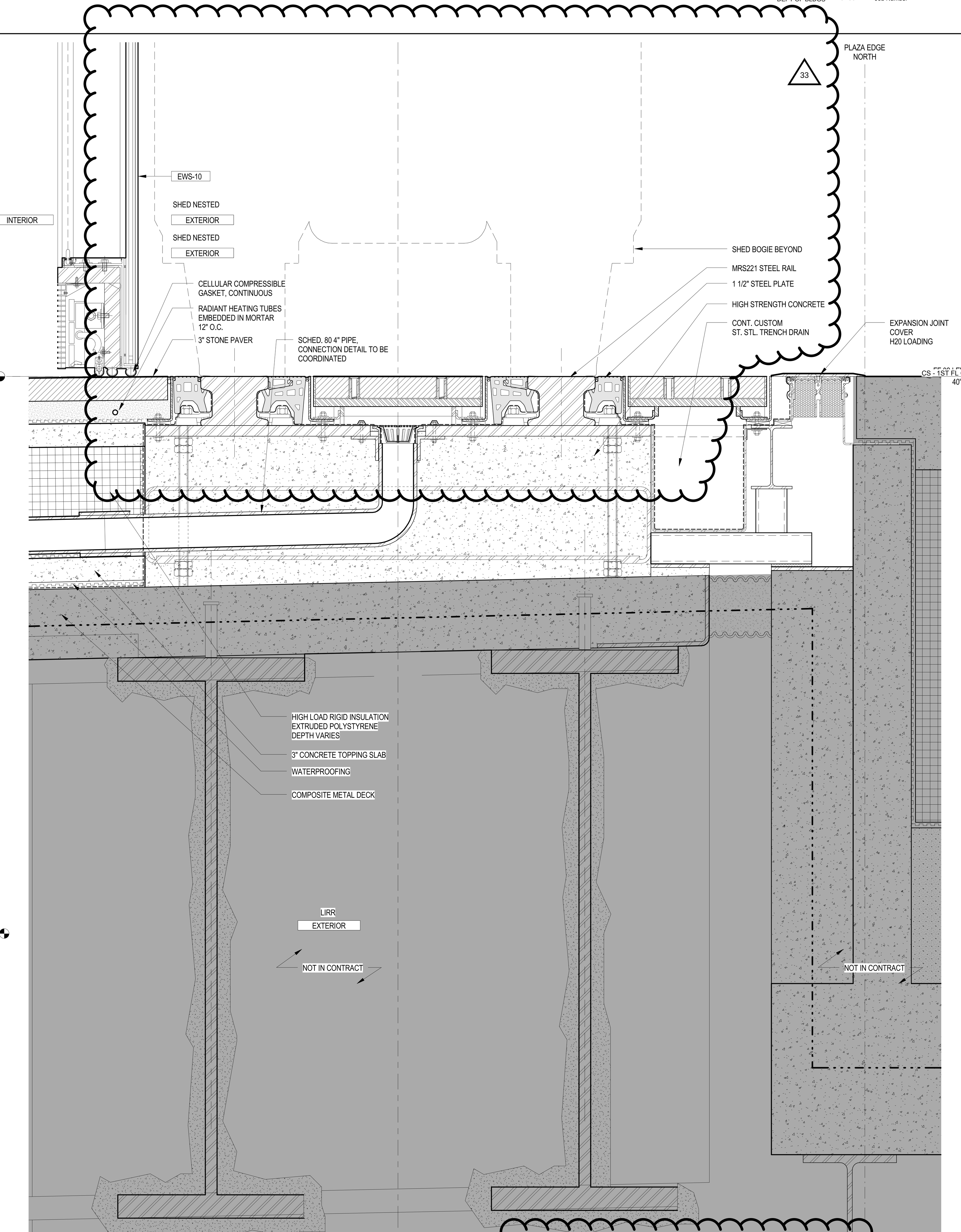
PLAZA EDGE SOUTH@ FIXED BUILDING AND LOBBY CLERESTORY EWS-7 5
1 1/2" = 1'-0"



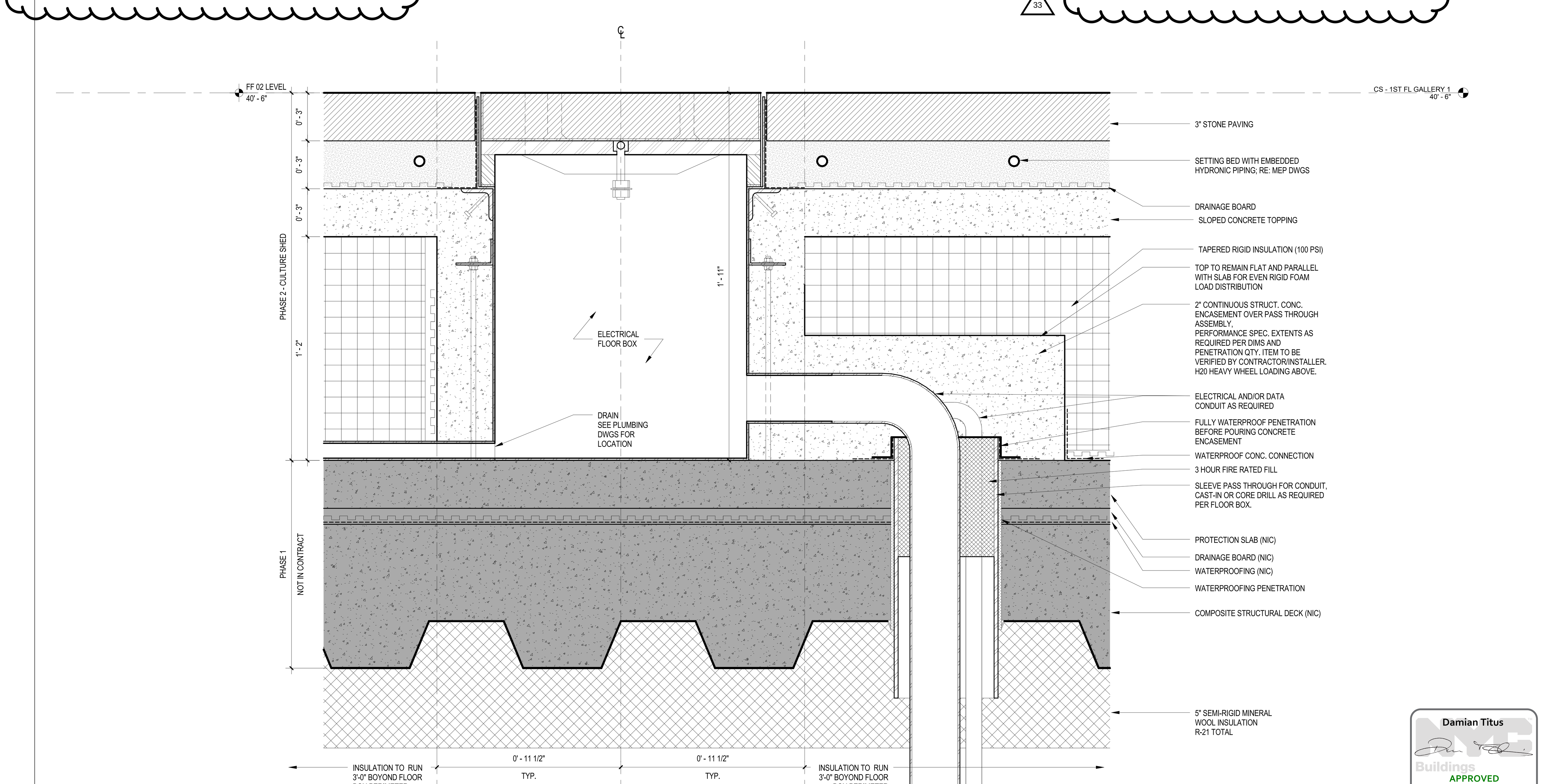
PLAZA SHED DOOR SILL 4
1 1/2" = 1'-0"



PLAZA EAST SHED DOOR RETAINER PIN 3
1 1/2" = 1'-0"



PLAZA NORTH EDGE - DEPLOYED SHED 2
1 1/2" = 1'-0"



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PLAZA - FLOOR BOX 1
3" = 1'-0"

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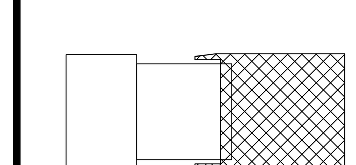

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11017

TITLE
ENERGY CODE SUPPORTING INFORMATION PLAZA DETAILS

DRAWING NO.
EN-133.01

B-SCAN NO.
EN-133.01

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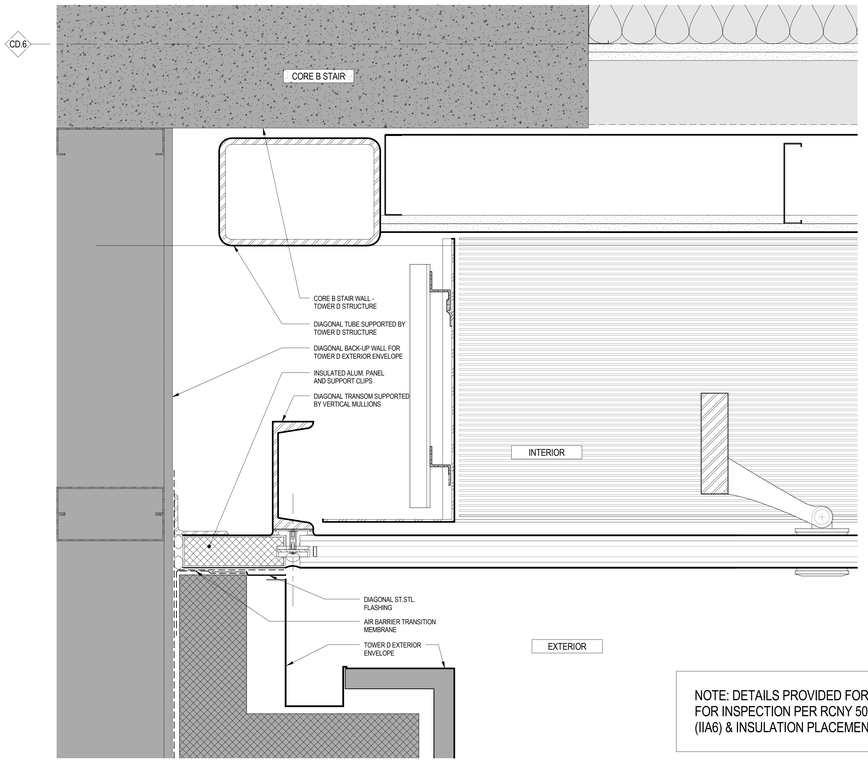
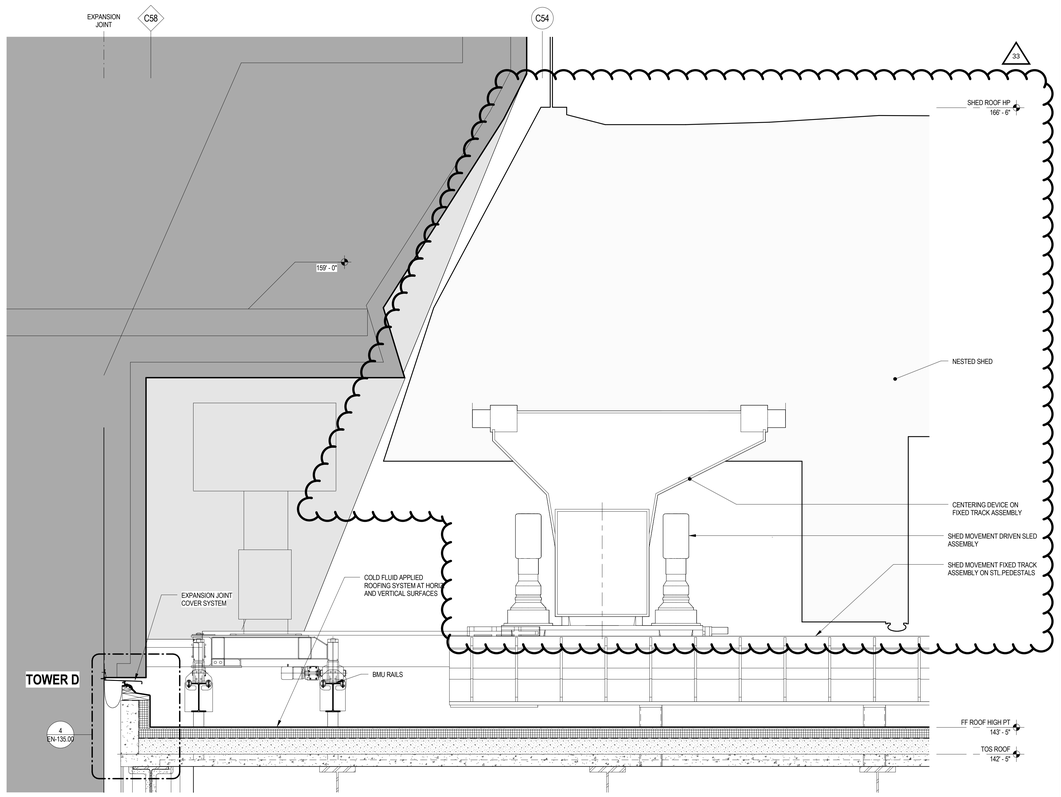
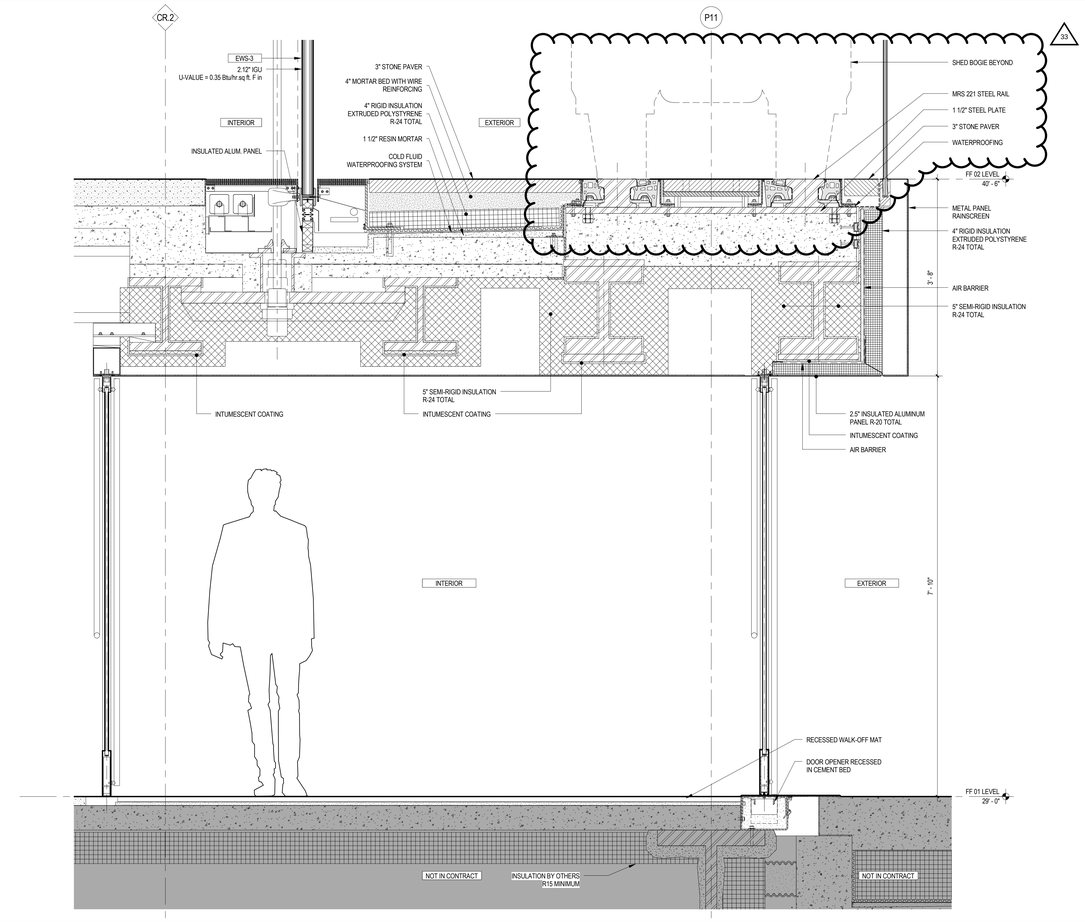


NOTE: DETAILS PROVIDED FOR CRITICAL AREAS FOR INSPECTION PER RCNY 5000 OF AIR SEALING (IIA6) & INSULATION PLACEMENT (IIA2).

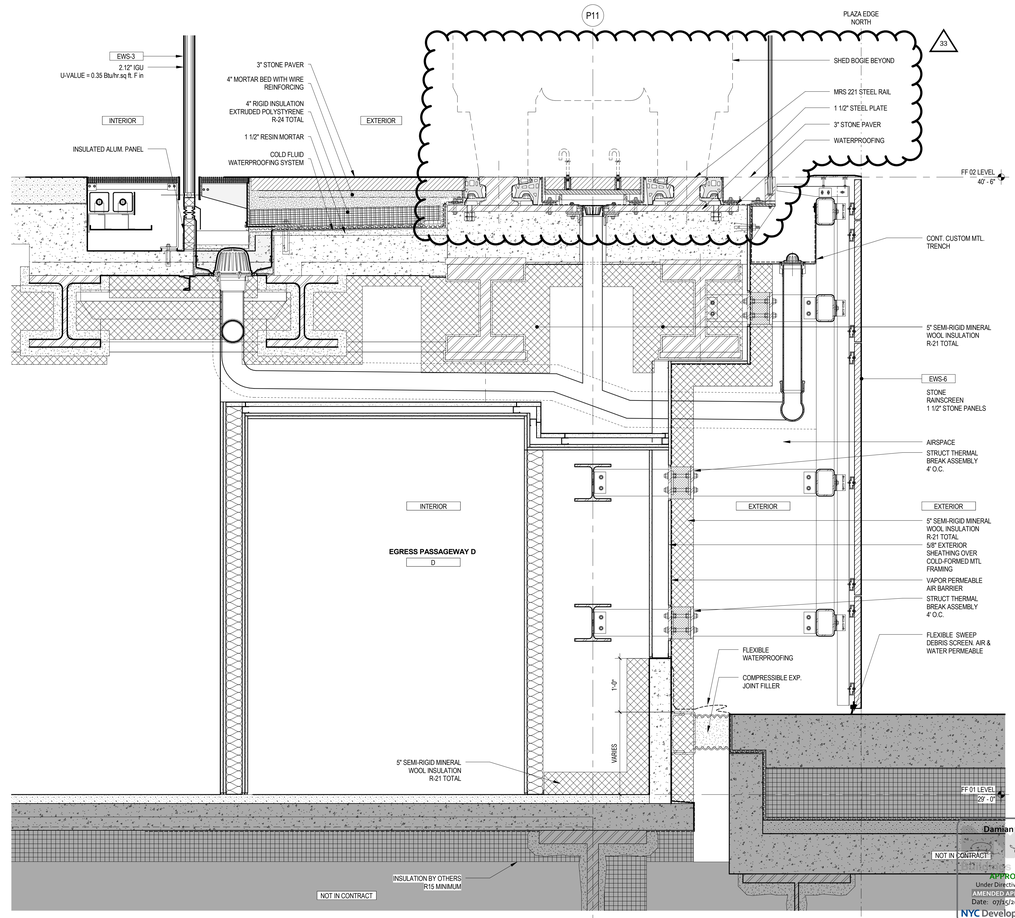
PLAN DETAIL AT CORE B / TOWER D | 4 | 3" = 1'-0"



SECTION DETAIL - EXTERIOR - ROOF FB - SHED DRIVE - VIEWING NORTH | 3 | 1/2" = 1'-0"



Copy of SECTION DETAIL - EXTERIOR - N/S - EWS-6 - VESTIBULE | 2 | 1" = 1'-0"



EWS-3, RAIL, EWS-6 | 1 | 1" = 1'-0"

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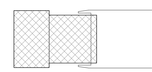
KEY PLAN



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B-SCAN NO.
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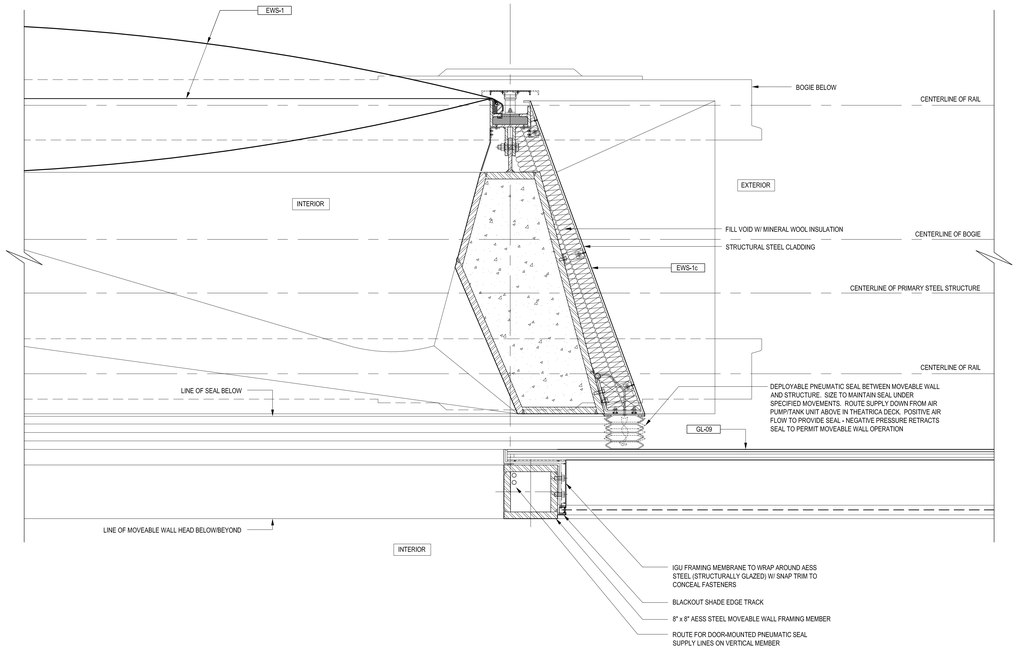
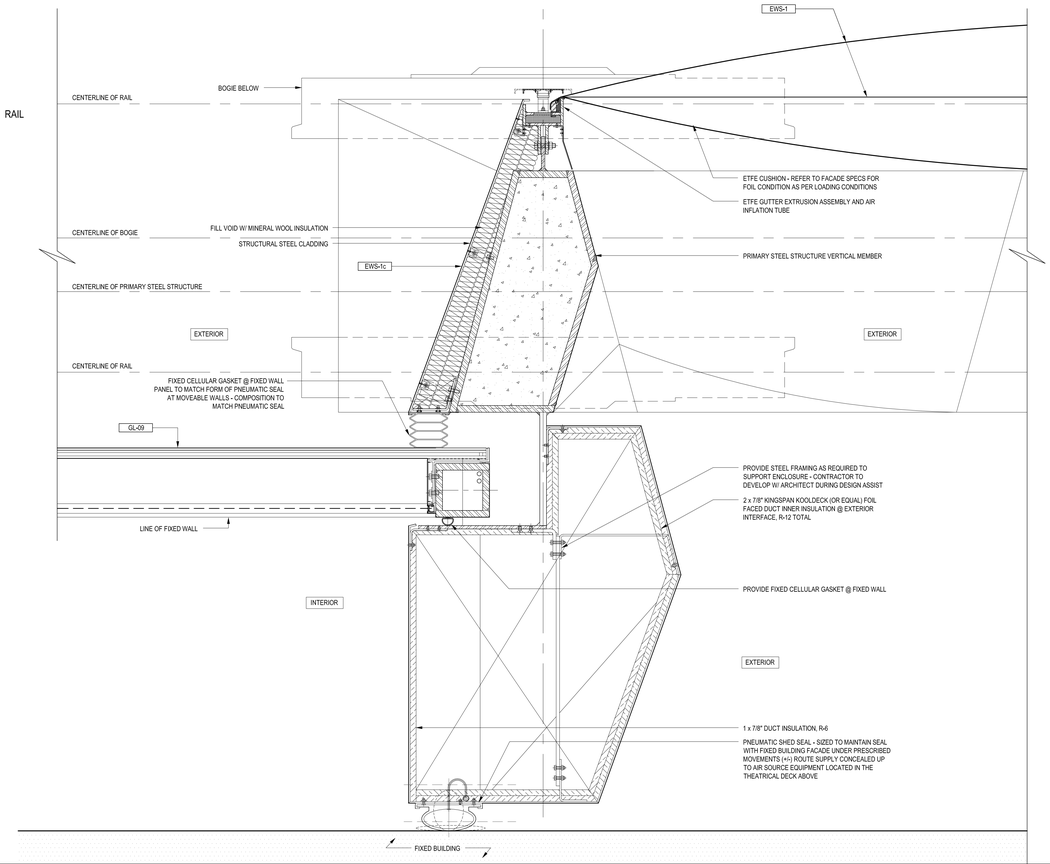


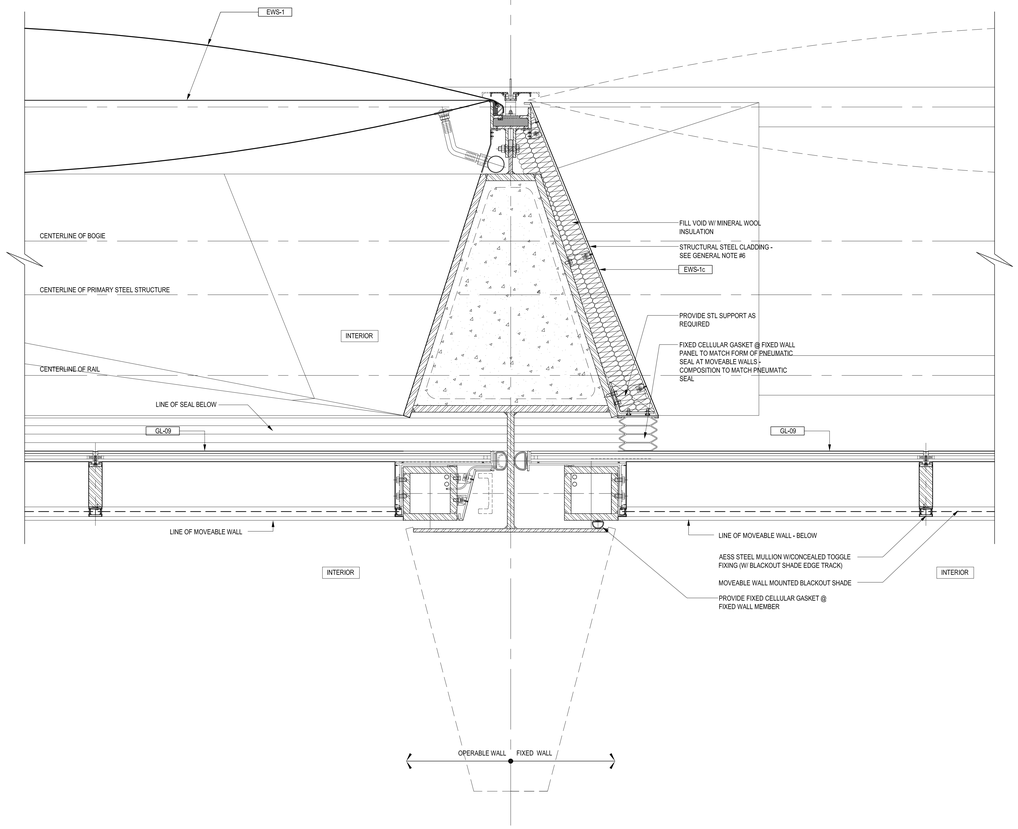
SECTION DETAIL AT DIAGONAL WALL MEMBER AT DOOR VIEW TAKEN NORMAL TO DIAGONAL CENTERLINE

4
1-1/2" = 1'-0"



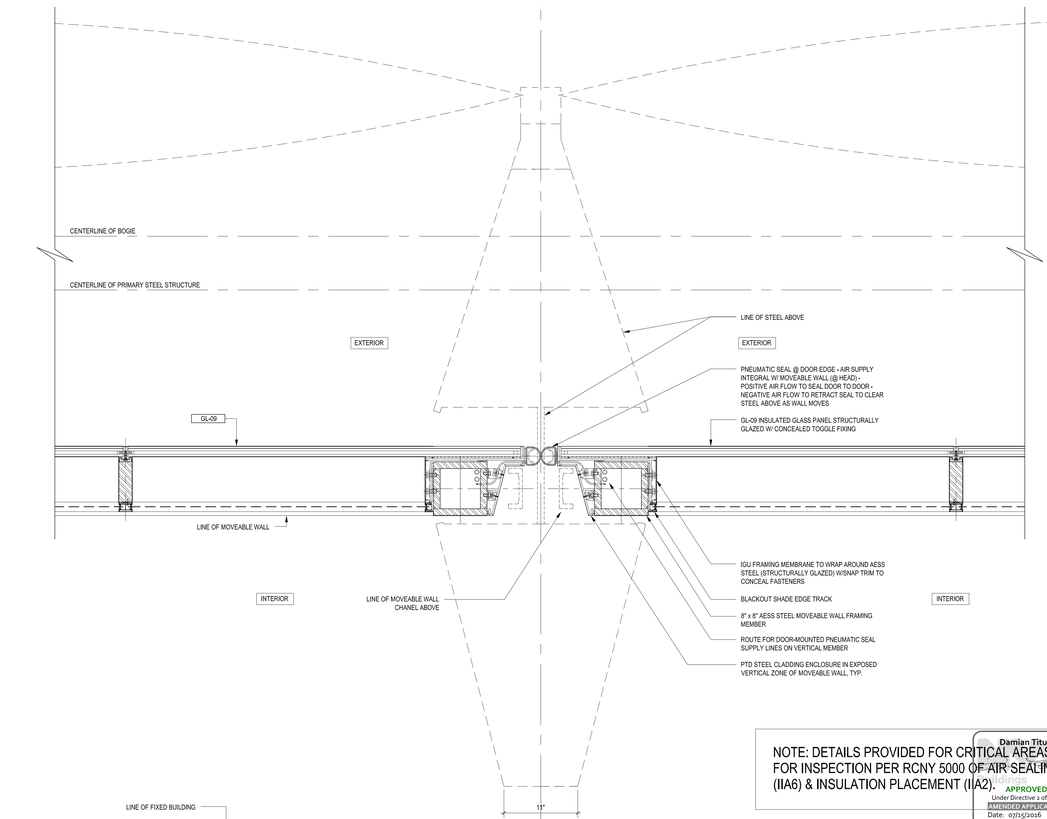
SECTION DETAIL AT DIAGONAL SHED SEAL / RETURN AIR ENCLOSURE VIEW TAKEN NORMAL TO DIAGONAL CENTERLINE

2
3" = 1'-0"



PLAN DETAIL AT VERTICAL VIEW TAKEN AT MOVABLE WALL (0' - 30' A.F.F.) BETWEEN OPERABLE AND FIXED WALLS

3
1-1/2" = 1'-0"



NOTE: DETAILS PROVIDED FOR CRITICAL AREAS FOR INSPECTION PER RCNY 5000 OF AIR SEALING (IIA6) & INSTRUCTION PLACEMENT (IIA2).

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PLAN DETAIL AT VERTICAL VIEW TAKEN AT MOVABLE WALL TRAVEL ZONE (0' - 30' A.F.F.) WITH WALL DOWN

1
1-1/2" = 1'-0"

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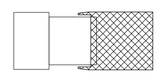

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REGISTERED ARCHITECT RICARDO SCOFIDIO STATE OF NEW YORK 026800

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PROJECT NUMBER
11017

TITLE
ENERGY CODE SUPPORTING INFORMATION - SEALING & AIR BARRIER DETAILS

DRAWING NO.
EN-150.00

B-SCAN NO.

EN-150.00

291

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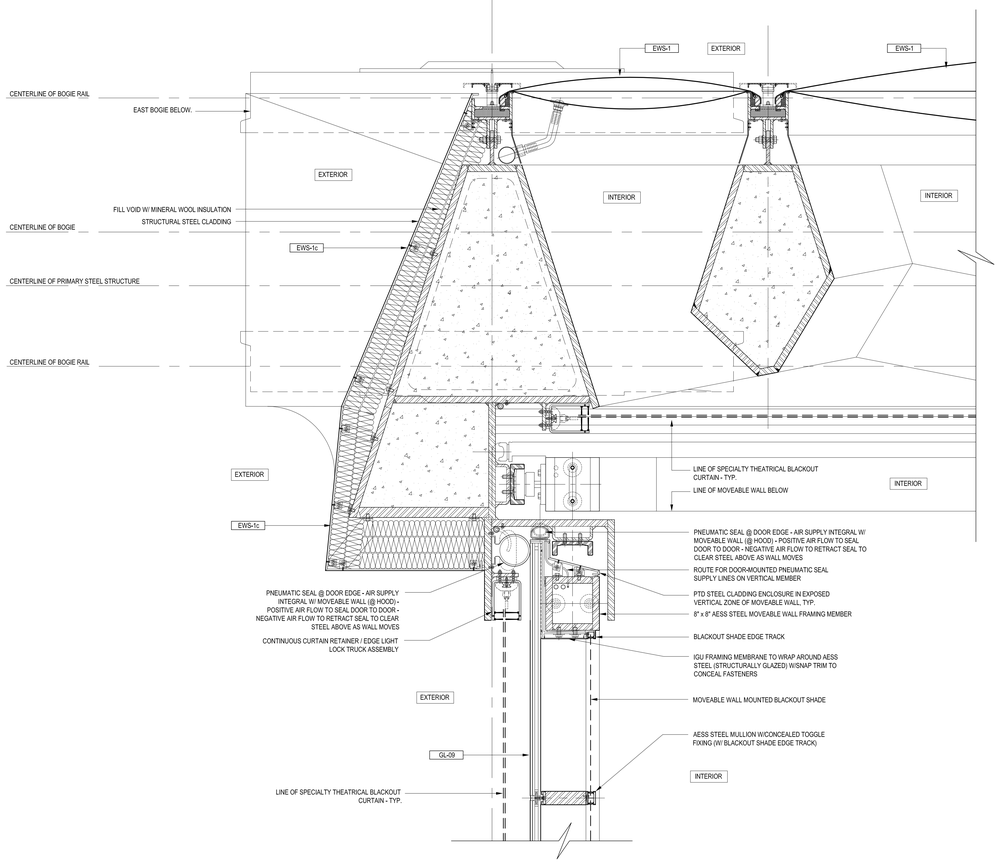
DEPT OF BLDGS 421302297 Job Number
E5234871074 Scan Code

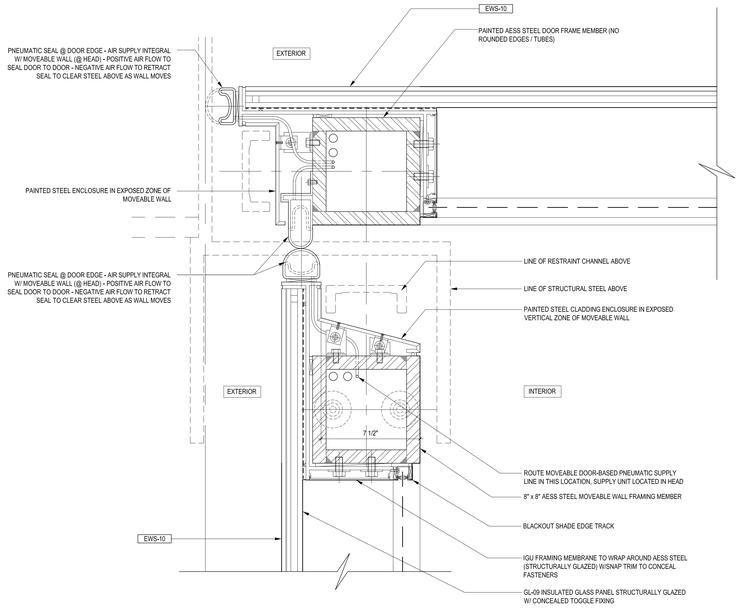
NOTE: DETAILS PROVIDED FOR CRITICAL AREAS FOR INSPECTION PER RCNY 5000 OF AIR SEALING (IIA6) & INSULATION PLACEMENT (IIA2).



PLAN DETAIL AT NORTHEAST CORNER VIEW TAKEN AT 15' A.F.F.

5

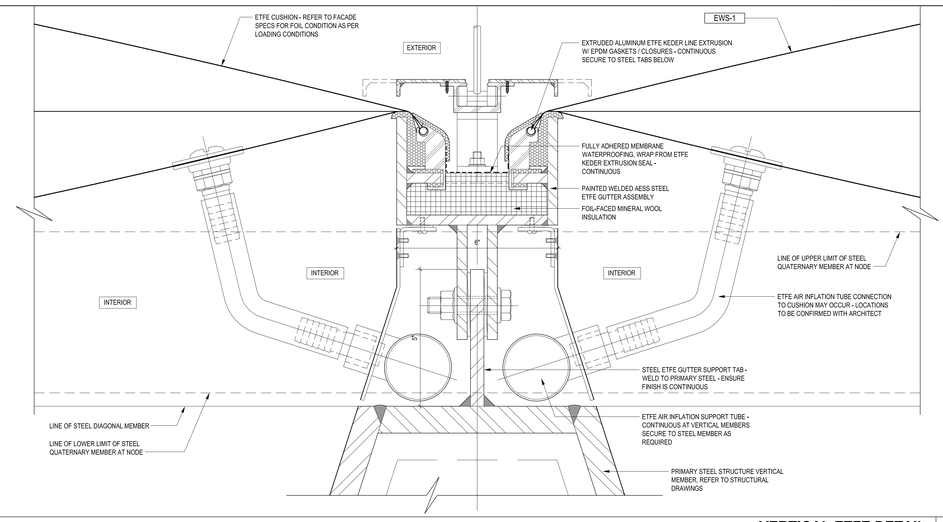
1-1/2" = 1'-0"



PLAN DETAIL AT NORTHEAST CORNER VIEW TAKEN AT 2' A.F.F.

4

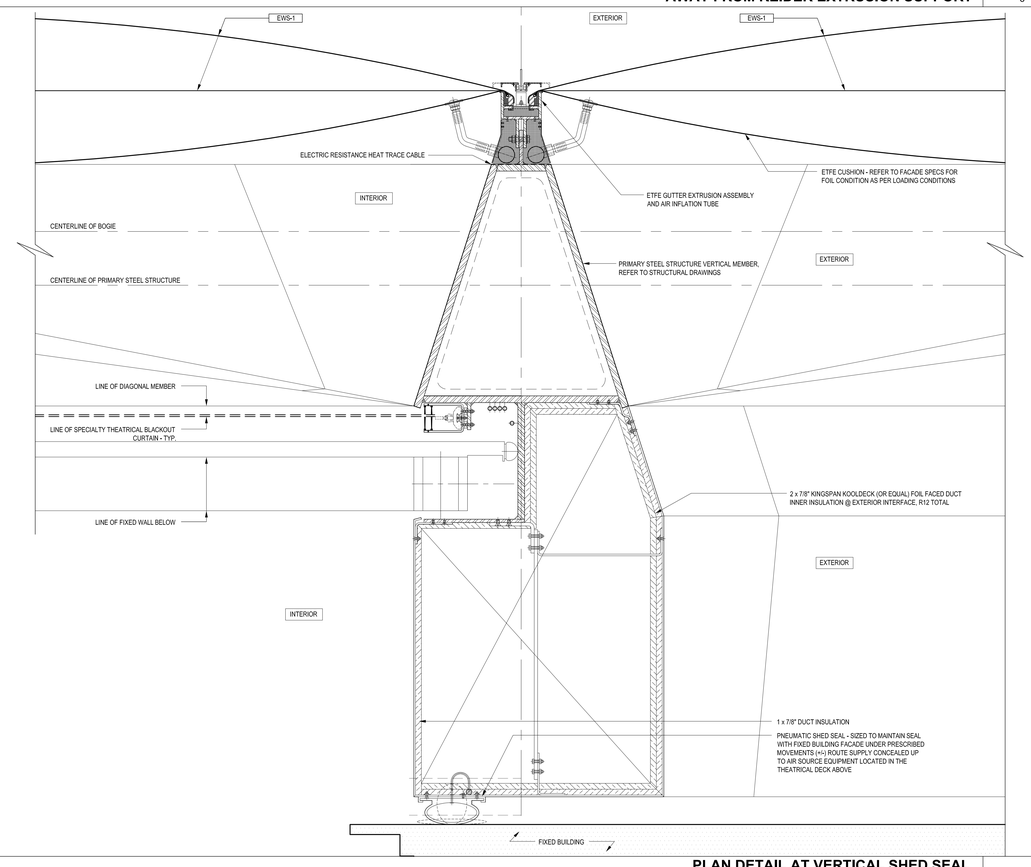
3" = 1'-0"



VERTICAL ETFE DETAIL AWAY FROM KEIDER EXTRUSION SUPPORT

3

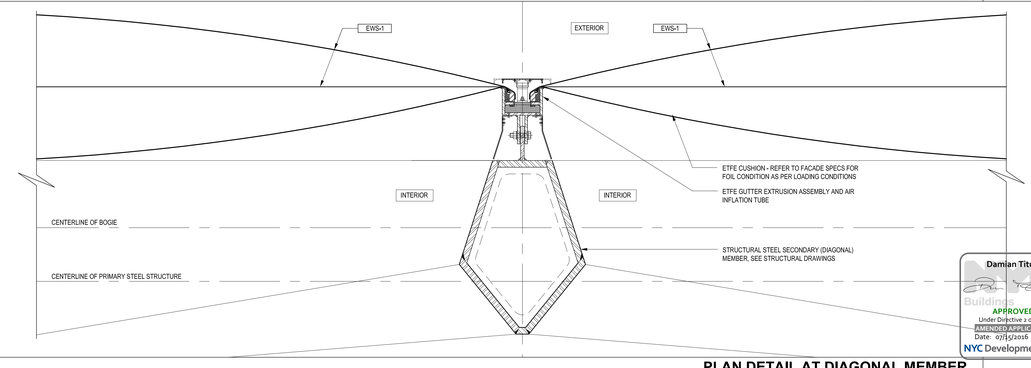
6" = 1'-0"



PLAN DETAIL AT VERTICAL SHED SEAL VIEW TAKEN ABOVE THE MOVABLE WALL TRAVEL ZONE (30' - 45' A.F.F.)

2

1-1/2" = 1'-0"



PLAN DETAIL AT DIAGONAL MEMBER VIEW TAKEN NORMAL TO DIAG. CENTERLINE

1

1-1/2" = 1'-0"

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Under Directive 2 of 1975
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Date: 07/15/2016
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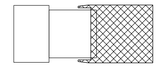
KEY PLAN



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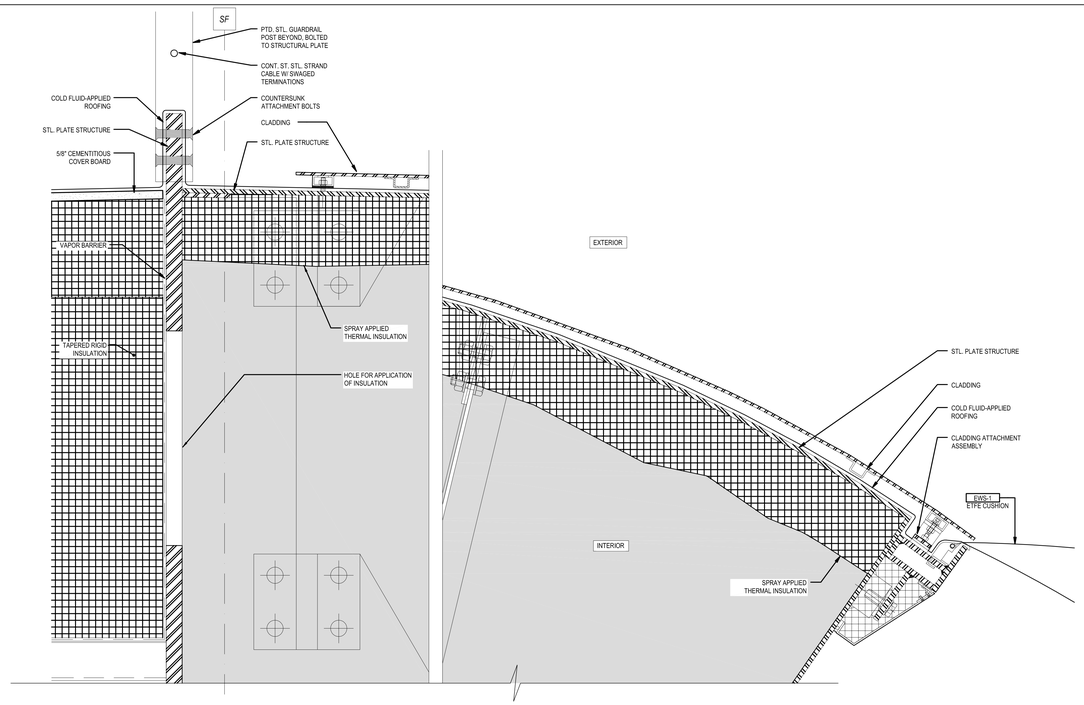
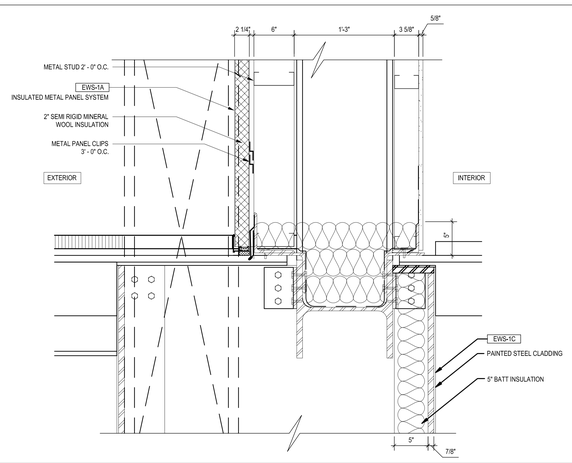
B2107016096 Scan Code



SECTION DETAIL AT ROOF EDGE & CURVE TRANSITION

7

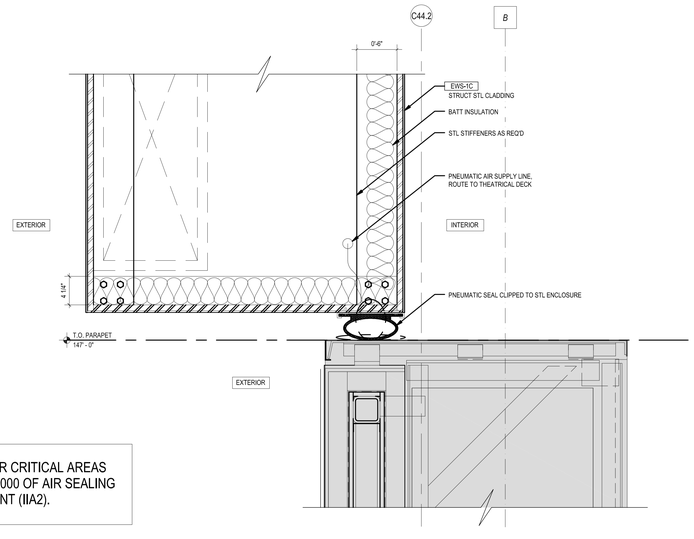
3" = 1'-0"



WALL ASSEMBLY AT MECHANICAL DECK

6

1-1/2" = 1'-0"

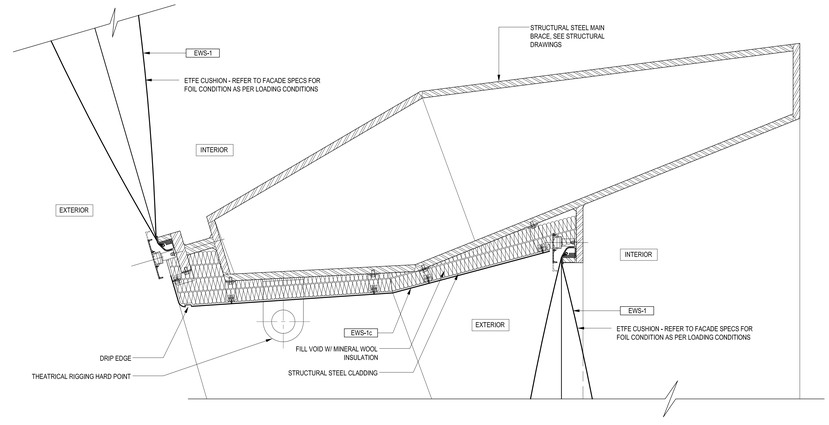


NOTE: DETAILS PROVIDED FOR CRITICAL AREAS FOR INSPECTION PER RCNY 5000 OF AIR SEALING (IIA6) & INSULATION PLACEMENT (IIA2).

SECTION DETAIL AT SHED SEAL TO FIXED BUILDING PARAPET

5

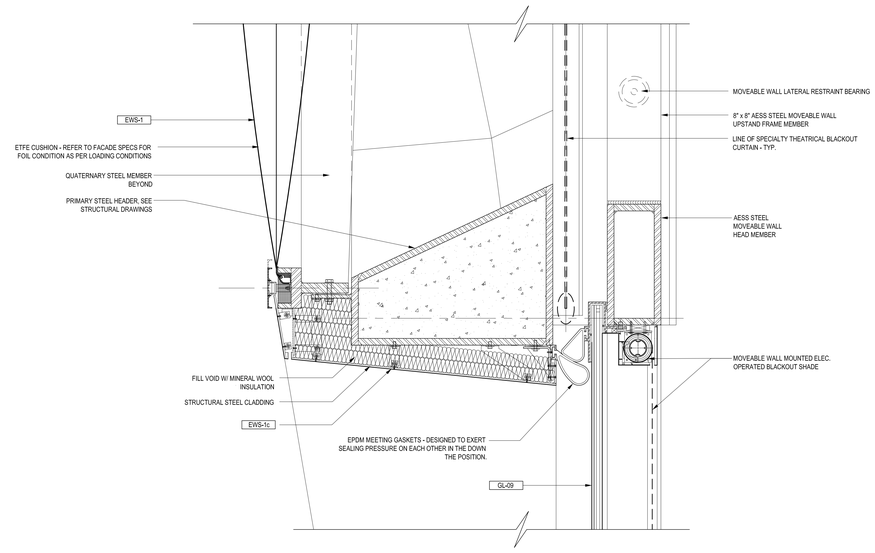
1-1/2" = 1'-0"



SECTION AT EAST FACADE DIAGONAL BRACE

4

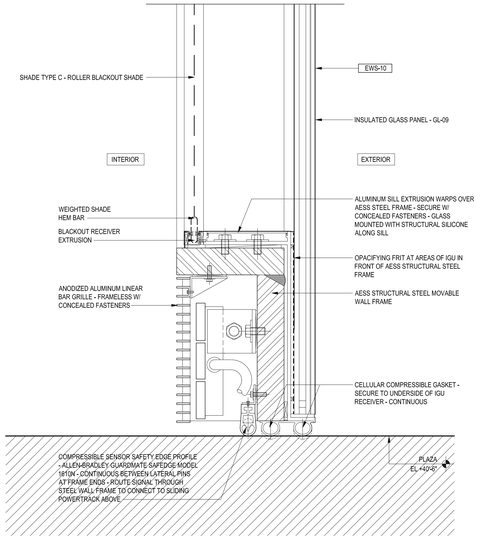
1-1/2" = 1'-0"



SECTION DETAIL AT EAST FACADE MOVABLE WALL HEAD

3

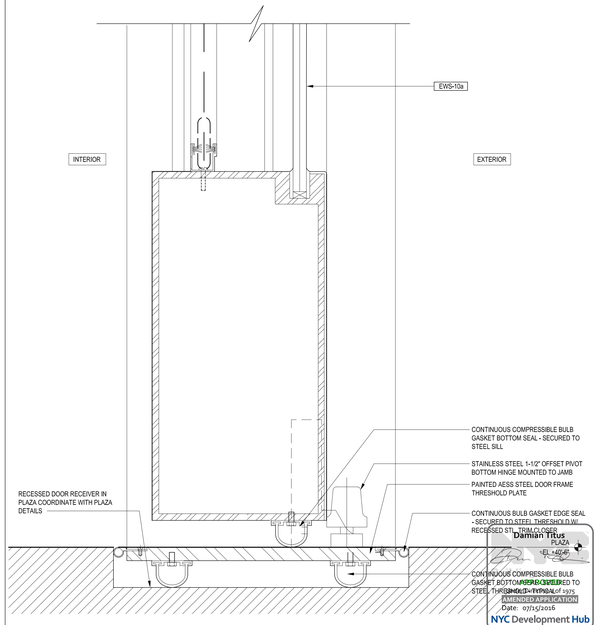
1-1/2" = 1'-0"



SECTION AT SILL AT OPERABLE WALL PANEL

2

3" = 1'-0"



SECTION AT EGRESS DOOR SILL

1

6" = 1'-0"

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KEY PLAN

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TITLE
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B-SCAN NO.

EN-152.00

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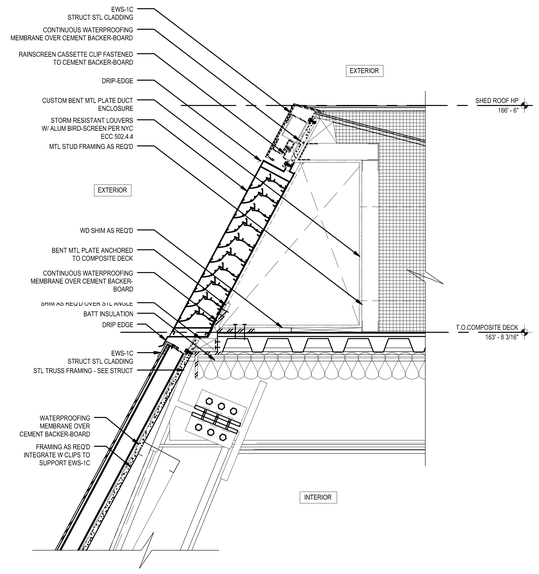
Damian Titus
PLAZA
EL. +0'-0"
SHOP DRAWING of 1935
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

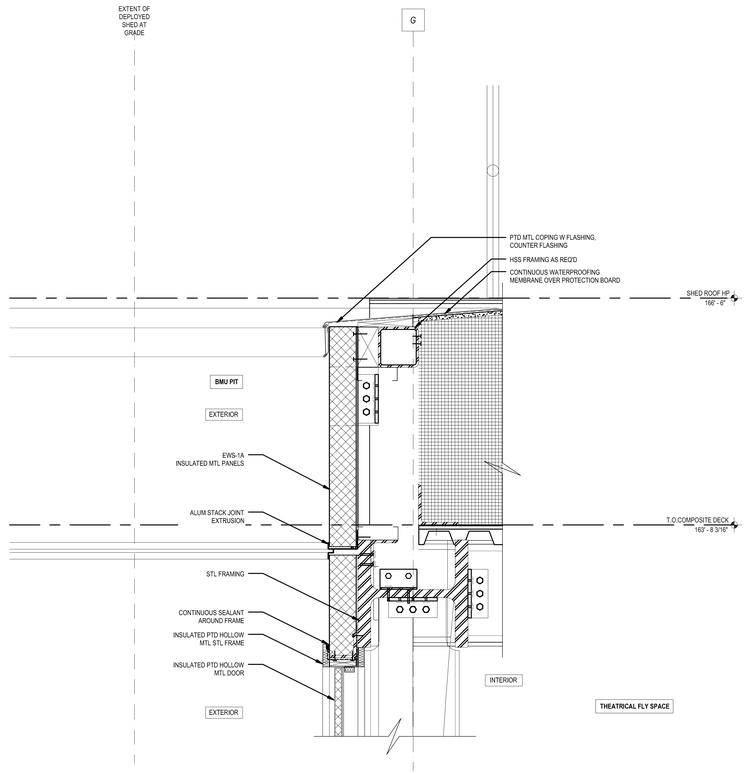
DEPT OF BLDGS 421302297 Job Number
E5452950289 Scan Code



SECTION DETAIL - WEST FACADE (TYP, W/ DUCT)

6

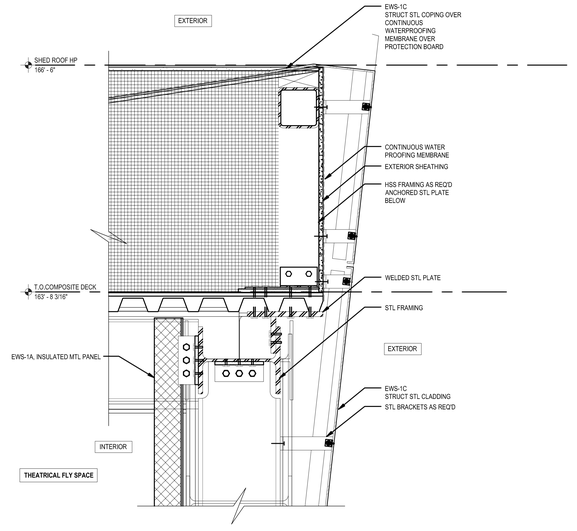
1-1/2" = 1'-0"



SECTION DETAIL AT BMU PIT DOOR HEAD AND ELEC. ACTUATOR

4

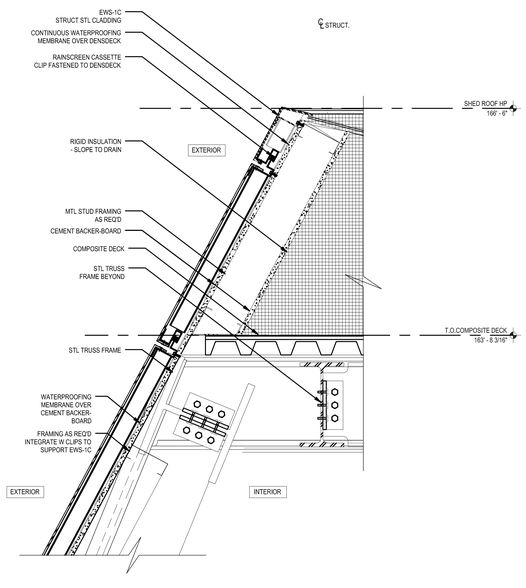
3" = 1'-0"



SECTION AT EAST ROOF EDGE

2

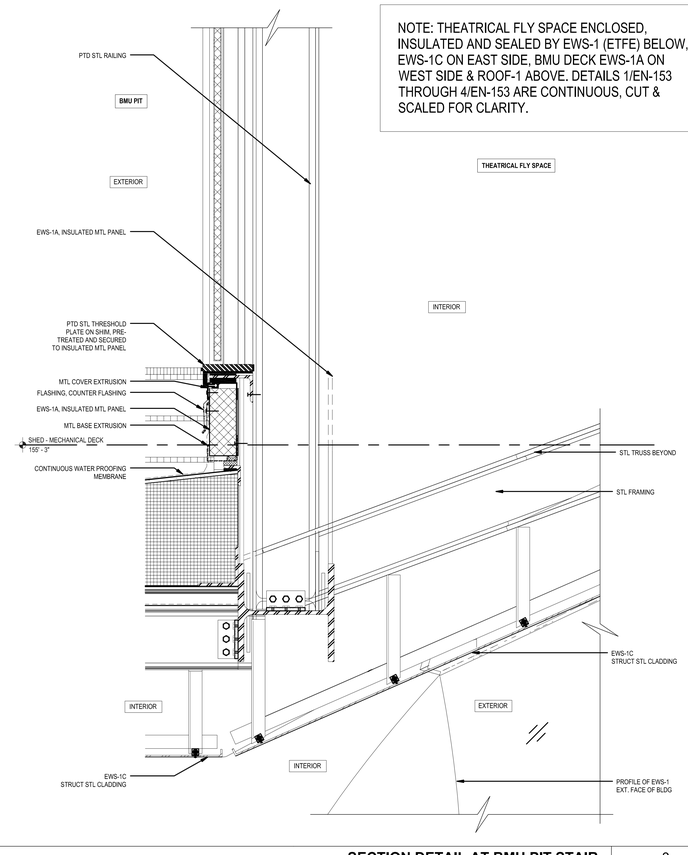
1-1/2" = 1'-0"



SECTION DETAIL - WEST FACADE (NO-DUCT)

5

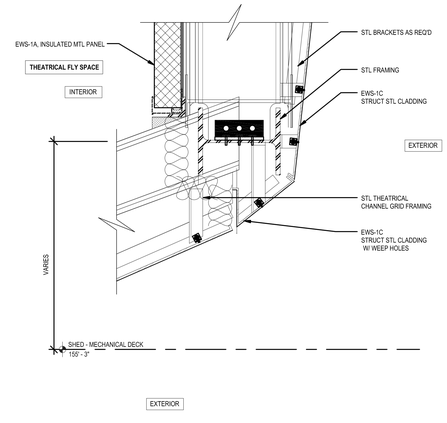
1-1/2" = 1'-0"



SECTION DETAIL AT BMU PIT STAIR

3

1-1/2" = 1'-0"



SECTION DETAIL AT EAST BUILDING EDGE

1

1-1/2" = 1'-0"

NOTE: DETAILS PROVIDED FOR CRITICAL AREAS FOR INSPECTION PER RCNY 5000 OF AIR SEALING (IIA6) & INSULATION PLACEMENT (IIA2).

Damian Titus
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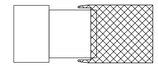
KEY PLAN



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STATE OF NEW YORK

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DEPT OF BLDGS 121192397 Job Number
ES681379963 Scan Code

NEW YORK CITY ENERGY CONSERVATION CODE COMPLIANCE
SECTION 9 - INTERIOR & EXTERIOR LIGHTING MANDATORY AND PRESCRIPTIVE PROVISIONS

SYMBOL LIST

SYMBOL	DESCRIPTION
OS	LIGHTING OCCUPANCY SENSOR
V	LIGHTING VACANCY SENSOR
$\$^{TS}$	TIMER SWITCH
$\$^{TS}_{N}$	TIMER SWITCH FOR NORMAL LIGHTING
$\$^{TS}_{EM}$	TIMER SWITCH FOR EMERGENCY LIGHTING
$	MOMENTARY SWITCH FOR OCCUPANCY SENSOR OVERRIDE
$\$^{V}$	MOMENTARY SWITCH FOR VACANCY SENSOR OVERRIDE
$\$^{OS}$	MOMENTARY SWITCH W/ INTEGRAL OCCUPANCY SENSOR
OR	TIME CLOCK OVERRIDE SWITCH
	WALL MOUNTED LIGHTING CONTROL SWITCH
	WALL MOUNTED LIGHTING CONTROL SWITCH
EM	DENOTES SWITCHED EMERGENCY LIGHTING FIXTURES
EM/NL	DENOTES UN-SWITCHED EMERGENCY NIGHT LIGHT LIGHTING FIXTURES

INTERIOR & EXTERIOR LIGHTING CONTROL NARRATIVE

Architectural Lighting Controls Narrative

Entire Building:

All lighting fixtures on the project are controlled with the Lutron Quantum dimming system, including astronomical time clock control. Certain spaces, as outlined below, include additional levels of control.

Exterior Lighting:

All exterior lighting fixtures are controlled via astronomical time clock. Type TR floodlights located within shed structure are to be turned on only when shed is nested for plaza lighting. All other exterior lighting is for lighting building entries.

Egress pathways:

Egress corridors and stairs are connected to the Lutron dimming system and continuously on for occupant safety.

Back of house mechanical spaces:

Back of house mechanical spaces are controlled by occupancy sensors, turning lights on when automatically activated and off after 30 minutes of an occupant leaving a space, with local manual override keypads in each room.

Back of house corridors:

Back of house corridors are controlled by occupancy sensors, turning lights on when automatically activated and off after 30 minutes of an occupant leaving a space.

Back of house utility and storage closets:

Back utility closets are controlled by local timer switches, turning lights on when switched on and off after 30 minutes.

Restrooms:

Restrooms are controlled by occupancy sensors, turning lighting on when automatically activated and off after 30 minutes of an occupant leaving a space.

Lobbies:

Both the upper and lower lobbies are controlled via astronomical time clock, with manual override keypads at reception desks. Daylight zones adjacent to vertical glazing and area under skylight are on separate control zones. All fixtures are fully dimmable.

Level 1 flex rooms:

Level 1 flex spaces, multipurpose rooms and conference rooms are controlled via astronomical time clock, with local manual override and dimmer keypads in each space.

Level 6 flex areas, green room, and dressing rooms:

Level 6 flex areas are controlled by occupancy sensors, turning lighting on when automatically activated and off after 30 minutes of an occupant leaving a space with local manual override keypads.

Enclosed offices and work rooms:

Enclosed offices are controlled by local vacancy sensors, turning lights on when occupant turns on local switch and off after 30 minutes of an occupant leaving a space.

Conference and multipurpose rooms:

Enclosed offices are controlled by local vacancy sensors, turning lights on when occupant turns on local switch and off after 30 minutes of an occupant leaving a space.

Open offices:

Level 1 open office spaces are controlled by occupancy sensors, turning lighting on when automatically activated and off after 30 minutes of an occupant leaving a space with local manual override keypads.

Galleries:

Galleries are controlled via astronomical time clock, with local manual override touchscreen control stations at two locations on each floor. Daylight zones adjacent to vertical glazing are controlled separately. Gallery track fixtures are fully dimmable and linear fluorescent fixtures are considered work lighting only. Back of house corridors adjacent to gallery spaces where light leak may be a concern include dimmable lighting via the gallery touchscreen control stations.

44

505.2.2.3 DAYLIGHT ZONE CONTROL – ALL DAYLIGHT ZONES ARE CONTROLLED INDEPENDENT OF GENERAL AREA LIGHTING VIA THE LUTRON QUANTUM DIMMING SYSTEM WITH ASTRONOMICAL TIMECLOCK.

505.4 EXIT SIGNS – ALL INTERNALLY ILLUMINATED EXIT SIGNS ARE A MAXIMUM OF 5 WATTS PER SIDE.

BUILDING DEPARTMENT 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.

PROFESSIONAL ENERGY STATEMENT

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Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
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NEW YORK CITY ENERGY CONSERVATION CODE COMPLIANCE SECTION 9 - INTERIOR & EXTERIOR LIGHTING MANDATORY AND PRESCRIPTIVE PROVISIONS

JBB Lighting Design JAROS BAUM & BOLLES

HYE - Culture Shed

Jaros Baum & Bolles, Consulting Engineers
80 Pine Street, 12th Floor • New York, NY 10005
Ph: 212.530.9300 • Fax: 212.269.5894 • www.jbb.com

2011 NYCECC Chapter 5 Interior Lighting Power Density (LPD) Calculation (Space-by-Space)

Floor or Space: Level 2C1

Room Data			Fixture Data						Actual Design
Room Name	Space Category	Room Area (sf)	Type	Qty	Units	Watts (Each)	Watts (Total)	Room Watts	Room LPD (w/sf)
Shared Corridor	Museum	538.6	TB-4	52	LF	7	364	364	0.68
Open Mechanical	Museum	580	FK	5	Each	65	325	325	0.56
Mechanical	Museum	1886	FK	24	Each	65	1560	1560	0.83
Elevator Pit	Museum	388	FJ	3	Each	25	75	75	0.19
Elevator Pit	Museum	107.5	FJ	1	Each	25	25	25	0.23
Elevator Pit	Museum	96	FJ	1	Each	25	25	25	0.26
Elevator Pit	Museum	107.5	FJ	1	Each	25	25	25	0.23

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Summary (by Space Category)	Actual	Baseline
Museum (fixed building)	0.98	1.10
Museum (movable shed)	1.13	1.10
Office	1.10	1.00
Gallery	5.78	5.78

Floor or Space: Level 00

Room Data			Fixture Data						Actual Design
Room Name	Space Category	Room Area (sf)	Type	Qty	Units	Watts (Each)	Watts (Total)	Room Watts	Room LPD (w/sf)
Lobby	Museum	8301						15866	1.91
			TA	93	LF	11	1023		
			TA-1	65	LF	11	715		
			TF	48	Each	6	288		
			TG-1	68	LF	60	4080		
			TN, TN-1	167	Each	50	8350		
			TY	25	Each	8	200		
			TA-3	110	LF	11	1210		
Elevator Alcove	Museum	354.9						630	1.78
			TC	6	Each	55	330		
			TW	6	Each	50	300		
Mailroom	Museum	86	TC-1	6	Each	55	330	330	3.84
CS Guard	Enclosed Office	57	TC-1	4	Each	55	220	220	3.86
BOH Entry	Museum	278.7	TN	9	Each	50	450	450	1.61
Fire Command Center	Enclosed Office	134.4	TC-1	7	Each	55	385	385	2.86
Restroom Corridor	Museum	73.5	TC	3	Each	55	165	165	2.24
Restroom Entry	Museum	274.2						1264	4.61
			TAQ	4	Each	50	200		
			TAN, TAN-1	133	LF	8	1064		
Men's Restroom	Museum	286.2						873	3.05
			TAN, TAN-2	56	LF	8	448		
			TAP	5	Each	25	125		
			TAP-1	6	Each	50	300		
Women's Restroom	Museum	501						913	1.82
			TAN, TAN-2	61	LF	8	488		
			TAP	11	Each	25	275		
			TAP-1	3	Each	50	150		
Exit Passegeway E	Museum	699.7	TD	17	Each	36	612	612	0.87
Bike Storage	Museum	131.6	TB	16	LF	7	112	112	0.85
Storage	Museum	150	TB-4	16	LF	7	112	112	0.75
Janitor	Museum	50	TB-4	4	LF	7	28	28	0.56
Stair G	Museum	190.7	TAK	20	LF	8	160	160	0.84
Exit Passegeway F	Museum	508.9	TB	8	LF	28	224	224	0.44
Storage	Museum	573.1	TB-1	48	LF	28	1344	1344	2.35
Loading Dock	Museum	3490.7						5324	1.53
			TB-3	184	LF	28	5152		
			TAE	2	Each	16	32		
			TB-4	20	LF	7	140		
Workroom	Office	432.8						756	1.75
			TB-3	24	LF	28	672		
			TAB	12	LF	7	84		
Tool Storage	Museum	76.6	TB-4	4	LF	7	28	28	0.37
Office	Enclosed Office	77.3	TX	10	LF	7	70	70	0.91
Restroom	Museum	117.3	TB-4	8	LF	7	56	56	0.48
Corridor	Museum	205.4	TB	24	LF	7	168	168	0.82
Storage	Museum	117.3	TB	8	LF	7	56	56	0.48
Escalator F	Museum	1163.8						4128	3.55
			TN-2	26	Each	50	1300		
			TA-2	88	LF	11	968		
			TL-9	31	LF	60	1860		
Stair E	Museum	130.6	TB-7	12	LF	7	84	84	0.64
Stair F	Museum	469.6	TB-7	24	LF	7	168	168	0.36
Elevator Pit	Museum	85	TB	8	LF	7	56	56	0.66
AV Closet	Museum	50	FK	1	Each	65	65	65	1.30
AV Closet	Museum	36.3	FK	2	Each	65	130	130	3.58
ENVAC Valve	Museum	266.1	TD	4	Each	36	144	144	0.54

Floor or Space: Level 01

Room Data			Fixture Data						Actual Design
Room Name	Space Category	Room Area (sf)	Type	Qty	Units	Watts (Each)	Watts (Total)	Room Watts	Room LPD (w/sf)
Vestibule	Museum	286.1	TC-3	13	Each	55	715	715	2.50
Lobby	Museum	1705.6						2896	1.70
	Museum		TN	50	Each	50	2500		
	Museum		TA-6	36	LF	11	396		
Reception	Museum	153	TC	9	Each	55	495	495	3.24
Lounge	Museum	787.2	TC	27	Each	55	1485	1485	1.89
CS Storage	Museum	1027.3	TB-4	80	LF	7	560	560	0.55
CS Retail Office	Enclosed Office	103.8	TX	8	LF	7	56	56	0.54
Flex Space	Museum	325.5						307	0.94
			TX-1	36	LF	7	252		
			TC	1	Each	55	55		
Flex Space	Museum	584.3						391	0.67
			TX-1	48	LF	7	336		
			TC	1	Each	55	55		
Flex Space	Museum	782.6						724	0.93
			TX-1	72	LF	7	504		
			TC	4	Each	55	220		
Storage	Museum	100	TB-4	8	LF	7	56	56	0.56
Corridor	Museum	212.1	TN	7	Each	50	350	350	1.65
Women's Restroom	Museum	162.7						452	2.78
			TAN	44	LF	8	352		
			TAP-1	2	Each	50	100		
Men's Restroom	Museum	161.3						452	2.80
			TAN	44	LF	8	352		
			TAP-1	2	Each	50	100		
Corridor	Museum	384.6						858	2.23
			TD	11	Each	36	396		
			TX-1	66	Each	7	462		
Corridor	Museum	98	TD	3	Each	36	108	108	1.10
Toilet	Museum	126						388	3.08
			TAN	36	LF	8	288		
			TAP-1	2	Each	50	100		
Security	Enclosed Office	222.3	TX	24	LF	7	168	168	0.76
Security Supervisor Office	Enclosed Office	185.7	TX	24	LF	7	168	168	0.90
Security Command Center	Enclosed Office	210.3	TX	24	LF	7	168	168	0.80
Corridor	Museum	367.9	TD	13	Each	36	468	468	1.27
Work Stations	Open Office	864.9						490	0.57
			TX	62	LF	7	434		
			TAB	8	LF	7	56		
Multipurpose/Muster Room	Museum	302.3	TX	32	LF	7	224	224	0.74
Storage	Museum	52.1	TB-4	4	LF	7	28	28	0.54
Plan/Print Room	Enclosed Office	181.1	TX	16	LF	7	112	112	0.62
Server Room	Museum	92	TB-4	8	LF	7	56	56	0.61
Corridor	Museum	34.7	TD	1	Each	36	36	36	1.04
Shower	Museum	59						145	2.46
			TB-2	5	LF	7	35		
			TC	1	Each	55	55		
			TC-2	1	Each	55	55		
ADA Shower	Museum	95.3						200	2.10
			TB-2	5	LF	7	35		
			TC	2	Each	55	110		
			TC-2	1	Each	55	55		
Locker Room	Museum	303						260	0.86
			TX	32	LF	7	224		
			TD	1	Each	36	36		
Corridor	Museum	1384						932	0.67
			TD	22	Each	36	792		
			TB-4	20	LF	7	140		
Table and Chair Storage	Museum	86.7	TB-4	12	LF	7	84	84	0.97
Janitor's Closet	Museum	73.4	TB-4	4	LF	7	28	28	0.38
Elevator Control	Museum	69.2	TB-4	8	LF	7	56	56	0.81
Trash	Museum	132.2	TB-4	12	LF	7	84	84	0.64
CS Storage	Museum	354.2	TB-4	56	LF	7	392	392	1.11
CS Storage	Museum	195	TB-4	16	LF	7	112	112	0.57
Corridor	Museum	120.5						260	2.16
			TC	2	Each	55	110		
			TW	3	Each	50	150		
BOH Corridor	Museum	102.9	TB-4	12	LF	7	84	84	0.82
Exit Passageway D	Museum	445	TB-7	16	LF	7	112	112	0.25
Stair C	Museum	169	TB-7	12	LF	7	84	84	0.50
Stair D	Museum	449.6	TB-7	28	LF	7	196	196	0.44
Stair E	Museum	294.5	TB-7	24	LF	7	168	168	0.57
Stair F	Museum	285.4	TB-7	16	LF	7	112	112	0.39
Elec	Museum	134.6	FK	2	Each	65	130	130	0.97
DGP	Museum	104.2	TB-4	12	LF	7	84	84	0.81
AV/IT Security	Museum	146.3	FK	2	Each	65	130	130	0.89
Mechanical	Museum	23.7	FK	1	Each	65	65	65	2.74
Mechanical	Museum	23.7	FK	1	Each	65	65	65	2.74
Mechanical	Museum	40.7	FK	1	Each	65	65	65	1.60
Mechanical	Museum	33.2	FK	1	Each	65	65	65	1.96
Storage	Museum	15.8	FK	1	Each	65	65	65	4.11
Mechanical	Museum	75.1	FK	1	Each	65	65	65	0.87
Mechanical	Museum	56.7	FK	1	Each	65	65	65	1.15
Mechanical	Museum	43.1	FK	1	Each	65	65	65	1.51
Mechanical	Museum	16.5	FK	1	Each	65	65	65	3.94
Mechanical	Museum	53.7	FK	1	Each	65	65	65	1.21
Mechanical	Museum	121.7	FK	2	Each	65	130	130	1.07
Mechanical	Museum	28	FK	1	Each	65	65	65	2.32
Mechanical	Museum	28	FK	1	Each	65	65	65	2.32
Mechanical	Museum	21	FK	1	Each	65	65	65	3.10
Mechanical	Museum	28	FK	1	Each	65	65	65	2.32
A/V	Museum	82	FK	2	Each	65	130	130	1.59
Electrical	Museum	56.6	FK	1	Each	65	65	65	1.15
Electrical	Museum	311.5	FK	3	Each	65	195	195	0.63

Floor or Space: Level 02

Room Data			Fixture Data						Actual Design
Room Name	Space Category	Room Area (sf)	Type	Qty	Units	Watts (Each)	Watts (Total)	Room Watts	Room LPD (w/sf)
Vestibule	Museum	178.4	TC	5	Each	55	275	275	1.54
Vestibule	Museum	131.4						415	3.16
			TC	3	Each	55	165		
			TW	5	Each	50	250		
Corridor	Museum	431.4						440	1.02
			TK	6	Each	50	300		
			TB-4	20	LF	7	140		
Janitor's Closet	Museum	63.8	TB-4	4	LF	7	28	28	0.44
Escalator	Museum	418	TN-2	12	Each	50	600	600	1.44
Stair C	Museum	261.4	TB-7	12	LF	7	84	84	0.32
Stair D	Museum	455						1150	2.53
			TAM	12	Each	50	600		
			TAL	11	Each	50	550		
Stair E	Museum	231						700	3.03
			TAM	6	Each	50	300		
			TAL	8	Each	50	400		
Stair F	Museum	231	TB-7	12	LF	7	84	84	0.36
Electrical	Museum	35	FK	1	Each	65	65	65	1.86
Electrical	Museum	268	FK	3	Each	65	195	195	0.73

Floor or Space: Level 03

Room Data			Fixture Data						Actual Design
Room Name	Space Category	Room Area (sf)	Type	Qty	Units	Watts (Each)	Watts (Total)	Room Watts	Room LPD (w/sf)
Corridor	Gallery	2044	TL	222	LF	60	13320	13320	6.52
Corridor	Museum	2044	TJ	15	Each	56	840	840	0.41
Art Gallery	Gallery	12360.3	TL	1208	LF	60	72480	72480	5.86
Art Gallery	Museum	12360.3	TJ	130	Each	56	7280	7280	0.59
Viewing Gallery	Gallery	1111.8	TL	102	LF	60	6120	6120	5.50
Viewing Gallery	Museum	1111.8	TJ	7	Each	56	392	392	0.35
Corridor	Museum	54	TB4	8	LF	7	56	56	1.04
Corridor	Museum	248	TB-4	12	LF	7	84	84	0.34
Janitor's Closet	Museum	58	TB-4	4	LF	7	28	28	0.48
Corridor	Museum	150	TB-4	8	LF	7	56	56	0.37
BOH Corridor	Museum	147	TB-4	12	LF	7	84	84	0.57
Escalator	Museum	418	TN-2	14	Each	50	700	700	1.67
Stair C	Museum	296	TB-7	16	LF	7	112	112	0.38
Stair D	Museum	472.9						1150	2.43
			TAM	12	Each	50	600		
			TAL	11	Each	50	550		
Stair E	Museum	231						700	3.03
			TAM	6	Each	50	300		
			TAL	8	Each	50	400		
Stair F	Museum	215.6	TB-7	16	LF	7	112	112	0.52
Electrical	Museum	67.3	FK	1	Each	65	65	65	0.97
AV/IT Security	Museum	215	FK	3	Each	65	195	195	0.91
Electrical	Museum	137	FK	2	Each	65	130	130	0.95
Mechanical	Museum	586	FK	7	Each	65	455	455	0.78
CS Lobby A.H.U & TD BOH Exhausts	Museum	1585	FK	12	Each	65	780	780	0.49
Circulation	Museum	15.1	TA-4	7	LF	11	77	77	5.10
Circulation	Museum	22.2	TA-4	10	LF	11	110	110	4.95
Circulation	Museum	30	TA-4	9	LF	11	99	99	3.30
Circulation	Museum	35.7	TA-4	18	LF	11	198	198	5.55

Floor or Space: Podium - Level 04

Room Data			Fixture Data						Actual Design
Room Name	Space Category	Room Area (sf)	Type	Qty	Units	Watts (Each)	Watts (Total)	Room Watts	Room LPD (w/sf)
Corridor	Museum	63	TC	2	Each	55	110	110	1.75
Trash	Museum	90.4	TB-4	8	LF	7	56	56	0.62
Corridor	Museum	521.7						716	1.37
			TC	12	Each	55	660		
			TX-1	8	LF	7	56		
Women's Restroom	Museum	459.6						1050	2.28
			TAN, TAN-2	75	LF	8	600		
			TAP	6	Each	25	150		
			TAP-1	6	Each	50	300		
Men's Restroom	Museum	367.1						816	2.22
			TAN, TAN-2	77	LF	8	616		
			TAP-1	4	Each	50	200		
Unisex Restroom	Museum	62.2						164	2.64
			TAN, TAN-2	8	LF	8	64		
			TAP-1	2	Each	50	100		
Janitor's Closet/Storage	Museum	506.1	TB-4	64	LF	7	448	448	0.89
Corridor	Museum	357.1						284	0.80
			TK	4	Each	50	200		
			TB-4	12	LF	7	84		
Escalator	Museum	350	TN-2	6	Each	50	300	300	0.86
Stair C	Museum	296	TB-7	16	LF	7	112	112	0.38
Stair D	Museum	472.9						1150	2.43
			TAM	12	Each	50	600		
			TAL	11	Each	50	550		
Stair E	Museum	231						700	3.03
			TAM	6	Each	50	300		
			TAL	8	Each	50	400		
Stair F	Museum	215.6	TB-7	16	LF	7	112	112	0.52
Electrical	Museum	607.7	FK	5	Each	65	325	325	0.53

Floor or Space: Podium - Level 05

Room Data			Fixture Data						Actual Design
Room Name	Space Category	Room Area (sf)	Type	Qty	Units	Watts (Each)	Watts (Total)	Room Watts	Room LPD (w/sf)
Corridor	Gallery	2044	TL	224	LF	60	13440	13440	6.58
Corridor	Museum	2044	TJ	15	Each	56	840	840	0.41
Art Gallery	Gallery	12360.3	TL	1208	LF	60	72480	72480	5.86
Art Gallery	Museum	12360.3	TJ	130	Each	56	7280	7280	0.59
Viewing Gallery	Gallery	1111.8	TL	102	LF	60	6120	6120	5.50
Viewing Gallery	Museum	1111.8	TJ	6	Each	56	336	336	0.30
Escalator	Museum	780	TN-2	16	Each	50	800	800	1.03
Corridor	Museum	56	TB-4	8	LF	7	56	56	1.00
Corridor	Museum	588.6	TB-4	64	LF	7	448	448	0.76
Janitor's Closet	Museum	61.4	TB-4	1	LF	7	7	7	0.11
BOH Corridor	Museum	141.6	TB-4	16	LF	7	112	112	0.79
Corridor	Museum	140	TB-4	12	LF	7	84	84	0.60
Stair C	Museum	296	TB-7	16	LF	7	112	112	0.38
Stair D	Museum	472.9						1150	2.43
			TAM	12	Each	50	600		
			TAL	11	Each	50	550		
Stair E	Museum	231						700	3.03
			TAM	6	Each	50	300		
			TAL	8	Each	50	400		
Stair F	Museum	215.6	TB-7	16	LF	7	112	112	0.52
Circulation	Museum	30	TA-4	9	LF	11	99	99	3.30
Circulation	Museum	15.1	TA-4	7	LF	11	77	77	5.10
Circulation	Museum	22.2	TA-4	10	LF	11	110	110	4.95
Circulation	Museum	35.7	TA-4	18	LF	11	198	198	5.55
Electrical Equipment	Museum	81.4	FK	2	Each	65	130	130	1.60
Electrical	Museum	123	FK	2	Each	65	130	130	1.06
IT/AV/Security	Museum	237	FK	3	Each	65	195	195	0.82
AV Room	Museum	145.1	FK	2	Each	65	130	130	0.90
Storage	Museum	99	TB-4	8	LF	7	56	56	0.57
Mechanical	Museum	1368	FK	17	Each	65	1105	1105	0.81
Mechanical	Museum	2128	FK	22	Each	65	1430	1430	0.67
Mechanical	Museum	825	FK	9	Each	65	585	585	0.71

Floor or Space: Level 06

Room Data			Fixture Data						Actual Design
Room Name	Space Category	Room Area (sf)	Type	Qty	Units	Watts (Each)	Watts (Total)	Room Watts	Room LPD (w/sf)
Corridor	Museum	71.1	TC	2	Each	55	110	110	1.55
Trash	Museum	97.8	TB-4	8	LF	7	56	56	0.57
Corridor	Museum	526	TC					688	1.31
			TC	12	Each	55	660		
			TX-1	4	LF	7	28		
ADA Unisex Restroom	Museum	53.7						164	3.05
			TAN, TAN-2	8	LF	8	64		
			TAP-1	2	Each	50	100		
Women's Restroom	Museum	455.9						924	2.03
			TAN, TAN-2	78	LF	8	624		
			TAP-1	6	Each	50	300		
Men's Restroom	Museum	367.8						977	2.66
			TAN, TAN-2	84	LF	8	672		
			TAP-1	5	Each	50	250		
			TC	1	Each	55	55		
Corridor	Museum	854.8	TK	19	Each	50	950	950	1.11
Storage	Museum	896	TB-4	100	LF	7	700	700	0.78
Laundry	Museum	110.7	TB-4	8	LF	7	56	56	0.51
ADA Unisex Restroom	Museum	53.7						174	3.24
			TAN	8	LF	8	64		
			TC	2	Each	55	110		
Dressing Room	Museum	254						1430	5.63
			TM	40	LF	27	1080		
			TK	7	Each	50	350		
Unisex WC	Museum	141.8						402	2.83
			TAN	9	LF	8	72		
			TC	6	Each	55	330		
Corridor	Museum	235	TK	4	Each	50	200	200	0.85
Exit Accessway	Museum	650						1450	2.23
			TV	2	Each	300	600		
			TK	17	Each	50	850		
Janitor's Closet	Museum	39.9	TB-4	8	LF	7	56	56	1.40
ADA Shower	Museum	72.3						136	1.91
			TB-2	4	LF	7	28		
			TC	1	Each	55	55		
			TC-2	1	Each	55	55		
Unisex Shower	Museum	48.2						166	3.44
			TB-2	8	LF	7	56		
			TC	1	Each	55	55		
			TC-2	1	Each	55	55		
Dressing Room	Museum	290.5						1530	5.27
			TM	40	LF	27	1080		
			TK	9	Each	50	450		
Flex Area	Museum	208.4	TK	6	Each	50	300	300	1.44
Flex Area	Museum	287.2	TK	6	Each	50	300	300	1.04
Escalator	Museum	182	TN-2	2	Each	50	100	100	0.55
Stair C	Museum	296	TB-7	16	LF	7	112	112	0.38
Stair D	Museum	472.9						1150	2.43
			TAM	12	Each	50	600		
			TAL	11	Each	50	550		
Stair E	Museum	231						700	3.03
			TAM	6	Each	50	300		
			TAL	8	Each	50	400		
Stair F	Museum	215.6	TB-7	16	LF	7	112	112	0.52
Sound/Light Lock	Museum	114	TN	2	Each	50	100	100	0.88
Sound/Light Lock	Museum	117	TN	2	Each	50	100	100	0.85
Sound/Light Lock	Museum	91	TN	2	Each	50	100	100	1.10
Electrical	Museum	176.2	TK	6	Each	50	300	300	1.70
Mechanical	Museum	928	FK	14	Each	65	910	910	0.98
Electrical	Museum	310	FK	6	Each	65	390	390	1.26
Electrical	Museum	47.2	FK	1	Each	65	65	65	1.38
Electrical	Museum	32.8	FK	1	Each	65	65	65	1.98
Mechanical	Museum	15.2	FK	1	Each	65	65	65	4.28

Floor or Space: Level 07

Room Data			Fixture Data						Actual Design
Room Name	Space Category	Room Area (sf)	Type	Qty	Units	Watts (Each)	Watts (Total)	Room Watts	Room LPD (w/sf)
Corridor	Gallery	1867.4	TL	230	LF	60	13800	13800	7.39
Corridor	Museum	1867.4	TJ	15	Each	56	840	840	0.45
Art Gallery	Gallery	10834	TL	1137	LF	60	68220	68220	6.30
Art Gallery	Museum	10834	TJ	116	Each	56	6496	6496	0.60
Viewing Gallery	Gallery	830.2	TL	88	LF	60	5280	5280	6.36
Viewing Gallery	Museum	830.2	TJ	7	Each	56	392	392	0.47
Storage	Museum	64	TB-4	16	LF	7	112	112	1.75
Janitor's Closet	Museum	52	TB-4	8	LF	7	56	56	1.08
BMS Control Room	Museum	90.5	TB-4	8	LF	7	56	56	0.62
Vestibule	Museum	34.8	TB-4	8	LF	7	56	56	1.61
Corridor	Museum	456	TB-4	36	LF	7	252	252	0.55
Corridor	Museum	140	TB-4	16	LF	7	112	112	0.80
Corridor	Museum	633	TB-4	44	LF	7	308	308	0.49
Escalator	Museum	931	TN-2	8	Each	50	400	400	0.43
Stair C	Museum	296	TB-7	16	LF	7	112	112	0.38
Stair D	Museum	472.9						1150	2.43
			TAM	12	Each	50	600		
			TAL	11	Each	50	550		
Stair E	Museum	231						700	3.03
			TAM	6	Each	50	300		
			TAL	8	Each	50	400		
Stair F	Museum	215.6	TB-7	16	LF	7	112	112	0.52
Circulation	Museum	30	TA-4	9	LF	11	99	99	3.30
Circulation	Museum	15.1	TA-4	7	LF	11	77	77	5.10
Circulation	Museum	22.2	TA-4	10	LF	11	110	110	4.95
Circulation	Museum	35.7	TA-4	18	LF	11	198	198	5.55
Electrical	Museum	91.2	FK	1	Each	65	65	65	0.71
IT/AV/Security	Museum	333.2	FK	4	Each	65	260	260	0.78
Electrical	Museum	132.2	FK	2	Each	65	130	130	0.98
Mechanical	Museum	1511.4	FK	13	Each	65	845	845	0.56
Mechanical	Museum	2412.1	FK	23	Each	65	1495	1495	0.62
Mechanical	Museum	1324.5	FK	14	Each	65	910	910	0.69
Storage	Museum	80.2	TK	2	Each	50	100	100	1.25
Storage	Museum	226.1	TK	7	Each	50	350	350	1.55
Storage	Museum	36.5	TK	2	Each	50	100	100	2.74

Floor or Space: Level 08

Room Data			Fixture Data						Actual Design
Room Name	Space Category	Room Area (sf)	Type	Qty	Units	Watts (Each)	Watts (Total)	Room Watts	Room LPD (w/sf)
Corridor	Gallery	2899	TL	171	LF	60	10260	10260	3.54
Corridor	Museum	2899	TJ	13	Each	56	728	728	0.25
Art Gallery	Gallery	7914.6	TL	602	LF	60	36120	36120	4.56
Art Gallery	Museum	7914.6	TJ	60	Each	56	3360	3360	0.42
Viewing Gallery	Gallery	830.2	TL	84	LF	60	5040	5040	6.07
Viewing Gallery	Museum	830.2	TJ	7	Each	56	392	392	0.47
Escalator	Gallery	931	TL	123	LF	60	7380	7380	7.93
Escalator	Museum	931	TJ	9	Each	56	504	504	0.54
Stair C	Museum	296	TB-7	16	LF	7	112	112	0.38
Stair D	Museum	472.9						1150	2.43
			TAM	12	Each	50	600		
			TAL	11	Each	50	550		
Stair E	Museum	231						700	3.03
			TAM	6	Each	50	300		
			TAL	8	Each	50	400		
Stair F	Museum	215.6	TB-7	16	LF	7	112	112	0.52
Corridor	Museum	174.2	TC	5	Each	55	275	275	1.58
Corridor	Museum	367						578	1.57
			TC	10	Each	55	550		
			TX-1	4	LF	7	28		
Women's Restroom	Museum	325.7						695	2.13
			TAN, TAN-2	65	LF	8	520		
			TAP	3	Each	25	75		
			TAP-1	2	Each	50	100		
Reception	Museum	350						680	1.94
			TC	6	Each	55	330		
			TW	7	Each	50	350		
Conference	Museum	333						872	2.62
			TK	4	Each	50	200		
			TQ	32	Each	21	672		
Conference	Museum	286						872	3.05
			TK	4	Each	50	200		
			TQ	32	Each	21	672		
Pantry	Museum	482.7						790	1.64
			TC	1	Each	55	55		
			TQ	15	LF	21	315		
			TB	20	LF	7	140		
			TAB	20	LF	7	140		
			TX-1	20	LF	7	140		
Office	Open Office	2000						2107	1.05
			TC	7	Each	55	385		
			TQ	60	LF	21	1260		
			TX-1	66	LF	7	462		
Corridor	Museum	251.9	TC	10	Each	55	550	550	2.18
Men's Restroom	Museum	255.7						612	2.39
			TAN, TAN-2	64	LF	8	512		
			TAP-1	2	Each	50	100		
Corridor	Museum	264.2	TB-4	24	LF	7	168	168	0.64
Corridor	Museum	245	TK	5	Each	50	250	250	1.02
Janitor's Closet	Museum	49.2	TB-4	4	LF	7	28	28	0.57
Archive	Museum	85.8	TB-4	8	LF	7	56	56	0.65
Accessory Work Area	Open Office	320.1						560	1.75
			TC	4	Each	55	220		
			TW	4	Each	50	200		
			TX-1	20	LF	7	140		
Office	Open Office	1042						1155	1.11
			TC	7	Each	55	385		
			TQ	30	LF	21	630		
			TX-1	20	LF	7	140		
Trash	Museum	163.4	TB-4	16	LF	7	112	112	0.69
Storage	Museum	115	TB-4	12	LF	7	84	84	0.73
Electrical	Museum	74.3	FK	1	Each	65	65	65	0.87
Electrical	Museum	149.7	FK	2	Each	65	130	130	0.87
Circulation	Museum	30	TA-4	9	LF	11	99	99	3.30
Circulation	Museum	146	TA-4	18	LF	11	198	198	1.36
Circulation	Museum	22.2	TA-4	10	LF	11	110	110	4.95
Electrical	Museum	720	FK	5	Each	65	325	325	0.45

Floor or Space: Level 09

Room Data			Fixture Data						Actual Design
Room Name	Space Category	Room Area (sf)	Type	Qty	Units	Watts (Each)	Watts (Total)	Room Watts	Room LPD (w/sf)
Corridor	Museum	256.1						196	0.77
			TB-4	16	LF	7	112		
			TB-2	12	LF	7	84		
Stair F	Museum	256	TB-7	16	LF	7	112	112	0.44
Corridor	Museum	119.7	TB-4	16	LF	7	112	112	0.94
Electrical	Museum	147.5	FK	2	Each	65	130	130	0.88
ATS Room	Museum	157.9	FK	3	Each	65	195	195	1.23
AV/IT/Security	Museum	242.2	FK	3	Each	65	195	195	0.81
ATS Room	Museum	154.1	FK	2	Each	65	130	130	0.84
Mechanical	Museum	1072.1	FK	10	Each	65	650	650	0.61
Mechanical	Museum	806.9	FK	10	Each	65	650	650	0.81

Floor or Space: Level 10

Room Data			Fixture Data						Actual Design
Room Name	Space Category	Room Area (sf)	Type	Qty	Units	Watts (Each)	Watts (Total)	Room Watts	Room LPD (w/sf)
Corridor	Museum	227	TB-4	16	LF	7	112	112	0.49
Elevator Machine Room	Museum	514.5	TB	52	LF	7	364	364	0.71
Elevator Machine Room	Museum	177.3	TB	16	LF	7	112	112	0.63
Stair F	Museum	264.3	TB-7	16	LF	7	112	112	0.42
AV/IT/Security	Museum	652	FK	7	Each	65	455	455	0.70

Floor or Space: Tower D Level 67

Room Data			Fixture Data						Actual Design
Room Name	Space Category	Room Area (sf)	Type	Qty	Units	Watts (Each)	Watts (Total)	Room Watts	Room LPD (w/sf)
CS Mechanical	Museum	793	FK	7	Each	65	455	455	0.57

Floor or Space: Tower D Level 69

Room Data			Fixture Data						Actual Design
Room Name	Space Category	Room Area (sf)	Type	Qty	Units	Watts (Each)	Watts (Total)	Room Watts	Room LPD (w/sf)
CS Mechanical	Museum	734.1	FK	6	Each	65	390	390	0.53

Deployed Shed

Room Data			Fixture Data						Actual Design
Room Name	Space Category	Room Area (sf)	Type	Qty	Units	Watts (Each)	Watts (Total)	Room Watts	Room LPD (w/sf)
Deployed Shed	Museum	17088						34744	2.03
			TS	68	Each	168	11424		
			TA-5	280	LF	11	3080		
			TT	920	Each	22	20240		

Deployed Shed Mechanical Deck

Room Data			Fixture Data						Actual Design
Room Name	Space Category	Room Area (sf)	Type	Qty	Units	Watts (Each)	Watts (Total)	Room Watts	Room LPD (w/sf)
Deployed Shed Mechanical Deck	Museum	18907						6076	0.32
			TB-4	868	Each	7	6076		

JBB Lighting Design JAROS BAUM & BOLLES

HYE - Culture Shed

Jaros Baum & Bolles, Consulting Engineers
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Ph: 212.530.9300 • Fax: 212.269.5894 • www.jbb.com

2011 NYCECC Chapter 5 Exterior Lighting Power Density (LPD) Calculation (Space-by-Space) - Culture Shed

Floor or Space: Culture Shed - Non Tradeable

Room Data				Fixture Data					Actual Design		Code Allowance (watts)	Base Site Allowance Used (1300 W available)
Room Name	Space Category	Room Area (sf)	Room Area (lf)	Type	Qty	Units	Watts (Each)	Watts (Total)	Room Watts	Room LPD		
North Façade	Façade		20	TAF	5	Each	10	50	50	5.00	50	
Total Allowable Podium Non-Tradeable									50		50	

Floor or Space: Culture Shed - Tradeable

Room Data				Fixture Data					Actual Design		Code Allowance (watts)	Base Site Allowance Used (1300 W available)
Room Name	Space Category	Room Area (sf)	Room Area (lf)	Type	Qty	Units	Watts (Each)	Watts (Total)	Room Watts	Room LPD		
Entry Canopy	Canopy	223		TF	24	Each	6	144	144	0.40	89	55
C5 BOH Entry	Other Doors		6.5	TAJ	2	Each	12.8	25.6	25.6	20.00	130	
North Canopy Entrance	Canopy	50		TAH	32	LF	11	352	352	0.40	20	332
Roof Lighting	Walkway	7500		FR	27	Each	16	432	432	0.20	1500	
Total Allowable Tradeable									521.6		1739	
Totall Allowable Podium Watts (Tradeable and Non-Tradeable)									571.60		1789	387

BUILDING DEPARTMENT 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.

PROFESSIONAL ENDORSEMENT

TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE.

Damian Titus
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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CHECKED BY JA

PROJECT NUMBER
14073.N.000

TITLE
LIGHTING POWER DENSITY CALCULATIONS

DRAWING NO.

B-SCAN NO.

EN-202.01

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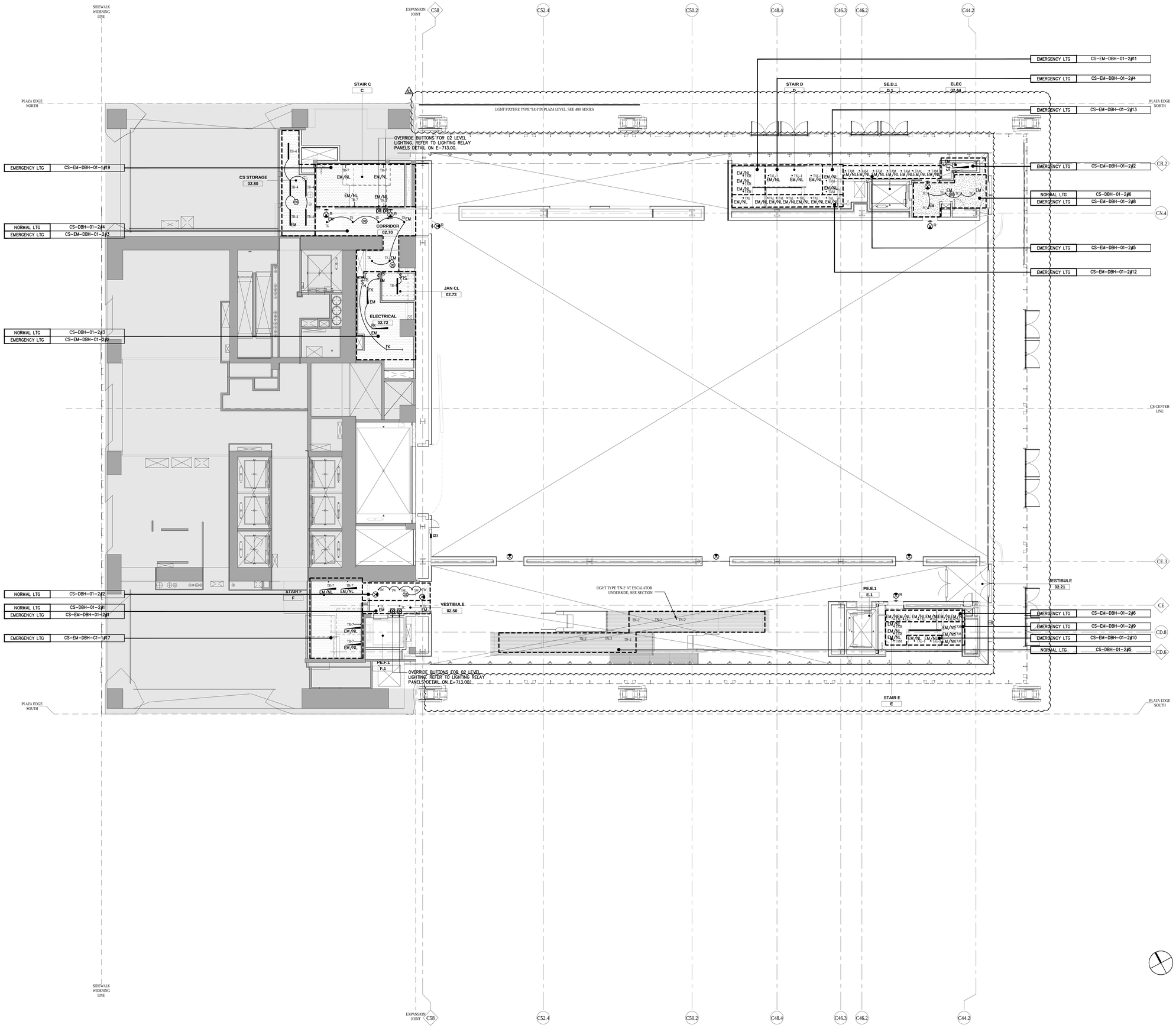

NOTES

1. REFER TO DRAWING E-001 FOR SYMBOL LIST.
2. REFER TO DRAWING E-002 FOR LIGHTING FIXTURE SCHEDULE.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT QUANTITY, LOCATION AND DIMENSIONS OF ALL LIGHTING FIXTURES.
4. REFER TO LIGHTING CONSULTANTS DOCUMENTS FOR EXACT LIGHTING FIXTURE SPECIFICATIONS, LIGHTING CONTROL REQUIREMENTS, LIGHTING DIMMING ZONING, ETC.
5. ZONING DENOTED ON PLANS ARE FOR ELECTRICAL CIRCUITING AND DIMMING/NON-DIMMING CONTROL ZONES. PROVIDE QUANTITY OF ELECTRICAL CIRCUITS AS NOTED ON PLANS.
6. PROVIDE #10 AWG FOR ALL BRANCH CIRCUITS EXCEEDING 100 FEET IN LENGTH.
7. UTILIZE MC CABLE FOR ALL LIGHTING BRANCH CIRCUITS. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. CONTRACTOR SHALL COORDINATE THE CONDUCTOR SIZING FOR ALL CABLES INCLUDED IN MULTI-CIRCUIT MC, UTILIZE APPROPRIATE DERATING FACTORS AS DICTATED BY CODE.
8. ALL BRANCH CIRCUITS AND FEEDERS SHALL BE ROUTED ABOVE THE HUNG CEILING, TIGHT TO THE UNDERSIDE OF THE STRUCTURAL SLAB. CONTRACTOR SHALL PROVIDE INDEPENDENT SUPPORT, AS REQUIRED BY CODE, FOR ALL MC CABLE RUNS. MC CABLE SHALL BE SUPPORTED AS TO NOT ALLOW FOR SAGGING OF FEEDERS AND/OR BRANCH CIRCUITS.
9. ALL ELECTRICAL CONDUIT, CABLE TRAY, MC CABLE, ETC. ROUTED EXPOSED OR ABOVE BAFFLED OR PERFORATED CEILINGS SHALL BE PAINTED 'P-5', UNLESS OTHERWISE DICTATED BY CODE. FINAL PAINT COLOR TO BE COORDINATED WITH ARCHITECT.
10. ALL JUNCTION BOXES SHALL BE LOCATED IN ACCESSIBLE LOCATIONS.
11. ALL EXIT SIGNS ON THIS FLOOR SHALL BE CIRCUITED TO EMERGENCY LIGHTING PANEL CS-EM-DBH-01-2#7.
12. REFER TO DETAILS ON DRAWING E-712 FOR LOCAL LIGHTING CONTROL SWITCHING AND OCCUPANCY SENSOR OVERRIDES.
13. REFER TO ARCHITECTURAL STAIR AND ESCALATOR ELEVATIONS FOR EXACT QUANTITIES AND LOCATIONS OF LIGHTING FIXTURES.

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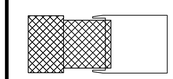
KEY PLAN



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6		PRELIMINARY DOB SUBMISSION	12.19.2014

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PROJECT NUMBER
14073.N.000

TITLE
ELECTRICAL LIGHTING PLAN FIXED BUILDING LEVEL 02

DRAWING NO.
E-202.00

B-SCAN NO.
EN-206.01

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AUTHORIZATION
Date: 07/15/2016
NYC Development Hub

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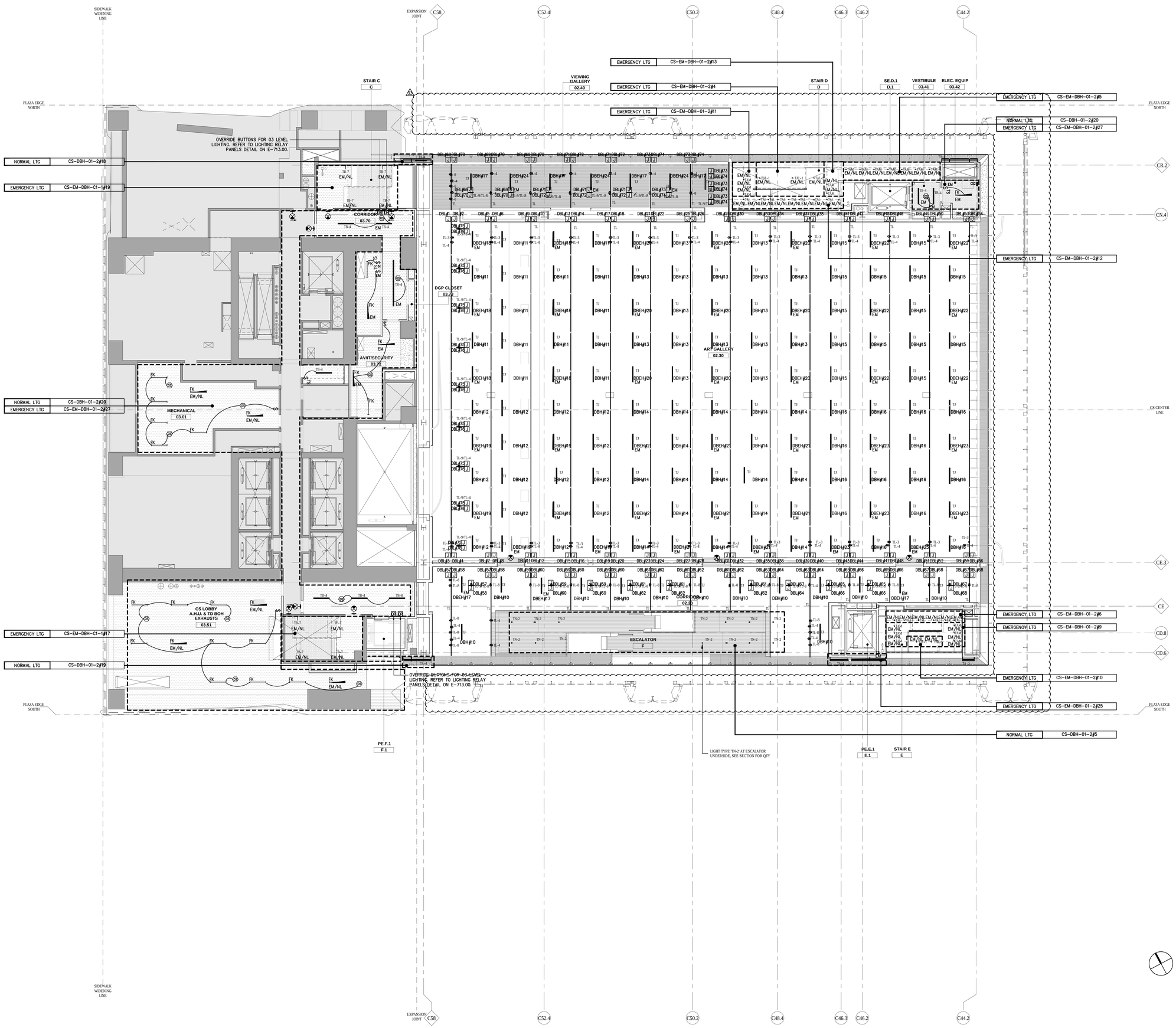
DEPT OF BLDGS 421302297 Job Number
E5300892510 Scan Code



NOTES

1. REFER TO DRAWING E-001 FOR SYMBOL LIST.
2. REFER TO DRAWING E-002 FOR LIGHTING FIXTURE SCHEDULE.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT QUANTITY, LOCATION AND DIMENSIONS FOR ALL LIGHTING FIXTURES.
4. REFER TO LIGHTING CONSULTANTS DOCUMENTS FOR EXACT LIGHTING FIXTURE SPECIFICATIONS, LIGHTING CONTROL REQUIREMENTS, LIGHTING DIMMING ZONING, ETC.
5. ZONING DENOTED ON PLANS ARE FOR ELECTRICAL CIRCUITING AND DIMMING/NON-DIMMING CONTROL ZONES. PROVIDE QUANTITY OF ELECTRICAL CIRCUITS AS NOTED ON PLANS.
6. PROVIDE #10 AWG FOR ALL BRANCH CIRCUITS EXCEEDING 100 FEET IN LENGTH.
7. UTILIZE MC CABLE FOR ALL LIGHTING BRANCH CIRCUITS. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. CONTRACTOR SHALL COORDINATE THE CONDUCTOR SIZING FOR ALL CABLES INCLUDED IN MULTI-CIRCUIT MC, UTILIZE APPROPRIATE DERATING FACTORS AS DICTATED BY CODE.
8. ALL BRANCH CIRCUITS AND FEEDERS SHALL BE ROUTED ABOVE THE HUNG CEILING, TIGHT TO THE UNDERSIDE OF THE STRUCTURAL SLAB. CONTRACTOR SHALL PROVIDE INDEPENDENT SUPPORT, AS REQUIRED BY CODE, FOR ALL MC CABLE RUNS. MC CABLE SHALL BE SUPPORTED AS TO NOT ALLOW FOR SAGGING OF FEEDERS AND/OR BRANCH CIRCUITS.
9. ALL ELECTRICAL CONDUIT, CABLE TRAY, MC CABLE, ETC. ROUTED EXPOSED OR ABOVE BAFFLED OR PERFORATED CEILINGS SHALL BE PAINTED "P-5", UNLESS OTHERWISE DICTATED BY CODE. FINAL PAINT COLOR TO BE COORDINATED WITH ARCHITECT.
10. ALL JUNCTION BOXES SHALL BE LOCATED IN ACCESSIBLE LOCATIONS.
11. ALL EXIT SIGNS ON THIS FLOOR SHALL BE CIRCUITED TO EMERGENCY LIGHTING PANEL CS-EM-DBH-01-2#27.
12. REFER TO DETAILS ON DRAWING E-712 FOR LOCAL LIGHTING CONTROL SWITCHING AND OCCUPANCY SENSOR OVERRIDES.
13. REFER TO ARCHITECTURAL STAIR AND ESCALATOR ELEVATIONS FOR EXACT QUANTITIES AND LOCATIONS OF LIGHTING FIXTURES.

CIRCUIT DESIGNATION KEY

DBL#X = CS-DBL-04-1#X
DBH#X = CS-DBH-01-2#X
DBEH#X = CS-EM-DBH-01-2#X

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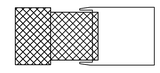

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PROJECT NUMBER
14073.N.000

TITLE

ELECTRICAL LIGHTING PLAN FIXED BUILDING LEVEL 03

DRAWING NO.
E-203.00

B-SCAN NO.

EN-207.01

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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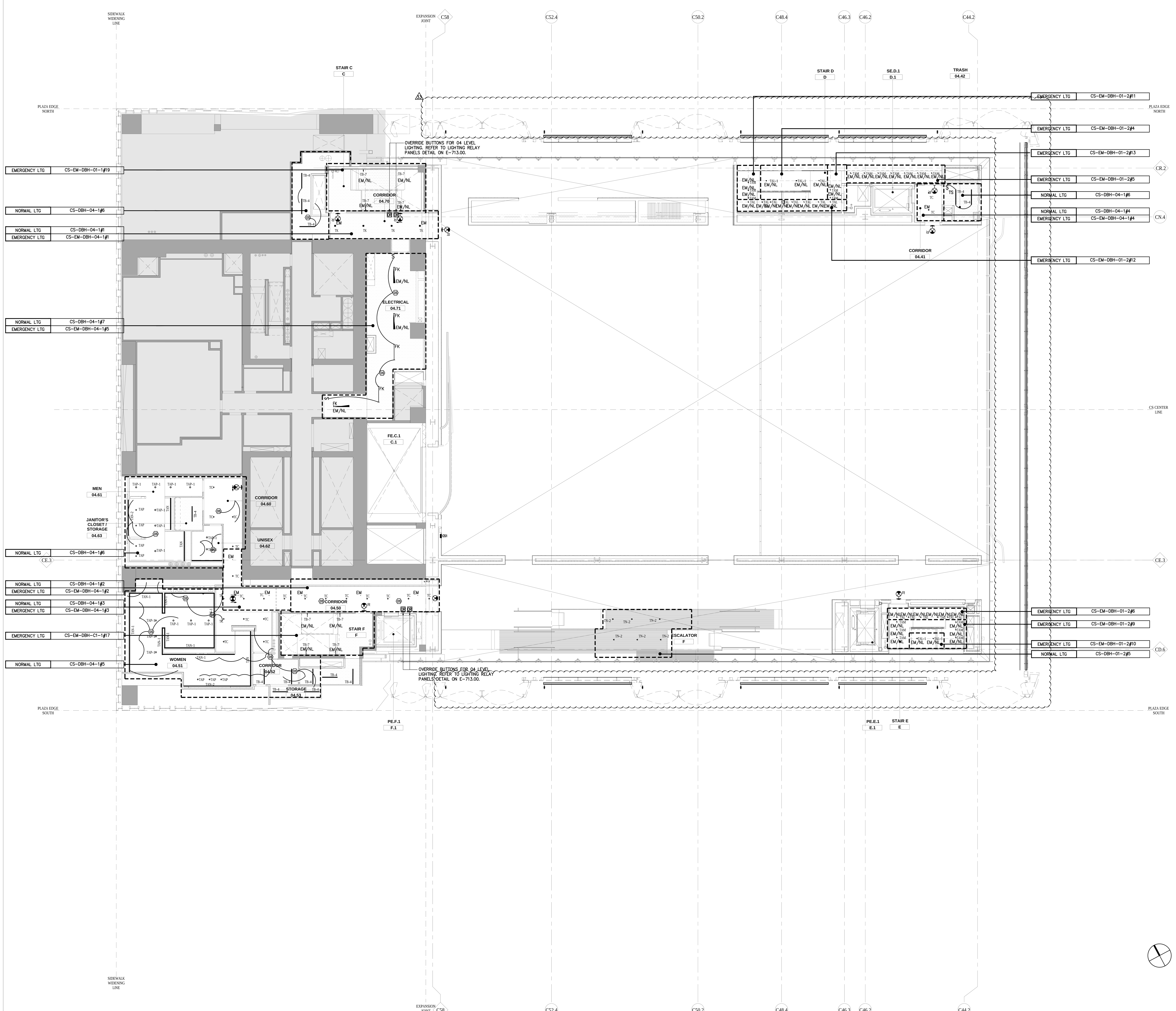
ES201083974 Scan Code



NOTES

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2. REFER TO DRAWING E-002 FOR LIGHTING FIXTURE SCHEDULE.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT QUANTITY, LOCATION AND DIMENSIONS FOR ALL LIGHTING FIXTURES.
4. REFER TO LIGHTING CONSULTANTS DOCUMENTS FOR EXACT LIGHTING FIXTURE SPECIFICATIONS, LIGHTING CONTROL REQUIREMENTS, LIGHTING DIMMING ZONING, ETC.
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10. ALL JUNCTION BOXES SHALL BE LOCATED IN ACCESSIBLE LOCATIONS.
11. ALL EXIT SIGNS ON THIS FLOOR SHALL BE CIRCUITED TO EMERGENCY LIGHTING PANEL CS-EM-DBH-04-1#6.
12. REFER TO DETAILS ON DRAWING E-712 FOR LOCAL LIGHTING CONTROL SWITCHING AND OCCUPANCY SENSOR OVERRIDES.
13. REFER TO ARCHITECTURAL STAIR AND ESCALATOR ELEVATIONS FOR EXACT QUANTITIES AND LOCATIONS OF LIGHTING FIXTURES.

Damian Titus
Buildings
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AMENDED APPLICATION
Date: 07/15/2016
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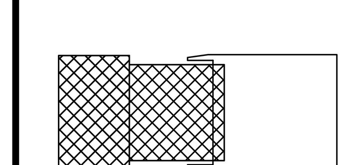

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PROJECT NUMBER
14073.N.000

TITLE
ELECTRICAL LIGHTING PLAN FIXED BUILDING LEVEL 04

DRAWING NO.
E-204.00

B-SCAN NO.
EN-208.01

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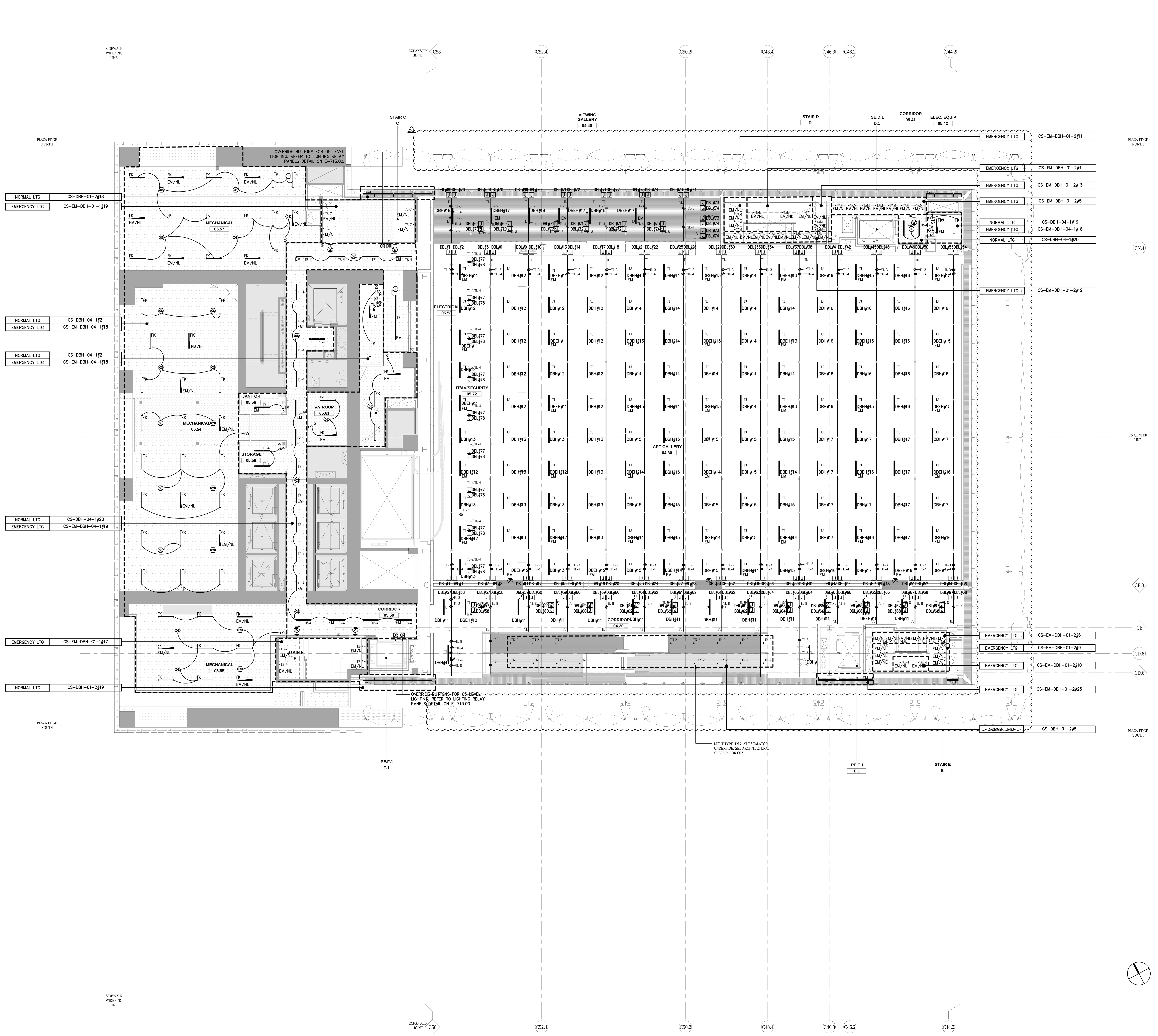

NOTES

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2. REFER TO DRAWING E-002 FOR LIGHTING FIXTURE SCHEDULE.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT QUANTITY, LOCATION AND DIMENSIONS FOR ALL LIGHTING FIXTURES.
4. REFER TO LIGHTING CONSULTANTS DOCUMENTS FOR EXACT LIGHTING FIXTURE SPECIFICATIONS, LIGHTING CONTROL REQUIREMENTS, LIGHTING DIMMING ZONING, ETC.
5. ZONING DENOTED ON PLANS ARE FOR ELECTRICAL CIRCUITING AND DIMMING/NON-DIMMING CONTROL ZONES. PROVIDE QUANTITY OF ELECTRICAL CIRCUITS AS NOTED ON PLANS.
6. PROVIDE #10 AWG FOR ALL BRANCH CIRCUITS EXCEEDING 100 FEET IN LENGTH.
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10. ALL JUNCTION BOXES SHALL BE LOCATED IN ACCESSIBLE LOCATIONS.
11. ALL EXIT SIGNS ON THIS FLOOR SHALL BE CIRCUITED TO EMERGENCY LIGHTING PANEL CS-EM-DBH-04-1#20.
12. REFER TO DETAILS ON DRAWING E-712 FOR LOCAL LIGHTING CONTROL SWITCHING AND OCCUPANCY SENSOR OVERRIDES.
13. REFER TO ARCHITECTURAL STAIR AND ESCALATOR ELEVATIONS FOR EXACT QUANTITIES AND LOCATIONS OF LIGHTING FIXTURES.

CIRCUIT DESIGNATION KEY

DBL#X = CS-DBL-06-1#X
DBH#X = CS-DBH-04-1#X
DBEH#X = CS-DBEH-04-1#X

Damian Titus
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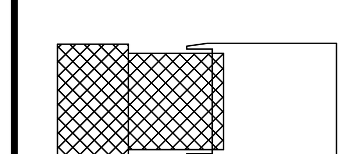

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PROJECT NUMBER
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TITLE
ELECTRICAL LIGHTING PLAN FIXED BUILDING LEVEL 05

DRAWING NO.
E-205.00

B-SCAN NO.
EN-209.01

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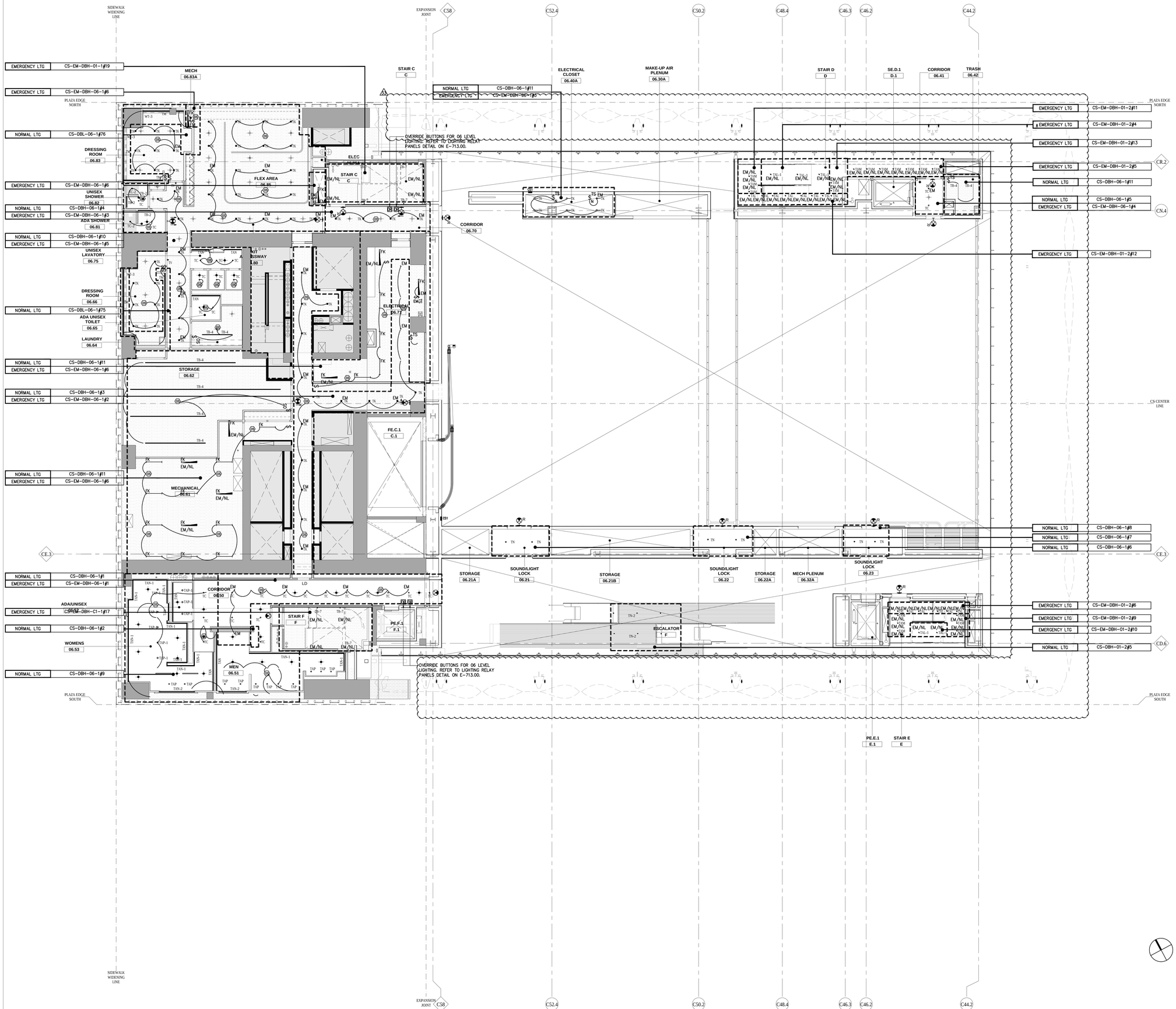
E370549456 Scan Code



LEGEND

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GENERAL NOTES

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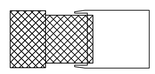
KEY PLAN



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19		DOB AMENDMENT 3	09.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

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PROJECT NUMBER
140713.N.000

TITLE

ELECTRICAL LIGHTING PLAN FIXED BUILDING LEVEL 06

DRAWING NO.

E-206.00

B-SCAN NO.

EN-210.01

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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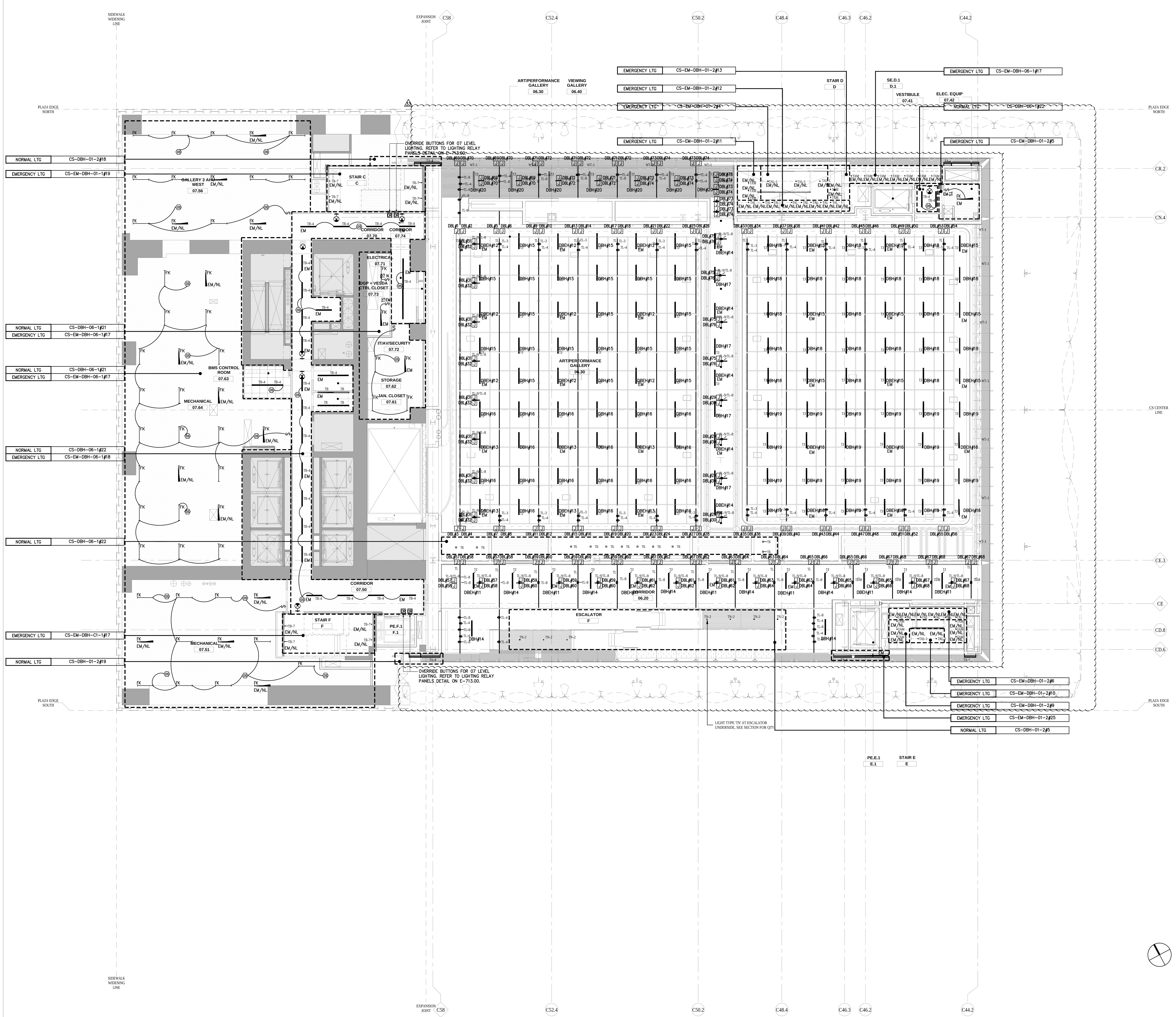
DEPT OF BLDGS 121192397 Job Number

ES970314616 Scan Code



NOTES

1. REFER TO DRAWING E-001 FOR SYMBOL LIST.
2. REFER TO DRAWING E-002 FOR LIGHTING FIXTURE SCHEDULE.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT QUANTITY, LOCATION AND DIMENSIONS FOR ALL LIGHTING FIXTURES.
4. REFER TO LIGHTING CONSULTANTS DOCUMENTS FOR EXACT LIGHTING FIXTURE SPECIFICATIONS, LIGHTING CONTROL REQUIREMENTS, LIGHTING DIMMING ZONING, ETC.
5. ZONING DENOTED ON PLANS ARE FOR ELECTRICAL CIRCUITING AND DIMMING/NON-DIMMING CONTROL ZONES. PROVIDE QUANTITY OF ELECTRICAL CIRCUITS AS NOTED ON PLANS.
6. PROVIDE #10 AWG FOR ALL BRANCH CIRCUITS EXCEEDING 100 FEET IN LENGTH.
7. UTILIZE MC CABLE FOR ALL LIGHTING BRANCH CIRCUITS. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. CONTRACTOR SHALL COORDINATE THE CONDUCTOR SIZING FOR ALL CABLES INCLUDED IN MULTI-CIRCUIT MC, UTILIZE APPROPRIATE DERATING FACTORS AS DICTATED BY CODE.
8. ALL BRANCH CIRCUITS AND FEEDERS SHALL BE ROUTED ABOVE THE HUNG CEILING, TIGHT TO THE UNDERSIDE OF THE STRUCTURAL SLAB. CONTRACTOR SHALL PROVIDE INDEPENDENT SUPPORT, AS REQUIRED BY CODE, FOR ALL MC CABLE RUNS. MC CABLE SHALL BE SUPPORTED AS TO NOT ALLOW FOR SAGGING OF FEEDERS AND/OR BRANCH CIRCUITS.
9. ALL ELECTRICAL CONDUIT, CABLE TRAY, MC CABLE, ETC. ROUTED EXPOSED OR ABOVE BAFFLED OR PERFORATED CEILINGS SHALL BE PAINTED 'P-5', UNLESS OTHERWISE DICTATED BY CODE. FINAL PAINT COLOR TO BE COORDINATED WITH ARCHITECT.
10. ALL JUNCTION BOXES SHALL BE LOCATED IN ACCESSIBLE LOCATIONS.
11. ALL EXIT SIGNS ON THIS FLOOR SHALL BE CIRCUITED TO EMERGENCY LIGHTING PANEL CS-EM-DBH-06-1#19.
12. REFER TO DETAILS ON DRAWING E-712 FOR LOCAL LIGHTING CONTROL SWITCHING AND OCCUPANCY SENSOR OVERRIDES.
13. REFER TO ARCHITECTURAL STAIR AND ESCALATOR ELEVATIONS FOR EXACT QUANTITIES AND LOCATIONS OF LIGHTING FIXTURES.

CIRCUIT DESIGNATION KEY

DBL#X = CS-DBL-08-1#X
DBH#X = CS-DBH-06-1#X
DBEH#X = CS-DBEH-06-1#X

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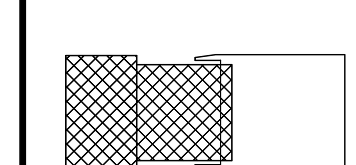

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Damian Titus
Buildings
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Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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PROJECT NUMBER
14073.N.000

TITLE

ELECTRICAL LIGHTING PLAN FIXED BUILDING LEVEL 07

DRAWING NO.
E-207.00

B-SCAN NO.

EN-211.01

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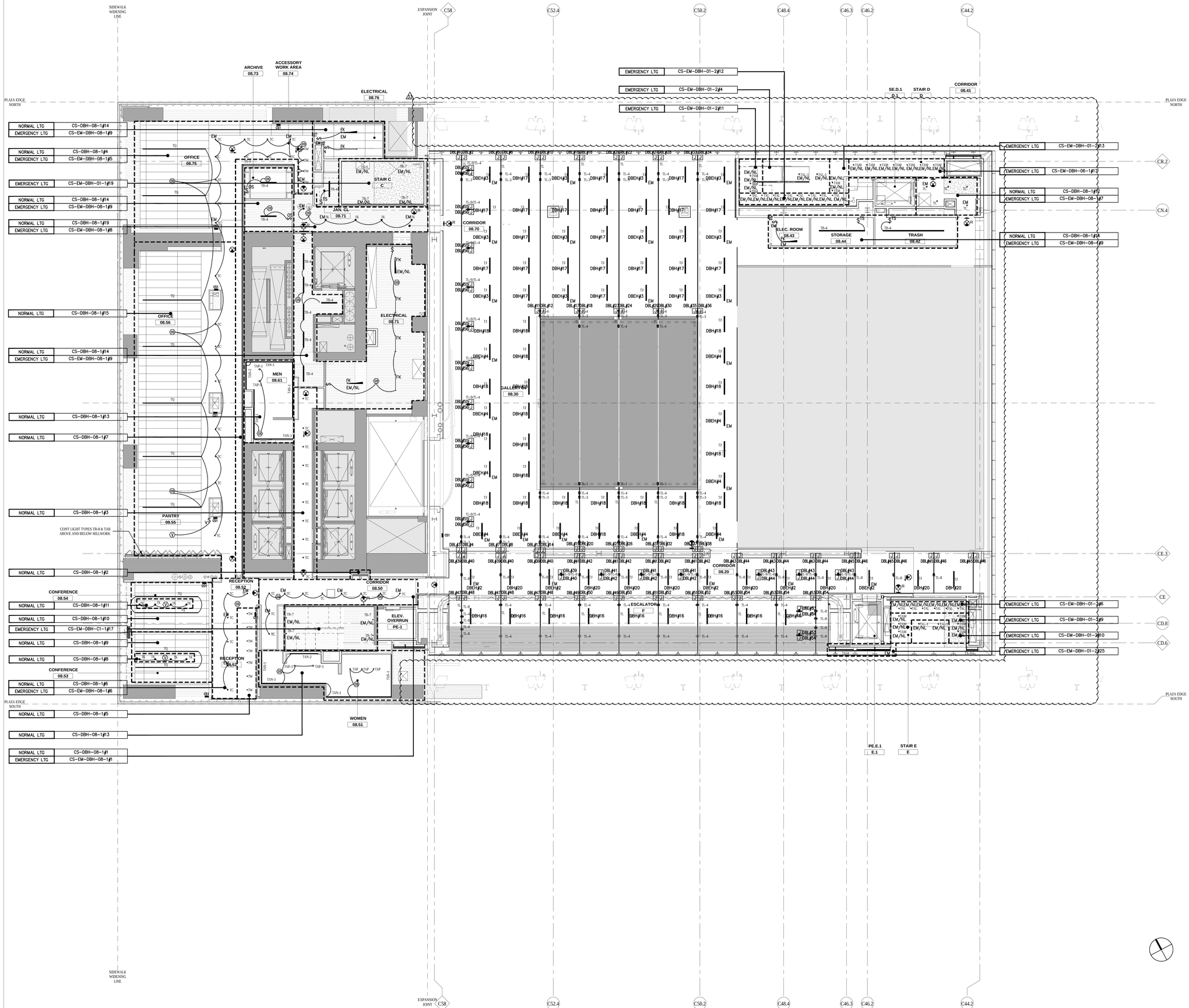
E500560728S Scan Code



NOTES

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2. REFER TO DRAWING E-002 FOR LIGHTING FIXTURE SCHEDULE.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT QUANTITY, LOCATION AND DIMENSIONS FOR ALL LIGHTING FIXTURES.
4. REFER TO LIGHTING CONSULTANTS DOCUMENTS FOR EXACT LIGHTING FIXTURE SPECIFICATIONS, LIGHTING CONTROL REQUIREMENTS, LIGHTING DIMMING ZONING, ETC.
5. ZONING DENOTED ON PLANS ARE FOR ELECTRICAL CIRCUITING AND DIMMING/NON-DIMMING CONTROL ZONES. PROVIDE QUANTITY OF ELECTRICAL CIRCUITS AS NOTED ON PLANS.
6. PROVIDE #10 AWG FOR ALL BRANCH CIRCUITS EXCEEDING 100 FEET IN LENGTH.
7. UTILIZE MC CABLE FOR ALL LIGHTING BRANCH CIRCUITS. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. CONTRACTOR SHALL COORDINATE THE CONDUCTOR SIZING FOR ALL CABLES INCLUDED IN MULTI-CIRCUIT MC, UTILIZE APPROPRIATE DERATING FACTORS AS DICTATED BY CODE.
8. ALL BRANCH CIRCUITS AND FEEDERS SHALL BE ROUTED ABOVE THE HUNG CEILING, TIGHT TO THE UNDERSIDE OF THE STRUCTURAL SLAB. CONTRACTOR SHALL PROVIDE INDEPENDENT SUPPORT, AS REQUIRED BY CODE, FOR ALL MC CABLE RUNS. MC CABLE SHALL BE SUPPORTED AS TO NOT ALLOW FOR SAGGING OF FEEDERS AND/OR BRANCH CIRCUITS.
9. ALL ELECTRICAL CONDUIT, CABLE TRAY, MC CABLE, ETC. ROUTED EXPOSED OR ABOVE BAFFLED OR PERFORATED CEILINGS SHALL BE PAINTED 'P-5', UNLESS OTHERWISE DICTATED BY CODE. FINAL PAINT COLOR TO BE COORDINATED WITH ARCHITECT.
10. ALL JUNCTION BOXES SHALL BE LOCATED IN ACCESSIBLE LOCATIONS.
11. ALL EXIT SIGNS ON THIS FLOOR SHALL BE CIRCUITED TO EMERGENCY LIGHTING PANEL CS-EM-DBH-08-1#10.
12. REFER TO DETAILS ON DRAWING E-712 FOR LOCAL LIGHTING CONTROL SWITCHING AND OCCUPANCY SENSOR OVERRIDES.
13. REFER TO ARCHITECTURAL STAIR AND ESCALATOR ELEVATIONS FOR EXACT QUANTITIES AND LOCATIONS OF LIGHTING FIXTURES.

CIRCUIT DESIGNATION KEY

DBL#X = CS-DBL-08-2#X
DBH#X = CS-DBH-08-1#X
DBEH#X = CS-EM-DBH-08-1#X

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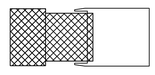

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PROJECT NUMBER
14073.N.000

TITLE
ELECTRICAL LIGHTING PLAN FIXED BUILDING LEVEL 08

DRAWING NO.
E-208A.00

B-SCAN NO.
EN-212.01

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
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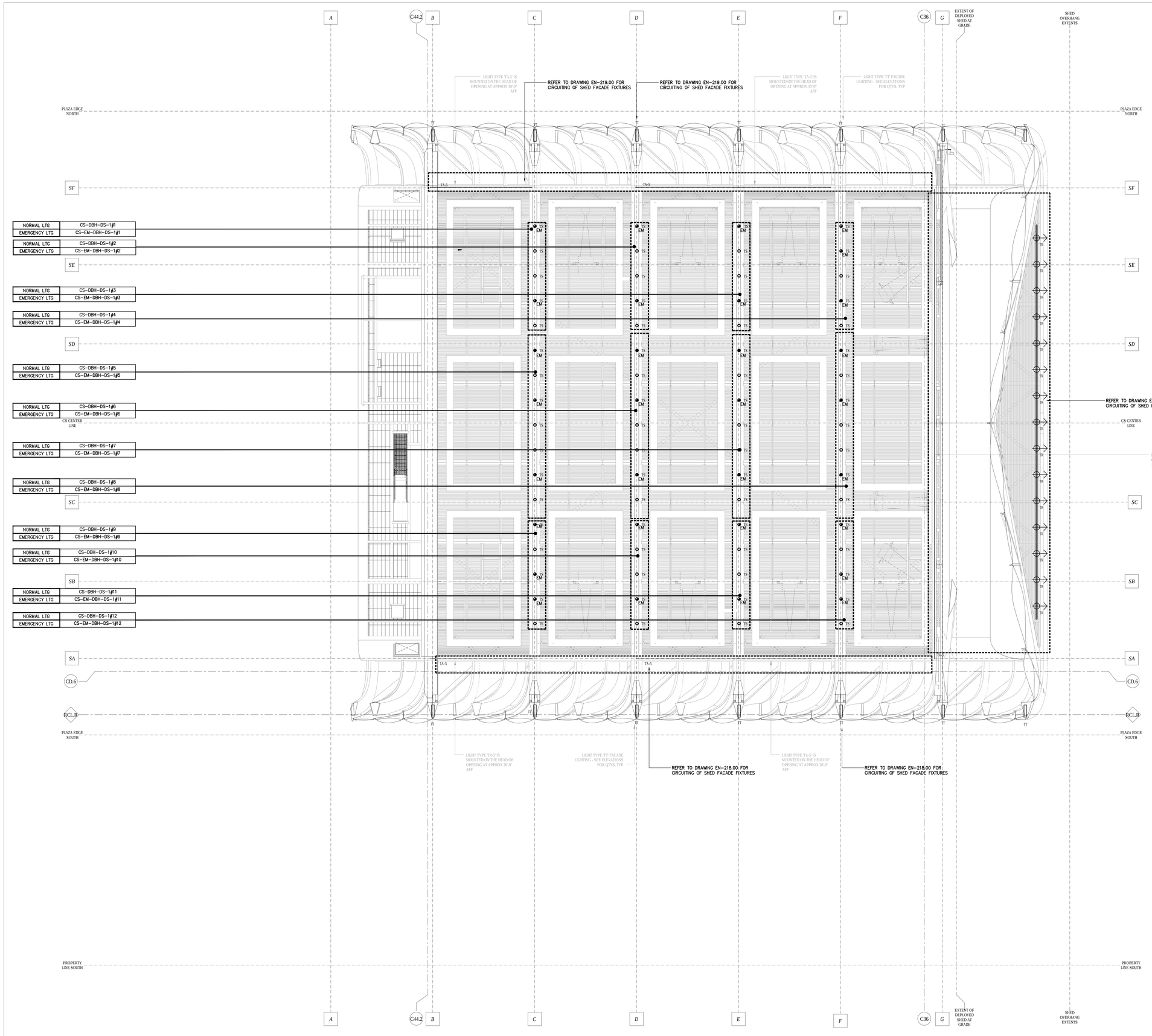
E350778837S Scan Code



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6. PROVIDE #10 AWG FOR ALL BRANCH CIRCUITS EXCEEDING 100 FEET IN LENGTH.
7. UTILIZE RIGID GALVANIZED STEEL (RGS) FOR ALL LIGHTING BRANCH CIRCUITS WITHIN THE SHED. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. CONTRACTOR SHALL COORDINATE THE CONDUCTOR SIZING FOR ALL CABLES INCLUDED IN MULTI-CIRCUIT FEEDERS, UTILIZE APPROPRIATE DERATING FACTORS AS DICTATED BY CODE.
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10. ALL JUNCTION BOXES SHALL BE LOCATED IN ACCESSIBLE LOCATIONS.

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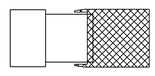

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PROJECT NUMBER
14073.N.000

TITLE
ELECTRICAL
LIGHTING PLAN
DEPLOYED SHED

DRAWING NO.
E-208B.00

B-SCAN NO.
EN-213.00

Damian Titus
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APPROVED
Under Directive 2 of 1975
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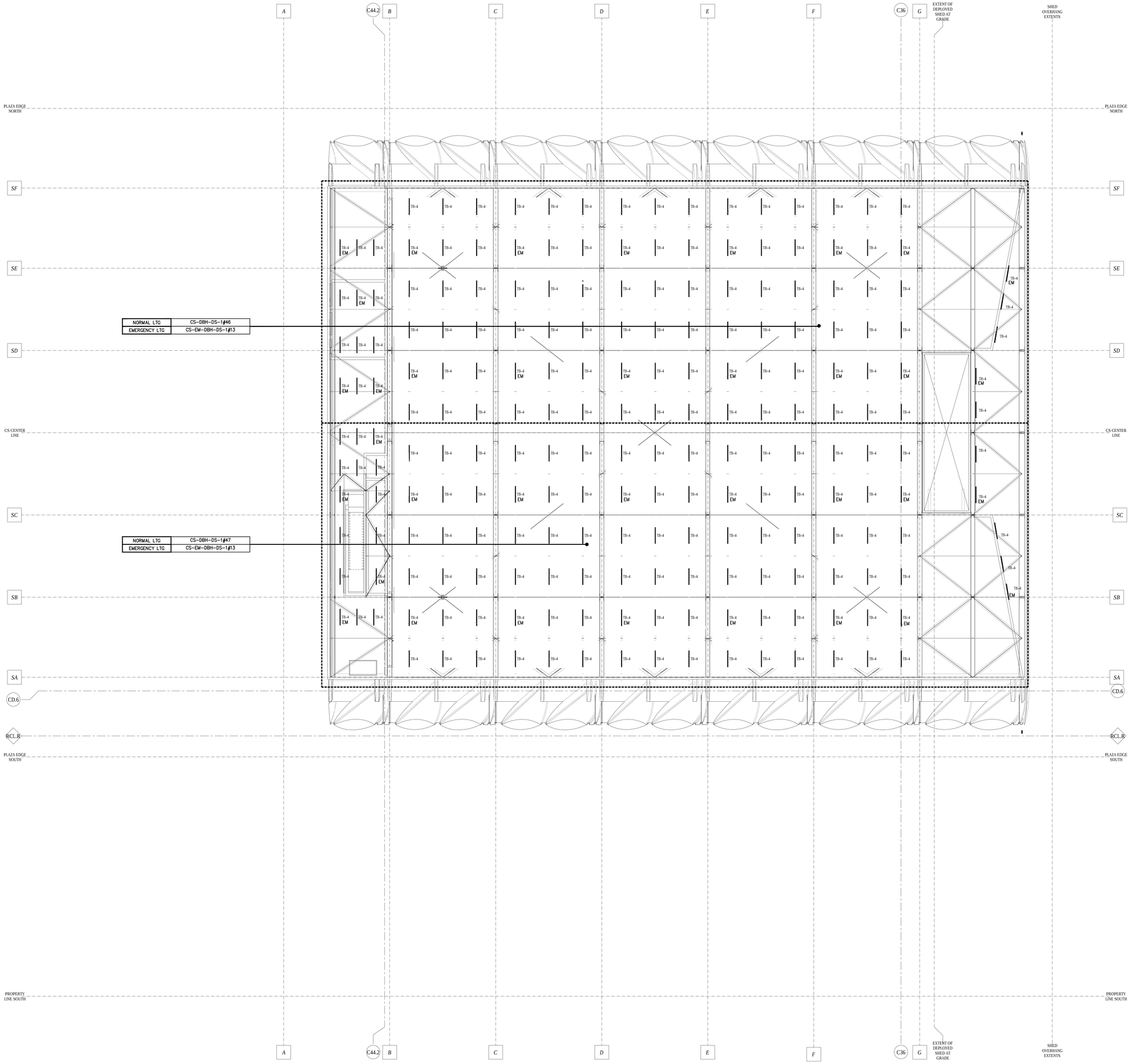

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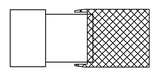

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PROJECT NUMBER
14073.N.000

TITLE

ELECTRICAL
LIGHTING PLAN DEPLOYED
SHED MECHANICAL DECK

DRAWING NO.
E-209B.00

B-SCAN NO.
EN-215.00

Damian Titus
Buildings
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AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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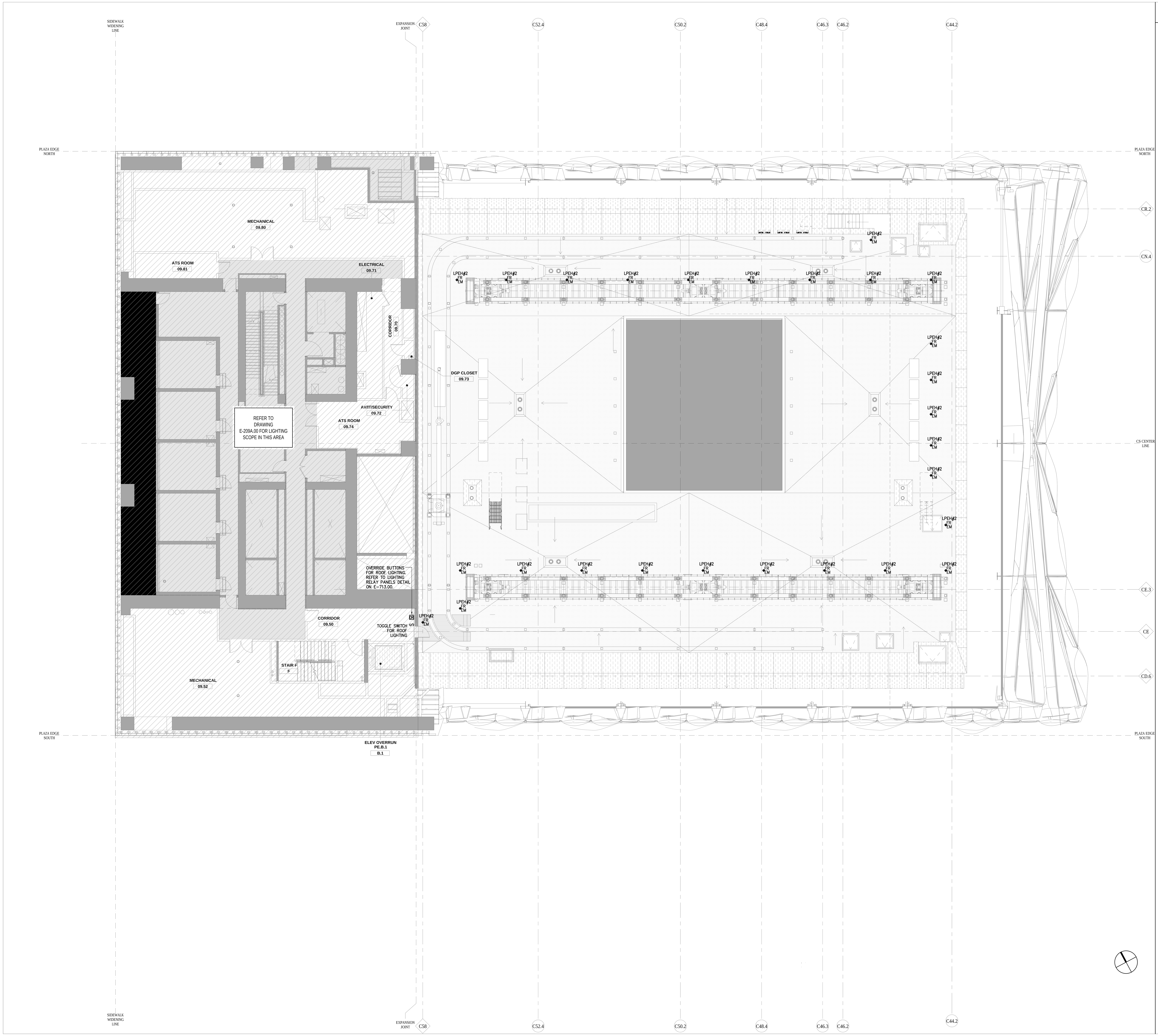

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7. UTILIZE RIGID GALVANIZED STEEL (RGS) FOR ALL BRANCH CIRCUITS FEEDING OUTDOOR LIGHTING LOCATED ON THE SHED ROOF. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. CONTRACTOR SHALL COORDINATE THE CONDUCTOR SIZING FOR ALL CABLES INCLUDED IN MULTI-CIRCUIT FEEDERS, UTILIZE APPROPRIATE DERATING FACTORS AS DICTATED BY CODE.
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10. ALL JUNCTION BOXES SHALL BE LOCATED IN ACCESSIBLE LOCATIONS.

CIRCUIT DESIGNATION KEY

LPEH#X = CS-EM-LPH-09-2#X

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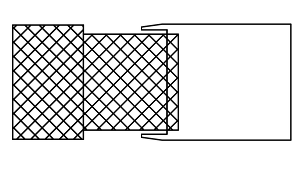

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Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWN BY
CHECKED BY

PROJECT NUMBER
14073.N.000

TITLE
ELECTRICAL LIGHTING PLAN FIXED BUILDING ROOF

DRAWING NO.
E-210.00

B-SCAN NO.
EN-216.00

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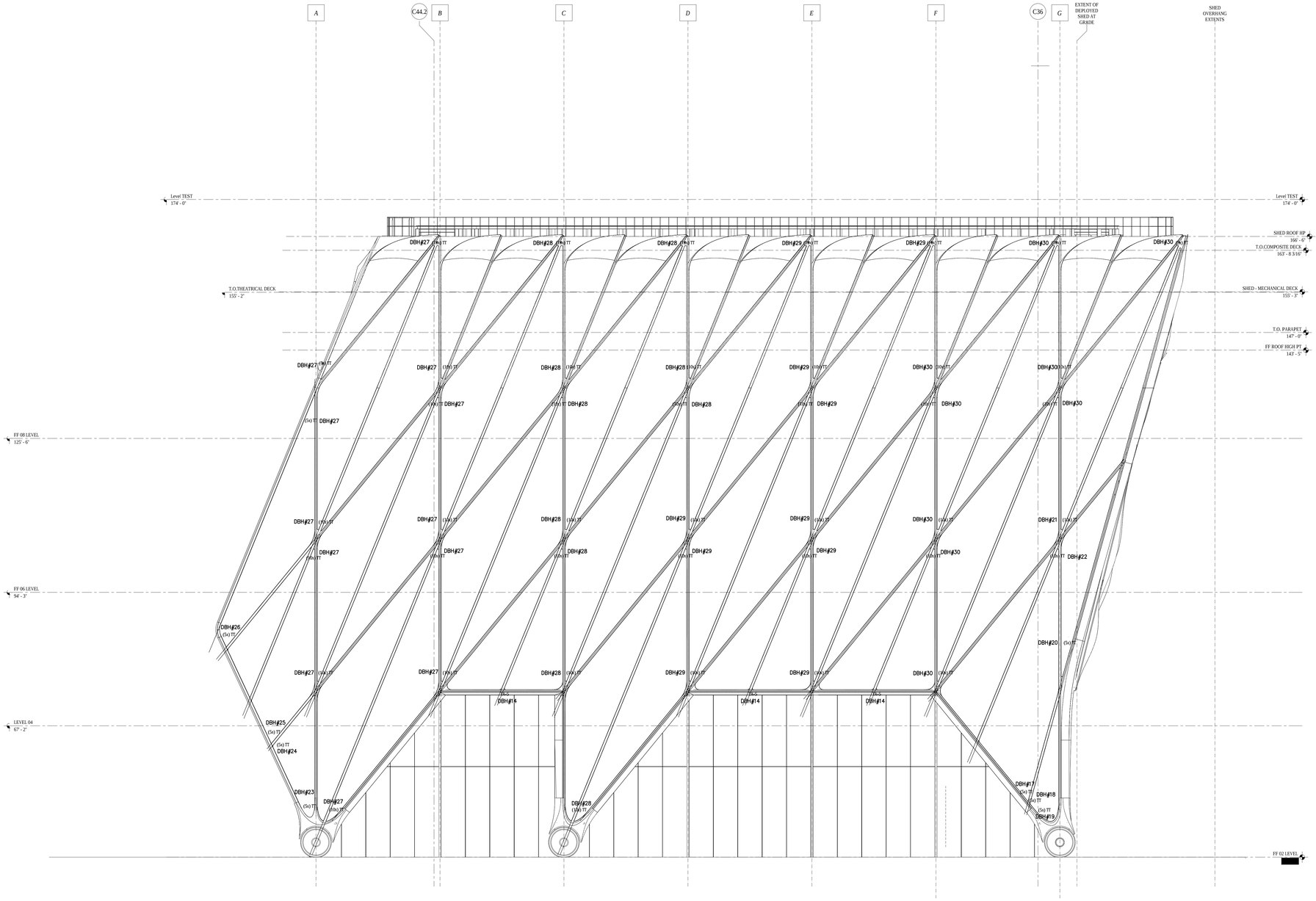

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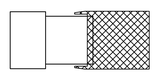

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PROJECT NUMBER
14073.N.000

TITLE

ELECTRICAL
LIGHTING PLAN DEPLOYED
SHED SOUTH ELEVATION

DRAWING NO.

E-261.00

B-SCAN NO.

EN-218.00

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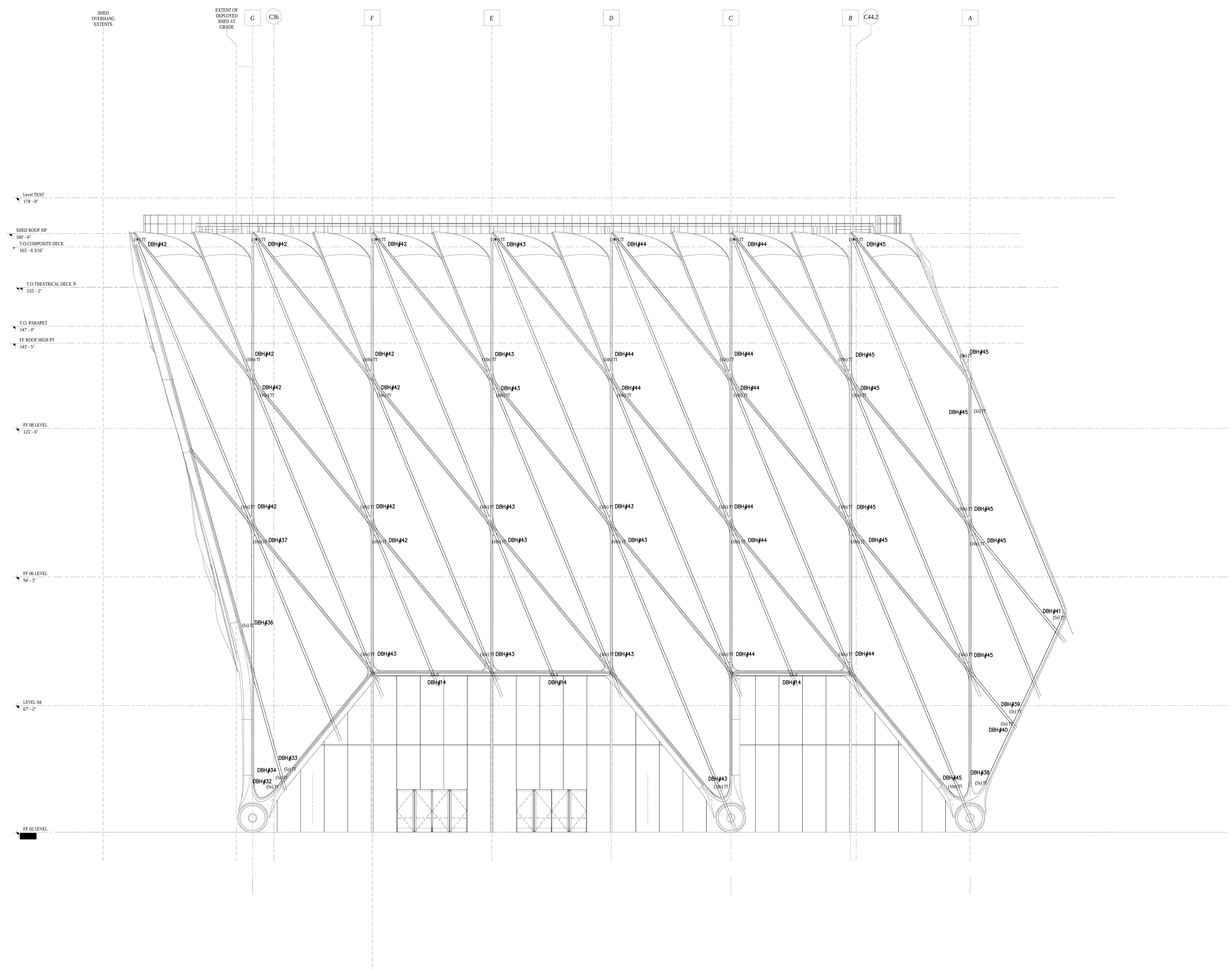

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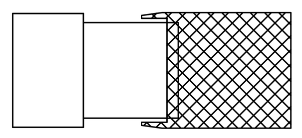

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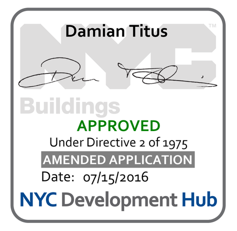

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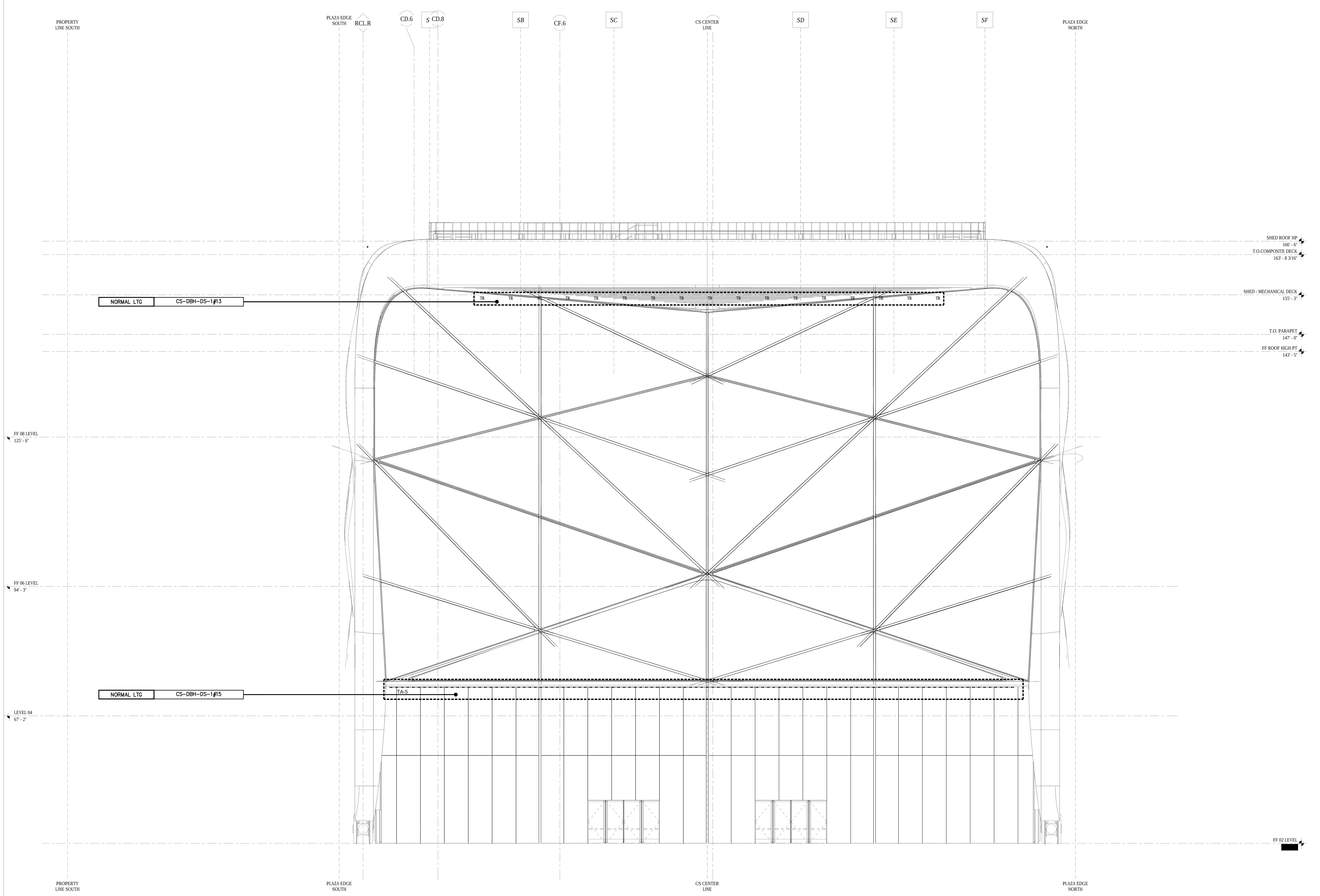

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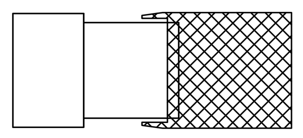

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LIGHTING PLAN DEPLOYED
SHED EAST ELEVATION

DRAWING NO.
E-263.00

B-SCAN NO.
EN-220.00

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EXIT PATH MARKINGS

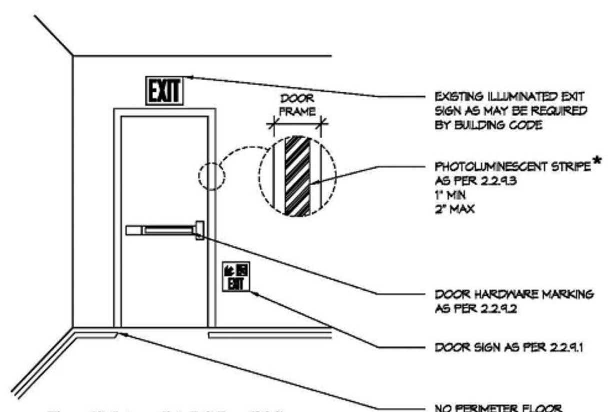


Figure 13 Intermediate Exit Door (2.2.9)
Showing door with push bar.

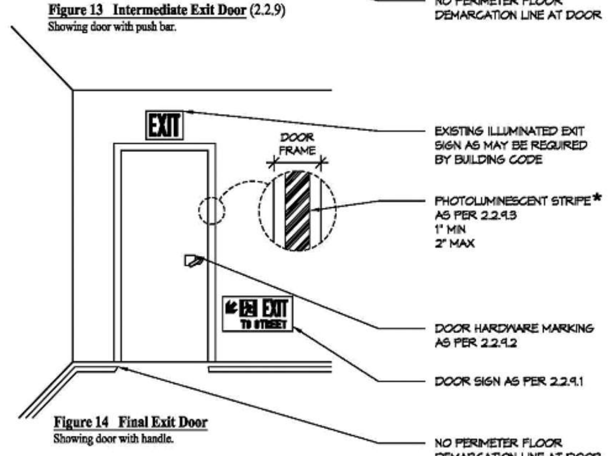


Figure 14 Final Exit Door
Showing door with handle.

** Editor's Note: The graphic in these sketches is intended only to differentiate the photoluminescent stripe from the door frame. This photoluminescent stripe shall not be zebra striped but must be solid and continuous as per §§ 2.2.9.3, 2.3.2, and 2.3.4.*

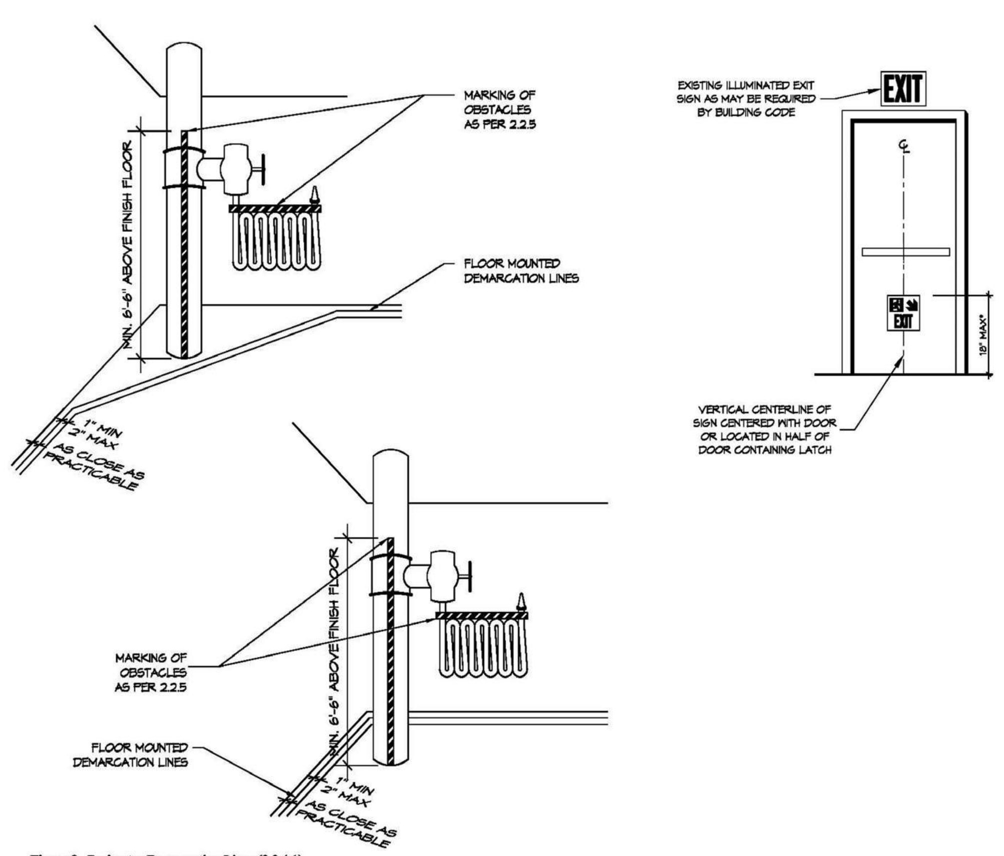


Figure 8 Perimeter Demarcation Lines (2.2.4.1)
Showing two options at obstacles for floor-mounted demarcation lines.

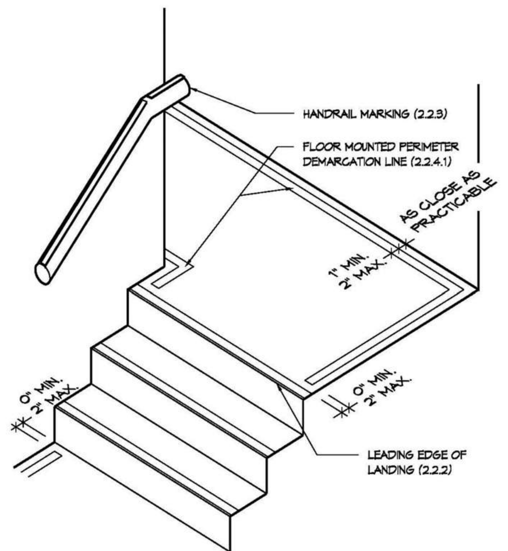


Figure 7 Perimeter Demarcation Lines (2.2.4.1)
Showing floor-mounted option.

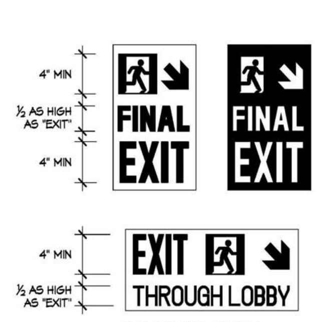


Figure 15 Final Exit Door Signs (2.2.9)
Showing various acceptable door signs for final exit doors

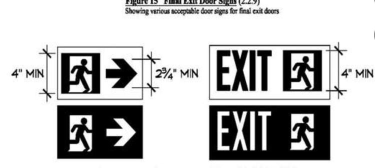


Figure 16 (2.2.6; 2.2.7; 2.3.1)
Showing positive and negative options for directional signs

Figure 17 (2.2.2.1; 2.3.1)
Showing positive and negative options for door-mounted door signs.

ASSOCIATED APPLICATIONS

CURRENT APPLICATION

WORK UNDER THIS APPLICATION IS FILED AS AN ALT 1.

LIST OF SEPARATE APPLICATIONS	NO.
FIRE ALARM	PENDING
EMERGENCY POWER (GENERATOR)	PENDING
STANDPIPE	PENDING
SPRINKLER	PENDING
FIRE PROTECTION	140195875
DEMOLITION	PENDING
BUILDER'S PAVEMENT PLAN	140195848
SITE SAFETY	PENDING

HY ADJACENT FILINGS	NO.
RETAIL PODIOM & TOWER A, 500 W 33RD ST	121186251
TOWER C, 501 W 30TH ST	121324290
TOWER D, 553 W 30TH ST	121184208
MINI-D (CALLED TOWER D IN ACTUAL DOCUMENTS), 553 W 30TH ST	121321193
PLATFORM, 530 W 33RD ST	121331763

INSPECTIONS

LIST OF SPECIAL INSPECTIONS	CODE/SECTION
FLOOD ZONE COMPLIANCE	BC G105
FIRE ALARM TEST	BC 907, BC 1704.13
PHOTOLUMINESCENT EXIT PATH MARKINGS	BC 1026.7
EMERGENCY POWER SYSTEMS	BC 1704.13, BC 2702
STRUCTURAL STEEL – WELDING	BC 1704.3.1
STRUCTURAL STEEL – ERECTION & BOLTING	BC 1704.3.2, BC 1704.3.3
CONCRETE – CAST-IN-PLACE	BC 1704.3.4
WALL PANELS, CURTAIN WALLS AND VENEERS	BC 1704.10
SPRAYED FIRE-RESISTANT MATERIALS	BC 1704.11
EXTERIOR INSULATION FINISH SYSTEMS	BC 1704.12
ALTERNATIVE MATERIALS–OTCR BUILDINGS BULLETIN #2009-019	BC 1704.13
SMOKE CONTROL SYSTEMS	BC 1704.14
- ATRIUM	
- STAIR PRESSURIZATION	
MECHANICAL SYSTEMS	BC 1704.15
STRUCTURAL SAFETY – STRUCTURAL STABILITY	BC 1704.19
SPRINKLER SYSTEMS	BC 1704.21
FIRE STANDPIPE SYSTEMS	BC 1704.22
HEATING SYSTEMS	BC 1704.23
CHIMNEYS	BC 1704.24
FIRESTOP SYSTEMS, DRAFTSTOP AND FIREBLOCK SYSTEMS	BC 1704.25
SEISMIC ISOLATION SYSTEMS	BC 1707.8
CONCRETE TEST CYLINDERS	BC 1905.6
CONCRETE DESIGN MIX	BC 1905.3

PROGRESS INSPECTION ITEMS	CODE/SECTION
FOOTING AND FOUNDATION	BC 109.3.1
LOWEST FLOOR ELEVATION	BC 109.3.2
ENERGY CODE INSPECTIONS	BC 109.3.5
FIRE RESISTANCE RATED CONSTRUCTION	BC 109.3.4
PUBLIC ASSEMBLY EMERGENCY LIGHTING	28-116.2.2
FINAL	28-116.2.2.4.2

ENERGY CODE PROGRESS INSPECTIONS (TABLE REFERENCE IN 1RCNY 5000-01(hh)(2)	CODE/SECTION
INSULATION PLACEMENT AND R-VALUES	IIA2
FENESTRATION THERMAL VALUES AND RATINGS	IIA3
FENESTRATION RATINGS FOR AIR LEAKAGE	IIA3
FENESTRATION AREAS	IIA4
AIR SEALING AND INSULATION - VISUAL	IIA6
VESTIBULES	IIA9
DAMPERS INTEGRAL TO BUILDING ENVELOPE	IIB2
HVAC AND SERVICE WATER HEATING EQUIPMENT	IIB3
HVAC AND SERVICE WATER HEATING SYSTEM CONTROLS	IIB4
DUCT PLENUM AND PIPING INSULATION AND SEALING	IIB5
DUCT LEAKAGE TESTING	IIB6
ELECTRICAL METERING	IIC1
INTERIOR LIGHTING POWER	IIC3
EXTERIOR LIGHTING POWER	IIC4
LIGHTING CONTROLS	IIC5
EXIT SIGNS	IIC6
TANDEM WIRING	IIC7
ELECTRICAL MOTORS	IIC8
MAINTENANCE INFORMATION	IID1

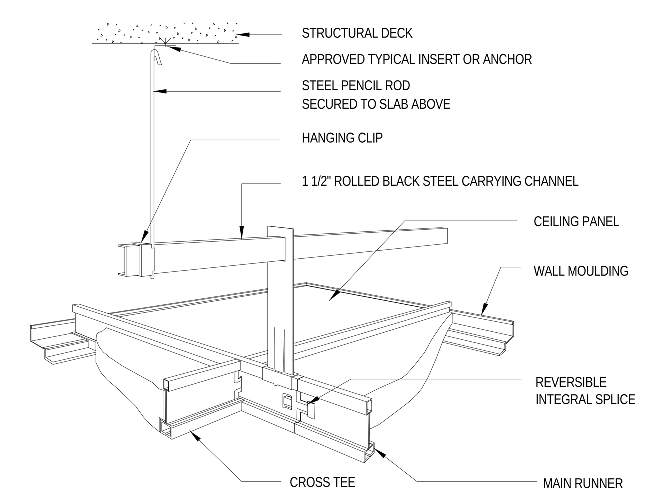
*FOR ADDITIONAL INFORMATION REGARDING SPECIAL, PROGRESS AND ENERGY INSPECTIONS, REFER TO STRUCTURAL, MECHANICAL, FIRE PROTECTION, ELECTRICAL AND FIRE ALARM DRAWINGS.

33

BUILDING POPULATION AND OCCUPANCIES

LEVEL	POPULATION	OCCUPANCIES	NET AREA_TOWER D	NET AREA_FIXED BLDG.	NET AREA_SHED
C1 LEVEL	10	F-2	602 SF	1693 SF	-
00 LEVEL	294	A-2, B, F-2, S-1, S-2	148 SF	13371 SF	-
01 LEVEL	247	B, F-2, S-2	254 SF	10598 SF	-
02 LEVEL	1017	A-3, F-2, S-2	479 SF	12641 SF	17088 SF
03 LEVEL	14	F-2, S-2	2597 SF	73 SF	-
04 LEVEL	442	A-3, B, F-2, S-2	1682 SF	11822 SF	-
05 LEVEL	24	F-2, S-2	5310 SF	73 SF	-
06 LEVEL	448	A-3, B, F-2, S-2	3270 SF	12555 SF	-
07 LEVEL	26	B, F-2, S-1, S-2	6443 SF	73 SF	-
08 LEVEL	599	A-2, A-3, B, F-2, S-2	5703 SF	12406 SF	-
09 LEVEL - ROOF/SHED & TH.GRIDIRON	77 *considered part of Level 09 for egress analysis	F-2, S-2	3124 SF	-	18545 SF
10 LEVEL	6	F-2	1925 SF	-	-
11 LEVEL	0	F-2	0 SF	-	-
67 LEVEL	5	F-2	750 SF	-	-
SUBTOTAL	3639	OCCUPANCY GROUP OF THE BLDG. MAIN USE- ASSEMBLY	32287 SF	75305 SF	35633 SF
TOTAL	4451				143225 SF

TYP SUSPENDED CEILING DETAIL



*ALL SUSPENDED CEILINGS SHALL BE INSTALLED PER APPENDIX R OF THE NEW YORK CITY CUILDING CODE.

APPROVED/ PENDING CONSTRUCTION CODE DETERMINATIONS

LIST OF APPROVED/PENDING CONSTRUCTION CODE DETERMINATIONS:

	TOPIC	APPROVAL STATUS	LAST DATE OF RESPONSE	CONTROL NO.
1.	HIGH LINE AS A PUBLIC WAY	APPROVED WITH CONDITIONS	10/23/2013	30907
2.	SHED PUBLIC ADDRESS SYS. IN LIEU OF VOICE ALARM SPEAKERS	APPROVED WITH CONDITIONS	12/16/2013	30908
3.	PERCENTAGE OF ETFE OPENINGS	APPROVED WITH CONDITIONS	11/20/2013	28774
4.	SHED EAST FACADE CAN BE 100% OPEN	APPROVED WITH CONDITIONS	01/03/2014	31836
5.	ALTERATION TYPE 1 FILING STRATEGY	APPROVED WITH CONDITIONS	06/09/2014	34345
6.	BOGIES	SUBMITTED	04/16/2014	
7.	SHED STEEL FIRE PROTECTION - 30FT AND ABOVE	SUBMITTED	04/16/2014	
8.	SMOKE VENTING STAIRS/ELEVATORS UNDER SHED	APPROVED WITH CONDITIONS	08/28/2014	35187
9.	SMOKE CONTROL SYSTEM	SUBMITTED	07/21/2014	

APPLICABLE CODES

APPLICABLE BUILDING CODES

1. ALL WORK SHALL COMPLY WITH THE NEW YORK CITY BUILDING CODE 2008.
2. ALL WORK SHALL COMPLY WITH LOCAL LAW 58 AND THE AMERICANS WITH DISABILITIES ACT ANSI A-117.1-2003 EDITION AS AMENDED, 2010 STANDARDDS FOR ACCESSIBLE DESIGN, TITLE III RULE OF THE AMERICANS DISABILITY ACT (ADA).
3. ALL WORK SHALL COMPLY THE NEW YORK CITY ZONING CODE.
4. ALL WORK SHALL COMPLY WITH THE NEW YORK CITY ENERGY CONSERVATION CODE, 2010.

CODE ANALYSIS AND DEPARTMENT OF BUILDINGS NOTES

CODE ANALYSIS

TOPIC	SUMMARY	CODE SECTION
OCCUPANCY CLASSIFICATIONS & SEPARATIONS		
PRIMARY BUILDING OCCUPANCY:	NON-SEPERATED MIXED USE	BC 303.1
ACCESSORY OCCUPANCIES:	GROUP A-1: ASSEMBLY THEATER, SYMPHONY AND CONCERT HALLS	
	GROUP A-2: ASSEMBLY DINING, BANQUET HALL)	BC 303.1
	GROUP A-3: ASSEMBLY (EXHIBITION HALLS, ART GALLERIES, MUSEUMS, INDOOR SKATING RINKS (WITHOUT SPECTATOR SEATING), CONFERENCE AND MULTIPURPOSE ASSEMBLY SPACES GREATER THAN 750 SF OR MORWITH MORE THAN 50 OCCUPANTS)	BC 303.1
	GROUP A-4: ARENAS SKATING RINKS, TENNIS COURTS, FASHION SHOWS AND OTHER ACTIVITIES/EVENTS WITH SPECTATOR SEATING	BC 303.1
	GROUP B: BUSINESS, OFFICES CONFERENCE AND MULTIPURPOSE ASSEMBLY SPACES LESS THAN 750SF OR WITH LESS THAN 50 OCCUPANTS	BC 304.1
	GROUP F-2: FACTORY INDUSTRIAL LOW HAZARD	BC 306.3
	GROUP M: MERCANTILE (RETAIL)	BC 309.1
	GROUP S-1: MODERATE-HAZARD STORAGE (COMBUSTIBLE) - SEPERATED FROM BUILDING BY 3HR RATING	BC 311.2
	GROUP S-2: LOW-HAZARD STORAGE (NON-COMBUSTIBLE, PARKING)	BC 311.3
SEPARATION BETWEEN OCCUPANCIES:	NON-SEPARATED MIXED USE	BC 508.3.2
	INCIDENTAL USE AREAS,MECHANICAL, ELEC. EQUIPMENT RMS, STORAGE RMS OVER 100 SF: 0 HOUR	TABLE 508.2
CONSTRUCTION CLASSIFICATION		
CONSTRUCTION TYPE	TYPE I-B – NONCOMBUSTIBLE CONSTRUCTION - ALL S-1 SPACES SEPERATED BY 3HR RATING	TABLE 601
	FLOOR ASSEMBLIES 2HR	
	STRUCTURAL FRAME ASSEMBLIES 2HR	
	ROOF ASSEMBLIES 1HR	
	BEARING WALLS 2HR	
	NON-BEARING INTERIOR WALLS 0HR	
STRUCTURAL OCCUPANCY:	CATEGORY III	TABLE 1604.5
HEIGHT OF BUILDING:	152.87'	BC 502.1
FIRE DISTRICT	BUILDING UNDER THIS APPLICATION IS WITHIN THE FIRE DEPARTMENT OF THE BOROUGH OF MANHATTAN	
MAXIMUM AREA:	GROUP A, TYPE I-B: UNLIMITED	TABLE 503
MAXIMUM HEIGHT:	GROUP A, TYPE I-B: UNLIMITED	TABLE 503
HIGH-RISE BUILDINGS	BUILDING HAS OCCUPIED FLOORS LOCATED > 75 FEET FROM THE LOWEST FIRE DEPARTMENT VEHICLE ACCESS LEVEL AND SHALL BE SUBJECT TO THE PROVISIONS OF HIGH-RISE BUILDING.	BC 403
	BUILDING SHALL BE EQUIPPED THROUGHOUT WITH AUTOMATIC SPRINKLER SYSTEM AS REQUIRED FOR HIGH-RISE BUILDING.	BC 403.2
	BUILDING SHALL BE EQUIPPED WITH AUTOMATIC FIRE DETECTION.	BC 403.5
	BUILDING SHALL BE EQUIPPED WITH EMERGENCY VOICE/ALARM COMMUNICATION SYSTEMS AS REQUIRED FOR HIGH-RISE BUILDING.	BC 403.6
	BUILDING SHALL BE EQUIPPED WITH FIRE DEPARTMENT COMMUNICATION SYSTEMS AS REQUIRED FOR HIGH-RISE BUILDING.	BC 403.7
	BUILDING SHALL HAVE A FIRE COMMAND.	BC 403.8
	ELEVATOR LOBBIES REQUIRED WHERE ELEVATORS OPEN ONTO A FIRE-RATED CORRIDOR.	BC 403.9.1.1
	ELEVATOR LOBBIES SHALL BE CONSTRUCTED AS SMOKE PARTITIONS.	BC 403.9.1.2
	ELEVATOR SHAFTS SHALL BE CONSTRUCTED WITH IMPACT RESISTANT WALLS.	BC 403.9.2
	BUILDING SHALL BE EQUIPPED WITH EMERGENCY POWER SYSTEMS.	BC 403.11
	STAIRWAY DOORS SHALL NOT BE LOCKED FROM EITHER SIDE EXCEPT AS ALLOWED WITH AN AUTOMATIC FAIL SAFE SYSTEM OR OTHERWISE SPECIFICALLY REVIEWED AND APPROVED BY THE COMMISSIONER PER BC 1008.1.8.6.	BC 403.12
	ALL STAIRWAYS SERVING FLOORS MORE THAN 75' ABOVE THE LOWEST LEVEL OF FIRE DEPARTMENT VEHICLE ACCESS SHALL BE CONSTRUCTED WITH SMOKEPROOF ENCLOSURES.	BC 403.13
	ALL STAIR ENCLOSURES SHALL BE CONSTRUCTED WITH IMPACT RESISTANT WALLS.	BC 403.15
	BUILDING SHALL HAVE EXIT PATH MARKINGS CONFORMING TO SECTION 1026.	BC 403.16
	BUILDING OUTDOOR AIR INTAKES SHALL BE LOCATED PER THE NEW YORK CITY MECHANICAL CODE SECTION 401.5.	BC 403.17
	BUILDING SHALL NOT USE OPEN WEB STEEL JOISTS.	BC 403.18
	BUILDING SHALL BE PROVIDED WITH AT LEAST ONE ELEVATOR COMPLYING WITH BC 1007.4 AS PER NEW YORK CITY BUILDING CODE.	BC 1007.2.1
MEANS OF EGRESS:	SEE LIFE SAFETY DRAWINGS.	CHAPTER 10
OCCUPANT LOAD:	SEE LIFE SAFETY DRAWINGS & BUILDING POPULATION AND OCCUPANCIES ON THIS SHEET	TABLE 1004.1.2
EXITS FROM FLOORS:	AT LEAST TWO ACCESSIBLE MEANS OF EGRESS SHALL BE PROVIDED TO EACH ACCESSIBLE PORTION OF THE SPACE.	BC 1007.1
REMOTENESS OF 2 EXITS	IN A FULLY-SPRINKLER BUILDING, THE SEPARATION DISTANCE OF THE EXIT DOORS OR EXIT ACCESS DOORWAYS SHALL NOT BE LESS THAN ONE-THIRD OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED MEASURED IN A STRAIGHT LINE BETWEEN EXIT DOORS OR EXIT ACCESS DOORWAYS.	BC 1014.2.1 (EXCP 2) BC 1014.2.1
REMOTENESS OF 3 OR MORE EXITS	TWO EXITS SHALL BE PLACE IN ACCORDANCE TO 1014.2.1, ADDITIONAL EXITS SHALL BE ARRANGED IN A REASONABLE DISTANCE APART SO THAT IF ONE BECOMES BLOCKED, THE OTHERS WILL BE AVAILABLE.	BC 1014.2.2
NUMBER OF EXITS	MINIMUM NUMBER OF EXITS: ALL ROOMS AND SPACES WITHIN EACH STORY SHALL BE PROVIDED WITH AND HAVE ACCESS TO THE MINIMUM NUMBER OF APPROVED INDEPENDENT EXITS AS REQUIRED BY TABLE 1018.1 BASED ON THE OCCUPANT LOAD OF SUCH STORY. OCCUPANT LOAD / MIN. NO. OF EXITS 1-500 / 2 501-1000 / 3 MORE THAN 1000 / 4	TABLE 1018.1
MAXIMUM TRAVEL DISTANCE:	TRAVEL DISTANCE IS MEASURED FROM THE MOST REMOTE POINT WITHIN A STORY TO THE ENTRANCE TO AN EXIT ALONG THE NATURAL AND UNOBSTRUCTED PATH OF EGRESS TRAVEL NOT EXCEEDING: GROUP A (NON-SMOKE PROTECTED) 150 FEET PRIMARY/250 FEET SECONDARY COMPLYING WITH 1024.7 (SPRINKLER) GROUP A (SMOKE PROTECTED) 200 FEET (SPRINKLER) GROUP B: 300 FEET (SPRINKLER) GROUP M, S-1: 200 FEET (SPRINKLER) GROUP F2, S-2: 250 FEET (SPRINKLER)	TABLE 1015.1
INTERIOR EGRESS STAIRS	WIDTH: NOT LESS THAN 44 INCHES. (SPRINKLER)	BC 1007.3 (EXCP 2)
		BC 1009.1
	CAPACITY: ALL OCCUPANCIES EXCEPT GROUP H (HAZARDOUS): 0.3 INCH PER OCCUPANT (NON-SMOKE PROTECTED)	BC 1005.1
	0.2 INCH PER OCCUPANT (SMOKE PROTECTED)	TABLE 1005.1
	HEADROOM: 84"	BC 1009.2
	LANDINGS: THERE SHALL BE A FLOOR OR LANDING AT THE TOP AND BOTTOM OF EACH STAIRWAY. THE WIDTH OF LANDINGS SHALL NOT BE LESS THAN THE WIDTH OF STAIRWAYS THEY SERVE. EVERY LANDING SHALL HAVE A MINIMUM DIMENSION MEASURED IN THE DIRECTION OF TRAVEL EQUAL TO THE WIDTH OF THE STAIRWAY. SUCH DIMENSION NEED NOT EXCEED 48" WHERE THE STAIRWAY HAS A STRAIGHT RUN.	BC 1009.4
	TREADS: MIN. 11"	BC 1009.3
	RISERS: MAX. 7"; MIN. 4"	BC 1009.3
	INTERMEDIATE HANDRAILS: INTERMEDIATE HANDRAILS ARE REQUIRED SO THAT ALL PORTIONS OF THE STAIRWAY WIDTH REQUIRED FOR EGRESS CAPACITY ARE WITHIN 30" OF A HANDRAIL. ON MONUMENTAL STAIRS, HANDRAILS SHALL BE LOCATED ALONG THE MOST DIRECT PATH OF EGRESS TRAVEL.	BC 1009.11.2
	ENCLOSURE RATING: 2-HOUR MINIMUM	
CORRIDORS:	INTERIOR CORRIDOR'S DEFINITION: A CORRIDOR THAT SERVES ONLY ONE TENANT.	BC 1002.1
	INTERIOR CORRIDOR RATING: • A,B,M,S= 0 HOUR	TABLE 1016.1.1
	PUBLIC CORRIDOR'S DEFINITION: A CORRIDOR THAT SERVES MORE THAN ONE TENANT.	BC 1002.1
	PUBLIC CORRIDOR RATING: • B = 0 HOUR (HIGH-RISE WITH SPRINKLER AND SMOKEPROOF STAIR ENCLOSURE) • A,M,S= 1 HOUR	TABLE 1016.1.2
	WIDTH: NOT LESS THAN 44 INCHES.	BC 1016.2
	CAPACITY: ALL OCCUPANCIES EXCEPT GROUP H (HAZARDOUS): 0.2 INCH PER OCCUPANT (NON SMOKE PROTECTED)	BC TABLE 1005.1
	CAPACITY: ALL OCCUPANCIES EXCEPT GROUP H (HAZARDOUS): 0.15 INCH PER OCCUPANT (SMOKE PROTECTED)	BC 1024.6.2
	DEAD ENDS: • GROUP B, F,S (SPRINKLER): 50 FEET MAX. • GROUP A, M AND S: 20 FEET MAX. • EXCEPTION: DEAD-END LENGTH NOT EXCEEDING 2.5 TIMES THE LEAST WIDTH OF THE DEAD-END CORRIDOR.	BC 1016.3
EGRESS DOOR:	WIDTH: THE MINIMUM WIDTH OF EACH DOOR OPENING SHALL BE SUFFICIENT FOR THE OCCUPANT LOAD THEREOF AND SHALL PROVIDE A CLEAR WIDTH OF NOT LESS THAN 32 INCHES.	BC 1008.1.1.1
	CAPACITY: ALL OCCUPANCIES EXCEPT GROUP H (HAZARDOUS): 0.2 INCH PER OCCUPANT (NON SMOKE PROTECTED)	TABLE 1005.1
	CAPACITY: ALL OCCUPANCIES EXCEPT GROUP H (HAZARDOUS): 0.15 INCH PER OCCUPANT (SMOKE PROTECTED)	BC 1024.6.2
PLUMBING FIXTURES	SEE DIAGRAMS FOR FIXTURES CALCULATIONS	BC TABLE 403.1
	LOCATION: THE REQUIRED TOILET FACILITIES SHALL BE LOCATED NOT MORE THAN ONE STORY ABOVE OR BELOW THE SPACE SERVICED AND THE PATH OF TRAVEL TO SUCH FACILITIES SHALL NOT EXCEED A DISTANCE OF 500 FEET.	BC 403.4.1 BC 403.6
	URINALS: SUBSTITUTION FOR WATER CLOSETS: IN EACH BATHROOM OR TOILET ROOM, URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS.	BC 419.2
	ALL SPACES TO BE VENTILATED PER. NYC MECHANICAL CODE.	
	FIRESTOPPING SHALL BE PROVIDED PER NYC BUILDING CODE.	BC 716.6.2
	SUSPENDED CEILINGS SHALL BE CONSTRUCTED PER NYC BUILDING CODE	

CODE ANALYSIS

TOPIC	SUMMARY	CODE SECTION
	EXIT SIGNS AND EMERGENCY LIGHTING SHALL BE PROVIDED PER NYC BUILDING CODE SECTION:	BC 1011.1
MATERIALS & FINISHES	ALL MATERIALS, ASSEMBLES, FORMS METHODS OF CONSTRUCTION AND EQUIPMENT SHALL COMPLY WITH NYC BUILDING CODE:	
	ALL INTERIOR FINISHES SHALL COMPLY WITH NYC BUILDING CODE SECTION:	BC 803.1
	ALL WOOD AND WOOD PRODUCTS SHALL BE FIRE TREATED IN ACCORDANCE WITH THE NYC BUILDING CODE SECTION AS FOLLOWS:	
	OCCUPANCY GROUP / FOR SPRINKLERED BUILDINGS: VERTICAL EXITS & PASSAGES / EXIT ACCESS & CORRIDORS / ROOMS & ENCLOSED SPACES A-1, A-2, A-3, A-4: B / B / C B, M: B / B / B F-2: B / C / C S-1, S-2: B / C / C	TABLE 803.5
	INTERIOR FINISHES ON WALLS AND CEILINGS SHALL HAVE A SMOKE DEVELOPED RANGE AS FOLLOWS: • EXITS, CORRIDORS : 25 • OCCUPANCY GROUP I : 50 • ROOMS IN WHICH THE NE FLOOR AREA PER OCCUPANT IS 10 SF OR LESS : 100	BC 803.1.1
	ALL DOORS SHALL BE NON-COMBUSTIBLE	
	ALL FIRE RATED DOORS SHALL BEAR THE LABEL OF THE BOARD OF STANDARDS AND APPEALS (BSA) OF THE MATERIALS, EQUIPMENT AND ACCEPTANCE DIVISION (MEA) OF NEW YORK CITY AND SHALL BE FIREPROOF SELF CLOSING (FPSC)	
	THE MAXIMUM UNDERCUT OF FPSC DOORS SHALL BE PER NFPA 80 STANDARDS (3/8" WITH SADDLE, 3/4" WITHOUT SADDLE)	
FIRE WALLS / PARTY WALLS	WALLS LOCATED ON A PROPERTY LINE SHALL BE CONSTRUCTED AS A FIRE WALL IN ACCORDANCE WITH BC 705	BC 705.1.1
	FIRE RESISTANCE RATING SHALL BE 3-HR AS LISTED FOR A, B, R, U, S-1	TABLE 705.4
	PROTECTED OPENING SIZES IN A FIRE WALL SHALL NOT BE LIMITED TO 120 SQFT PER BC 705.8 EXCEPTION 1 IN A SPRINKLERED BUILDING; CULTURE SHED AND TOWER D ARE BOTH SPRINKLERED BUILDINGS	BC 705.8
EXTERIOR WALLS FIRE RATING	REQUIRED FIRE RESISTANCE OF EXTERIOR WALL SHALL BE PER TABLE 601 & 602.	TABLE 601, 602
	NON-BEARING WALL	TABLE 602
	FOR CONSTRUCTION TYPE 1B OCCUPANCIES A, B, F-2, R, S-2 • <5' 1 HR • >5' <10' 1 HR • >10' <30' 1 HR • >30' 0 HR	TABLE 602
	ALL EXTERIOR WALLS ARE NON-BEARING UNDER THIS APPLICATION	
.SHAFT ENCLOSURE		
ESCALATOR SHAFT OPENING	SHAFT ENCLOSURES REQUIRED AT OPENINGS THROUGH A FLOOR/ CEILING ASSEMBLY	BC 707.2
	EXCEPTION 2: SHAFT ENCLOSURE IS NOT REQUIRED IN A BUILDING EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM FOR AN ESCALATOR OPENING OR STAIRWAY WHICH IS NOT A PORTION OF THE MEANS OF EGRESS. PROTECTED ACCORDING TO 2.1 OR 2.2	
	EXCEPTION:2.1: THE AREA OF THE FLOOR OPENING BETWEEN STORIES DOES NOT EXCEED TWICE THE HORIZONTAL PROJECTED AREA OR THE ESCALATOR AND THE OPENING IS PROTECTED BY A DRAFT CURTAIN AND CLOSELY SPACED SPRINKLERS IN ACCORDANCE WITH NFPA 13 AS MODIFIED IN APPENDIX Q. LIMITED TO OPENINGS THAT DO NOT CONNECT MORE THAN 4 STORIES	
STAIR G	EXCEPTION:2.2 OPENINGS PROTECTED BY AN APPROVED POWER OPERATED AUTOMATIC SHUTTER OF NON COMBUSTIBLE MATERIAL CONSISTING OF A FIRE RATING OR NOT LESS THAN 90 MIN.	
	SHAFT ENCLOSURES SHALL HAVE A RATING OF NOT LESS THAN 2 HR. WHERE PENETRATING 3 STORIES OR MORE, AND BE CONSTRUCTED AS FIRE BARRIERS.	BC 707.4
	OPENINGS IN SHAFTS SHALL BE PROTECTED PER SECTION 715	BC 707.7
	ELEVATOR HOISTWAY SHAFTS SHALL BE CONSTRUCTED PER BC 707.4	BC 707.13
ATRIUM (DEPLOYED SHED)	AN APPROVED AUTOMATIC SPRINKLER SHALL BE INSTALLED THROUGHOUT ENTIRE BUILDING	BC 404.3
	EXCEPTION 2 : WHERE THE CEILING OF THE ATRIUM IS MORE THAN 55 FEET ABOVE THE FLOOR, SPRINKLER PROTECTION AT THE CEILING OF THE ATRIUM IS NOT PROVIDED	
33	A SMOKE PROTECTION SYSTEM IS PROVIDED AS REQUIRED	BC 404.4
	ATRIUM SPACE SHALL BE SEPERATED FROM ADJACENT SPACES BY A 2 HR FIRE BARRIER	BC 404.5
	EXCEPTION 1 : A GLASS WALL FORMING A SMOKE PARTITION WHERE AUTOMATIC SPRINKLERS ARE SPACED 6' OR LESS ALONG BOTH SIDES OF THE SEPERATION WALL, OR ON THE ROOM SIDE ONLY IF THERE IS NOT A WALKWAY ON THE ATRIUM SIDE, AND BETWEEN 4" - 12" AWAY FROM THE GLASS AND SO DESIGNED THAT THE ENTIRE SURFACE OF THE GLASS IS WET UPON ACTIVATION OF THE SPRINKLER SYSTEM	
	THE GLASS SHALL BE INSTALLED IN A GASKET FRAME SO THAT THE FRAMING SYSTEM DEFLECTS WITHOUT BREAKING THE GLASS BEFORE THE SPRINKLER SYSTEM OPERATES	
	EXCEPTION 2 : THE ADJACENT SPACES OF ANY THREE FLOORS OF THE ATRIUM SHALL NOT BE REQUIRED TO BE SEPERATED FROM THE ATRIUM WHERE SUCH SPACES ARE INCLUDED IN COMPUTING THE ATRIUM VOLUME FOR THE DESIGN OF THE SMOKE CONTROL SYSTEM	
	EQUIPTMENT REQUIRED TO PROVIDE SMOKE CONTROL SHALL BE CONNECTED TO THE EMERGENCY POWER SYSTEM IN ACCORDANCE WITH BC 909.11	BC 404.6
	THE INTERIOR FINISH OF WALLS AND CEILINGS OF THE ATRIUM SHALL NOT BE LESS THAN CLASS B	BC 404.7
	BUILDING SHALL BE CONSTRUCTED AS TYPE 1B AS REQUIRED FOR ATRIUMS	BC 404.9

DEPARTMENT OF BUILDING NOTES

TOPIC	SUMMARY	CODE SECTION
BUILDING DEPARTMENT NOTES:	BUILDING SHALL BE RODENT PROOFED AS REQUIRED PER NYC BUILDING CODE.	APPENDIX F
	BUILDING SHALL BE CONSTRUCTED WITH FLOOD PROOF CONSTRUCTION IN ACCORDANCE WITH NYC BUILDING CODE AND ASCE 24-05 - SEE DRAWINGS	APPENDIX G
	ALL MECHANICAL EQUIPTMENT SHALL BE CONSTRUCTED, INSTALLED, AND MAINTAINED IN COMPLIANCE WITH THE 2008 NYC MECHANICAL CODE AND THE 2008 NYC FUEL GAS CODE, SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.	
	ALL PLUMBING SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NYC PLUMBING CODE, SEE PLUMBING DRAWINGS FOR MORE INFORMATION.	
	ALL STRUCTURAL ELEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NYC BUILDING CODE, SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.	
	ALL SOILS AND FOUNDATIONS SHALL BE CONSTRUCTED PER NYC BUILDING CODE, SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.	
	BUILDING IS DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NYC ENERGY CONSERVATION CODE, SEE ENERGY DRAWINGS.	

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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KEY PLAN

ISSUE		PRINTING	DATE
44	33	DOB AMENDMENT 5	04.08.2016
19		DOB AMENDMENT 3	09.16.2015
13		DOB AMENDMENT 1	08.03.2015
10	4	100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

STAMP

REGISTERED ARCHITECT RICARDO SCOFIDIO STATE OF NEW YORK 008800

DRAWN BY LH **CHECKED BY**

PROJECT NUMBER
11017

TITLE
BUILDING CODE NOTES

DRAWING NO.
A-003.01

B-SCAN NO.
A-003.01

291

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PLUMBING FIXTURE COUNT

LEVEL	OCCUPANCY	NUMBER OF OCCUPANTS	WATER CLOSETS REQUIRED/PROVIDED: NUMBER OF MALE	NUMBER OF FEMALE	LAVATORIES REQUIRED / PROVIDED: NUMBER OF MALE	NUMBER OF FEMALE	UNISEX WATER CLOSET / LAVATORY	DRINKING FOUNTAINS	OTHER	COMMENTS	AREA B OCCUPANCY
LEVEL C1	F-2	10	5	5	5 ppl / 100 = 0.05	5 ppl / 100 = 0.05	5 ppl / 100 = 0.05	5 ppl / 100 = 0.05	10 ppl / 400 = 0.025	0	FIXTURES PROVIDED AT LEVEL 00 ONE LEVEL AS ALLOWED PER 403.4.1	
FLOOR SUBTOTAL FOR LEVELS C1		10	5	5	0.05	0.05	0.05	0.05	0.025			
FIXTURES PROVIDED AT LEVEL C1					0	0	0	0	0	0 SERVICE SINKS		
	A-2	209	105	105	148 ppl / 75 = 1.40	148 ppl / 75 = 1.40	148 ppl / 200 = 0.525	148 / 200 = 0.525	209 ppl / 500 = 0.418			
	B*	40	20	20	(1 to 20 ppl) = 1	(1 to 20 ppl) = 1	(1 to 25 ppl) = 1	(1 to 25 ppl) = 1	40 ppl / 100 = 0.4	* CALCULATION BASED ON 1 PERSON/125 NET SQFT AS PER 403.1.F	4880 SF / 125 = 39.04	
	F-2	4	2	2	2 ppl / 100 = 0.02	2 ppl / 100 = 0.02	2 ppl / 100 = 0.02	2 ppl / 100 = 0.02	3 ppl / 400 = 0.01			
	S-1	13	7	7	7 ppl / 100 = 0.07	7 ppl / 100 = 0.07	7 ppl / 100 = 0.07	7 ppl / 100 = 0.07	13 ppl / 1000 = 0.013			
	S-2	16	8	8	8 ppl / 100 = 0.08	8 ppl / 100 = 0.08	8 ppl / 100 = 0.08	8 ppl / 100 = 0.08	8 ppl / 1000 = 0.016			
FLOOR SUBTOTAL FOR LEVELS 00		282	142	142	2.57	2.57	1.695	1.695	0.857			
FIXTURES PROVIDED AT LEVEL 00					9	10	4	1	2	2 SERVICE SINKS		
LEVEL 1	B*	49	25	25	(21 to 50 ppl) = 2	(21 to 50 ppl) = 2	(1 to 25 ppl) = 1	(1 to 25 ppl) = 1	49 ppl / 100 = 0.49	* CALCULATION BASED ON 1 PERSON/125 NET SQFT AS PER 403.1.F	6049 SF / 125 = 48.392	
	F-2	20	10	10	10 ppl / 100 = 0.10	10 ppl / 100 = 0.10	10 ppl / 100 = 0.10	10 ppl / 100 = 0.10	10 ppl / 400 = 0.050			
	S-2	12	6	6	6 ppl / 100 = 0.06	6 ppl / 100 = 0.06	6 ppl / 100 = 0.06	6 ppl / 100 = 0.06	12 ppl / 1000 = 0.012			
SUBTOTAL FOR LEVEL 01		81	41	41	2.16	2.16	1.16	1.16	0.552			
FIXTURES PROVIDED AT LEVEL 01					2	2	2	2	2	1 SERVICE SINK		
LEVEL 2	A-3	962	481	481	(for first 210) 210 ppl / 70 = 3.00	(for first 210) 210 ppl / 35 = 6.00	481 ppl / 200 = 2.41	481 ppl / 200 = 2.41	1014 ppl / 500 = 1.924	1		
					(for remainder) 271 ppl / 125 = 2.17	(for remainder) 271 ppl / 65 = 4.17	-	-	-			
	B	30	15	15	(1 to 20 ppl) = 1.00	(1 to 20 ppl) = 1	(1 to 25 ppl) = 1	(1 to 25 ppl) = 1	30 ppl / 100 = 0.3			
	F-2	1	1	1	1 ppl / 100 = 0.01	1 ppl / 100 = 0.01	1 ppl / 100 = 0.01	1 ppl / 100 = 0.01	1 ppl / 400 = 0.0025			
	S-2	2	1	1	1 ppl / 100 = 0.01	1 ppl / 100 = 0.01	1 ppl / 100 = 0.01	1 ppl / 100 = 0.01	2 ppl / 1000 = 0.002			
SUBTOTAL FOR LEVEL 02		995	498	498	6.19	11.19	3.43	3.43	2.23			
FIXTURES PROVIDED AT LEVEL 02					0	0	0	0	0	1 SERVCE SINK		
LEVEL 3	F-2	11	6	6	6 ppl / 100 = 0.06	6 ppl / 100 = 0.06	6 ppl / 100 = 0.06	6 ppl / 100 = 0.06	11 ppl / 400 = 0.0275	1		
	S-2	1	1	1	1 ppl / 100 = 0.01	1 ppl / 100 = 0.01	1 ppl / 100 = 0.01	1 ppl / 100 = 0.01	1 ppl / 1000 = 0.001			
SUBTOTAL FOR LEVEL 03		12	7	7	0.07	0.07	0.07	0.07	0.03			
FIXTURES PROVIDED AT LEVEL 03					0	0	0	0	0	1 SERVCE SINK		
LEVEL 4	A-3	392	196	196	(for first 210) 196 ppl / 70 = 2.80	(for first 210) 196 ppl / 35 = 5.60	196 ppl / 200 = 0.98	196 ppl / 200 = 0.98	392 ppl / 500 = 0.78	1		
	B	30	15	15	(1 to 20 ppl) = 1.00	(1 to 20 ppl) = 1.00	(1 to 25 ppl) = 1.00	(1 to 25 ppl) = 1.00	30 ppl / 100 = 0.30			
	F-2	2	1	1	1 ppl / 100 = 0.01	1 ppl / 100 = 0.01	1 ppl / 100 = 0.01	1 ppl / 100 = 0.01	2 ppl / 400 = 0.005			
	S-2	4	2	2	2 ppl / 100 = 0.02	2 ppl / 100 = 0.02	2 ppl / 100 = 0.02	2 ppl / 100 = 0.02	4 ppl / 1000 = 0.004			
SUBTOTAL FOR LEVEL 04		428	214	214	3.83	6.63	2.01	2.01	1.09			
FIXTURES PROVIDED AT LEVEL 04					8	13	3	4	2	1 SERVICE SINK		
LEVEL 5	F-2	25	13	13	13 ppl / 100 = 0.13	13 ppl / 100 = 0.13	13 ppl / 100 = 0.13	13 ppl / 100 = 0.13	25 ppl / 400 = 0.06	1		
SUBTOTAL FOR LEVEL 05		25	13	13	0.13	0.13	0.13	0.13	0.06			
FIXTURES PROVIDED AT LEVEL 05					0	0	0	0	0	1 SERVCE SINK		
LEVEL 6	A-3	368	184	184	(for first 210) 184 ppl / 70 = 2.63	(for first 210) 184 ppl / 35 = 5.26	184 ppl / 200 = 0.92	184 ppl / 200 = 0.92	368 ppl / 500 = 0.736	0		
	B*	16	8	8	(1 to 20 ppl) = 1.00	(1 to 20 ppl) = 1.00	(1 to 25 ppl) = 1	(1 to 25 ppl) = 1	16 ppl / 100 = 0.16	* CALCULATION BASED ON 1 PERSON/125 NET SQFT AS PER 403.1.F	1906 SF / 125 = 15.25	
	F-2	7	4	4	4 ppl / 100 = 0.04	4 ppl / 100 = 0.04	4 ppl / 100 = 0.04	4 ppl / 100 = 0.04	7 ppl / 400 = 0.0175			
	S-2	8	4	4	4 ppl / 100 = 0.04	4 ppl / 100 = 0.04	4 ppl / 100 = 0.04	4 ppl / 100 = 0.04	8 ppl / 1000 = 0.008			
SUBTOTAL FOR LEVEL 06		399	200	200	3.71	6.34	2.00	2.00	1	0.92		
FIXTURES PROVIDED AT LEVEL 06					6	12	3	4	5	2	1 SERVCE SINK	
LEVEL 7	F-2	25	13	13	13 ppl / 100 = 0.13	13 ppl / 100 = 0.13	13 ppl / 100 = 0.13	13 ppl / 100 = 0.13	25 ppl / 400 = 0.0625	1		
	S-1	1	1	1	1 ppl / 100 = 0.01	1 ppl / 100 = 0.01	1 ppl / 100 = 0.01	1 ppl / 100 = 0.01	1 ppl / 1000 = 0.001			
SUBTOTAL FOR LEVEL 07		26	14	14	0.14	0.14	0.14	0.14	0.06			
FIXTURES PROVIDED AT LEVEL 07					0	0	0	0	0	1 SERVCE SINK		
LEVEL 08	A-2	305	153	153	153 ppl / 75 = 2.04	153 ppl / 75 = 2.04	153 ppl / 75 = 2.04	153 ppl / 75 = 2.04	305 ppl / 500 = 0.61	2		
	A-3	250	125	125	(for first 210) 125 ppl / 70 = 1.79	(for first 210) 125 ppl / 35 = 3.57	125 ppl / 200 = 0.63	125 ppl / 200 = 0.63	250 ppl / 500 = 0.50	0		
	B*	37	19	19	(1 to 20 ppl) = 1	(1 to 20 ppl) = 1	(1 to 25 ppl) = 1	(1 to 25 ppl) = 1	37 ppl / 100 = 0.37	* CALCULATION BASED ON 1 PERSON/125 NET SQFT AS PER 403.1.F	4608 SF / 125 = 36.86	
	F-2	4	2	2	2 ppl / 100 = 0.02	2 ppl / 100 = 0.02	2 ppl / 100 = 0.02	2 ppl / 100 = 0.02	4 ppl / 400 = 0.01			
	S-2	6	3	3	3 ppl / 100 = 0.03	3 ppl / 100 = 0.03	3 ppl / 100 = 0.03	3 ppl / 100 = 0.03	6 ppl / 1000 = 0.006			
SUBTOTAL FOR LEVEL 08		602	302	302	2.64	4.62	1.68	1.68	3.00	1.50		
FIXTURES PROVIDED AT LEVEL 08					3	4	2	2	3	2	1 SERVICE SINK	
LEVEL 9	F-2	76	38	38	38 ppl / 100 = 0.38	38 ppl / 100 = 0.38	38 ppl / 100 = 0.38	38 ppl / 100 = 0.38	76 ppl / 400 = 0.19	0		
SUBTOTAL FOR LEVEL 09		76	38	38	0.38	0.38	0.38	0.38	0.19			
FIXTURES PROVIDED AT LEVEL 09					0	0	0	0	0	0 SERVICE SINK		
LEVEL 10	F-2	7	4	4	4 ppl / 100 = 0.040	4 ppl / 100 = 0.040	4 ppl / 100 = 0.04	3 ppl / 100 = 0.04	7 ppl / 400 = 0.02	0		
SUBTOTAL FOR LEVEL 10		7	4	4	0.040	0.040	0.04	0.04	0.02			
FIXTURES PROVIDED AT LEVEL 10					0	0	0	0	0	0 SERVICE SINKS		
LEVEL 67	F-2	5	3	3	3 ppl / 100 = 0.030	3 ppl / 100 = 0.030	3 ppl / 100 = 0.03	3 ppl / 100 = 0.03	5 ppl / 400 = 0.01	0		
SUBTOTAL FOR LEVEL 67		5	3	3	0.030	0.030	0.03	0.03	0.01			
FIXTURES PROVIDED AT LEVEL 67					0	0	0	0	0	0 SERVICE SINKS		

BUILDING TOTALS		MALE WC	FEMALE WC	MALE LAV.	FEMALE LAV.	UNISEX WC/LAV.	DRINKING FOUNTAINS
	REQUIRED	22.072	34.288	12.75	12.75	6	7.52
	PROVIDED	28	41	14	16	13	10

PLUMBING FIXTURE COUNT 3

PLUMBING FIXTURE COUNT AFTER VERTICAL TRAVEL

LEVEL	LEVEL BEFORE TRAVEL	WATERCLOSETS: MALE	FEMALE	LAVATORIES: MALE	FEMALE	UNISEX WATER CLOSET / LAVATORY	DRINKING FOUNTAINS	OTHER
LEVEL 00								
	LEVEL 00	2.57	2.57	1.69	1.69	1	0.86	
	LEVEL 02	4.43	7.43	2.31	2.31	-	-	
FLOOR SUBTOTAL FOR LEVELS 00		7.00	10.00	4.00	4.00	1	0.857	
TOTAL REQUIRED (ROUNDED UP) FOR LEVEL 00		7	10	4	4	1	2	SERVICE SINK
FIXTURES PROVIDED AT LEVEL 00		9	10	4	4	1	2	SERVICE SINKS
LEVEL 1								
	LEVEL C1	0.05	0.05	0.05	0.05	0	0.025	
	LEVEL 01	2.16	2.16	1.16	1.16	0	0.552	
	LEVEL 02	-	-	-	-	1	1.08	
SUBTOTAL FOR LEVEL 01		2.21	2.21	1.21	1.21	1	1.657	
TOTAL REQUIRED (ROUNDED UP) FOR LEVEL 01		3	3	2	2	1	2	SERVICE SINK
FIXTURES PROVIDED AT LEVEL 01		2	2	2	2	3	2	SERVICE SINK
LEVEL 4								
	LEVEL 02	1.76	3.76	1.12	1.12	-	-	
	LEVEL 03	0.07	0.07	0.07	0.07	0	0.03	
	LEVEL 04	3.83	6.63	2.01	2.01	1	1.090	
SUBTOTAL FOR LEVEL 04		5.66	10.46	3.20	3.20	1	1.12	
TOTAL REQUIRED (ROUNDED UP) FOR LEVEL 04		6	11	4	4	1	2	SERVICE SINK
FIXTURES PROVIDED AT LEVEL 04		8	13	3	4	1	2	SERVICE SINK
LEVEL 6								
	LEVEL 05	0.13	0.13	0.13	0.13	0	0.06	
	LEVEL 06	3.71	6.34	2.00	2.00	1	0.92	
	LEVEL 07	0.14	0.14	0.14	0.14	0	0.06	
	LEVEL 08	-	0.62	-	-	-	-	
	LEVEL 09	0.38	0.38	0.38	0.38	0	0.190	
	LEVEL 10	0.04	0.04	0.04	0.04	0	0.020	
	LEVEL 67	0.03	0.03	0.03	0.03	0	0.010	
SUBTOTAL FOR LEVEL 06		4.43	7.68	2.72	2.72	1	1.260	
TOTAL REQUIRED (ROUNDED UP) FOR LEVEL 06		5	8	3	3	1	2	SERVICE SINK
FIXTURES PROVIDED AT LEVEL 06		6	12	3	4	4	2	SERVICE SINK
LEVEL 8								
	LEVEL 07	-	-	-	-	-	0.05	
	LEVEL 08	2.84	4.00	1.68	1.68	3	1.50	
SUBTOTAL FOR LEVEL 08		2.84	4.00	1.68	1.68	3.00	1.55	
TOTAL REQUIRED (ROUNDED UP) FOR LEVEL 08		3	4	2	2	3	2	SERVICE SINKS
FIXTURES PROVIDED AT LEVEL 08		3	4	2	2	3	2	SERVICE SINKS

BUILDING TOTALS	MALE WC	FEMALE WC	MALE LAV.	FEMALE LAV.	UNISEX WC/LAV.	DRINKING FOUNTAINS
	22.14	34.35	12.81	12.81	7.00	6.44
	28	41	14	16	12	10

PLUMBING FIXTURE AFTER TRAVEL COUNT 2

REQUIREMENTS PER FLOOR (SEE PLUMBING FIXTURE COUNT ABOVE)						VERTICAL TRAVEL			REQUIREMENTS AFTER VERTICAL TRAVEL PER FLOOR / PROVIDED (SEE PLUMBING FIXTURE AFTER TRAVEL COUNT ABOVE)								
FLOOR LEVEL	POPULATION / OCCUPANCY	MALE WC. FEMALE WC.	MALE LAV. FEMALE LAV.	UNISEX WC. &LAV.	DRINKING FOUNTAINS	ELEVATOR	STAIR C	ESCALATOR	WATER CLOSETS REQUIRED	WATER CLOSETS PROVIDED	LAVATORIES REQUIRED	LAVATORIES PROVIDED	UNISEX REQUIRED	UNISEX PROVIDED	DRINKING FOUNTAINS REQUIRED	DRINKING FOUNTAINS PROVIDED	COMPLIANCE
L 67	POPULATION: 5 OCCUPANCY: F-2*	REQ. MALE WC: 0.03 REQ. FEMALE WC: 0.03	REQ. MALE LAV: 0.03 REQ. FEMALE LAV: 0.03	REQ. UNISEX: 0.00	REQ. FOUNTAIN: 0.013												YES * LEVEL 09,10,67: PER PC 403.4.1 EXCEPTION 1, THE LOCATION AND MAXIMUM TRAVEL DISTANCE IN FACTORY AND INDUSTRIAL OCCUPANCIES ARE PERMITTED TO EXCEED ONE STORY AND 500', WITH APPROVAL BY THE COMMISSIONER.
L 10	POPULATION: 6 OCCUPANCY: F-2*	REQ. MALE WC: 0.03 REQ. FEMALE WC: 0.03	REQ. MALE LAV: 0.03 REQ. FEMALE LAV: 0.03	REQ. UNISEX: 0.00	REQ. FOUNTAIN: 0.010												YES * LEVEL 09,10,67: PER PC 403.4.1 EXCEPTION 1, THE LOCATION AND MAXIMUM TRAVEL DISTANCE IN FACTORY AND INDUSTRIAL OCCUPANCIES ARE PERMITTED TO EXCEED ONE STORY AND 500', WITH APPROVAL BY THE COMMISSIONER.
L 09	POPULATION: 77 OCCUPANCY: F-2*, S-2	REQ. MALE WC: 0.38 REQ. FEMALE WC: 0.38	REQ. MALE LAV: 0.38 REQ. FEMALE LAV: 0.38	REQ. UNISEX: 0.00	REQ. FOUNTAIN: 0.190												YES * LEVEL 09,10,67: PER PC 403.4.1 EXCEPTION 1, THE LOCATION AND MAXIMUM TRAVEL DISTANCE IN FACTORY AND INDUSTRIAL OCCUPANCIES ARE PERMITTED TO EXCEED ONE STORY AND 500', WITH APPROVAL BY THE COMMISSIONER.
L 08	POPULATION: 599 OCCUPANCY: A-2, A-3, B, F-2, S-2	REQ. MALE WC: 2.84 REQ. FEMALE WC: 4.62	REQ. MALE LAV: 1.68 REQ. FEMALE LAV: 1.68	REQ. UNISEX: 3.00	REQ. FOUNTAIN: 1.50				REQ. MALE WC: 2.84 REQ. FEMALE WC: 4.00	PRV. MALE WC: 3.00 PRV. FEMALE WC: 4.00	REQ. MALE LAV: 1.68 REQ. FEMALE LAV:	PRV. MALE LAV: 2.00 0.68. FEMALE LAV: 2.00	REQ. UNISEX: 3.00	PRV. UNISEX: 3.00	REQ. FOUNTAIN: 1.55	PRV. FOUNTAIN: 2.00	YES
L 07	POPULATION: 26 OCCUPANCY: F-2, S-1, S-2	REQ. MALE WC: 0.14 REQ. FEMALE WC: 0.14	REQ. MALE LAV: 0.14 REQ. FEMALE LAV: 0.14	REQ. UNISEX: 0.00	REQ. FOUNTAIN: 0.060												YES * LEVEL 07: FIXTURES ARE PROVIDED BY LEVEL 06 (1 FLIGHT VIA STAIR), AS PERMITTED UNDER PER PC 403.4.1.
L 06	POPULATION: 448 OCCUPANCY: A-3, B, F-2, S-2	REQ. MALE WC: 3.71 REQ. FEMALE WC: 6.34	REQ. MALE LAV: 2.0 REQ. FEMALE LAV: 2.0	REQ. UNISEX: 1.00	REQ. FOUNTAIN: 0.920	+ 0.223 DRINKING FOUNTAIN + 0.45 M WC. + 0.45 M LAV. + 0.45 F WC. + 0.45 F LAV.	+ 0.060 DRINKING FOUNTAIN + 0.14 M WC — + 0.14 M LAV. + 0.14 W WC — + 0.14 F LAV.	+ 0.62 F WC.	REQ. MALE WC: 4.43 REQ. FEMALE WC: 7.68	PRV. MALE WC: 6.00 PRV. FEMALE WC: 12.0	REQ. MALE LAV: 2.72 REQ. FEMALE LAV 2.72	PRV. MALE LAV: 3.00 PRV. FEMALE LAV: 4.00	REQ. UNISEX: 4.00	PRV. UNISEX: 5.00	REQ. FOUNTAIN: 1.26	PRV. FOUNTAIN: 2.00	YES
L 05	POPULATION: 24 OCCUPANCY: F-2, S-2	REQ. MALE WC: 0.13 REQ. FEMALE WC: 0.13	REQ. MALE LAV: 0.13 REQ. FEMALE LAV: 0.13	REQ. UNISEX: 0.00	REQ. FOUNTAIN: 0.060												YES * LEVEL 05: FIXTURES ARE PROVIDED BY LEVEL 06 & LEVEL 08 (1 FLIGHT VIA STAIR), AS PERMITTED UNDER PER PC 403.4.1.
L 04	POPULATION: 442 OCCUPANCY: A-3, B, F-2, S-2	REQ. MALE WC: 3.83 REQ. FEMALE WC: 6.63	REQ. MALE LAV: 2.01 REQ. FEMALE LAV: 2.01	REQ. UNISEX: 1.00	REQ. FOUNTAIN: 1.09		+ 0.03 DRINKING FOUNTAIN + 0.07 M WC — + 0.07 M LAV. + 0.07 F WC — + 0.07 F LAV.	+ 1.00 DRINKING FOUNTAIN + 1.76 M WC — + 1.12 M LAV. + 3.76 F WC — + 1.12 F LAV.	REQ. MALE WC: 5.66 REQ. FEMALE WC: 10.46	PRV. MALE WC: 8.00 PRV. FEMALE WC: 13.0	REQ. MALE LAV.: 3.20 REQ. FEMALE LAV: 3.20	PRV. MALE LAV: 3.00 PRV. FEMALE LAV: 4.00	REQ. UNISEX:1.00	PRV. UNISEX: 1.00	REQ. FOUNTAIN: 2.00	PRV. FOUNTAIN: 2.00	YES
L 03	POPULATION: 14 OCCUPANCY: F-2, S-2	REQ. MALE WC: 0.07 REQ. FEMALE WC: 0.07	REQ. MALE LAV: 0.07 REQ. FEMALE LAV: 0.07	REQ. UNISEX: 0.00	REQ. FOUNTAIN: 0.030												YES * LEVEL 03: FIXTURES ARE PROVIDED BY LEVEL 04 (1 FLIGHT VIA STAIR), AS PERMITTED UNDER PER PC 403.4.1.
L 02	POPULATION: 1017 OCCUPANCY: A-3, B, F-2, S-2	REQ. MALE WC: 6.19 REQ. FEMALE WC: 11.19	REQ. MALE LAV: 3.43 REQ. FEMALE LAV: 3.43	REQ. UNISEX: 1.00	REQ. FOUNTAIN: 2.23												YES * LEVEL 02: FIXTURES ARE PROVIDED BY LEVEL 00 AND LEVEL 03 (1 FLIGHT VIA ESCALATOR), AND LEVEL 03 (1 FLIGHT VIA STAIR), AS PERMITTED UNDER PER PC 403.4.1.
L 01	POPULATION: 247 OCCUPANCY: B, F-2, S-2	REQ. MALE WC: 2.16 REQ. FEMALE WC: 2.16	REQ. MALE LAV: 1.16 REQ. FEMALE LAV: 1.16	REQ. UNISEX: 0	REQ. FOUNTAIN: 0.552	+ 0.025 DRINKING FOUNTAIN + 0.05 M WC. + 0.05 M LAV. + 0.05 F WC. + 0.05 F LAV.	+ 1.008 DRINKING FOUNTAIN + 1 UNISEX		REQ. MALE WC: 2.21 REQ. FEMALE WC: 2.21	PRV. MALE WC: 2.00 PRV. FEMALE WC: 2.00	REQ. MALE LAV: 1.21 REQ. FEMALE LAV:1.21	PRV. MALE LAV: 2.00 PRV. FEMALE LAV: 2.00	REQ. UNISEX: 1	PRV. UNISEX: 3.00	REQ. FOUNTAIN: 1.837	PRV. FOUNTAIN: 2.00	YES * LEVEL 01: UNISEX FIXTURES COUNT TOWARD (1) MALE WC, AND (1) FEMALE WC, PER PC 403.1.1.
L 00	POPULATION: 294 OCCUPANCY: A-2, B, F-2, S-1, S-2	REQ. MALE WC: 2.57 REQ. FEMALE WC: 2.57	REQ. MALE LAV: 1.69 REQ. FEMALE LAV: 1.69	REQ. UNISEX: 1.00	REQ. FOUNTAIN: 0.857			+ 4.43 M WC — + 2.31 M LAV. + 7.43 F WC — + 2.31 F LAV.	REQ. MALE WC: 7.00 REQ. FEMALE WC: 10.0	PRV. MALE WC: 9.00 PRV. FEMALE WC: 10.0	REQ. MALE LAV: 4.00 REQ. FEMALE LAV: 4.00	PRV. MALE LAV: 4.00 PRV. FEMALE LAV: 4.00	REQ. UNISEX: 1.00	PRV. UNISEX: 1.00	REQ. FOUNTAIN: 1.087	PRV. FOUNTAIN: 2.00	YES
L C1	POPULATION: 10 OCCUPANCY: F-2*	REQ. MALE WC: 0.05 REQ. FEMALE WC: 0.05	REQ. MALE LAV: 0.05 REQ. FEMALE LAV: 0.05	REQ. UNISEX: 0.00	REQ. FOUNTAIN: 0.025												YES * LEVEL C1: FIXTURES ARE PROVIDED BY LEVEL 01 AS PERMITTED UNDER PER PC 403.4.1 EXCEPTION 1, WITH APPROVAL BY THE COMMISSIONER.

NOTE: LEVEL 00, 02,04, 06, 08 ARE 1 FLIGHT FROM EACH OTHER VIA MAIN PUBLIC CIRCULATION VIA ESCALATORS. PUBLIC ESCALATORS DO NOT HAVE LANDINGS AT LEVELS 01,03, 05, 07. PUBLIC PASSENGER ELEVATORS DO NOT STOP FOR PUBLIC USE AT LEVELS 03, 05, 07.

REQUIREMENTS PER FLOOR (SEE CHART ABOVE) + VERTICAL TRAVEL = REQUIREMENTS AFTER VERTICAL TRAVEL PER FLOOR / PROVIDED (SEE PLUMBING FIXTURE AFTER TRAVEL COUNT ABOVE)

PLUMBING FIXTURE DIAGRAM - REORGANIZED 1 — 1/32" = 1'-0"

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REGISTERED ARCHITECT RICARDO SCOFIDIO 008600 STATE OF NEW YORK

DRAWN BY LH
CHECKED BY MS

PROJECT NUMBER 11017

TITLE PLUMBING FIXTURE COUNT

Damian Titus
APPROVED
Under Directive 2 of 9975
AMENDED APPLICATION
Date: 07/31/2015
NYC Development Hub

DRAWING NO. A-005.01

B-SCAN NO. A-005.01

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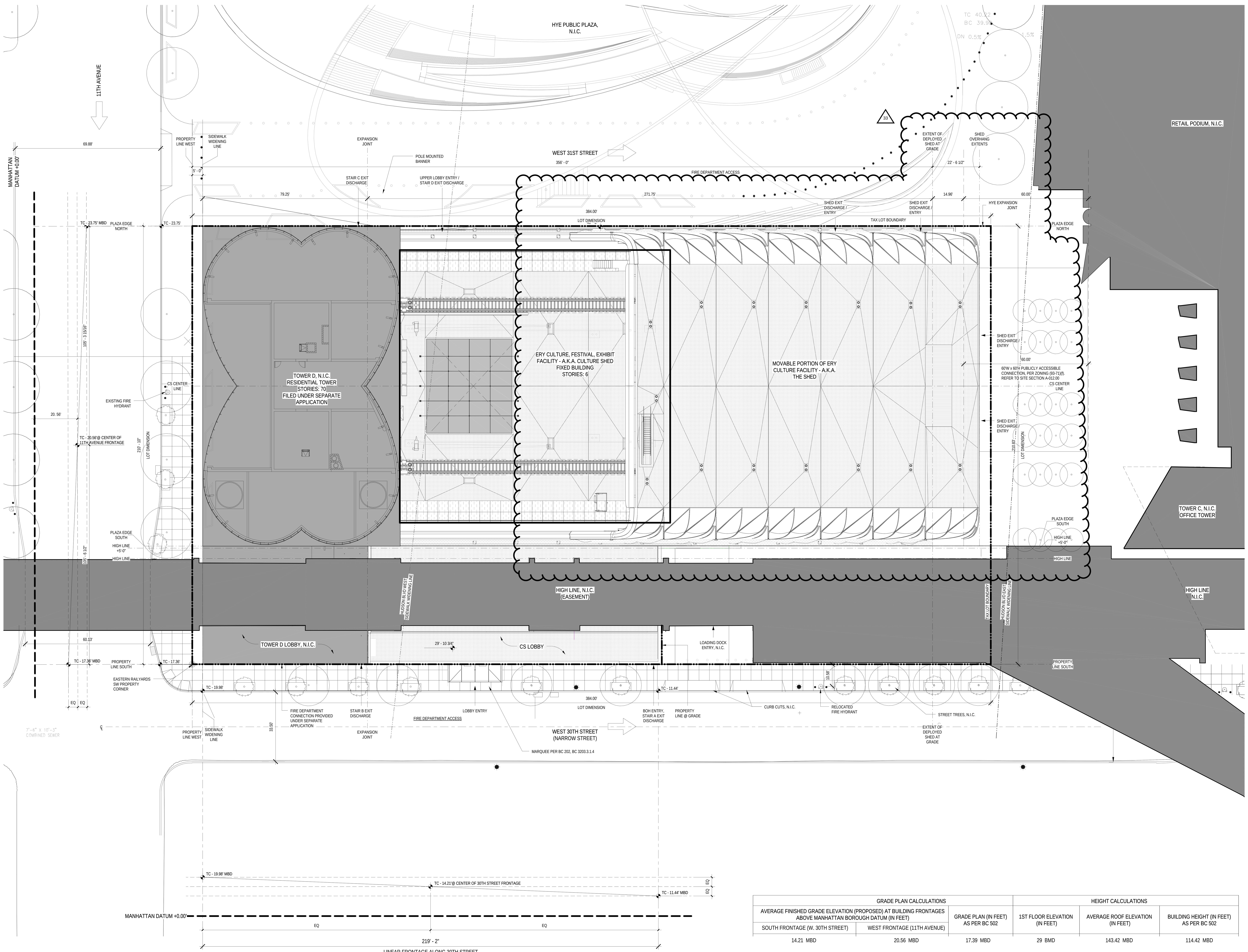

GRADE PLAN CALCULATIONS			HEIGHT CALCULATIONS		
AVERAGE FINISHED GRADE ELEVATION (PROPOSED) AT BUILDING FRONTAGES ABOVE MANHATTAN BOROUGH DATUM (IN FEET)		GRADE PLAN (IN FEET) AS PER BC 502	1ST FLOOR ELEVATION (IN FEET)	AVERAGE ROOF ELEVATION (IN FEET)	BUILDING HEIGHT (IN FEET) AS PER BC 502
SOUTH FRONTAGE (W. 30TH STREET)	WEST FRONTAGE (11TH AVENUE)				
14.21 MBD	20.56 MBD	17.39 MBD	29 BMD	143.42 MBD	114.42 MBD

LEGEND

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REGISTERED ARCHITECT RICARDO SCOFIDIO 008800 STATE OF NEW YORK

Damian Titus
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
NYC Development Hub

DRAWN BY MM
CHECKED BY MS

PROJECT NUMBER
11017

TITLE
SITE PLAN DEPLOYED

SCALE: 1/16" = 1'-0"
0 8 16 24

DRAWING NO.
A-011.01

B-SCAN NO.
A-011.01

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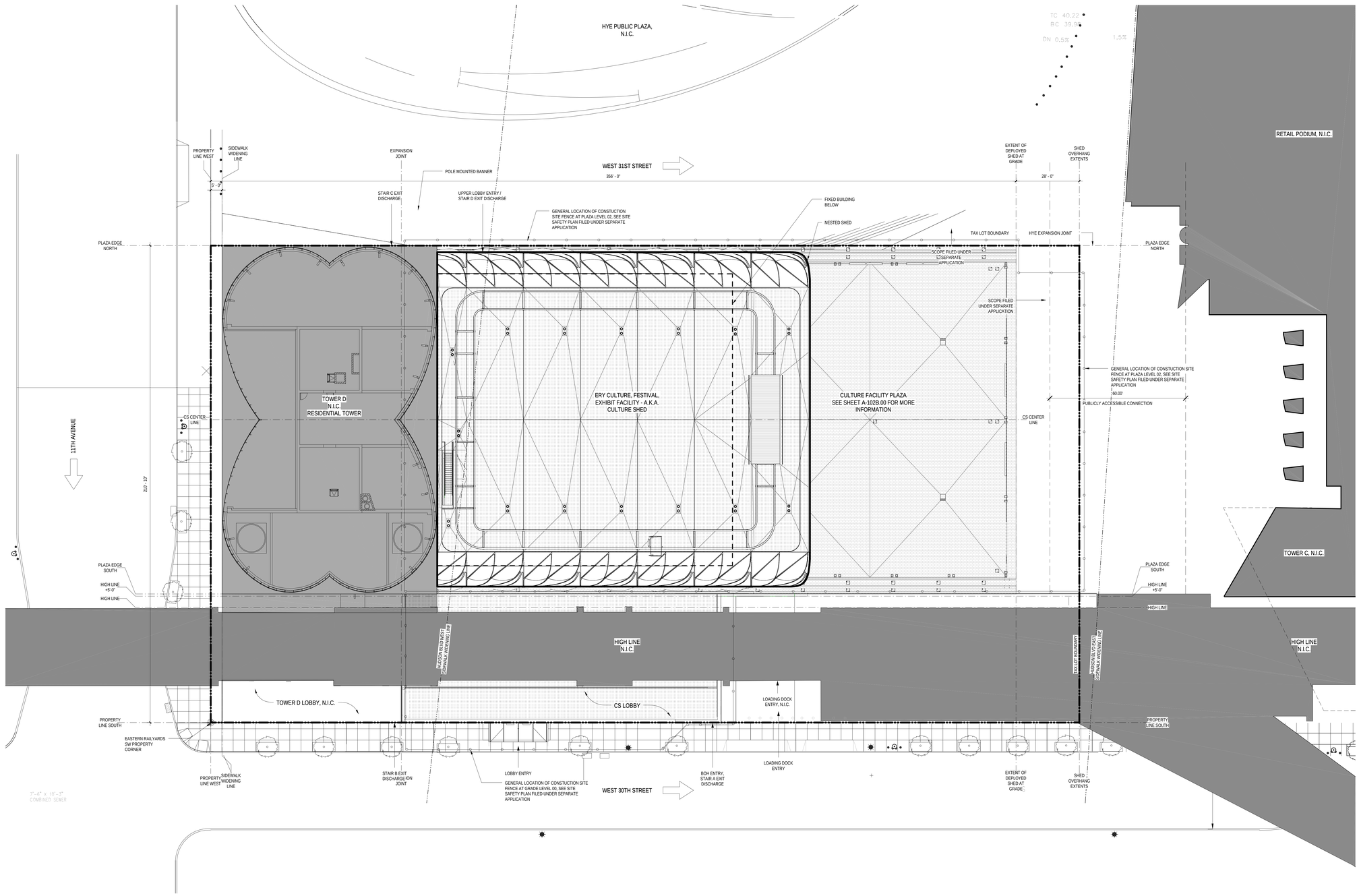

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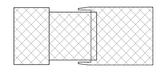
KEY PLAN



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CHECKED BY MS

PROJECT NUMBER
11017

TITLE
SITE PLAN NESTED

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
A-012.00

B-SCAN NO.
A-012.00

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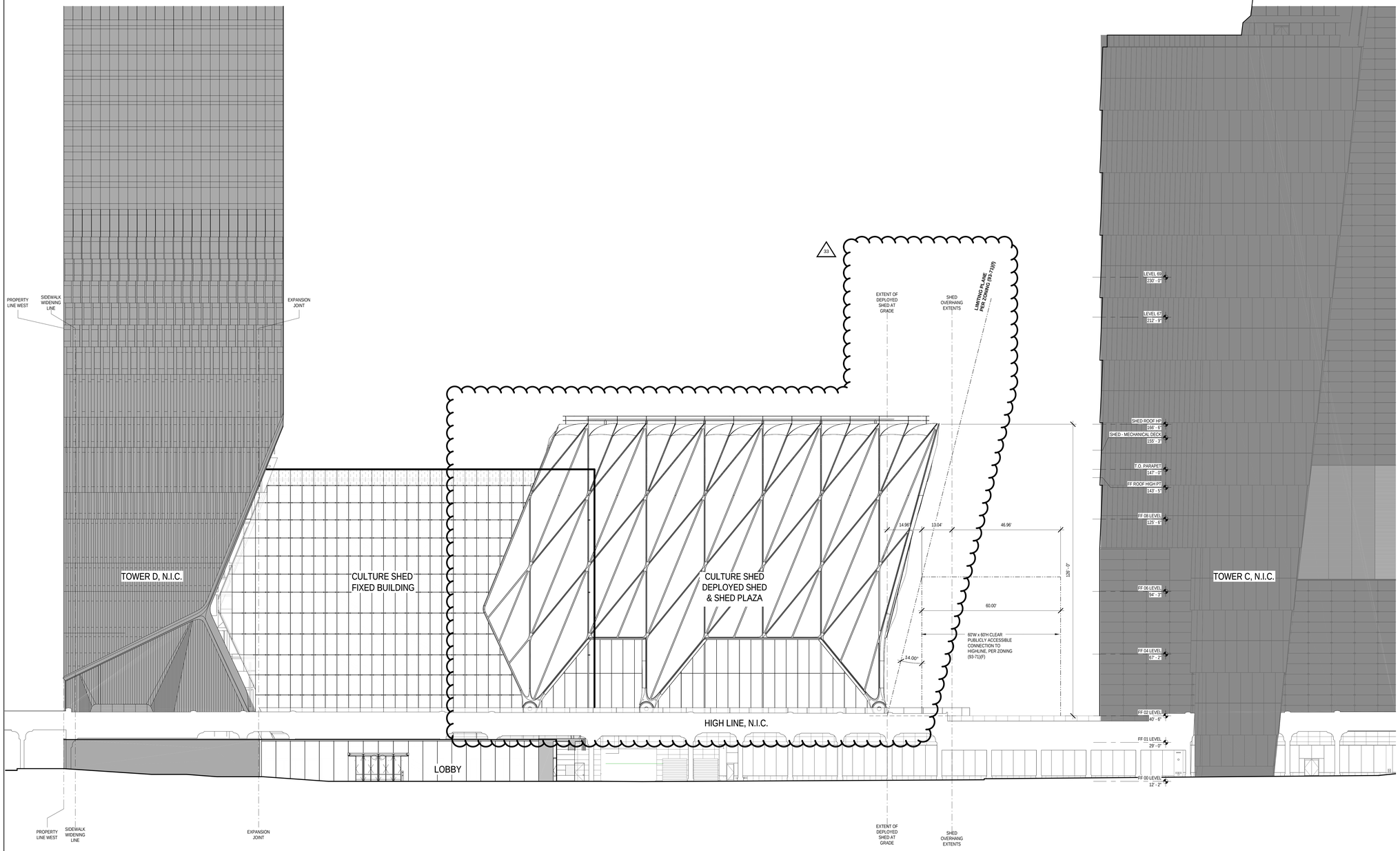

BUILDING ELEVATION - SITE - SOUTH | 2 | 1/16" = 1'-0"

LEGEND

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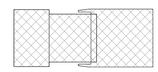

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TITLE
SITE ELEVATION - SOUTH

Damian Titus
Buildings
APPROVED
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AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
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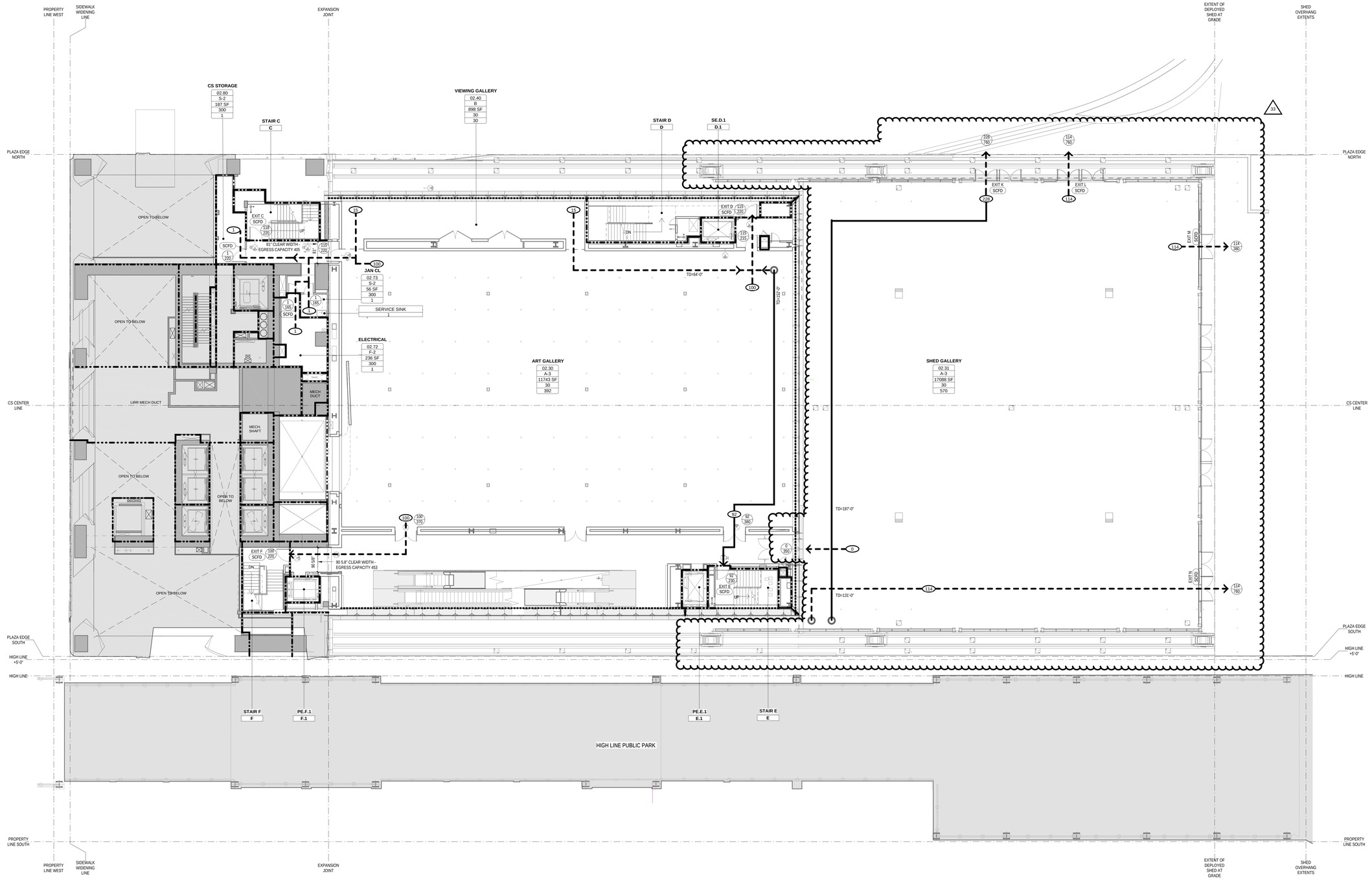

OCCUPANT LOAD TABLE - LEVEL 02

RM. NUMBER	ROOM NAME	OCCUPANCY TYPE	OCCUPANT LOAD FACTOR	GROSS/NET	AREA	OCCUPANT LOAD
02.30	ART GALLERY	A-3	30	NET	11743 SF	392
02.31	SHED GALLERY	A-3	30	NET	17088 SF	570
02.40	VIEWING GALLERY	B	30	NET	898 SF	30
02.72	ELECTRICAL	F-2	300	GROSS	236 SF	1
02.73	JAN CL	S-2	300	GROSS	56 SF	1
02.80	CS STORAGE	S-2	300	GROSS	187 SF	1
					30208 SF	995

EGRESS STAIR CAPACITY TABLE - LEVEL 02

EGRESS	STAIR WIDTH	STAIR CAPACITY-FACTOR 0.3 PER TABLE 1005.1	STAIR CAPACITY REQUIRED
STAIR C	60"	200	118
STAIR D	60"	200	115
STAIR E	60"	200	92
STAIR F	60"	200	100
		800	425

EXIT DOOR CAPACITY TABLE - LEVEL 02

DOOR	DOOR WIDTH	DOOR CAPACITY-FACTOR 0.2 PER TABLE 1005.1	DOOR REQUIRED CAPACITY
EXIT C	46"	230	118
EXIT D	46"	230	115
EXIT E	46"	230	92
EXIT F	46"	230	100
EXIT K	152"	760	228
EXIT L	152"	760	114
EXIT M	152"	760	114
EXIT N	152"	760	114
		3960	995

PLUMBING FIXTURE COUNT SUMMARY - LEVEL 02

	WC	UR	LAV
MALE	0	0	0
FEMALE	0	-	0
UNISEX	0	-	0
DRINKING FOUNTAIN			0
SERVICE SINK			1

LEGEND

- 1 HOUR WALL
- 2 HOUR WALL
- 2 HOUR FIRE SHUTTER
- 3 HOUR WALL
- LOT LINE - 3 HOUR WALL
- LOT LINE - 3 HOUR FIRE SHUTTER
- ATRIUM SEPARATION
- DRAFT CURTAIN WITH SPRINKLERS
- REQUIRED EGRESS CAPACITY (PERSONS) / PROVIDED EGRESS CAPACITY (PERSONS)
- REQUIRED EGRESS CAPACITY (PERSONS) / PROVIDED EGRESS CAPACITY (PERSONS)
- EGRESS LOAD
- PRIMARY TRAVEL DISTANCE
- SECONDARY TRAVEL DISTANCE
- EGRESS FROM LEVEL ABOVE OR BELOW
- OCCUPANCY
- SQFT
- OCCUPANCY/UNIT
- OCCUPANCY/LOAD

NOT IN SCOPE - EGRESS, FIRE RATINGS & OCCUPANCIES SHOWN IN THESE AREAS ARE FOR REFERENCE ONLY AND ARE PER TOWER D & TOWER C APPLICATIONS

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I Under Directive 2 of 1975
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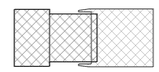
KEY PLAN



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44	33	DOB AMENDMENT 5	04.08.2016
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9		90% CONSTRUCTION DOCUMENTS	02.16.2015
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PROJECT NUMBER 11017

TITLE

LIFE SAFETY PLAN 02 LEVEL

SCALE: As indicated

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B-SCAN NO.

A-032.01

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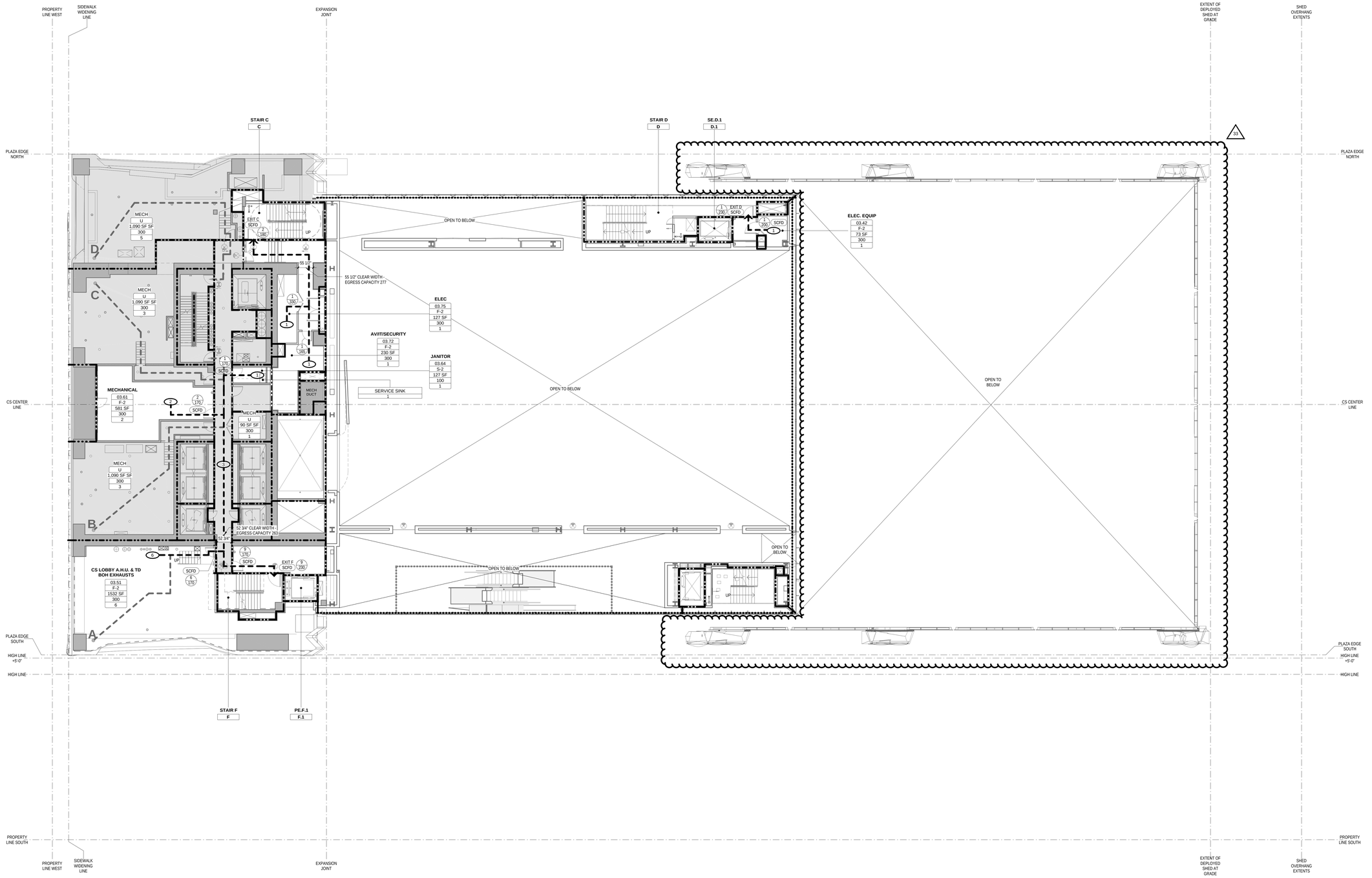

OCCUPANT LOAD TABLE - LEVEL 03						
RM. NUMBER	ROOM NAME	OCCUPANCY TYPE	OCCUPANT LOAD FACTOR	GROSS/NET	AREA	OCCUPANT LOAD
03.42	ELEC. EQUIP	F-2	300	GROSS	73 SF	1
03.51	CS LOBBY A.H.U. & TD BOH EXHAUSTS	F-2	300	GROSS	1532 SF	6
03.61	MECHANICAL	F-2	300	GROSS	581 SF	2
03.64	JANITOR	S-2	100	GROSS	127 SF	1
03.72	AV/IT/SECURITY	F-2	300	GROSS	230 SF	1
03.75	ELEC	F-2	300	GROSS	127 SF	1
					2669 SF	12

EGRESS STAIR CAPACITY TABLE - LEVEL 03			
EGRESS	STAIR WIDTH	STAIR CAPACITY-FACTOR 0.3 PER TABLE 1005.1	STAIR CAPACITY REQUIRED
STAIR C	60"	200	2
STAIR F	60"	200	10
STAIR D	60"	200	1
		600	13

EXIT DOOR CAPACITY TABLE - LEVEL 03			
DOOR	DOOR WIDTH	DOOR CAPACITY-FACTOR 0.2 PER TABLE 1005.1	DOOR REQUIRED CAPACITY
EXIT C	36"	180	2
EXIT F	46"	230	9
EXIT D	46"	230	1
		640	12

PLUMBING FIXTURE COUNT SUMMARY - LEVEL 03			
	WC	UR	LAV
MALE	0	0	0
FEMALE	0	-	0
UNISEX	0	-	0
DRINKING FOUNTAIN			0
SERVICE SINK			1

LEGEND

- 1 HOUR WALL
- 2 HOUR WALL
- 2 HOUR FIRE SHUTTER
- 3 HOUR WALL
- LOT LINE - 3 HOUR WALL
- LOT LINE - 3 HOUR FIRE SHUTTER
- ATRIUM SEPARATION
- DRAFT CURTAIN WITH SPRINKLERS
- REQUIRED EGRESS CAPACITY (PERSONS)
- PROVIDED EGRESS CAPACITY (PERSONS)
- EGRESS LOAD
- PRIMARY TRAVEL DISTANCE
- SECONDARY TRAVEL DISTANCE
- EGRESS FROM LEVEL ABOVE OR BELOW
- OCCUPANCY
- SQFT
- OCCUPANCY CALCULATION
- NOT IN SCOPE - EGRESS, FIRE RATINGS & OCCUPANCIES SHOWN IN THESE AREAS ARE FOR REFERENCE ONLY AND ARE PER TOWER D & TOWER C APPLICATIONS

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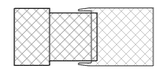

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6		PRELIMINARY DOB SUBMISSION	12.10.2014

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STATE OF NEW YORK

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PROJECT NUMBER
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TITLE
LIFE SAFETY PLAN 03 LEVEL

SCALE: As indicated
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B-SCAN NO.
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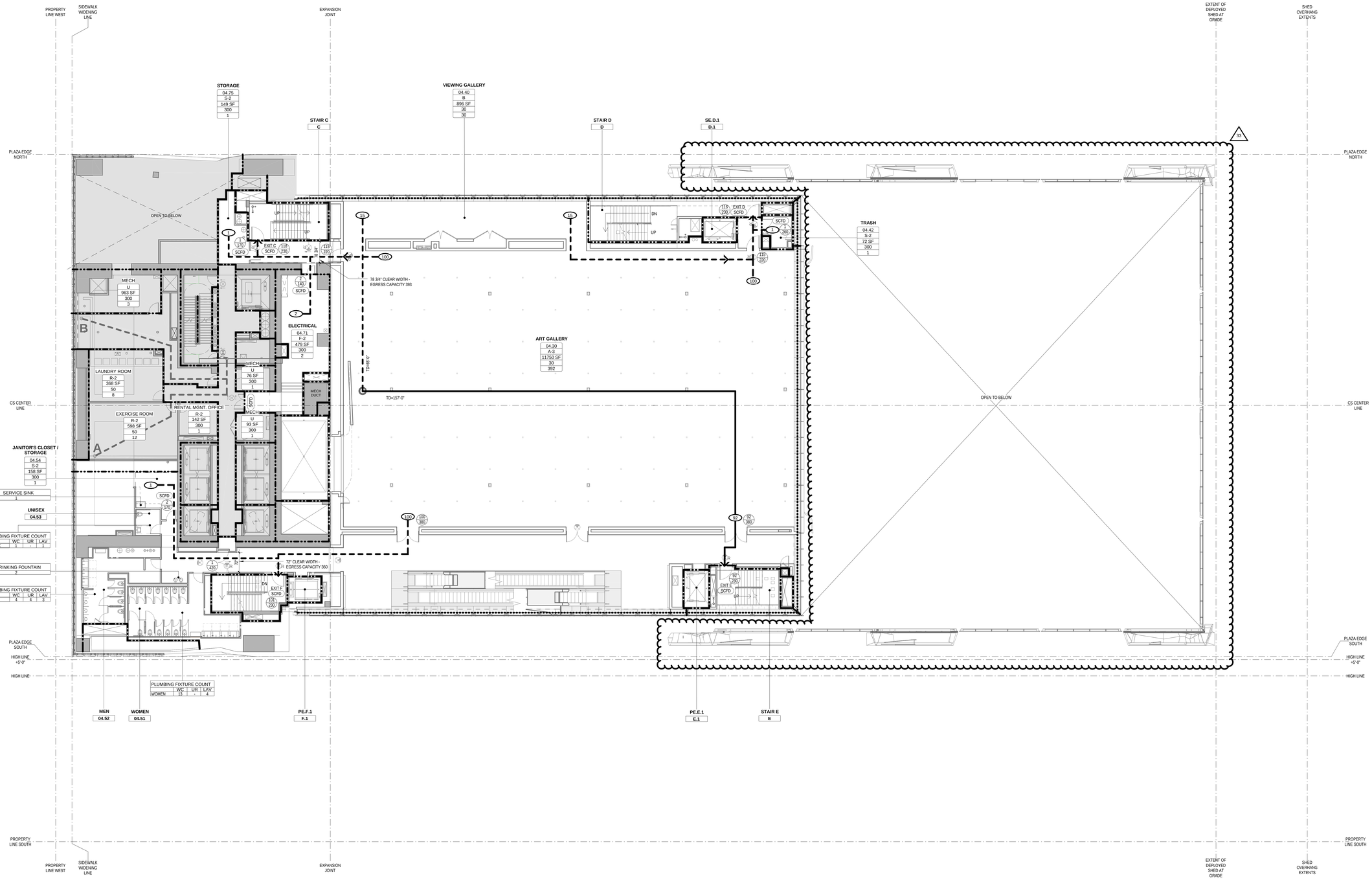

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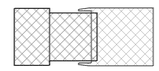

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TITLE

LIFE SAFETY PLAN 04 LEVEL

SCALE: As indicated

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B-SCAN NO.

A-034.01

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OCCUPANT LOAD TABLE - LEVEL 04

RM. NUMBER	ROOM NAME	OCCUPANCY TYPE	OCCUPANT LOAD FACTOR	GROSS/NET	AREA	OCCUPANT LOAD
04.71	ELECTRICAL	F-2	300	GROSS	479 SF	2
04.30	ART GALLERY	A-3	30	NET	11750 SF	392
04.40	VIEWING GALLERY	B	30	NET	896 SF	30
04.42	TRASH	S-2	300	GROSS	72 SF	1
04.54	JANITOR'S CLOSET / STORAGE	S-2	300	GROSS	158 SF	1
04.75	STORAGE	S-2	300	GROSS	149 SF	1
					13504 SF	427

EGRESS STAIR CAPACITY TABLE - LEVEL 04

EGRESS	STAIR WIDTH	STAIR CAPACITY-FACTOR 0.3 PER TABLE 1005.1	STAIR CAPACITY REQUIRED
STAIR C	60"	200	118
STAIR D	60"	200	116
STAIR E	60"	200	92
STAIR F	60"	200	101
		800	427

EXIT DOOR CAPACITY TABLE - LEVEL 04

DOOR	DOOR WIDTH	DOOR CAPACITY-FACTOR 0.2 PER TABLE 1005.1	DOOR REQUIRED CAPACITY
EXIT C	46"	230	118
EXIT D	46"	230	116
EXIT E	46"	230	92
EXIT F	46"	230	101
		920	427

PLUMBING FIXTURE COUNT SUMMARY - LEVEL 04

	WC	UR	LAV
MALE	4	4	3
FEMALE	13	-	4
UNISEX	1	-	1
DRINKING FOUNTAIN			2
SERVICE SINK			1

LEGEND

- 1 HOUR WALL
- 2 HOUR WALL
- 2 HOUR FIRE SHUTTER
- 3 HOUR WALL
- LOT LINE - 3 HOUR WALL
- LOT LINE - 3 HOUR FIRE SHUTTER
- ATRIUM SEPARATION
- DRAFT CURTAIN WITH SPRINKLERS
- REQUIRED EGRESS CAPACITY (PERSONS)
- PROVIDED EGRESS CAPACITY (PERSONS)
- REQUIRED EGRESS CAPACITY (PERSONS)
- PROVIDED EGRESS CAPACITY (PERSONS)
- EGRESS LOAD
- PRIMARY TRAVEL DISTANCE
- SECONDARY TRAVEL DISTANCE
- EGRESS FROM LEVEL ABOVE OR BELOW
- OCCUPANCY
- SQFT
- OCCUPANCY CATEGORY
- OCCUPANCY LOAD
- NOT IN SCOPE - EGRESS, FIRE RATINGS & OCCUPANCIES SHOWN IN THESE AREAS ARE FOR REFERENCE ONLY AND ARE PER TOWER D & TOWER C APPLICATIONS

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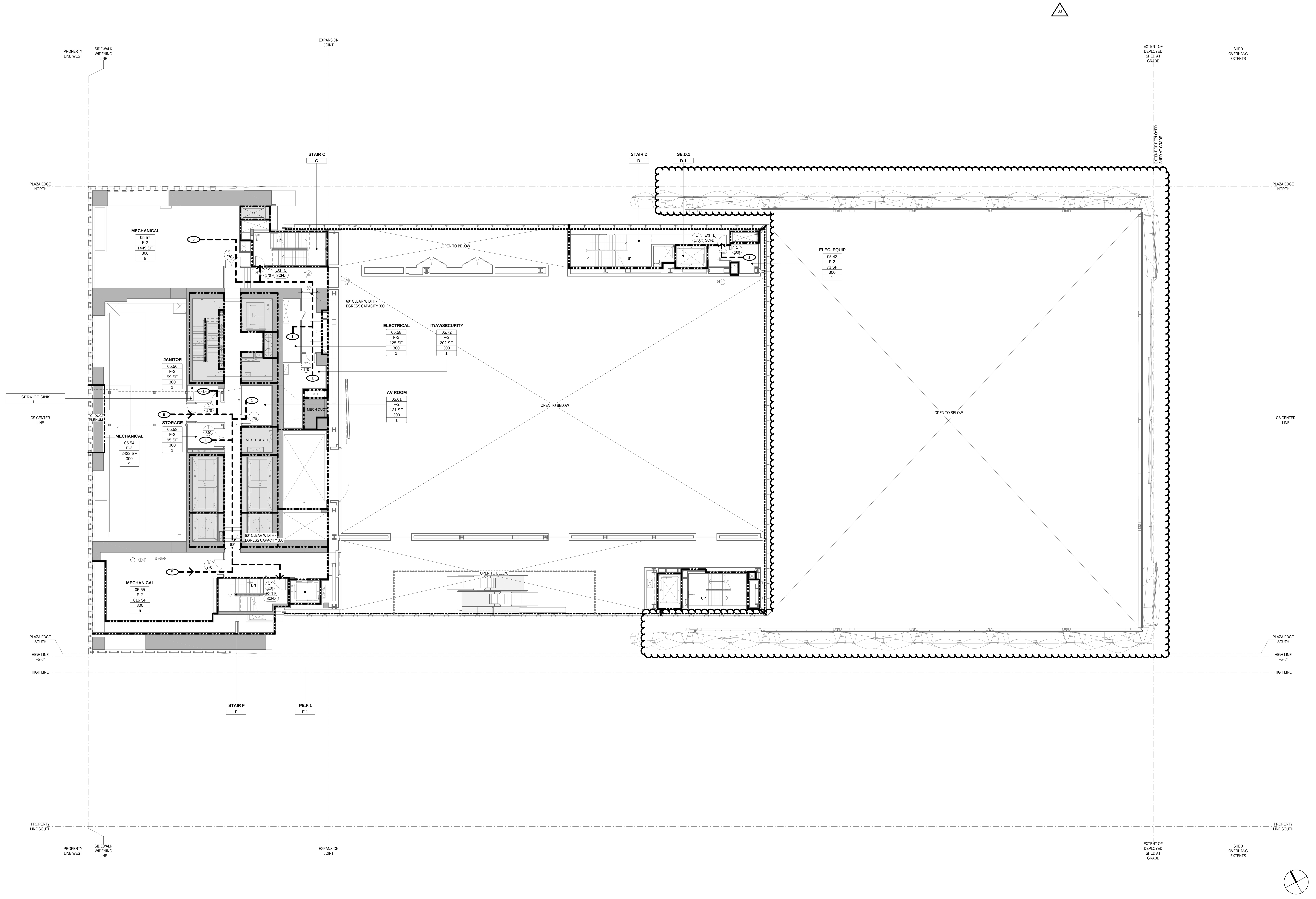

OCCUPANT LOAD TABLE - LEVEL 05						
RM. NUMBER	ROOM NAME	OCCUPANCY TYPE	OCCUPANT LOAD FACTOR	GROSS/NET	AREA	OCCUPANT LOAD
05.42	ELEC. EQUIP	F-2	300	GROSS	73 SF	1
05.54	MECHANICAL	F-2	300	GROSS	2432 SF	9
05.55	MECHANICAL	F-2	300		816 SF	5
05.56	JANITOR	F-2	300		59 SF	1
05.57	MECHANICAL	F-2	300	GROSS	1449 SF	5
05.58	ELECTRICAL	F-2	300		125 SF	1
05.58	STORAGE	F-2	300		95 SF	1
05.61	AV ROOM	F-2	300	GROSS	131 SF	1
05.72	IT/AV/SECURITY	F-2	300	GROSS	202 SF	1
					5383 SF	25

EGRESS STAIR CAPACITY TABLE - LEVEL 05			
EGRESS	STAIR WIDTH	STAIR CAPACITY-FACTOR 0.3 PER TABLE 1005.1	STAIR CAPACITY REQUIRED
STAIR C	60"	200	7
STAIR F	60"	200	17
STAIR D	60"	200	1
		600	25

EXIT DOOR CAPACITY TABLE - LEVEL 05			
DOOR	DOOR WIDTH	DOOR CAPACITY-FACTOR 0.2 PER TABLE 1005.1	DOOR REQUIRED CAPACITY
EXIT C	36"	180	7
EXIT F	46"	230	17
EXIT D	46"	230	1
		640	25

PLUMBING FIXTURE COUNT SUMMARY - LEVEL 05			
	WC	UR	LAV
MALE	0	0	0
FEMALE	0	-	0
UNISEX	0	-	0
DRINKING FOUNTAIN			0
SERVICE SINK			1

LEGEND

- 1 HOUR WALL
- 2 HOUR WALL
- 2 HOUR FIRE SHUTTER
- 3 HOUR WALL
- LOT LINE - 3 HOUR WALL
- LOT LINE - 3 HOUR FIRE SHUTTER
- ATRIUM SEPARATION
- DRAFT CURTAIN WITH SPRINKLERS
- REQUIRED EGRESS CAPACITY (PERSONS) / PROVIDED EGRESS CAPACITY (PERSONS)
- REQUIRED EGRESS CAPACITY (PERSONS) / PROVIDED EGRESS CAPACITY (PERSONS)
- EGRESS LOAD
- PRIMARY TRAVEL DISTANCE
- SECONDARY TRAVEL DISTANCE
- EGRESS FROM LEVEL ABOVE OR BELOW
- OCCUPANCY / SQFT / OCCUPANCY LOAD FACTOR / OCCUPANCY LOAD
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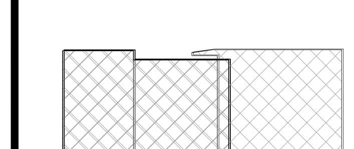

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PROJECT NUMBER
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LIFE SAFETY PLAN 05 LEVEL

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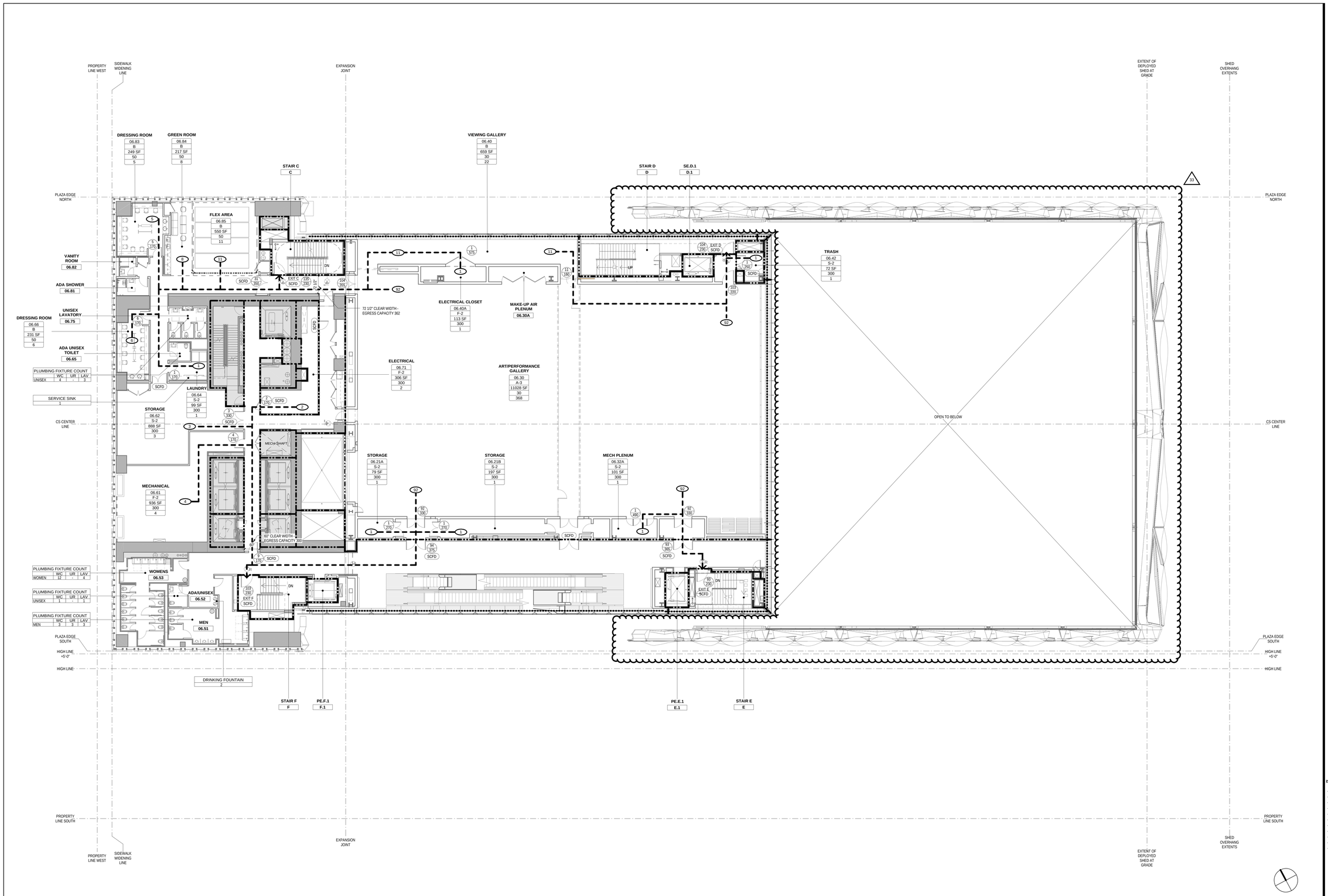

OCCUPANT LOAD TABLE - LEVEL 06

RM. NUMBER	ROOM NAME	OCCUPANCY TYPE	OCCUPANT LOAD FACTOR	GROSS/NET	AREA	OCCUPANT LOAD
06.21A	STORAGE	S-2	300	GROSS	79 SF	1
06.21B	STORAGE	S-2	300	GROSS	197 SF	1
06.23	SOUND/LIGHT LOCK	S-2	300	GROSS	100 SF	0
06.30	ART/PERFORMANCE GALLERY	A-3	30	NET	11028 SF	368
06.32A	MECH PLENUM	S-2	300	GROSS	101 SF	1
06.40	VIEWING GALLERY	B	30	NET	659 SF	22
06.40A	ELECTRICAL CLOSET	F-2	300	GROSS	113 SF	1
06.42	TRASH	S-2	300	GROSS	72 SF	1
06.61	MECHANICAL	F-2	300	GROSS	936 SF	4
06.62	STORAGE	S-2	300	GROSS	888 SF	3
06.64	LAUNDRY	S-2	300	GROSS	99 SF	1
06.66	DRESSING ROOM	B	50	NET	231 SF	6
06.71	ELECTRICAL	F-2	300	GROSS	306 SF	2
06.83	DRESSING ROOM	B	50	NET	249 SF	5
06.84	GREEN ROOM	B	50	NET	217 SF	8
06.85	FLEX AREA	B	50	NET	550 SF	11
					15825 SF	435

EGRESS STAIR CAPACITY TABLE - LEVEL 06

EGRESS	STAIR WIDTH	STAIR CAPACITY-FACTOR 0.2 PER TABLE 1024.6.2	STAIR CAPACITY REQUIRED
STAIR C	60"	300	135
STAIR D	60"	300	104
STAIR E	60"	300	93
STAIR F	60"	300	103
		1200	435

EXIT DOOR CAPACITY TABLE - LEVEL 06

DOOR	DOOR WIDTH	DOOR CAPACITY-FACTOR 0.15 PER TABLE 1024.6.2	DOOR REQUIRED CAPACITY
EXIT C	46"	307	135
EXIT D	46"	307	104
EXIT E	46"	307	93
EXIT F	46"	307	103
			435

PLUMBING FIXTURE COUNT SUMMARY - LEVEL 06

	WC	UR	LAV
MALE	3	3	3
FEMALE	12	-	4
UNISEX	5	-	4
DRINKING FOUNTAIN			2
SERVICE SINK			1

* ART/PERFORMANCE GALLERY 06.30 PROVIDES SMOKE-PROTECTED ASSEMBLY WITH A SMOKE CONTROL SYSTEM COMPLYING WITH BC 909. STAIR AND DOOR WIDTH FACTORS ARE PER TABLE BC 1024.6.2

LEGEND

- 1 HOUR WALL
- 2 HOUR WALL
- 2 HOUR FIRE SHUTTER
- 3 HOUR WALL
- LOT LINE - 3 HOUR WALL
- LOT LINE - 3 HOUR FIRE SHUTTER
- ATRIUM SEPARATION
- DRAFT CURTAIN WITH SPRINKLERS
- REQUIRED EGRESS CAPACITY (PERSONS)
- PROVIDED EGRESS CAPACITY (PERSONS)
- EGRESS LOAD
- PRIMARY TRAVEL DISTANCE
- SECONDARY TRAVEL DISTANCE
- EGRESS FROM LEVEL ABOVE OR BELOW
- OCCUPANCY
- SQFT
- OCCUPANCY CALCULATION
- NOT IN SCOPE - EGRESS, FIRE RATINGS & OCCUPANCIES SHOWN IN THESE AREAS ARE FOR REFERENCE ONLY AND ARE PER TOWER D & TOWER C APPLICATIONS

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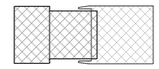

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PROJECT NUMBER 1.1017

TITLE

LIFE SAFETY PLAN 06 LEVEL

SCALE: As indicated

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B-SCAN NO.

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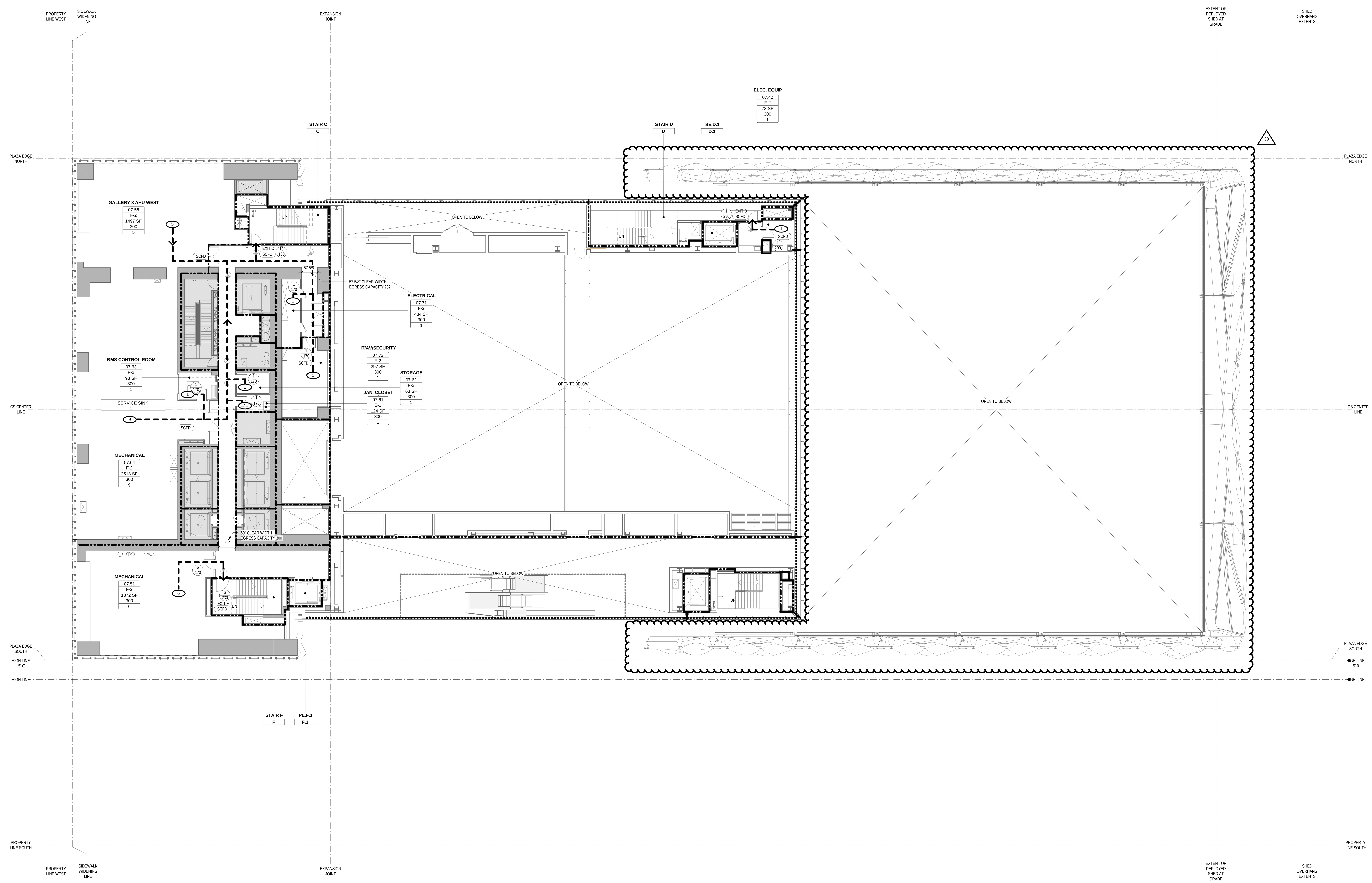

OCCUPANT LOAD TABLE - LEVEL 07						
RM. NUMBER	ROOM NAME	OCCUPANCY TYPE	OCCUPANT LOAD FACTOR	GROSS/NET	AREA	OCCUPANT LOAD
07.51	MECHANICAL	F-2	300	GROSS	1372 SF	6
07.56	GALLERY 3 AHU WEST	F-2	300	GROSS	1497 SF	5
07.61	JAN. CLOSET	S-1	300	GROSS	124 SF	1
07.62	STORAGE	F-2	300	GROSS	63 SF	1
07.63	BMS CONTROL ROOM	F-2	300	GROSS	93 SF	1
07.64	MECHANICAL	F-2	300	GROSS	2513 SF	9
07.71	ELECTRICAL	F-2	300	GROSS	484 SF	1
07.72	IT/AV/SECURITY	F-2	300	GROSS	297 SF	1
07.42	ELEC. EQUIP	F-2	300	GROSS	73 SF	1
					6516 SF	26

EGRESS STAIR CAPACITY TABLE - LEVEL 07			
EGRESS	STAIR WIDTH	STAIR CAPACITY PER TABLE 1005.1	STAIR CAPACITY REQUIRED
STAIR C	60"	200	19
STAIR F	60"	200	6
STAIR D	60"	200	1
		600	26

EXIT DOOR CAPACITY TABLE - LEVEL 07			
DOOR	DOOR WIDTH	DOOR CAPACITY PER TABLE 1005.1	DOOR REQUIRED CAPACITY
EXIT C	36"	180	19
EXIT F	46"	230	6
EXIT D	46"	230	1
		640	26

PLUMBING FIXTURE COUNT SUMMARY - LEVEL 07			
	WC	UR	LAV
MALE	0	0	0
FEMALE	0	-	0
UNISEX	0	-	0
DRINKING FOUNTAIN			0
SERVICE SINK			1

LEGEND

1 HOUR WALL
2 HOUR WALL
2 HOUR FIRE SHUTTER
3 HOUR WALL
LOT LINE - 3 HOUR WALL
LOT LINE - 3 HOUR FIRE SHUTTER
ATRIUM SEPARATION
DRAFT CURTAIN WITH SPRINKLERS

REQUIRED EGRESS CAPACITY (PERSONS)
PROVIDED EGRESS CAPACITY (PERSONS)
REQUIRED EGRESS CAPACITY (PERSONS)
PROVIDED EGRESS CAPACITY (PERSONS)
EGRESS LOAD
PRIMARY TRAVEL DISTANCE
SECONDARY TRAVEL DISTANCE
EGRESS FROM LEVEL ABOVE OR BELOW
OCCUPANCY
SQFT
OCCUPANCY LOAD FACTOR
OCCUPANCY LOAD
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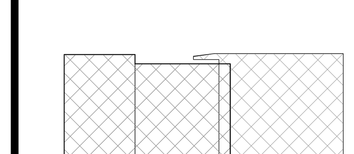

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008800
STATE OF NEW YORK

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LH

CHECKED BY
MS

PROJECT NUMBER
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B-SCAN NO.
A-037.01

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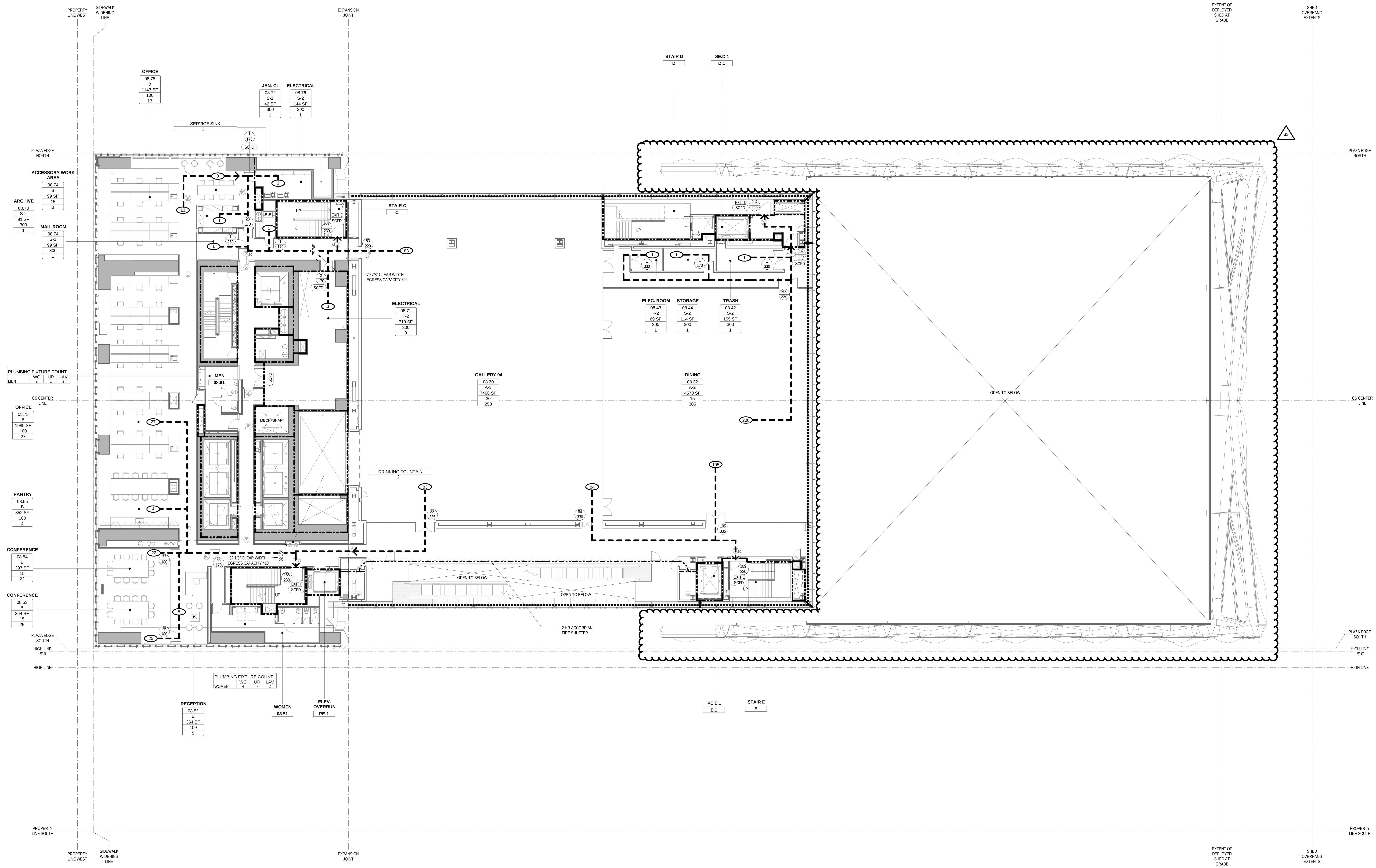

OCCUPANT LOAD TABLE - LEVEL 08

RM. NUMBER	ROOM NAME	OCCUPANCY TYPE	OCCUPANT LOAD FACTOR	GROSS/NET	AREA	OCCUPANT LOAD
08.30	GALLERY 04	A-3	30	NET	7498 SF	250
08.32	DINING	A-2	15	NET	4570 SF	305
08.42	TRASH	S-2	300	GROSS	155 SF	1
08.43	ELEC. ROOM	F-2	300	GROSS	69 SF	1
08.44	STORAGE	S-2	300	GROSS	114 SF	1
08.52	RECEPTION	B	100	GROSS	364 SF	5
08.53	CONFERENCE	B	15	NET	364 SF	25
08.54	CONFERENCE	B	15	NET	297 SF	22
08.55	PANTRY	B	100	GROSS	352 SF	4
08.71	ELECTRICAL	F-2	300	GROSS	719 SF	3
08.72	JAN. CL	S-2	300	GROSS	42 SF	1
08.73	ARCHIVE	S-2	300	GROSS	91 SF	1
08.74	ACCESSORY WORK AREA	B	15	GROSS	99 SF	8
08.74	MAIL ROOM	S-2	300	GROSS	99 SF	1
08.75	OFFICE	B	100	NET	1989 SF	27
08.75	OFFICE	B	100	GROSS	1143 SF	13
08.76	ELECTRICAL	S-2	300	GROSS	144 SF	1
					18109 SF	669

EGRESS STAIR CAPACITY TABLE - LEVEL 08

EGRESS	STAIR WIDTH	STAIR CAPACITY-FACTOR 0.3 PER TABLE 1005.1	STAIR CAPACITY REQUIRED
STAIR C	60"	200	111
STAIR D	60"	200	203
STAIR E	60"	200	189
STAIR F	60"	200	166
		800	669

EXIT DOOR CAPACITY TABLE - LEVEL 08

DOOR	DOOR WIDTH	DOOR CAPACITY-FACTOR 0.2 PER TABLE 1005.1	DOOR REQUIRED CAPACITY
EXIT C	46"	230	111
EXIT D	46"	230	203
EXIT E	46"	230	189
EXIT F	46"	230	166
		920	669

PLUMBING FIXTURE COUNT SUMMARY - LEVEL 08

	WC	UR	LAV
MALE	2	1	2
FEMALE	4	-	2
UNISEX	0	-	0
DRINKING FOUNTAIN			2
SERVICE SINK			1

LEGEND

- 1 HOUR WALL
- 2 HOUR WALL
- 2 HOUR FIRE SHUTTER
- 3 HOUR WALL
- LOT LINE - 3 HOUR WALL
- LOT LINE - 3 HOUR FIRE SHUTTER
- ATRIUM SEPARATION
- DRAFT CURTAIN WITH SPRINKLERS
- REQUIRED EGRESS CAPACITY (PERSONS) / PROVIDED EGRESS CAPACITY (PERSONS)
- REQUIRED EGRESS CAPACITY (PERSONS) / PROVIDED EGRESS CAPACITY (PERSONS)
- EGRESS LOAD
- PRIMARY TRAVEL DISTANCE
- SECONDARY TRAVEL DISTANCE
- EGRESS FROM LEVEL ABOVE OR BELOW
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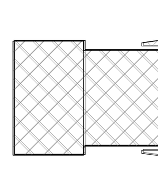

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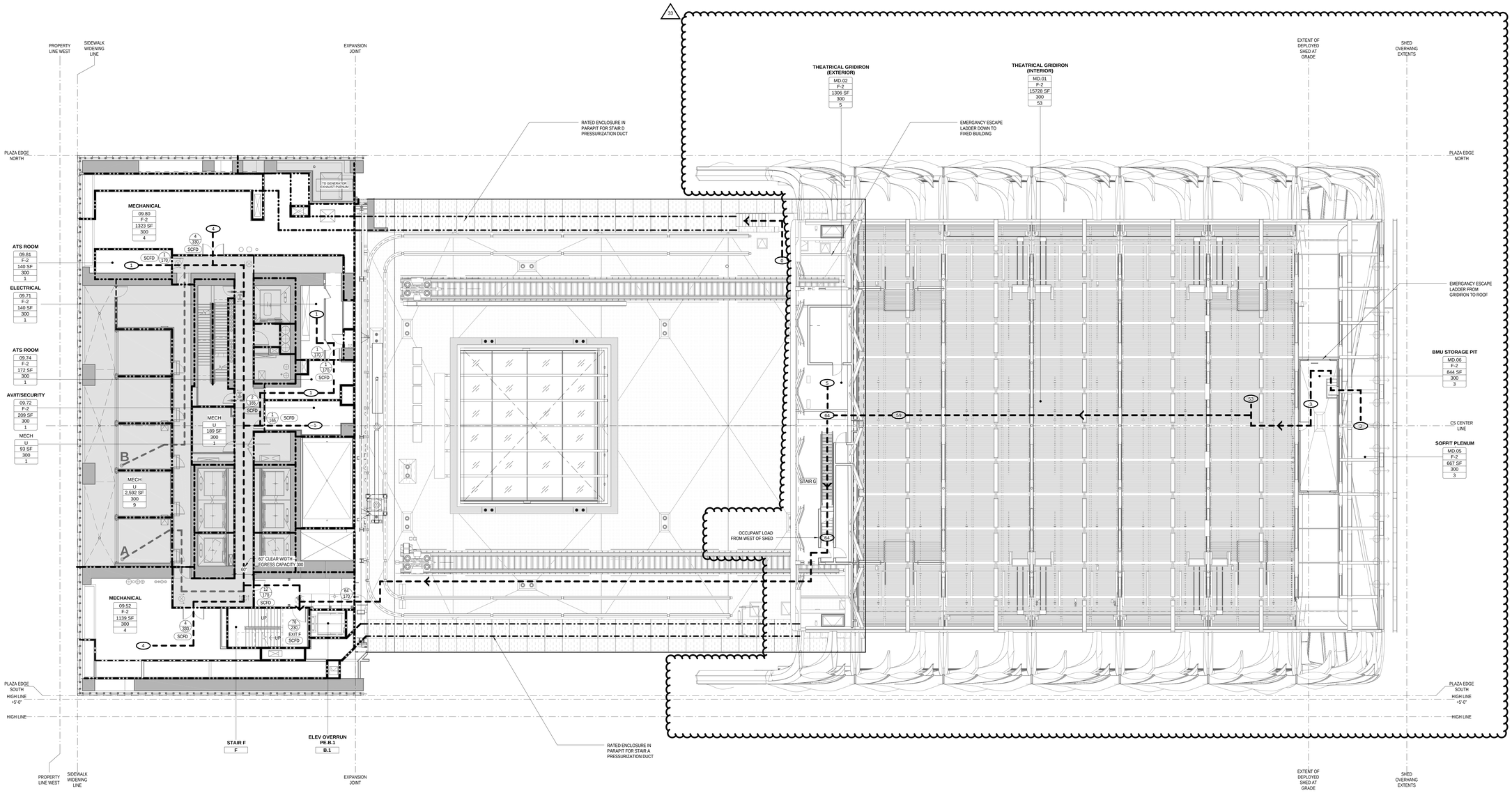

OCCUPANT LOAD TABLE - LEVEL 09

RM. NUMBER	ROOM NAME	OCCUPANCY TYPE	OCCUPANT LOAD FACTOR	GROSS/NET	AREA	OCCUPANT LOAD
09.52	MECHANICAL	F-2	300	GROSS	1139 SF	4
09.71	ELECTRICAL	F-2	300	GROSS	140 SF	1
09.72	AV/IT/SECURITY	F-2	300	GROSS	209 SF	1
09.74	ATS ROOM	F-2	300	NET	172 SF	1
09.80	MECHANICAL	F-2	300	GROSS	1323 SF	4
09.81	ATS ROOM	F-2	300	NET	140 SF	1
MD.01	THEATRICAL GRIDIRON (INTERIOR)	F-2	300	GROSS	15728 SF	53
MD.02	THEATRICAL GRIDIRON (EXTERIOR)	F-2	300	GROSS	1306 SF	5
MD.05	SOFFIT PLENUM	F-2	300	GROSS	667 SF	3
MD.06	BMU STORAGE PIT	F-2	300	GROSS	844 SF	3
					21669 SF	76

EGRESS STAIR CAPACITY TABLE - LEVEL 09

EGRESS	STAIR WIDTH	STAIR CAPACITY-FACTOR 0.3 PER TABLE 1005.1	STAIR CAPACITY REQUIRED
STAIR D	60"	200	0
STAIR G	36"	120	64
STAIR F	60"	200	76

EXIT DOOR CAPACITY TABLE - LEVEL 09

DOOR	DOOR WIDTH	DOOR CAPACITY-FACTOR 0.2 PER TABLE 1005.1	DOOR REQUIRED CAPACITY
EXIT F	48"	230	76
		230	76

PLUMBING FIXTURE COUNT SUMMARY - LEVEL 09

	WC	UR	LAV
MALE	0	0	0
FEMALE	0	-	0
UNISEX	0	-	0
DRINKING FOUNTAIN			0
SERVICE SINK			0

LEGEND

- 1 HOUR WALL
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- 2 HOUR FIRE SHUTTER
- 3 HOUR WALL
- LOT LINE - 3 HOUR WALL
- LOT LINE - 3 HOUR FIRE SHUTTER
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- DRAFT CURTAIN WITH SPRINKLERS
- REQUIRED EGRESS CAPACITY (PERSONS)
- PROVIDED EGRESS CAPACITY (PERSONS)
- REQUIRED EGRESS CAPACITY (PERSONS)
- PROVIDED EGRESS CAPACITY (PERSONS)
- EGRESS LOAD
- PRIMARY TRAVEL DISTANCE
- SECONDARY TRAVEL DISTANCE
- EGRESS FROM LEVEL ABOVE OR BELOW
- OCCUPANCY
- SQFT
- OCCUPANCY CATEGORY
- OCCUPANCY LOAD
- NOT IN SCOPE - EGRESS, FIRE RATINGS & OCCUPANCIES SHOWN IN THESE AREAS ARE FOR REFERENCE ONLY AND ARE PER TOWER D & TOWER C APPLICATIONS

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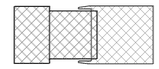
KEY PLAN



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12	6	ADDENDUM 1	07.22.2015
10	4	100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

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PROJECT NUMBER
11017

TITLE

LIFE SAFETY PLAN 09
LEVEL/ROOF PLAN - DEPLOYED

SCALE: As indicated

0 8 16 24

DRAWING NO.
A-039.01

B-SCAN NO.
A-039.01

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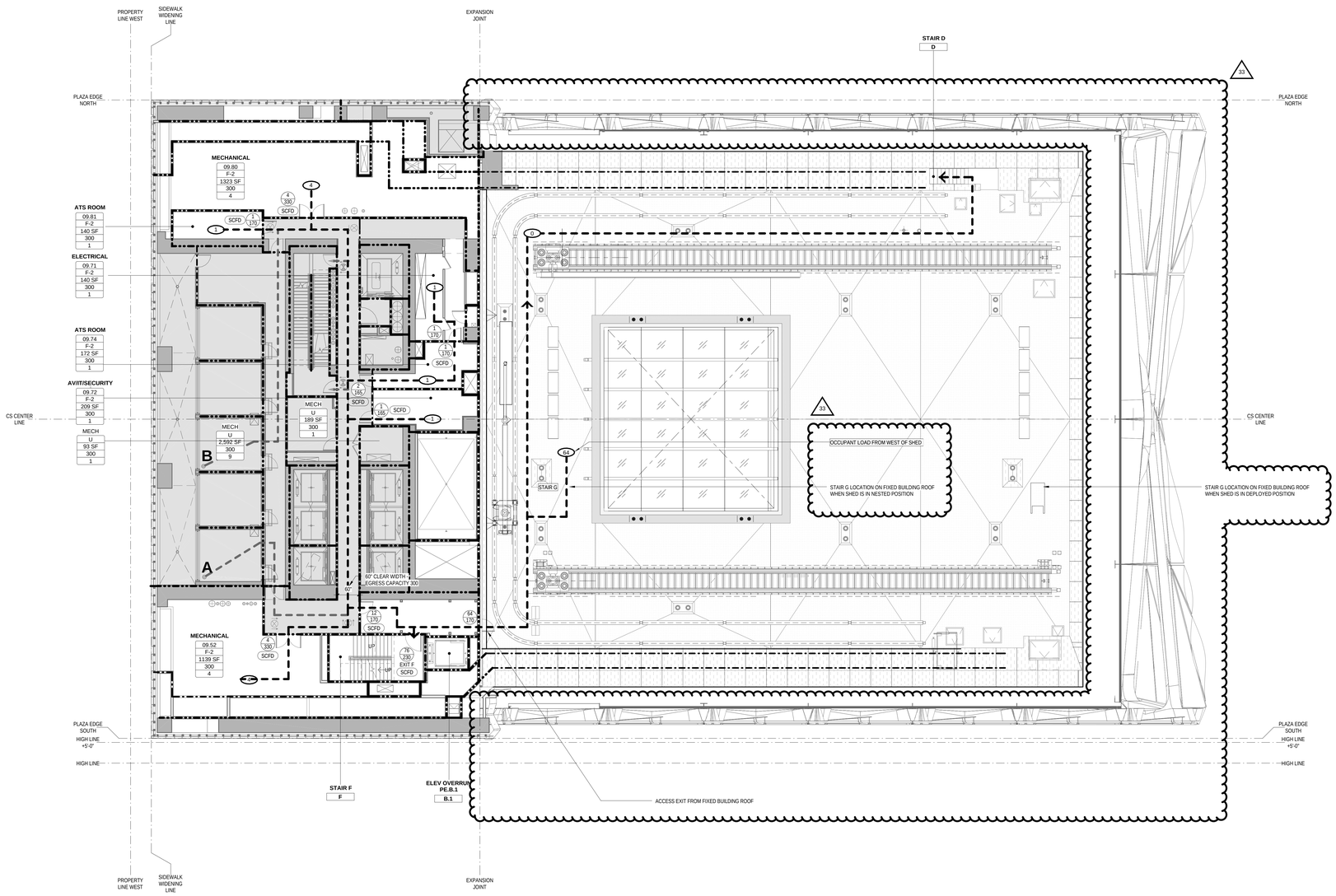

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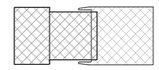

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PROJECT NUMBER 11017

TITLE

LIFE SAFETY PLAN 09
LEVEL/ROOF PLAN - NESTED

SCALE: As indicated

0 8 16 24

DRAWING NO.
A-040.00

B-SCAN NO.
A-040.00
291

OCCUPANT LOAD TABLE - LEVEL 09

RM. NUMBER	ROOM NAME	OCCUPANCY TYPE	OCCUPANT LOAD FACTOR	GROSS/NET	AREA	OCCUPANT LOAD
09.52	MECHANICAL	F-2	300	GROSS	1139 SF	4
09.71	ELECTRICAL	F-2	300	GROSS	140 SF	1
09.72	AV/IT/SECURITY	F-2	300	GROSS	209 SF	1
09.74	ATS ROOM	F-2	300	NET	172 SF	1
09.80	MECHANICAL	F-2	300	GROSS	1323 SF	4
09.81	ATS ROOM	F-2	300	NET	140 SF	1
MD.01	THEATRICAL GRIDIRON (INTERIOR)	F-2	300	GROSS	15728 SF	53
MD.02	THEATRICAL GRIDIRON (EXTERIOR)	F-2	300	GROSS	1306 SF	5
MD.05	SOFFIT PLENUM	F-2	300	GROSS	667 SF	3
MD.06	BMU STORAGE PIT	F-2	300	GROSS	844 SF	3
					21669 SF	76

EGRESS STAIR CAPACITY TABLE - LEVEL 09

EGRESS	STAIR WIDTH	STAIR CAPACITY-FACTOR 0.3 PER TABLE 1005.1	STAIR CAPACITY REQUIRED
STAIR D	60"	200	0
STAIR G	36"	120	64
STAIR F	60"	200	76

EXIT DOOR CAPACITY TABLE - LEVEL 09

DOOR	DOOR WIDTH	DOOR CAPACITY-FACTOR 0.2 PER TABLE 1005.1	DOOR REQUIRED CAPACITY
EXIT F	46"	230	76
		230	76

PLUMBING FIXTURE COUNT SUMMARY - LEVEL 09

	WC	UR	LAV
MALE	0	0	0
FEMALE	0	-	0
UNISEX	0	-	0
DRINKING FOUNTAIN			0
SERVICE SINK			0

1. STAIR F AND G ARE OPERABLE. SEE DETAIL DRAWINGS

LEGEND

- 1 HOUR WALL
- 2 HOUR WALL
- 2 HOUR FIRE SHUTTER
- 3 HOUR WALL
- LOT LINE - 3 HOUR WALL
- LOT LINE - 3 HOUR FIRE SHUTTER
- ATRIUM SEPARATION
- DRAFT CURTAIN WITH SPRINKLERS
- REQUIRED EGRESS CAPACITY (PERSONS)
- PROVIDED EGRESS CAPACITY (PERSONS)
- REQUIRED EGRESS CAPACITY (PERSONS)
- PROVIDED EGRESS CAPACITY (PERSONS)
- EGRESS LOAD
- PRIMARY TRAVEL DISTANCE
- SECONDARY TRAVEL DISTANCE
- EGRESS FROM LEVEL ABOVE OR BELOW
- OCCUPANCY
- SQFT
- OCCUPANCY/UNIT/FLOOR
- OCCUPANCY LOAD
- NOT IN SCOPE - EGRESS, FIRE RATINGS & OCCUPANCIES SHOWN IN THESE AREAS ARE FOR REFERENCE ONLY AND ARE PER TOWER D & TOWER C APPLICATIONS

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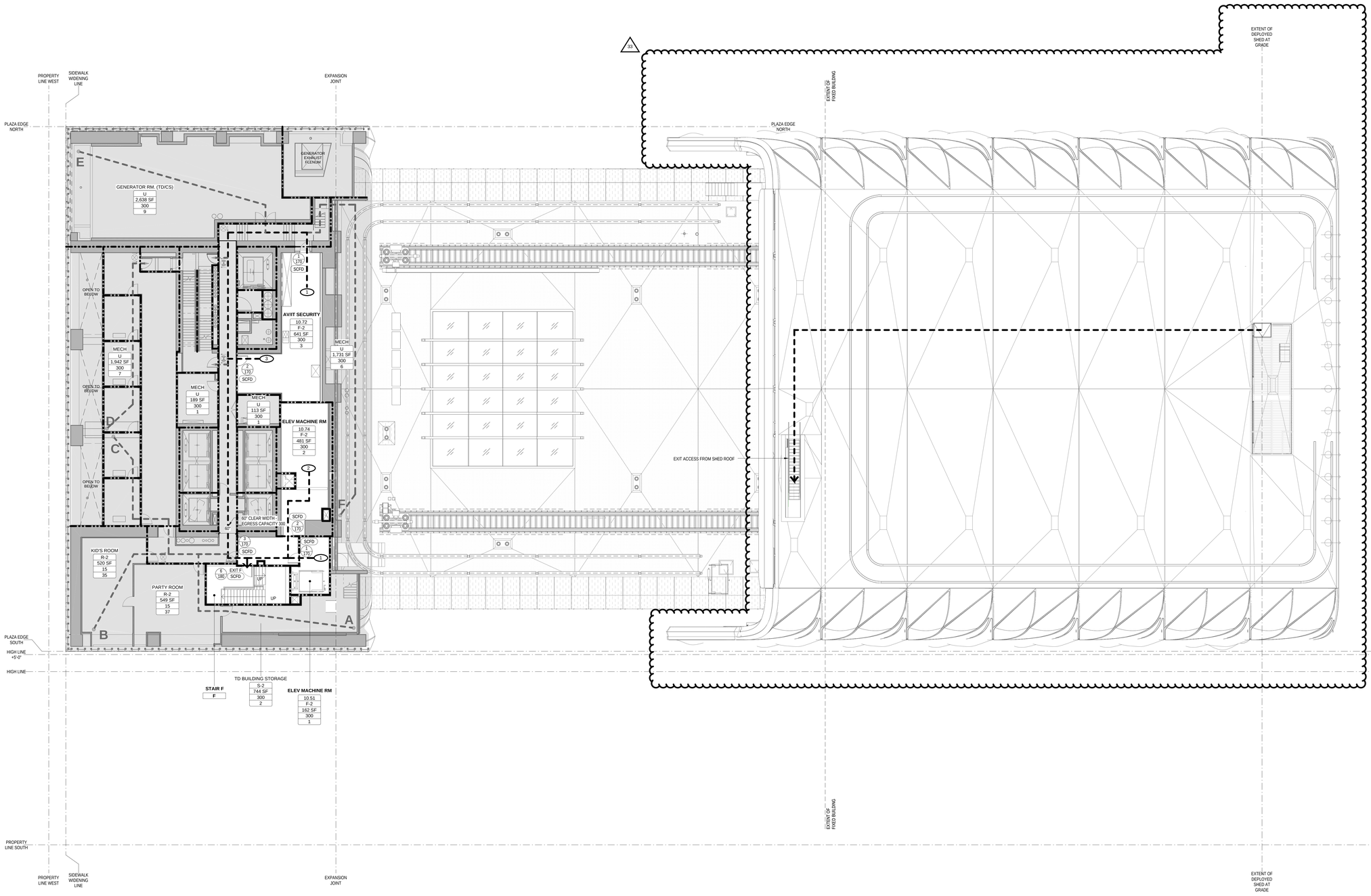

OCCUPANT LOAD TABLE - LEVEL 10

RM. NUMBER	ROOM NAME	OCCUPANCY TYPE	OCCUPANT LOAD FACTOR	GROSS/NET	AREA	OCCUPANT LOAD
10.51	ELEV MACHINE RM	F-2	300	GROSS	162 SF	1
10.72	AVIT SECURITY	F-2	300	GROSS	641 SF	3
10.74	ELEV MACHINE RM	F-2	300	GROSS	481 SF	2
10.71	ELECTRICAL	F-2	300	GROSS	641 SF	1
					1925 SF	7

EGRESS STAIR CAPACITY TABLE - LEVEL 10

EGRESS	STAIR WIDTH	STAIR CAPACITY-FACTOR 0.3 PER TABLE 1005.1	STAIR CAPACITY REQUIRED
STAIR F	60"	200	76
		200	76

EXIT DOOR CAPACITY TABLE - LEVEL 10

DOOR	DOOR WIDTH	DOOR CAPACITY-FACTOR 0.2 PER TABLE 1005.1	DOOR REQUIRED CAPACITY
EXIT F	36"	180	6
		180	6

PLUMBING FIXTURE COUNT SUMMARY - LEVEL 10

	WC	UR	LAV
MALE	0	0	0
FEMALE	0	-	0
UNISEX	0	-	0
DRINKING FOUNTAIN			0
SERVICE SINK			0

LEGEND

- 1 HOUR WALL
- 2 HOUR WALL
- 2 HOUR FIRE SHUTTER
- 3 HOUR WALL
- LOT LINE - 3 HOUR WALL
- LOT LINE - 3 HOUR FIRE SHUTTER
- ATRIUM SEPARATION
- DRAFT CURTAIN WITH SPRINKLERS
- REQUIRED EGRESS CAPACITY (PERSONS) / PROVIDED EGRESS CAPACITY (PERSONS)
- REQUIRED EGRESS CAPACITY (PERSONS) / PROVIDED EGRESS CAPACITY (PERSONS)
- EGRESS LOAD
- PRIMARY TRAVEL DISTANCE
- SECONDARY TRAVEL DISTANCE
- EGRESS FROM LEVEL ABOVE OR BELOW
- OCCUPANCY: ASSEMBLY
- OCCUPANCY: BUSINESS
- OCCUPANCY: STORAGE
- OCCUPANCY: OTHER
- NOT IN SCOPE - EGRESS, FIRE RATINGS & OCCUPANCIES SHOWN IN THESE AREAS ARE FOR REFERENCE ONLY AND ARE PER TOWER D & TOWER C APPLICATIONS

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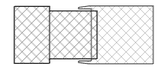

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6		PRELIMINARY DOB SUBMISSION	12.10.2014

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PROJECT NUMBER
11017

TITLE

LIFE SAFETY PLAN 10
LEVEL/ROOF PLAN

SCALE: As indicated

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DRAWING NO.
A-041.01

B-SCAN NO.

A-041.01

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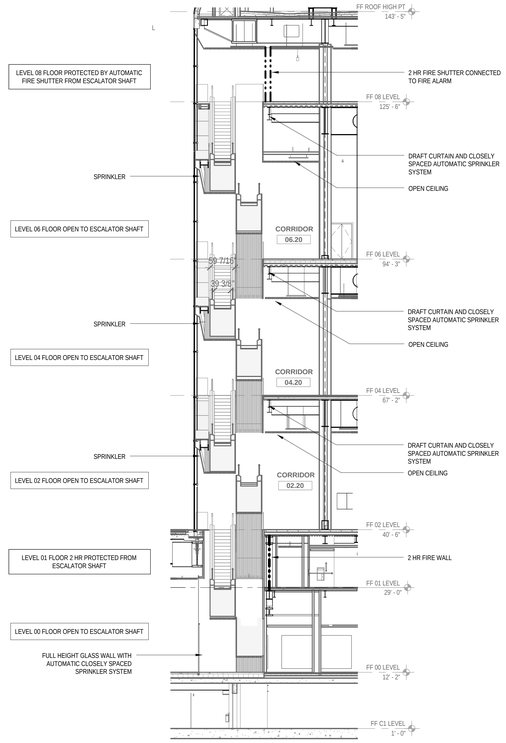
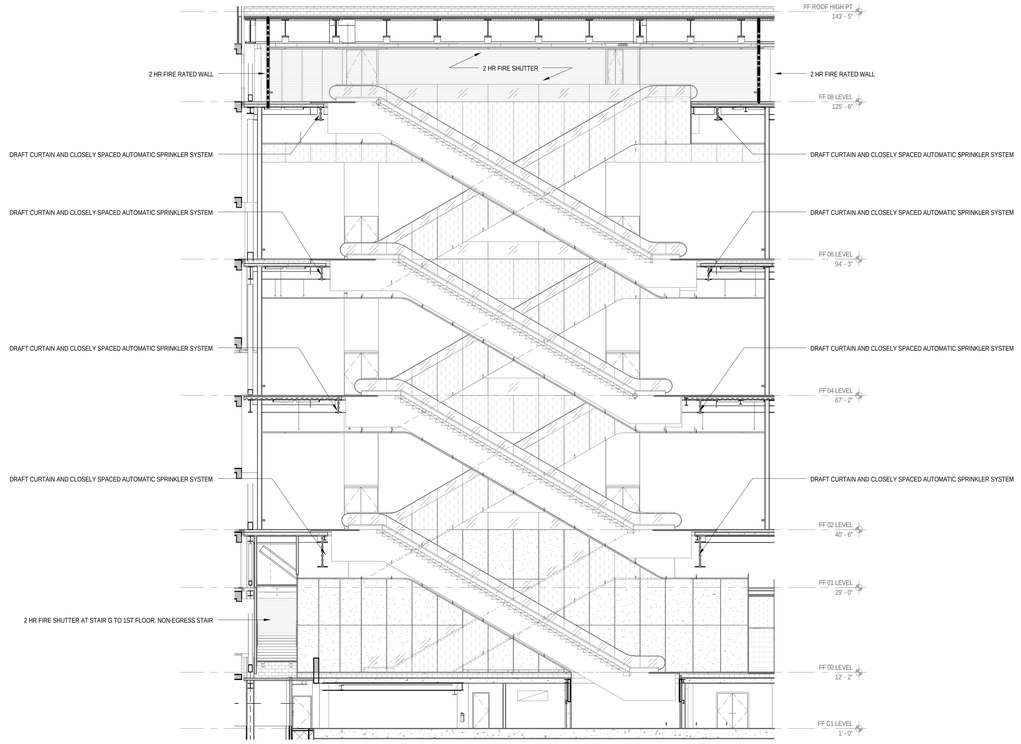


LIFE SAFETY ESCALATOR SHAFTWAY ENCLOSURE DIAGRAM - N-S

2

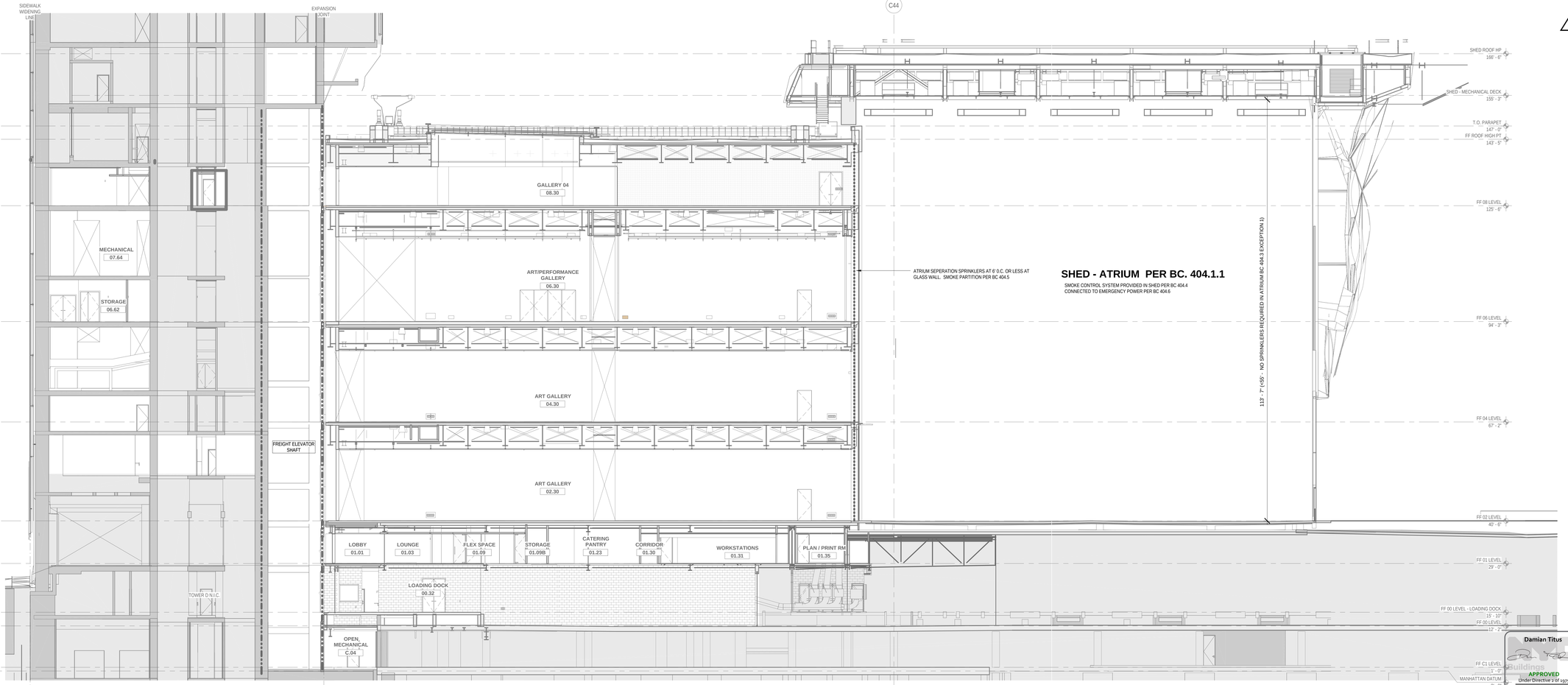
3/32" = 1'-0"



LIFE SAFETY ESCALATOR SHAFTWAY ENCLOSURE DIAGRAM - E-W

3

3/32" = 1'-0"



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LIFE SAFETY ATRIUM SEPERATION DIAGRAM

1

3/32" = 1'-0"

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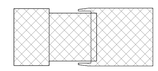

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PROJECT NUMBER 11017

TITLE
LIFE SAFETY SECTIONS

DRAWING NO.
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A-042.01

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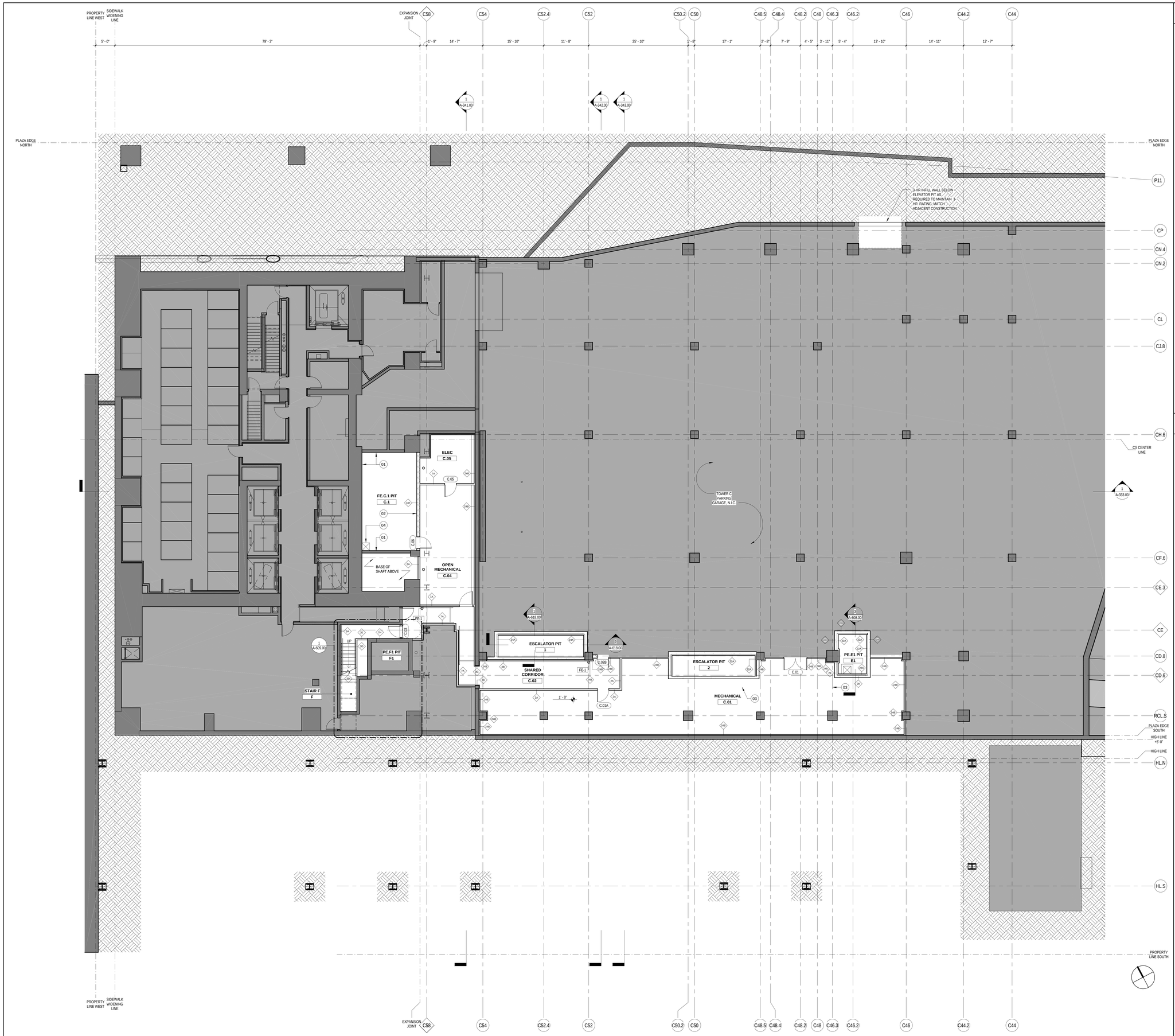

LEGEND

(XX)

01 ~~PROVIDE FLUID APPLIED VAPOR BARRIER TO EXISTING CONCRETE WALLS INSIDE ELEVATOR SHAFT~~

02 PROVIDE FLUID APPLIED VAPOR BARRIER TO SCHEDULED PARTITION INSIDE SHAFT AT ALL LEVEL

03 EXISTING FLOOR DRAIN TO REMAIN - SCOPE BY OTHERS

04 SUMP PIT - SEE PLUMBING DRAWINGS

GENERAL NOTES

1. REFER TO LIFE SAFETY DRAWINGS FOR FIRE RATINGS.

2. ONLY NON-PAPER FACED, MOLD RESISTANT GYPSUM BOARD SHALL BE USED BELOW LEVEL 00 (OR BELOW MBD 10'-6").

3. ALL INSULATION INSTALLED BELOW LEVEL 00 SHALL BE SPRAYED POLYURETHANE FOAM OR CLOSED-CELL PLASTIC FOAM. INSULATION SHALL BE SEPARATED BY A MINIMUM OF 1/2" THICK GYPSUM BOARD. SEE PARTITION TYPES AND SCHEDULES FOR LOCATIONS AND DETAILS.

Damian Titus
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Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
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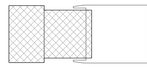
KEY PLAN



ISSUE		PRINTING	DATE
44	33	DOB AMENDMENT 5	04.08.2016
19		DOB AMENDMENT 3	09.16.2015
13		DOB AMENDMENT 1	08.03.2015
12	6	ADDENDUM 1	07.22.2015
10	4	100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

STAMP

REGISTERED ARCHITECT RICARDO SCOFIDIO 008600 STATE OF NEW YORK

DRAWN BY MS
CHECKED BY MS

PROJECT NUMBER
11017

TITLE
FLOOR PLAN FIXED BUILDING C1

DRAWING NO.
A-1C1.00

B-SCAN NO.
A-099.00

291

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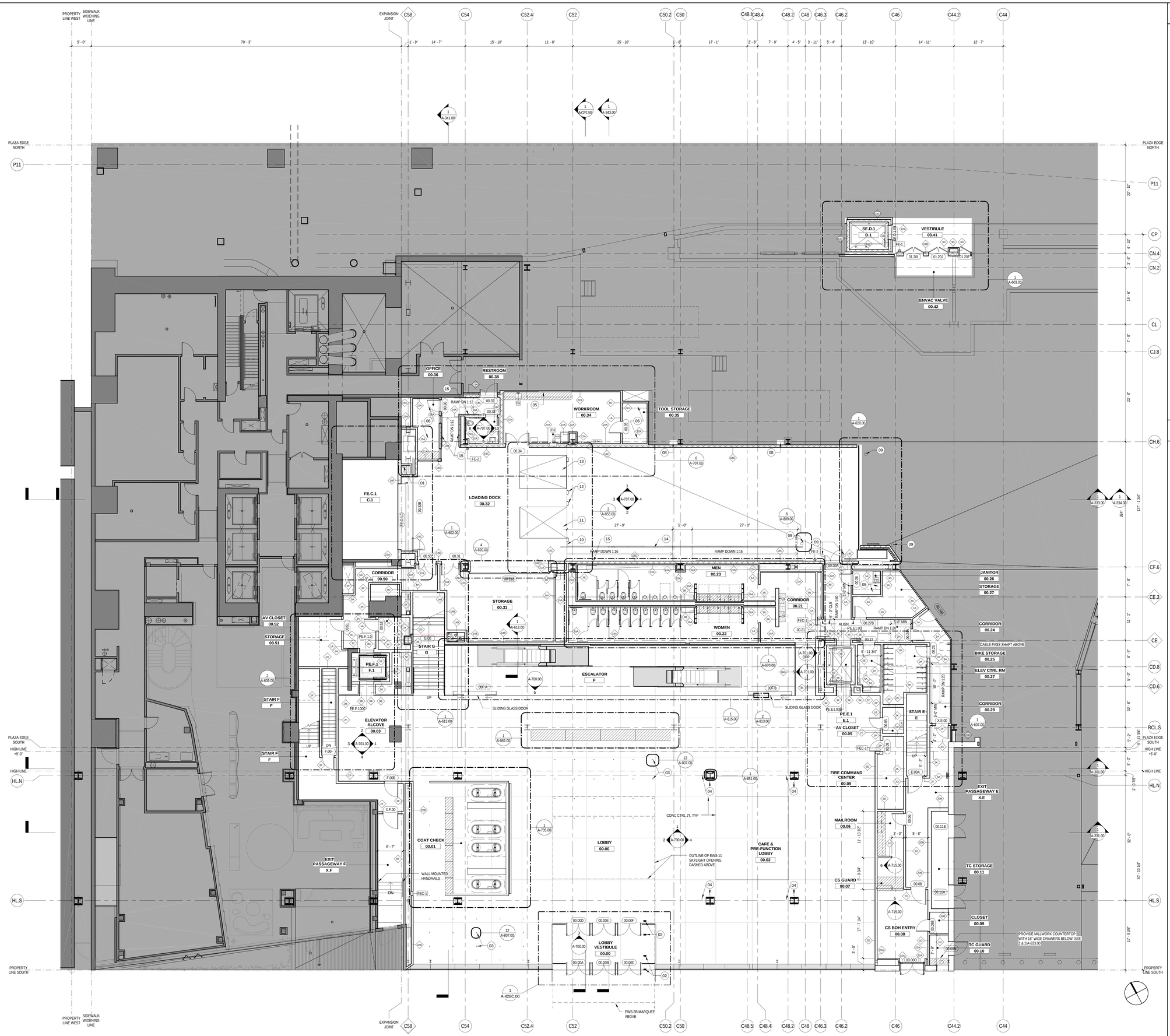

LEGEND

01	EXPANSION JOINT COVER AT FLOOR AND WALL. SEE B00 SERIES DWGS.
02	STL POST FOR ADA PUSH BUTTON, 42" HIGH X 6" WIDE X 3" DEEP. TYP OF (4)
03	REMOVABLE ST STL STANCHION IN EMBEDDED INSERT WITH BLANK CAP AT EACH INSTANCE, SEE FLOOR DTLS
04	CUSTOM REMOVABLE ST STL PIPE & ST STL INSERT WITH BLANK CAP AT EACH INSTANCE, SEE FLOOR DTLS
05	(4X) ADJUSTABLE SHELVES AT EACH WALL, SEE MLWK DWGS
06	(8X) ADJUSTABLE SHELVES AT EACH WALL, SEE MLWK DWGS
08	LOADING DOCK EXHAUST, SEE MECH DWGS
09	8" DIA CONCRETE FILLED STL BOLLARD W/ BOLLARDGARD COVER
10	PROVIDE (2X) PAIRS OF WHEEL CHOCKS ON 10'-0" CHAINS - ANCHOR ONE CHOCK TO EACH SIDE OF DOCK LEVELER AND DOCK LIFT
11	DOCK LIFT E-18 - SEE EQUIPMENT SCHEDULE
12	PROVIDE (4X) DOCK BUMPERS - SURFACE MOUNT TO FACE OF DOCK WALL ADJACENT DOCK LIFT AND LEVELER AS INDICATED
13	DOCK LEVELER E-17 - SEE EQUIPMENT SCHEDULE
14	PTD HANDRAIL/GUARDRAIL
15	WALL MTD HRAIL

GENERAL NOTES

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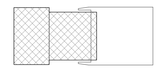

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REGISTERED ARCHITECT RICHARD SCOFIDIO STATE OF NEW YORK 009800

DRAWN BY JD
CHECKED BY MS

PROJECT NUMBER
11017

TITLE

FLOOR PLAN FIXED BUILDING 00 LEVEL (TD BASEMENT)

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
A-100.00

B-SCAN NO.
A-100.00

291

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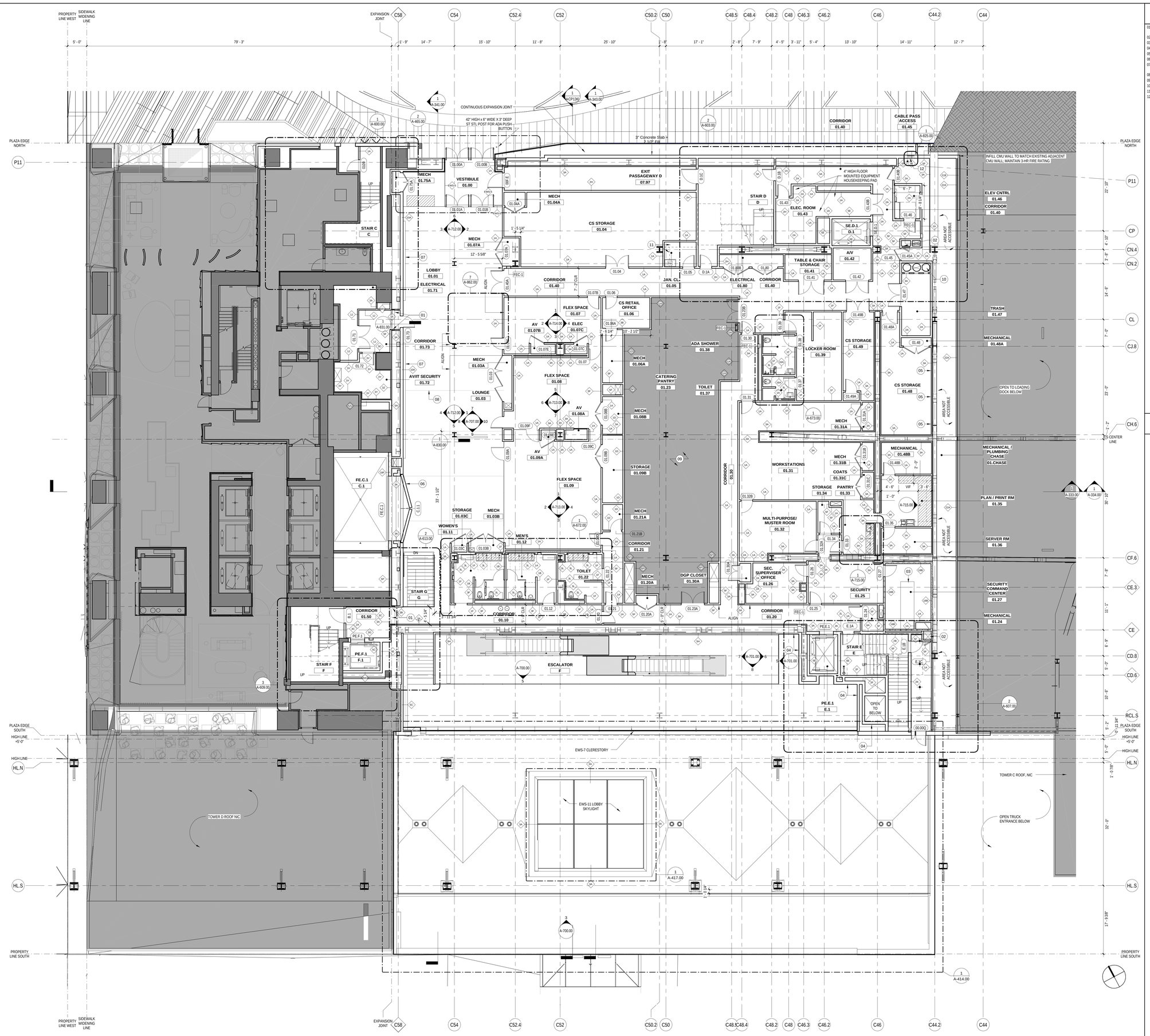

LEGEND

01	EXPANSION JOINT COVER AT FLOOR AND WALL. SEE 800 SERIES DWGS.
02	CABLE PASS SHAFT TO ROOF ABOVE
03	SECURITY DESK. SEE SECURITY DWGS.
04	SEE FLOOR PLAN BELOW FOR ALL UNTAGGED PARTITIONS
05	24" x 24" ACCESS PANEL
06	CUSTOM FLUSH GYP BOARD PIVOT DOORS
07	ORNAMENTAL MTL DIGITAL SIGNAGE SHELF - SEE 800 SERIES. SC + ELEC DWGS
08	CONCRETE CTR. JT. TYP
09	NOT IN SCOPE
10	ENVAC CHUTE
11	(4X) ADJUSTABLE SHELVES AT EACH WALL. SEE MLWK DWGS
12	CABLE PASS SYSTEM AT EXTERIOR WALL W/ OPERABLE STONE PANEL FOR ACCESS

GENERAL NOTES

1. REFER TO LIFE SAFETY DRAWINGS FOR FIRE RATINGS.
2. REFER TO A-521 FOR ALL PUBLIC RESTROOMS

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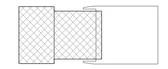
KEY PLAN



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REGISTERED ARCHITECT REVOKED ROOFED STATE OF NEW YORK 026800

DRAWN BY JD
CHECKED BY MS

PROJECT NUMBER 11017

TITLE

FLOOR PLAN FIXED BUILDING 01 LEVEL

DRAWING NO.

A-101.00

B-SCAN NO.

A-101.00

291

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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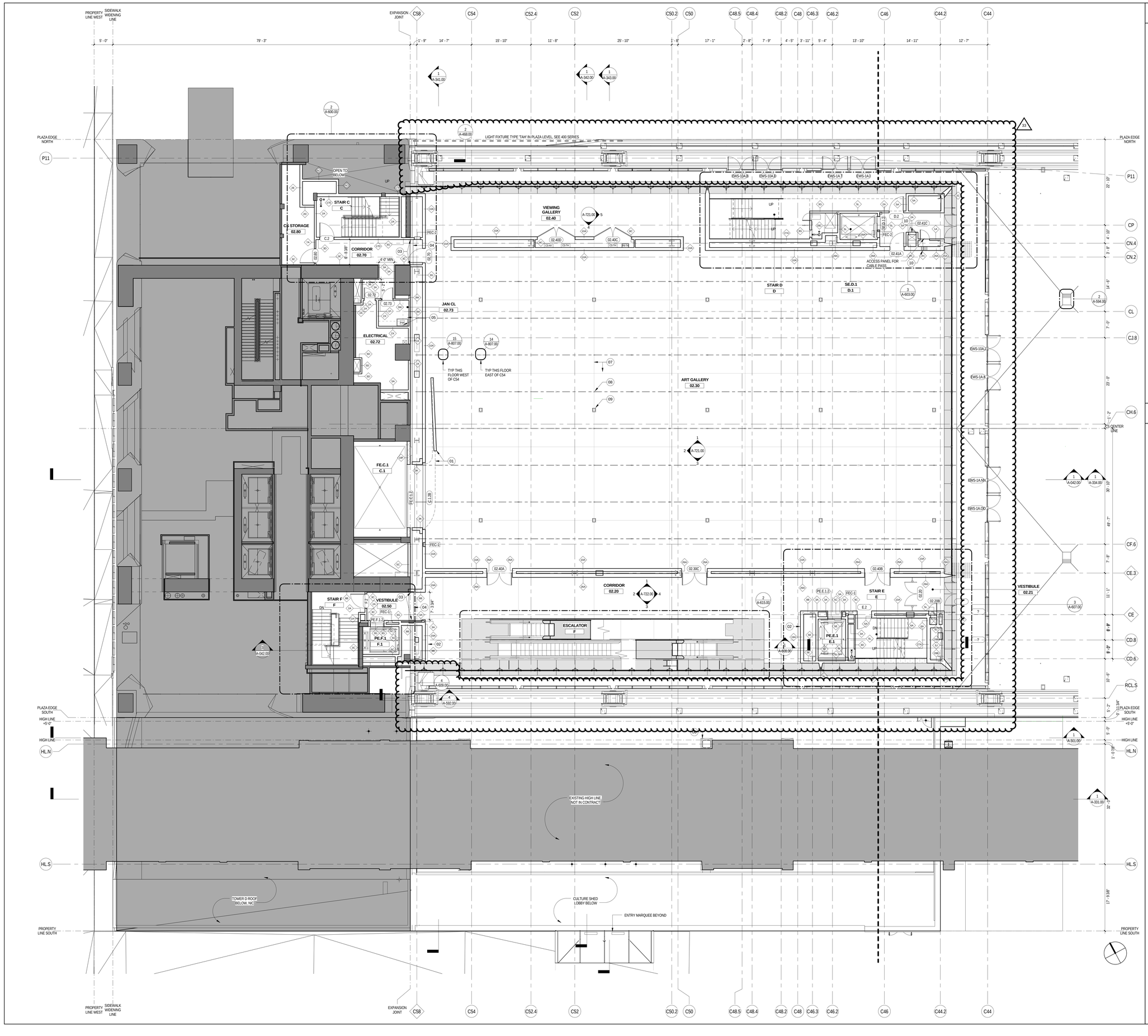
DEPT OF BLDGS 421102297 Job Number
E3995650095 Scan Code



LEGEND

01	~~OPERABLE WALL AND WALL TRACK, SEE 600 SERIES FREIGHT ELEVATOR DETAILS~~
02	ORNAMENTAL MTL DIGITAL SIGNAGE SHELF - SEE 800 SERIES, SC + ELEC DWGS
03	FINISH WALL EXPANSION JT COVER - SEE A808.00
04	FINISH FLR EXPANSION JOINT COVER, SEE A808.00
05	(4X) ADJUSTABLE SHELVES AT EACH WALL, SEE MLWK DWGS
06	REHABILITATED HIGHLINE COLUMN - SEE A851.00 FOR COLUMN REQUIREMENTS AND SCOPE
07	CONC CTRL JT, TYP
08	EMBEDDED FLUSH INSERTS FOR TEMP ART WALL SUPPORT, TYP - SEE A807.00
09	FLUSH FLOOR BOX - SEE A807.00, AV, SC, ELEC & DEVICE DWGS, TYP
10	CABLE PASS SYSTEM

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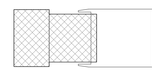

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CHECKED BY MS

PROJECT NUMBER 11017

TITLE
FLOOR PLAN FIXED BUILDING 02 LEVEL

DRAWING NO.
A-102A.01

B-SCAN NO.
A-102.01

291

Damian Titus
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APPROVED
Under Directive 2 of 1975
MENDMENT APPLICATION
Date: 07/15/2016
NYC Development Hub

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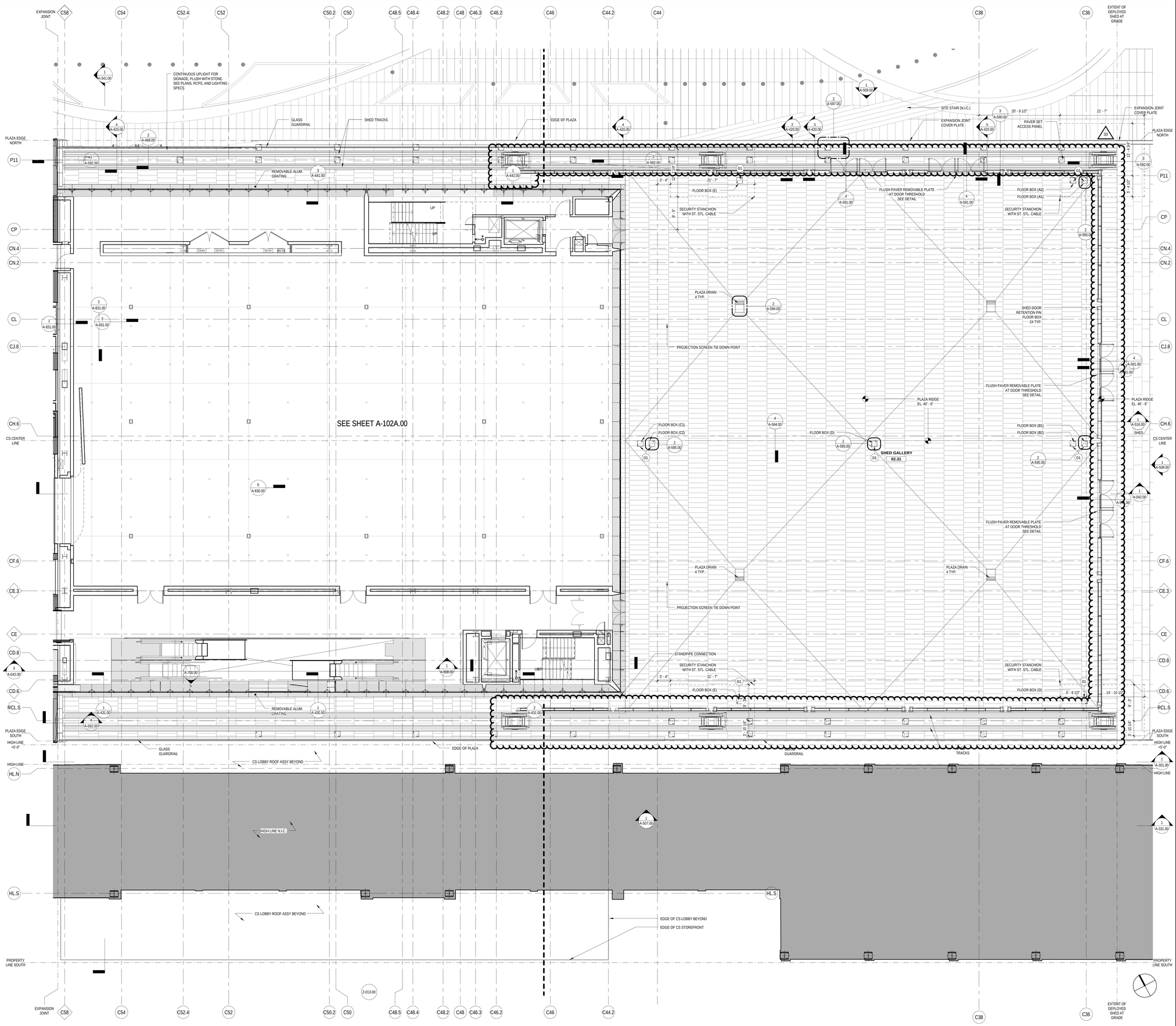
B520571783 Scan Code



FLOOR PLAN - PLAZA - LEVEL 02

1

1/8" = 1'-0"

LEGEND

XX

01 ADD ALTERNATE TO ROUTE ALL ELECTRICAL AND DATA CONDUIT TO PLAZA FLOOR BOXES WITHIN THE CEILING OF THE TOWER C PARKING GARAGE. INCLUDE SLAB CORE DRILLING, CAST-IN SLEEVES, FIREPROOFING AND WATERPROOFING.

GENERAL NOTES

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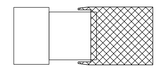

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STAMP

REGISTERED ARCHITECT RICHARD SCOFIDIO STATE OF NEW YORK 009800

DRAWN BY JD
CHECKED BY MS

PROJECT NUMBER
11017

TITLE
FLOOR PLAN PLAZA LEVEL

DRAWING NO.
A-102B.01

B-SCAN NO.
A-103.01

291

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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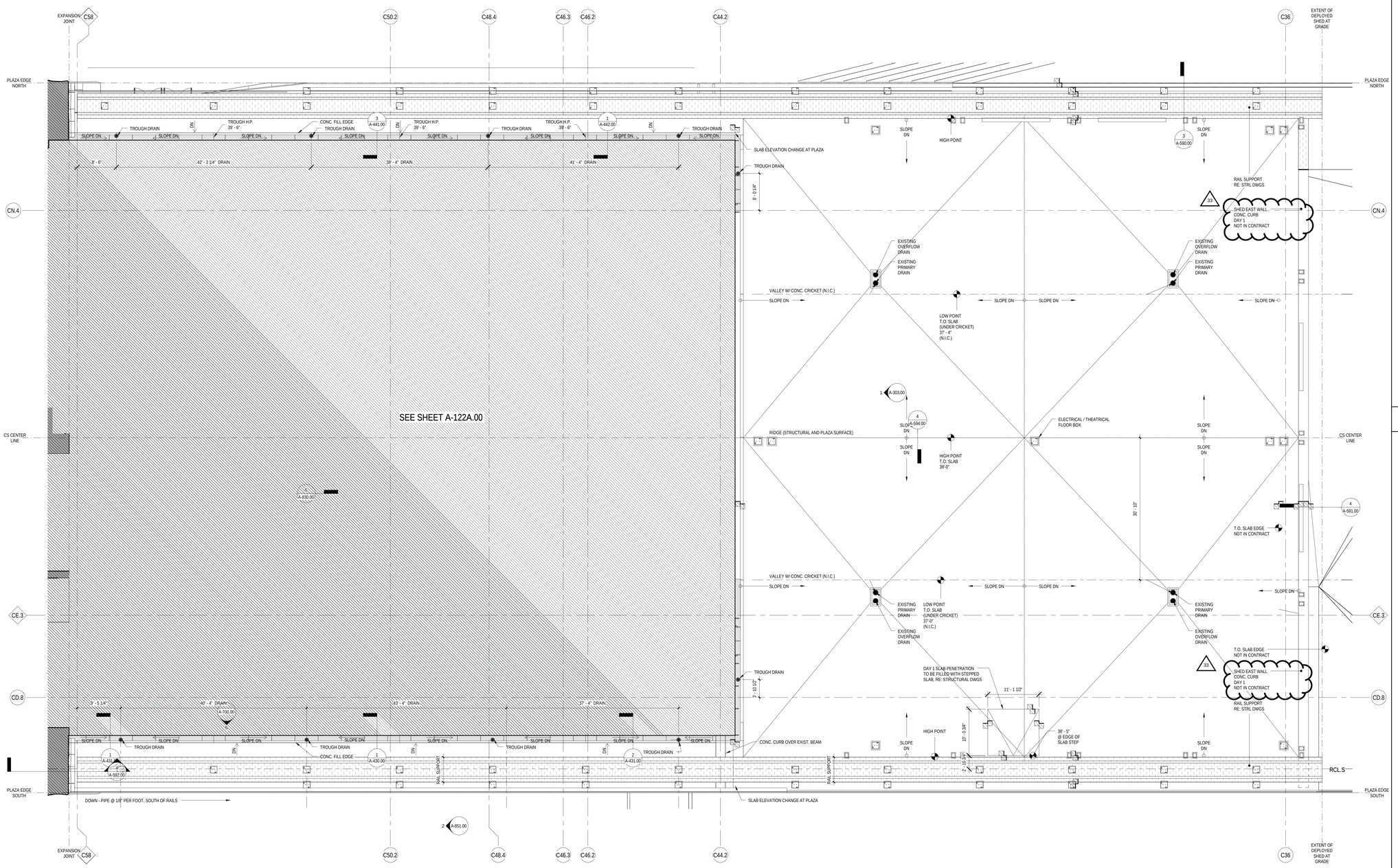
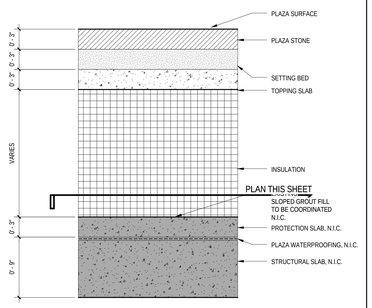
B00656398595 Scan Code





KEY

TYPICAL PLAZA ASSEMBLY
RE: DETAIL 3 / A-594.00

PLAZA SUBSURFACE - LEVEL 02B

1
1/8" = 1'-0"

LEGEND

XX

GENERAL NOTES

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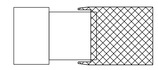
KEY PLAN



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44	33	DOB AMENDMENT 5	04.08.2016
19		DOB AMENDMENT 3	09.16.2015
13		DOB AMENDMENT 1	08.03.2015
10	4	100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

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REGISTERED ARCHITECT RICARDO SCOFIDIO STATE OF NEW YORK 008800

DRAWN BY JD
CHECKED BY MS

PROJECT NUMBER
1.1017

TITLE
FLOOR PLAN PLAZA - SUBSURFACE

DRAWING NO.
A-102C.01

B-SCAN NO.
A-104.01

291

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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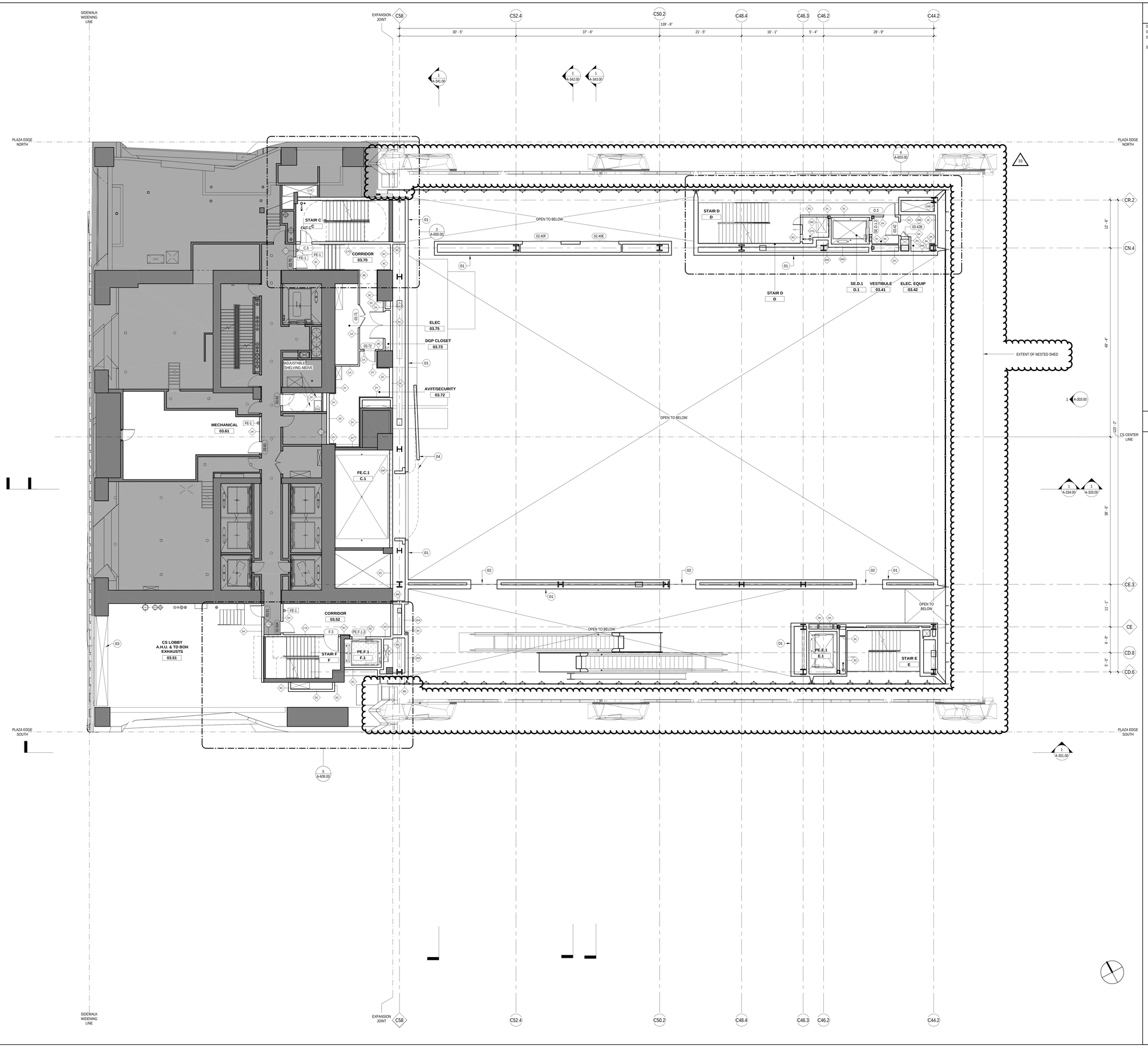
E302498574X9 Scan Code



LEGEND

XX	
01	SEE FLOOR PLAN BELOW FOR ALL UNTAGGED PARTITIONS
02	GLI-1 TRANSOM
03	PLENUM - WATERPRROFING SLOPED TO DRAIN - SEE MECH / PLUMBING DWGS
04	OPERABLE WALL AND WALL TRACK, SEE 600 SERIES FREIGHT ELEVATOR DETAILS

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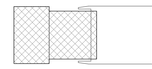

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REGISTERED ARCHITECT RICARDO SCOFIDIO 026800 STATE OF NEW YORK

DRAWN BY JD
CHECKED BY MS

PROJECT NUMBER
11017

TITLE
FLOOR PLAN FIXED BUILDING 03 LEVEL

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
A-103.01

B-SCAN NO.
A-105.01

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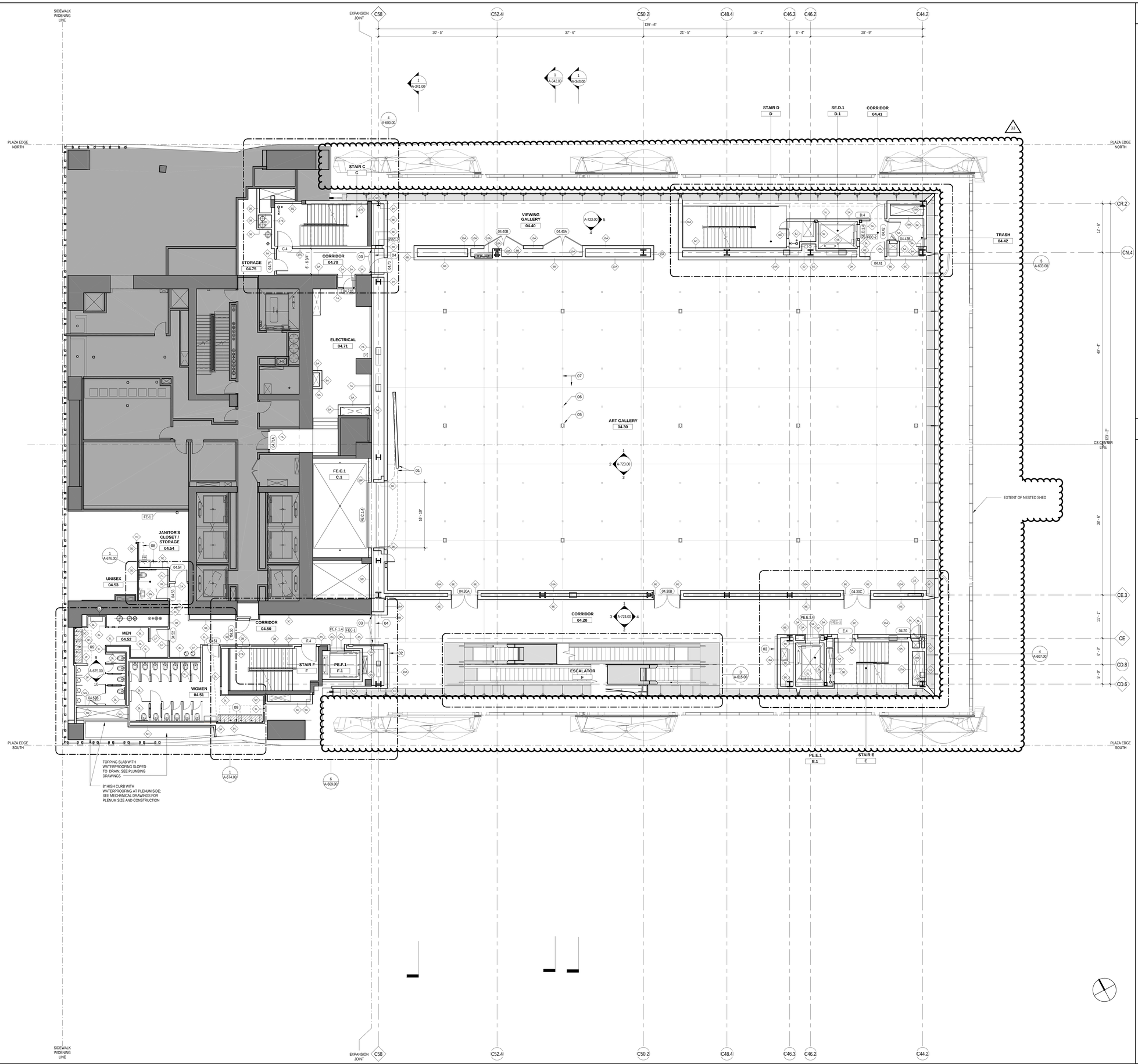

LEGEND

01	OPERABLE WALL AND WALL TRACK; SEE 600 SERIES FREIGHT ELEVATOR DETAILS
02	ORNAMENTAL MTL DIGITAL SIGNAGE SHELF - SEE 800 SERIES, SC + ELEC DWGS
03	FINISH WALL EXPANSION JT COVER - SEE A808.00
04	FINISH FLR EXPANSION JOINT COVER; SEE A808.00
05	FLUSH FLOOR BOX - SEE A807.00, AV, SC, ELEC & DEVICE DWGS, TYP
06	EMBEDDED FLUSH INSERTS FOR TEMP ART WALL SUPPORT, TYP - SEE A807.00
07	CONC CTRL JT, TYP
08	(4X) ADJUSTABLE SHELVES AT EACH WALL, SEE MLWK DWGS
09	FIN TUBE RADIATOR AND FLUSH ARCHITECTURAL GRILLE SEE A-860 AND MECH DRAWINGS

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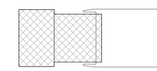

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REGISTERED ARCHITECT RICARDO SCOFIDIO 008800 STATE OF NEW YORK

DRAWN BY JO
CHECKED BY MS

PROJECT NUMBER
11017

TITLE
FLOOR PLAN FIXED BUILDING 04 LEVEL

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
A-104.01

B-SCAN NO.
A-106.01
291

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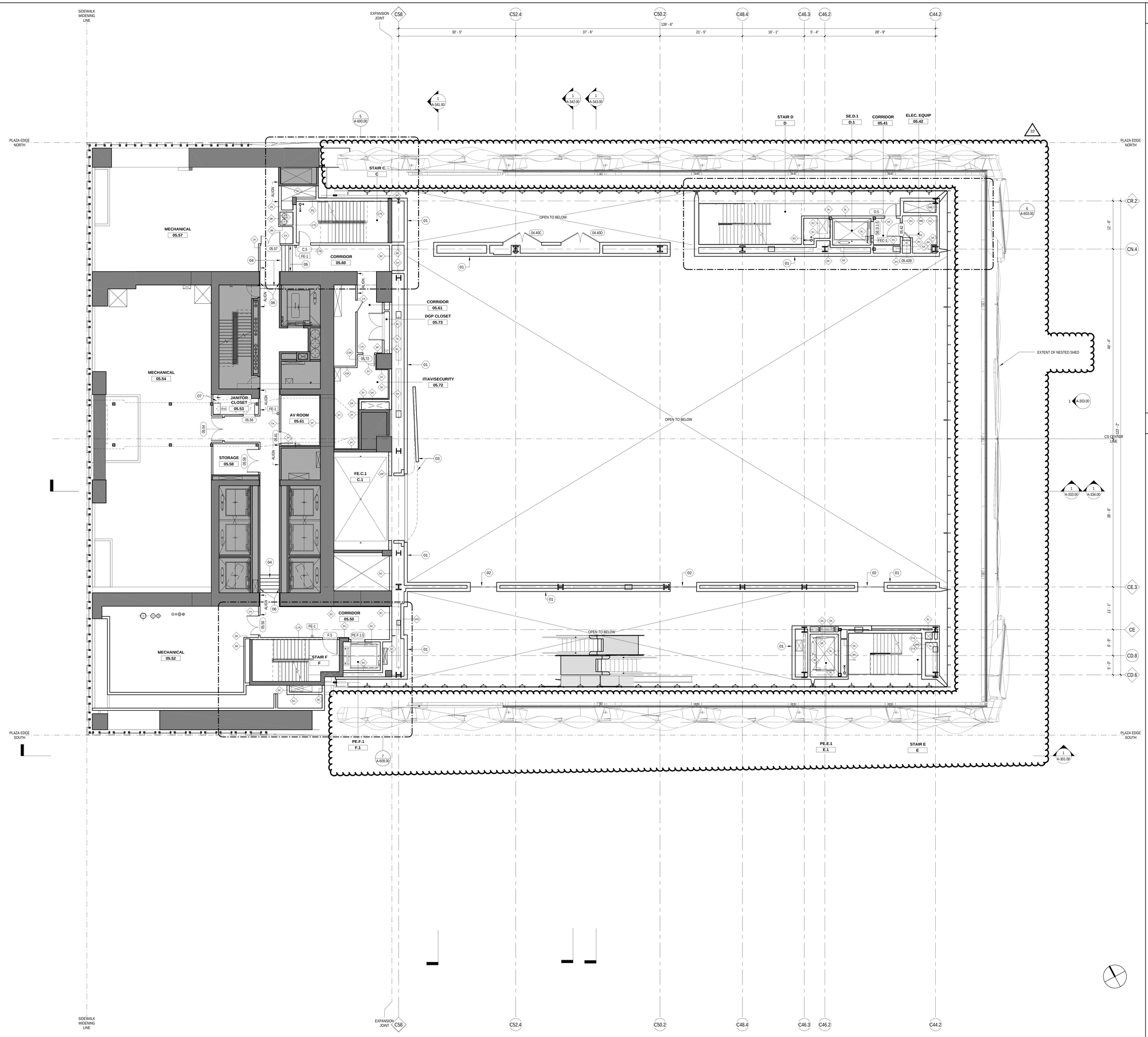
B2525107/01 Scan Code



LEGEND

01	SEE FLOOR PLAN BELOW FOR ALL UNTAGGED PARTITIONS
02	GLI-1 TRANSOM
03	OPERABLE WALL AND WALL TRACK, SEE 600 SERIES FREIGHT ELEVATOR DETAILS
04	TREAD AND RISERS NIC
06	PROVIDE PTD WALL MTD HRAILS
07	(4X) ADJUSTABLE SHELVES AT EACH WALL, SEE MLWK DWGS

GENERAL NOTES

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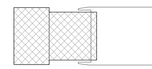

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6		PRELIMINARY DOB SUBMISSION	12.10.2014

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REGISTERED ARCHITECT RICARDO SCOFIDIO 008600 STATE OF NEW YORK

DRAWN BY JD
CHECKED BY MS

PROJECT NUMBER
11017

TITLE
FLOOR PLAN FIXED BUILDING 05 LEVEL

DRAWING NO.
A-105.01

B-SCAN NO.
A-107.01

291

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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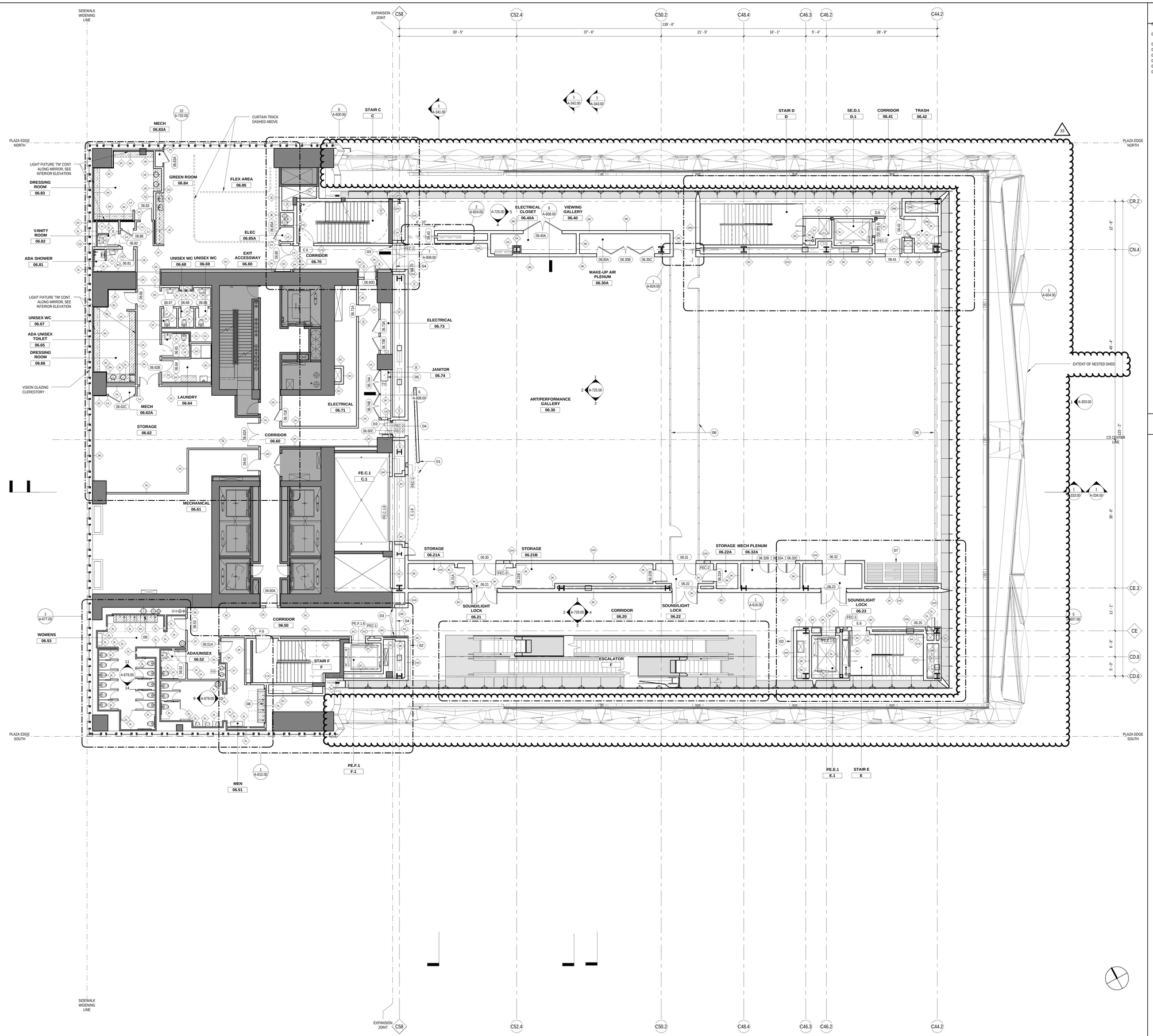

LEGEND

XX

01 OPERABLE WALL AND WALL TRACK, SEE 600 SERIES FREIGHT ELEVATOR DETAILS
02 ORNAMENTAL MTL DIGITAL SIGNAGE SHELF - SEE 800 SERIES, SC + ELEC DWGS
03 FINISH WALL EXPANSION JT COVER - SEE A808.00
04 FINISH FLR EXPANSION JOINT COVER, SEE A808.00
05 (4X) ADJUSTABLE SHELVES AT EACH WALL, SEE MLWK DWGS
06 OPERABLE PARTITIONS IN DEPLOYED POSITIONS
07 OPERABLE PARTITIONS IN NESTED POSITIONS
08 FIN TUBE AND ARCHITECTURAL GRILLE, SEE A-860 AND MECH DRAWINGS

GENERAL NOTES

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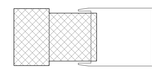

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CHECKED BY MS

PROJECT NUMBER
11017

TITLE

FLOOR PLAN FIXED BUILDING 06 LEVEL

DRAWING NO.
A-106.01

B-SCAN NO.
A-108.01

291

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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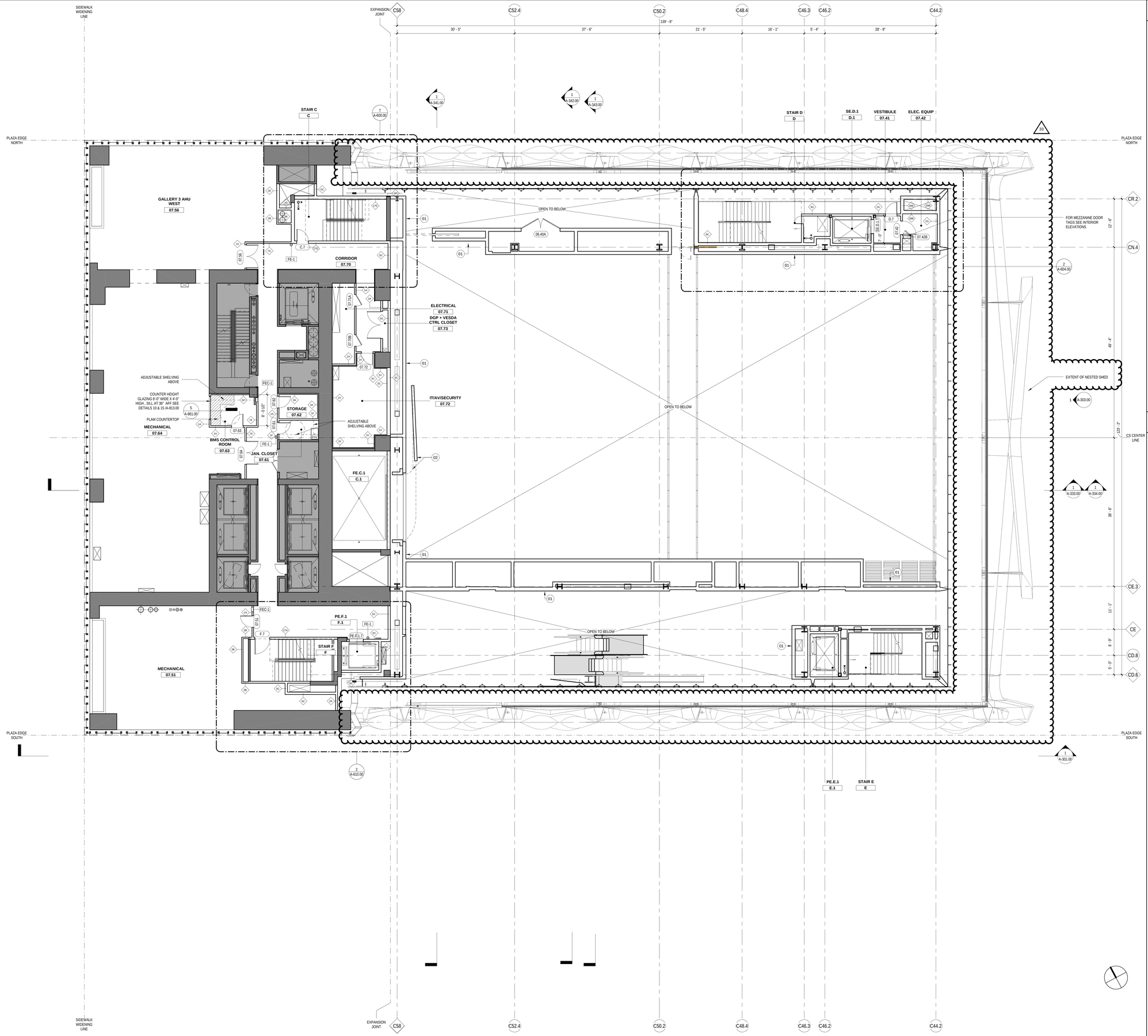
E352670454/1 Scan Code



LEGEND

XX

01 SEE FLOOR PLAN BELOW FOR ALL UNTAGGED PARTITIONS
02 CUSTOM FLUSH GYP BOARD PIVOT DOORS

GENERAL NOTES

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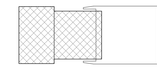

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44	33	DOB AMENDMENT 5	04.08.2016
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10	4	100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

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REGISTERED ARCHITECT RICARDO SCOFIDIO STATE OF NEW YORK 008600

DRAWN BY JD
CHECKED BY MS

PROJECT NUMBER
11017

TITLE

FLOOR PLAN FIXED BUILDING 07 LEVEL

Damian Titus
Buildings
APPROVED
Under Directive 1 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
A-107.01

B-SCAN NO.
A-109.01
291

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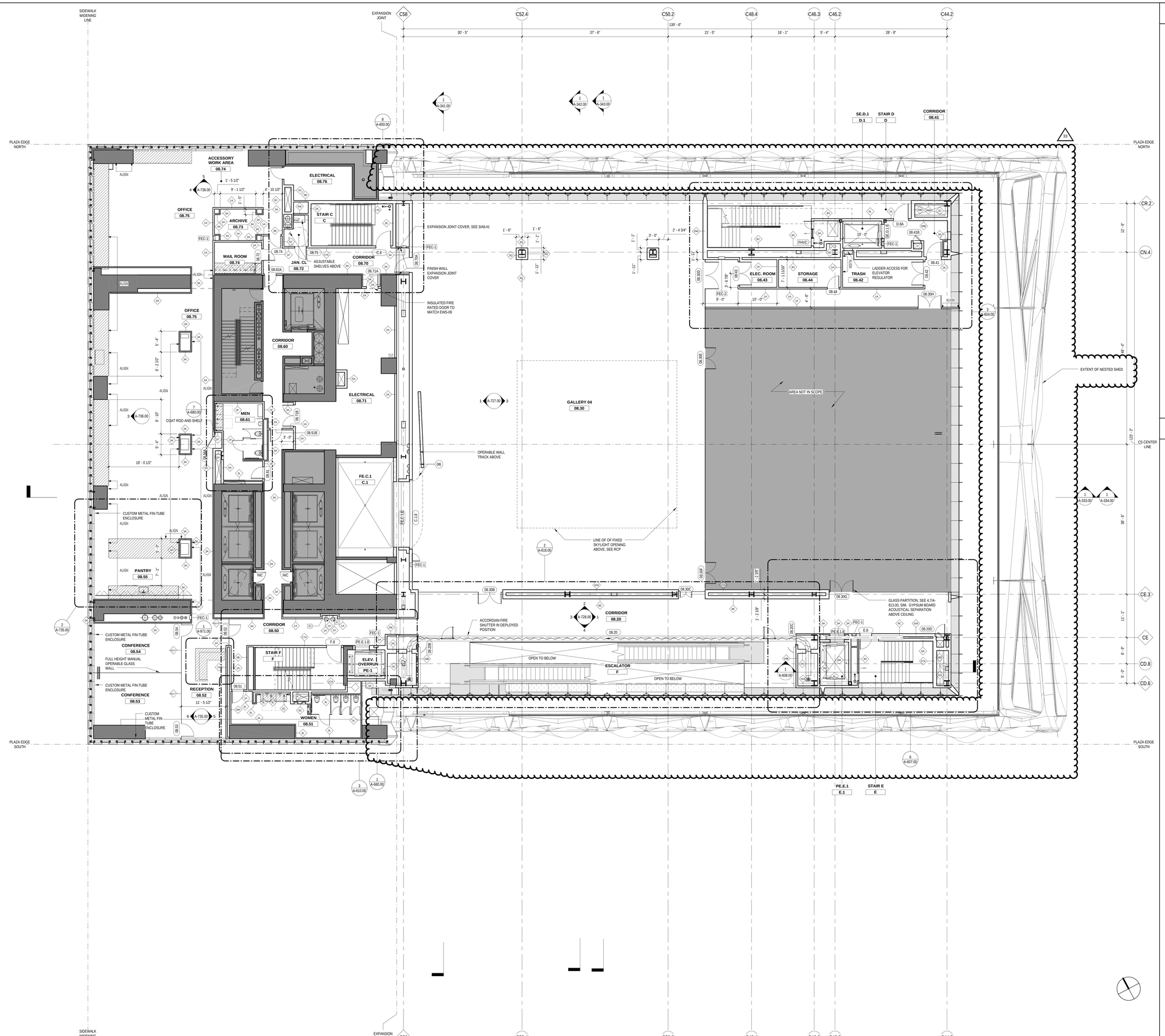
E5047934025 Scan Code



LEGEND

GENERAL NOTES

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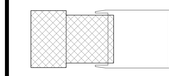

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REGISTERED ARCHITECT RICARDO SCOFIDIO 008800 STATE OF NEW YORK

DRAWN BY JO
CHECKED BY MS

PROJECT NUMBER
11017

TITLE
FLOOR PLAN FIXED BUILDING 08 LEVEL

DRAWING NO.
A-108.01

B-SCAN NO.
A-110.01
291

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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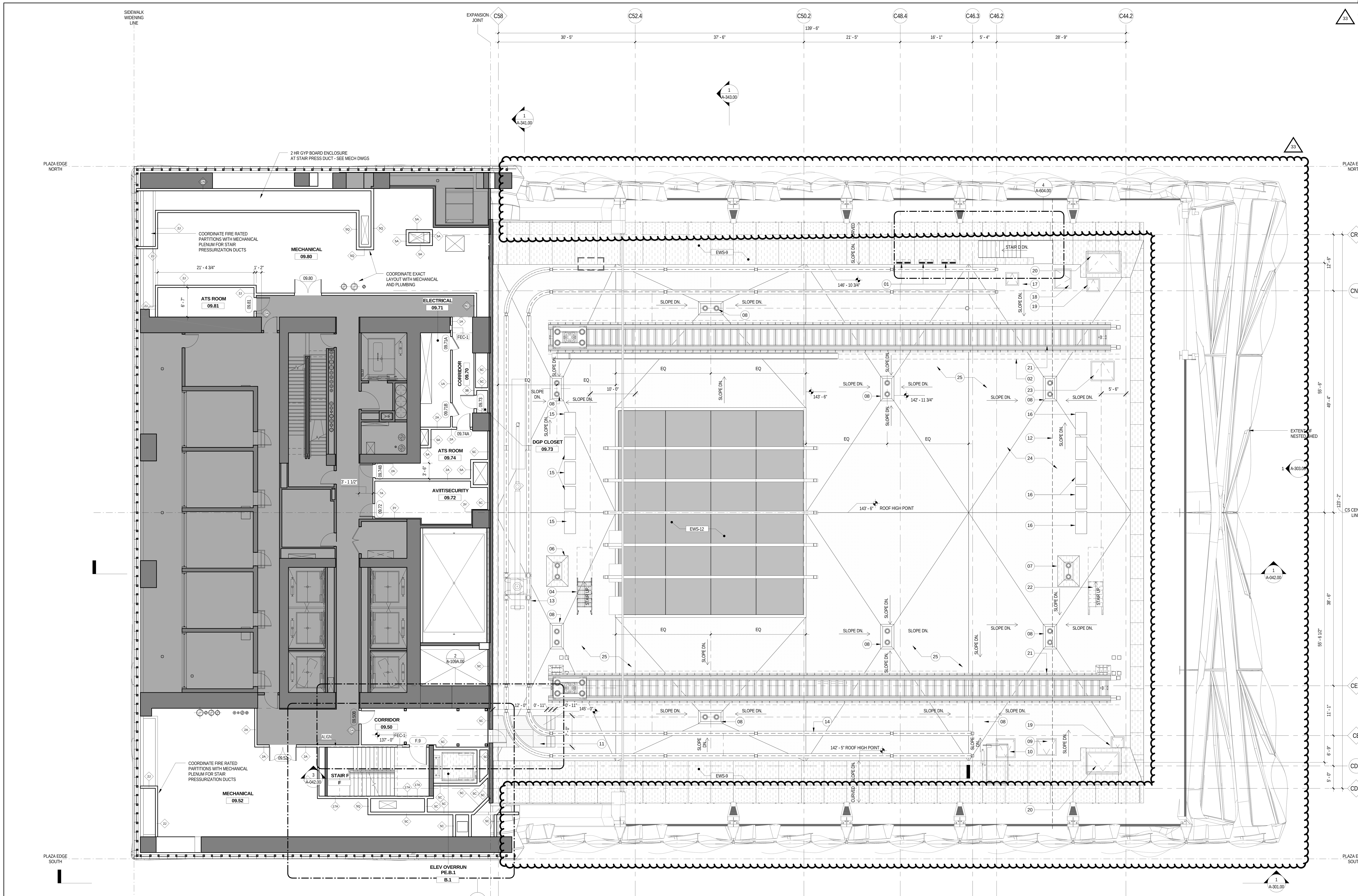

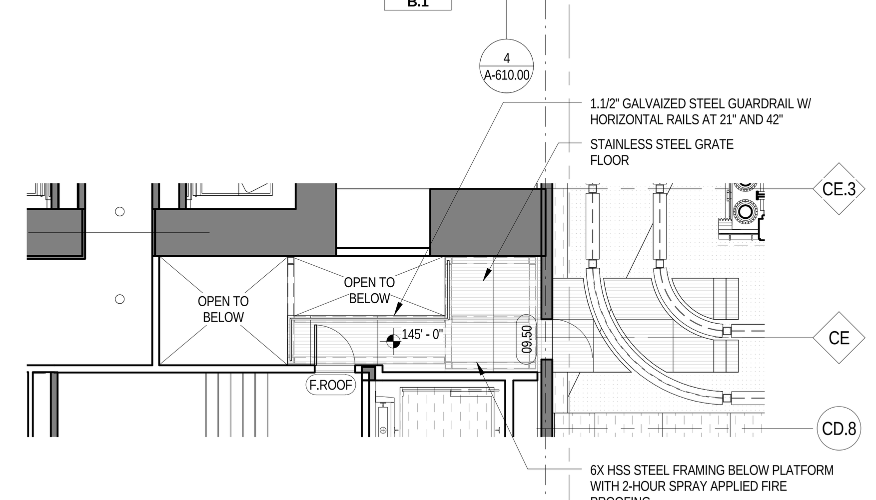

ROOF ACCESS PLATFORM 2 — 1/8" = 1'-0"

DEPT OF BLDGS 121192397 Job Number

ES754445869 Scan Code

LEGEND

01	~~(3) 20"H x 38"L SIDE WALL LOUVERS AT 50% OPEN AT~~ PARAPET WALL FOR STAIR VENTING
02	KEEP AREA CLEAR FOR SHED CABLE TRACK SYSTEM
04	ACCESS STAIR FROM SHED MECHANICAL DECK IN NESTED POSITION; SEE SHED DRAWINGS FOR CONNECTION TO FIXED BUILDING ROOF
06	DRAINAGE TROUGH WITH CURB PERIMETER (FOR NESTED SHED)
07	DRAINAGE TROUGH WITH CURB PERIMETER (FOR DEPLOYED SHED)
08	ROOF AND OVERFLOW DRAIN
09	36" x 44" SMOKE ROOF HATCH WITH FUSIBLE LINK FOR STAIR E
10	42" x 42" SMOKE ROOF HATCH WITH FUSIBLE LINK FOR ELEVATOR PE.E.1SMOKE VENTING AND ACCESS
11	STAINLESS STEEL BAR GRATE WITH GALVANIZED STEEL TUBE POSTS AND FRAMING, COORDINATE GRATE AROUND BMU TRACK CLEARANCES
12	EXTENT OF DEPLOYED SHED ABOVE
13	FACADE MAINTENANCE UNIT IN STORED POSITION
14	FACADE MAINTENANCE UNIT RAILS
15	CAMLOCK CABINET ENCLOSURE FOR NESTED SHED, REFER TO ELECTRICAL DRAWINGS AND DRAWINGS 1/A-423.00 AND 4/A-485.00
16	CAMLOCK CABINET ENCLOSURE FOR DEPLOYED SHED, REFER TO ELECTRICAL DRAWINGS AND 4/A-485.00
17	ROOF HATCH EQUIPMENT ACCESS
18	SE.D.1 ELEVATOR AUTOMATIC SMOKE ROOF HATCH
19	ROOF HATCH WITH (8) FIRE RATED CABLE PASS THROUGHS AT ROOF SLAB
20	46" x54" ROOF HATCH FOR MECHANICAL DUCT CONNECTION TO DEPLOYED SHED, SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
21	SLED DRIVE WITH FIXED TRACK ASSEMBLY AND POWER CHAIN WITH STL. SUPPORT POSTS
22	ACCESS STAIR FROM SHED MECHANICAL DECK IN DEPLOYED POSITION; SEE SHED DRAWINGS FOR CONNECTION TO FIXED BUILDING ROOF
23	54" x 38" ROOF HATCH FOR MECHAINCAL WATER CONNECTIONS TO DEPLOYED SHED, REFER TO MECHANICAL AND FIRE PROTECTION DRAWINGS.
24	PROVIDE COLD-FLUID APPLIED WATERPROOFING ASSEMBLY ON SURFACES SHOWN SHADED.
25	FOR LIGHT TYPE FR SEE ELECTRICAL DRAWING E-210

GENERAL NOTES

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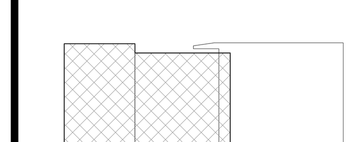

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6		PRELIMINARY DOB SUBMISSION	12.10.2014
1		ADV. PROCUREMENT BID SET	06.16.2014

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REGISTERED ARCHITECT RICARDO SCOFIDIO 008800 STATE OF NEW YORK

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
NYC Development Hub

DRAWN BY MS
CHECKED BY MS

PROJECT NUMBER
11017

TITLE
FLOOR + ROOF PLAN FIXED BUILDING 09 LEVEL

DRAWING NO.
A-109A.01

B-SCAN NO.
A-111.01

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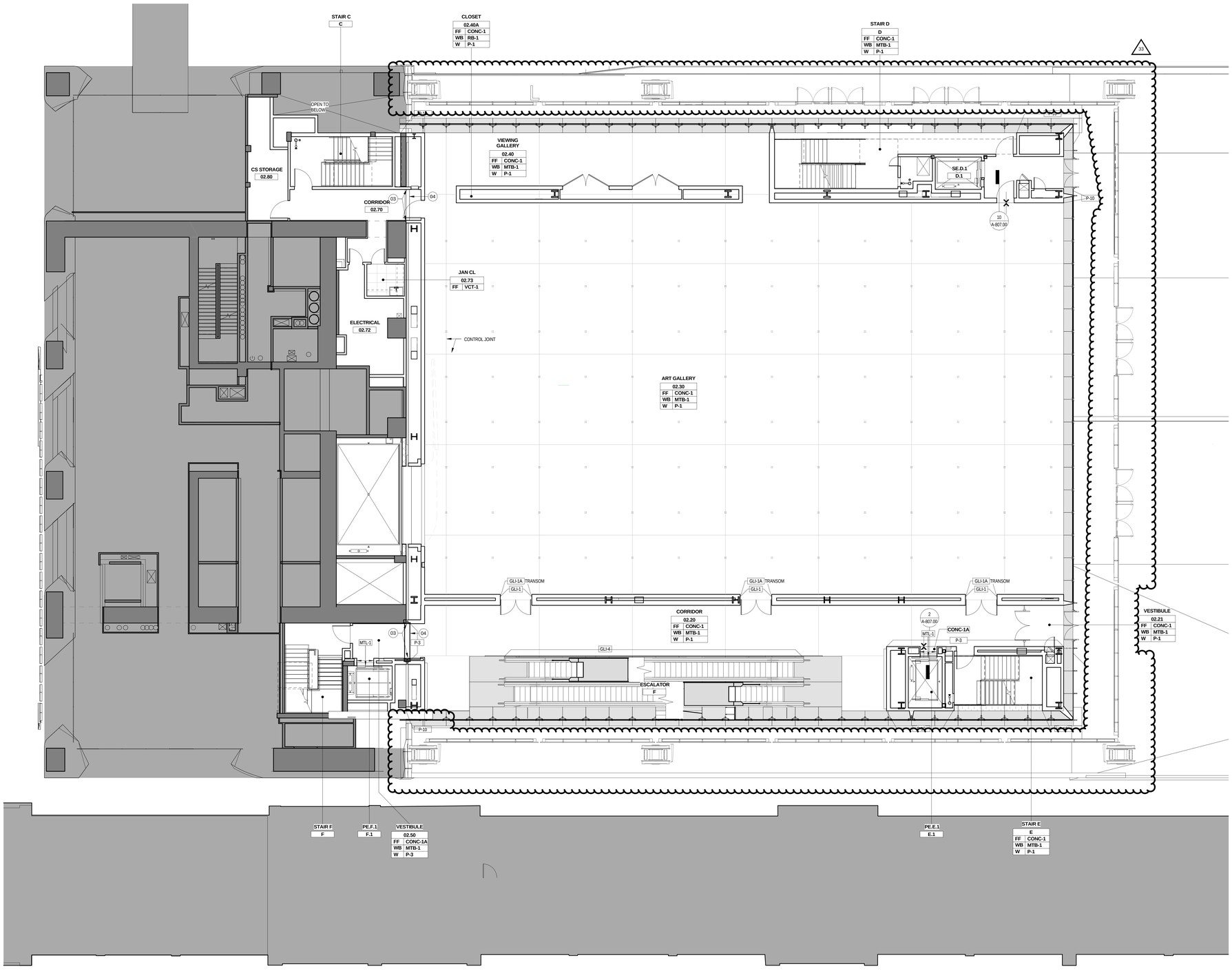
E587613739 Scan Code



LEGEND

FLOOR MATERIAL TRANSITION

GENERAL NOTES

1. ALL FLOORS AT THIS LEVEL TO BE FINISHED WITH CONC-2, UNLESS OTHERWISE NOTED

2. ALL WALLS TO BE FINISHED WITH P-2, UNLESS OTHERWISE NOTED

4. ALL WALLS WITH P-1 & P-3TO BE APPLIED TO A LEVEL 5 GYPSUM BOARD FINISH, UNLESS OTHERWISE NOTED. ALL OTHER GYPSUM BOARD WALLS TO RECEIVE LEVEL 4 FINISH.

5. ALL WALL BASES TO BE RB-1, UNLESS OTHERWISE NOTED

6. ALL STAIR TREADS, RISERS AND LANDINGS ON THIS LEVEL IN STAIR 'C' & 'F' ARE CONC-2, UNLESS OTHERWISE NOTED

7. ALL STAIR TREADS AND LANDINGS ON THIS LEVEL IN STAIR 'D' & 'E' ARE CONC-1

8. ALL METAL STAIR STRINGERS AND RISERS IN STAIR 'D' & 'E' TO BE P-3.

9. ALL HANDRAILS TO BE P-4

10. FLOOR AT BASE OF ALL EXPOSED COLUMNS IS FINISHED WITH CONC-1A

11. STAIR 'F' RISERS AND TREADS ARE CONC-2 UNLESS OTHERWISE NOTED

12. BACK OF HOUSE CASEWORK TO BE PL-1 COUNTERTOPS WITH PL-2 EDGE TRIM.

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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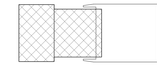

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DRAWN BY MM
CHECKED BY JD

PROJECT NUMBER
11017

TITLE
INTERIOR FINISH FLOOR PLAN
FIXED BUILDING 02 LEVEL

SCALE: As indicated

0 8 16 24

DRAWING NO.
A-142.01

B-SCAN NO.
A-142.01

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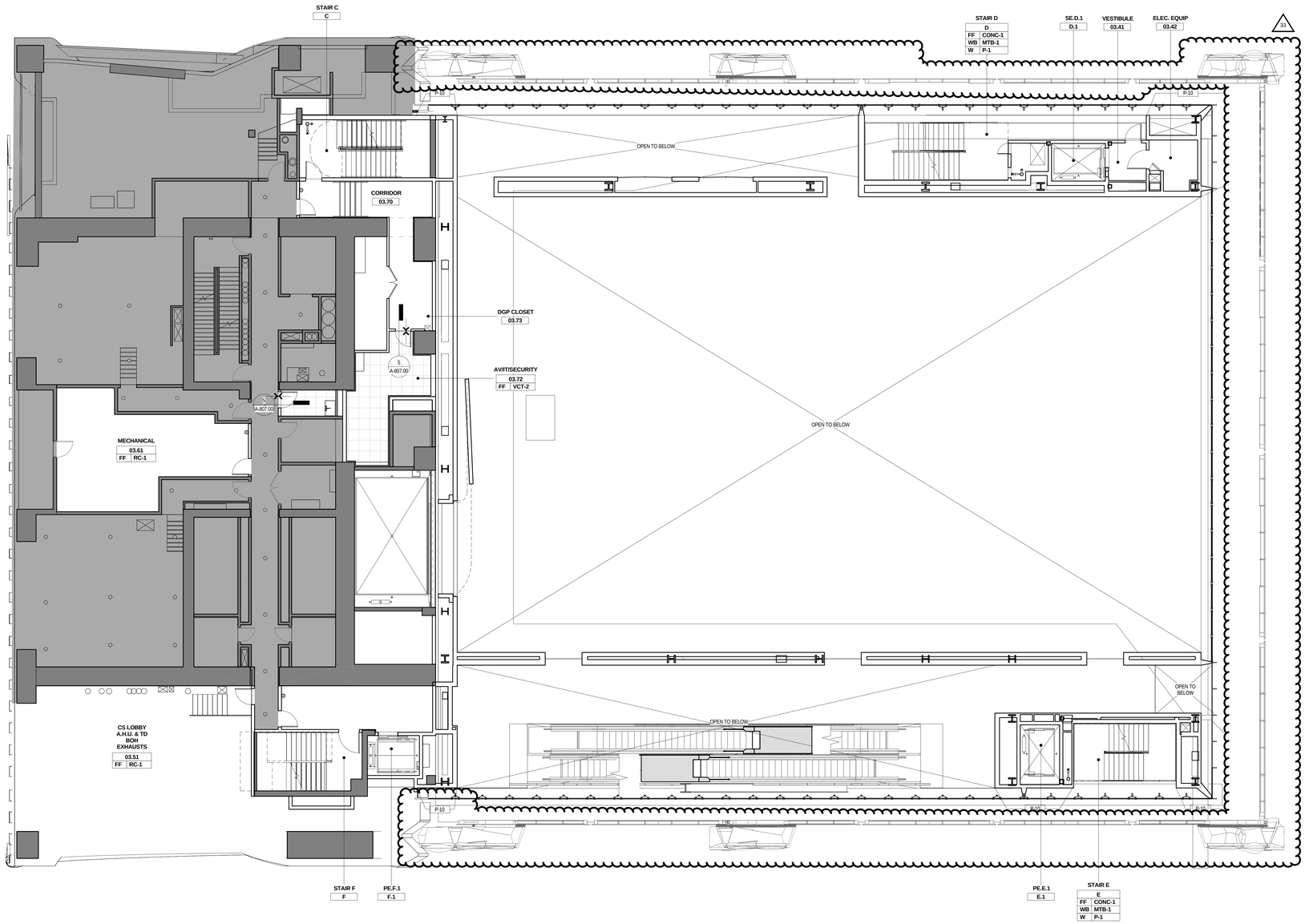

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Buildings
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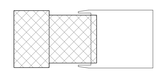

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STATE OF NEW YORK

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TITLE
INTERIOR FINISH FLOOR PLAN
FIXED BUILDING 03 LEVEL

SCALE: As indicated

0 8 16 24

DRAWING NO.
A-143.01

B-SCAN NO.
A-143.01

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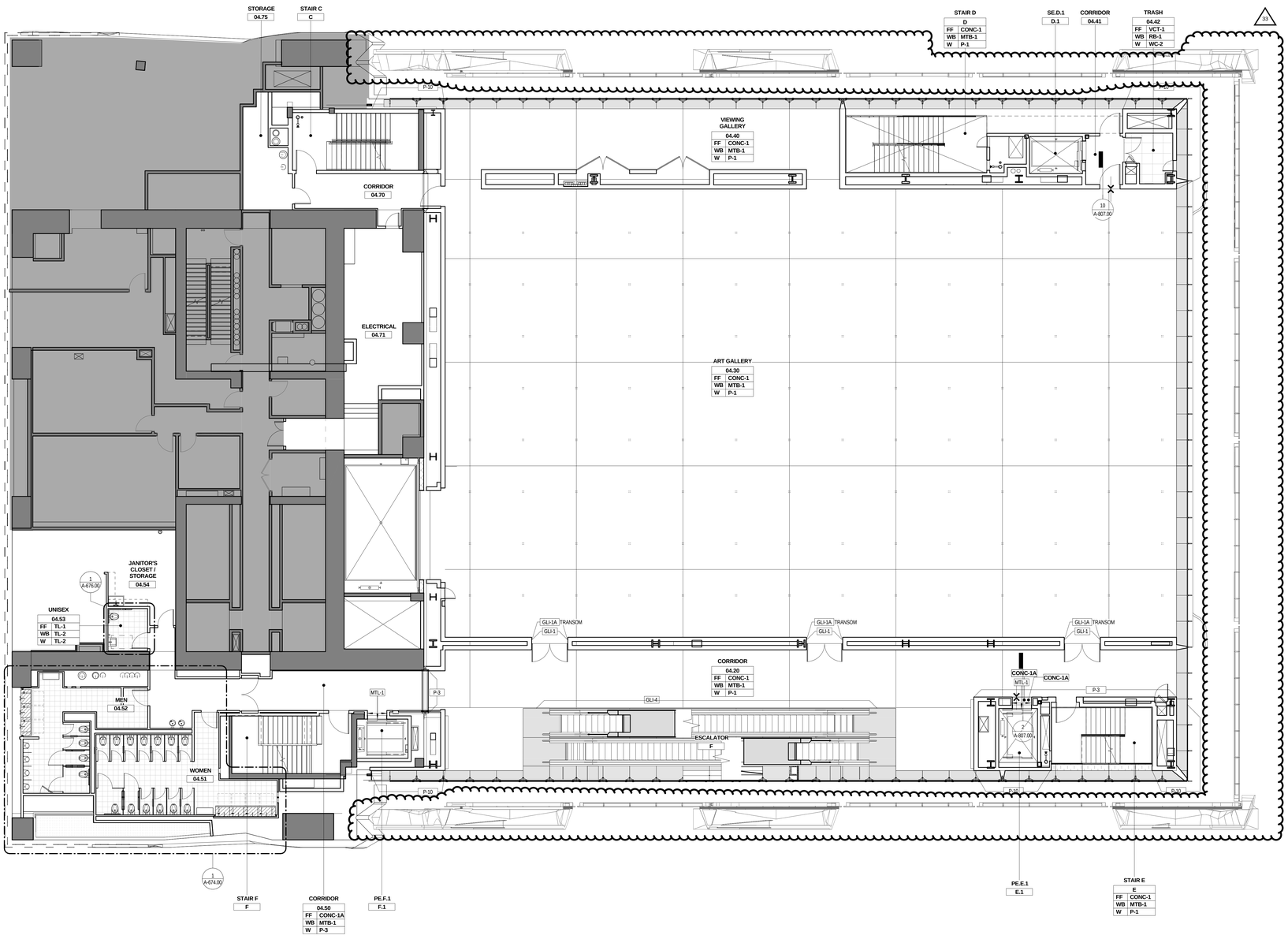

LEGEND

FLOOR MATERIAL TRANSITION

GENERAL NOTES

1. ALL FLOORS AT THIS LEVEL TO BE FINISHED WITH CONC-2, UNLESS OTHERWISE NOTED

2. ALL WALLS TO BE FINISHED WITH P-2, UNLESS OTHERWISE NOTED

4. ALL WALLS WITH P-1 & P-3TO BE APPLIED TO A LEVEL 5 GYPSUM BOARD FINISH, UNLESS OTHERWISE NOTED. ALL OTHER GYPSUM BOARD WALLS TO RECEIVE LEVEL 4 FINISH.

5. ALL WALL BASES TO BE RB-1, UNLESS OTHERWISE NOTED

6. ALL STAIR TREADS, RISERS AND LANDINGS ON THIS LEVEL IN STAIR 'C' & 'F' ARE CONC-2, UNLESS OTHERWISE NOTED

7. ALL STAIR TREADS AND LANDINGS ON THIS LEVEL IN STAIR 'D' & 'E' ARE CONC-1

8. ALL METAL STAIR STRINGERS AND RISERS IN STAIR 'D' & 'E' TO BE P-3

9. ALL HANDRAILS TO BE P-4

10. FLOOR AT BASE OF ALL EXPOSED COLUMNS IS FINISHED WITH CONC-1A

11. STAIR 'F' RISERS AND TREADS ARE CONC-2 UNLESS OTHERWISE NOTED

12. BACK OF HOUSE CASEWORK TO BE PL-1 COUNTERTOPS WITH PL-2 EDGE TRIM.

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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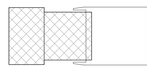
KEY PLAN



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44	33	DOB AMENDMENT 5	04.08.2016
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9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

STAMP

REGISTERED ARCHITECT RICHARD SCOFIDIO 008806 STATE OF NEW YORK

DRAWN BY MM
CHECKED BY JD

PROJECT NUMBER
11017

TITLE

INTERIOR FINISH FLOOR PLAN
FIXED BUILDING 04 LEVEL

SCALE: As indicated

0 8 16 24

DRAWING NO.
A-144.01

B-SCAN NO.
A-144.01

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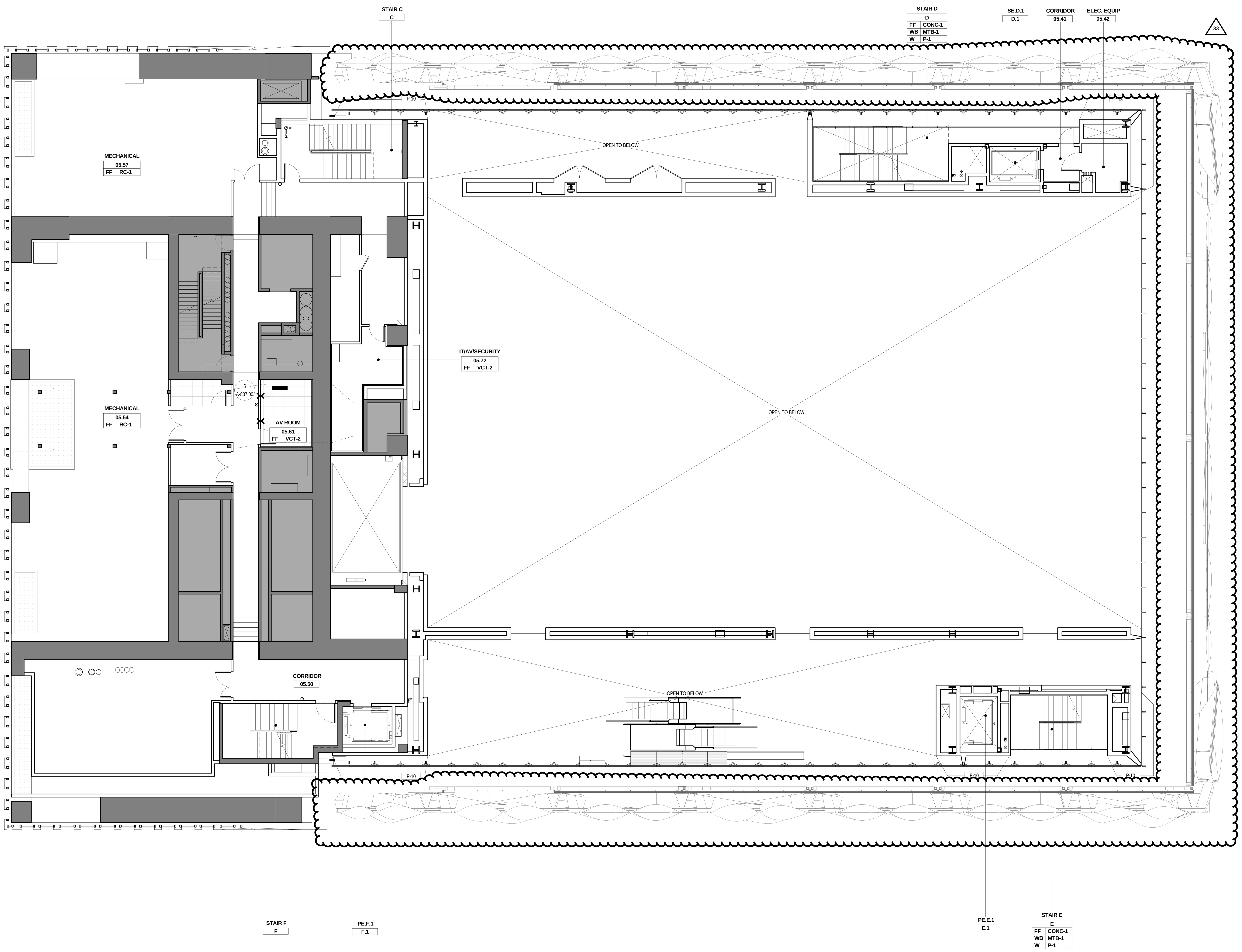

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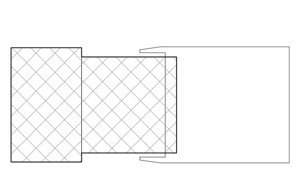

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REGISTERED ARCHITECT
RICARDO SCOFIDIO
008800
STATE OF NEW YORK

DRAWN BY MM
CHECKED BY JD

PROJECT NUMBER
11017

TITLE
INTERIOR FINISH FLOOR PLAN
FIXED BUILDING 05 LEVEL

SCALE: As indicated

0 8 16 24

DRAWING NO.
A-145.01

B-SCAN NO.
A-145.01

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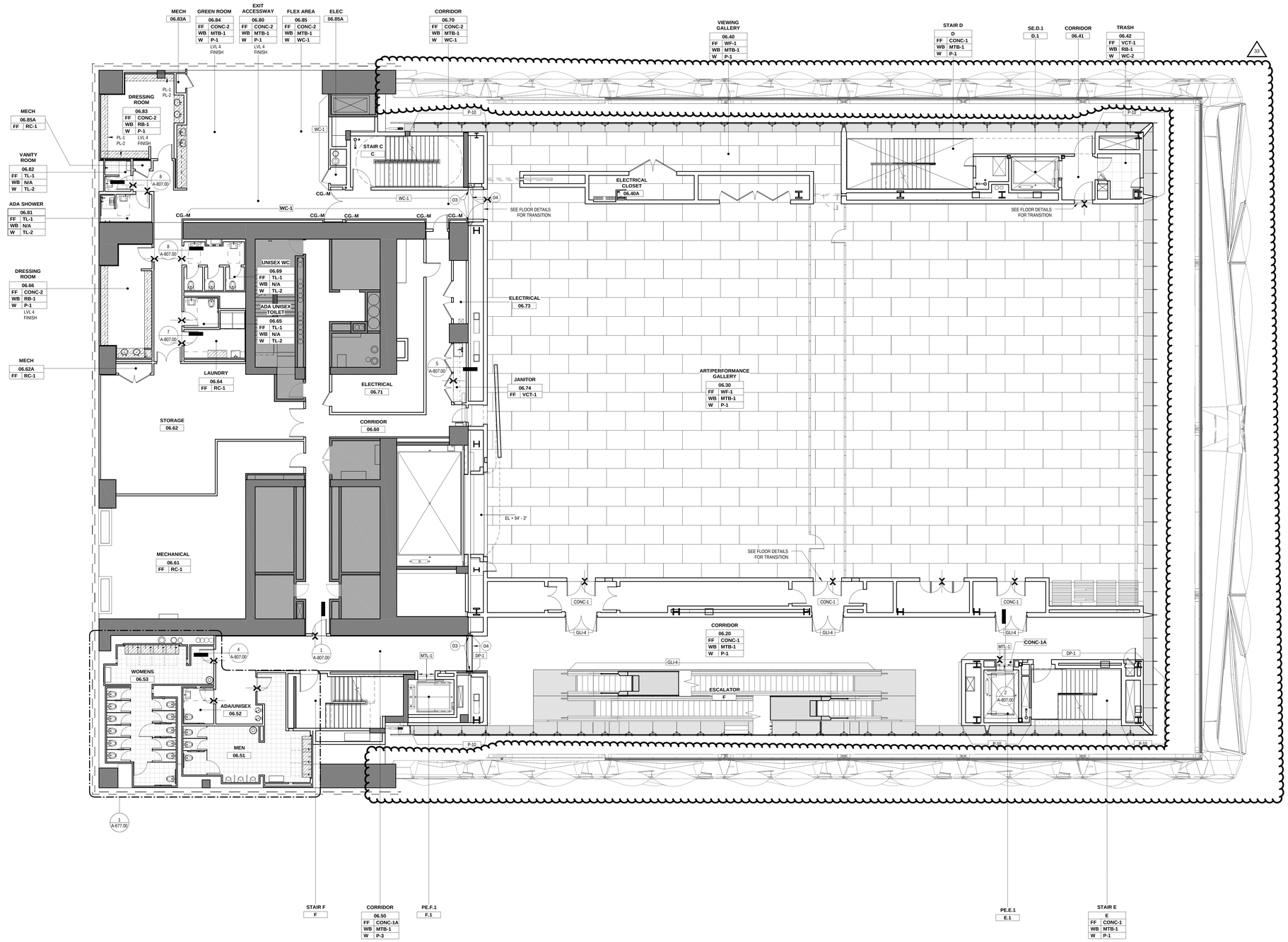

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Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
ARTICULATED ELEVATION
Date: 07/15/2016
NYC Development Hub

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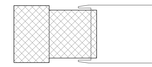

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REGISTERED ARCHITECT RICARDO SCOFIDIO 026850 STATE OF NEW YORK

DRAWN BY MM
CHECKED BY JD

PROJECT NUMBER
11017

TITLE

INTERIOR FINISH FLOOR PLAN
FIXED BUILDING 06 LEVEL

DRAWING NO.

A-146.01

B-SCAN NO.

A-146.01

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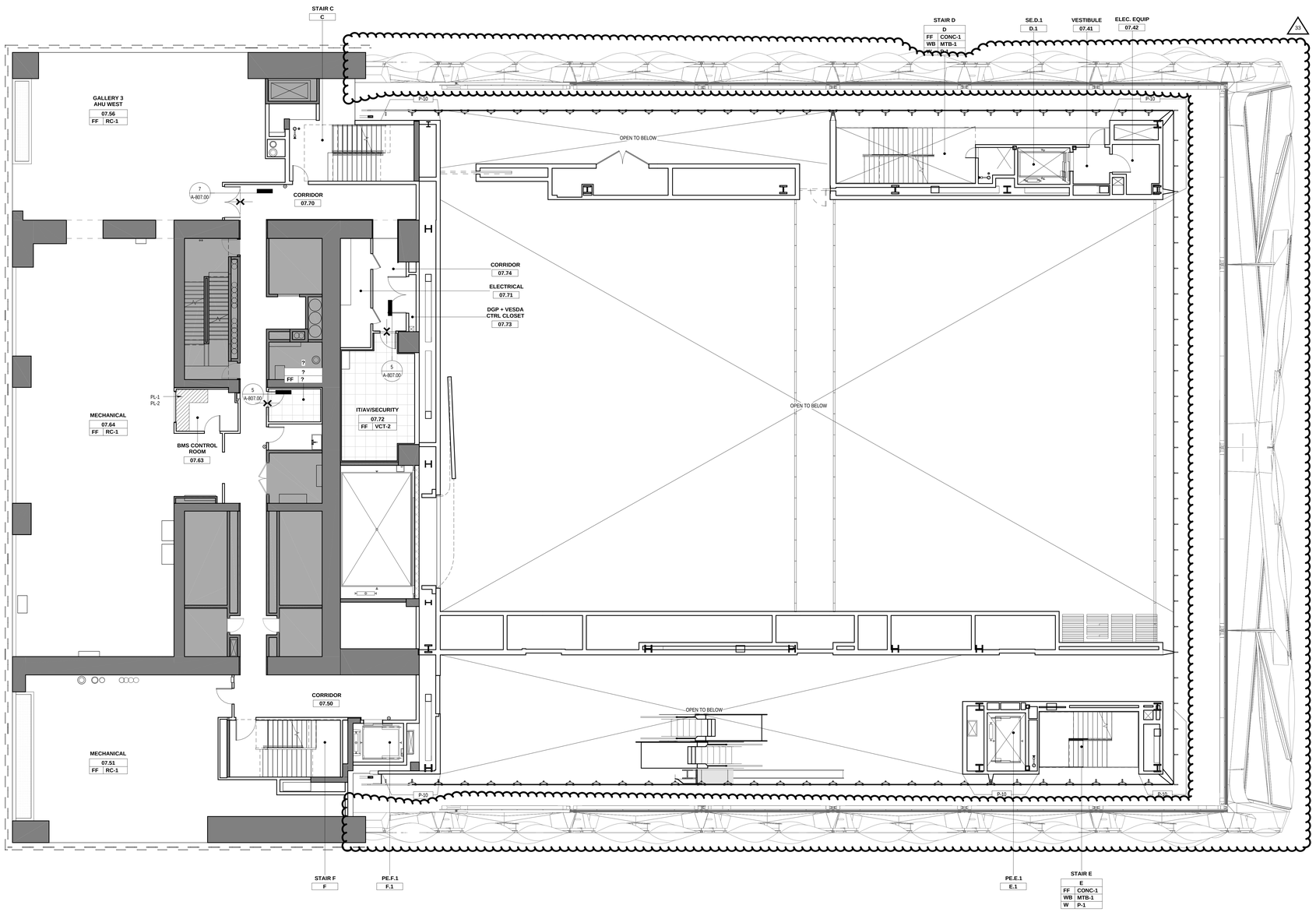

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MEANS OF APPLICATION
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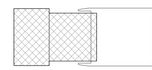

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RICARDO SCOFIDIO
029420
STATE OF NEW YORK

DRAWN BY MM
CHECKED BY JD

PROJECT NUMBER
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TITLE

INTERIOR FINISH FLOOR PLAN
FIXED BUILDING 07 LEVEL

DRAWING NO.
A-147.01

B-SCAN NO.
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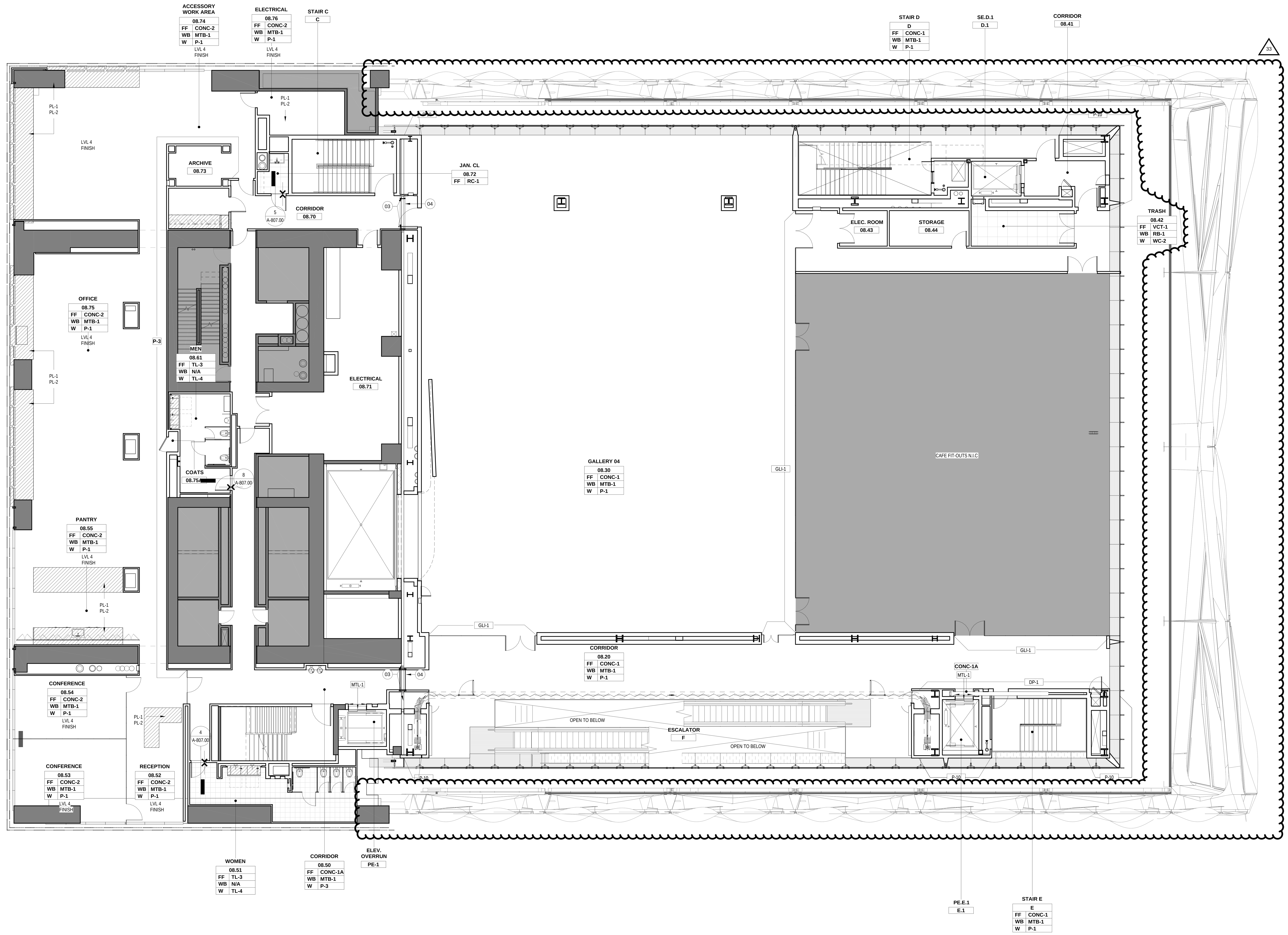
LEGEND

FLOOR MATERIAL TRANSITION



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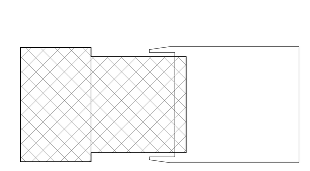
KEY PLAN



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9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

STAMP

REGISTERED ARCHITECT RICARDO SCOFIDIO 008800 STATE OF NEW YORK

DRAWN BY MM
CHECKED BY JD

PROJECT NUMBER
11017

TITLE
INTERIOR FINISH FLOOR PLAN
FIXED BUILDING 08 LEVEL

DRAWING NO.
A-148.01

B-SCAN NO.
A-148.01

291

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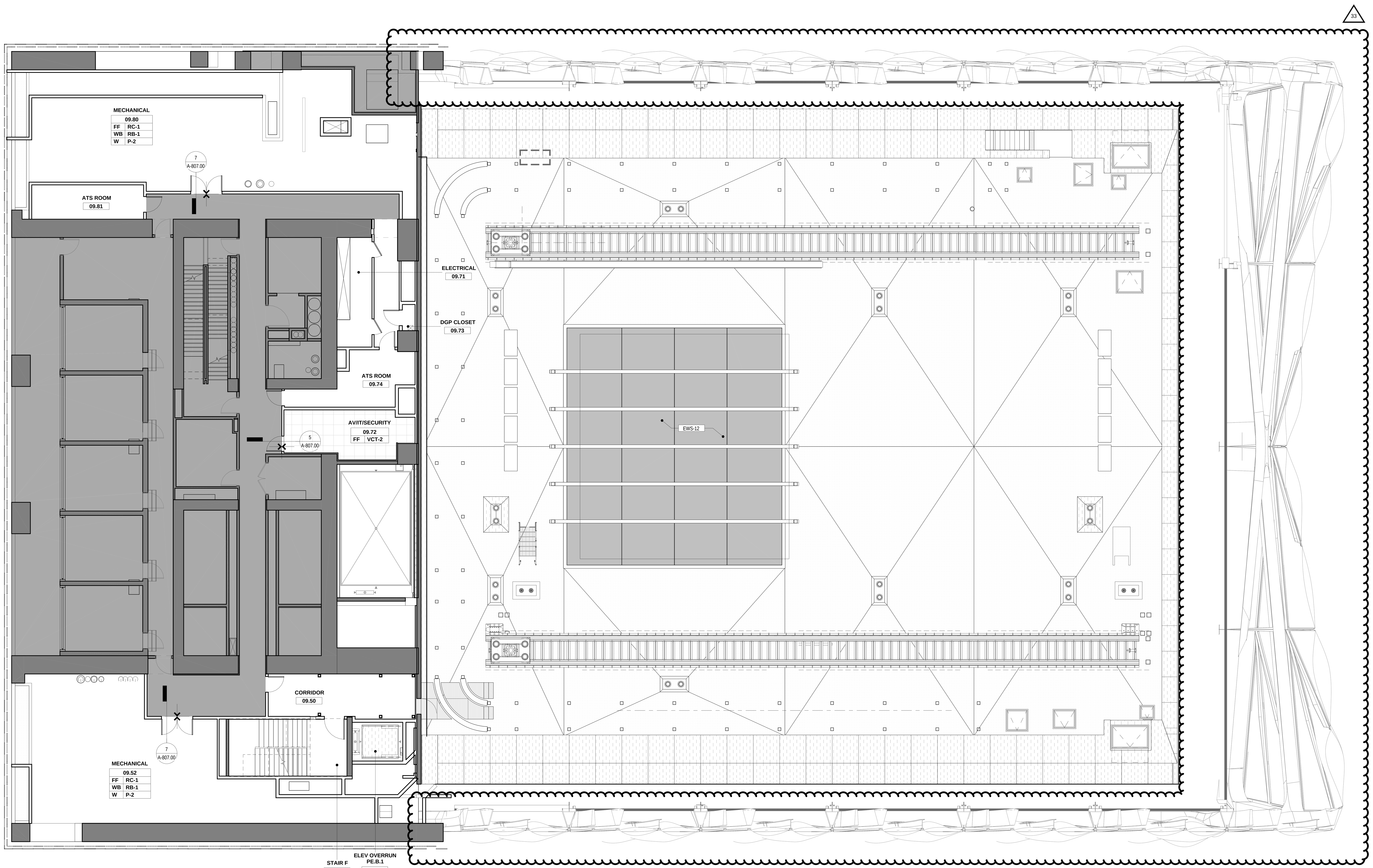

LEGEND

FLOOR MATERIAL TRANSITION

GENERAL NOTES

1. ALL FLOORS AT THIS LEVEL TO BE FINISHED WITH CONC-2, UNLESS OTHERWISE NOTED
2. ALL WALLS TO BE FINISHED WITH P-2, UNLESS OTHERWISE NOTED
3. ALL WALL BASES TO BE RB-1, UNLESS OTHERWISE NOTED
4. ALL STAIR TREADS, RISERS AND LANDINGS ON THIS LEVEL IN STAIR 'F' ARE CONC-2, UNLESS OTHERWISE NOTED
5. ALL HANDRAILS TO BE P-4
6. FLOOR AT BASE OF ALL EXPOSED COLUMNS IS FINISHED WITH CONC-1A
7. STAIR 'F' RISERS AND TREADS ARE CONC-2 UNLESS OTHERWISE NOTED
8. BACK OF HOUSE CASEWORK TO BE PL-1 COUNTERTOPS WITH PL-2 EDGE TRIM.

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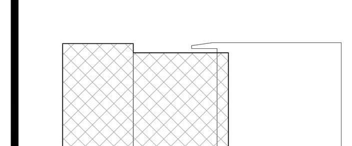

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5		50% CD CS IN TOWER D FIT-OUT	11.26.2014
2		50% CONSTRUCTION DOCUMENTS	08.15.2014

STAMP

REGISTERED ARCHITECT
RICARDO SCOFIDIO
008800
STATE OF NEW YORK

Damian Titus
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWN BY MM
CHECKED BY JD

PROJECT NUMBER
11017

TITLE
INTERIOR FINISH PLAN FIXED
BUILDING 09 LEVEL

DRAWING NO.
A-149.01

B-SCAN NO.
A-149.01

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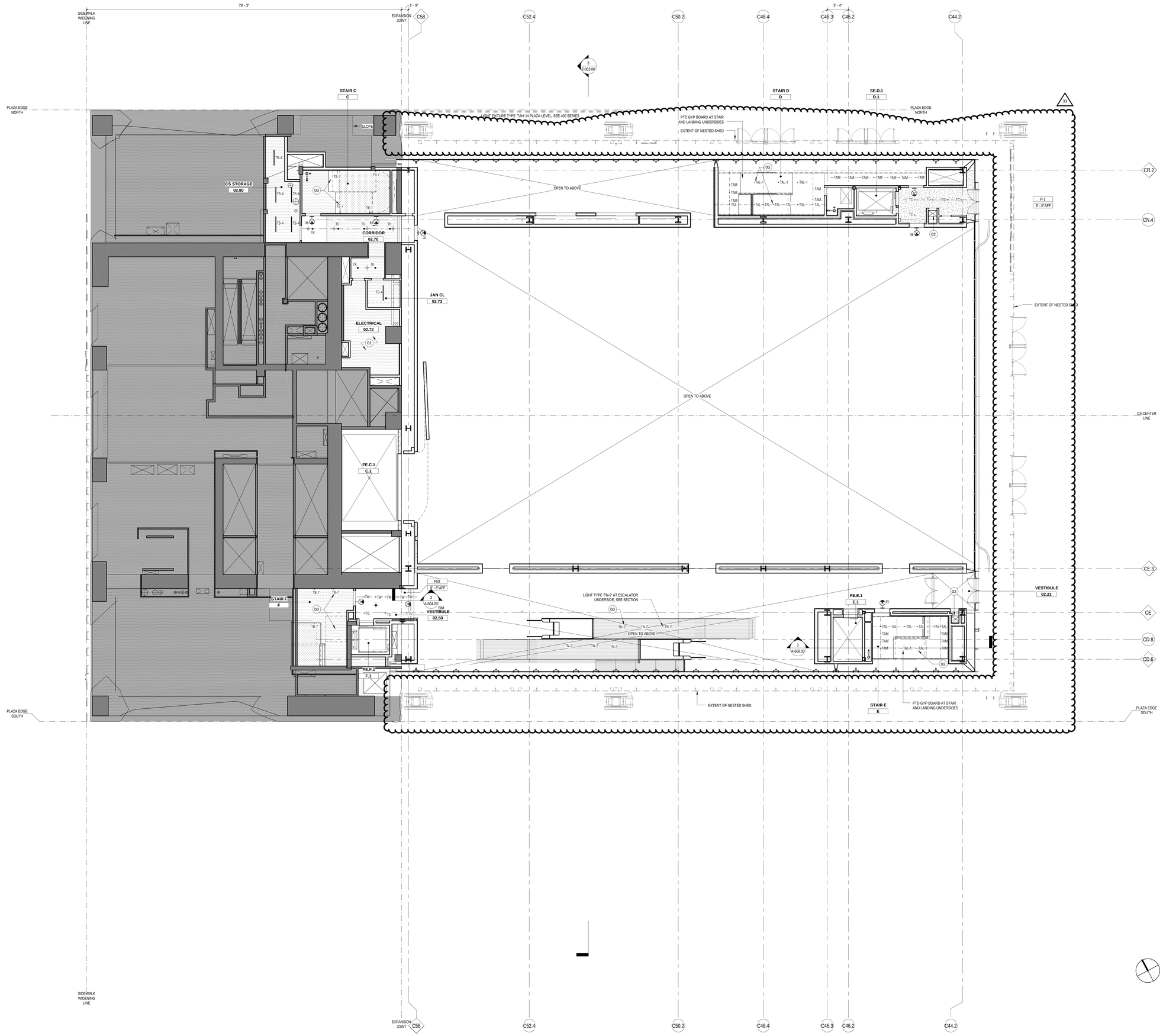

LEGEND

XX

01 SEE ELEC DWGS FOR LIGHTING IN THIS RM
02 CABLE PASS SYSTEM
03 SEE ELEVATIONS FOR LIGHTING AND MOUNTING INFO

GENERAL NOTES

1. ALL GYPSUM BOARD AND PERFORATED GYPSUM BOARD TO BE PAINTED P-1, UON.

2. ALL EXPOSED STRUCTURE, METAL DECK, SLABS, FIREPROOFING, MEP/FP SYSTEMS, AND MISCELLANEOUS OTHER TO BE PAINTED P-1, UON. PROVIDE PAINT COMPATIBLE WITH ALL SURFACES.

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4. PROVIDE BLACK K-13 SPRAY-ON INSULATION ON ALL DECK OR SLAB ABOVE ALL APC-2 CEILINGS, UON. CONFIRM PAINT COMPATIBILITY WITH K-13 PRIOR TO APPLICATION.

5. ALL CONCEALED LOCATIONS (FOR EXAMPLE, ABOVE SUSPENDED CEILINGS AND BETWEEN WALLS) TO BE PAINTED P-5, UON.

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11. ALL WALL MOUNTED EXIT SIGNS TO BE RECESSED IN WALL W/ FACE OF SIGN FLUSH TO FACE OF WALL.

12. SEE SHEET A-002 FOR REFLECTED CEILING PLAN LEGEND.

13. AS NEEDED PROVIDE PTD PLYWOOD SHELF WITH MTL FRAMING FOR REMOTE DRIVER FOR LED LIGHT TYPE, HIDDEN FROM VIEW. DO NOT REST ON BAFFLE CEILING.

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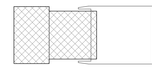

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6		PRELIMINARY DOB SUBMISSION	12.10.2014

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REGISTERED ARCHITECT RICARDO SCOFIDIO 026800 STATE OF NEW YORK

DRAWN BY RS
CHECKED BY JD

PROJECT NUMBER
11017

TITLE
RCP FIXED BUILDING 02 LEVEL

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
A-202.01

B-SCAN NO.
A-202.01
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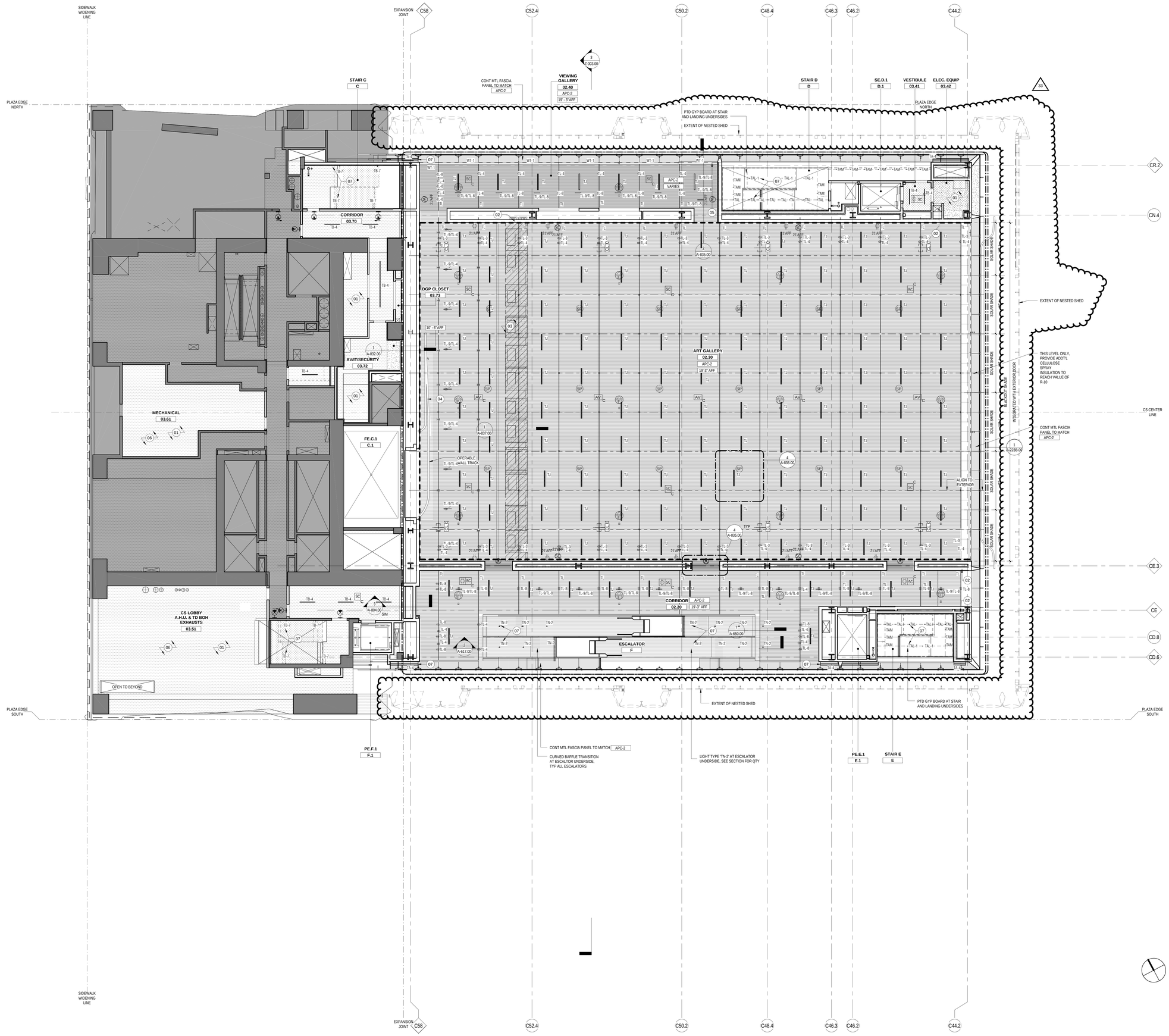

LEGEND

01	SEE ELEC DWGS FOR LIGHTING IN THIS RM
02	CABLE PASS SYSTEM
03	HATCHED AREA - EXTENT OF PTD GYP ENCLOSURES AROUND FAN POWERED BOXES WITH ACCESS PANELS ABOVE FINISH CLNG, SEE ENLARGED PLAN.
04	MOVABLE WALL
05	BAFFLE CEILING/SLOPED UP TO MTL FASCIA. SEE 400 SERIES.
06	INSTALL DUCT LINER ON 75% OF CEILING SURFACE. FINAL LOCATION TO BE FIELD COORDINATED WITH UTILITY LAYOUT.
07	SEE ELEVATIONS FOR LIGHTING AND MOUNTING INFO

GENERAL NOTES

1. ALL GYPSUM BOARD AND PERFORATED GYPSUM BOARD TO BE PAINTED P-1, UON.

2. ALL EXPOSED STRUCTURE, METAL DECK, SLABS, FIREPROOFING, MEP/FP SYSTEMS, AND MISCELLANEOUS OTHER TO BE PAINTED P-1, UON. PROVIDE PAINT COMPATIBLE WITH ALL SURFACES.

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12. SEE SHEET A-002 FOR REFLECTED CEILING PLAN LEGEND.

13. AS NEEDED PROVIDE PTD PLYWOOD SHELF WITH MTL FRAMING FOR REMOTE DRIVER FOR LED LIGHT TYPE, HIDDEN FROM VIEW. DO NOT REST ON BAFFLE CEILING.

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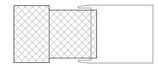

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REGISTERED ARCHITECT RICARDO SCOFIDIO STATE OF NEW YORK 029409

DRAWN BY RS
CHECKED BY JD

PROJECT NUMBER 11017

TITLE
RCP FIXED BUILDING 03 LEVEL

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
ATTENDED LOCATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
A-203.01

B-SCAN NO.
A-203.01
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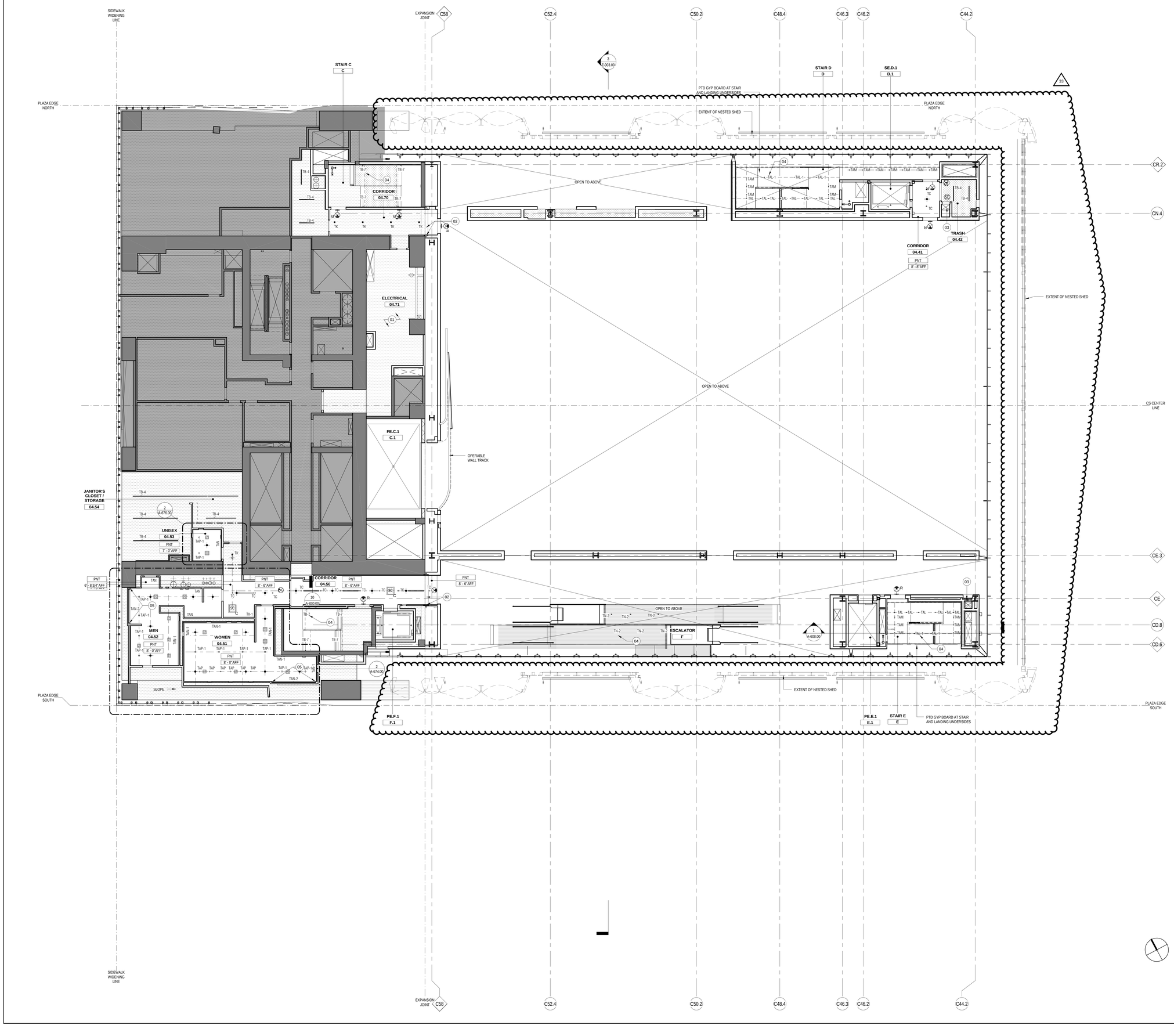

LEGEND

01	SEE ELEC DWGS FOR LIGHTING IN THIS RM
02	EXPANSION JOINT COVER AT WALL AND FLOOR.
03	CABLE PASS SYSTEM
04	SEE ELEVATIONS FOR LIGHTING AND MOUNTING INFO
05	VERTICAL LIGHT FIXTURE TAN-2 AT MIRROR PERIMETER

GENERAL NOTES

1. ALL GYPSUM BOARD AND PERFORATED GYPSUM BOARD TO BE PAINTED P-1, UON.

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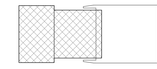

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6		PRELIMINARY DOB SUBMISSION	12.10.2014

STAMP

DRAWN BY RS
CHECKED BY JD

PROJECT NUMBER
11017

TITLE
RCP FIXED BUILDING 04 LEVEL

DRAWING NO.
A-204.01

B-SCAN NO.
A-204.01

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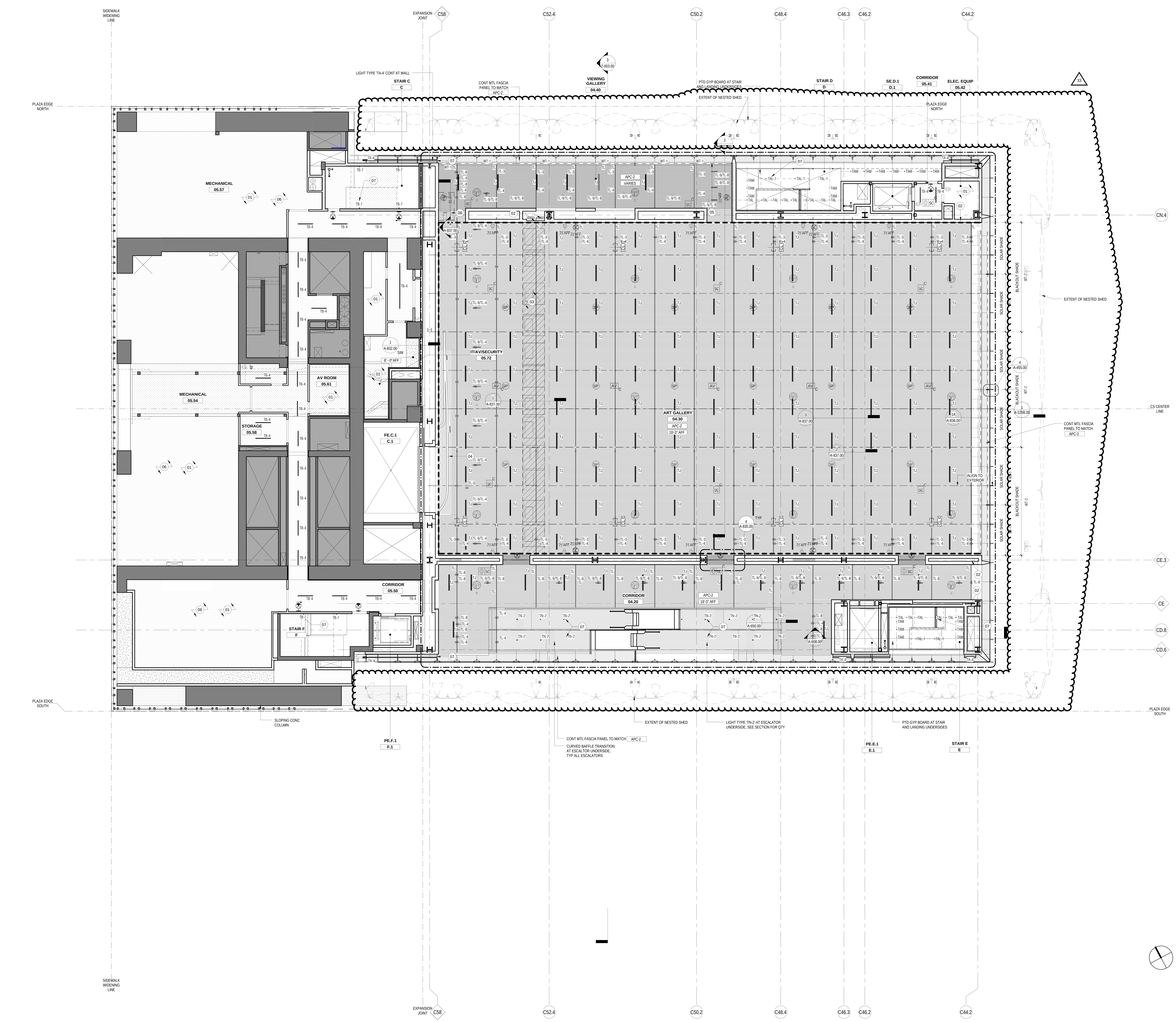

LEGEND

01 SEE ELEC DWGS FOR LIGHTING IN THIS RM
02 CABLE PASS SYSTEM
03 HATCHED AREA - EXTENT OF PTD GYP ENCLOSURES AROUND FAN POWERED BOXES WITH ACCESS PANELS, SEE ENLARGED PLAN.
04 OPERABLE WALL TRACK
05 BAFFLE CEILING SLOPED UP TO MTL FASCIA. SEE 400 SERIES DWGS.
06 INSTALL DUCT LINER ON 75% OF CEILING SURFACE. FINAL LOCATION TO BE FEILD COORDINATED WITH UTILITY LAYOUT.
07 SEE ELEVATION FOR LIGHTING AND MOUNTING INFO
08 CAR-MON SERIES STORAGE REELMOUNTED TO SLAB ABOVE WITH BOOSTER FAN, SEE DETAILS

GENERAL NOTES

1. ALL GYPSUM BOARD AND PERFORATED GYPSUM BOARD TO BE PAINTED P-1, UON.

2. ALL EXPOSED STRUCTURE, METAL DECK, SLABS, FIREPROOFING, MEP/FP SYSTEMS, AND MISCELLANEOUS OTHER TO BE PAINTED P-1, UON. PROVIDE PAINT COMPATIBLE WITH ALL SURFACES.

3. ALL EXPOSED STRUCTURE, METAL DECK, SLABS, FIREPROOFING, MEP/FP SYSTEMS, AND MISCELLANEOUS OTHER BEYOND APC-2 CEILINGS AND PERFORATED GYPSUM BOARD CEILINGS TO BE PAINTED P-5, UON. PROVIDE PAINT COMPATIBLE WITH ALL SURFACES.

4. PROVIDE BLACK K-13 SPRAY-ON INSULATION ON ALL DECK OR SLAB ABOVE ALL APC-2 CEILINGS, UON. CONFIRM PAINT COMPATIBILITY WITH K-13 PRIOR TO APPLICATION.

5. ALL CONCEALED LOCATIONS (FOR EXAMPLE, ABOVE SUSPENDED CEILINGS AND BETWEEN WALLS) TO BE PAINTED P-5, UON.

6. ALL EQUIPMENT AND DEVICES WITH ASSOCIATED SUB-CONSULTANT DRAWINGS OR SPECS ARE FOR REFERENCE ONLY. DRAWINGS DO NOT REFLECT ADDENDA OR ALL DEVICES IN PROJECT. REFER TO CORRESPONDING SUB-CONSULTANT DRAWINGS, SPECS, AND ADDENDA FOR COMPLETE SCOPE AND REQUIREMENTS IN ALL SPACES.

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8. PROVIDE SHOP DRAWINGS SHOWING ROUTING FOR ALL CONDUIT IN ALL EXPOSED OR CONCEALED LOCATIONS.

9. EXTENTS OF APC-2 SHOWN FOR REFERENCE. SEE DETAILS FOR ALL INTENDED ALIGNMENTS AND EDGE DIMENSION CONSTRAINTS.

10. ALL LIGHTING TO BE CENTERED IN HALLWAYS AND IN CEILING PANELS UNLESS OTHERWISE INDICATED - CONFIRM AS REQ'D W/ ARCHITECT.

11. ALL WALL MOUNTED EXIT SIGNS TO BE RECESSED IN WALL W/ FACE OF SIGN FLUSH TO FACE OF WALL.

12. SEE SHEET A-002 FOR REFLECTED CEILING PLAN LEGEND.

13. AS NEEDED PROVIDE PTD PLYWOOD SHELF WITH MTL FRAMING FOR REMOTE DRIVER FOR LED LIGHT TYPE, HIDDEN FROM VIEW. DO NOT REST ON BAFFLE CEILING.

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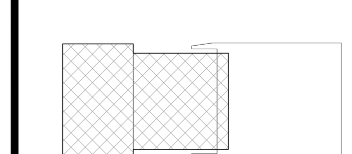

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REGISTERED ARCHITECT RICARDO SCOFIDIO 008800 STATE OF NEW YORK

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWN BY RS
CHECKED BY JD

PROJECT NUMBER
11017

TITLE
RCP FIXED BUILDING 05 LEVEL

DRAWING NO.
A-205.01

B-SCAN NO.
A-205.01

291

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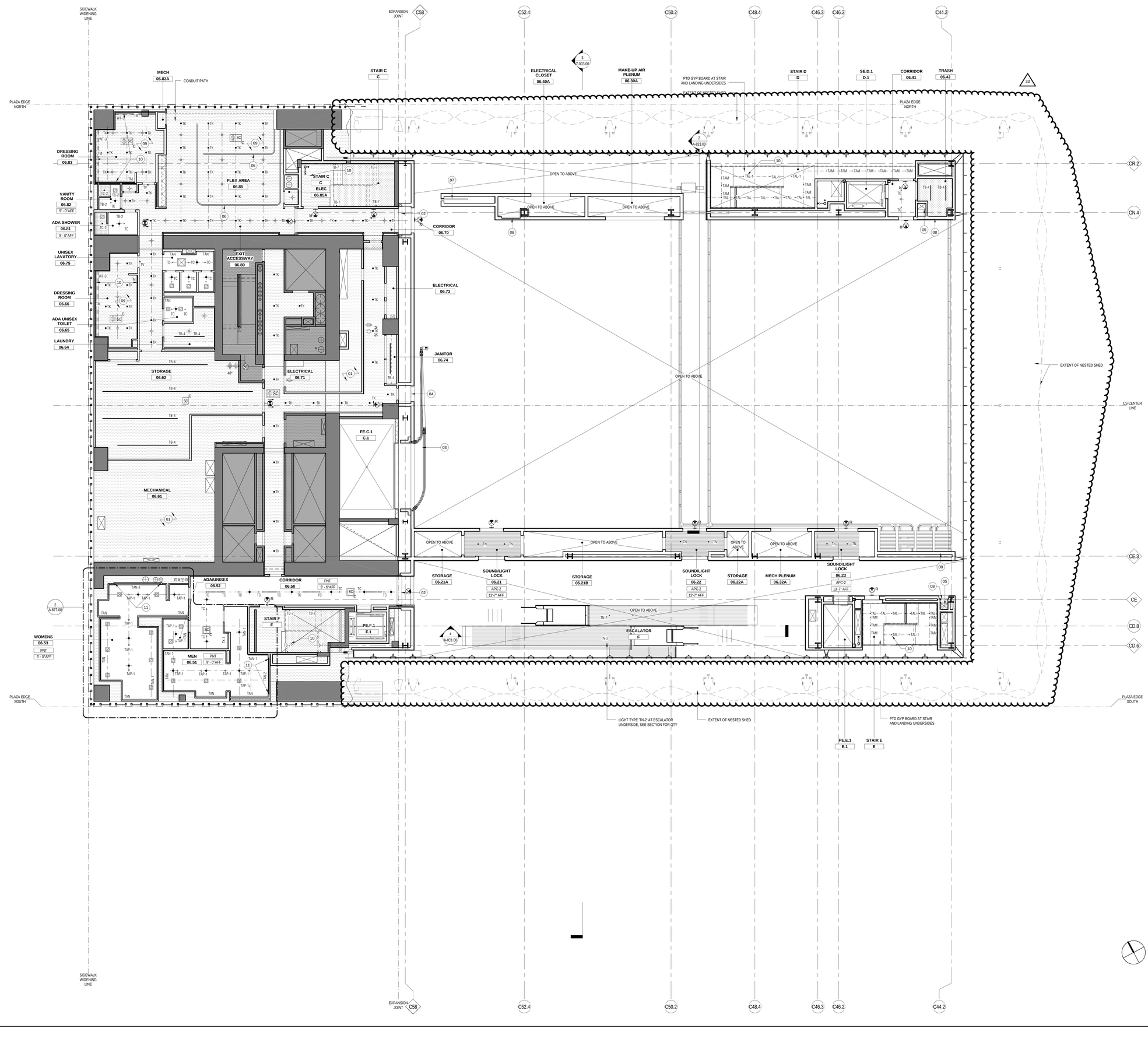

LEGEND

XX

01 SEE ELEC DWGS FOR LIGHTING IN THIS RM
02 EXPANSION JOINT COVER AT WALL AND FLOOR
03 OPERABLE WALL TRACK ABOVE
04 WALL OPENING, SEE ELEVATIONS.
05 CABLE PASS SHAFT TO ROOF ABOVE.
06 MANUAL CURTAIN TRACK SURFACE MOUNTED TO EXPOSED CONCRETE
07 SIDE ACTING SMOKE DOOR WITH EGRESS DOOR
08 CABLE PASS SYSTEM
09 PROVIDE SPRAY INSULATION AT CEILING SURFACE 2" THICK. PROVIDE BLOCKING AT LIGHT FIXTURES. DEVICES TO COORDINATE WITH INSULATION.
10 SEE ELEVATIONS FOR LIGHTING AND MOUNTING INFO
11 VERTICAL LIGHT FIXTURE TN-2 AT MIRROR PERIMETER

GENERAL NOTES

1. ALL GYPSUM BOARD AND PERFORATED GYPSUM BOARD TO BE PAINTED P-1, UON.

2. ALL EXPOSED STRUCTURE, METAL DECK, SLABS, FIREPROOFING, MEP/FP SYSTEMS, AND MISCELLANEOUS OTHER TO BE PAINTED P-1, UON. PROVIDE PAINT COMPATIBLE WITH ALL SURFACES.

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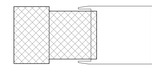

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CHECKED BY JD

PROJECT NUMBER
11017

TITLE

RCP FIXED BUILDING 06 LEVEL

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
A-206.01

B-SCAN NO.

A-206.01

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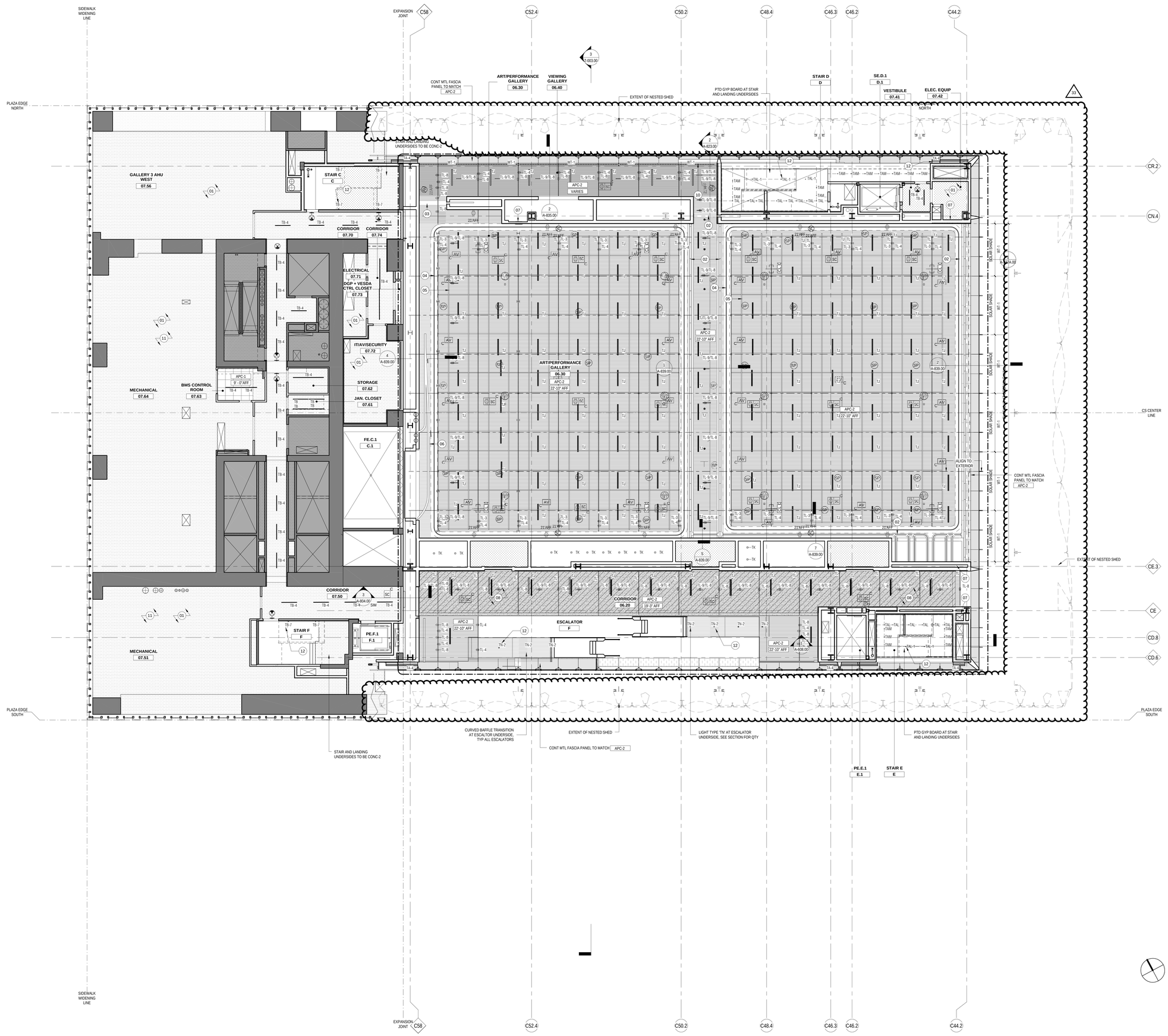

LEGEND

01	SEE ELEC DWGS FOR LIGHTING IN THIS RM
02	HORIZONTAL SLIDING OPERABLE PARTITIONS, MANUAL OPERATED.
03	SIDE ACTING SMOKE DOOR WITH EGRESS DOOR
04	THEATRICAL CURTAIN TRACK.
05	THEATRICAL PIPE GRID
06	MOVABLE WALL TRACK ABOVE
07	CABLE PASS SYSTEM
08	HACHED AREA - EXTENT OF 2HR RATED PTD GYP BD SOFFIT ABOVE FINISH CEILING
10	BAFFLE CEILING SLOPED UP TO MTL FASCIA
11	INSTALL DUCT LINER ON 75% OF CEILING SURFACE. fINAL LOCATION TO BE FIELD COORDINATED WITH UTILITY LAYOUT.
12	SEE ELEVATIONS FOR LIGHTING AND MOUNTING INFO

GENERAL NOTES

1. ALL GYPSUM BOARD AND PERFORATED GYPSUM BOARD TO BE PAINTED P-1, UON.

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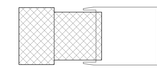

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REGISTERED ARCHITECT RICARDO SCOFIDIO 008600 STATE OF NEW YORK

DRAWN BY RS
CHECKED BY JD

PROJECT NUMBER
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TITLE

RCP FIXED BUILDING 07 LEVEL

Damian Titus
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APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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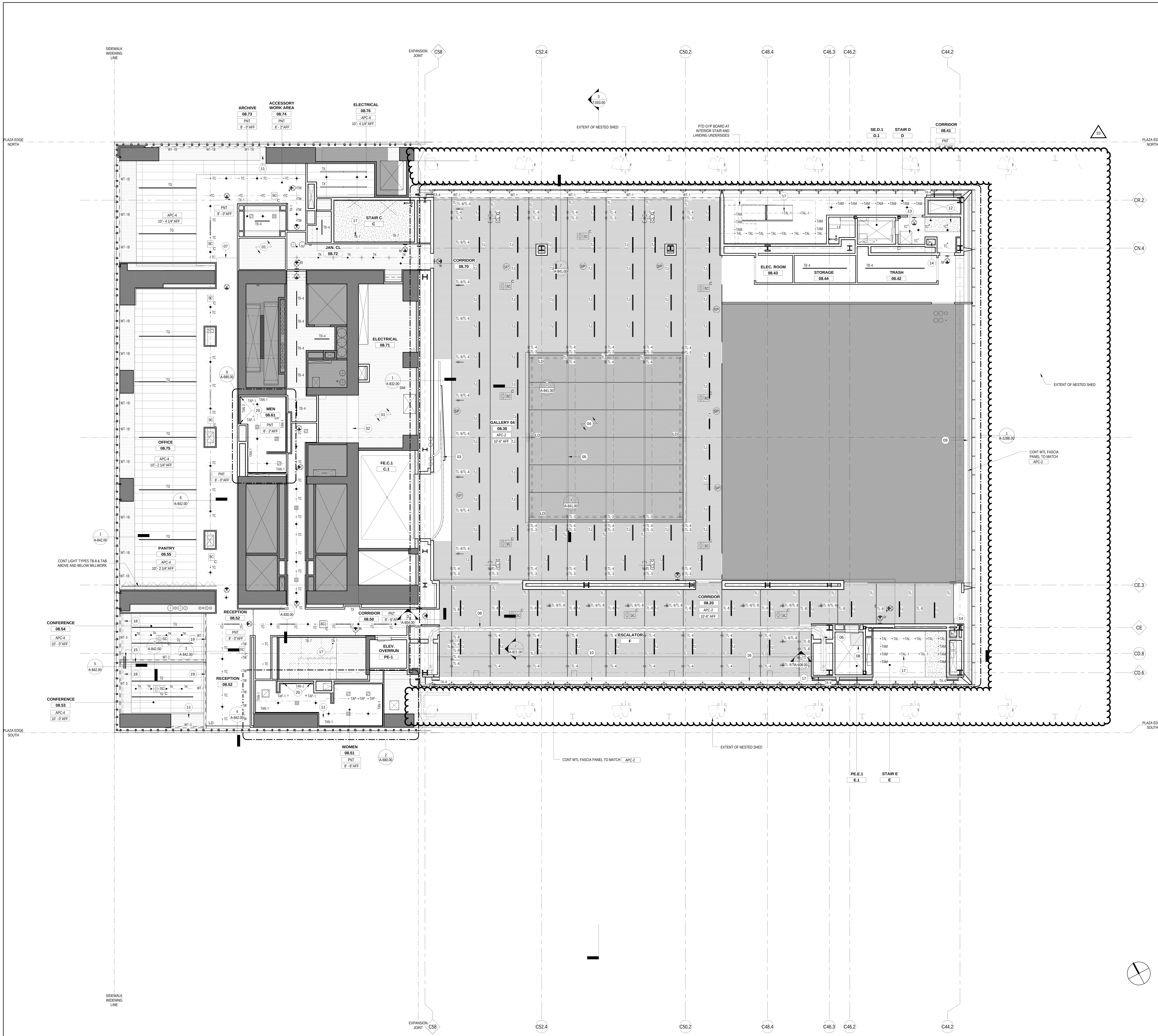

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01 SEE ELEC DWGS FOR LIGHTING IN THIS RM
02 SHEAR WALL OPENING BEYOND
03 OPERABLE WALL TRACK ABOVE
04 SKYLIGHT BEYOND. SEE 400 SERIES DWGS.
05 LIGHT TRACK BUSRUN ATTACHED TO GLAZING SYSTEM. SEE 400 SERIES DWGS.
06 ACCORDION FIRE SHUTTER DOOR
07 LINK BEAM WITH APC-4 CLADDING
08 METAL GRATE PLATFORM FOR GOVERNER PANEL ACCESS.
09 SEE 400 SERIES DWGS FOR EAST WALL PERIMETER CONDITION.
10 BAFFLE CEILING SLOPE UP TO MTL FASDCIA. SEE 400 SERIES DWGS.
11 SLOPED CONCRETE STRUCTURE
12 2-HOUR FIRE RATED CEILING TO SHAFT FOR DUCTWORK TO ROOF ABOVE.
13 CEILING OPEN TO ROOF HATCH ABOVE. PROVIDE WALL PROTECTION ON FASCIAS FROM CEILING UP TO ROOF HATCH ABOVE..
14 CABLE PASS SHAFT TO ROOF ABOVE
15 OPERABLE FRAMELESS GLASS WALL, INDIVIDUAL PANELS, OMNI-DIRECTIONAL, SINGLE GLAZED, TOP SUPPORTED, FLOORBOLTS.
16 BAFFLE CEILING SLOPED UP TO MTL FASCIA. SEE 400 SERIES DWGS.
17 SEE ELEVATIONS FOR LIGHTING AND MOUNTING INFO
18 PROJECTION SCREEN, SEE DEVICE PLANS
19 PROJECTOR ABOVE CEILING EDGE, SEE DEVICE PLANS
20 VERTICAL FIXTURE TAN-2 AT MIRROR PERIMETER

GENERAL NOTES

1. ALL GYPSUM BOARD AND PERFORATED GYPSUM BOARD TO BE PAINTED P-1, UON.

2. ALL EXPOSED STRUCTURE, METAL DECK, SLABS, FIREPROOFING, MEP/FP SYSTEMS, AND MISCELLANEOUS OTHER TO BE PAINTED P-1, UON. PROVIDE PAINT COMPATIBLE WITH ALL SURFACES.

3. ALL EXPOSED STRUCTURE, METAL DECK, SLABS, FIREPROOFING, MEP/FP SYSTEMS, AND MISCELLANEOUS OTHER BEYOND APC-2 CEILINGS AND PERFORATED GYPSUM BOARD CEILINGS TO BE PAINTED P-5, UON. PROVIDE PAINT COMPATIBLE WITH ALL SURFACES.

4. PROVIDE BLACK K-13 SPRAY-ON INSULATION ON ALL DECK OR SLAB ABOVE ALL APC-2 CEILINGS, UON. CONFIRM PAINT COMPATIBILITY WITH K-13 PRIOR TO APPLICATION.

5. ALL CONCEALED LOCATIONS (FOR EXAMPLE, ABOVE SUSPENDED CEILINGS AND BETWEEN WALLS) TO BE PAINTED P-5, UON.

6. ALL EQUIPMENT AND DEVICES WITH ASSOCIATED SUB-CONSULTANT DRAWINGS OR SPECS ARE FOR REFERENCE ONLY. DRAWINGS DO NOT REFLECT ADDENDA OR ALL DEVICES IN PROJECT. REFER TO CORRESPONDING SUB-CONSULTANT DRAWINGS, SPECS, AND ADDENDA FOR COMPLETE SCOPE AND REQUIREMENTS IN ALL SPACES.

7. PROVIDE CONDUIT, PULLWIRES, AND BOXES FOR ALL LINE AND LOW VOLTAGE DEVICES IN ALL EXPOSED OR CONCEALED SPACES.

8. PROVIDE SHOP DRAWINGS SHOWING ROUTING FOR ALL CONDUIT IN ALL EXPOSED OR CONCEALED LOCATIONS.

9. EXTENTS OF APC-2 SHOWN FOR REFERENCE. SEE DETAILS FOR ALL INTENDED ALIGNMENTS AND EDGE DIMENSION CONSTRAINTS.

10. ALL LIGHTING TO BE CENTERED IN HALLWAYS AND IN CEILING PANELS UNLESS OTHERWISE INDICATED - CONFIRM AS REQ'D W/ ARCHITECT.

11. ALL WALL MOUNTED EXIT SIGNS TO BE RECESSED IN WALL W/ FACE OF SIGN FLUSH TO FACE OF WALL.

12. SEE SHEET A-002 FOR REFLECTED CEILING PLAN LEGEND.

13. AS NEEDED PROVIDE PTD PLYWOOD SHELF WITH MTL FRAMING FOR REMOTE DRIVER FOR LED LIGHT TYPE, HIDDEN FROM VIEW. DO NOT REST ON BAFFLE CEILING.

Damian Titus
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
NYC Development Hub

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KEY PLAN

ISSUE △		PRINTING	DATE
44	33	DOB AMENDMENT 5	04.08.2016
19		DOB AMENDMENT 3	09.16.2015
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10	4	100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

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REGISTERED ARCHITECT
RICARDO SCOFIDIO
STATE OF NEW YORK
008800

DRAWN BY
RS

CHECKED BY
JD

PROJECT NUMBER
11017

TITLE
RCP FIXED BUILDING 08 LEVEL

DRAWING NO.
A-208.01

B-SCAN NO.
A-208.01

291

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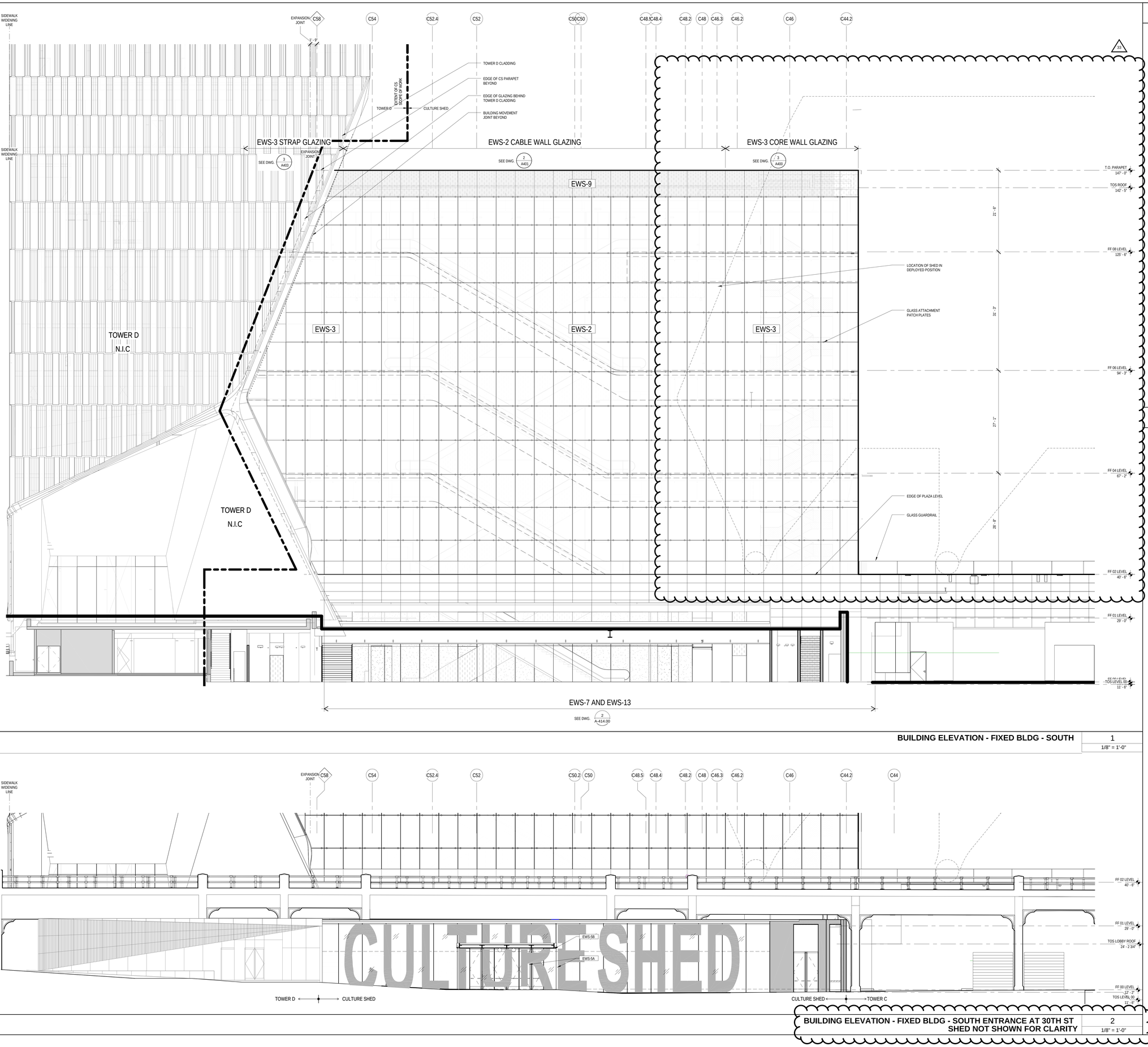
E350437074S Scan Code



BUILDING ELEVATION - FIXED BLDG - SOUTH | 1 | 1/8" = 1'-0"

CULTURE SHED

BUILDING ELEVATION - FIXED BLDG - SOUTH ENTRANCE AT 30TH ST SHED NOT SHOWN FOR CLARITY | 2 | 1/8" = 1'-0"

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

LEGEND

GENERAL NOTES

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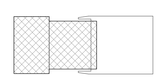

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7	3	ADV. PROCUREMENT ADDENDUM 3	01.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014
3	1	ADV. PROCUREMENT ADDENDUM 1	10.03.2014
1		ADV. PROCUREMENT BID SET	06.16.2014

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REGISTERED ARCHITECT
RICHARD SCOFIDIO
STATE OF NEW YORK
036806

DRAWN BY SK
CHECKED BY JD

PROJECT NUMBER
11017

TITLE
ELEVATION FIXED BUILDING SOUTH & 30TH ST STOREFRONT

DRAWING NO.
A-301.01

B-SCAN NO.

A-301.01

291

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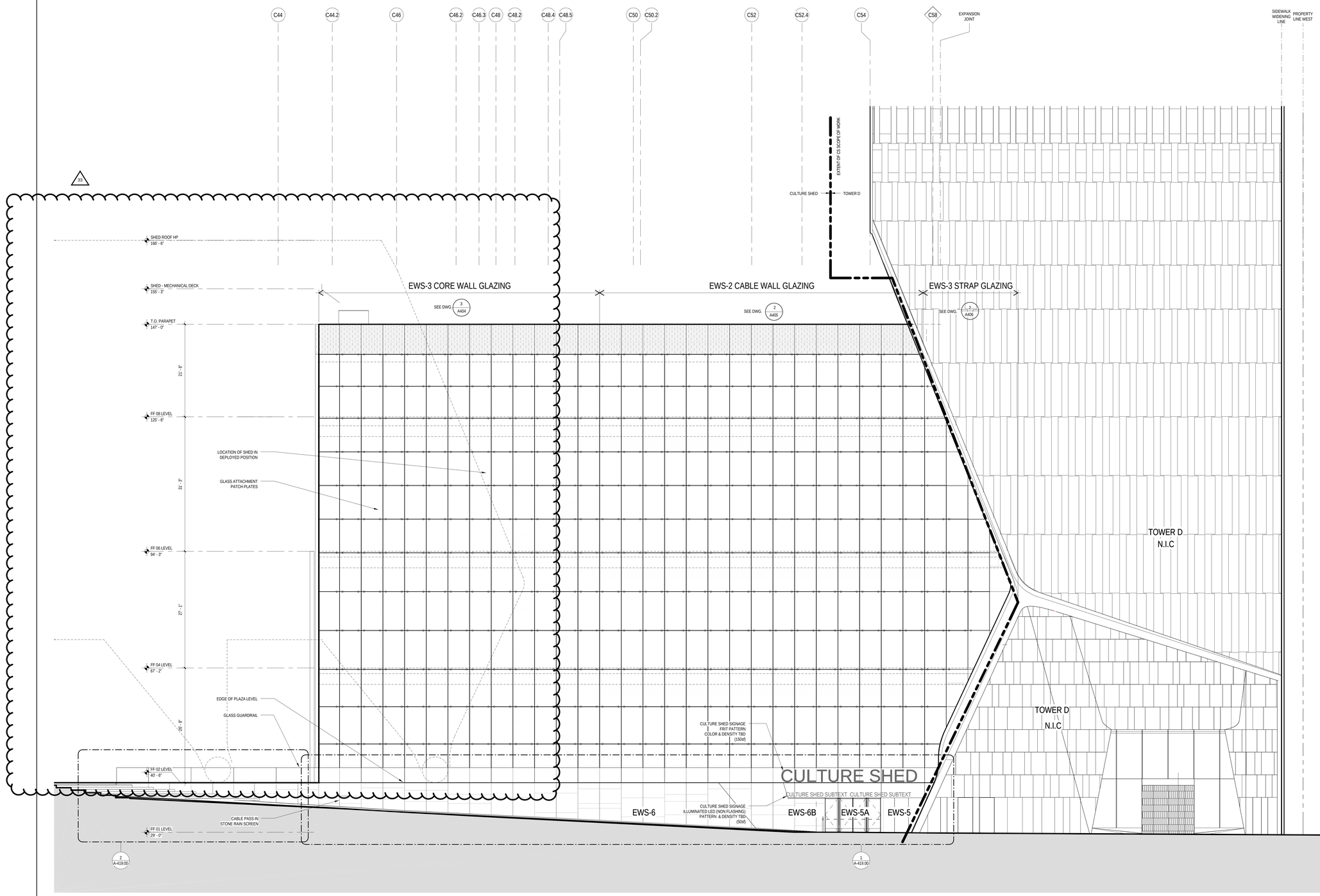

BUILDING ELEVATION - FIXED BLDG - NORTH
SHED NOT SHOWN FOR CLARITY

1

1/8" = 1'-0"

LEGEND

GENERAL NOTES

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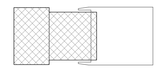
KEY PLAN



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7	3	ADV. PROCUREMENT ADDENDUM 3	01.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014
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REGISTERED ARCHITECT RICARDO SCOFIDIO 026800 STATE OF NEW YORK

DRAWN BY SK/MMM
CHECKED BY JD

PROJECT NUMBER
11017

TITLE
ELEVATION FIXED BUILDING NORTH

DRAWING NO.
A-302.01

B-SCAN NO.
A-302.01

291

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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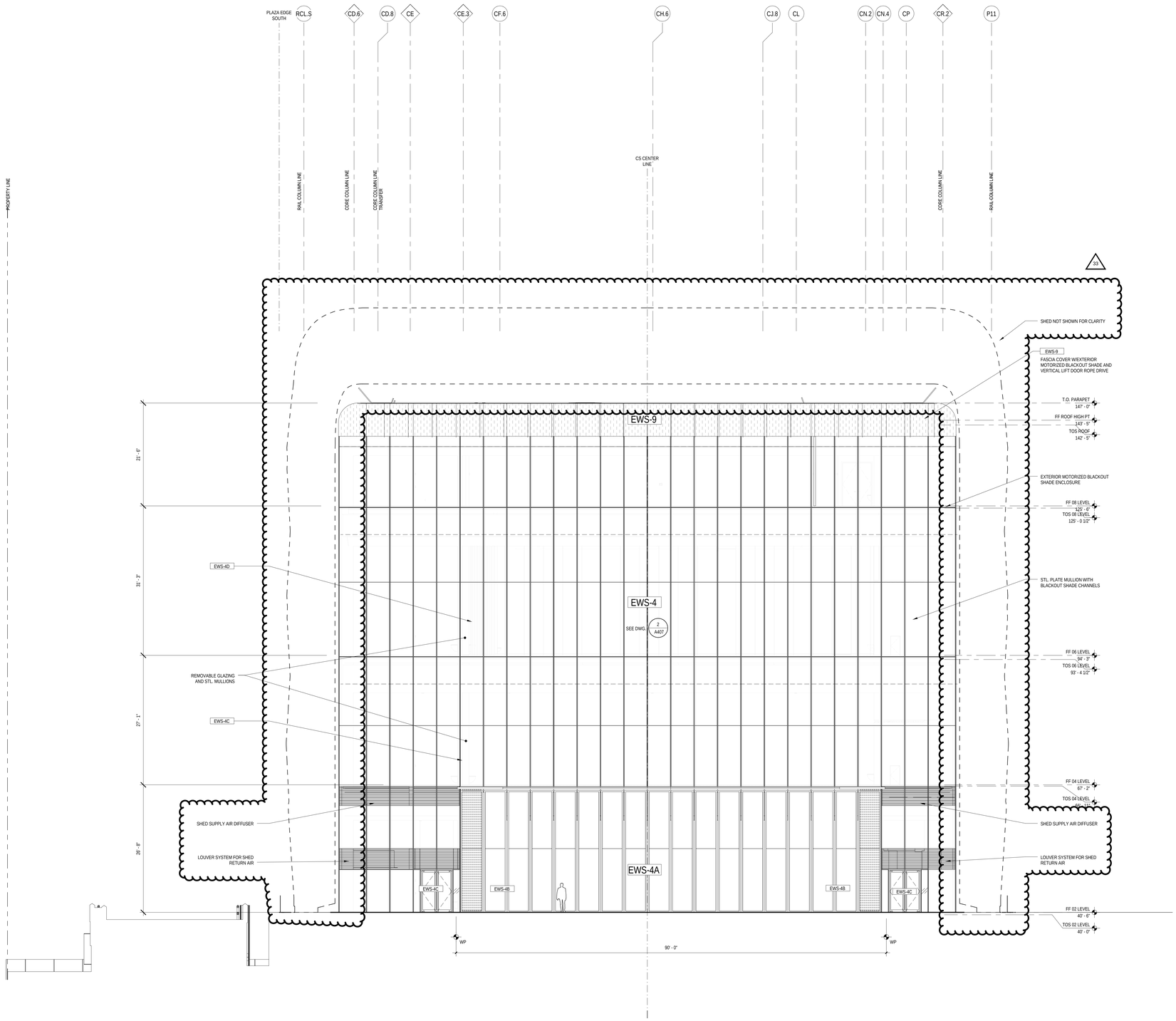

ENLARGED BUILDING ELEVATION - FIXED BLDG - EAST

1

1/8" = 1'-0"

LEGEND

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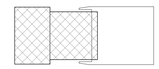

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6		PRELIMINARY DOB SUBMISSION	12.10.2014
1		ADV. PROCUREMENT BID SET	06.16.2014

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REGISTERED ARCHITECT RICARDO SCOFIDIO STATE OF NEW YORK 008800

DRAWN BY SK
CHECKED BY JD

PROJECT NUMBER
1.1017

TITLE
ELEVATION FIXED BUILDING EAST

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
A-303.01

B-SCAN NO.

A-303.01

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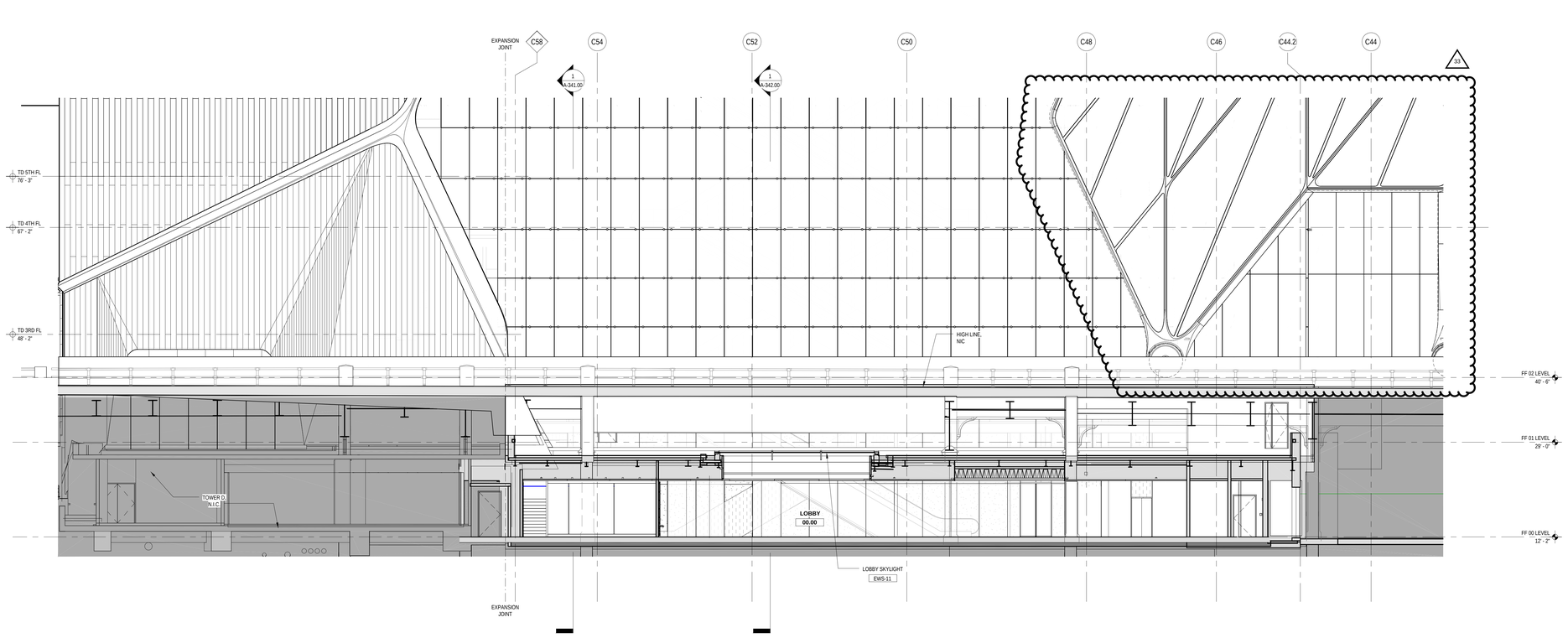

HIGHLINE SECTION - E/W - 30TH ST LOBBY 01

1

1/8" = 1'-0"

LEGEND

GENERAL NOTES

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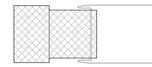

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9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

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PROJECT NUMBER
11017

TITLE

SECTIONS FIXED BUILDING EAST/WEST + CLERESTORY ELEVATIONS

DRAWING NO.
A-331.01

B-SCAN NO.

A-331.01

291

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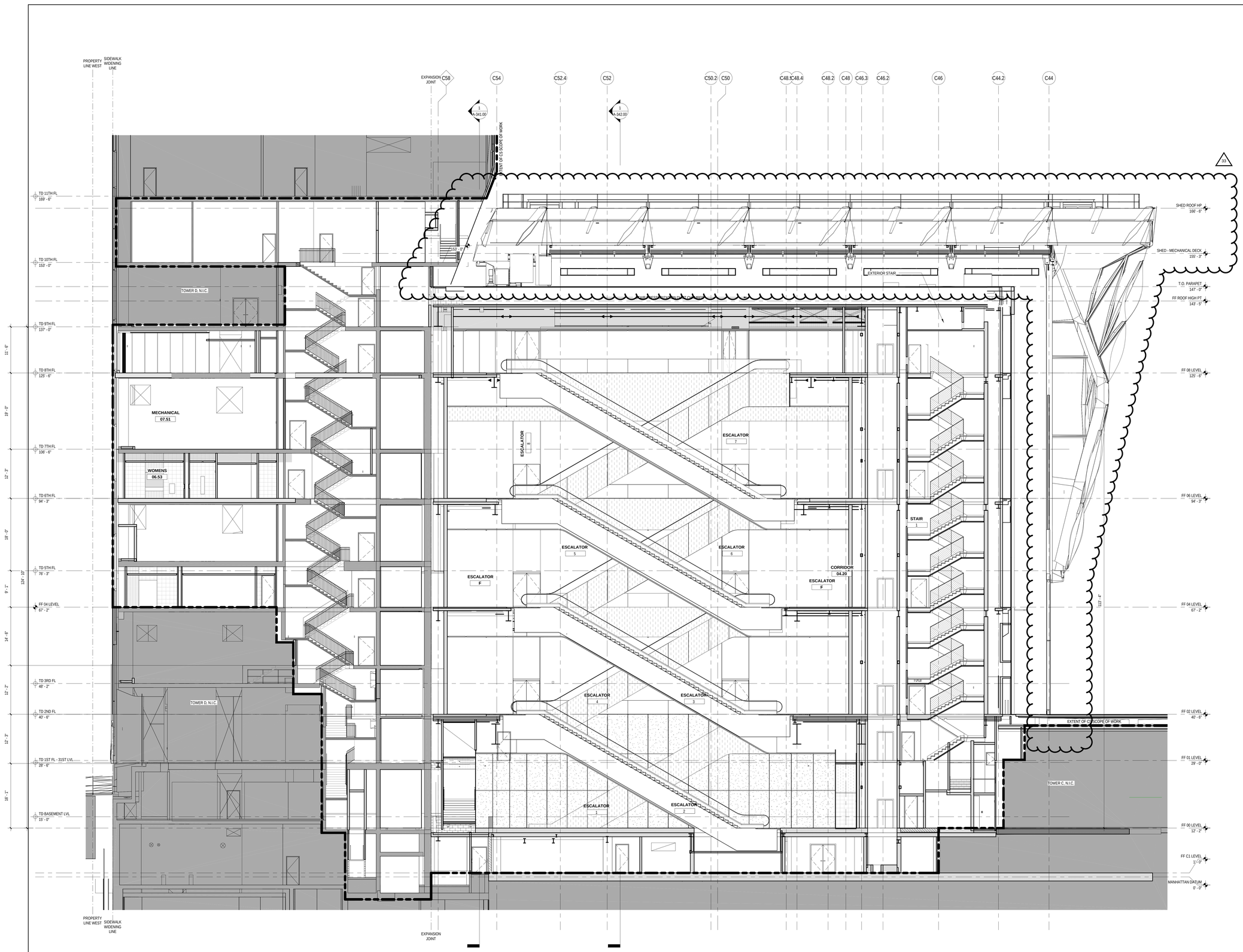
Damian Titus

Buildings

APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DEPT OF BLDGS 421102297 Job Number
E5536654475 Scan Code



BUILDING SECTION - E/W - 02 | 1 | 1/8" = 1'-0"

LEGEND

GENERAL NOTES

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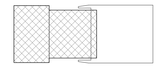
KEY PLAN



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10	4	100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

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DRAWN BY ML
CHECKED BY JD

PROJECT NUMBER
11017

TITLE

SECTION FIXED BUILDING EAST/WEST

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
MENDING APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
A-332.01

B-SCAN NO.

A-332.01

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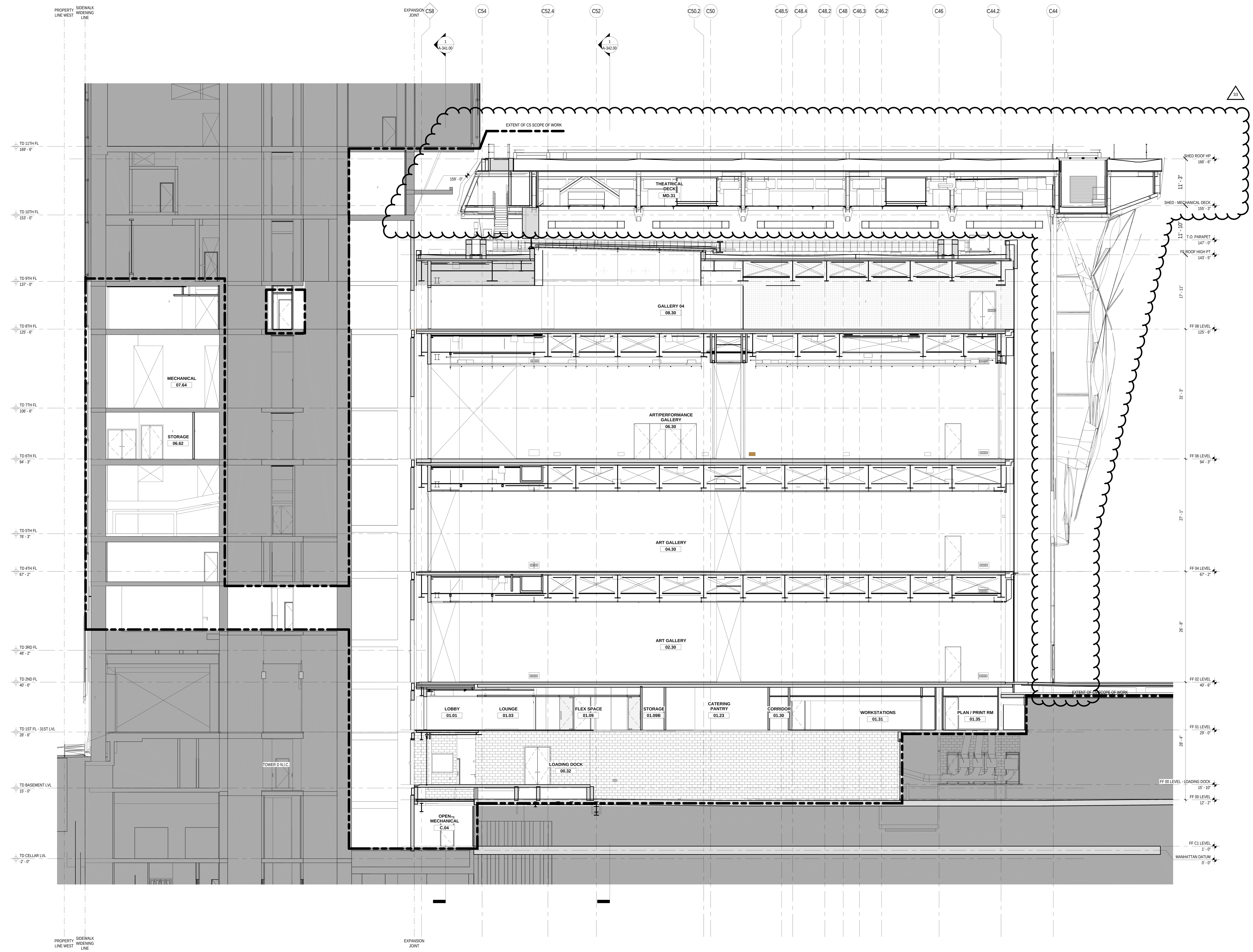

BUILDING SECTION - E/W - 03 1

1/8" = 1'-0"

LEGEND

GENERAL NOTES

CULTURE SHED

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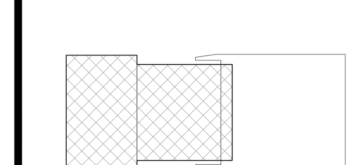
KEY PLAN



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REGISTERED ARCHITECT RICARDO SCOFIDIO 008800 STATE OF NEW YORK

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWN BY ML
CHECKED BY JD

PROJECT NUMBER
11017

TITLE
SECTION FIXED BUILDING EAST/WEST

DRAWING NO.
A-333.01

B-SCAN NO.
A-333.01

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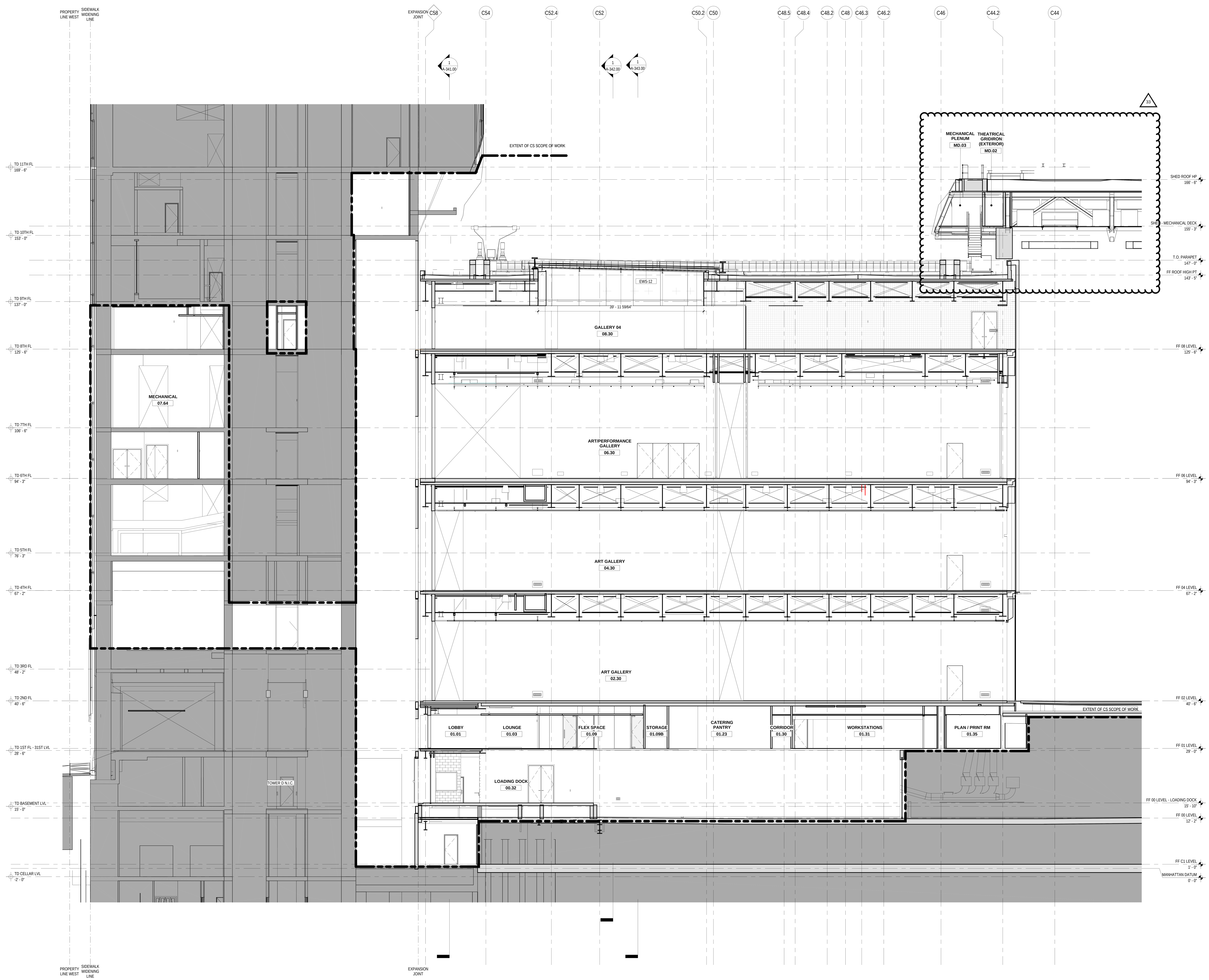

BUILDING SECTION - E/W - 03 - DEPLOYED

1

1/8" = 1'-0"

LEGEND

GENERAL NOTES

ES665532328 Scan Code

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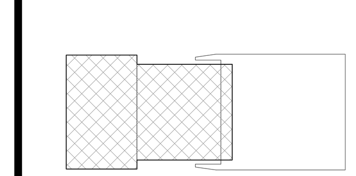

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REGISTERED ARCHITECT RICARDO SCOFIDIO STATE OF NEW YORK 008800

DRAWN BY ML
CHECKED BY JD

PROJECT NUMBER
11017

TITLE
SECTION FIXED BUILDING
EAST/WEST SHED DEPLOYED

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
A-334.00

B-SCAN NO.
A-334.00

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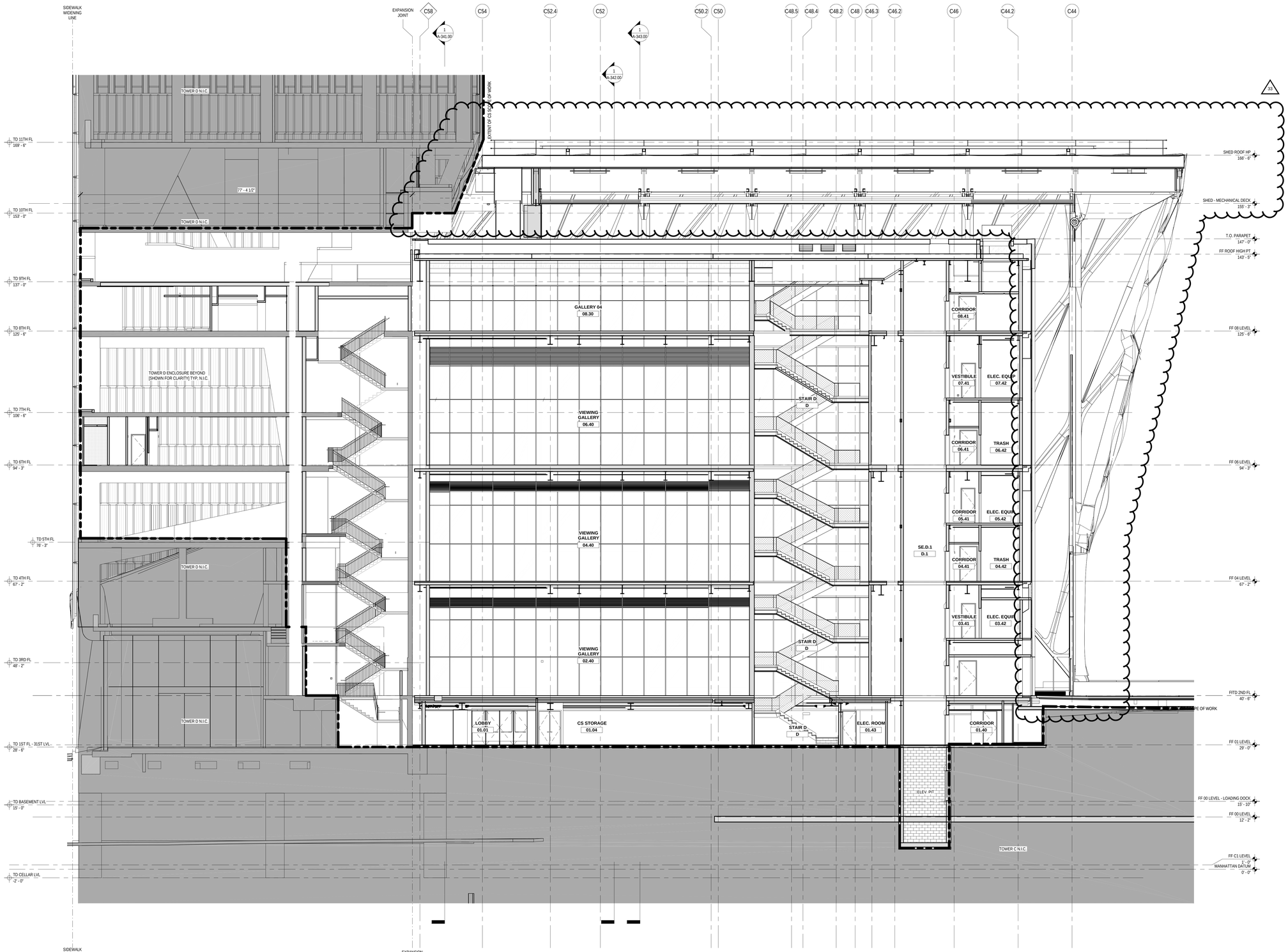

BUILDING SECTION - E/W - 04

1
1/8" = 1'-0"

LEGEND

GENERAL NOTES

CULTURE SHED

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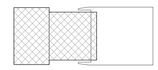

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6		PRELIMINARY DOB SUBMISSION	12.10.2014

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REGISTERED ARCHITECT RICARDO SCOFIDIO 008600 STATE OF NEW YORK

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CHECKED BY JD

PROJECT NUMBER
11017

TITLE

SECTION FIXED BUILDING EAST/WEST

DRAWING NO.

A-335.01

B-SCAN NO.

A-335.01

291

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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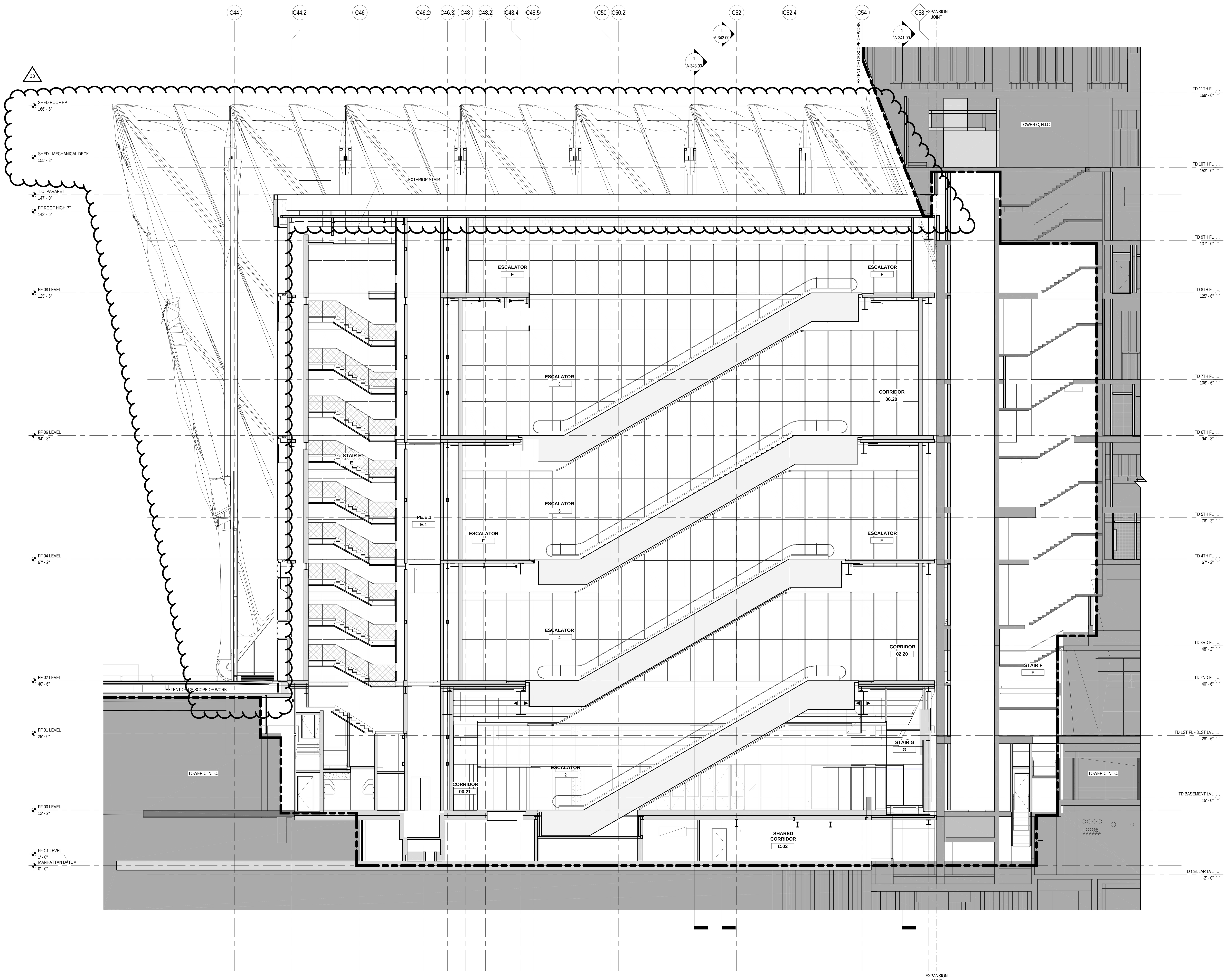
ES653697283 Scan Code



BUILDING SECTION - E/W - SHED DEPLOYED 06

1

1/8" = 1'-0"

LEGEND

GENERAL NOTES

CULTURE SHED

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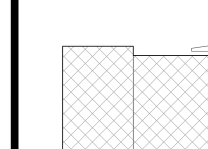

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008800
STATE OF NEW YORK

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWN BY
ML

CHECKED BY
JD

PROJECT NUMBER
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TITLE
SECTION FIXED BUILDING EAST/WEST

DRAWING NO.
A-336.01

B-SCAN NO.
A-336.01

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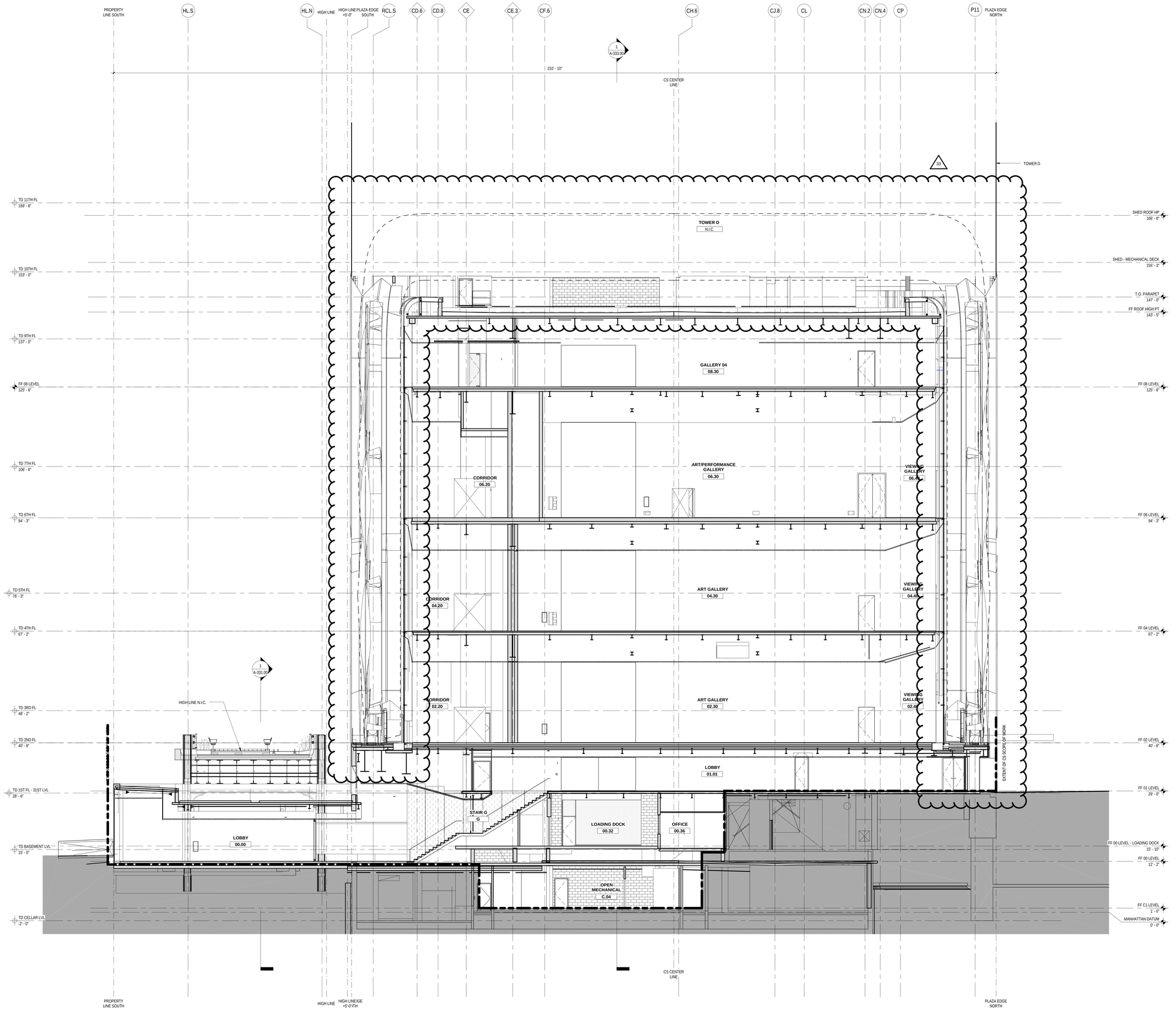

BUILDING SECTION - N/S - 01 | 1 | 1/8" = 1'-0"

LEGEND

GENERAL NOTES

Damian Titus
DOB Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 02/15/2016
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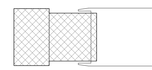
KEY PLAN



ISSUE		PRINTING	DATE
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9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

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REGISTERED ARCHITECT RICARDO SCOFIDIO 008800 STATE OF NEW YORK

DRAWN BY ML
CHECKED BY JD

PROJECT NUMBER
11017

TITLE
SECTION FIXED BUILDING NORTH/SOUTH

DRAWING NO.
A-341.01

B-SCAN NO.
A-341.01

291

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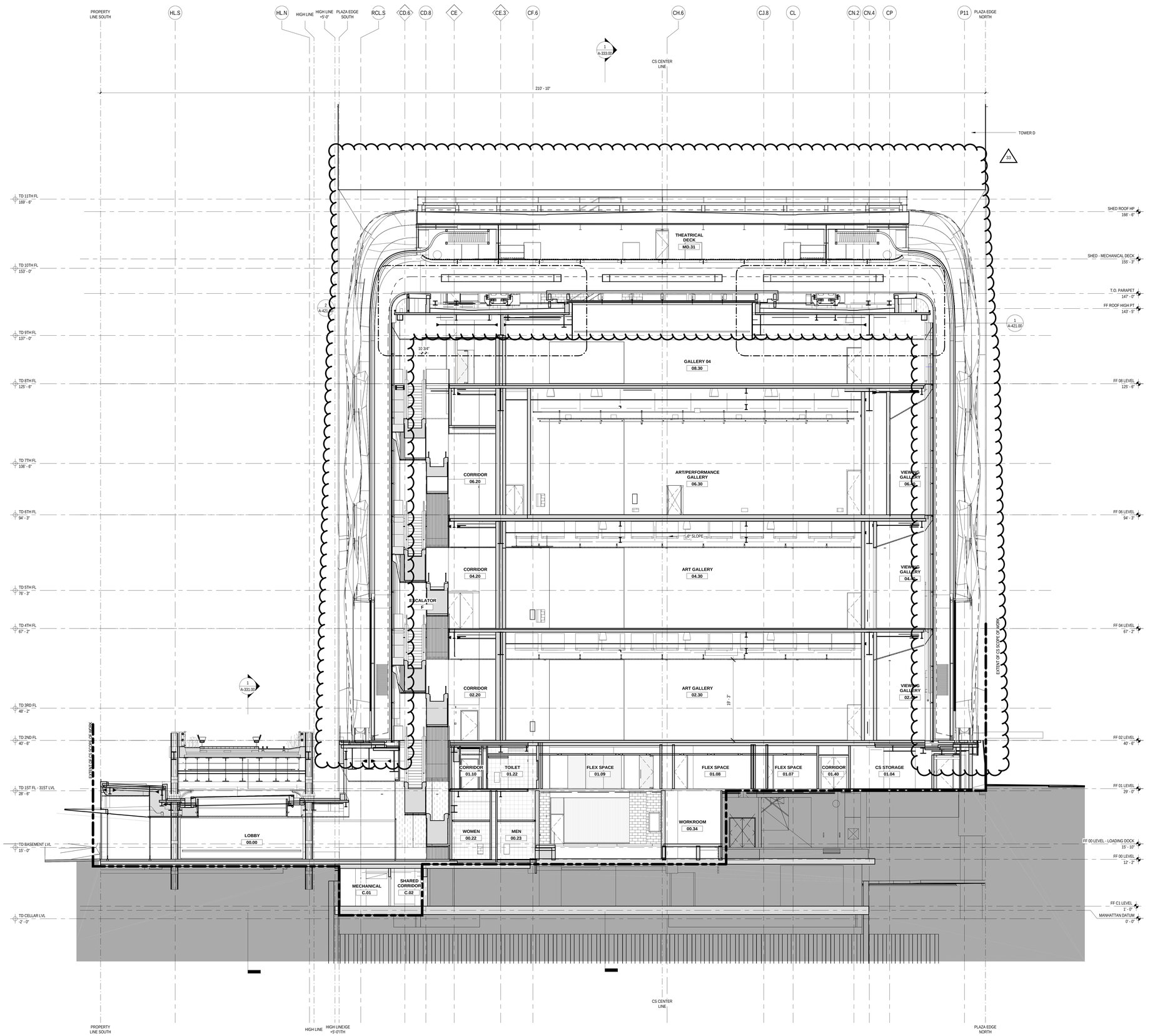

BUILDING SECTION - N/S - 02

1

1/8" = 1'-0"

LEGEND

GENERAL NOTES

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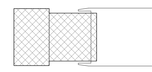

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9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

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DRAWN BY ML
CHECKED BY JD

PROJECT NUMBER
11017

TITLE

SECTION FIXED BUILDING NORTH/SOUTH

DRAWING NO.

A-342.01

B-SCAN NO.

A-342.01

291

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
MENDMENTS/CLARATION
Date: 07/15/2016
NYC Development Hub

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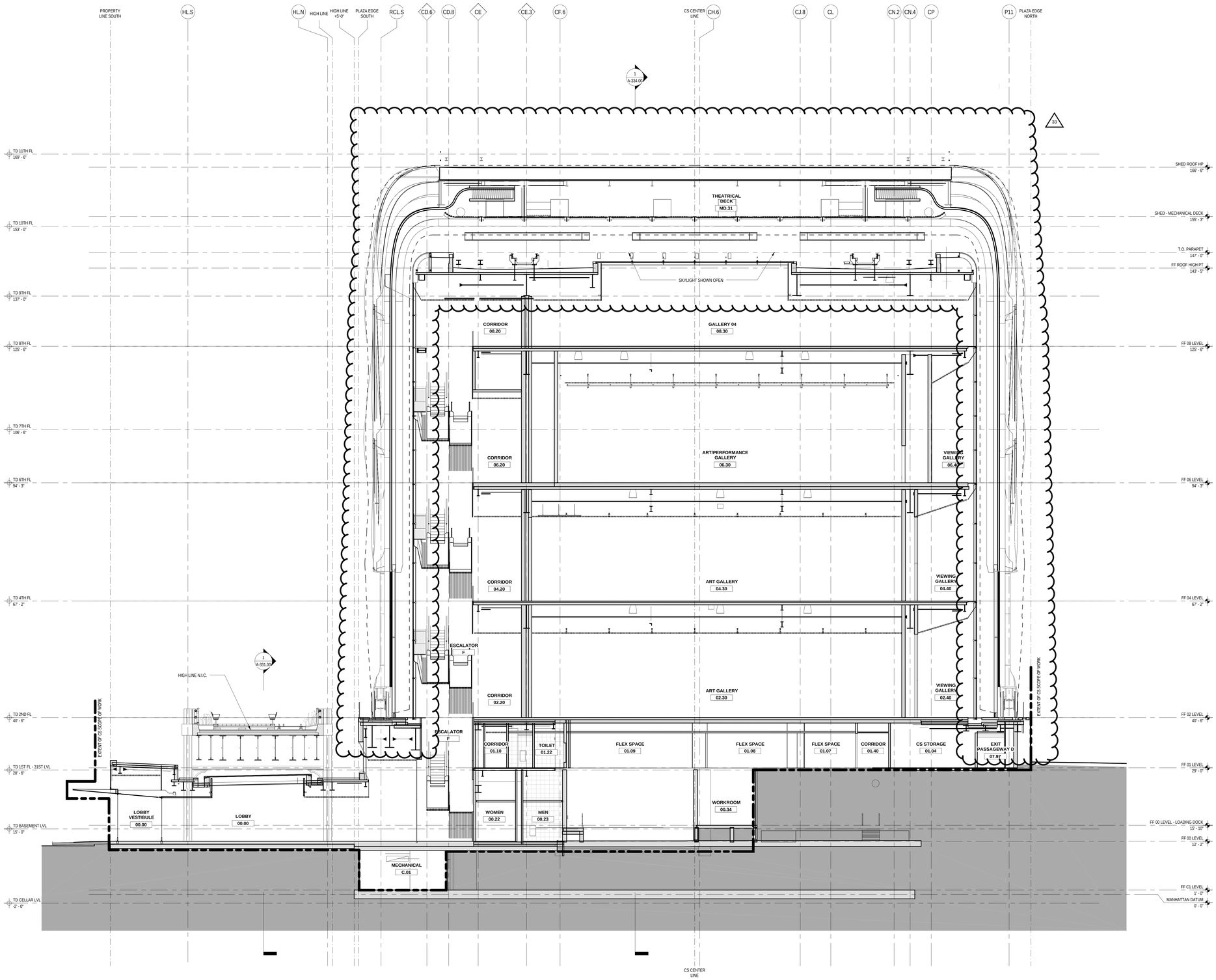

BUILDING SECTION - N/S - 02 - DEPLOYED | 1 | 1/8" = 1'-0"

LEGEND

GENERAL NOTES

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REGISTERED ARCHITECT RICARDO SCOFIDIO 026850 STATE OF NEW YORK

DRAWN BY ML
CHECKED BY JD

PROJECT NUMBER
11017

TITLE
SECTION FIXED BUILDING NORTH/SOUTH DEPLOYED

Damian Titus
BuildingConnected
APPROVED
Under Directive 2 of 1975
ARTICULATED ELEVATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
A-343.01

B-SCAN NO.
A-343.01

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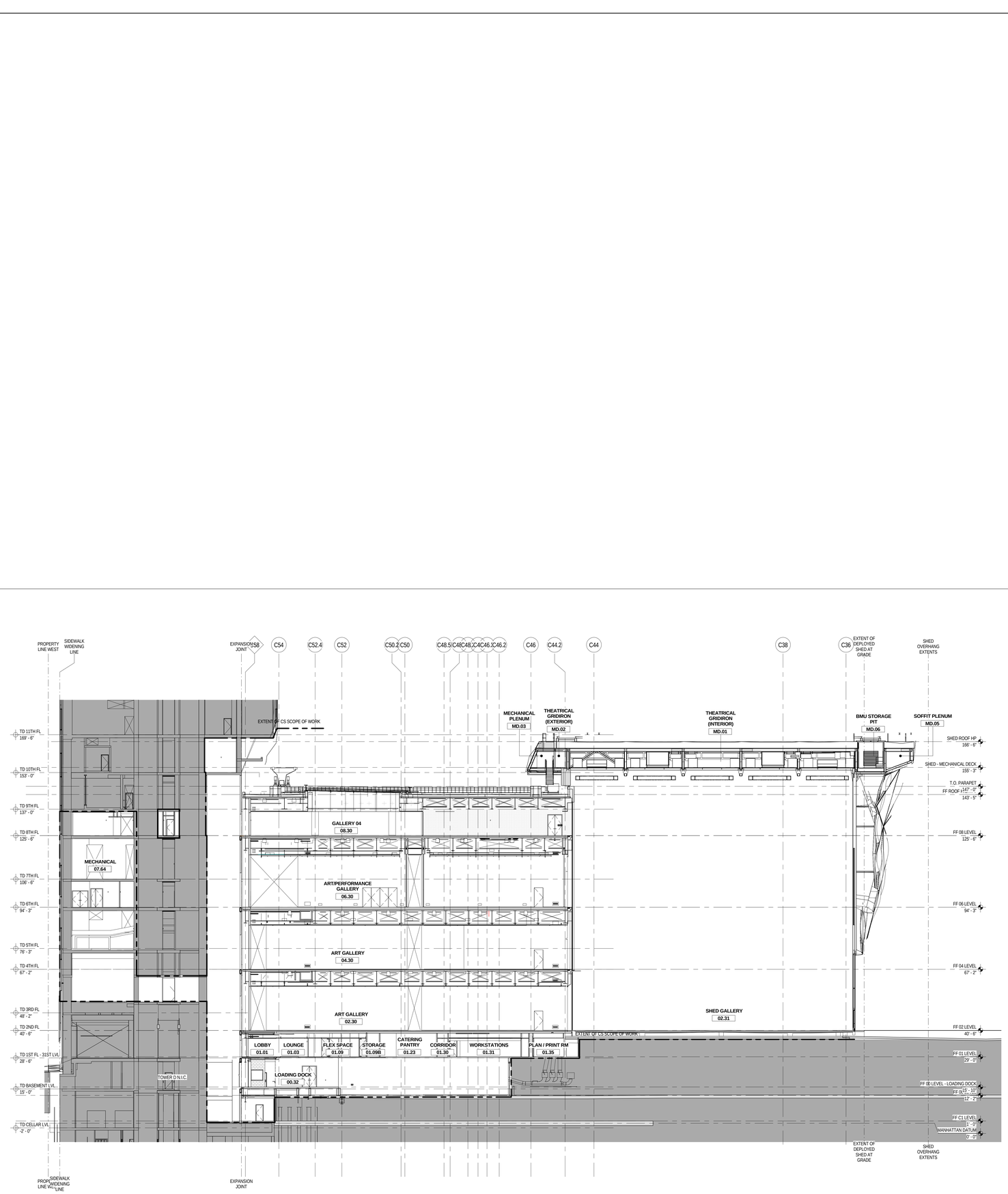

BUILDING SECTION - E/W - 03 - FULL BLDG | 1 | 1/16" = 1'-0"

LEGEND

GENERAL NOTES

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KEY PLAN

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REGISTERED ARCHITECT RICARDO SCOFIDIO 008600 STATE OF NEW YORK

DRAWN BY MM
CHECKED BY MS

PROJECT NUMBER
11017

TITLE
SECTION - FULL

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
A-344.00

B-SCAN NO.
A-344.00

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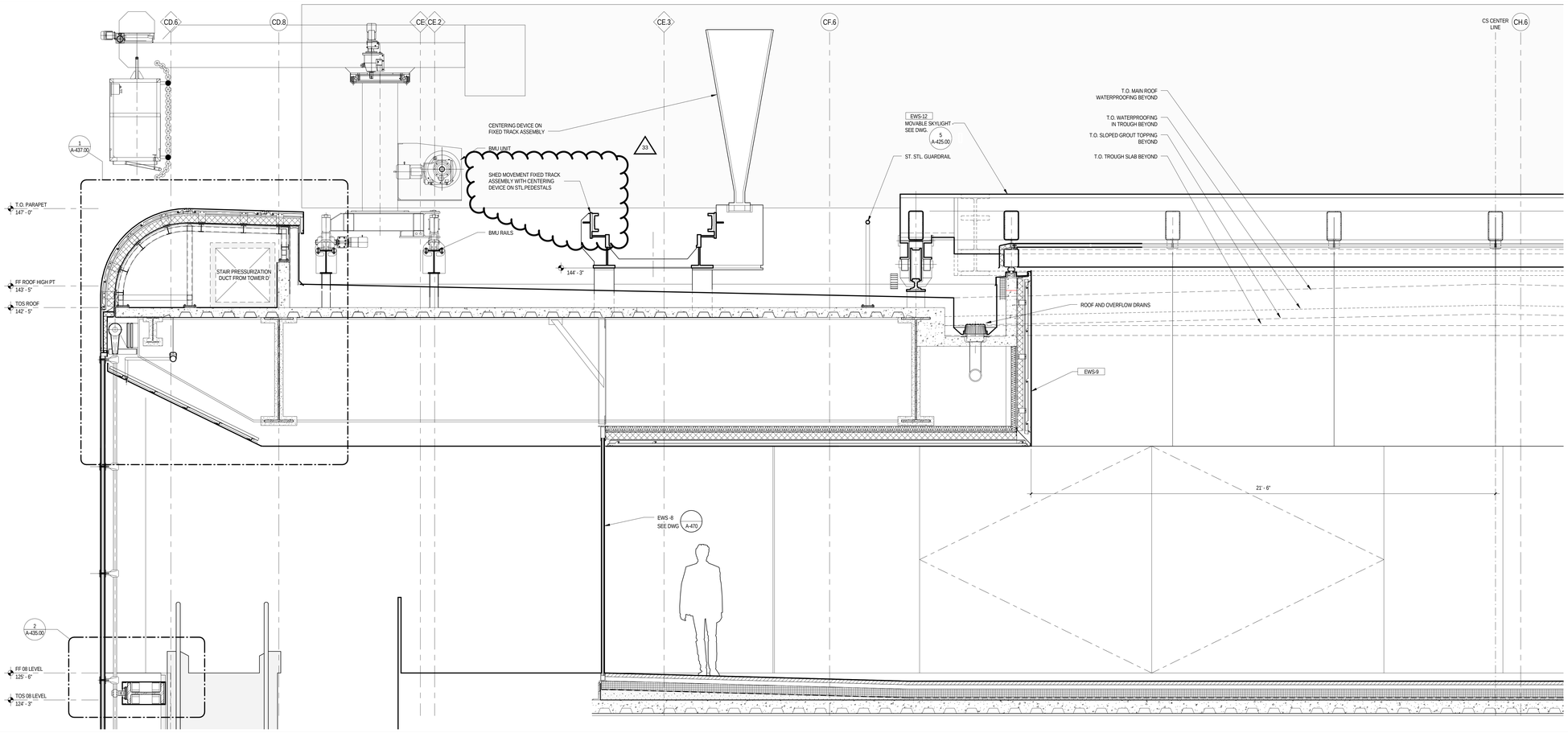
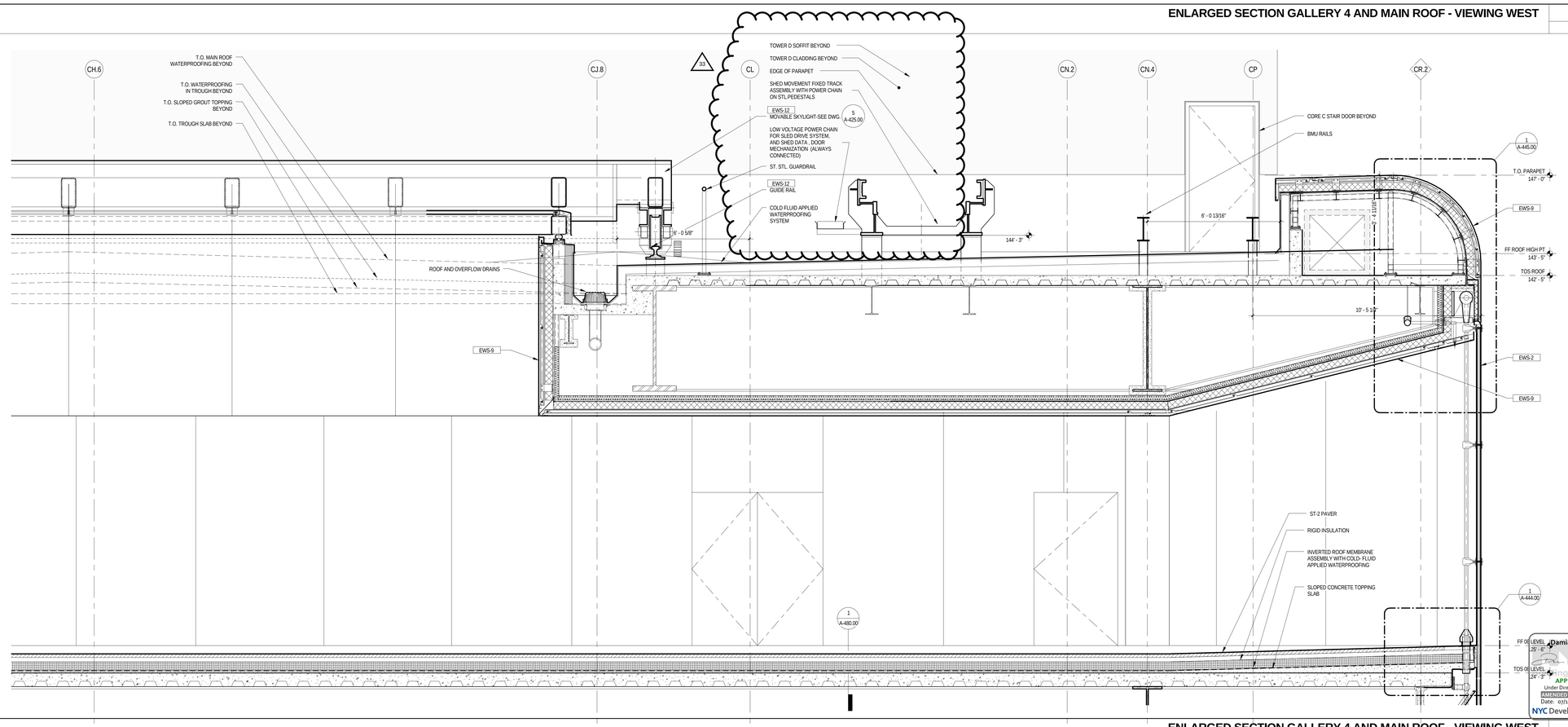


ENLARGED SECTION GALLERY 4 AND MAIN ROOF - VIEWING WEST

2

1/2" = 1'-0"



ENLARGED SECTION GALLERY 4 AND MAIN ROOF - VIEWING WEST

1

1/2" = 1'-0"

Damian Titus

APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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6		PRELIMINARY DOB SUBMISSION	12.10.2014
1		ADV. PROCUREMENT BID SET	06.16.2014

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DRAWN BY MH
CHECKED BY

PROJECT NUMBER
11017

TITLE
EXTERIOR WALL SYSTEMS - FIXED BLDG ROOF

SCALE: 1/2" = 1'-0"

0 8 16 24

DRAWING NO.
A-421.00

B-SCAN NO.
A-421.00

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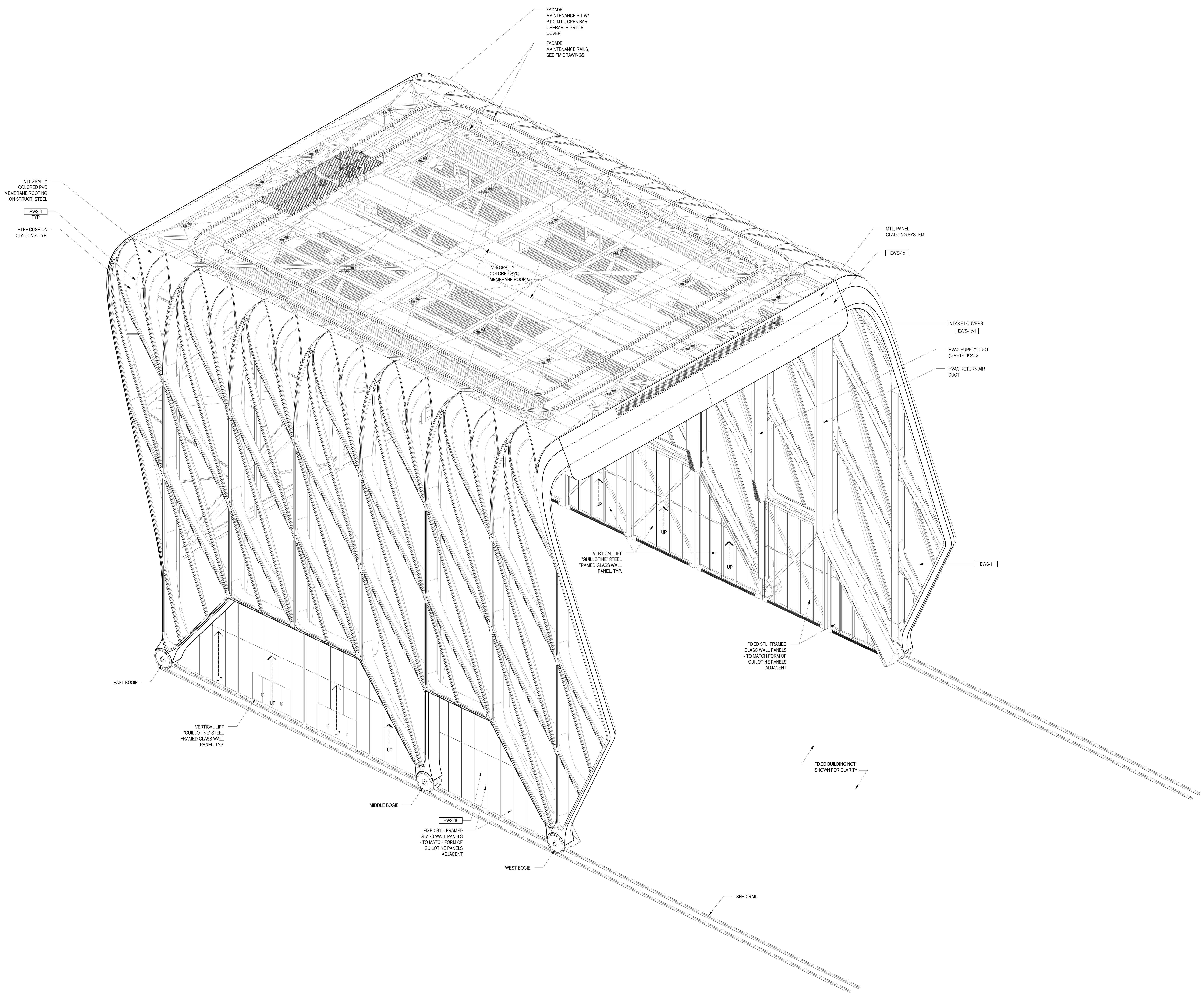

SHED 3D - AXON VIEW | 1 | NTS

LEGEND

GENERAL NOTES

1.
For Shed components this drawing set is to be considered integral with the provided 3D models and may not be considered independently from the models. The contractor is to base their bid upon the information provided in both the drawings and 3D models. In matters of form and geometry the three dimensional model takes precedence in the instance of a discrepancy between drawing and model. In all other matters the contractor shall seek the opinion of the Architect and Structural Engineer to resolve the discrepancy.

2.
Geometry, dimensions and surface contouring, blending and intersection of sections illustrated in the structural drawings are provided for reference and generation of the structural arrangement and details only. The 3D model issued by the Architect defines the exterior surface and shall be adhered to for the final geometry. It is the responsibility of the Contractor to identify any discrepancies or ambiguities for discussion, resolution and direction from the Architect and Structural Engineer.

3.
Typical N/S wall node:
The geometry created by the intersecting main verticals and diagonals shall be in accordance with the 3D model and follow, as a minimum, the quality exhibited in the approved mock-up. The general concept is that edges flow smoothly and continuously between the straight edge of a diagonal through a curve to the adjacent edge of the vertical and the interlying surfaces between these edges are blended and contoured to define a smooth, uninterrupted transition.

4.
Typical Node Elsewhere:
The geometry created by the intersecting elements shall be in accordance with the 3D model. The level of quality is to be similar to the approved mock-up for the typical node. The general concept is that edges flow smoothly and continuously between the edge of one element to the corresponding edge of the adjacent element and the interlying surfaces between these edges are blended and contoured to define a smooth, uninterrupted transition.

5.
This drawing should be considered integral with the written Specifications issued along with the drawings and 3D models. Refer to the Advanced procurement Bid Issue Specifications Table of Contents.

6.
Structural steel cladding enclosing selected areas of the Shed (referred to as EWS-1c) shall be in the scope of the steel contractor for continuity with adjacent primary steel members. Criteria for tolerance and flatness to match that of the structural steel (see structural drawings & specifications). Plate configuration, including thickness, internal stiffeners and diaphragms, to be proposed by the fabricator and subject to agreement with the Architect and Engineer to provide an enclosure which satisfies the aesthetic and structural requirements. Refer to 3D model for extent of EWS-1c.

7.
Visually exposed HVAC supply and return ducts in the Shed, shown herein, are to be in the scope of the steel contractor to ensure continuity of appearance with primary steel. Criteria for tolerance and flatness to match that of the structural steel (see structural drawings & specifications). Plate configuration, including thickness, internal stiffeners and diaphragms, to be proposed by the fabricator and subject to agreement with the Architect and Engineer to provide an enclosure which satisfies the aesthetic and structural requirements. The mechanical ductwork carries its own self-weight and is not a primary load-bearing element. Internal stiffening may not create interference with airflow requirements of the duct. Refer to 3D model.

Damian Ellis
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AMENDED APPLICATION
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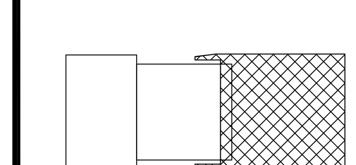

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1		ADV. PROCUREMENT BID SET 06.16.2014	06.16.2014

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REGISTERED ARCHITECT
RICARDO SCOFIDIO
008800
STATE OF NEW YORK

DRAWN BY Author
CHECKED BY Checker

PROJECT NUMBER
11017

TITLE
TITLEBLOCK
Axonometrics Deployable Shed

SCALE: NTS

0 8 16 24

DRAWING NO.
A-501.00

B-SCAN NO.
A-501.00

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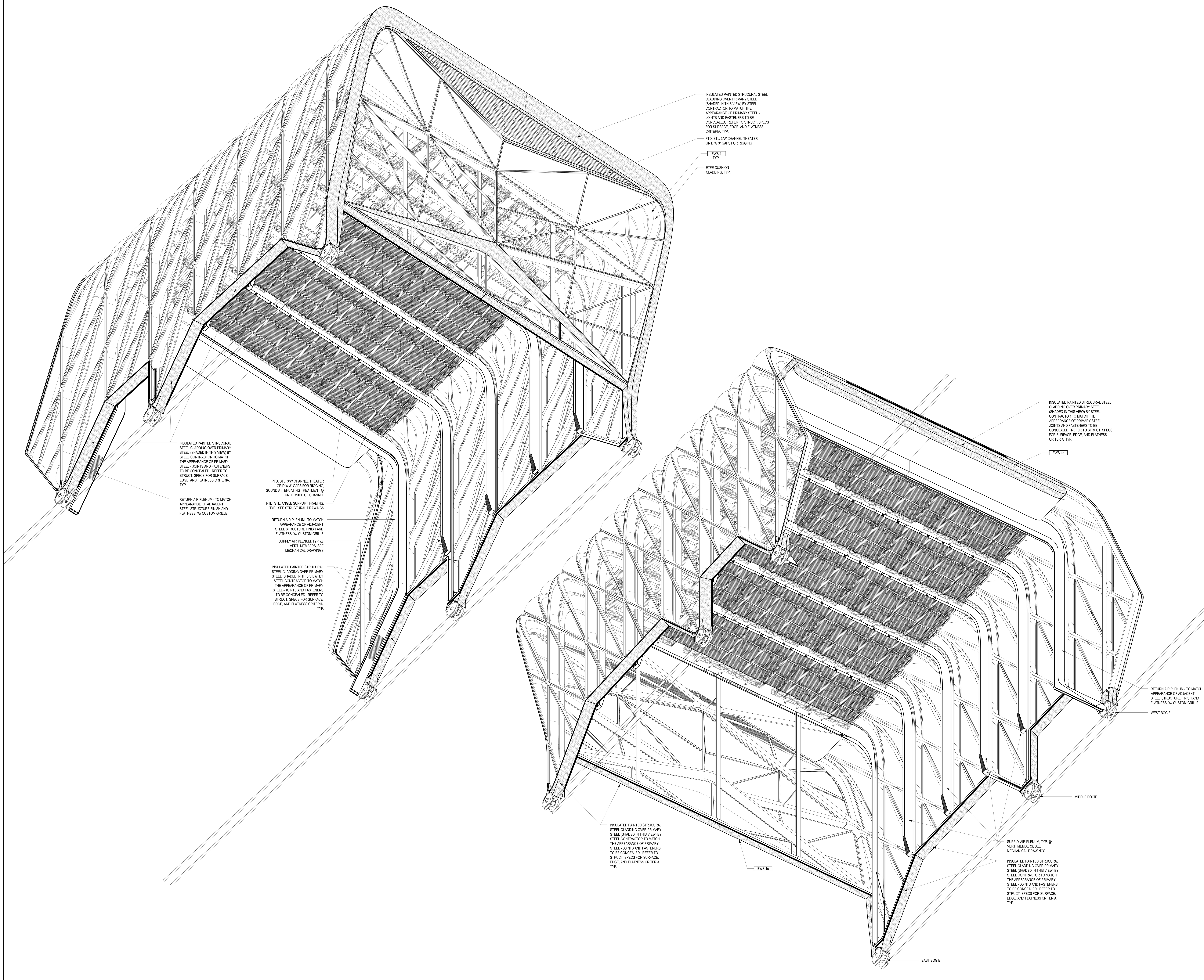

SHED 3D - AXON VIEW - EXTENT OF CLADDING DIAGRAM
GUILLOTINE DOORS AND FIXED GLAZING OMITTED FOR CLARITY

1
NTS

LEGEND

EWS-1c
Insulated ptd Structural Steel Cladding

GENERAL NOTES

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Damian Titus
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Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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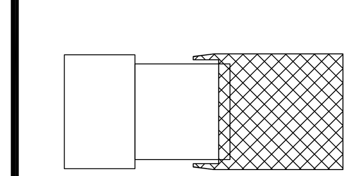

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0 8 16 24

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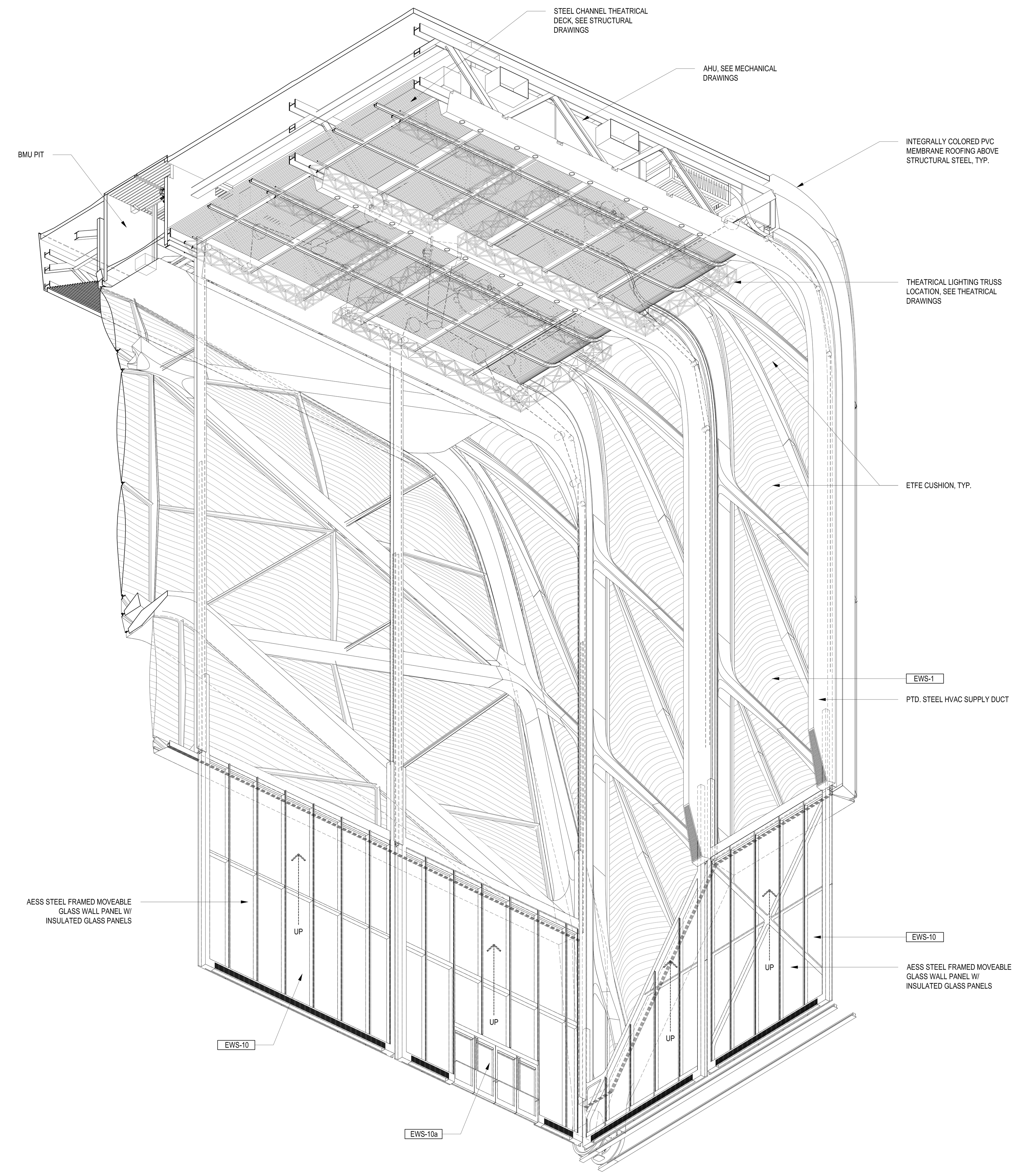
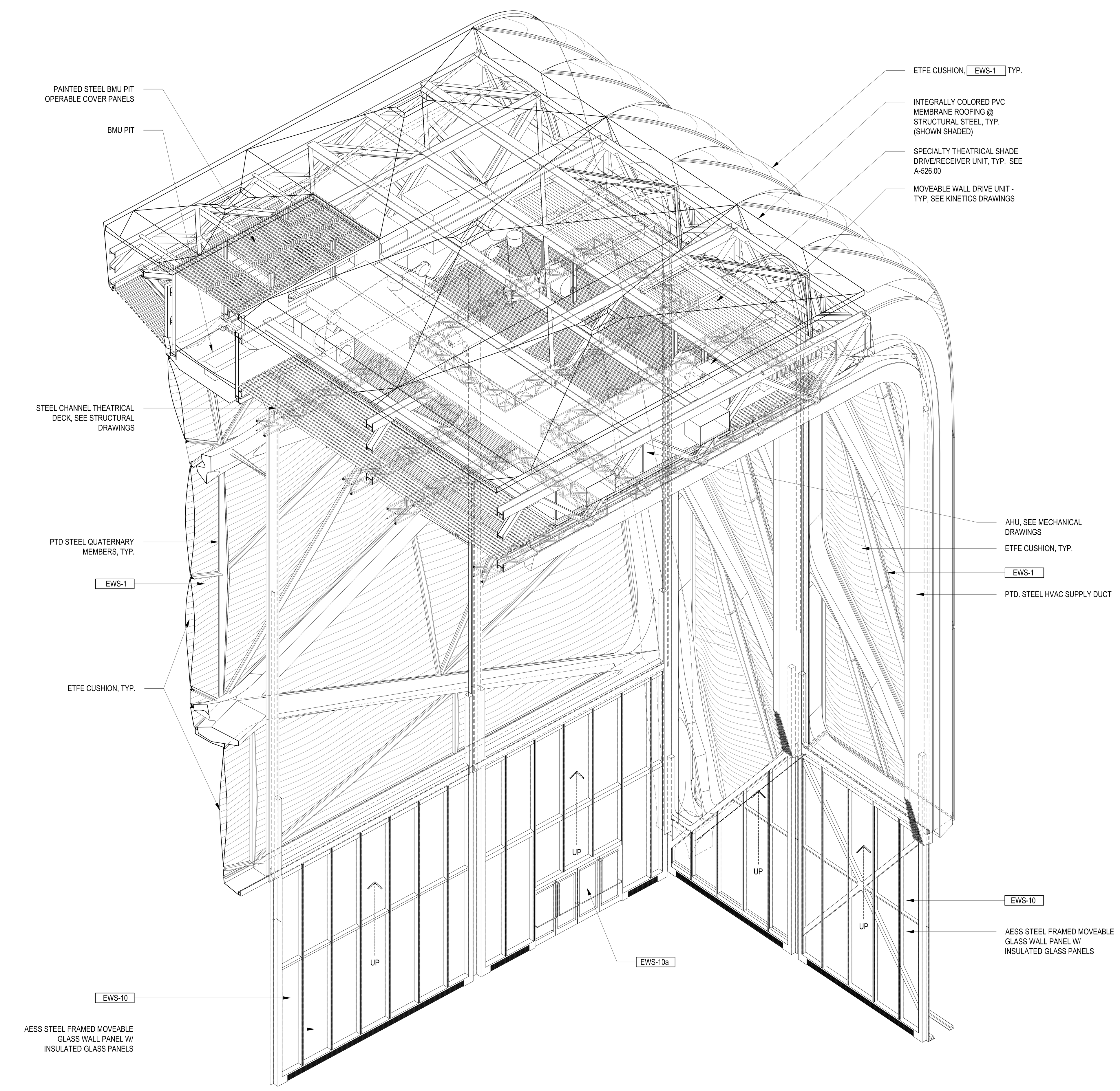


PARTIAL AXONOMETRIC - SOUTHEAST CORNER VIEW - FROM BELOW (PLAZA OMITTED)

1

NTS



PARTIAL AXONOMETRIC - SOUTHEAST CORNER VIEW - FROM ABOVE

2

NTS

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Damian Titus
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/18/2016
NYC Development Hub

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REGISTERED ARCHITECT
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008800
STATE OF NEW YORK

DRAWN BY
Author

CHECKED BY
Checker

PROJECT NUMBER
11017

TITLE
TITLEBLOCK
Partial Shed Axonometrics

SCALE: NTS

0 8 16 24

DRAWING NO.
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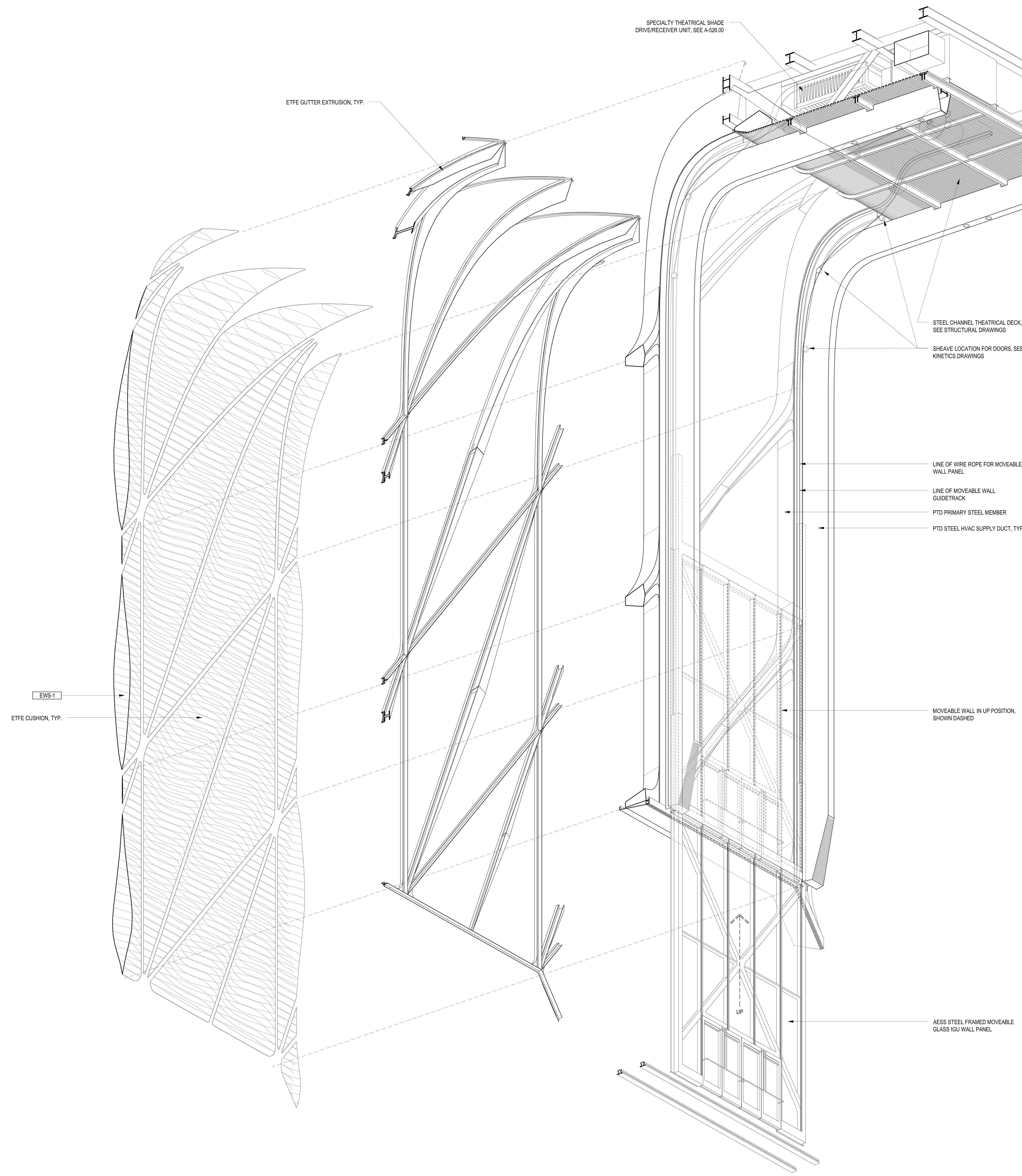

EXPLODED AXONOMETRIC - FROM BELOW 1 NTS

LEGEND

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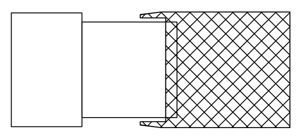

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DRAWN BY Author
CHECKED BY Checker

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SCALE: NTS

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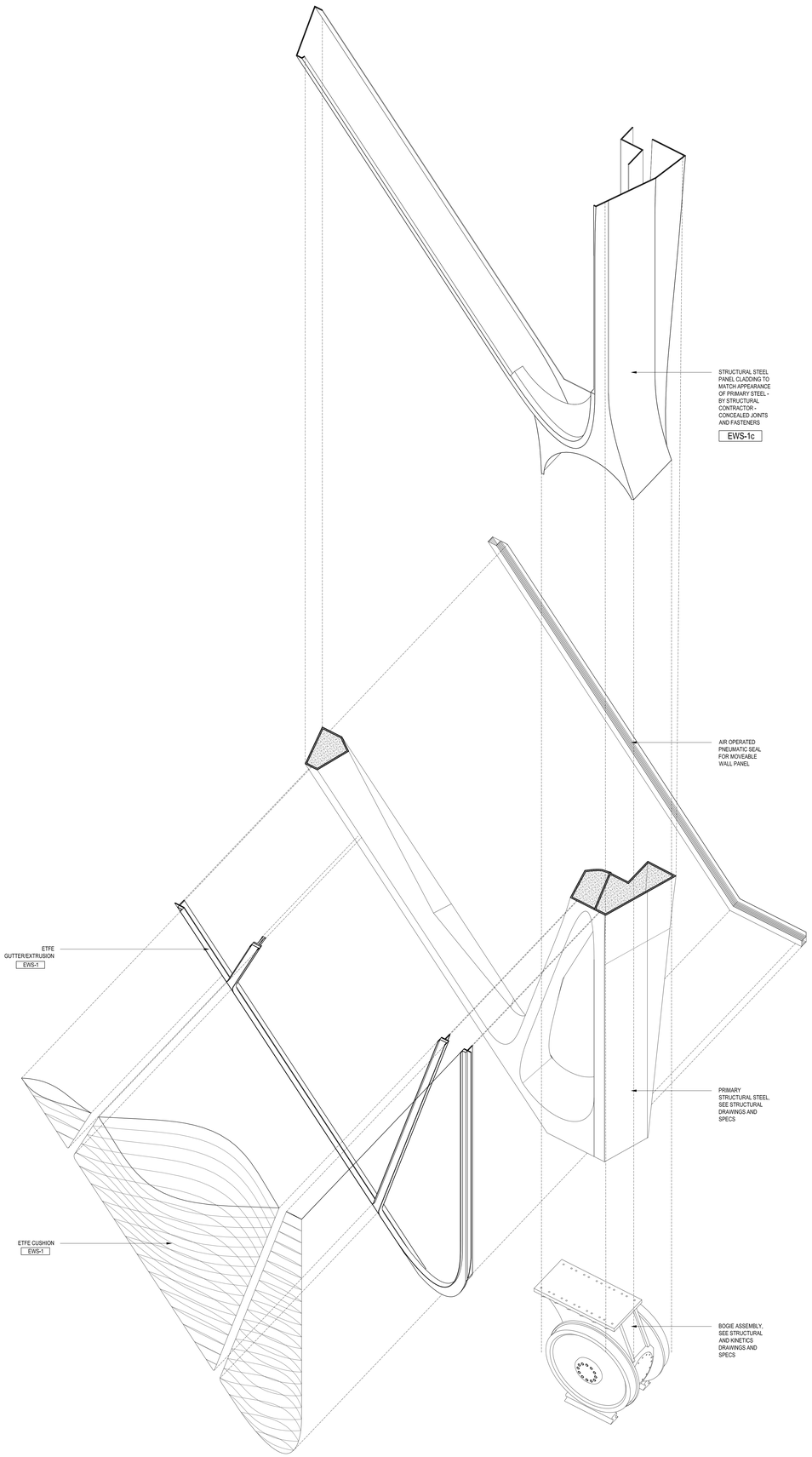
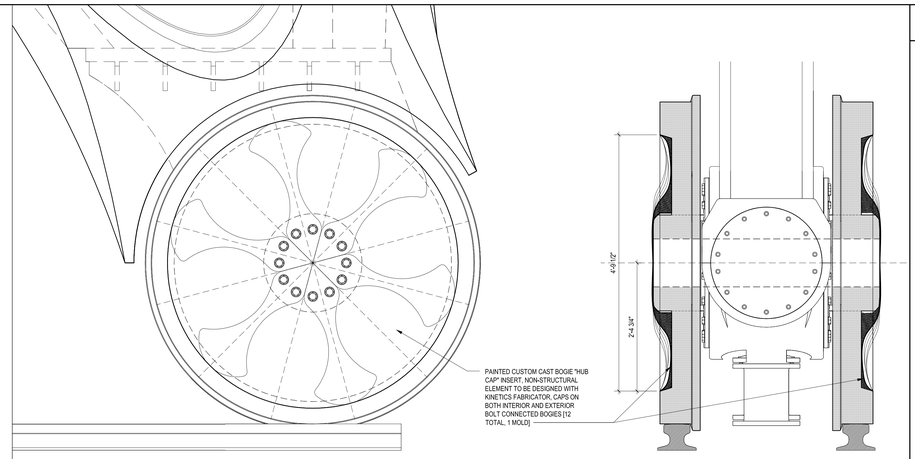


EAST BOGIE EXPLODED AXONOMETRIC VIEW

1

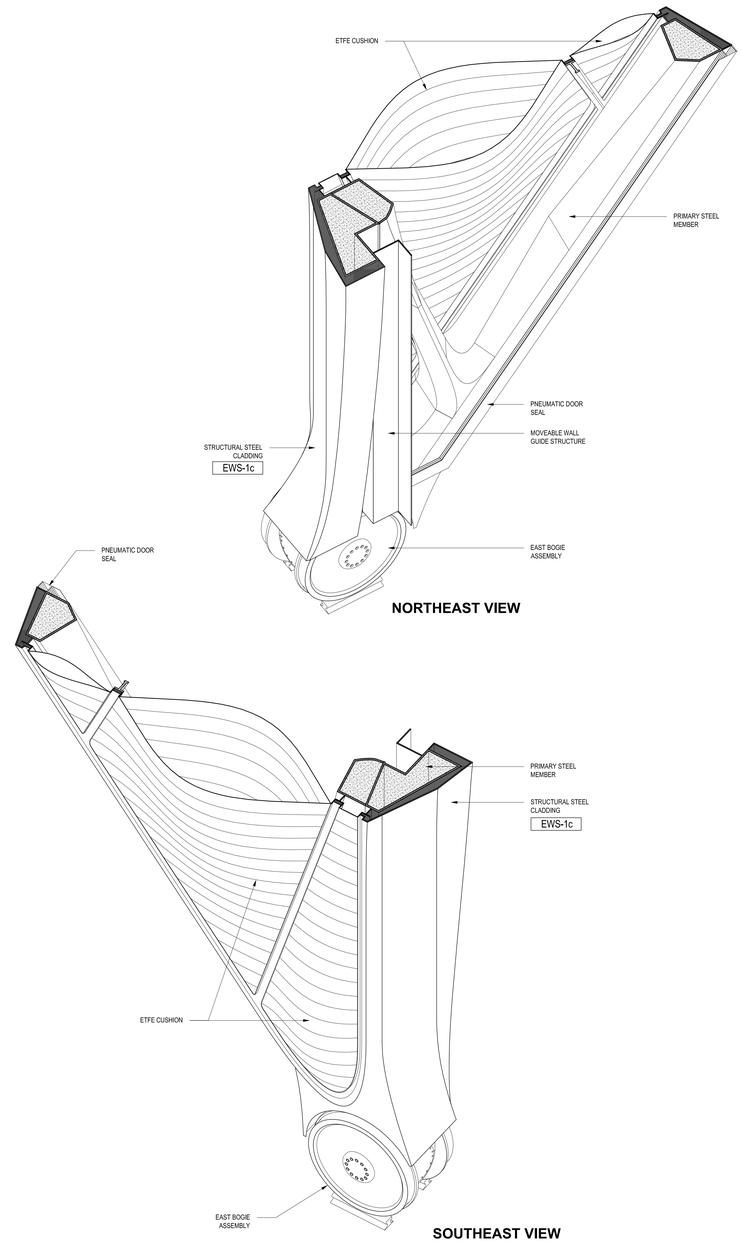
NTS



BOGIE HUB CAP

3

1" = 1'-0"



NORTHEAST VIEW

SOUTHEAST VIEW

EAST BOGIE AXONOMETRIC VIEWS

2

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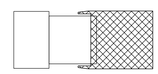

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1		ADV. PROCUREMENT BID SET	06.16.2014

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REGISTERED ARCHITECT RICARDO SCOFIDIO OF NEW YORK STATE

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CHECKED BY Checker

PROJECT NUMBER
11017

TITLE

TITLEBLOCK

East Bogie Axonometric Views

SCALE: NTS

0 8 16 24

DRAWING NO.

A-505.00

B-SCAN NO.

A-505.00

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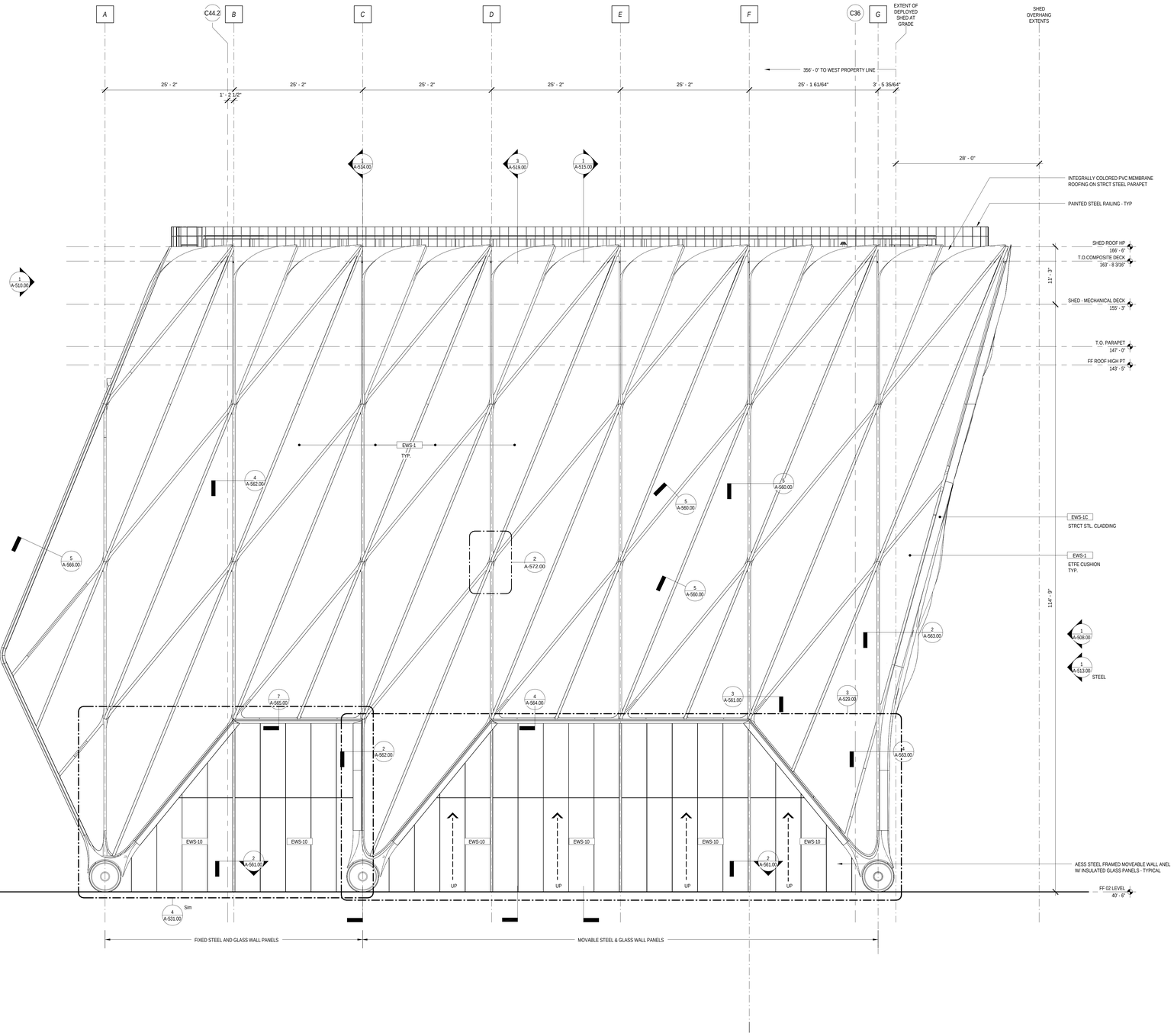

LEGEND

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4.
Typical Node Elsewhere:
The geometry created by the intersecting elements shall be in accordance with the 3D model. The level of quality is to be similar to the approved mock-up for the typical node. The general concept is that edges flow smoothly and continuously between the edge of one element to the corresponding edge of the adjacent element and the interlying surfaces between these edges are blended and contoured to define a smooth, uninterrupted transition.

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Drawing Title
Architectural Drawing
NYC Department of Buildings

BUILDING ELEVATION - SHED - SOUTH | 1 | 1/8" = 1'-0"

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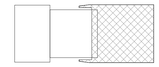

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1		ADV. PROCUREMENT BID SET	06.16.2014

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PROJECT NUMBER
11017

TITLE
EXTERIOR ELEVATION - SOUTH

SCALE: 1/8" = 1'-0"
0 8 16 24

DRAWING NO.
A-507.00

B-SCAN NO.
A-507.00

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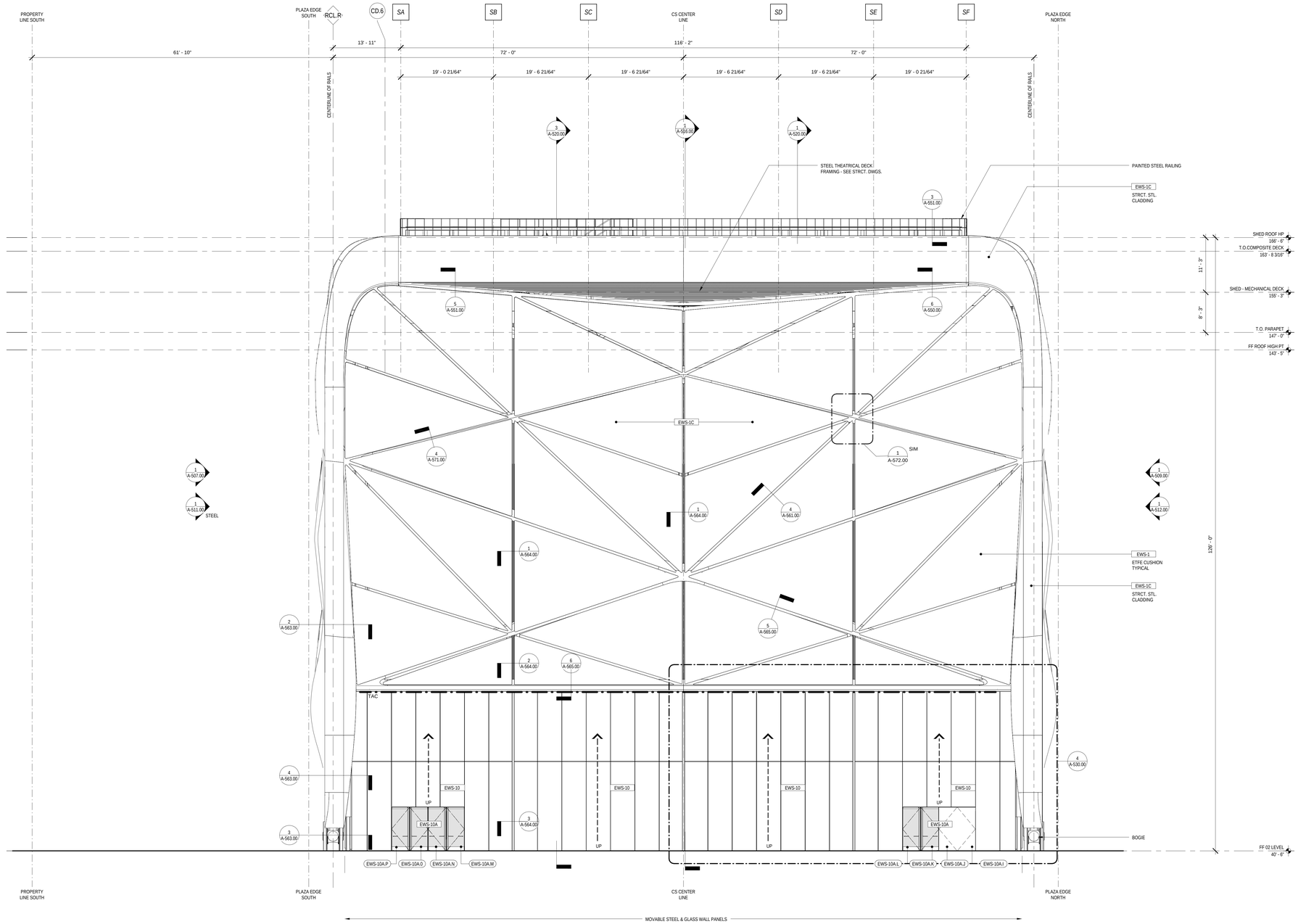

LEGEND

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Patricia Titus
Commissioner
NYC Department of Buildings

BUILDING ELEVATION - SHED - EAST | 1 | 1/8" = 1'-0"

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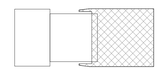

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PROJECT NUMBER 11017

TITLE
EXTERIOR ELEVATION - EAST

SCALE: 1/8" = 1'-0"
0 8 16 24

DRAWING NO.
A-508.00

B-SCAN NO.
A-508.00

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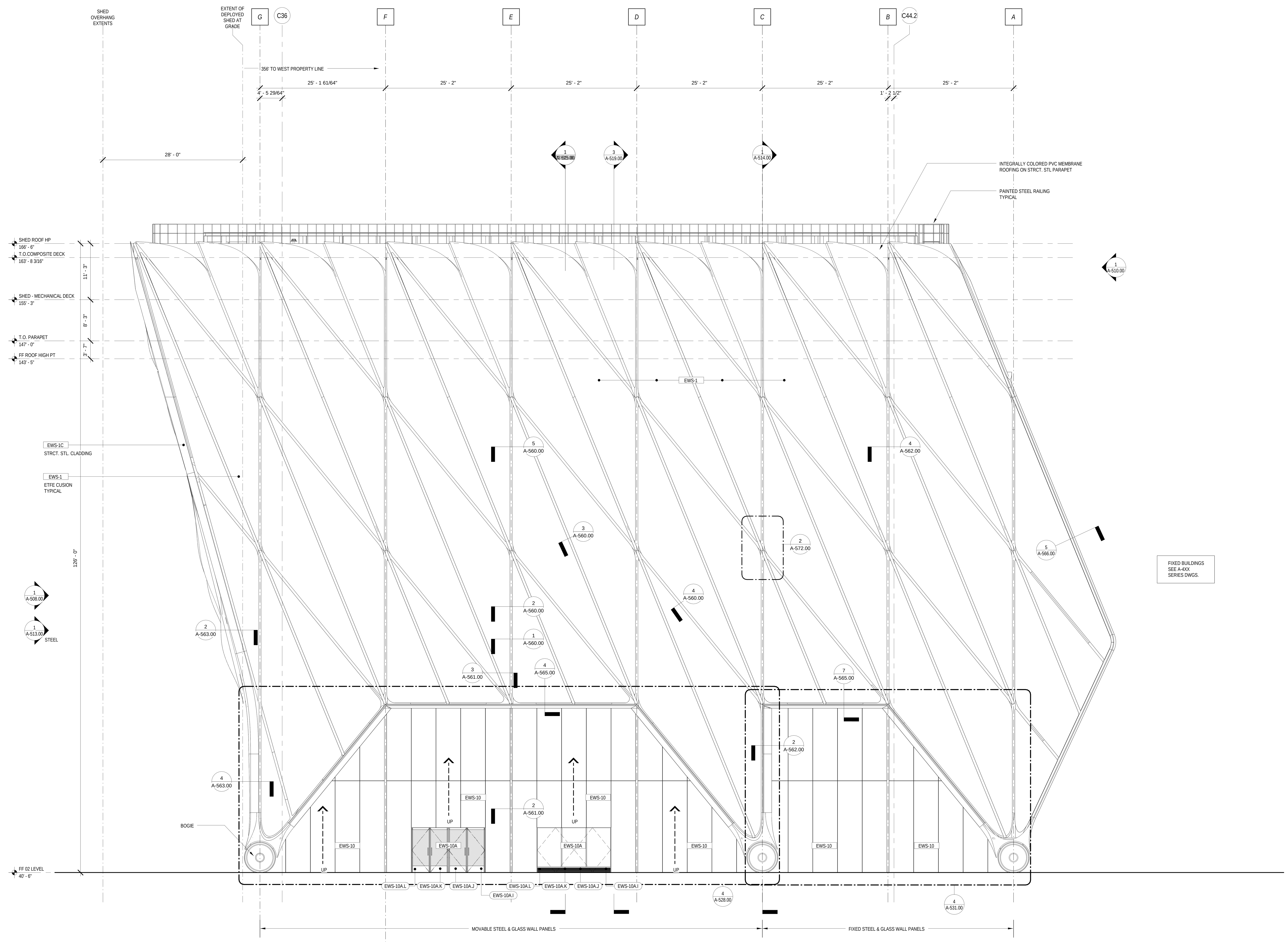

BUILDING ELEVATION - SHED - NORTH

1

1/8" = 1'-0"

LEGEND

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Damian Titus
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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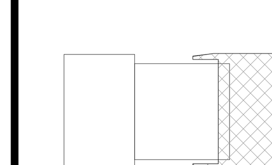

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REGISTERED ARCHITECT
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008800
STATE OF NEW YORK

DRAWN BY MM
CHECKED BY CB

PROJECT NUMBER
11017

TITLE
EXTERIOR ELEVATION - NORTH

SCALE: 1/8" = 1'-0"

0 8 16 24

DRAWING NO.
A-509.00

B-SCAN NO.

A-509.00

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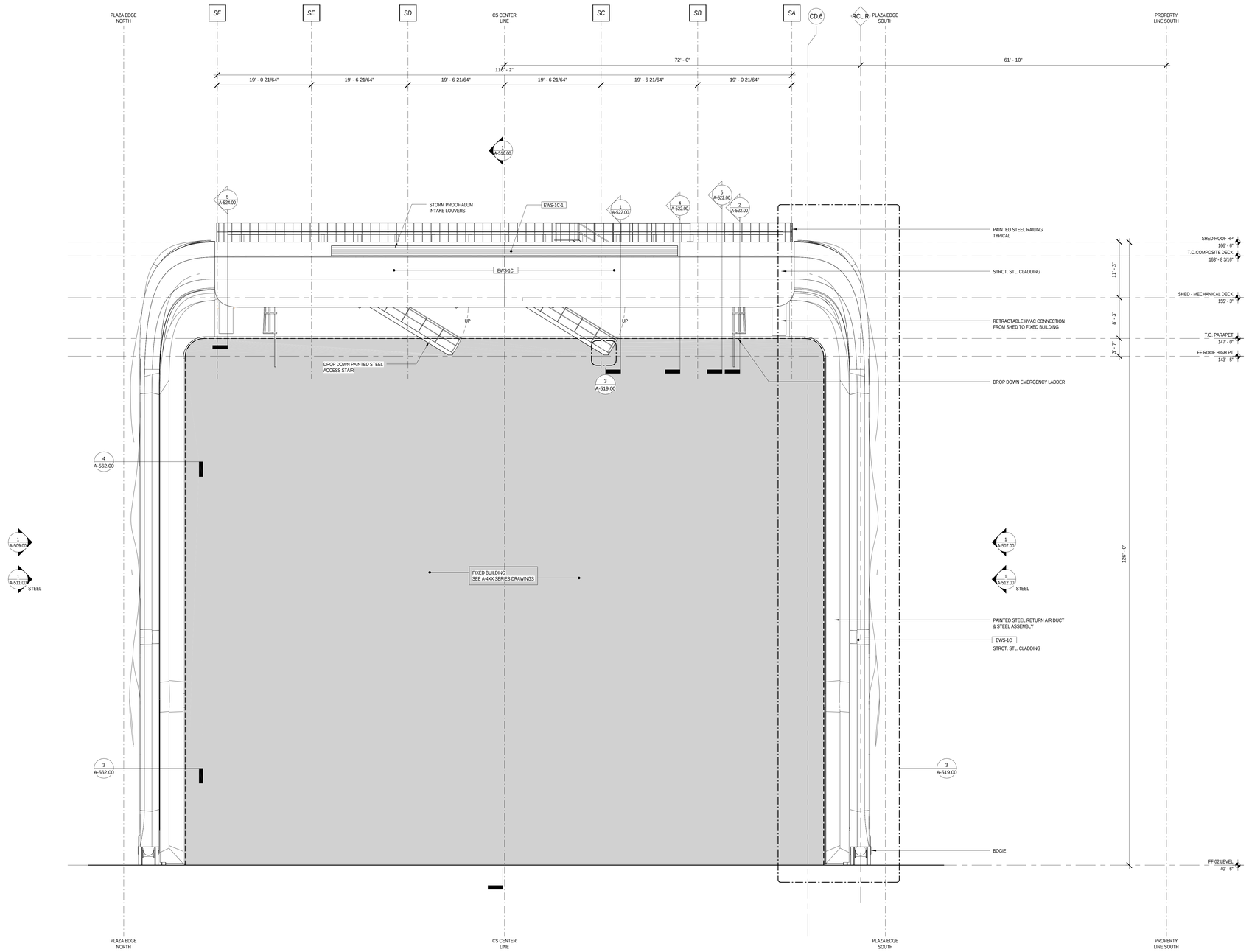

BUILDING ELEVATION - SHED - WEST

1/8" = 1'-0"

LEGEND

GENERAL NOTES

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4.
Typical Node Elsewhere:
The geometry created by the intersecting elements shall be in accordance with the 3D model. The level of quality is to be similar to the approved mock-up for the typical node. The general concept is that edges flow smoothly and continuously between the edge of one element to the corresponding edge of the adjacent element and the interlying surfaces between these edges are blended and contoured to define a smooth, uninterrupted transition.

5.
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Drawn by Title
Architect of Record
NYC Development Hub

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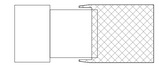

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2		50% CONSTRUCTION DOCUMENTS	08.15.2014
1		ADV. PROCUREMENT BID SET	06.16.2014

STAMP

REGISTERED ARCHITECT RICARDO SCOFIDIO STATE OF NEW YORK 026800

DRAWN BY MM
CHECKED BY CB

PROJECT NUMBER
11017

TITLE
EXTERIOR ELEVATION - WEST

SCALE: 1/8" = 1'-0"

0 8 16 24

DRAWING NO.
A-510.00

B-SCAN NO.
A-510.00

149 of 291

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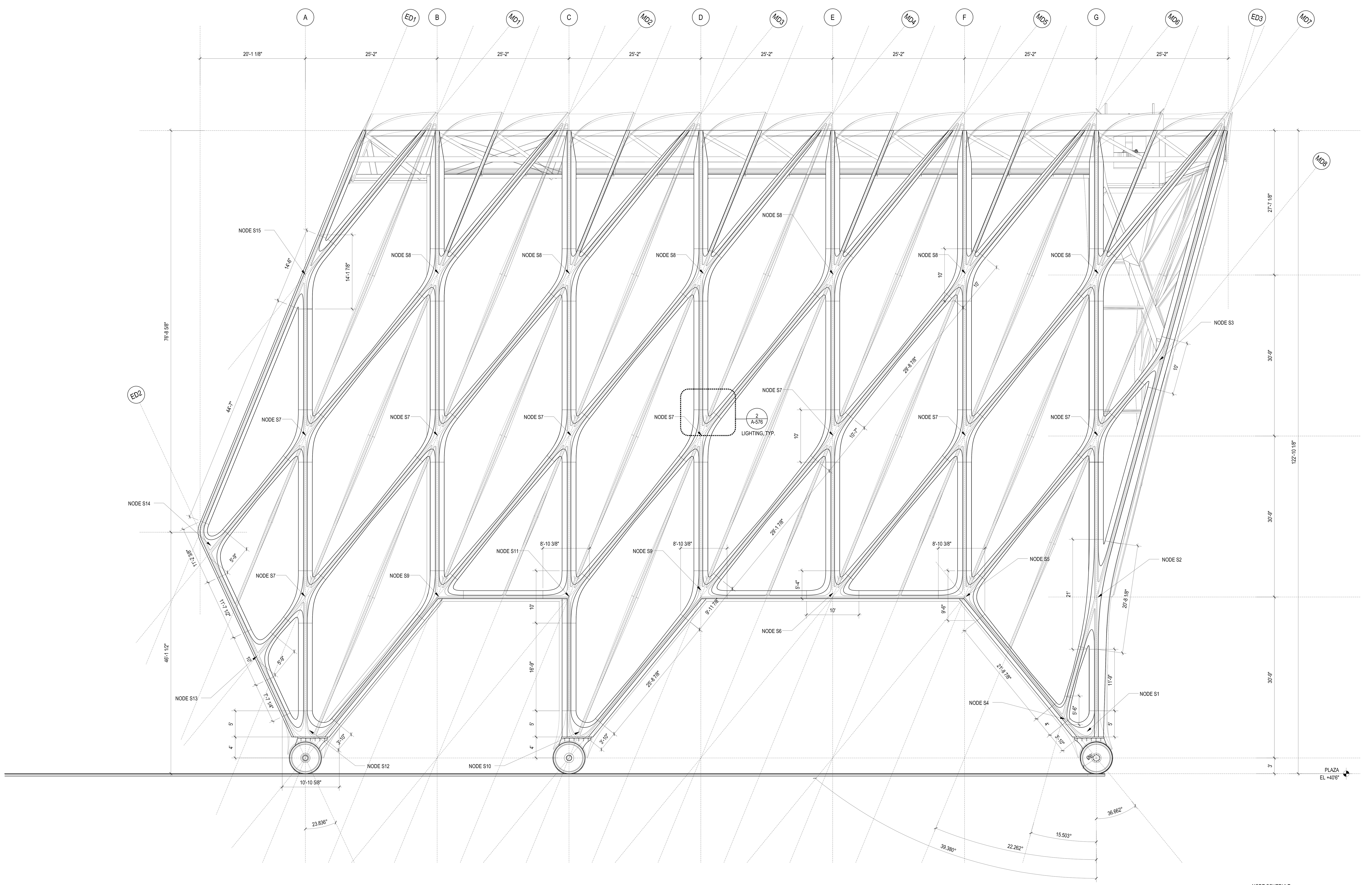
DEPT OF BLDGS 121192397 Job Number
E5526267618 Scan Code



NODE SCHEDULE

TYPE	QUANTITY
NODE S1	1
NODE S2	1
NODE S3	1
NODE S4	1
NODE S5	1
NODE S6	1
NODE S7	8
NODE S8	6
NODE S9	2
NODE S10	1
NODE S11	1
NODE S12	1
NODE S13	1
NODE S14	1
NODE S15	1
TOTAL	28

REFER TO STRUCTURAL DRAWINGS FOR PLATE THICKNESS AND MEMBER SIZING

SHED ELEVATION - SOUTH STEEL | 1 | 1/8" = 1'-0"

LEGEND

GENERAL NOTES

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Damian Titus
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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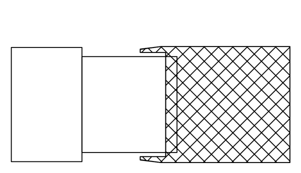

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1		ADV. PROCUREMENT BID SET	06.16.2014

STAMP

REGISTERED ARCHITECT
RICARDO SCOFIDIO
008800
STATE OF NEW YORK

DRAWN BY Author
CHECKED BY Checker

PROJECT NUMBER
11017

TITLE
TITLEBLOCK
Elevation Shed Steel South

SCALE: 1/8" = 1'-0"

0 8 16 24

DRAWING NO.
A-511.00

B-SCAN NO.
A-511.00

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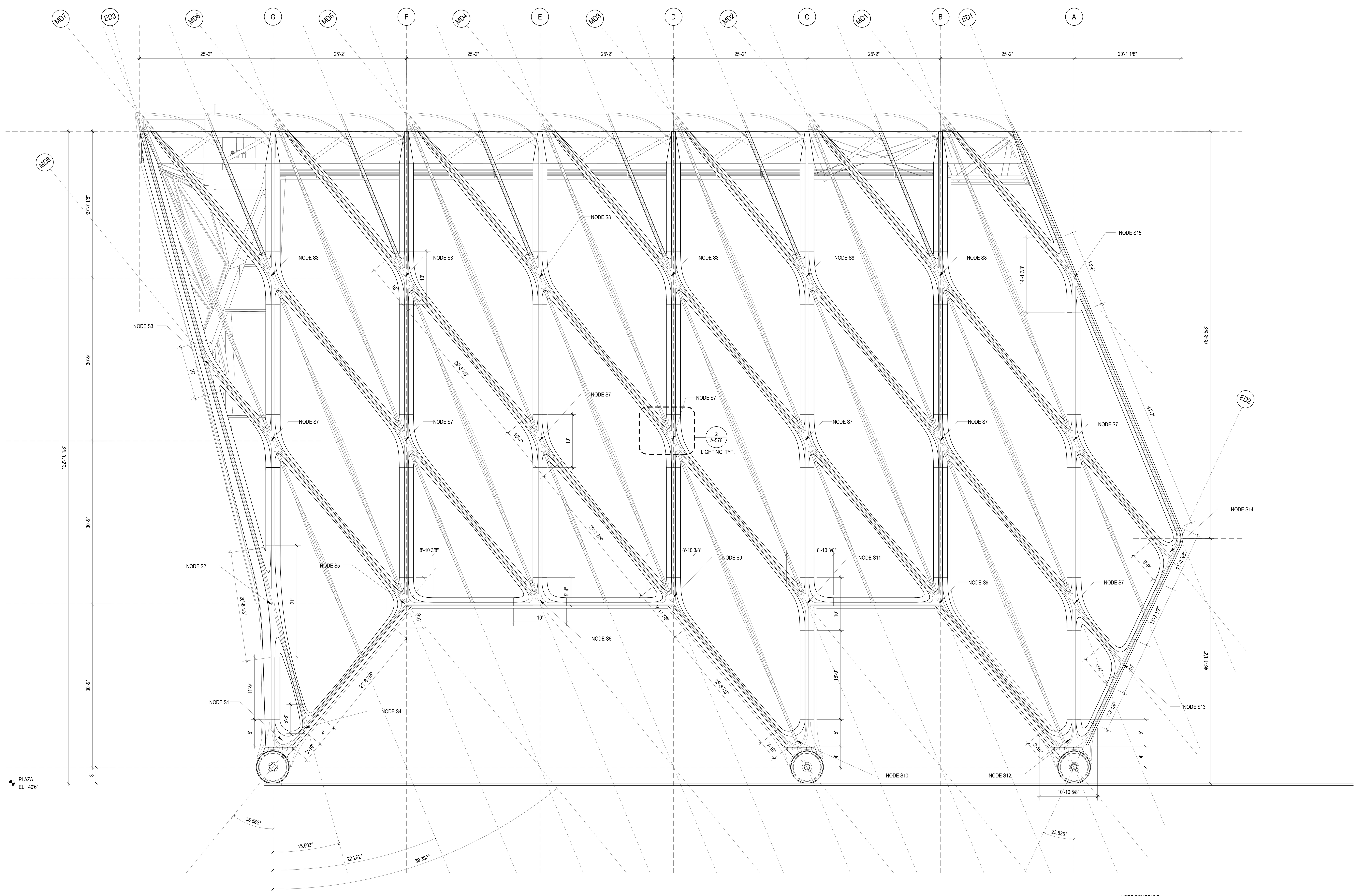

NODE SCHEDULE

TYPE	QUANTITY
NODE N1	1
NODE N2	1
NODE N3	1
NODE N4	1
NODE N5	1
NODE N6	1
NODE N7	8
NODE N8	6
NODE N9	2
NODE N10	1
NODE N11	1
NODE N12	1
NODE N13	1
NODE N14	1
NODE N15	1
TOTAL	28

REFER TO STRUCTURAL DRAWINGS FOR PLATE THICKNESS AND MEMBER SIZING

SHED ELEVATION - NORTH STEEL 1

1/8" = 1'-0"

LEGEND

GENERAL NOTES

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NYC Buildings APPROVED Under Directive 2 of 1975 AMENDED APPLICATION NYC Development Hub

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DRAWN BY Author
CHECKED BY Checker

PROJECT NUMBER
11017

TITLE
TITLEBLOCK
Elevation Shed Steel North

SCALE: 1/8" = 1'-0"

0 8 16 24

DRAWING NO.
A-512.00

B-SCAN NO.
A-512.00

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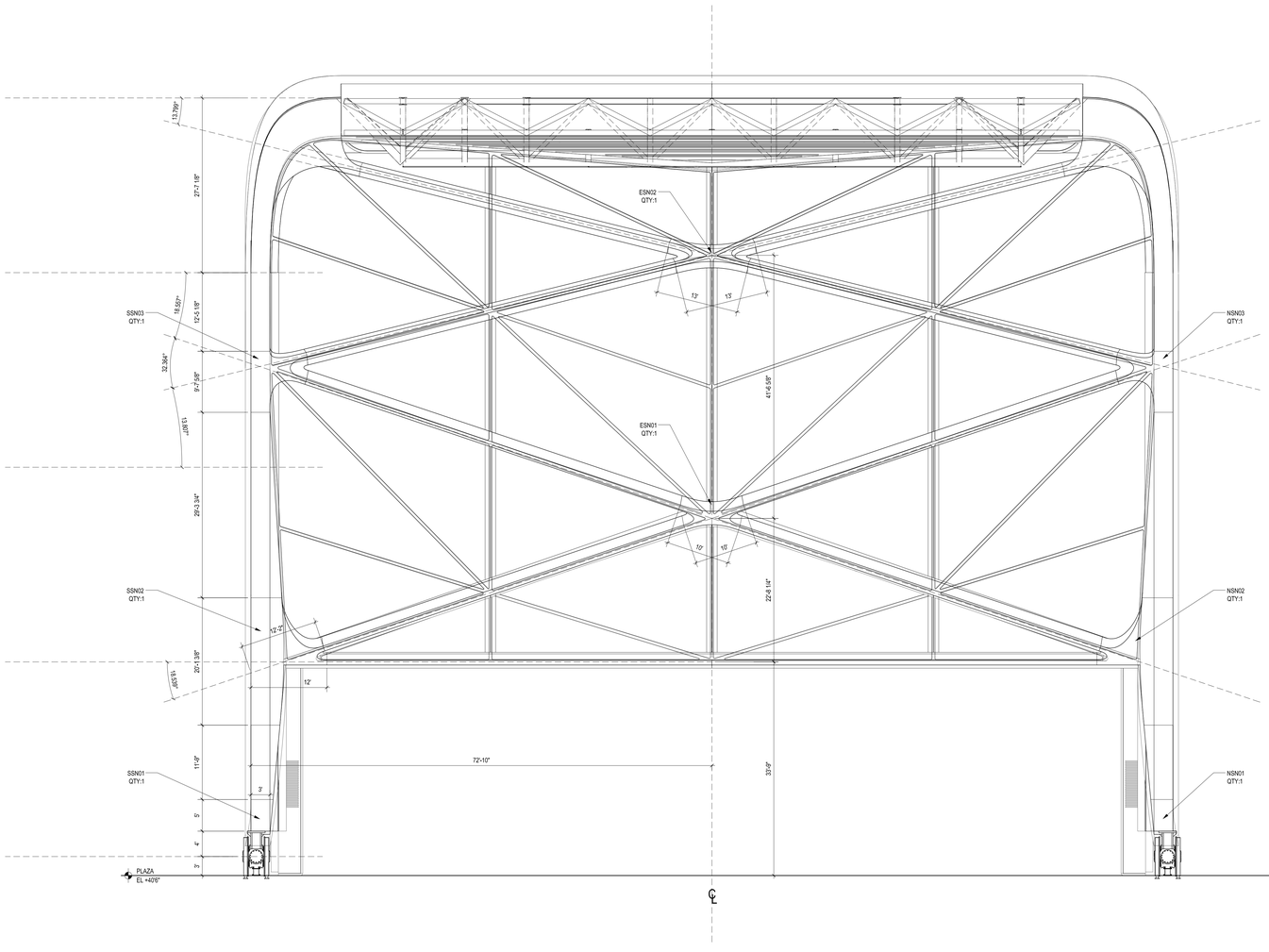

NODE SCHEDULE

TYPE	QUANTITY
NODE E1	1
NODE E2	1
TOTAL	2

REFER TO STRUCTURAL DRAWINGS FOR PLATE THICKNESS AND MEMBER SIZING

LEGEND

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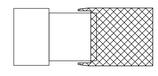
KEY PLAN



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2		50% CONSTRUCTION DOCUMENTS	08.15.2014
1		ADV. PROCUREMENT BID SET	06.16.2014

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DRAWN BY Author
CHECKED BY Checker

PROJECT NUMBER
11017

TITLE

TITLEBLOCK

Elevation Shed Steel East

SCALE: 1/8" = 1'-0"

0 8 16 24

DRAWING NO.

A-513.00

B-SCAN NO.

A-513.00

APPROVED
NYC Department of Buildings
Plan Examiner Hub

SHED ELEVATION - EAST STEEL | 1 | 1/8" = 1'-0"

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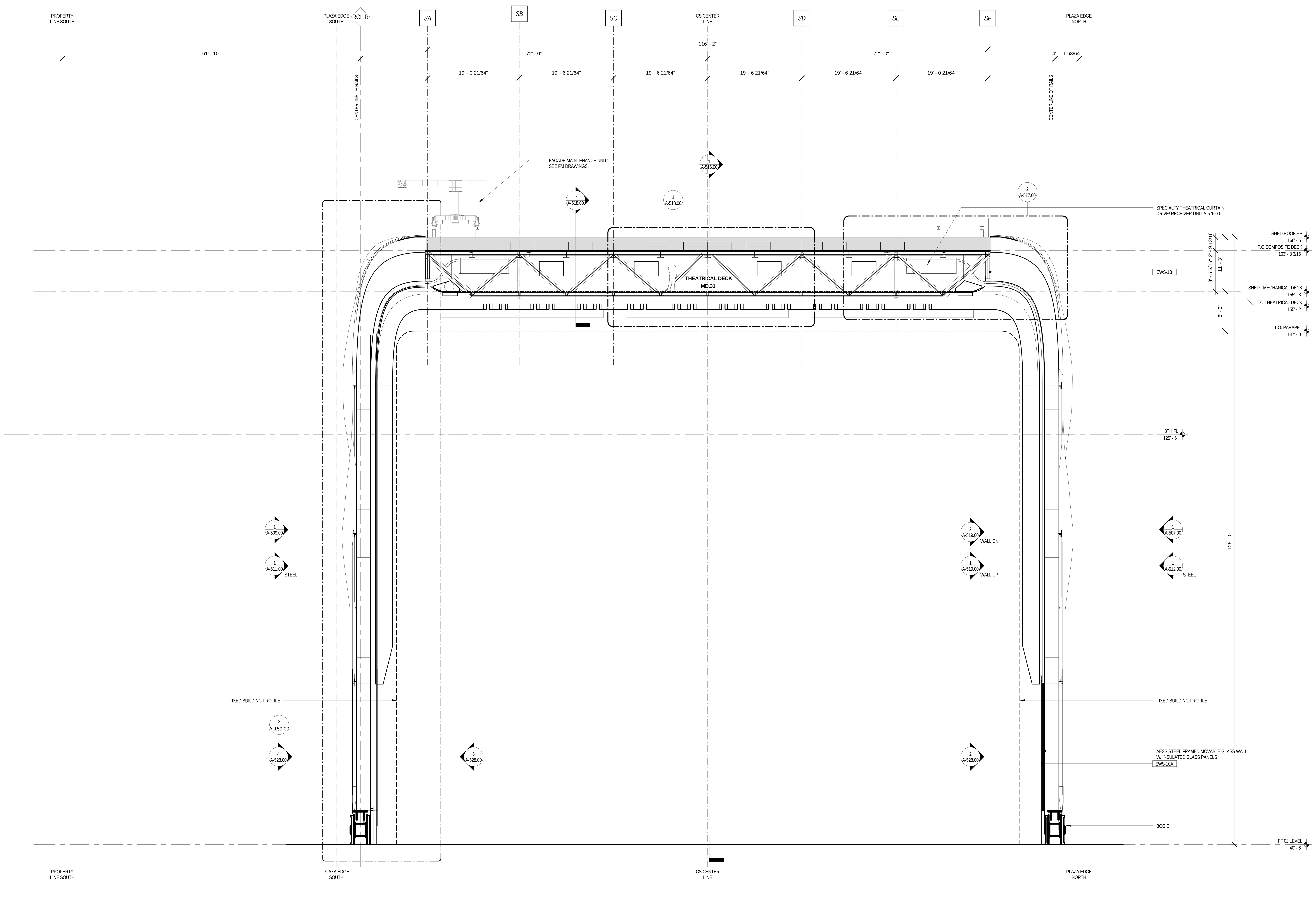
ES405952129 Scan Code



BUILDING SECTION - N/S - 05 - SHED 1

1/8" = 1'-0"

LEGEND

GENERAL NOTES

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4.
Typical Node Elsewhere:
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Damian Titus
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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KEY PLAN

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1		ADV. PROCUREMENT BID SET	06.16.2014

STAMP
REGISTERED ARCHITECT
RICARDO SCOFIDIO
STATE OF NEW YORK
008800

DRAWN BY MM
CHECKED BY CB

PROJECT NUMBER
11017

TITLE
BUILDING SECTION SHED
NORTH/SOUTH

SCALE: 1/8" = 1'-0"
0 8 16 24

DRAWING NO.
A-514.00

B-SCAN NO.
A-514.00

153 of 291

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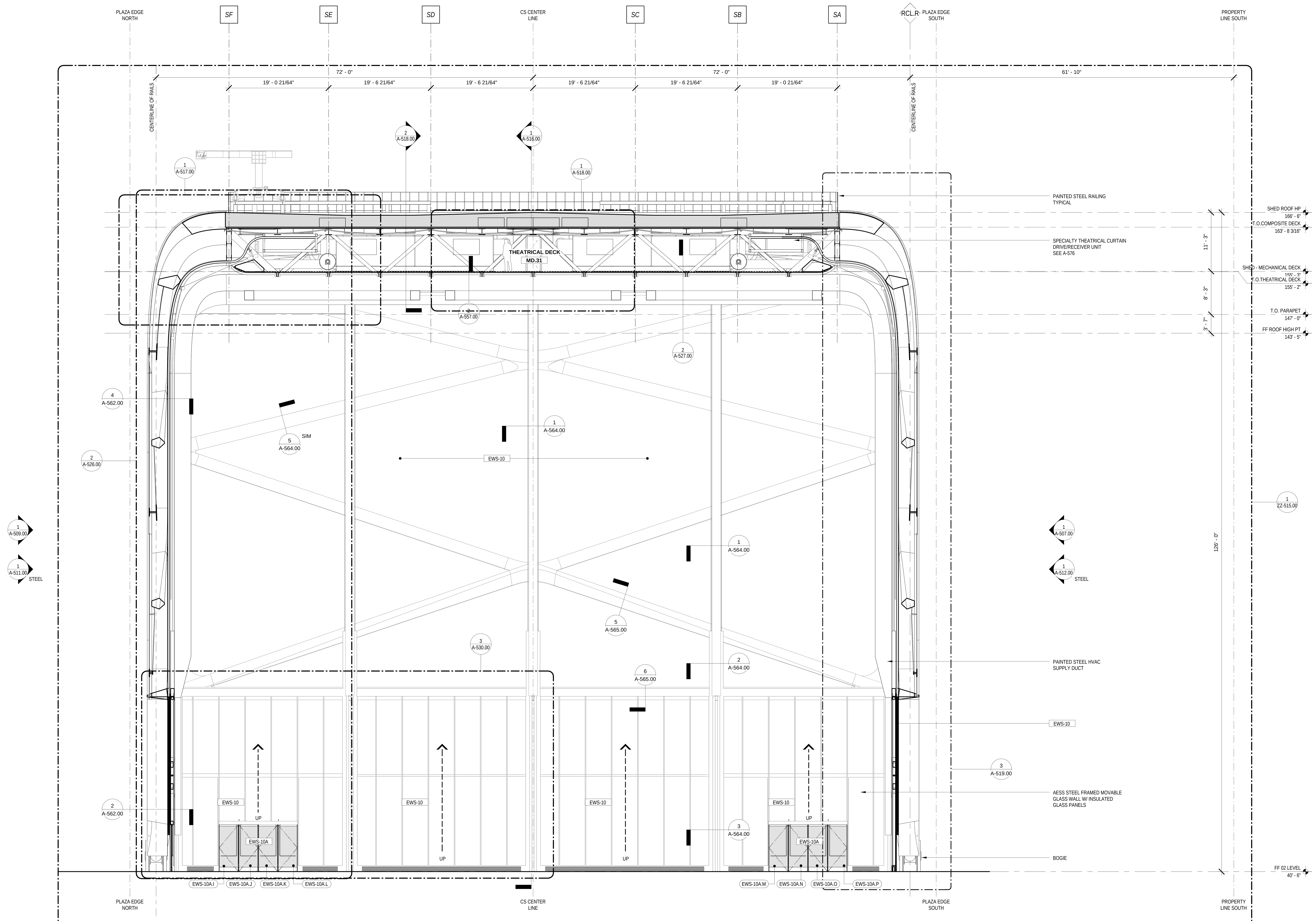

BUILDING SECTION - N/S - 06 - SHED

1

1/8" = 1'-0"

LEGEND

GENERAL NOTES

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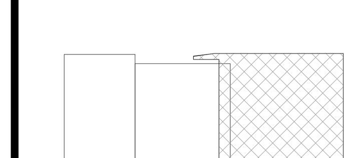

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REGISTERED ARCHITECT
RICARDO SCOFIDIO
008800
STATE OF NEW YORK

DRAWN BY
MM

CHECKED BY
CB

PROJECT NUMBER
11017

TITLE
BUILDING SECTION SHED
NORTH/SOUTH

SCALE: 1/8" = 1'-0"

0 8 16 24

DRAWING NO.
A-515.00

B-SCAN NO.
A-515.00

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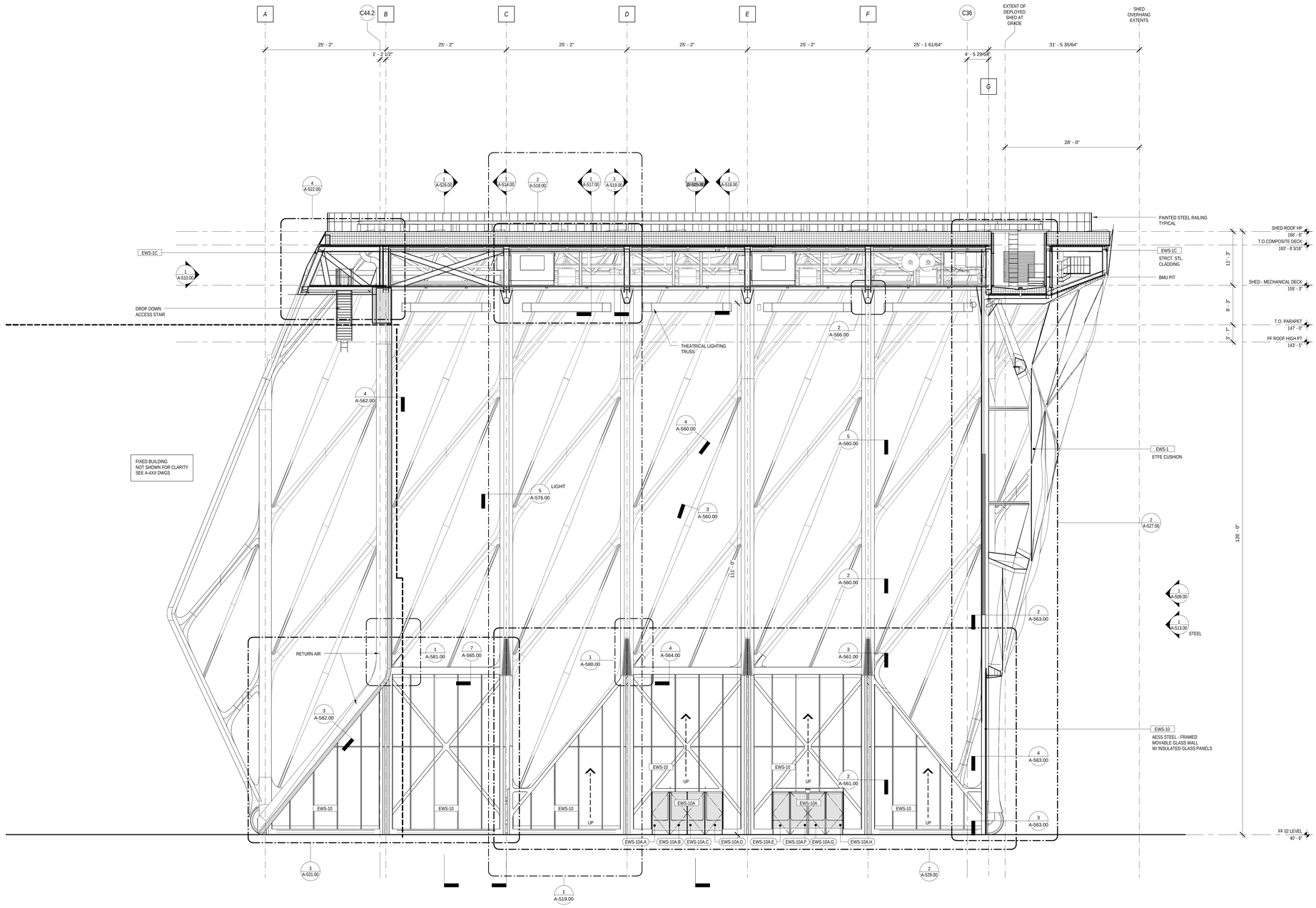

BUILDING SECTION - E/W

1
1/8" = 1'-0"

LEGEND

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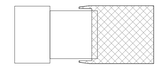

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REGISTERED ARCHITECT RICARDO SCOFIDIO 008600 STATE OF NEW YORK

DRAWN BY MM
CHECKED BY CB

PROJECT NUMBER
11017

TITLE
BUILDING SECTION - EAST / WEST

SCALE: 1/8" = 1'-0"

0 8 16 24

DRAWING NO.
A-516.00

B-SCAN NO.
A-516.00

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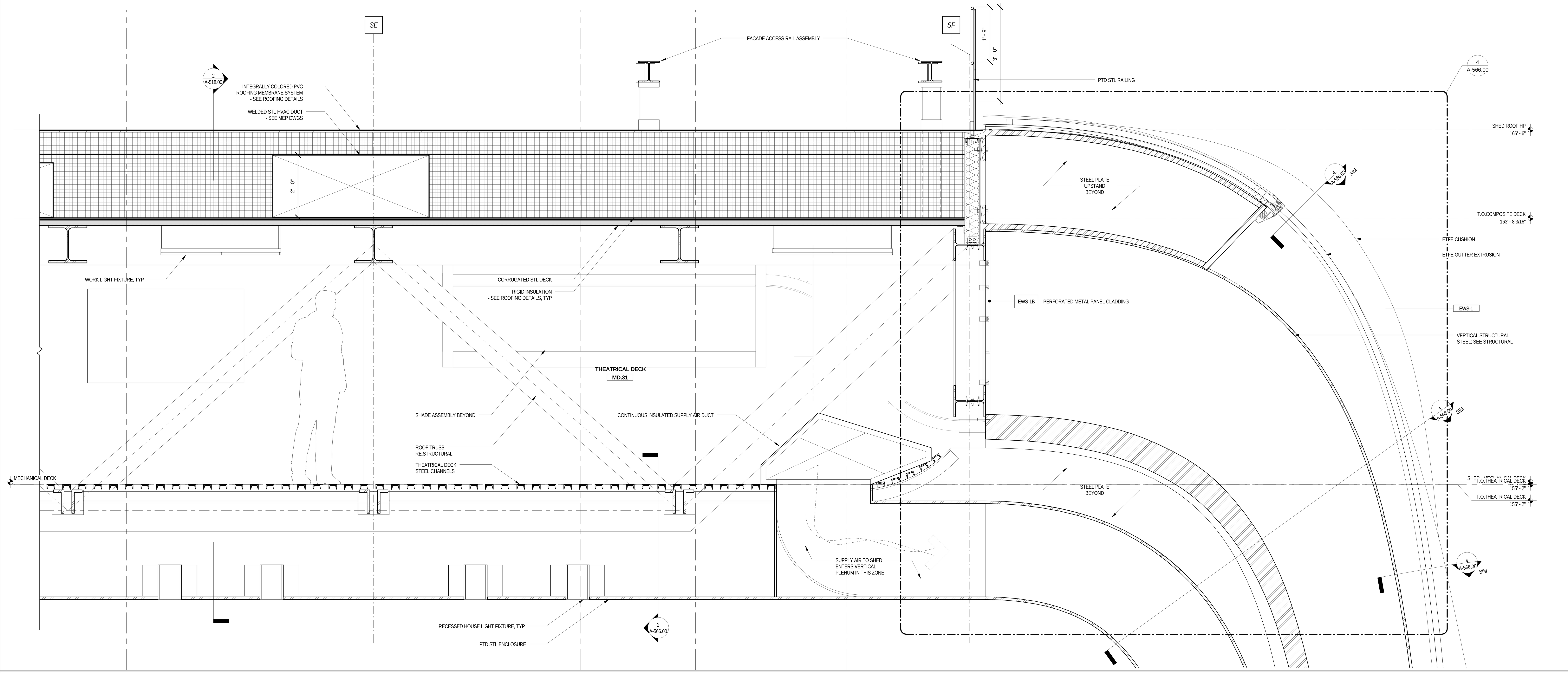
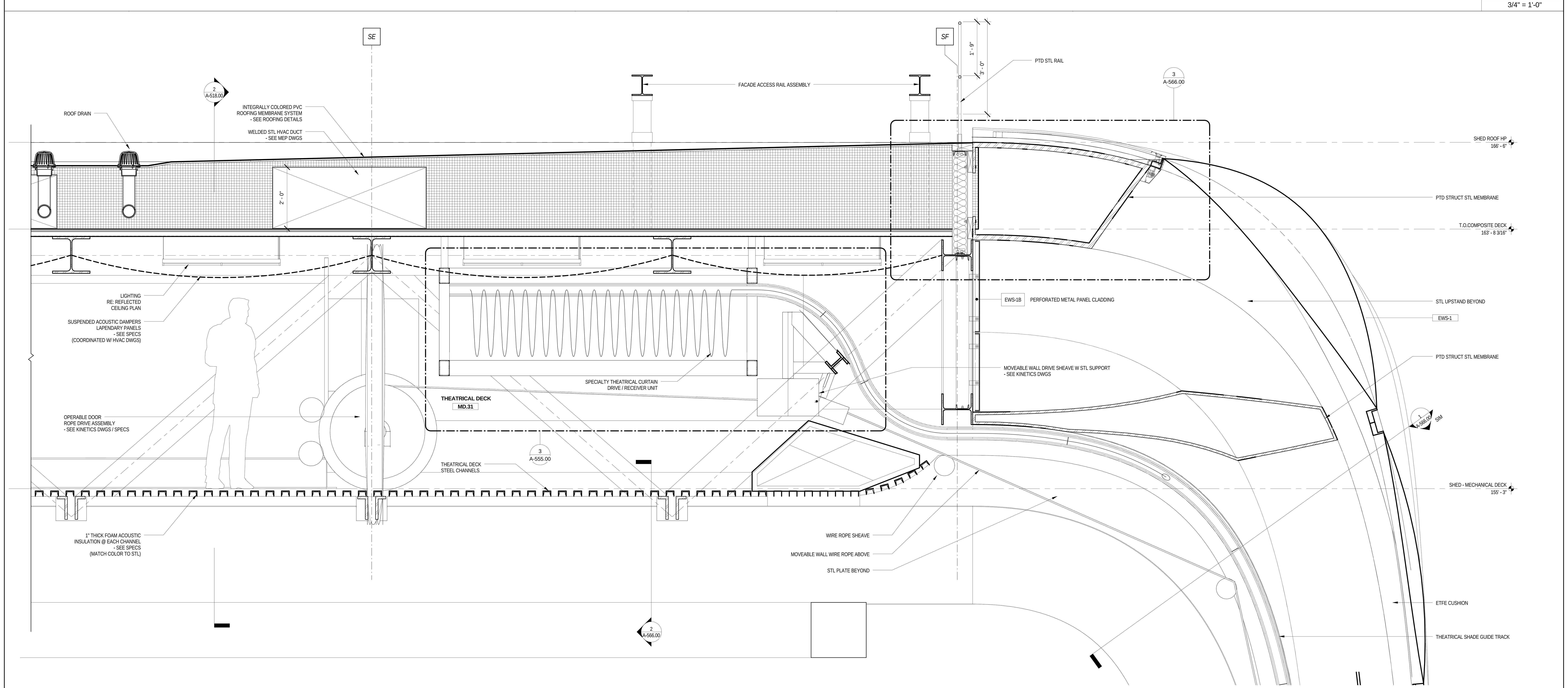


PARTIAL SECTION - SHED - N/S - ROOF EDGE - DUCT

2

3/4" = 1'-0"



PARTIAL SECTION - SHED - N/S - ROOF EDGE

1

3/4" = 1'-0"

LEGEND

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APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

ES957723454 Scan Code

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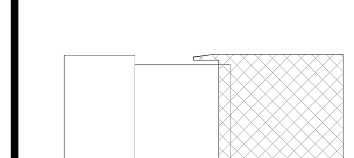
KEY PLAN



ISSUE		PRINTING	DATE
44	33	DOB AMENDMENT 5	04.08.2016
13		DOB AMENDMENT 1	08.03.2015
12	6	ADDENDUM 1	07.22.2015
10	4	100% CONSTRUCTION DOCUMENTS	03.18.2015
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2		50% CONSTRUCTION DOCUMENTS	08.15.2014
1		ADV. PROCUREMENT BID SET	06.16.2014

STAMP

REGISTERED ARCHITECT
RICARDO SCOFIDIO
008800
STATE OF NEW YORK

DRAWN BY MM
CHECKED BY CB

PROJECT NUMBER
11017

TITLE
WALL SECTION @ ROOF EDGE

SCALE: 3/4" = 1'-0"
0 8 16 24

DRAWING NO.
A-517.00

B-SCAN NO.
A-517.00

156 of 291

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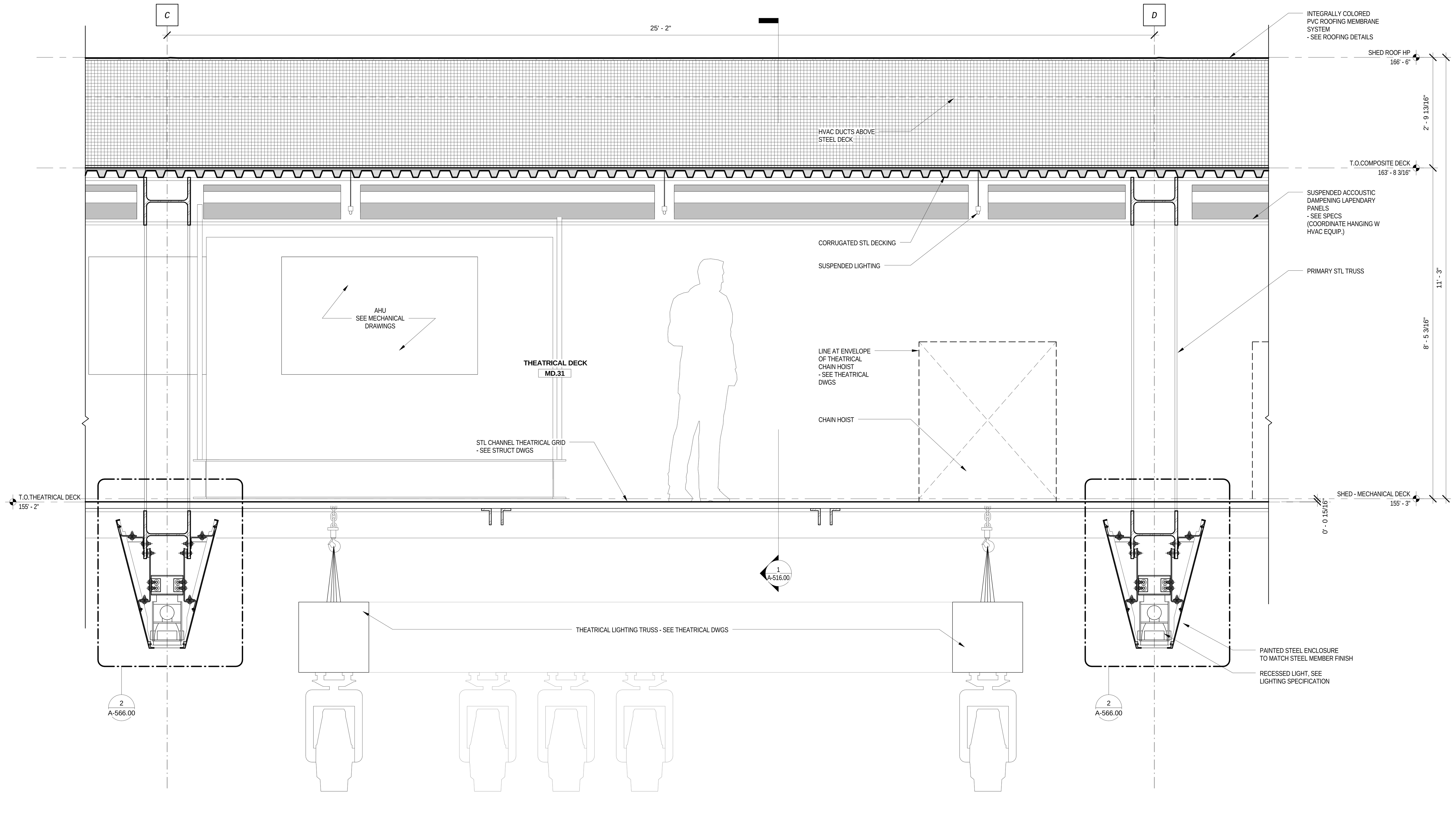
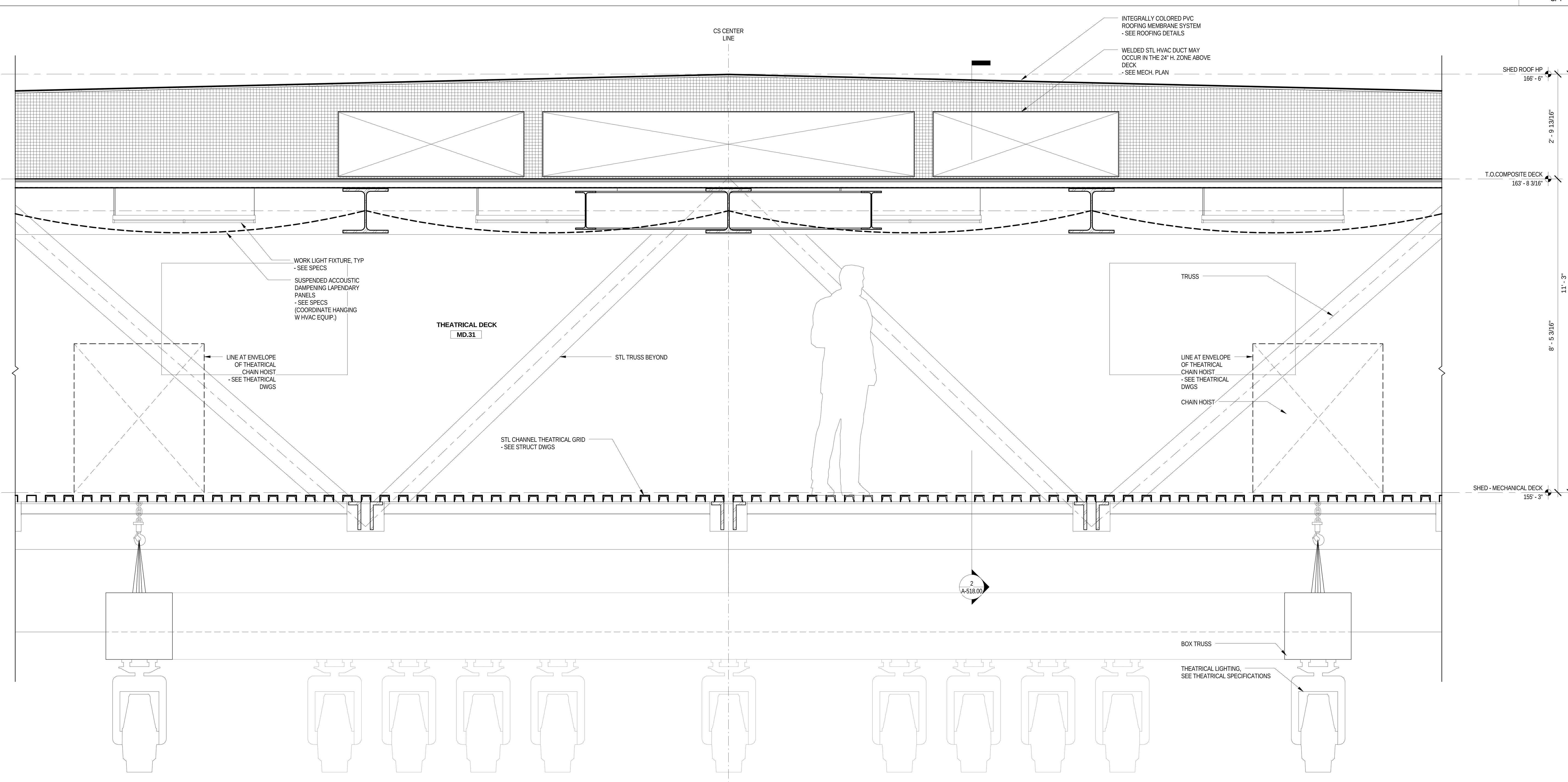
ES495257148 Scan Code



PARTIAL SECTION - SHED - E/W - TYPICAL | 2 | 3/4" = 1'-0"



PARITAL SECTION - SHED - N/S - TYPICAL | 1 | 3/4" = 1'-0"

LEGEND

GENERAL NOTES

1.
For Shed components this drawing set is to be considered integral with the provided 3D models and may not be considered independently from the models. The contractor is to base their bid upon the information provided in both the drawings and 3D models. In matters of form and geometry the three dimensional model takes precedence in the instance of a discrepancy between drawing and model. In all other matters the contractor shall seek the opinion of the Architect and Structural Engineer to resolve the discrepancy.

2.
Geometry, dimensions and surface contouring, blending and intersection of sections illustrated in the structural drawings are provided for reference and generation of the structural arrangement and details only. The 3D model issued by the Architect defines the exterior surface and shall be adhered to for the final geometry. It is the responsibility of the Contractor to identify any discrepancies or ambiguities for discussion, resolution and direction from the Architect and Structural Engineer.

3.
Typical N/S wall node:
The geometry created by the intersecting main verticals and diagonals shall be in accordance with the 3D model and follow, as a minimum, the quality exhibited in the approved mock-up. The general concept is that edges flow smoothly and continuously between the straight edge of a diagonal through a curve to the adjacent edge of the vertical and the interlying surfaces between these edges are blended and contoured to define a smooth, uninterrupted transition.

4.
Typical Node Elsewhere:
The geometry created by the intersecting elements shall be in accordance with the 3D model. The level of quality is to be similar to the approved mock-up for the typical node. The general concept is that edges flow smoothly and continuously between the edge of one element to the corresponding edge of the adjacent element and the interlying surfaces between these edges are blended and contoured to define a smooth, uninterrupted transition.

5.
This drawing should be considered integral with the written Specifications issued along with the drawings and 3D models. Refer to the Advanced procurement Bid Issue Specifications Table of Contents.

6.
Structural steel cladding enclosing selected areas of the Shed (referred to as EWS-1c) shall be in the scope of the steel contractor for continuity with adjacent primary steel members. Criteria for tolerance and flatness to match that of the structural steel (see structural drawings & specifications). Plate configuration, including thickness, internal stiffeners and diaphragms, to be proposed by the fabricator and subject to agreement with the Architect and Engineer to provide an enclosure which satisfies the aesthetic and structural requirements. Refer to 3D model for extent of EWS-1c.

7.
Visually exposed HVAC supply and return ducts in the Shed, shown herein, are to be in the scope of the steel contractor to ensure continuity of appearance with primary steel. Criteria for tolerance and flatness to match that of the structural steel (see structural drawings & specifications). Plate configuration, including thickness, internal stiffeners and diaphragms, to be proposed by the fabricator and subject to agreement with the Architect and Engineer to provide an enclosure which satisfies the aesthetic and structural requirements. The mechanical ductwork carries its own self weight and is not a primary load-bearing element. Internal stiffening may not create interference with airflow requirements of the duct. Refer to 3D model.

Damian Titus
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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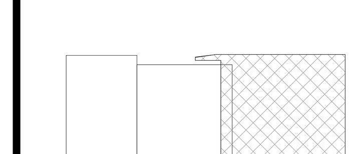

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REGISTERED ARCHITECT
RICARDO SCOFIDIO
008800
STATE OF NEW YORK

DRAWN BY
MM

CHECKED BY
CB

PROJECT NUMBER
11017

TITLE
WALL SECTION @ THEATRICAL DECK

SCALE: 3/4" = 1'-0"

0 8 16 24

DRAWING NO.
A-518.00

B-SCAN NO.
A-518.00

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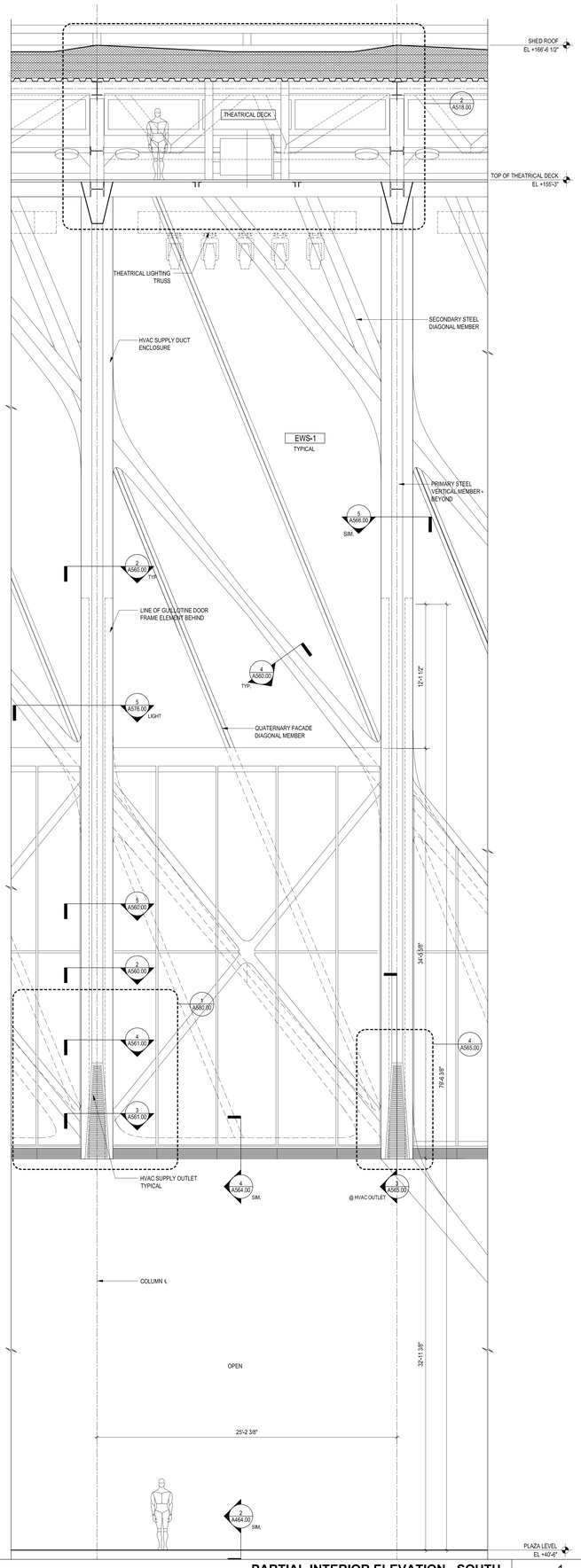
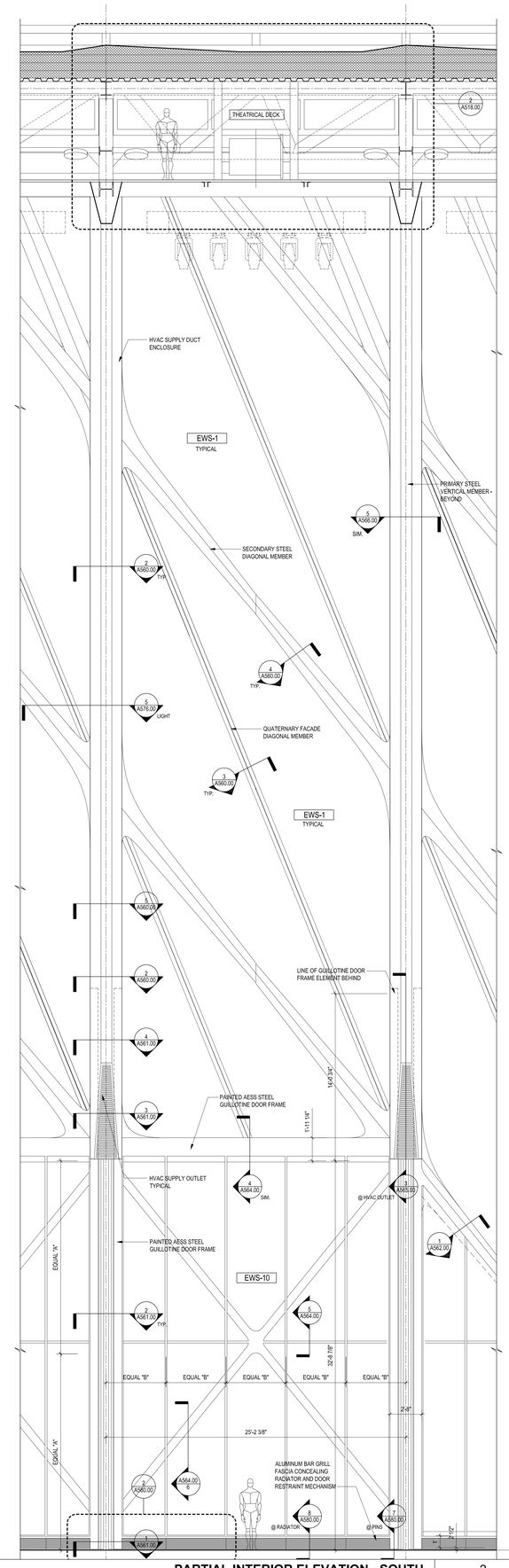


PARTIAL INTERIOR ELEVATION - SOUTH OPERABLE WALL UP

1

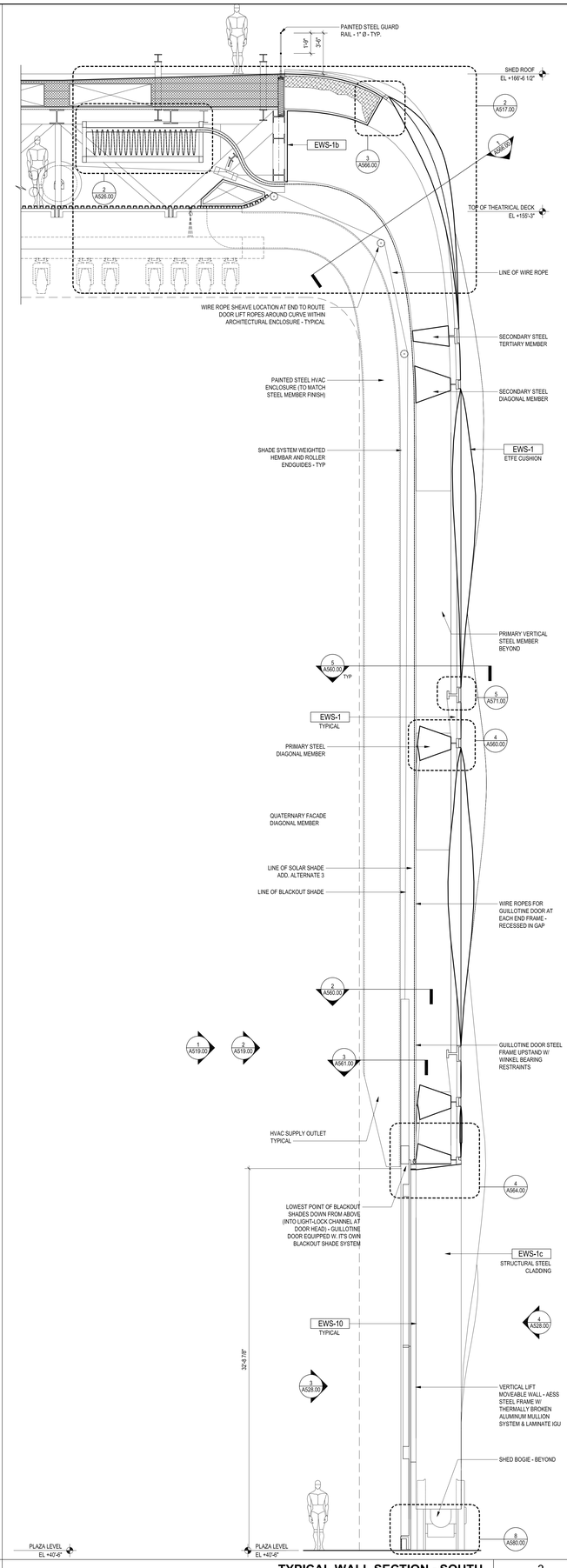
1/4" = 1'-0"



PARTIAL INTERIOR ELEVATION - SOUTH OPERABLE WALL DOWN

2

1/4" = 1'-0"



TYPICAL WALL SECTION - SOUTH

3

1/4" = 1'-0"

LEGEND

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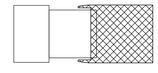

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REGISTERED ARCHITECT RICARDO SCOFIDIO 008600 STATE OF NEW YORK

DRAWN BY Author
CHECKED BY Checker

PROJECT NUMBER
11017

TITLE

TITLEBLOCK
Shed - Typical Wall Section & Elevations

SCALE: 1/4" = 1'-0"

0 8 16 24

DRAWING NO.

A-519.00

B-SCAN NO.

A-519.00

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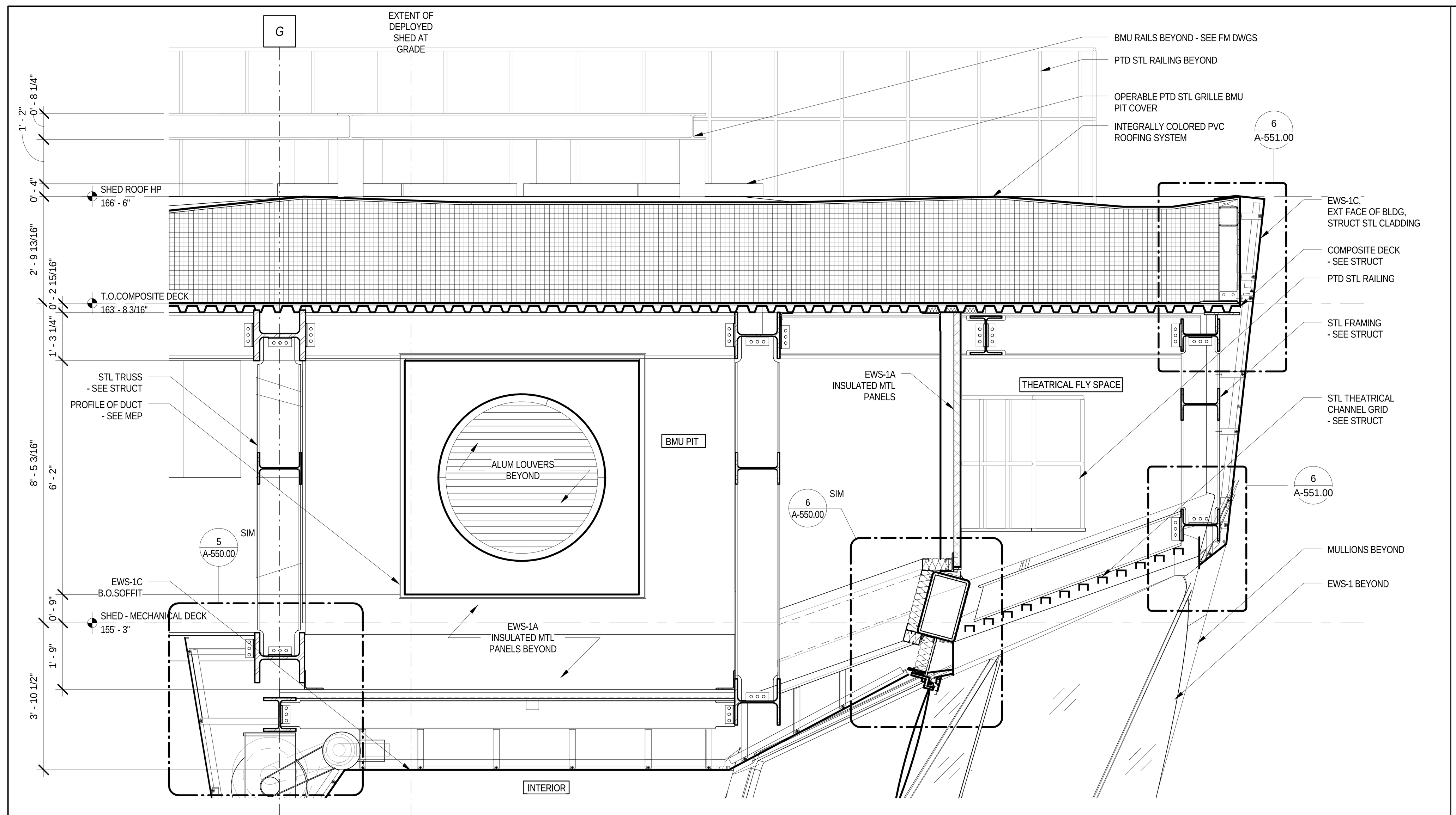
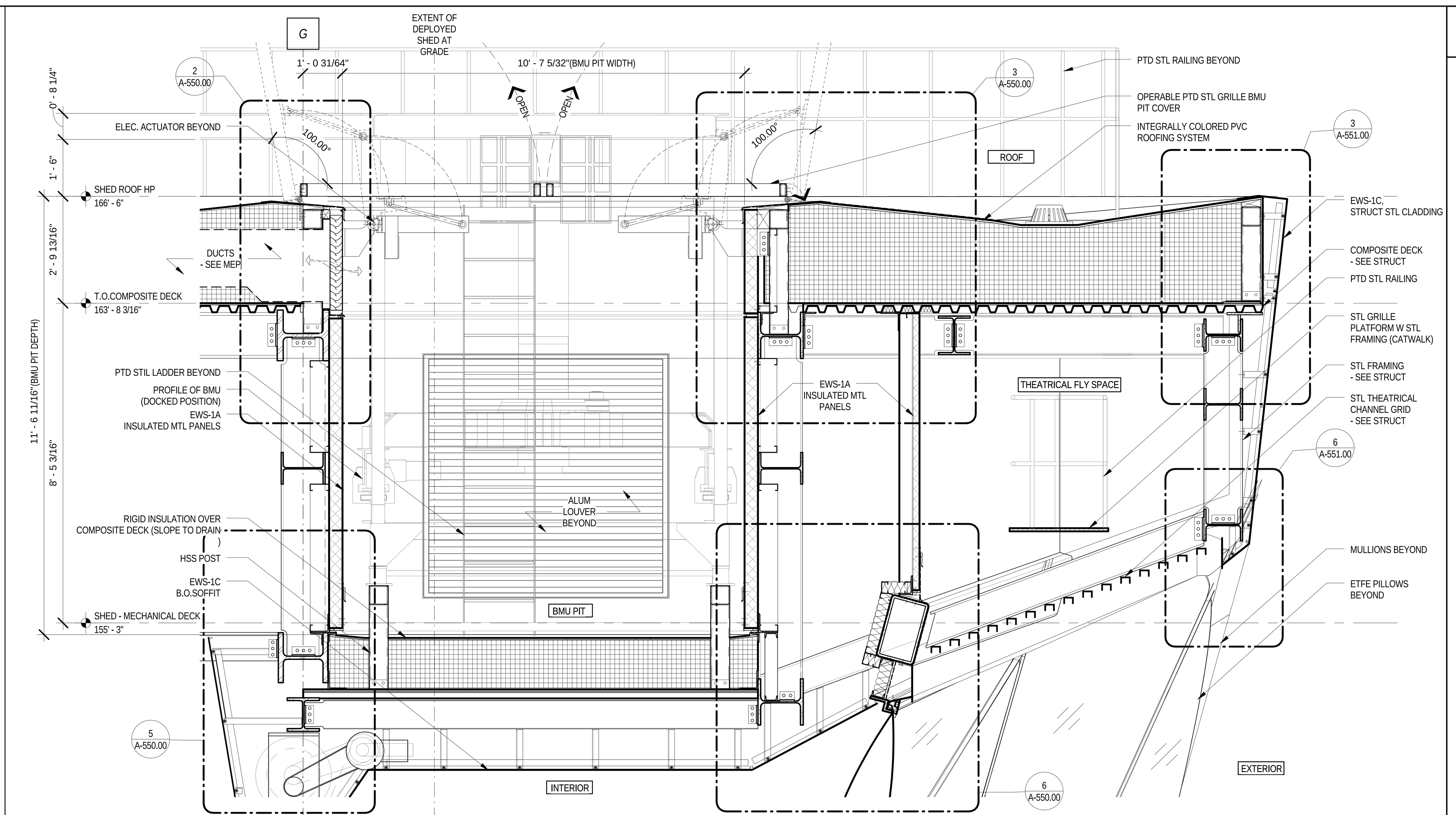
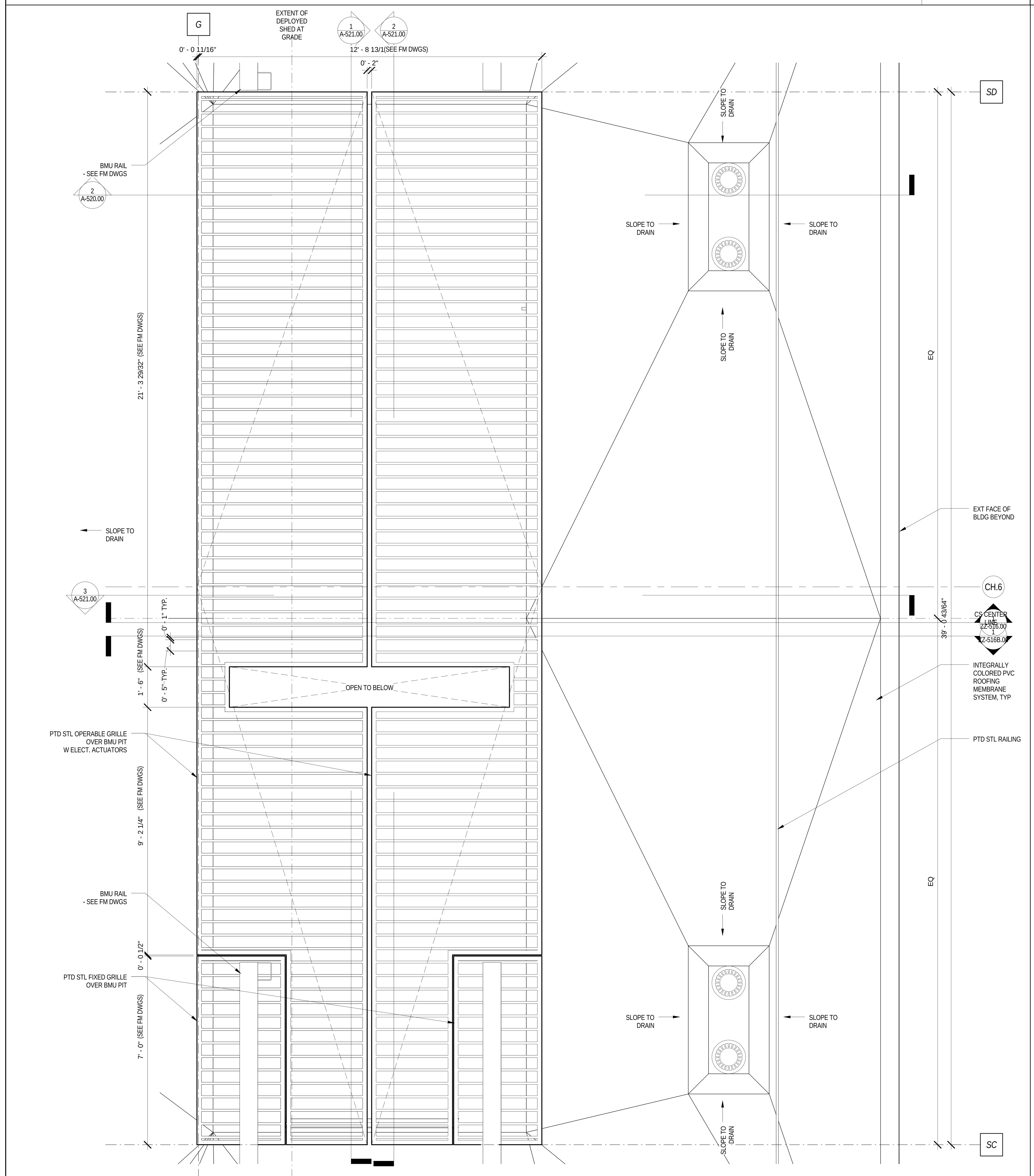


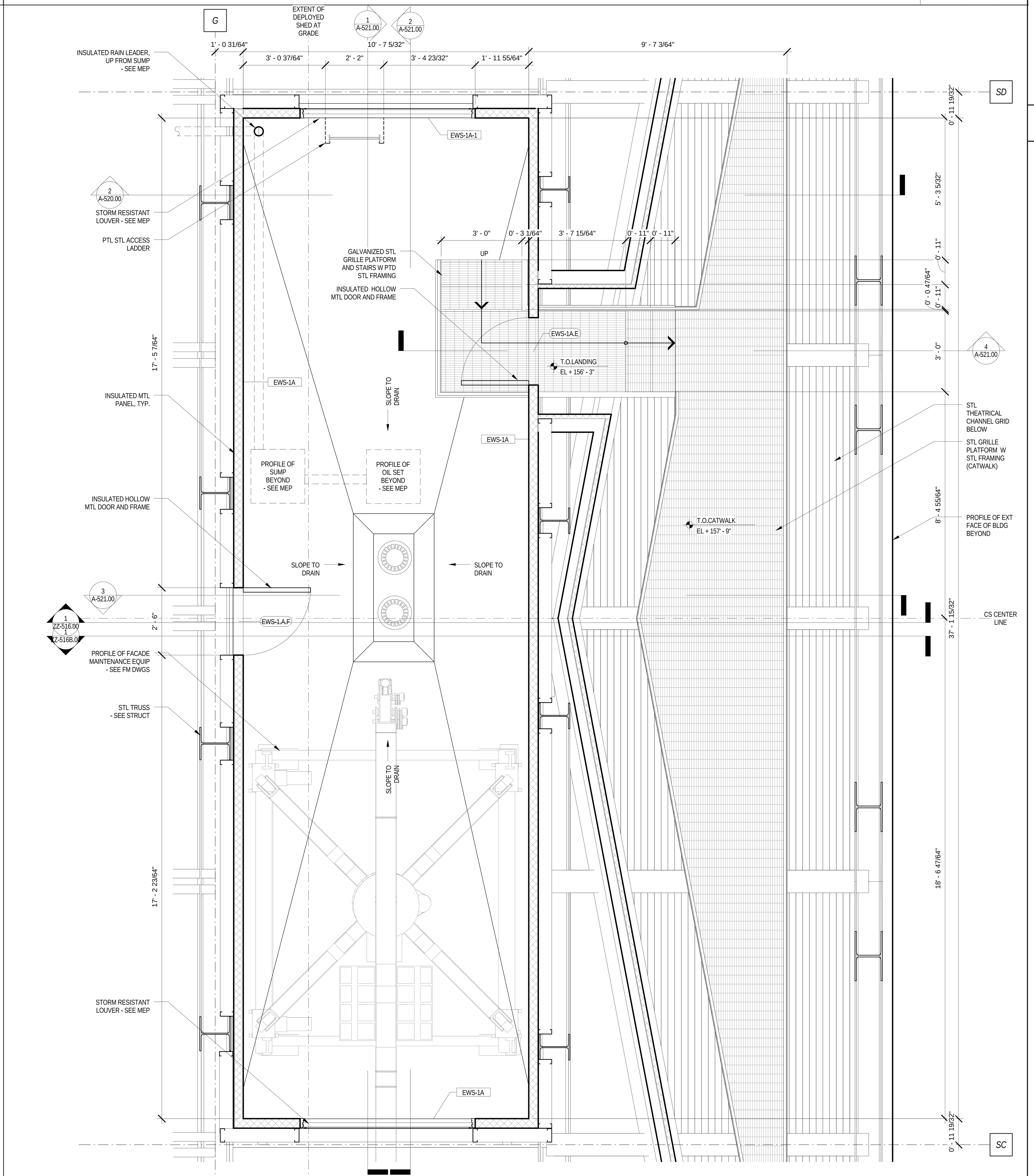
SECTION AWAY FROM BMU PIT — 1 — 1/2" = 1'-0"



SECTION @ BMU PIT VIEWING NORTH — 2 — 1/2" = 1'-0"



ENLARGED ROOF PLAN - BMU PIT GRILLES — 3 — 1/2" = 1'-0"



ENLARGED PLAN - MECH DECK BMU PIT — 4 — 1/2" = 1'-0"

LEGEND

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The geometry created by the intersecting elements shall be in accordance with the 3D model. The level of quality is to be similar to the approved mock-up for the typical node. The general concept is that edges flow smoothly and continuously between the edge of one element to the corresponding edge of the adjacent element and the interlying surfaces between these edges are blended and contoured to define a smooth, uninterrupted transition.

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Damian Titus
APPROVED
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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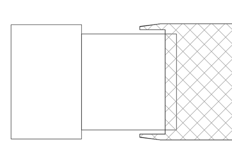
KEY PLAN



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44	33	DOB AMENDMENT 5	04.08.2016
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1		ADV. PROCUREMENT BID SET	06.16.2014

STAMP

REGISTERED ARCHITECT RICARDO SCOFIDIO 008800 STATE OF NEW YORK

DRAWN BY YY
CHECKED BY CB

PROJECT NUMBER
11017

TITLE
ENLARGED DRAWINGS - THEATRICAL DECK / EAST

SCALE: 1/2" = 1'-0"
0 8 16 24

DRAWING NO.
A-520.00

B-SCAN NO.
A-520.00

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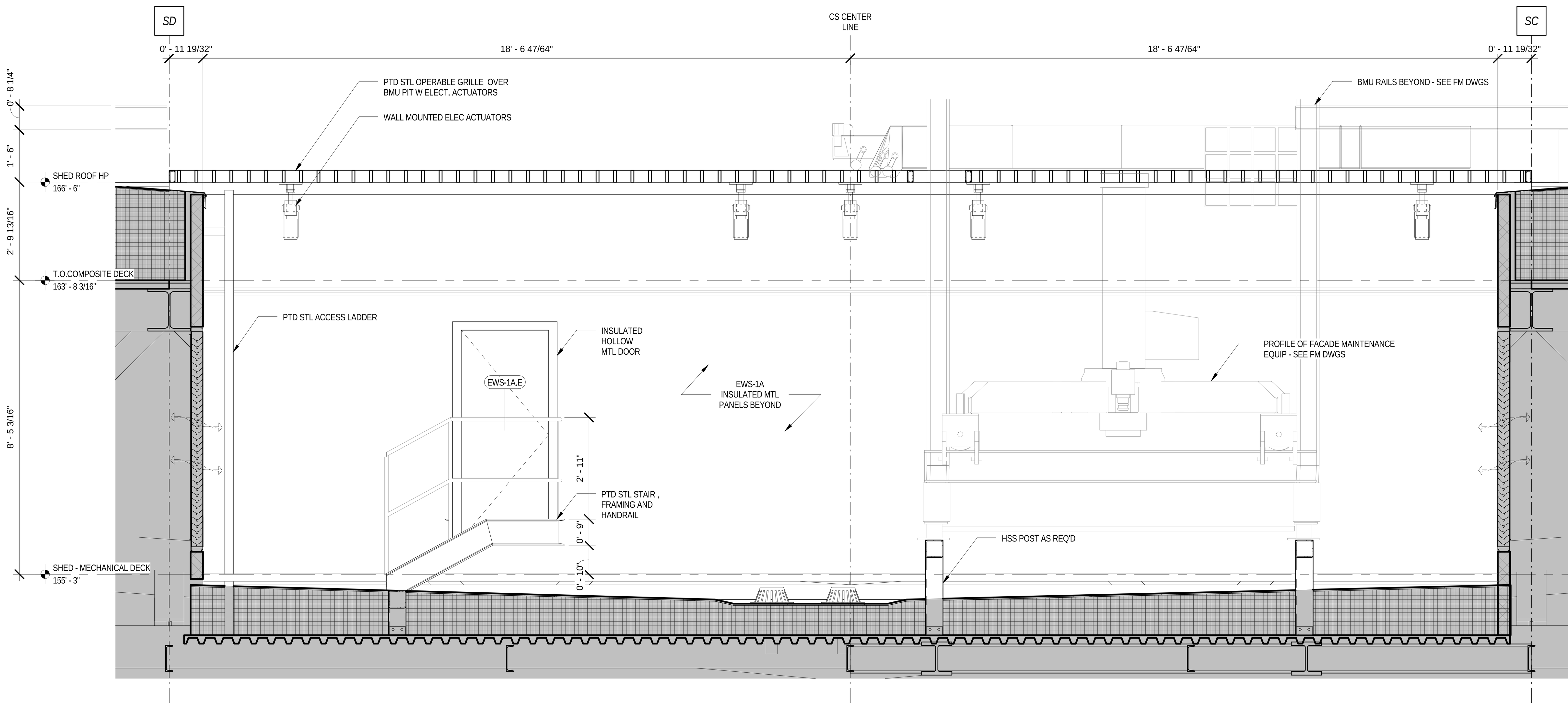
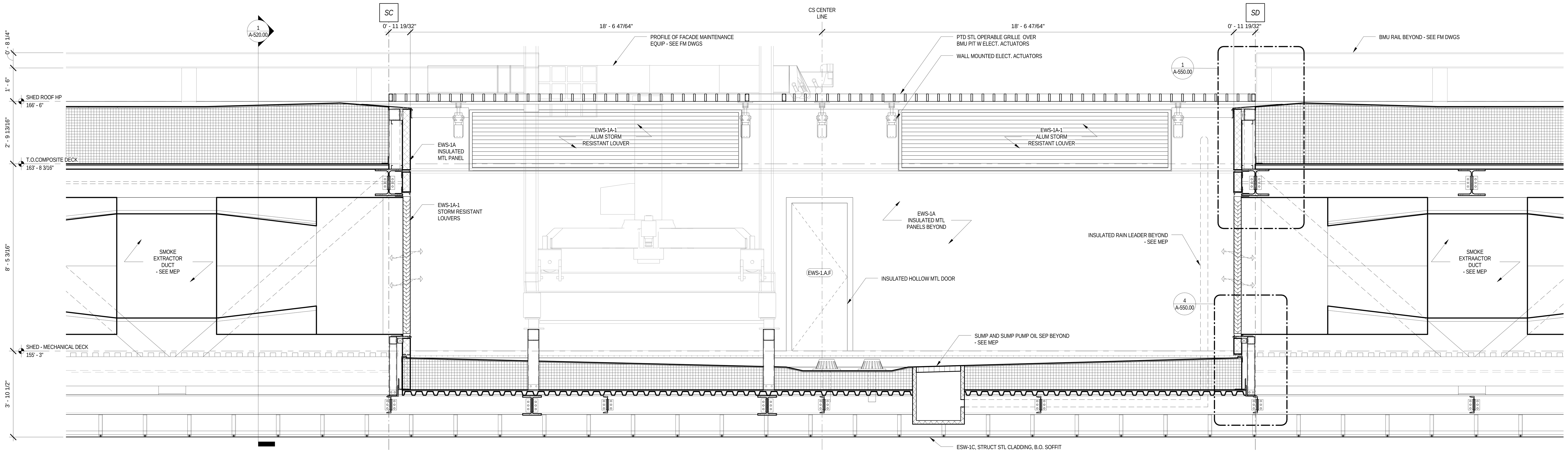
DEPT OF BLDGS 121192397 Job Number
ES120197345 Scan Code



ENLARGED SECTION @ BMU PIT VIEWING EAST | 1 | 1/2" = 1'-0"



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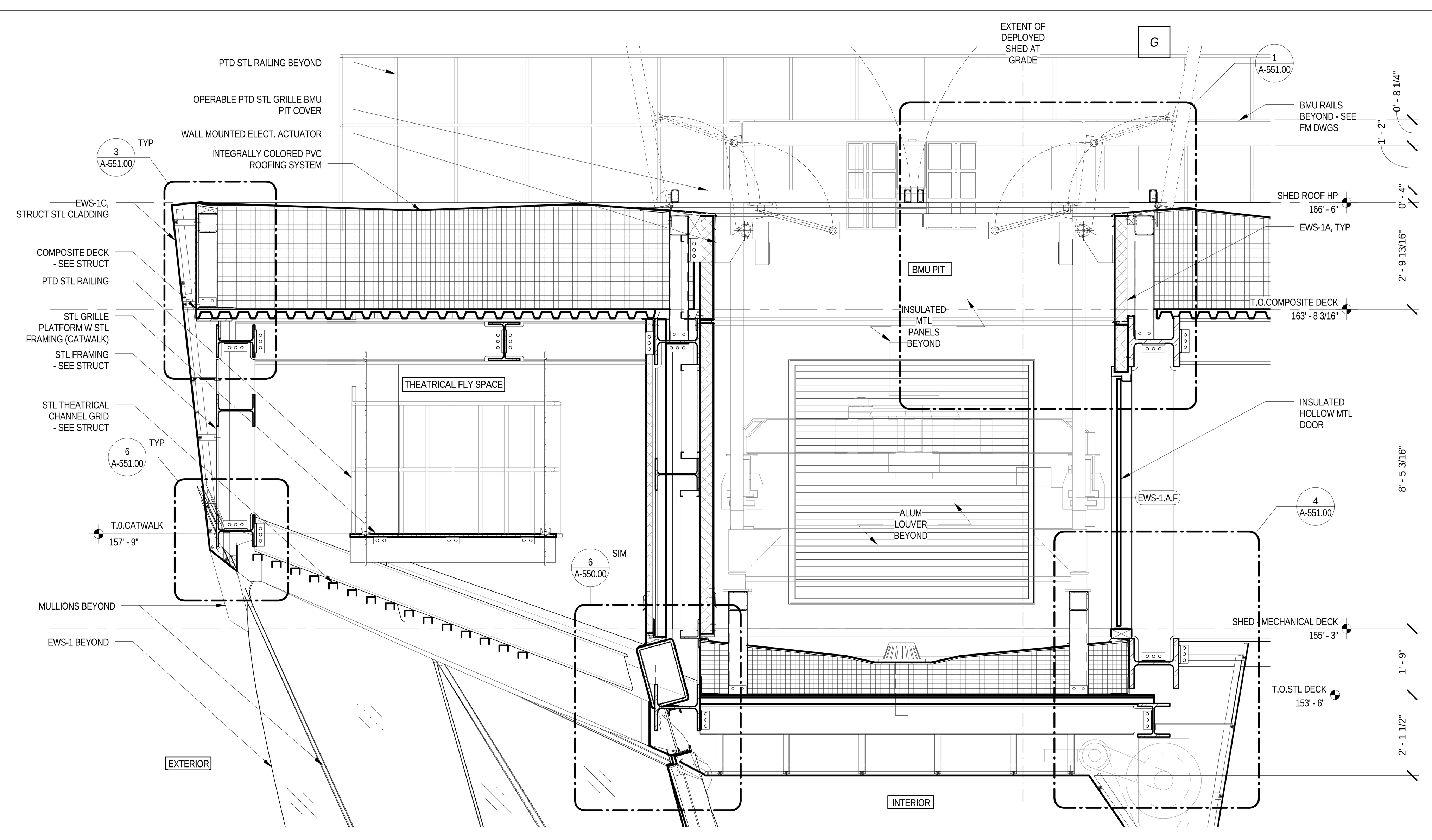
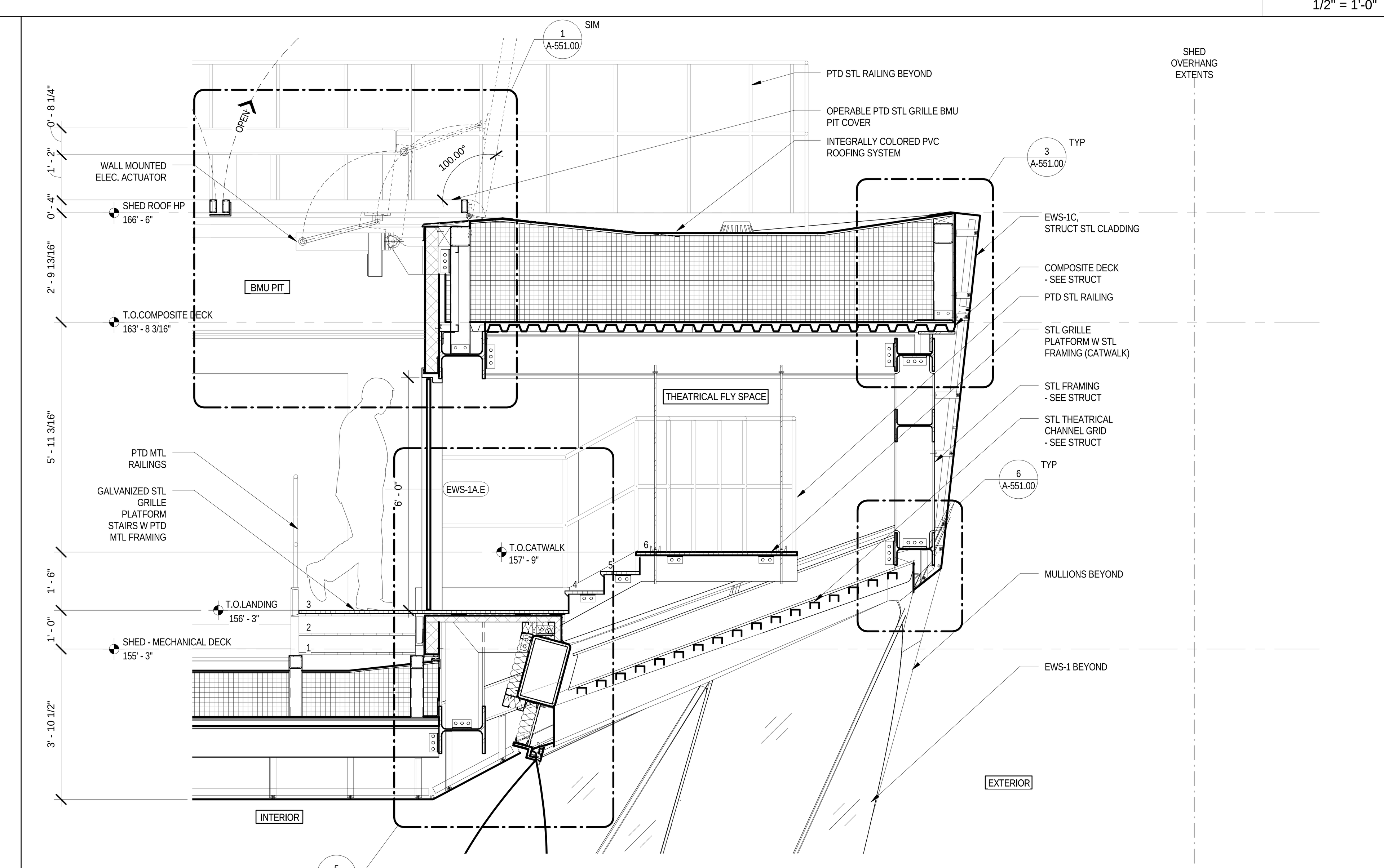


SECTION @ BMU PIT VIEWING SOUTH | 3 | 1/2" = 1'-0"



SECTION @ BMU PIT STAIR | 4 | 1/2" = 1'-0"

LEGEND

GENERAL NOTES

1.
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Damian Titus
APPROVED
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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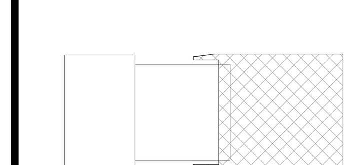

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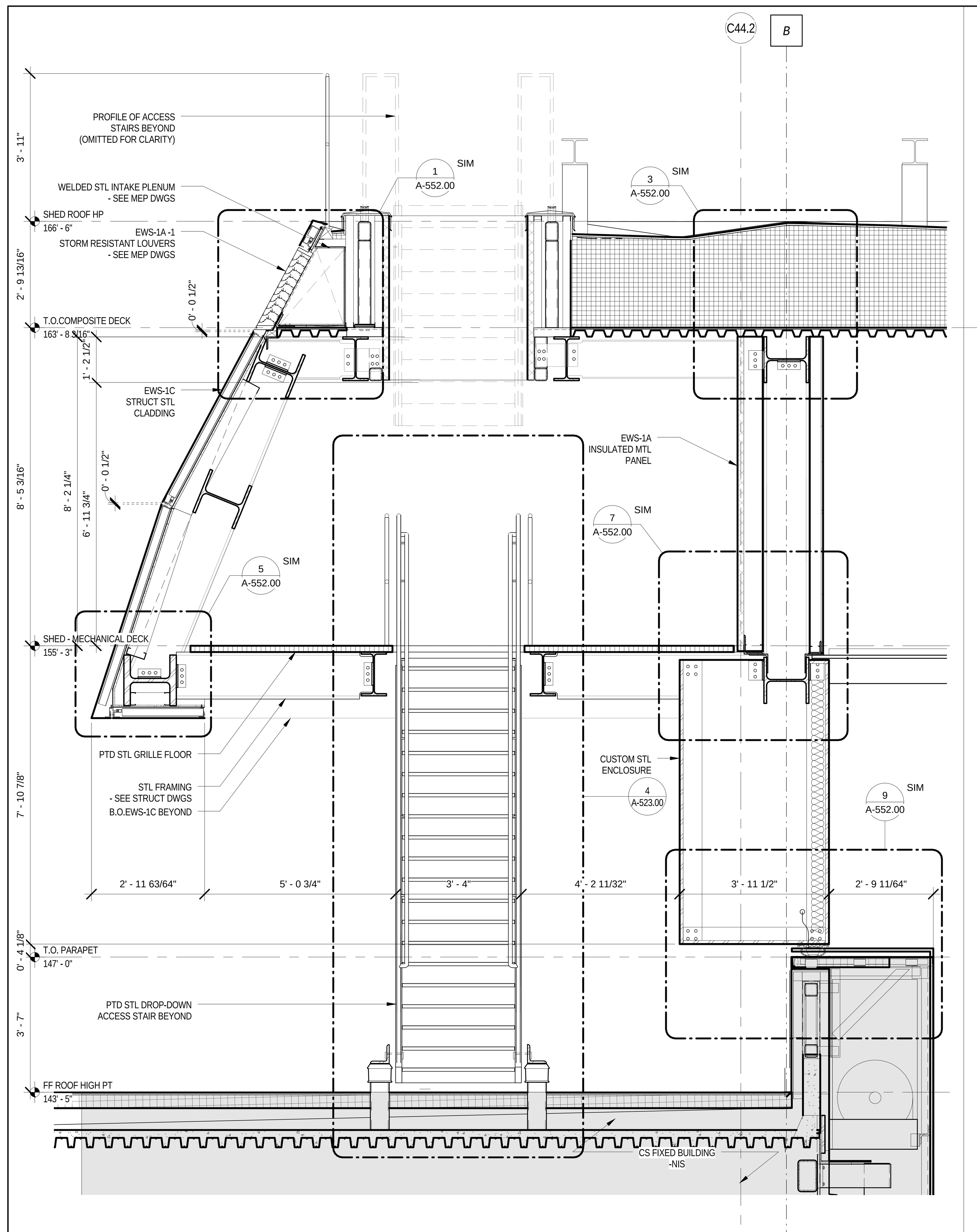
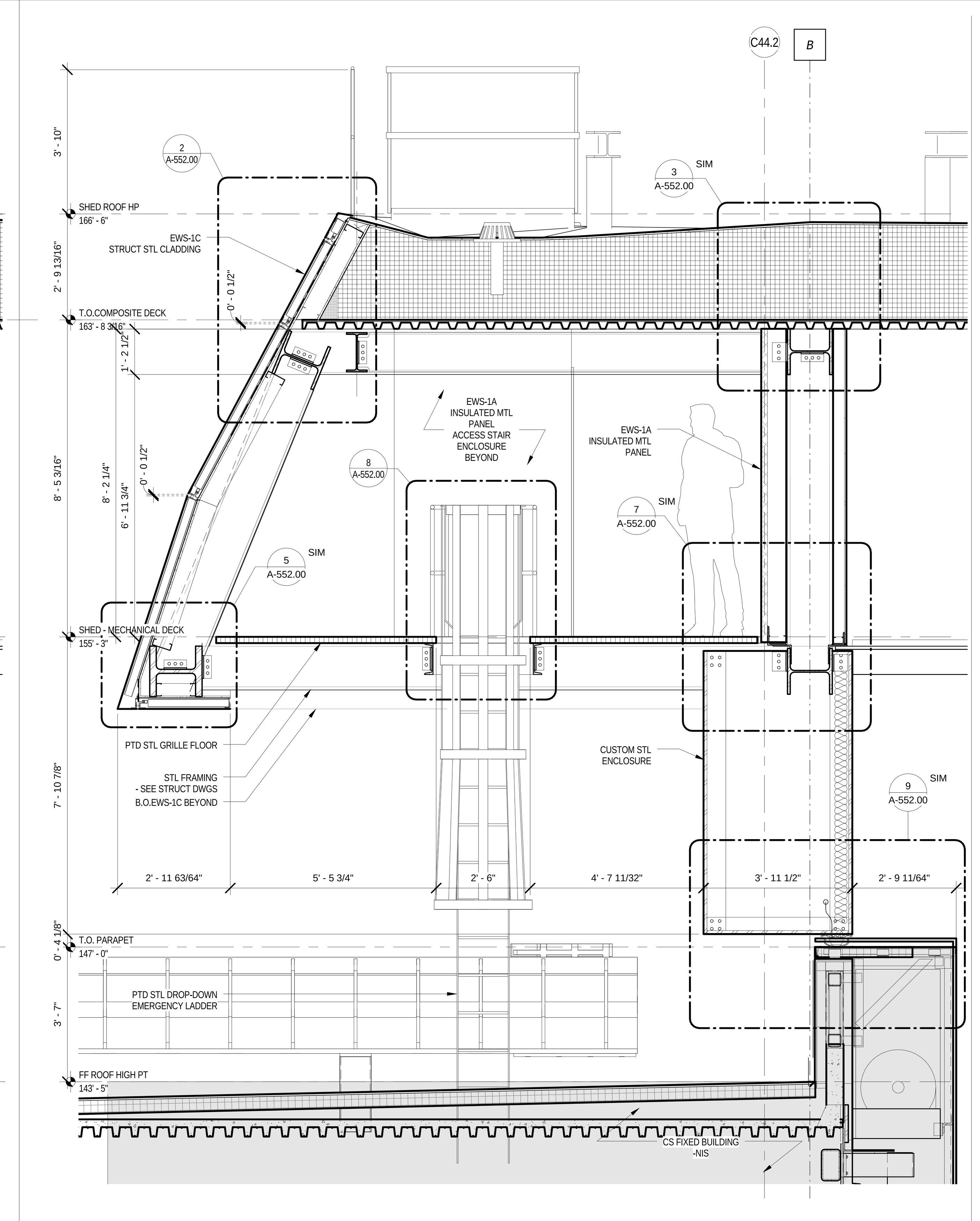
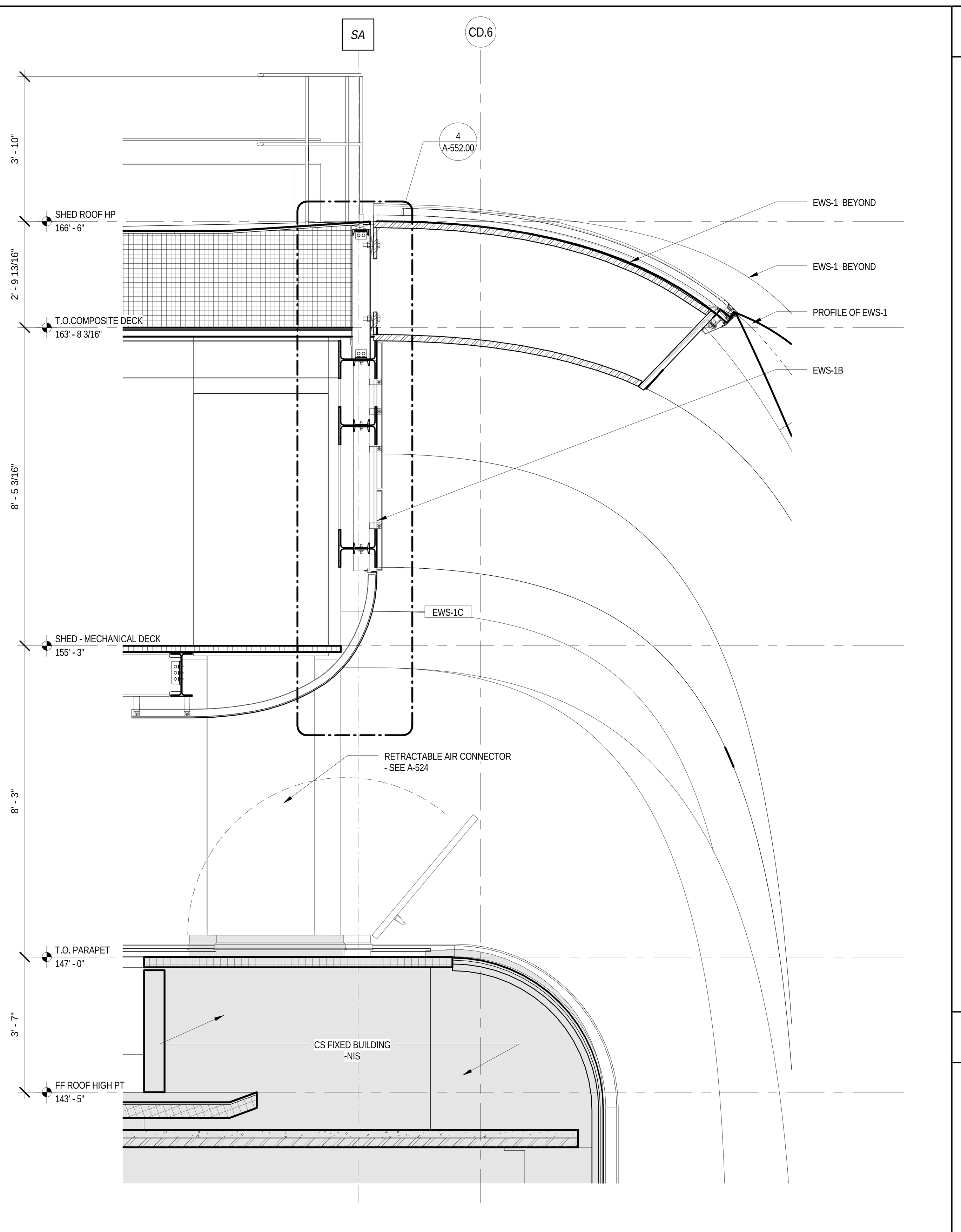


ENLARGED SECTION - WEST ACCESS STAIR1 | 1 | 1/2" = 1'-0"



ENLARGED SECTION - WEST ACCESS LADDER | 2 | 1/2" = 1'-0"



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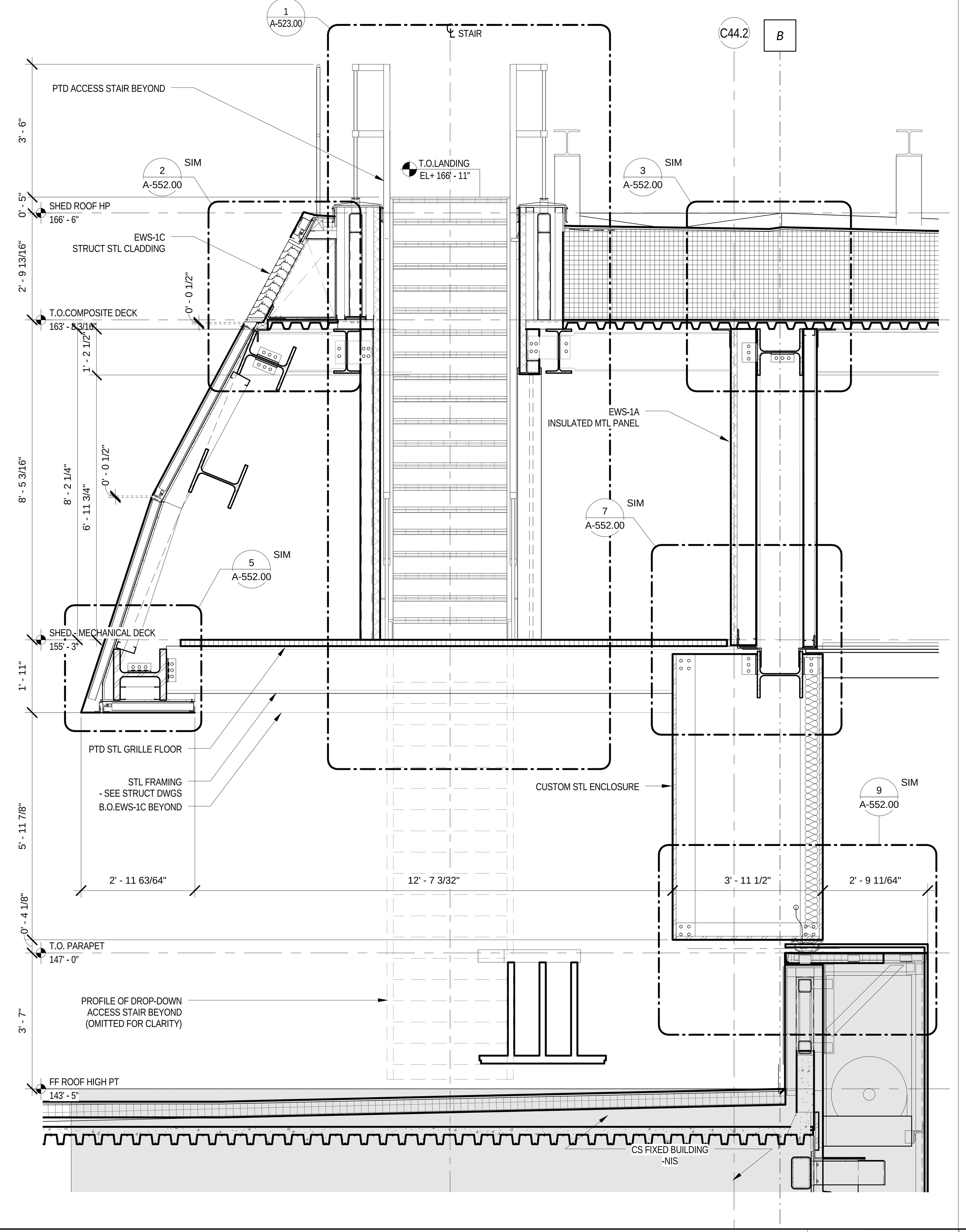
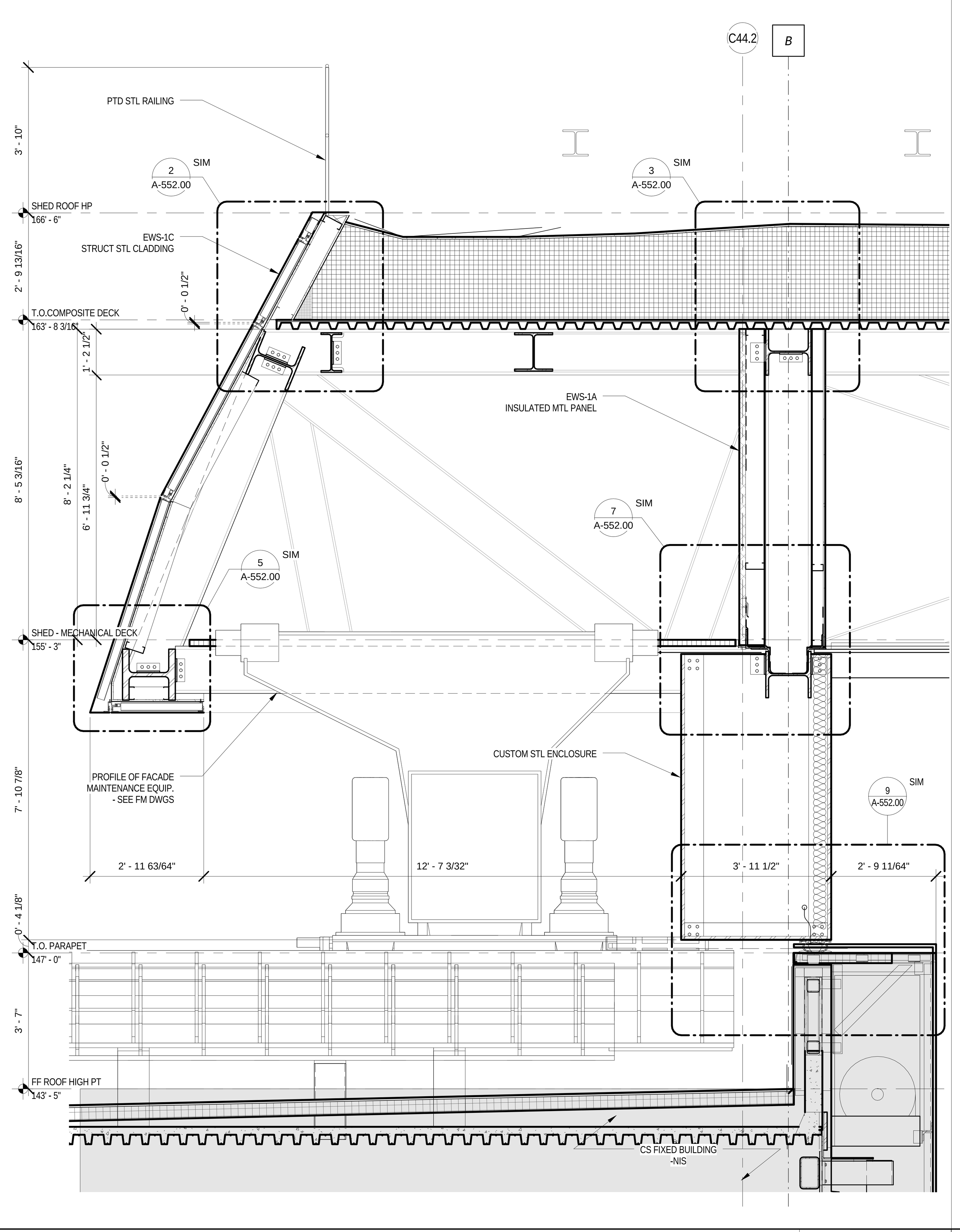
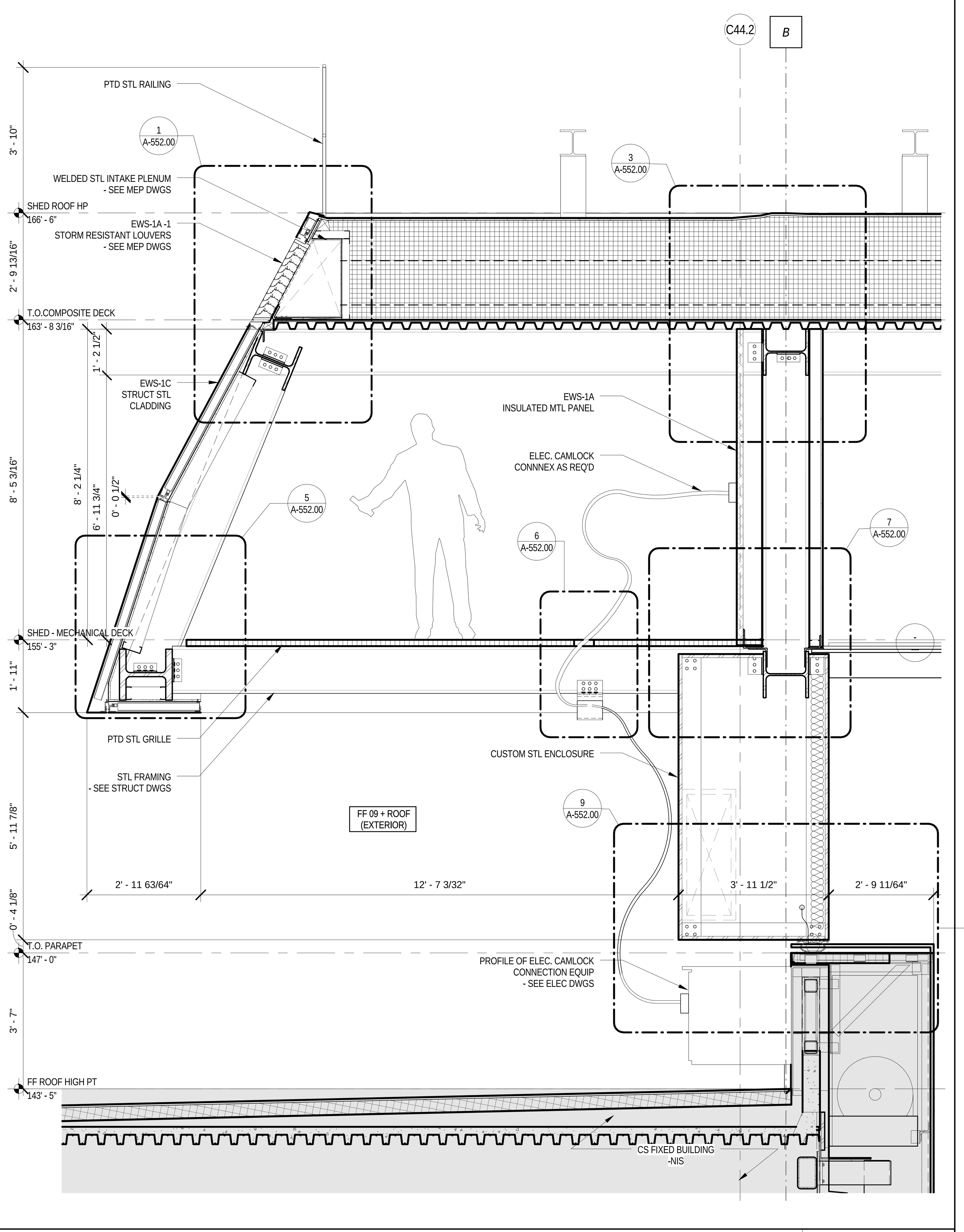


ENLARGED SECTION - WEST ACCESS STAIR | 4 | 1/2" = 1'-0"



ENLARGED SECTION - WEST SLED DRIVE | 5 | 1/2" = 1'-0"



ENLARGED SECTION - WEST - TYP | 6 | 1/2" = 1'-0"

LEGEND

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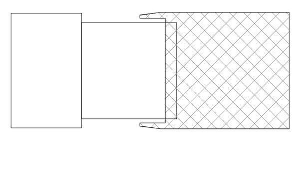

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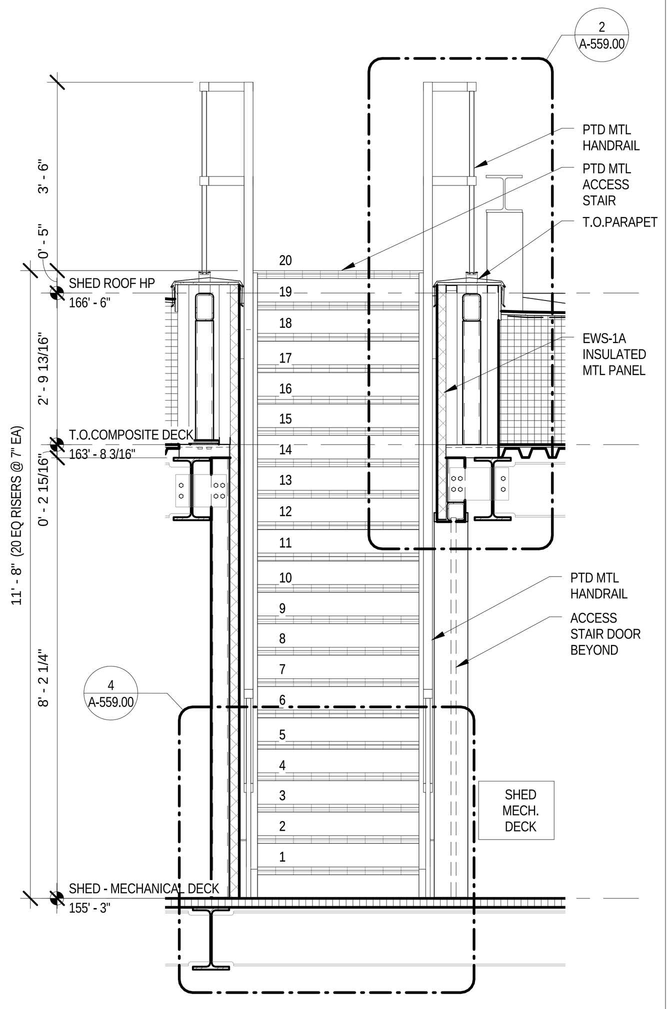
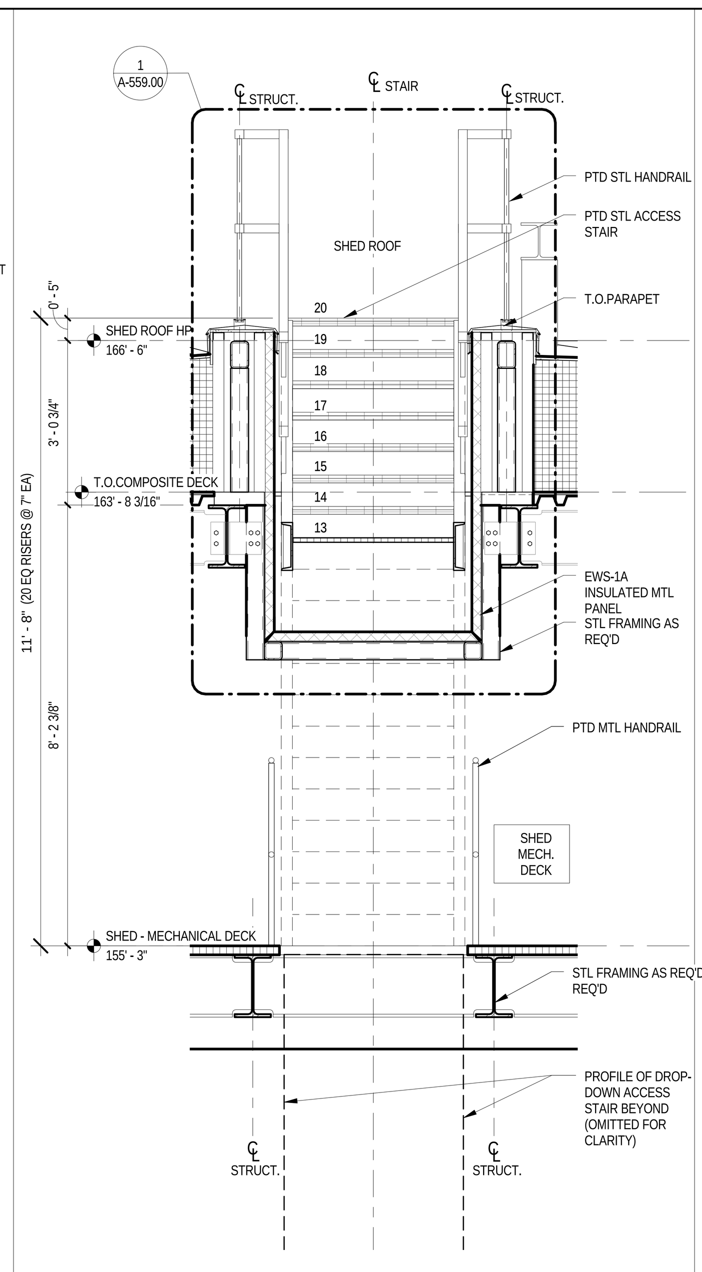
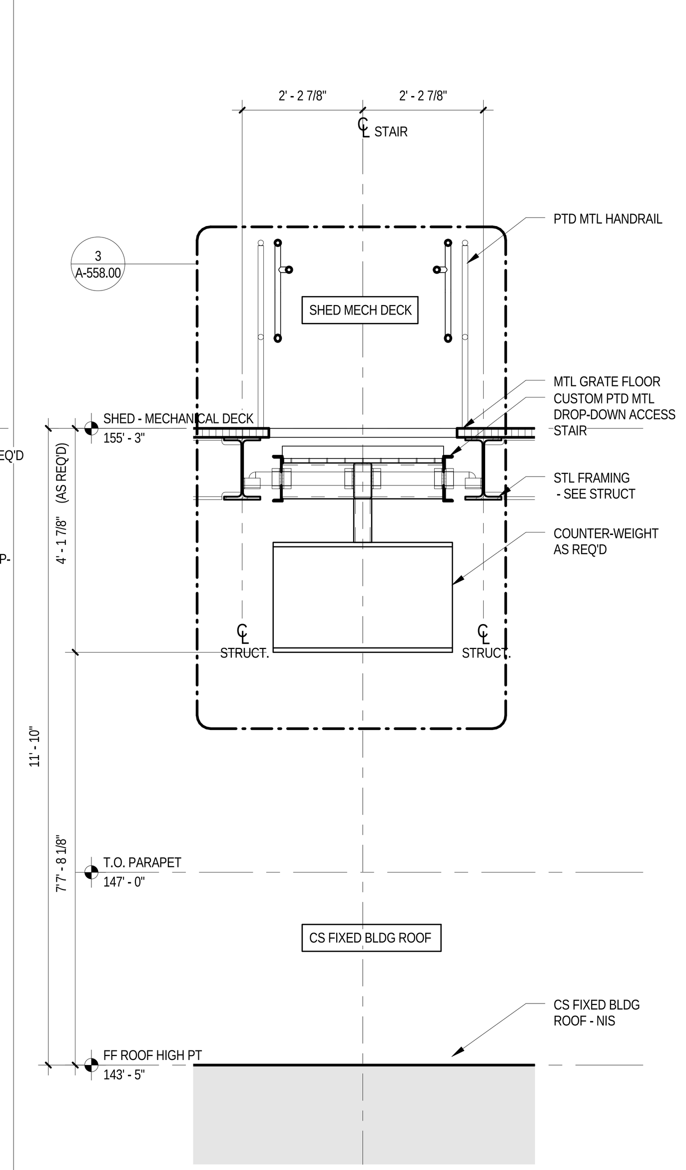


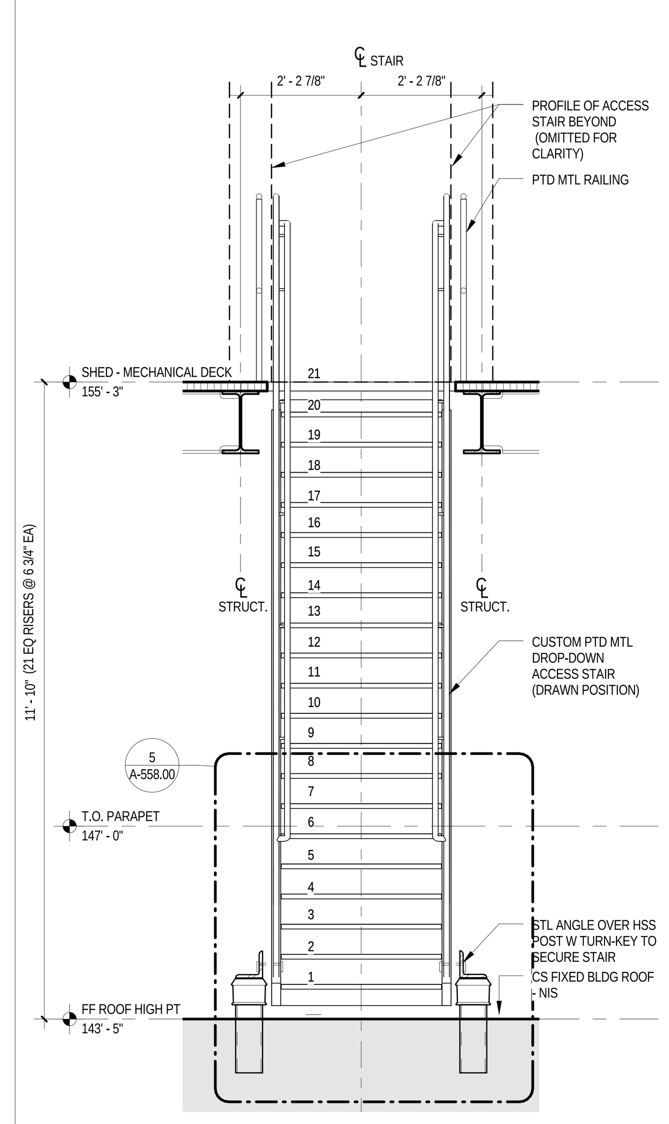
STAIR G - ELEV | 1 | 1/2" = 1'-0"



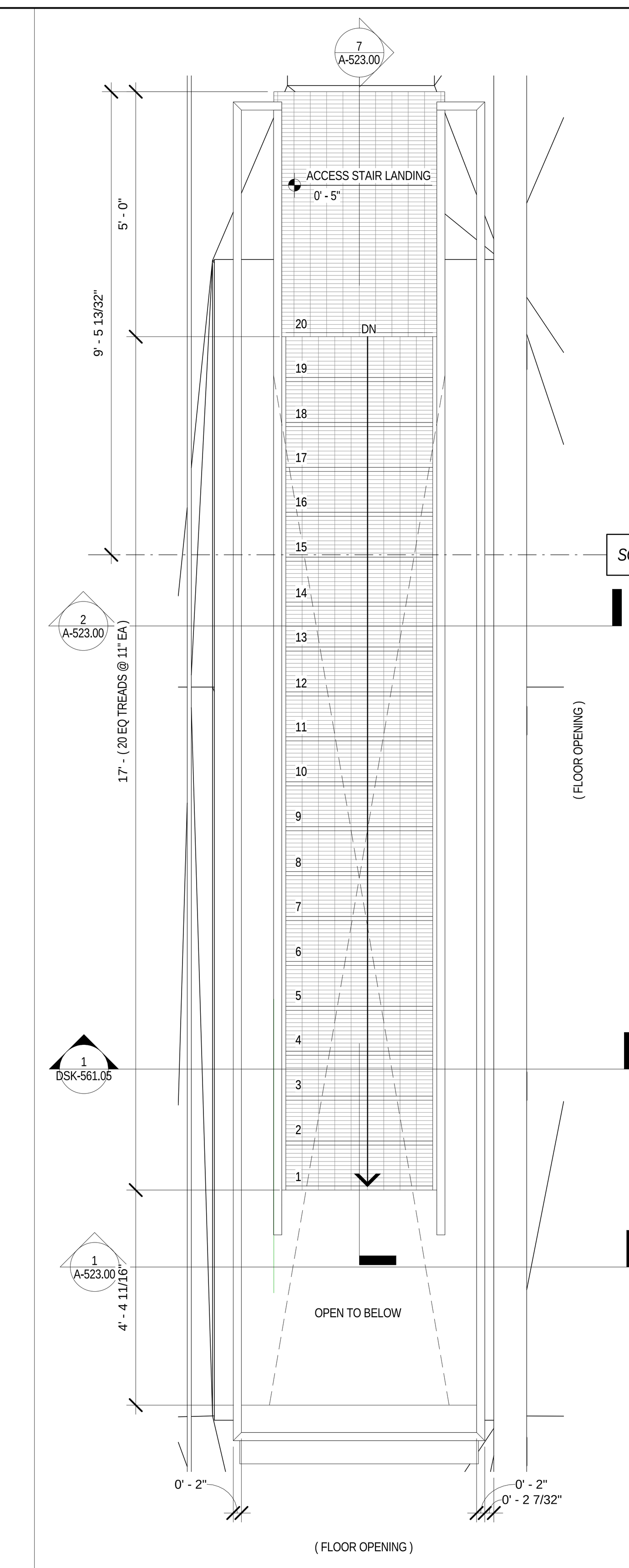
STAIR G CROSS SECTION | 2 | 1/2" = 1'-0"



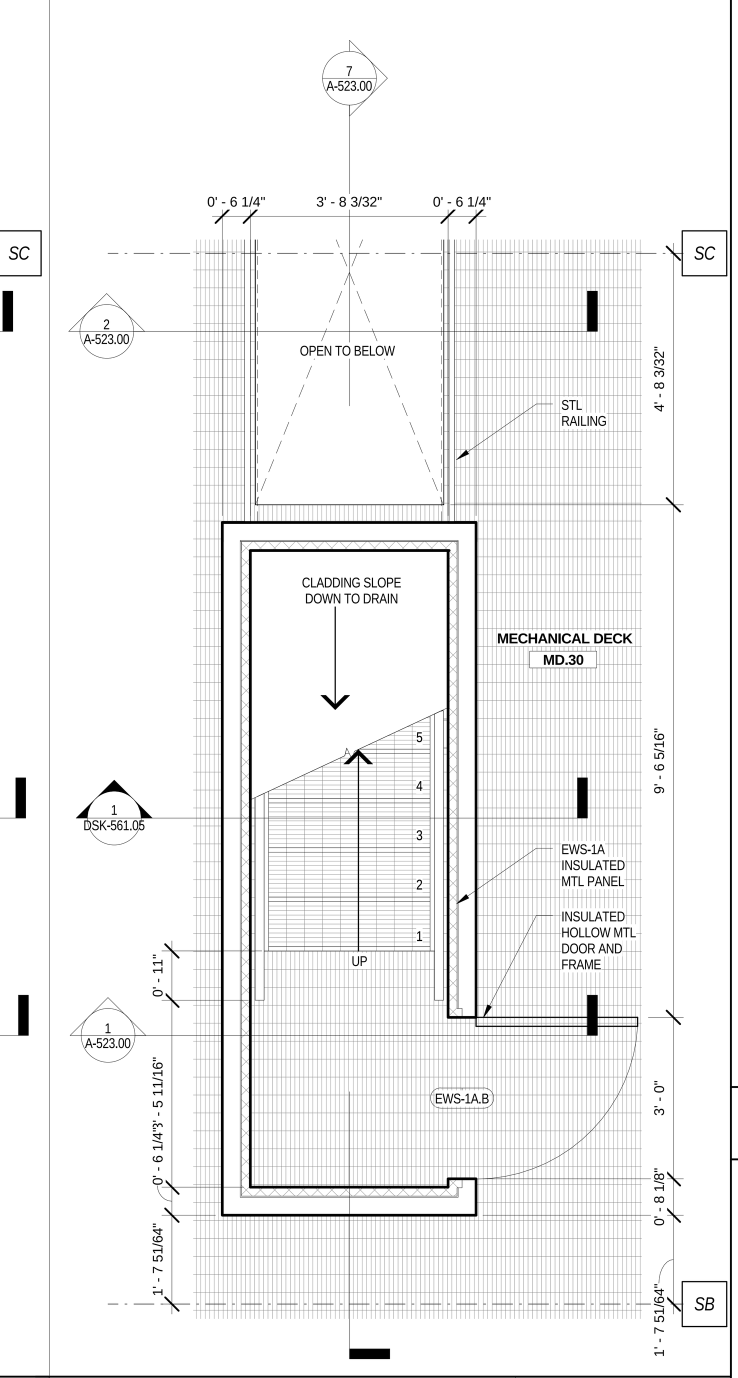
STAIR F CROSS SECTION | 3 | 1/2" = 1'-0"



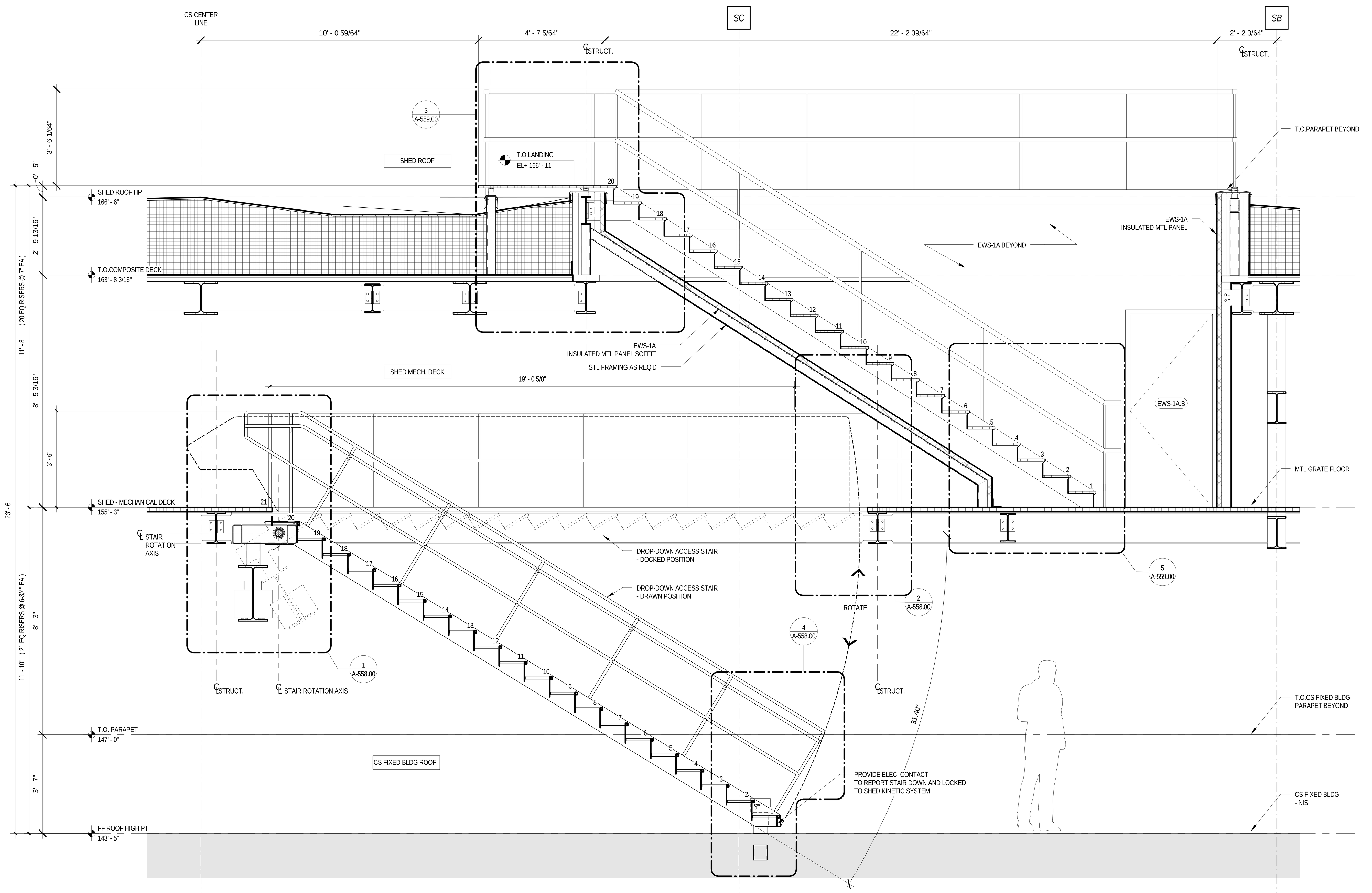
STAIR F - ELEV | 4 | 1/2" = 1'-0"



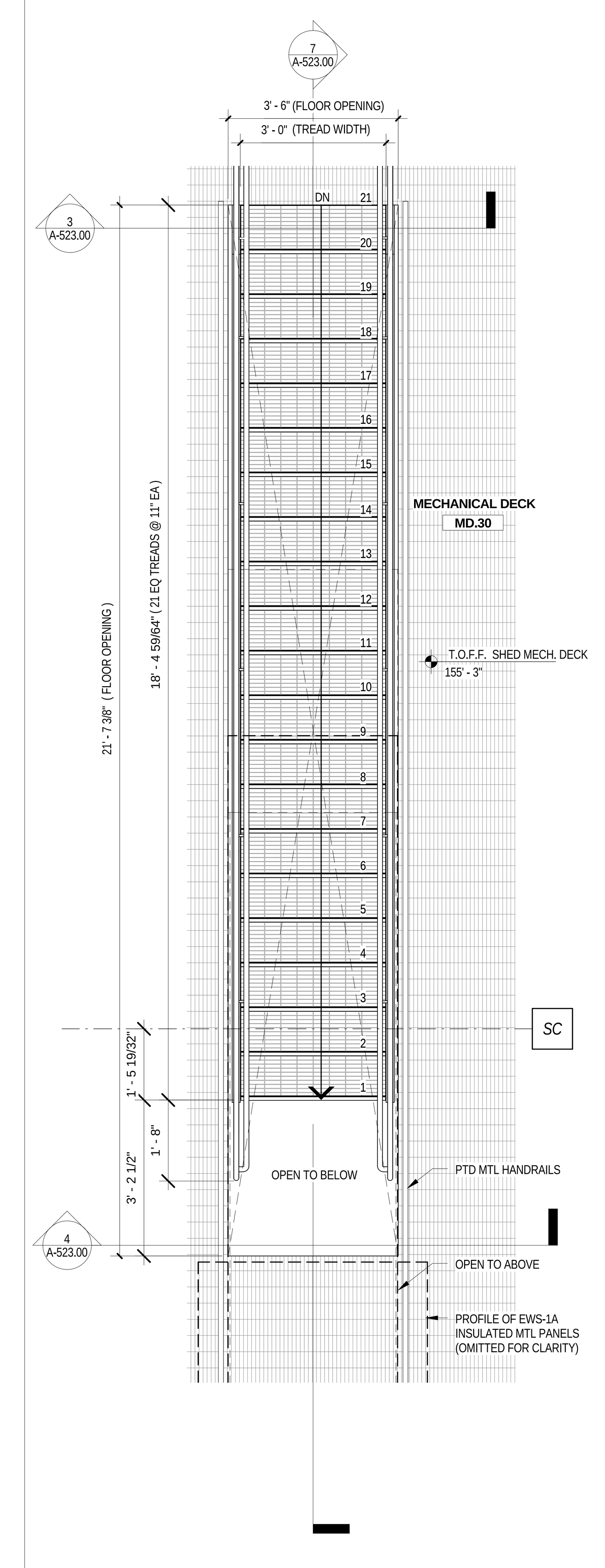
STAIR G PLAN - ROOF | 5 | 1/2" = 1'-0"



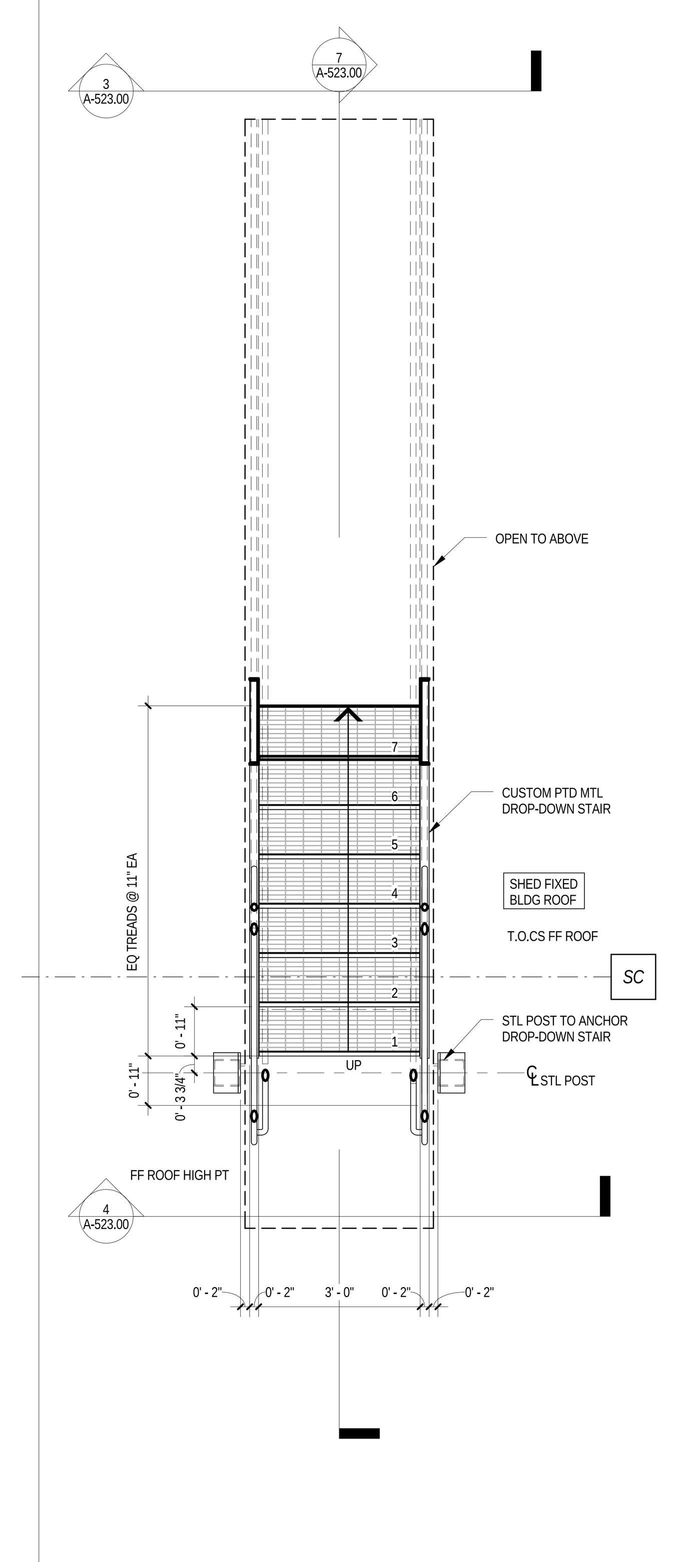
STAIR G PLAN - MECH DECK | 6 | 1/2" = 1'-0"



ENLARGED N/S SECTION @ ACCESS STAIRS | 7 | 1/2" = 1'-0"



STAIR F PLAN - MECH DECK | 8 | 1/2" = 1'-0"



STAIR F PLAN - L09 | 9 | 1/2" = 1'-0"

LEGEND

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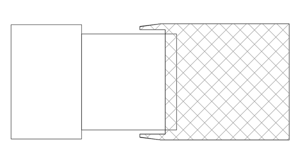

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44	33	DOB AMENDMENT 5	04.08.2016
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2		50% CONSTRUCTION DOCUMENTS	08.15.2014
1		ADV. PROCUREMENT BID SET	06.16.2014

STAMP

REGISTERED ARCHITECT RICARDO SCOFIDIO 008800 STATE OF NEW YORK

DRAWN BY YY **CHECKED BY** CB

PROJECT NUMBER
11017

TITLE
ENLARGED DRAWINGS - SHED WEST ACCESS STAIRS

SCALE: 1/2" = 1'-0"
0 8 16 24

DRAWING NO.
A-523.00

B-SCAN NO.
A-523.00

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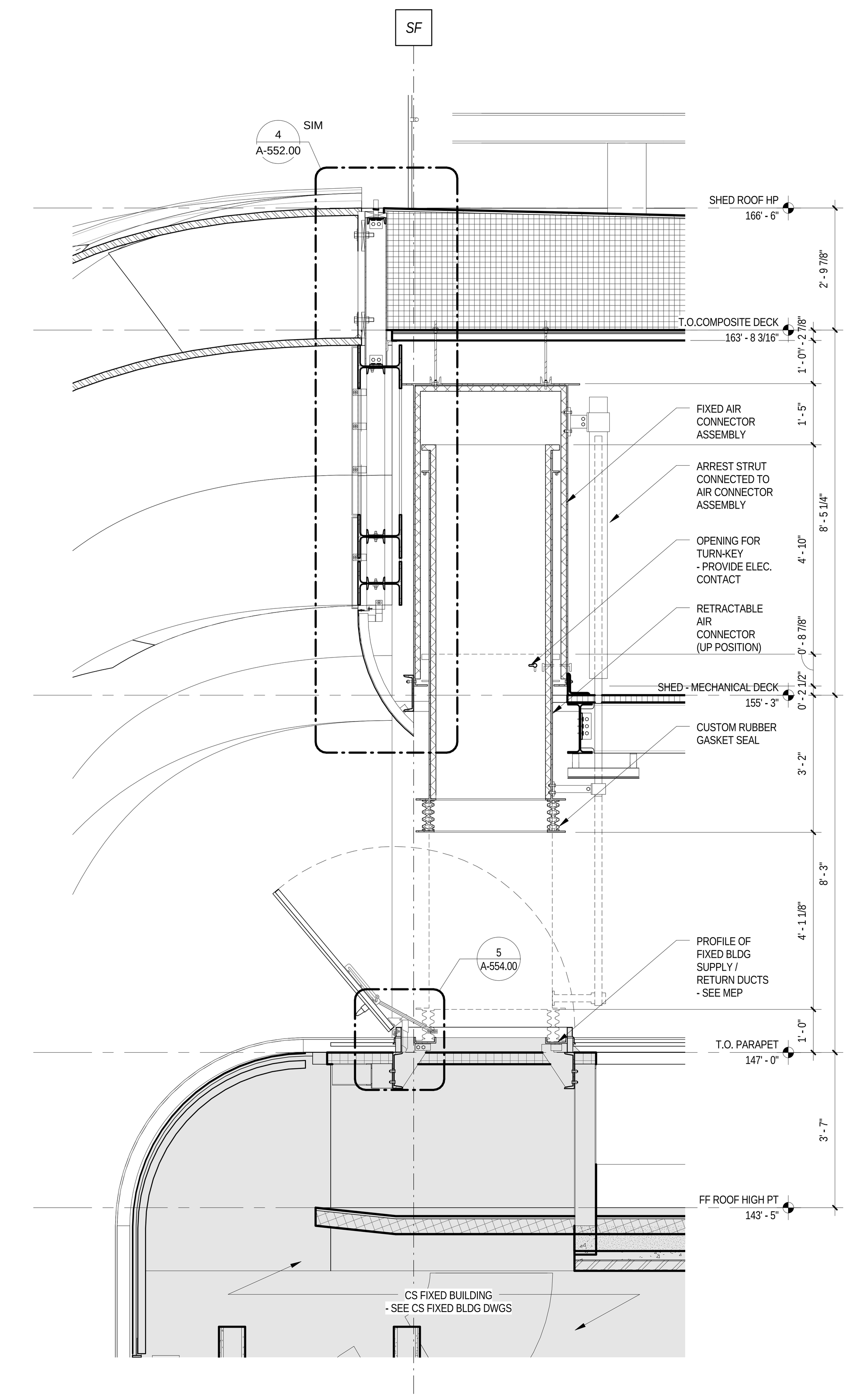
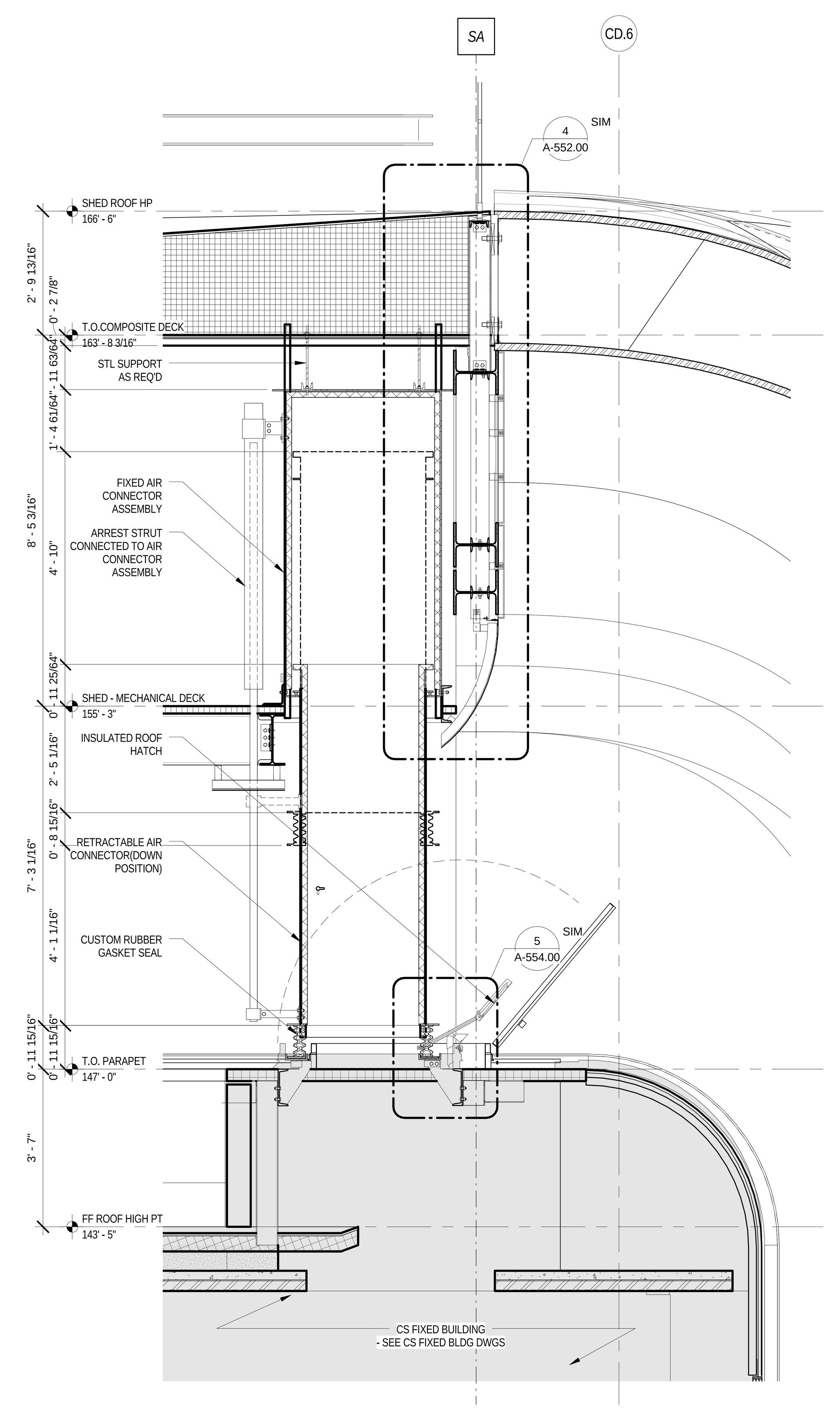
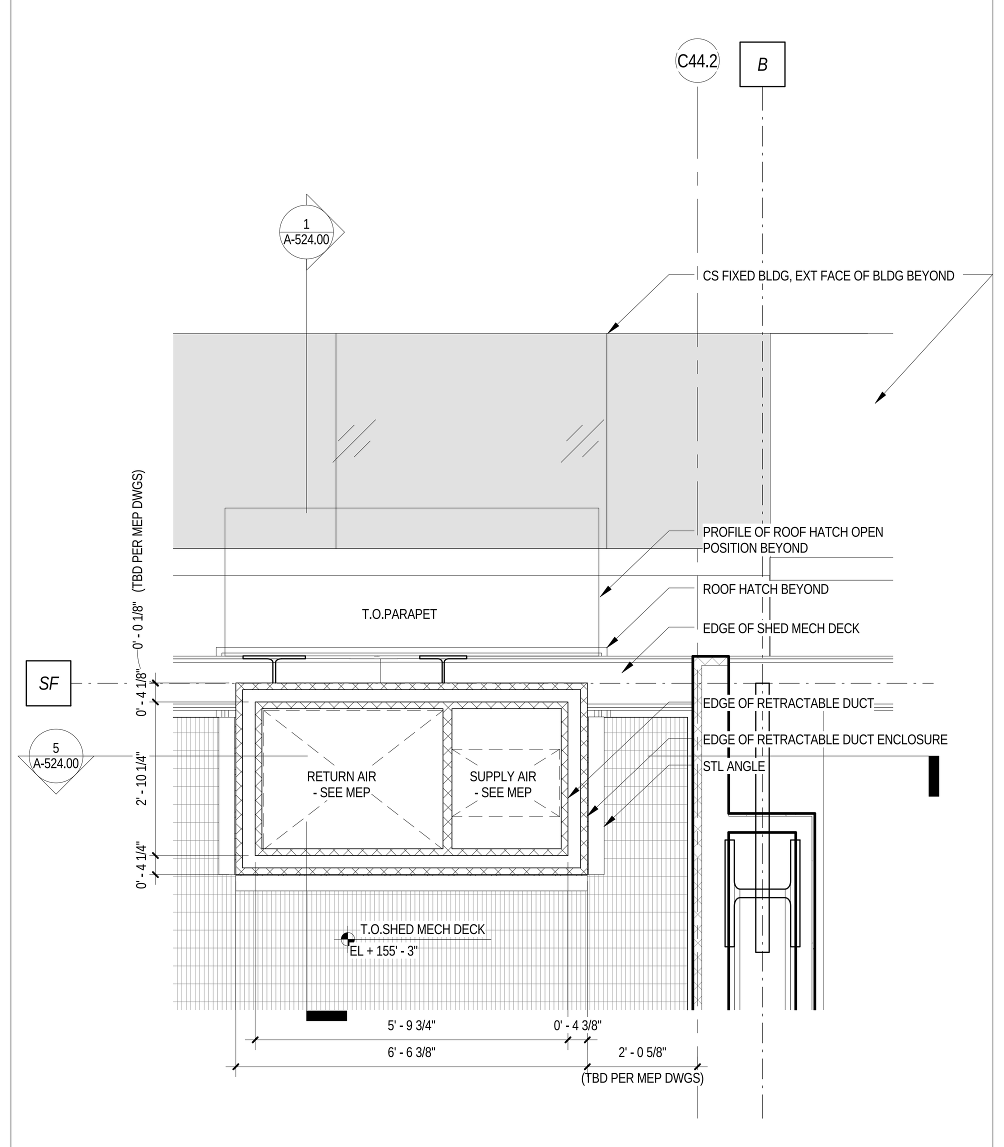
DEPT OF BLDGS 121192397 Job Number
ES234948864 Scan Code



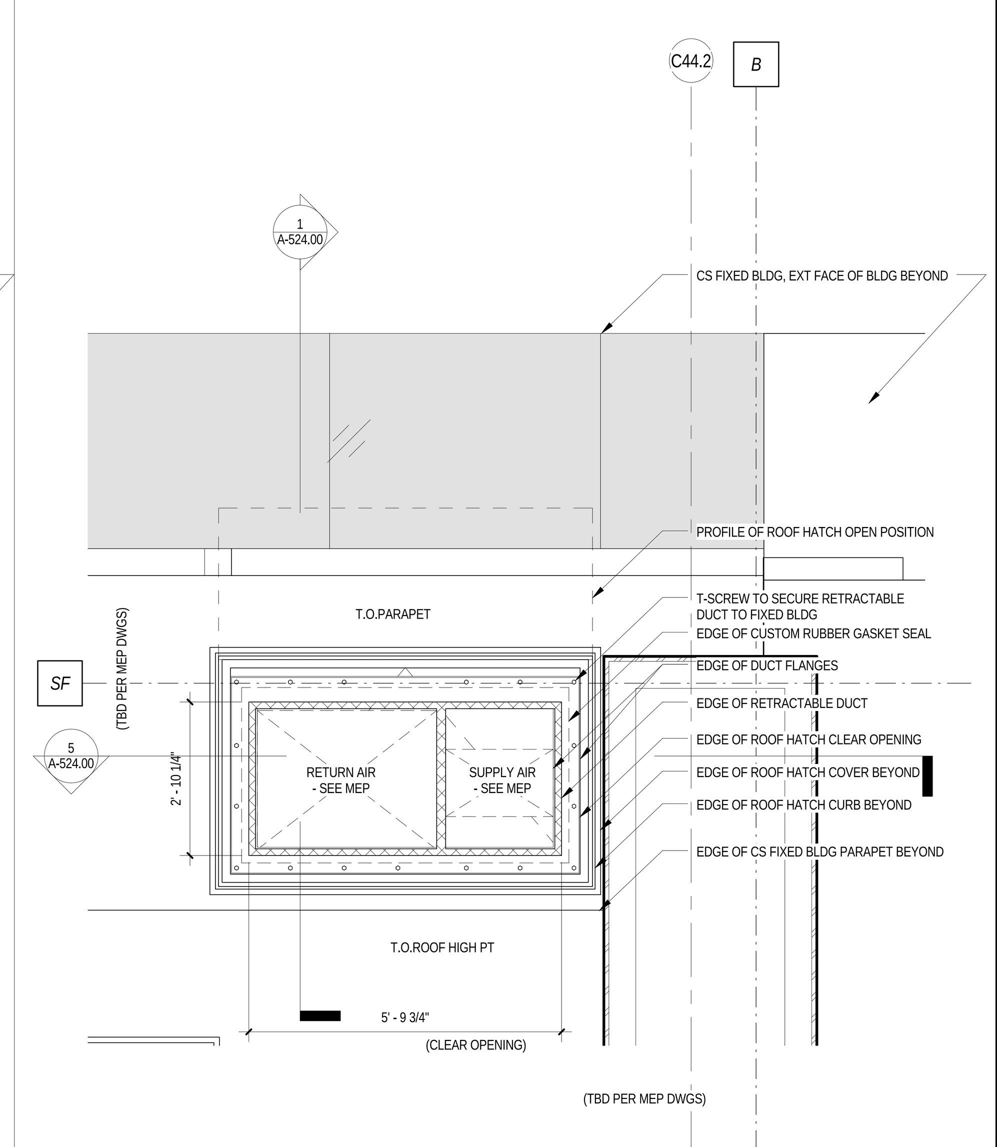
DUCT N - NS | 1 | 1/2" = 1'-0"



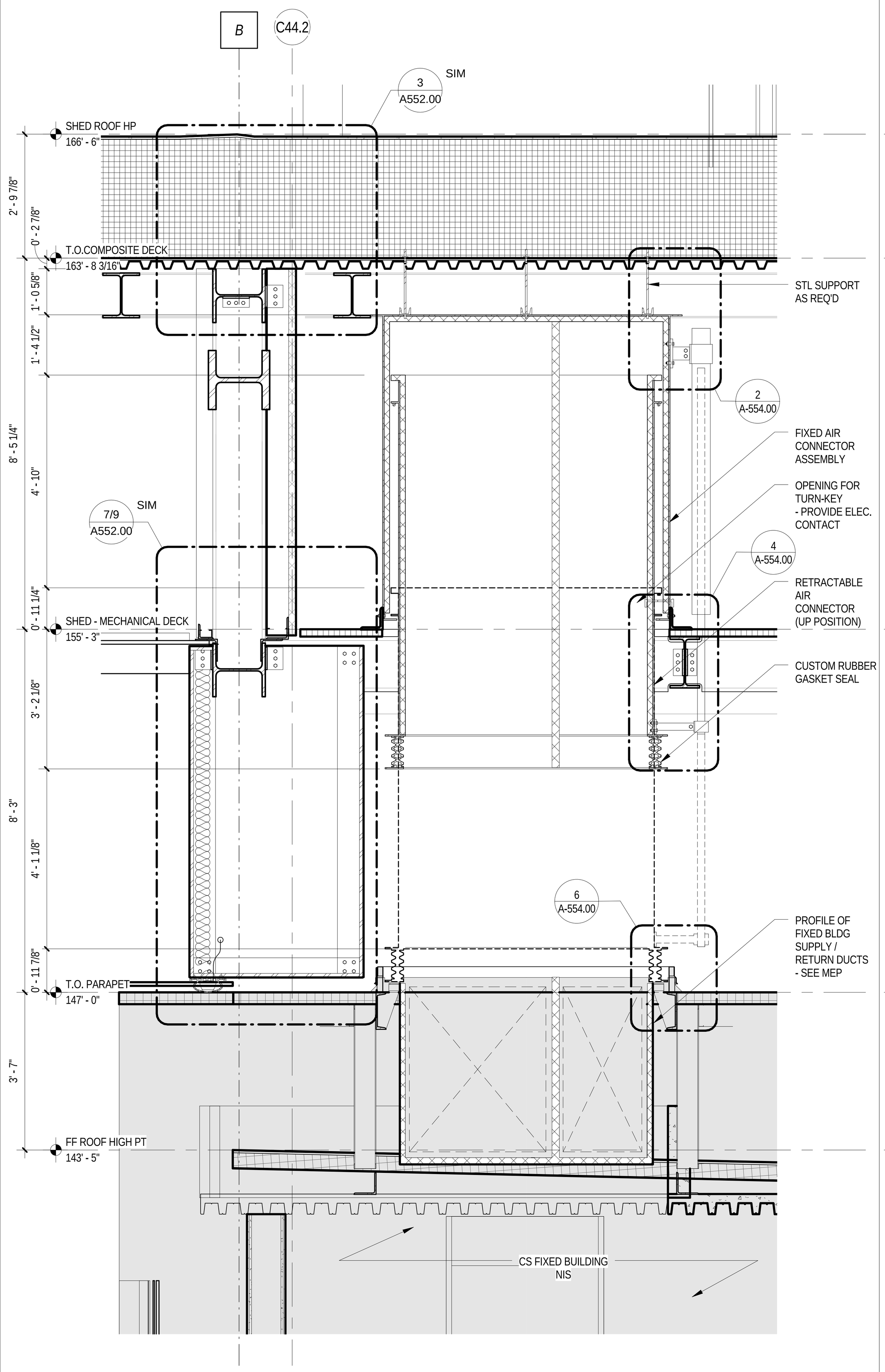
DUCT S -NS | 2 | 1/2" = 1'-0"



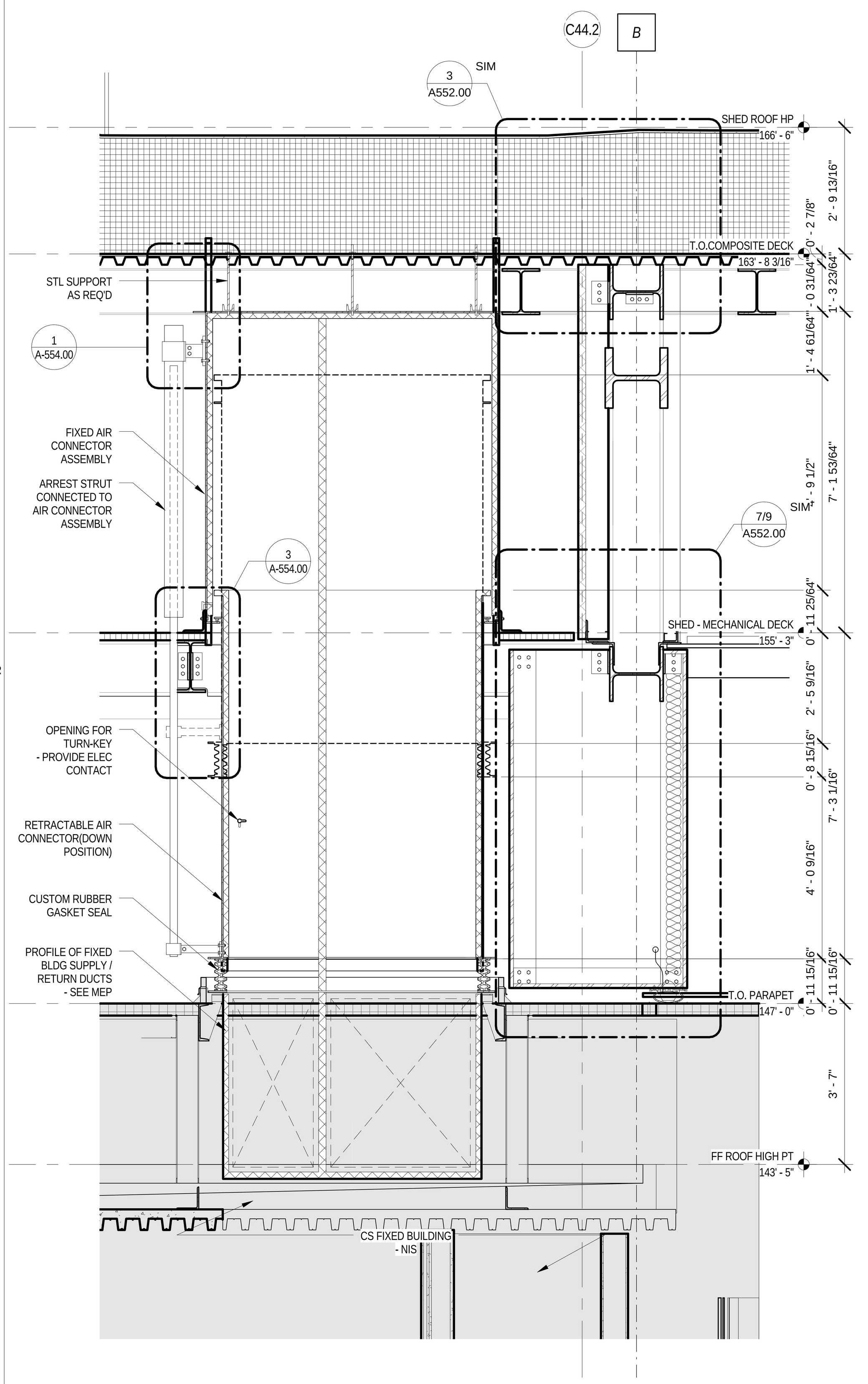
ENLARGED PLAN - DUCTS MECH DECK N | 3 | 1/2" = 1'-0"



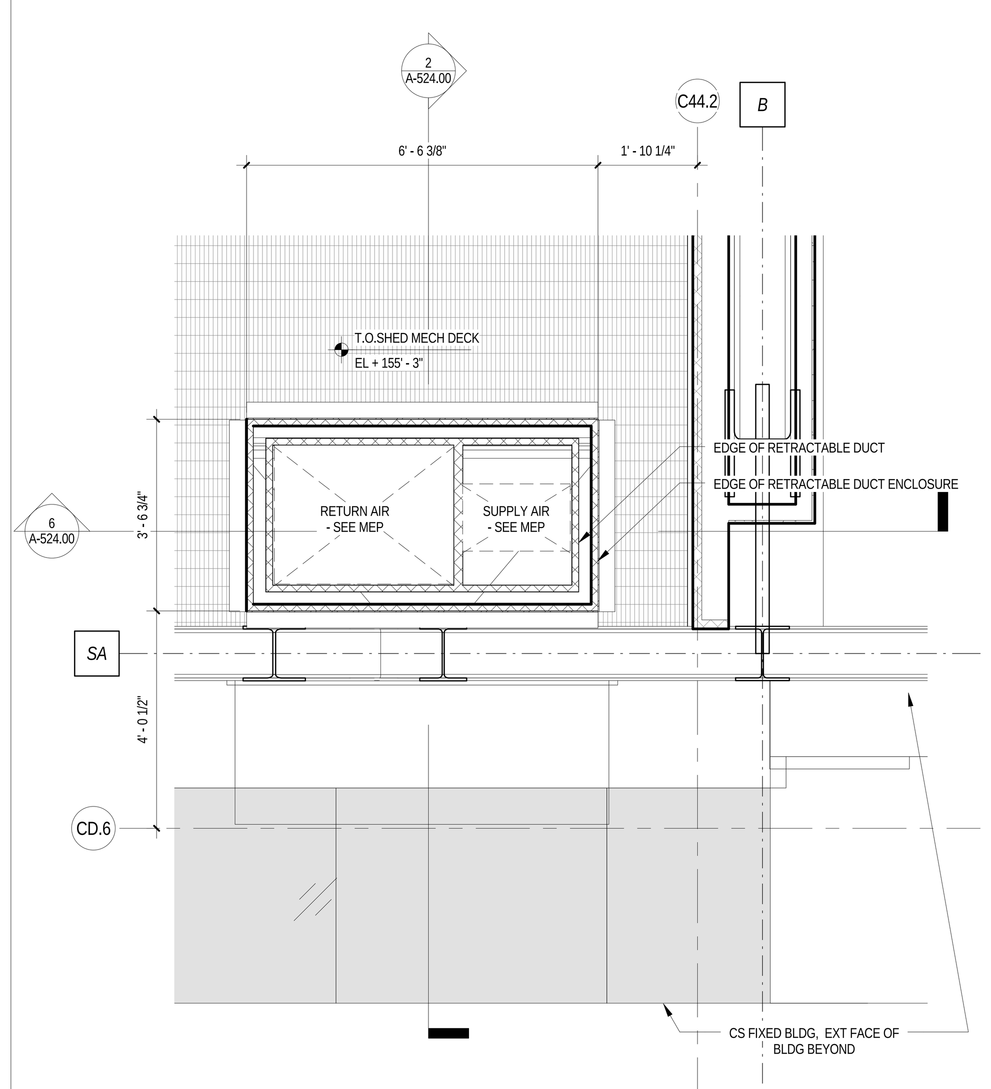
ENLARGED PLAN - DUCTS L09 N | 4 | 1/2" = 1'-0"



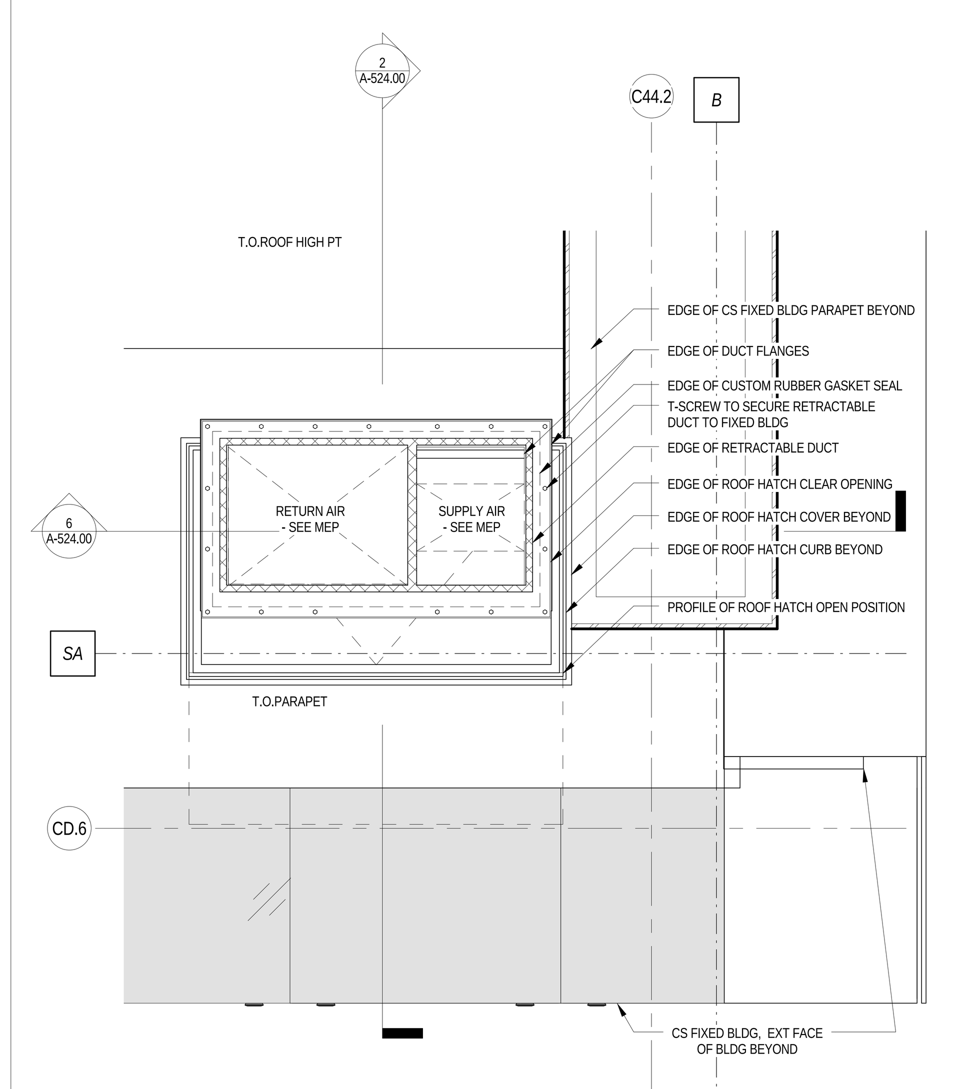
DUCT N - EW | 5 | 1/2" = 1'-0"



DUCT S - EW | 6 | 1/2" = 1'-0"



ENLARGED PLAN - DUCTS MECH DECK S | 7 | 1/2" = 1'-0"



ENLARGED PLAN - DUCTS L09 S | 8 | 1/2" = 1'-0"

LEGEND

GENERAL NOTES

1.
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2.
Geometry, dimensions and surface contouring, blending and intersection of sections illustrated in the structural drawings are provided for reference and generation of the structural arrangement and details only. The 3D model issued by the Architect defines the exterior surface and shall be adhered to for the final geometry. It is the responsibility of the Contractor to identify any discrepancies or ambiguities for discussion, resolution and direction from the Architect and Structural Engineer.

3.
Typical N/S wall node:
The geometry created by the intersecting main verticals and diagonals shall be in accordance with the 3D model and follow, as a minimum, the quality exhibited in the approved mock-up. The general concept is that edges flow smoothly and continuously between the straight edge of a diagonal through a curve to the adjacent edge of the vertical and the interlying surfaces between these edges are blended and contoured to define a smooth, uninterrupted transition.

4.
Typical Node Elsewhere:
The geometry created by the intersecting elements shall be in accordance with the 3D model. The level of quality is to be similar to the approved mock-up for the typical node. The general concept is that edges flow smoothly and continuously between the edge of one element to the corresponding edge of the adjacent element and the interlying surfaces between these edges are blended and contoured to define a smooth, uninterrupted transition.

5.
This drawing should be considered integral with the written Specifications issued along with the drawings and 3D models. Refer to the Advanced procurement Bid Issue Specifications Table of Contents.

6.
Structural steel cladding enclosing selected areas of the Shed (referred to as EWS-1c) shall be in the scope of the steel contractor for continuity with adjacent primary steel members. Criteria for tolerance and flatness to match that of the structural steel (see structural drawings & specifications). Plate configuration, including thickness, internal stiffeners and diaphragms, to be proposed by the fabricator and subject to agreement with the Architect and Engineer to provide an enclosure which satisfies the aesthetic and structural requirements. Refer to 3D model for extent of EWS-1c.

7.
Visually exposed HVAC supply and return ducts in the Shed, shown herein, are to be in the scope of the steel contractor to ensure continuity of appearance with primary steel. Criteria for tolerance and flatness to match that of the structural steel (see structural drawings & specifications). Plate configuration, including thickness, internal stiffeners and diaphragms, to be proposed by the fabricator and subject to agreement with the Architect and Engineer to provide an enclosure which satisfies the aesthetic and structural requirements. The mechanical ductwork carries its own self weight and is not a primary load-bearing element. Internal stiffening may not create interference with airflow requirements of the duct. Refer to 3D model.

Damian Titus
APPROVED
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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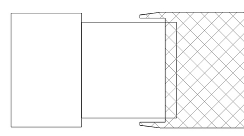
KEY PLAN



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2		50% CONSTRUCTION DOCUMENTS	08.15.2014
1		ADV. PROCUREMENT BID SET	06.16.2014

STAMP

REGISTERED ARCHITECT
RICARDO SCOFIDIO
008800
STATE OF NEW YORK

DRAWN BY YY **CHECKED BY** CB

PROJECT NUMBER
11017

TITLE
ENLARGED DRAWINGS - RETRACTABLE AIR DUCT ASSEMBLY
SCALE: 1/2" = 1'-0"

0 8 16 24

DRAWING NO.
A-524.00

B-SCAN NO.

A-524.00

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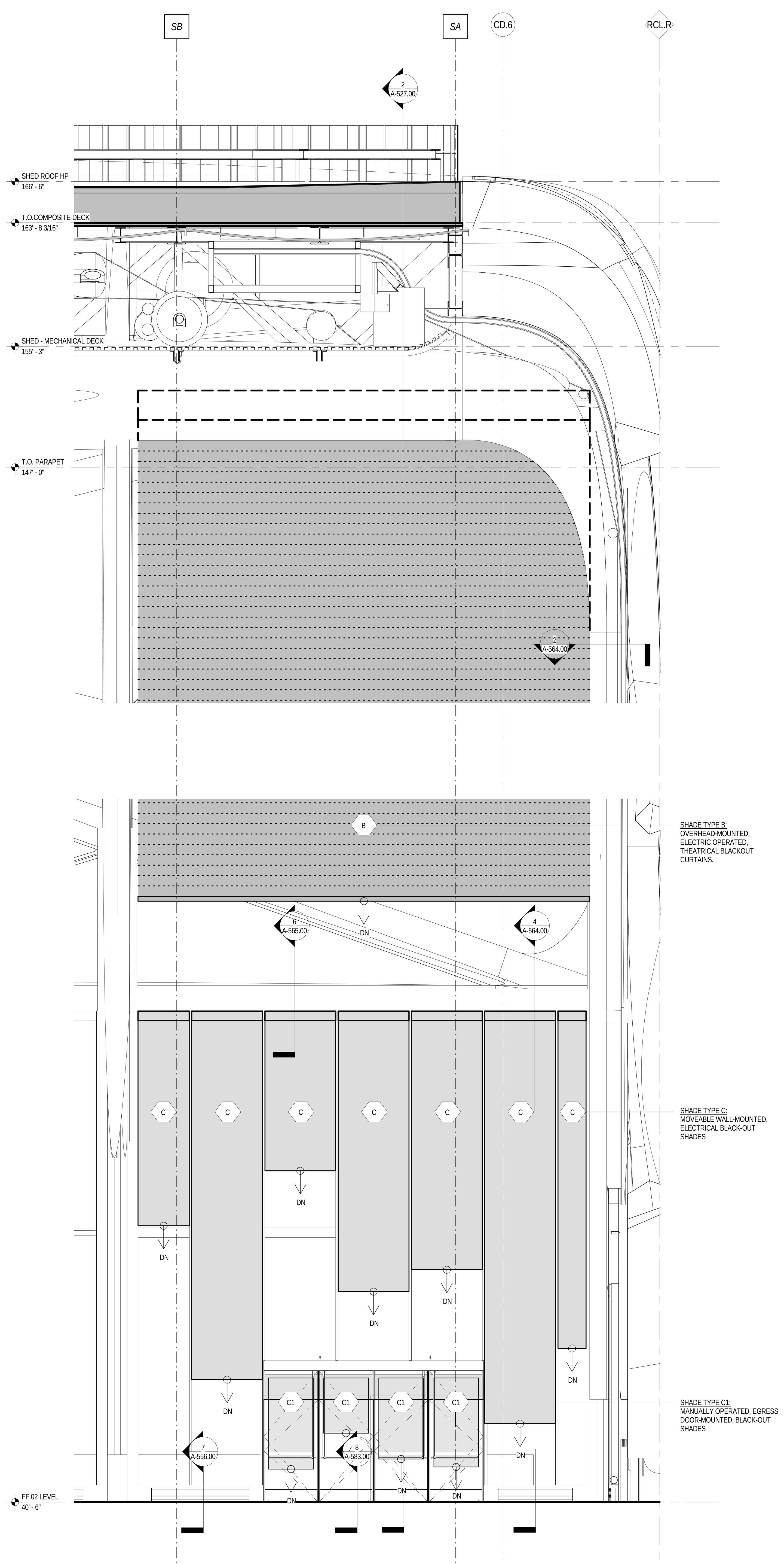
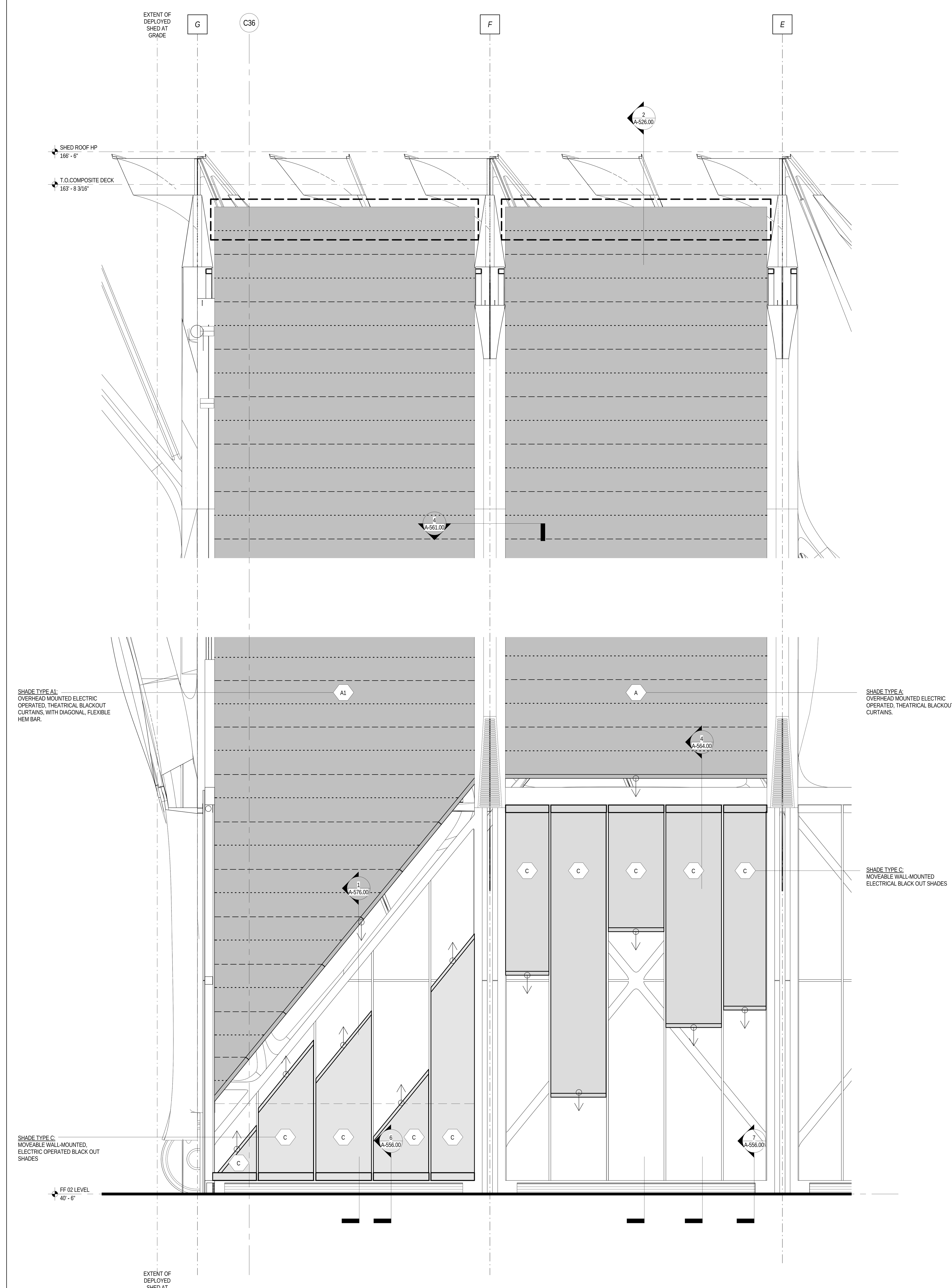
DEPT OF BLDGS 121192397 Job Number
ES235548850 Scan Code



PARTIAL ELEVATION AT EAST SHADES 1
1/4" = 1'-0"



PARTIAL ELEVATION AT NORTH/SOUTH SHADES 2
1/4" = 1'-0"

LEGEND

GENERAL NOTES

1.
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Damian Titus
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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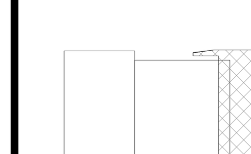

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2		50% CONSTRUCTION DOCUMENTS	08.15.2014
1		ADV. PROCUREMENT BID SET	06.16.2014

STAMP

REGISTERED ARCHITECT RICARDO SCOFIDIO 008800 STATE OF NEW YORK

DRAWN BY HS
CHECKED BY CB

PROJECT NUMBER
11017

TITLE
ENLARGED DRAWINGS - SPECIAL THEATRICAL CURTAINS

SCALE: 1/4" = 1'-0"

0 8 16 24

DRAWING NO.
A-525.00

B-SCAN NO.
A-525.00

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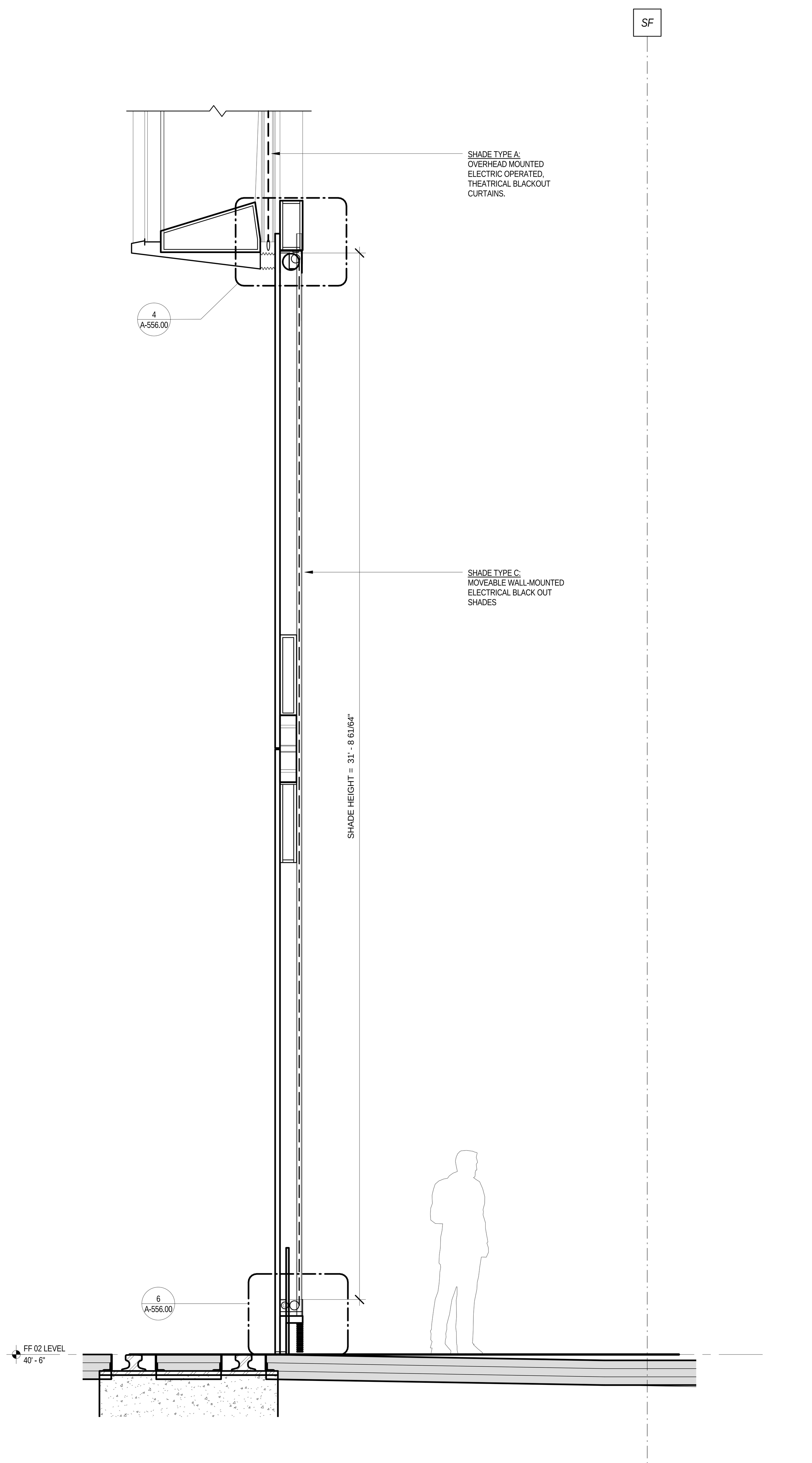
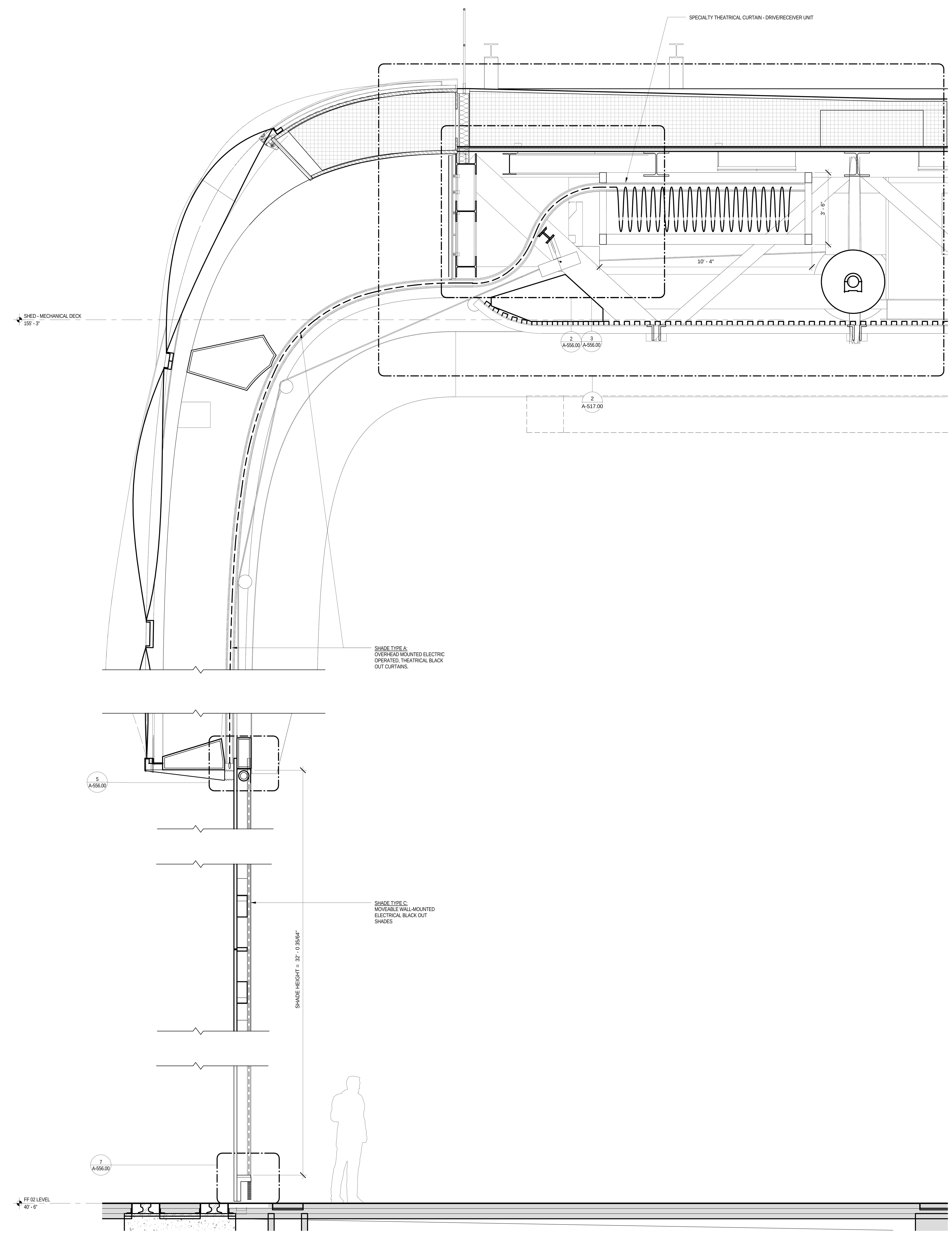


SECTION @ BOTTOM/UP CURTAINS N/S

1

1/2" = 1'-0"



SECTION @ SPECIALTY CURTAINS N

2

1/2" = 1'-0"

LEGEND

GENERAL NOTES

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Under Directive 2 change
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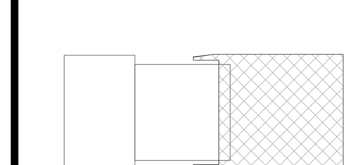
KEY PLAN



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44	33	DOB AMENDMENT 5	04.08.2016
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4	2	ADV. PROCUREMENT ADDENDUM 2	10.22.2014
2		50% CONSTRUCTION DOCUMENTS	08.15.2014
1		ADV. PROCUREMENT BID SET	06.16.2014

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REGISTERED ARCHITECT
RICARDO SCOFIDIO
008800
STATE OF NEW YORK

DRAWN BY HS **CHECKED BY** CB

PROJECT NUMBER
11017

TITLE

ENLARGED DRAWINGS - SPECIALTY THEATRICAL CURTAINS /SHADES - N/S
SCALE: 1/2" = 1'-0"

0 8 16 24

DRAWING NO.
A-526.00

B-SCAN NO.
A-526.00

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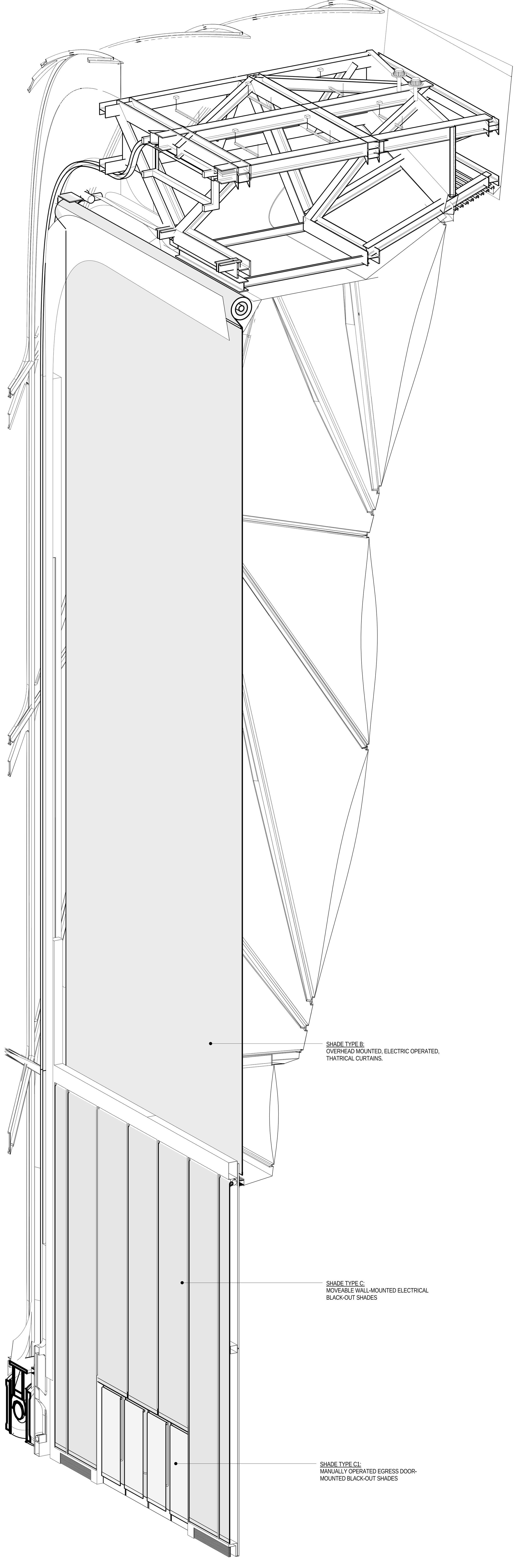
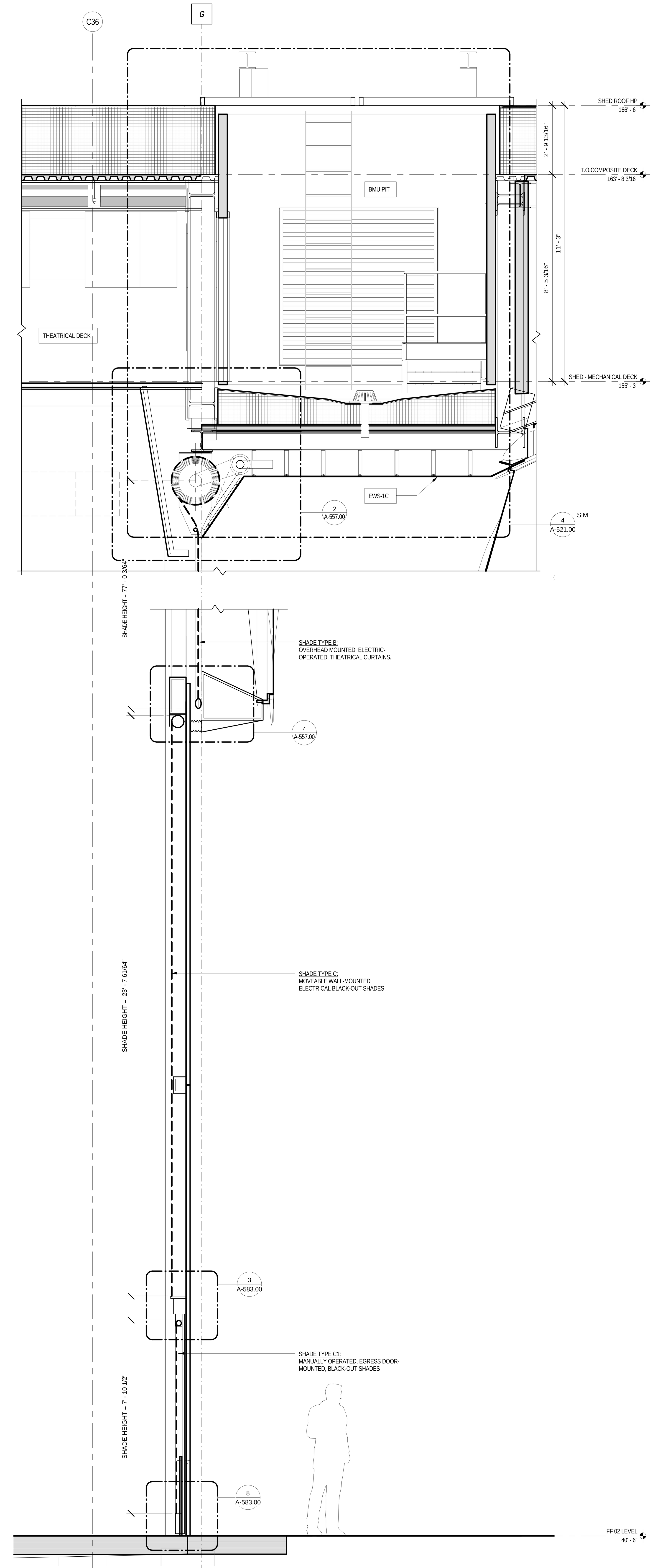
DEPT OF BLDGS 121192397 Job Number
ES385706101 Scan Code



PARTIAL AXON DIAGRAM OF SHADES EAST 1
N.T.S.



ENLARGED SECTION @ SPECIALTY CURTAINS E 2
1/2" = 1'-0"

LEGEND

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4.
Typical Node Elsewhere:
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Damian Titus
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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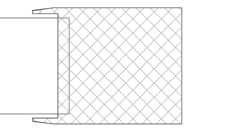

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DRAWN BY HS
CHECKED BY CB

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SCALE: 1/2" = 1'-0"

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B-SCAN NO.
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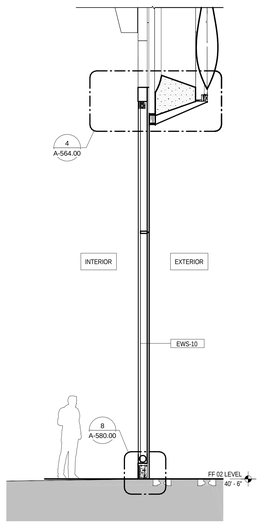
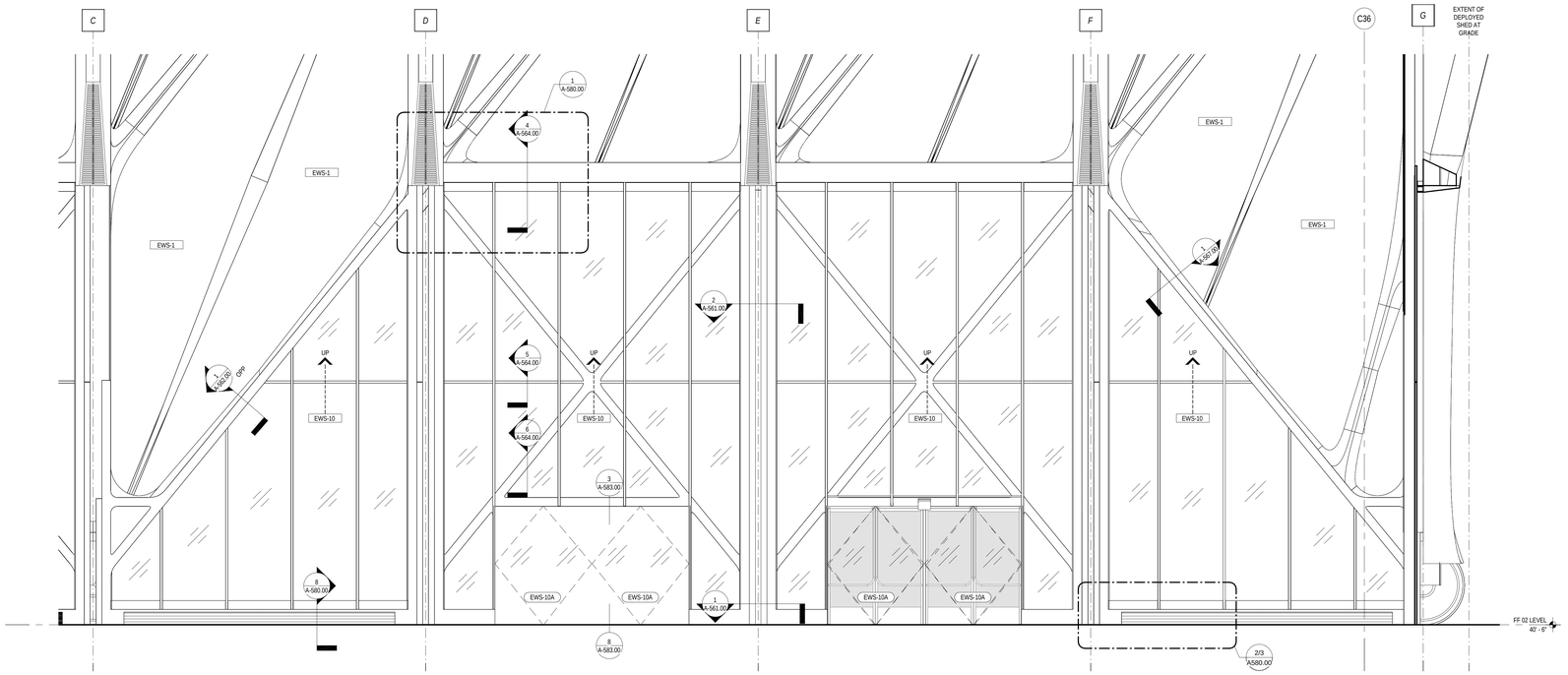
DEPT OF BLDGS 421102297 Job Number
E380211787/40 Scan Code

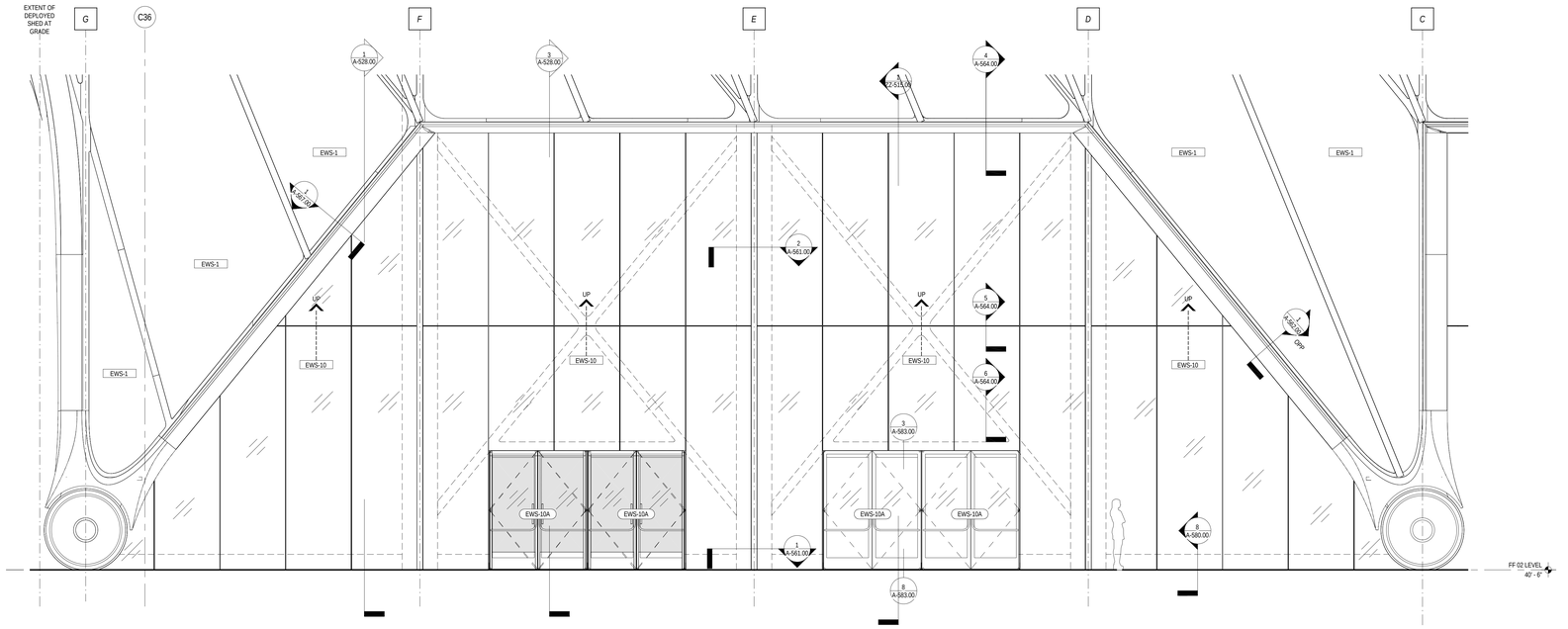


SECTION 2 @ N OPERABLE WALL | 1 | 1/4" = 1'-0"

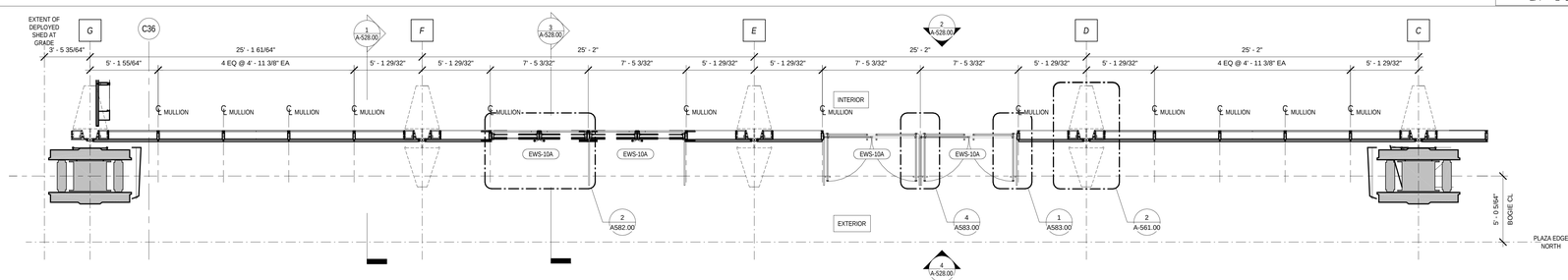


INTERIOR ELEVATION @ NORTH OPERABLE WALL | 2 | 1/4" = 1'-0"

SECTION 1 @ N OPERABLE WALL | 3 | 1/4" = 1'-0"



ENLARGED ELEVATION @ NORTH OPERABLE WALL | 4 | 1/4" = 1'-0"



ENLARGED PLAN @ NORTH OPERABLE WALL | 5 | 1/4" = 1'-0"

LEGEND

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DRAWN BY MM
CHECKED BY CB

PROJECT NUMBER
11017

TITLE
ENLARGED DRAWINGS - NORTH OPERABLE WALL

SCALE: 1/4" = 1'-0"

0 8 16 24

DRAWING NO.
A-528.00

B-SCAN NO.
A-528.00

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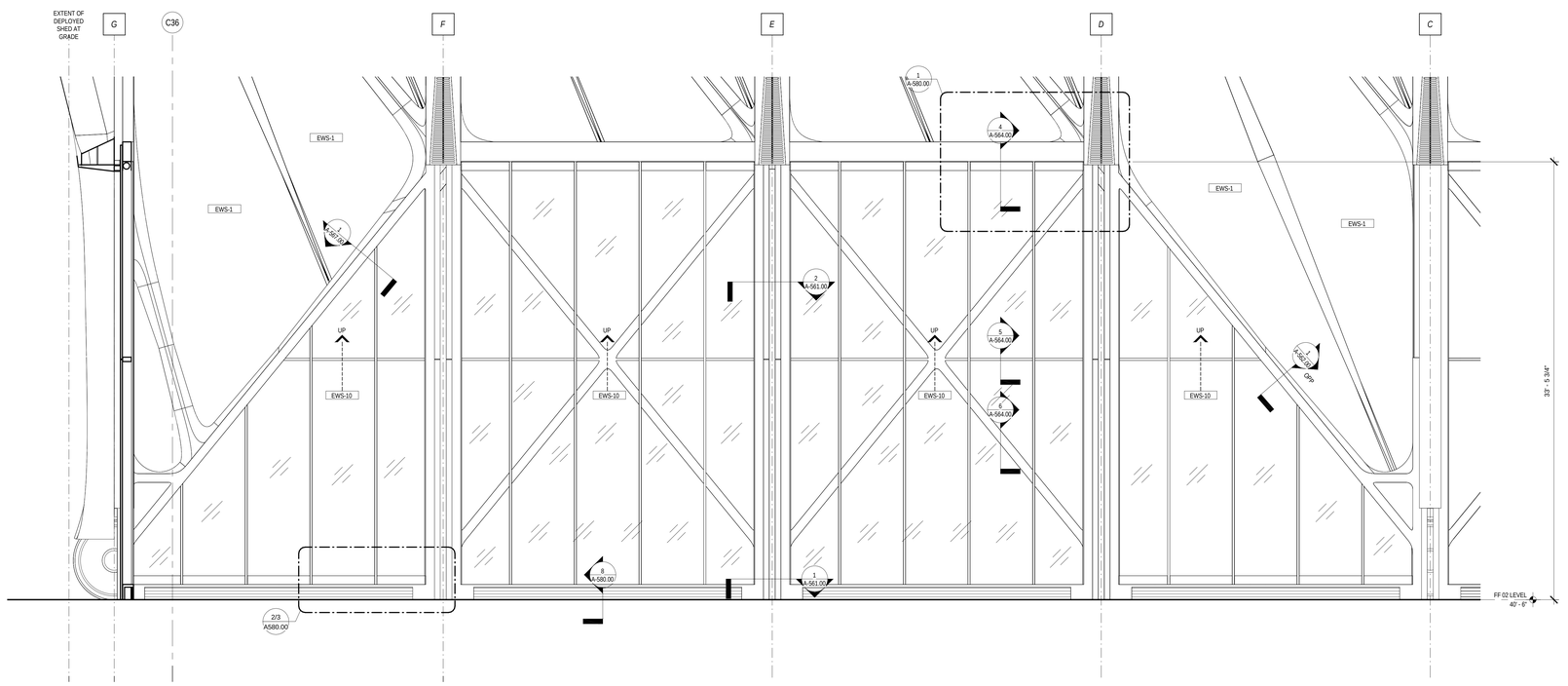
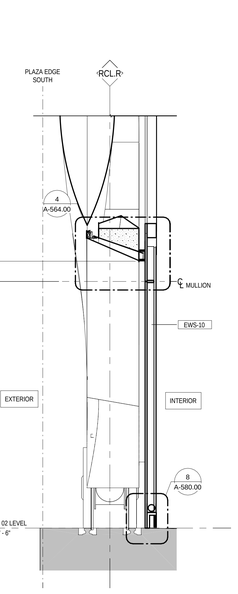


INTERIOR ELEVATION @ SOUTH OPERABLE WALL

1

1/4" = 1'-0"



SECTION@ S OPERABLE WALL

2

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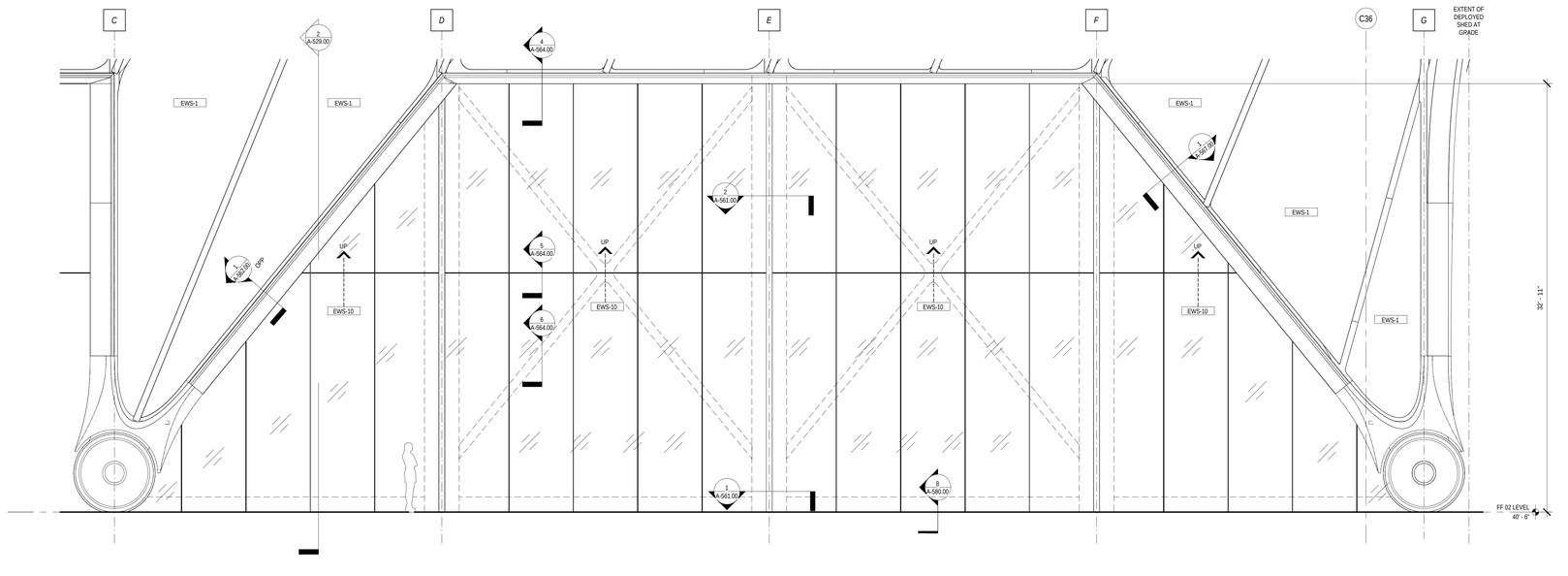

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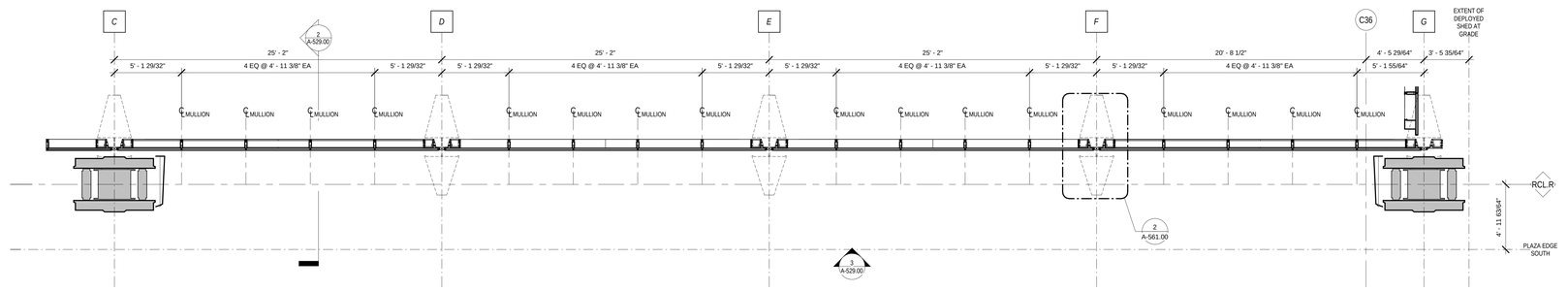

ENLARGED PLAN @ SOUTH OPERABLE WALL

4

1/4" = 1'-0"

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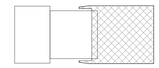

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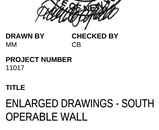

DRAWN BY MM
CHECKED BY CB

PROJECT NUMBER
11017

TITLE
ENLARGED DRAWINGS - SOUTH OPERABLE WALL

SCALE: 1/4" = 1'-0"

0 8 16 24

DRAWING NO.
A-529.00

B-SCAN NO.
A-529.00

168 of 291

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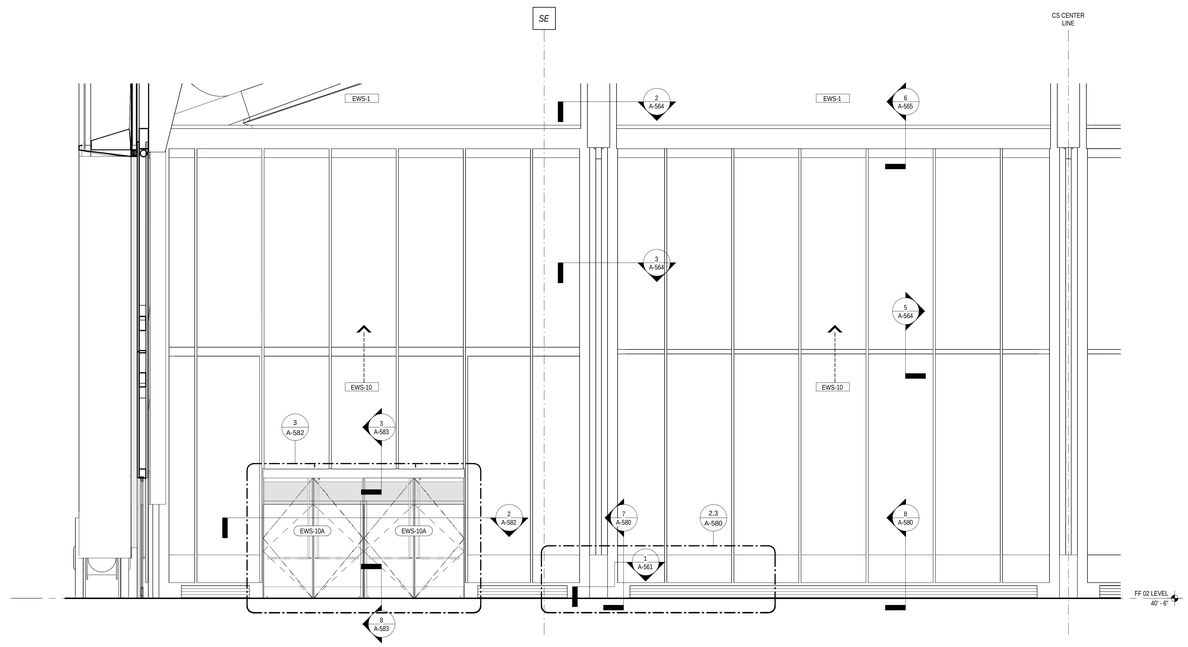
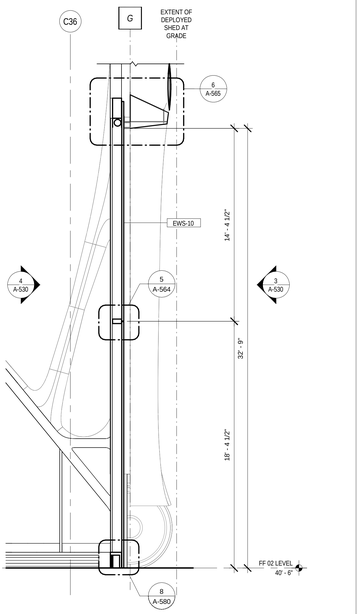
DEPT OF BLDGS 421301297 Job Number
ES1438952B Scan Code



INTERIOR ELEVATION AT EAST OPERABLE WALL

3

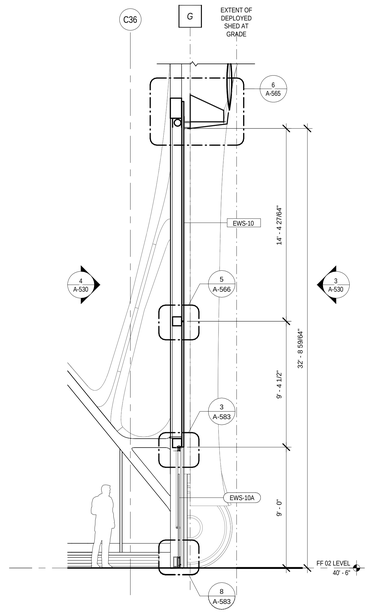
1/4" = 1'-0"



SECTION 1 AT OPERABLE WALL E

1

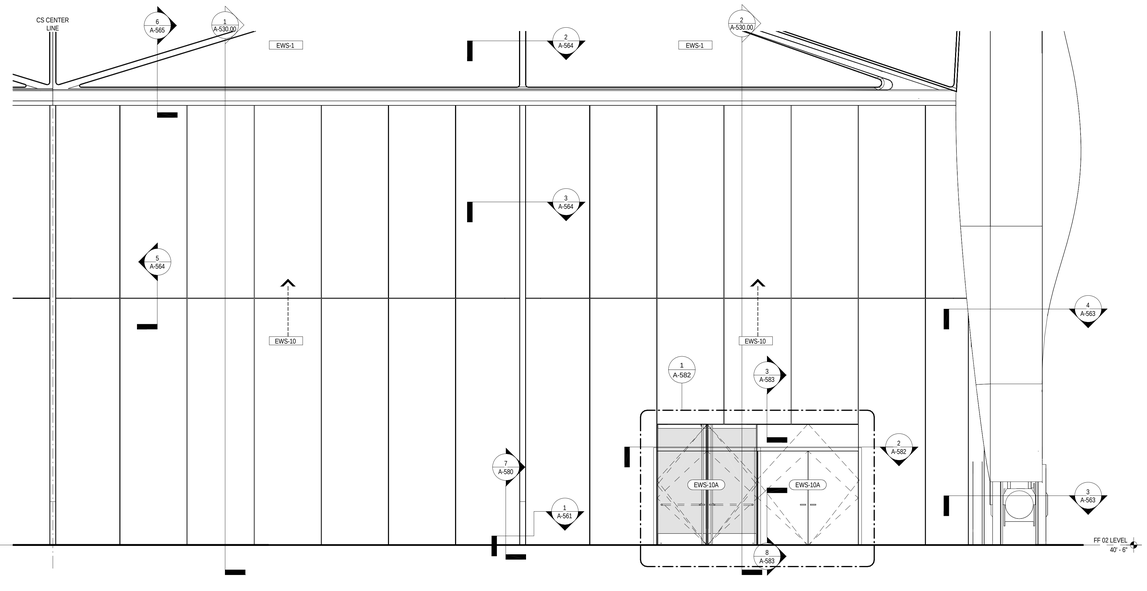
1/4" = 1'-0"



SECTION 2 AT OPERABLE WALL E

2

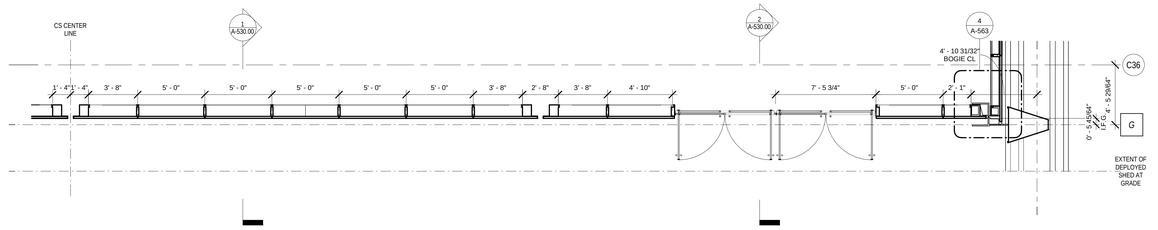
1/4" = 1'-0"



EXTERIOR ELEVATION AT EAST OPERABLE WALL

4

1/4" = 1'-0"



ENLARGED PLAN - OPERABLE DOOR E

5

1/4" = 1'-0"

LEGEND

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3.
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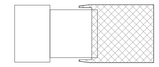
KEY PLAN



ISSUE		PRINTING	DATE
44	33	DOB AMENDMENT 5	04.08.2016
13		DOB AMENDMENT 1	08.03.2015
10	4	100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINDARY DOB SUBMISSION	12.10.2014
2		50% CONSTRUCTION DOCUMENTS	08.15.2014
1		ADV. PROCUREMENT BID SET	06.16.2014

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DRAWN BY MM
CHECKED BY CB

PROJECT NUMBER 11017

TITLE

ENLARGED DRAWINGS - OPERABLE DOORS E

SCALE: 1/4" = 1'-0"

0 8 16 24

DRAWING NO.

A-530.00

B-SCAN NO.

A-530.00

169 of 291

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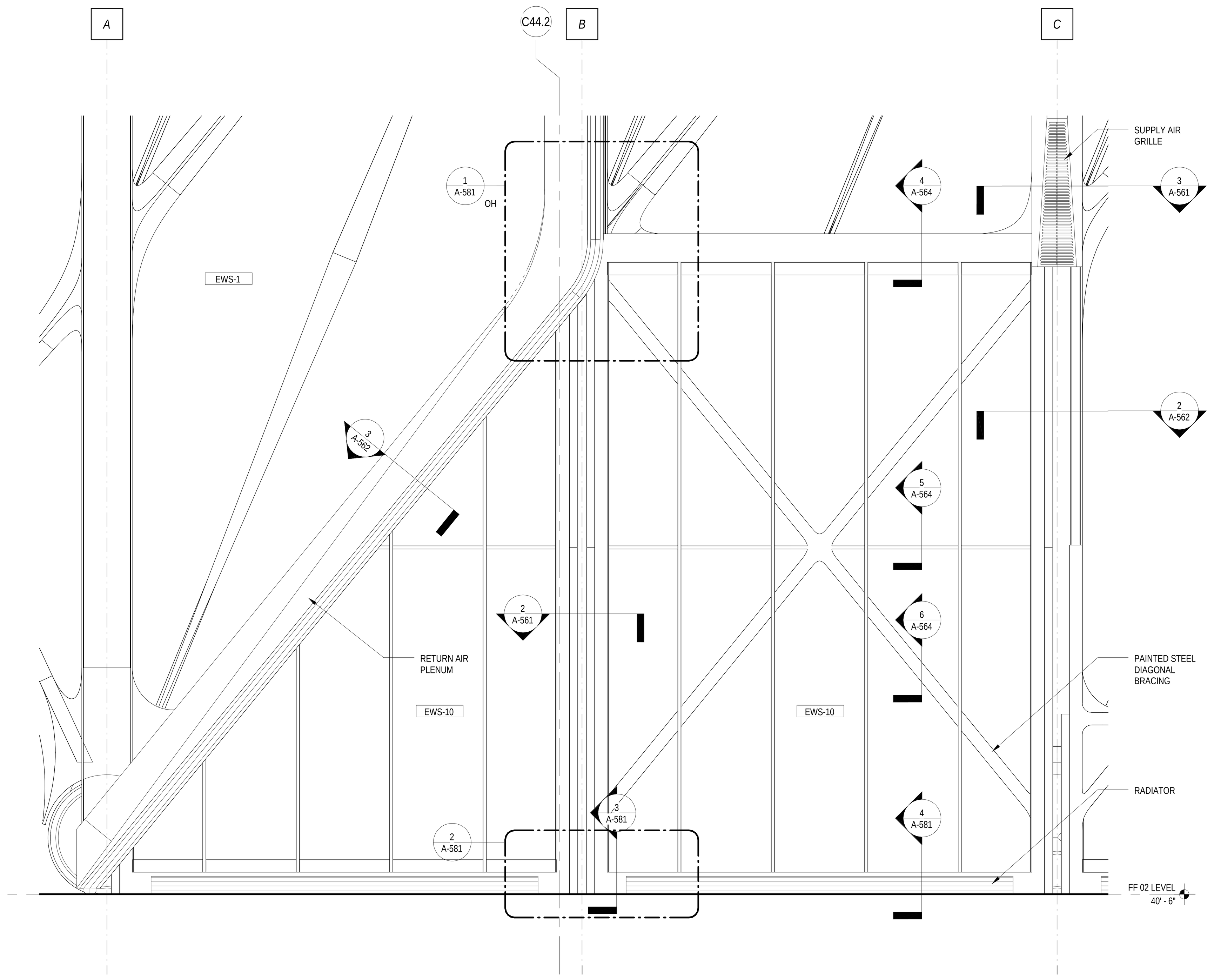
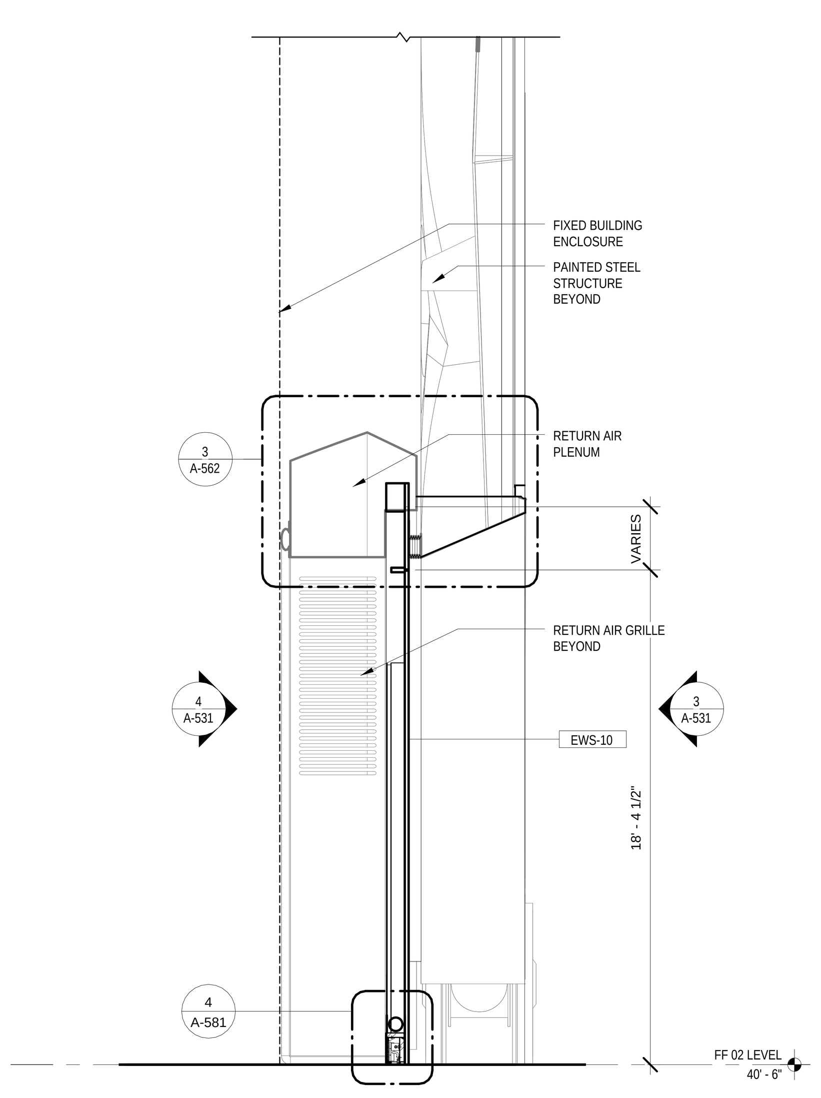
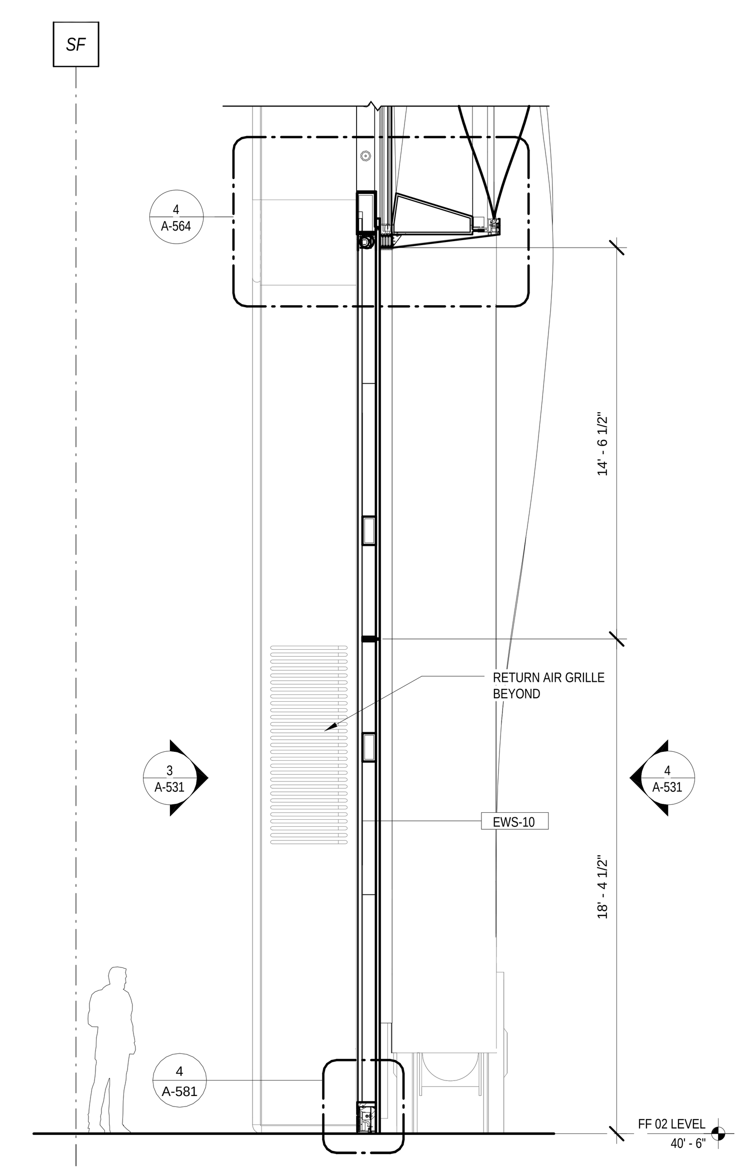
DEPT OF BLDGS 121192397 Job Number
ES118063743 Scan Code



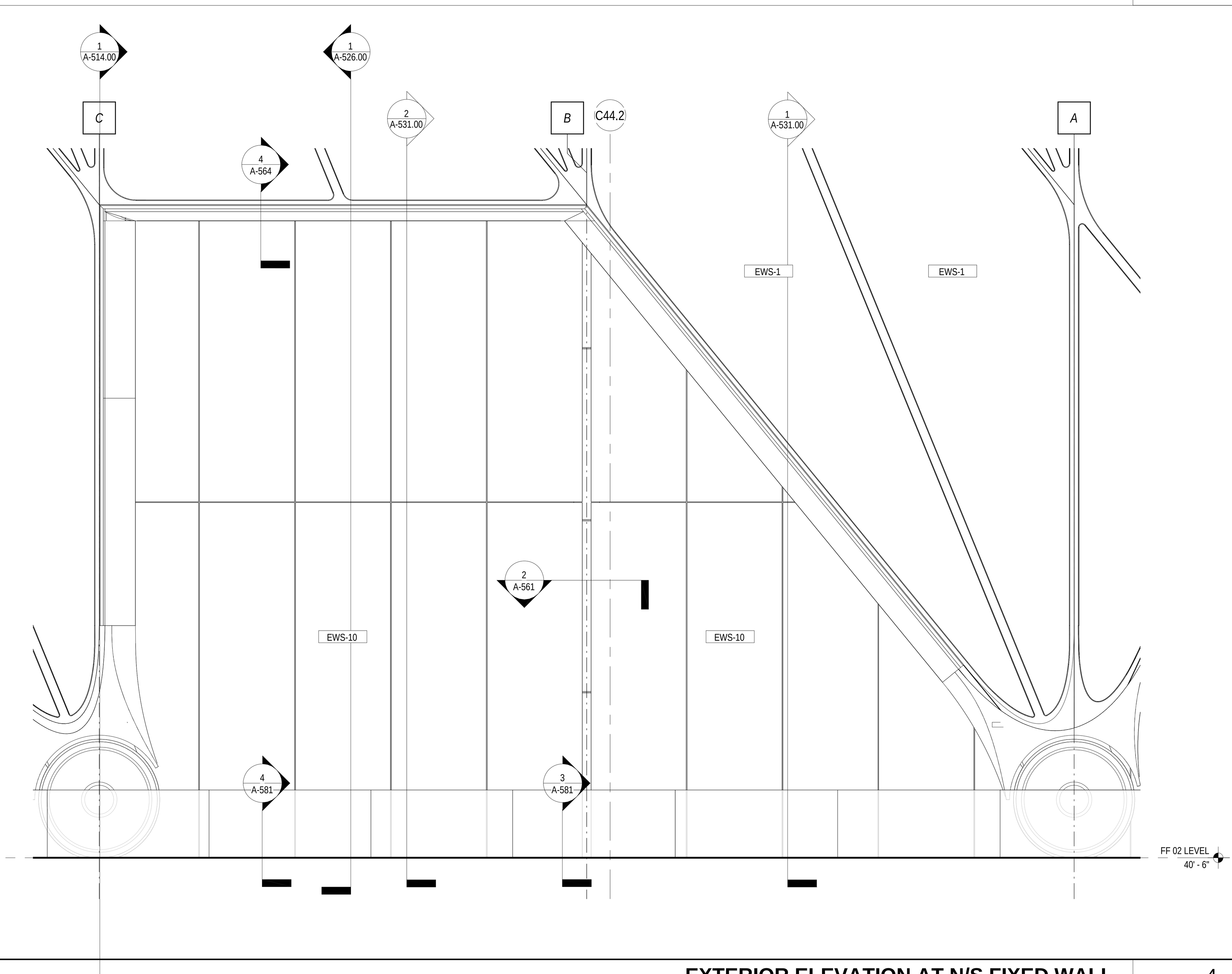
INTERIOR ELEVATION AT N/S FIXED WALL 3
1/4" = 1'-0"



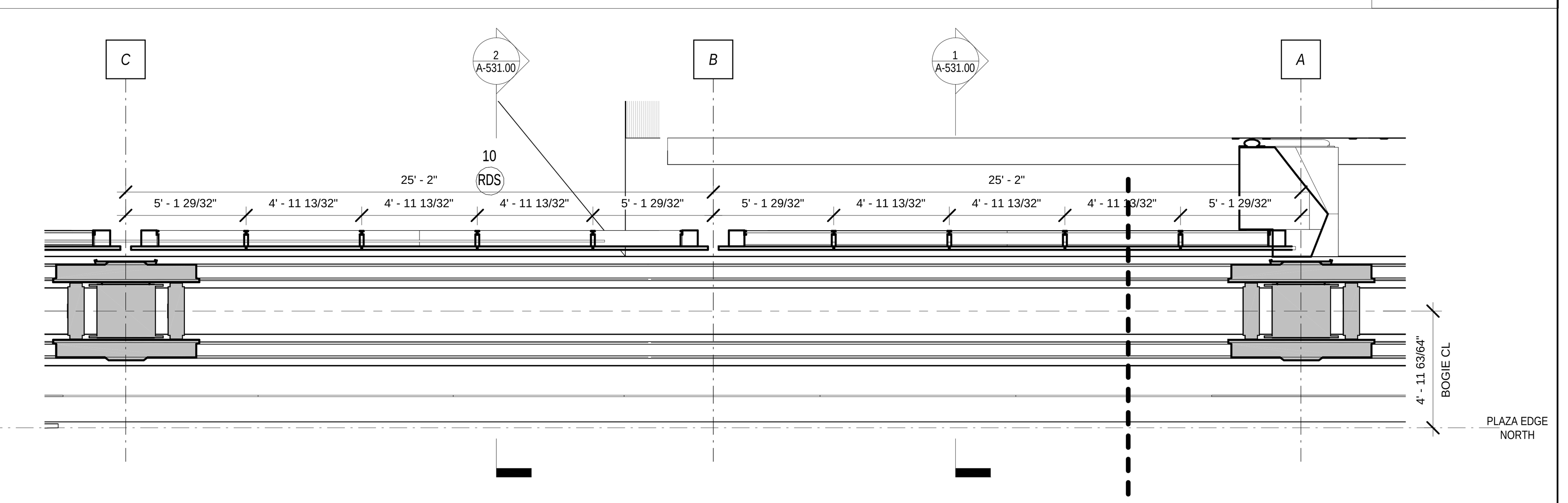
SECTION 1 AT FIXED WALL 1
1/4" = 1'-0"



SECTION 2 AT FIXED WALL 2
1/4" = 1'-0"



EXTERIOR ELEVATION AT N/S FIXED WALL 4
1/4" = 1'-0"



ENLARGED PLAN - FIXED WALL N 5
1/4" = 1'-0"

LEGEND

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Damian Titus
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AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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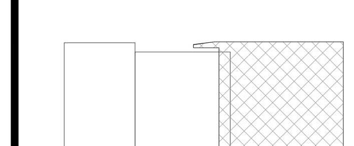

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1		ADV. PROCUREMENT BID SET	06.16.2014

STAMP

REGISTERED ARCHITECT RICARDO SCOFIDIO 008800 STATE OF NEW YORK

DRAWN BY MM
CHECKED BY CB

PROJECT NUMBER 11017

TITLE
ENLARGED DRAWINGS - NON OPERABLE DOORS N/S

SCALE: 1/4" = 1'-0"
0 8 16 24

DRAWING NO.
A-531.00

B-SCAN NO.
A-531.00

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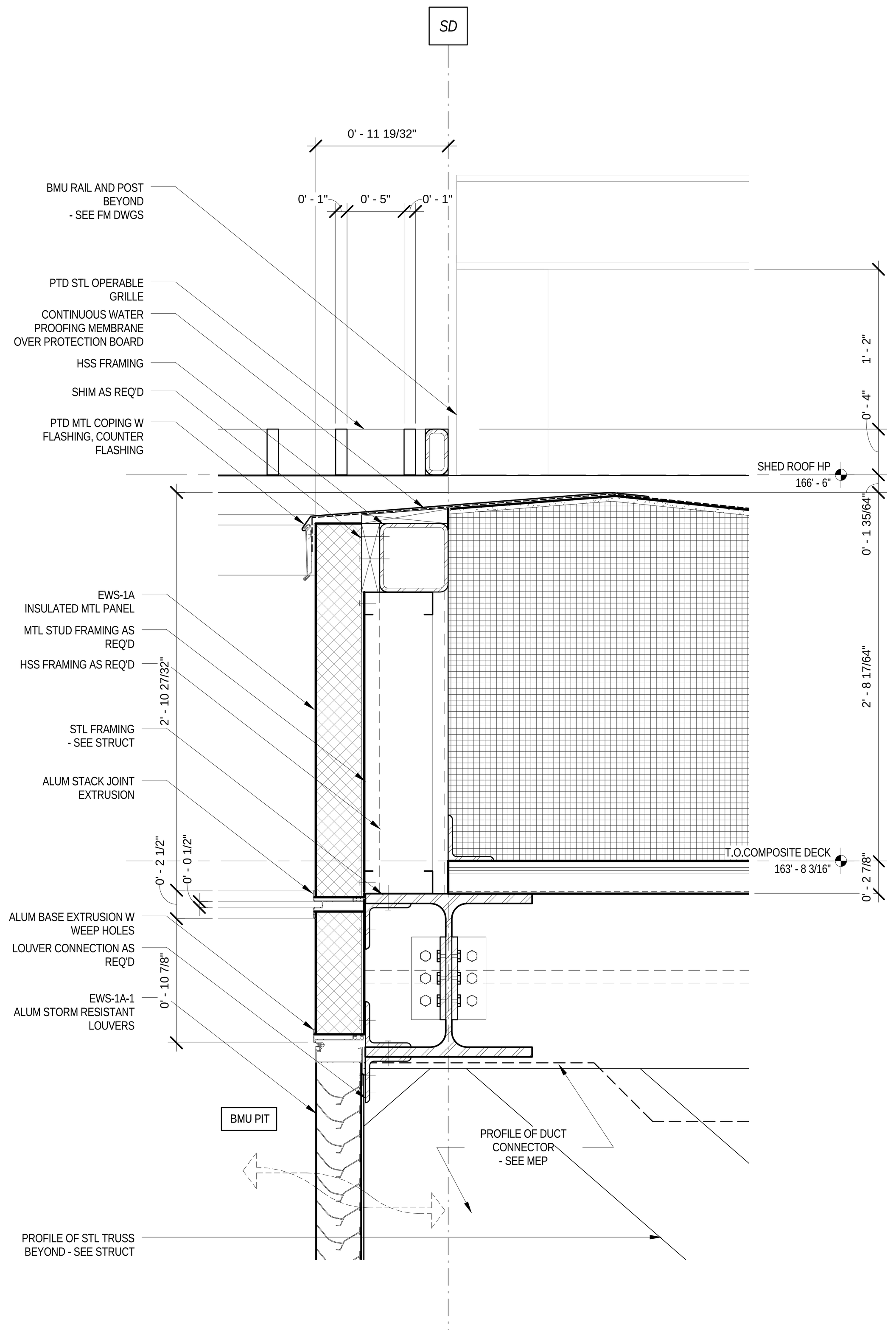
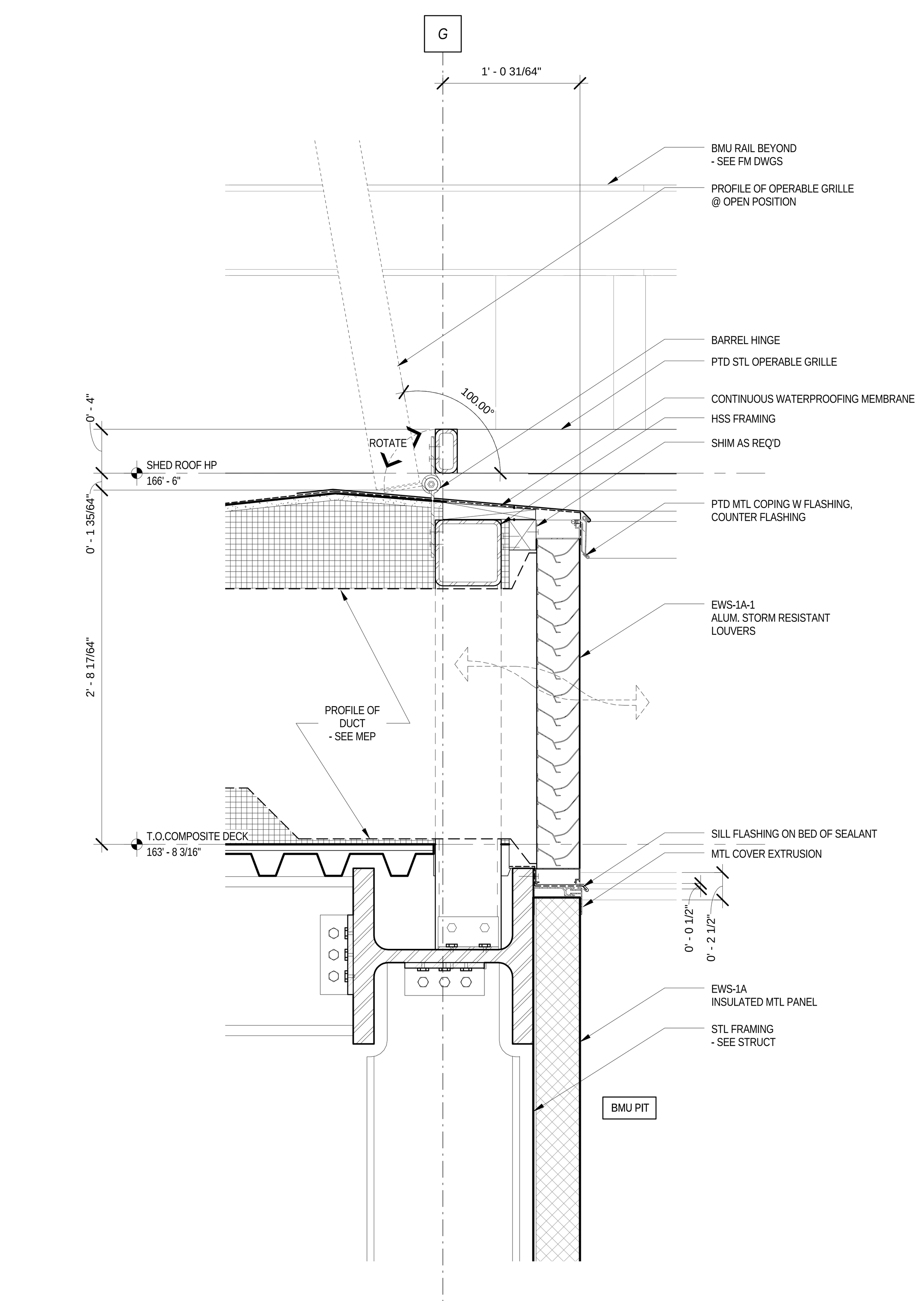


DETAIL 2 @ BMU PIT LOUVER 1
1 1/2" = 1'-0"



DETAIL @ BMU PIT LOUVER 2
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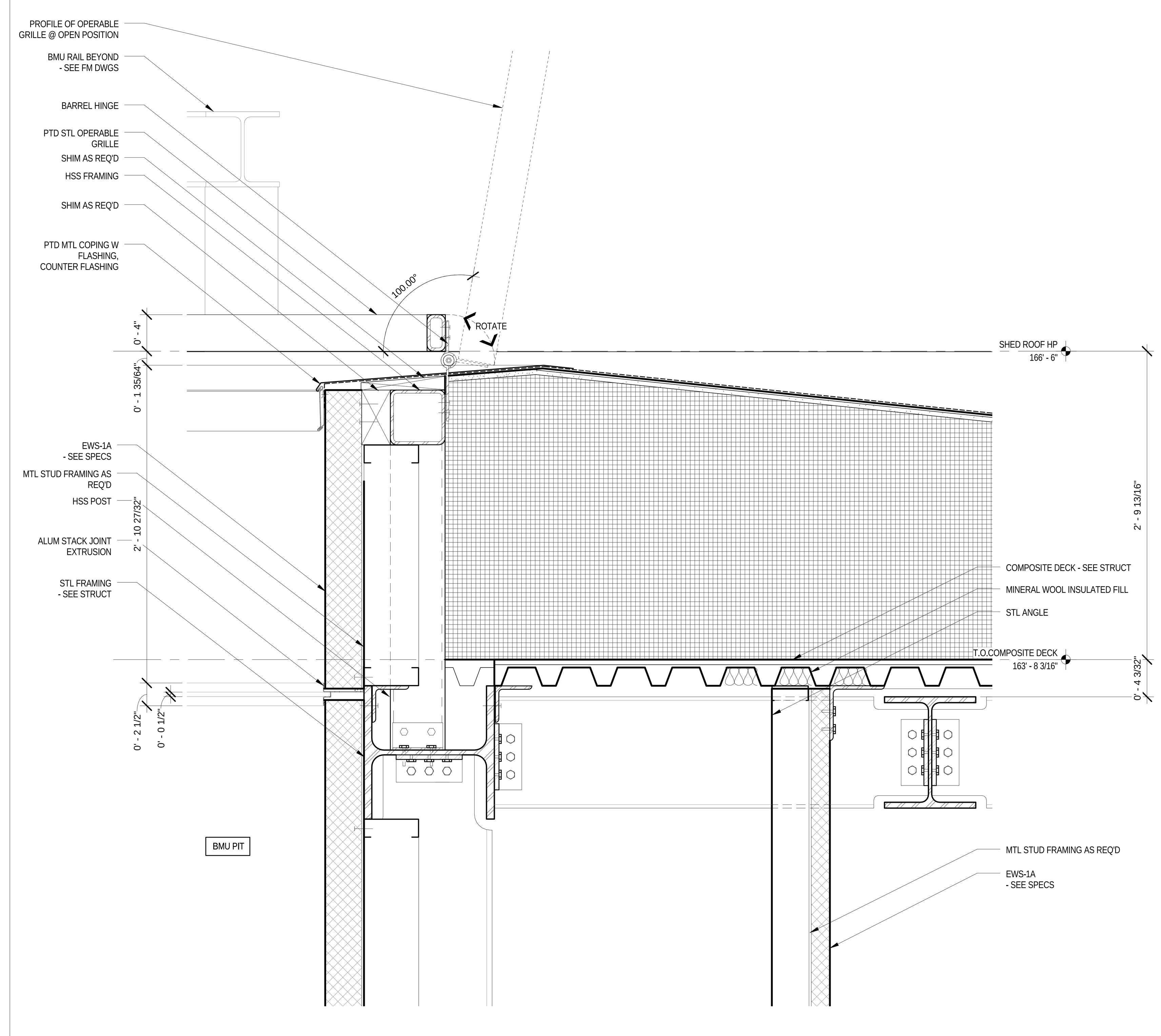
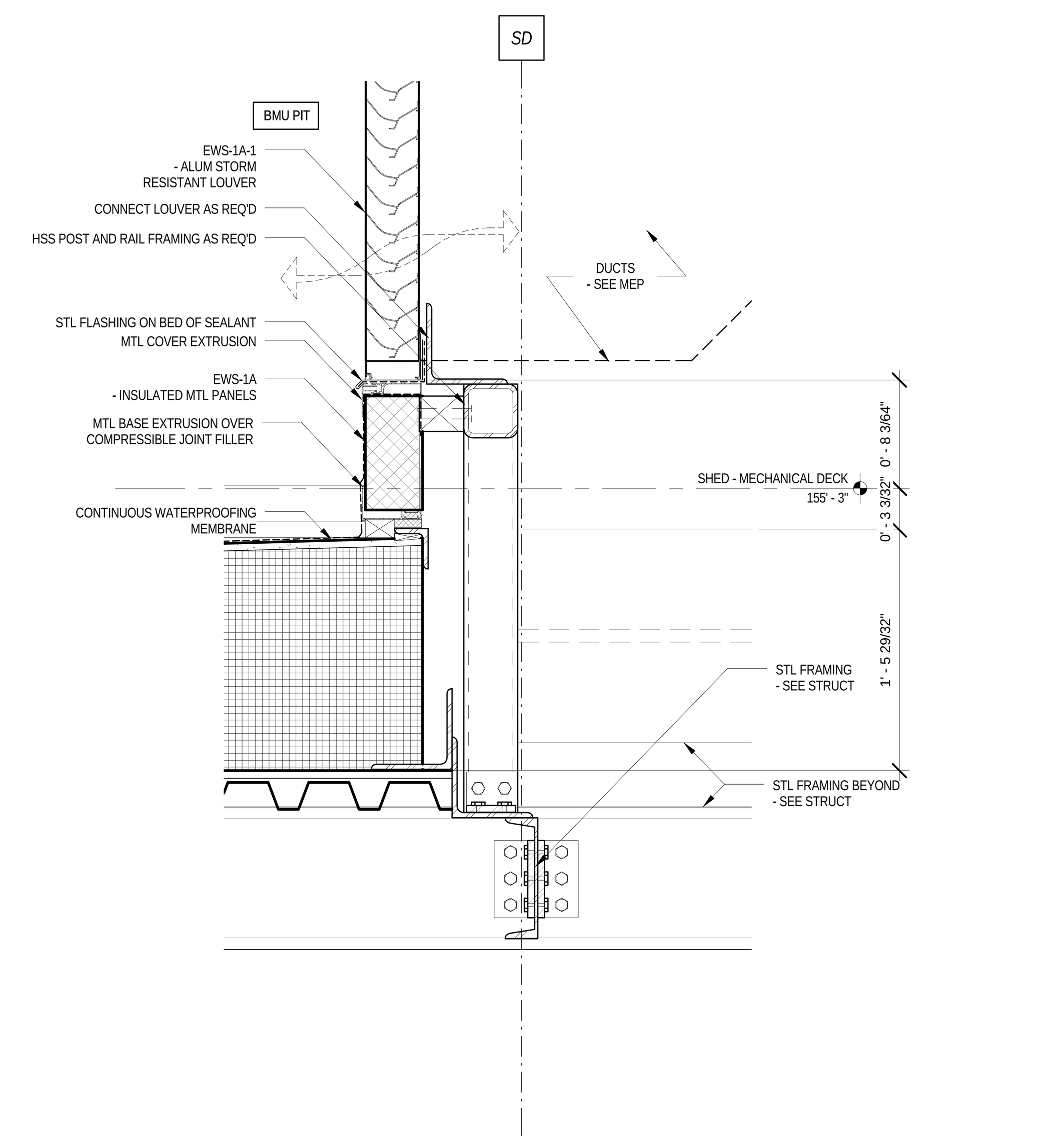
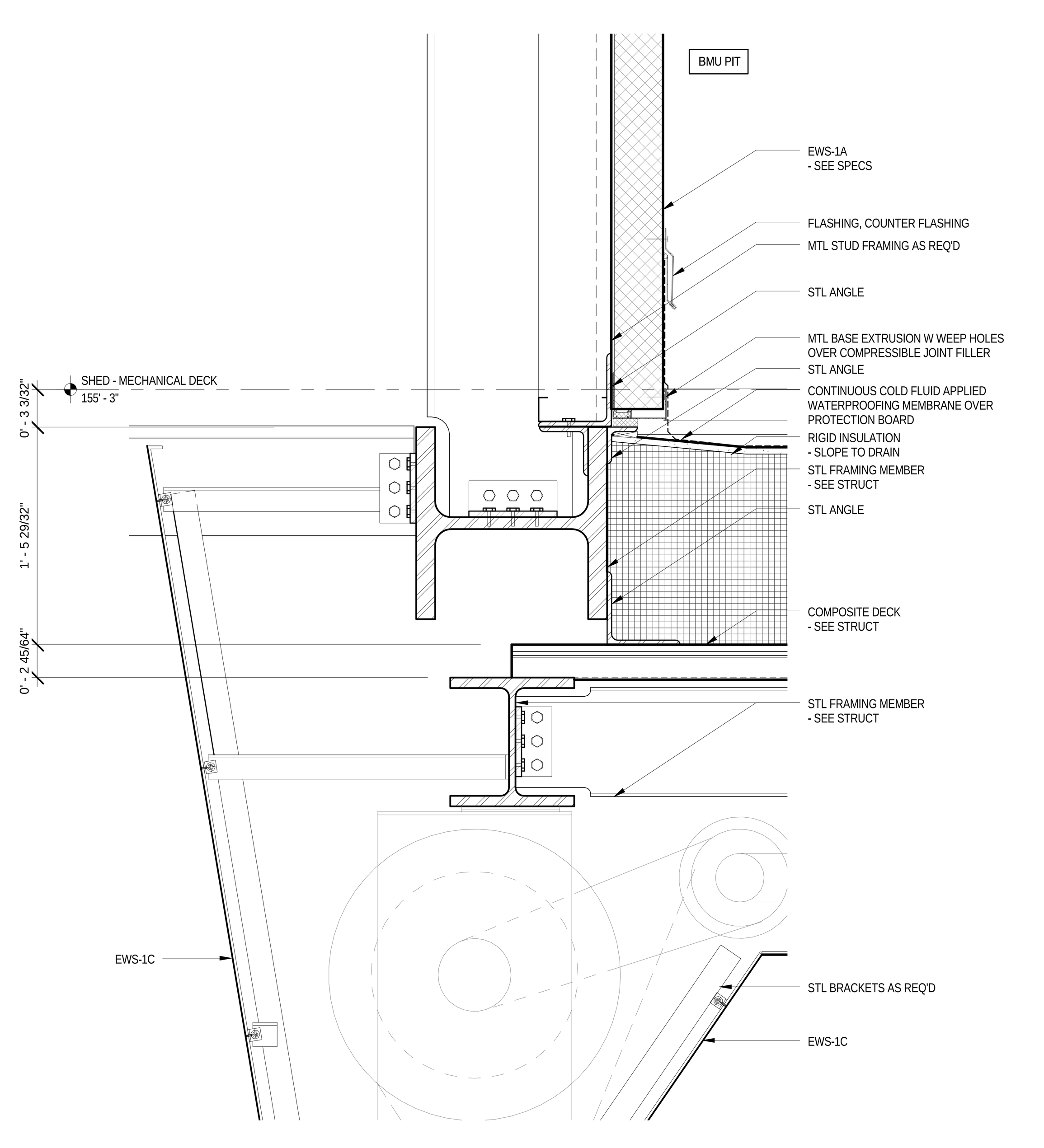


DETAIL @ BMU PIT TYP 3
1 1/2" = 1'-0"



DETAIL 3 @ BMU PIT LOUVER BASE 4
1 1/2" = 1'-0"



DETAIL @ BMU PIT BASE 5
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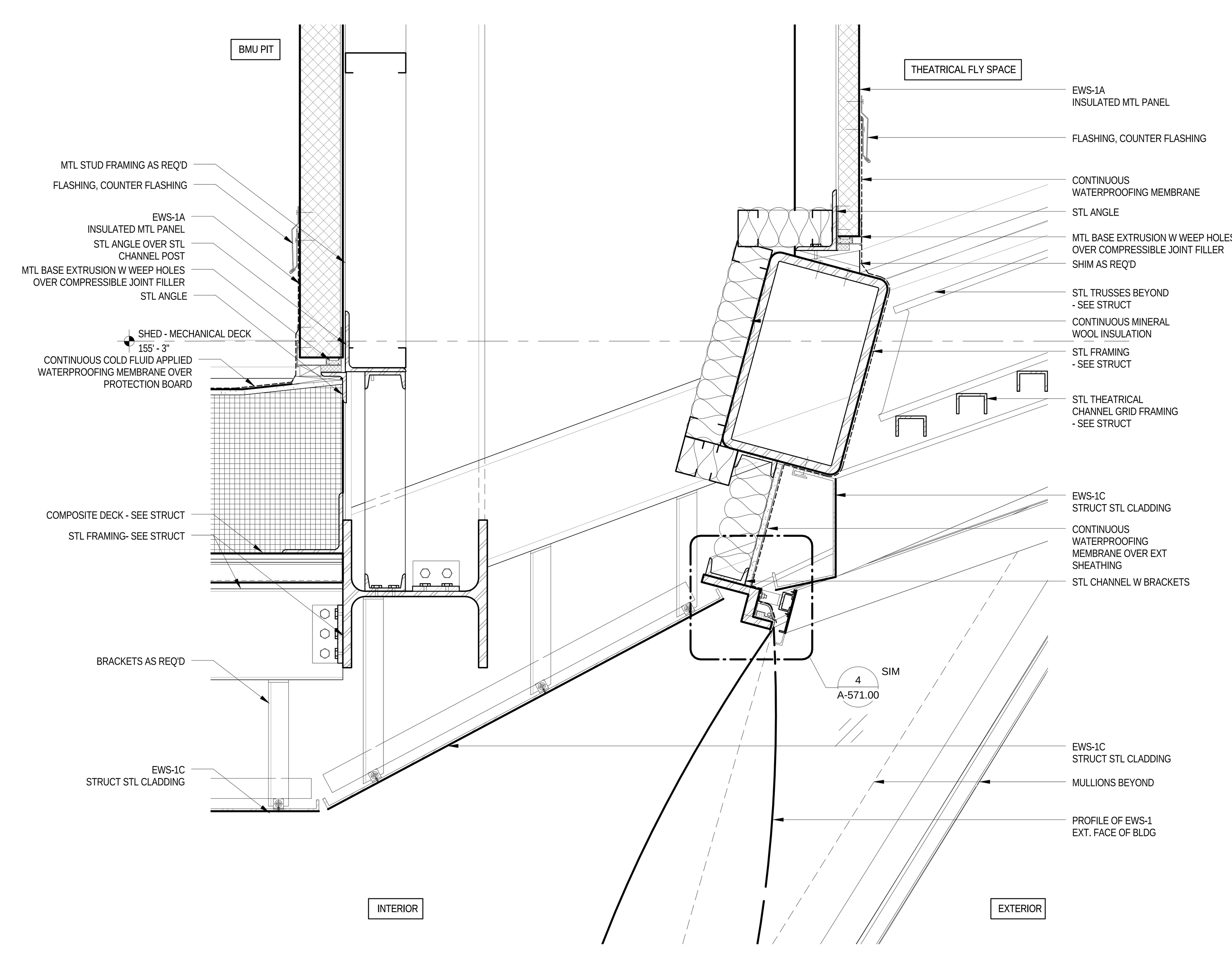

DETAIL @ BMU PIT BASE1 6
1 1/2" = 1'-0"

LEGEND

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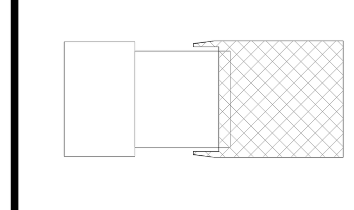
KEY PLAN



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2		50% CONSTRUCTION DOCUMENTS	08.15.2014
1		ADV. PROCUREMENT BID SET	06.16.2014

STAMP
REGISTERED ARCHITECT
RICARDO SCOFIDIO
008800
STATE OF NEW YORK

DRAWN BY YY
CHECKED BY CB

PROJECT NUMBER
11017

TITLE
DETAILS - THEATRICAL DECK EAST BMU PIT

SCALE: 1 1/2" = 1'-0"
0 8 16 24

DRAWING NO.
A-550.00

B-SCAN NO.
A-550.00

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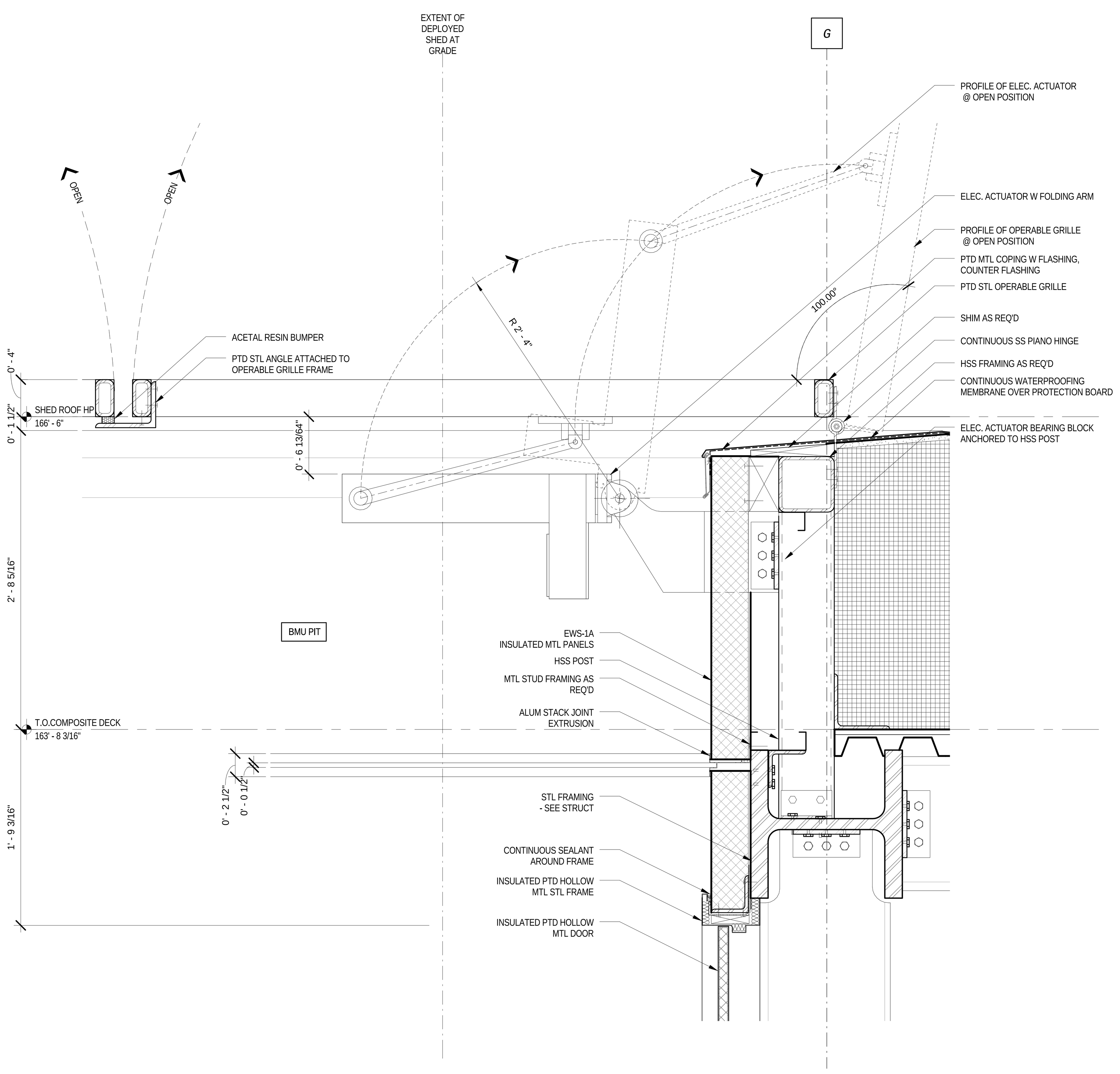
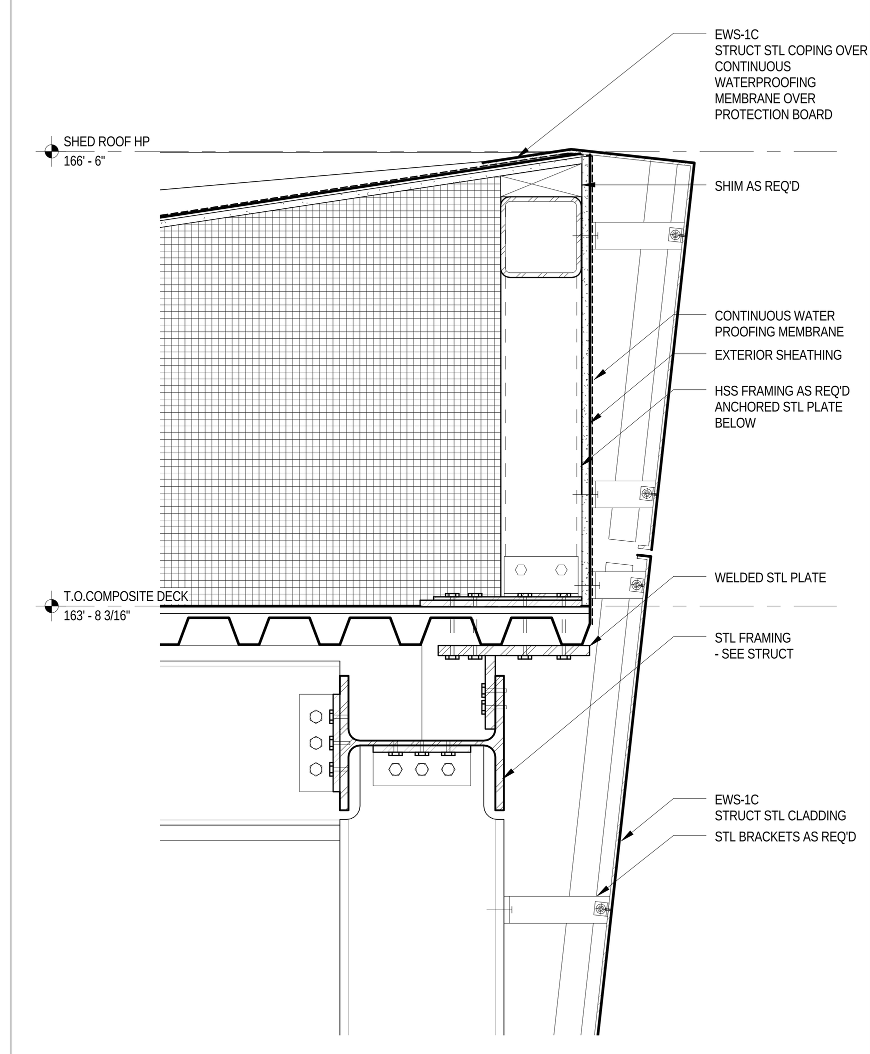
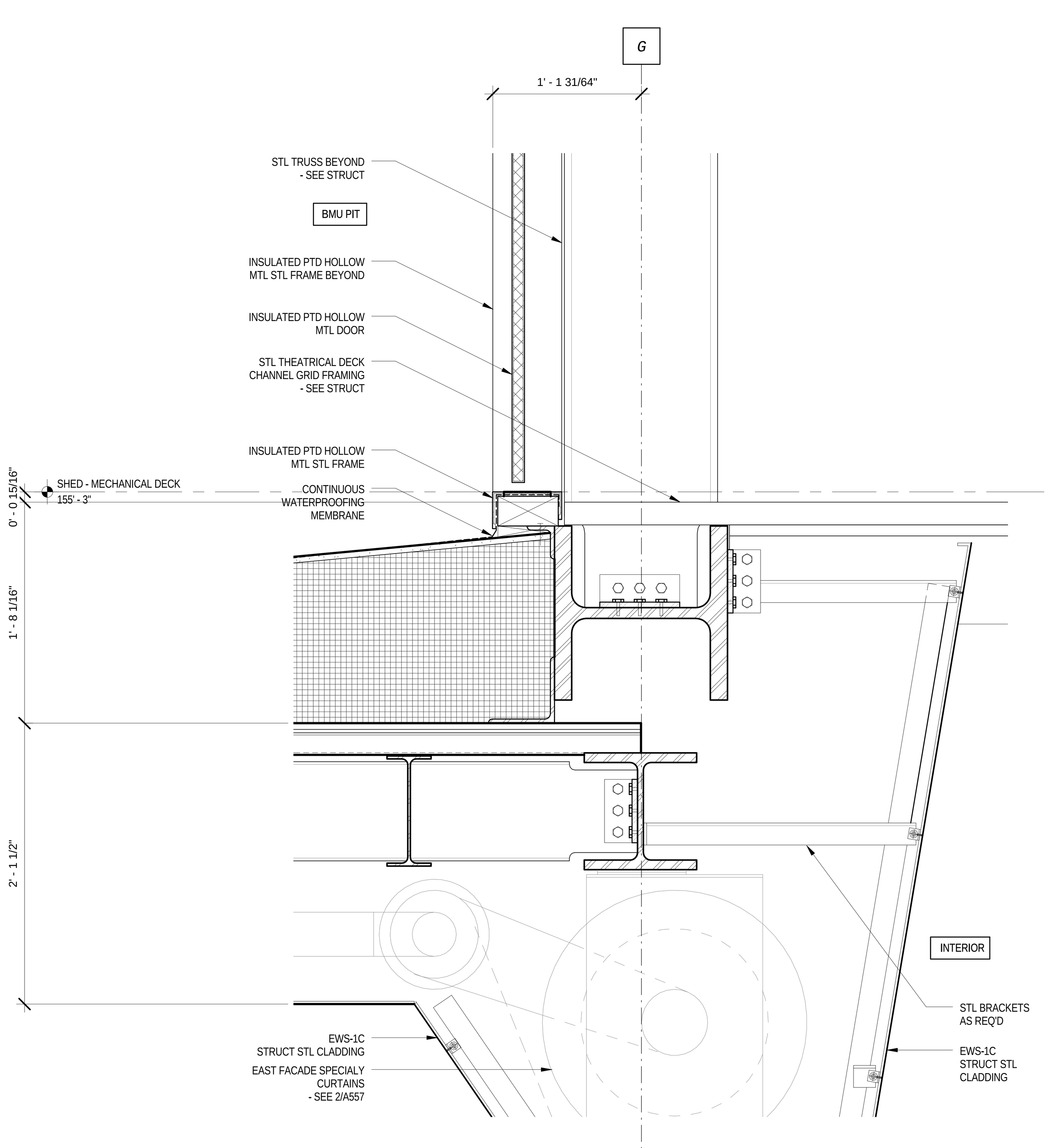
DEPT OF BLDGS 121192397 Job Number
ES170431845 Scan Code



DETAIL @ BMU PIT DOOR HEAD AND ELEC. ACTUATOR 1 — 1 1/2" = 1'-0"



DETAIL @ EAST ROOF EDGE 3 — 1 1/2" = 1'-0"



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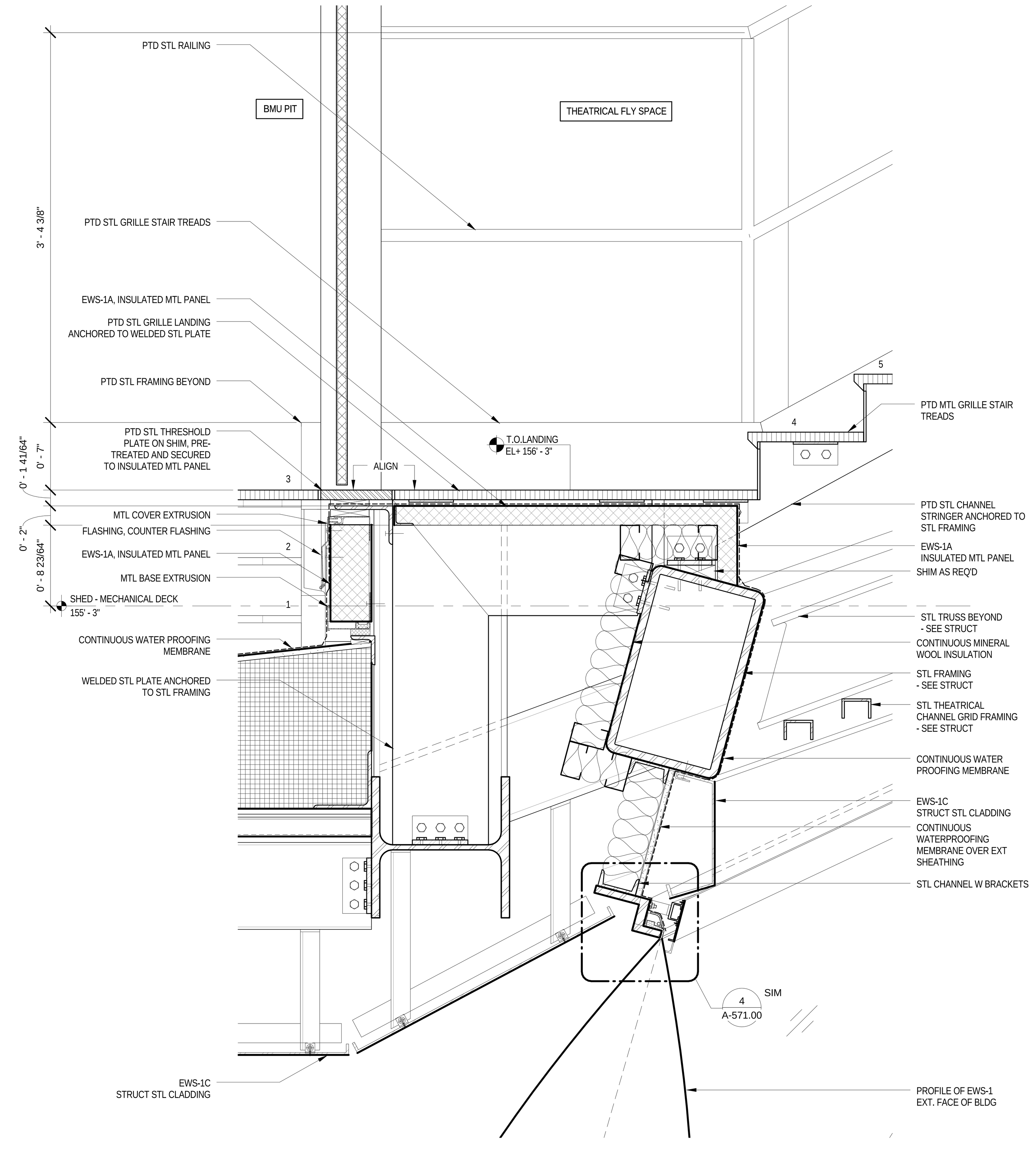
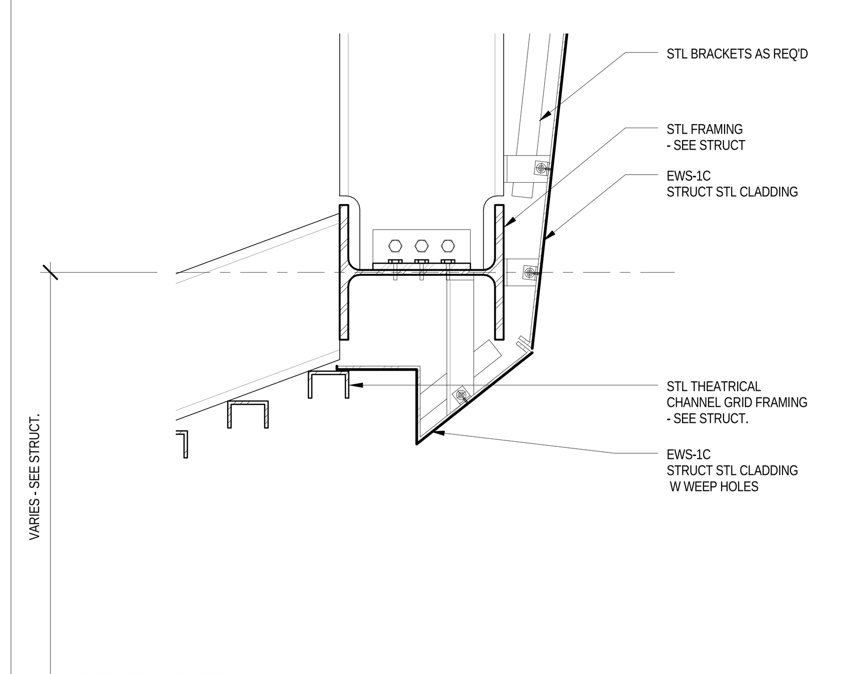


DETAIL 1@ BMU PIT STAIR 5 — 1 1/2" = 1'-0"



DETAIL @ EAST BLDG EDGE 6 — 1 1/2" = 1'-0"

LEGEND

GENERAL NOTES

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Damian Titus
APPROVED
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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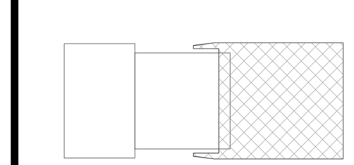

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DRAWN BY YY
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PROJECT NUMBER
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SCALE: 1 1/2" = 1'-0"
0 8 16 24

DRAWING NO.
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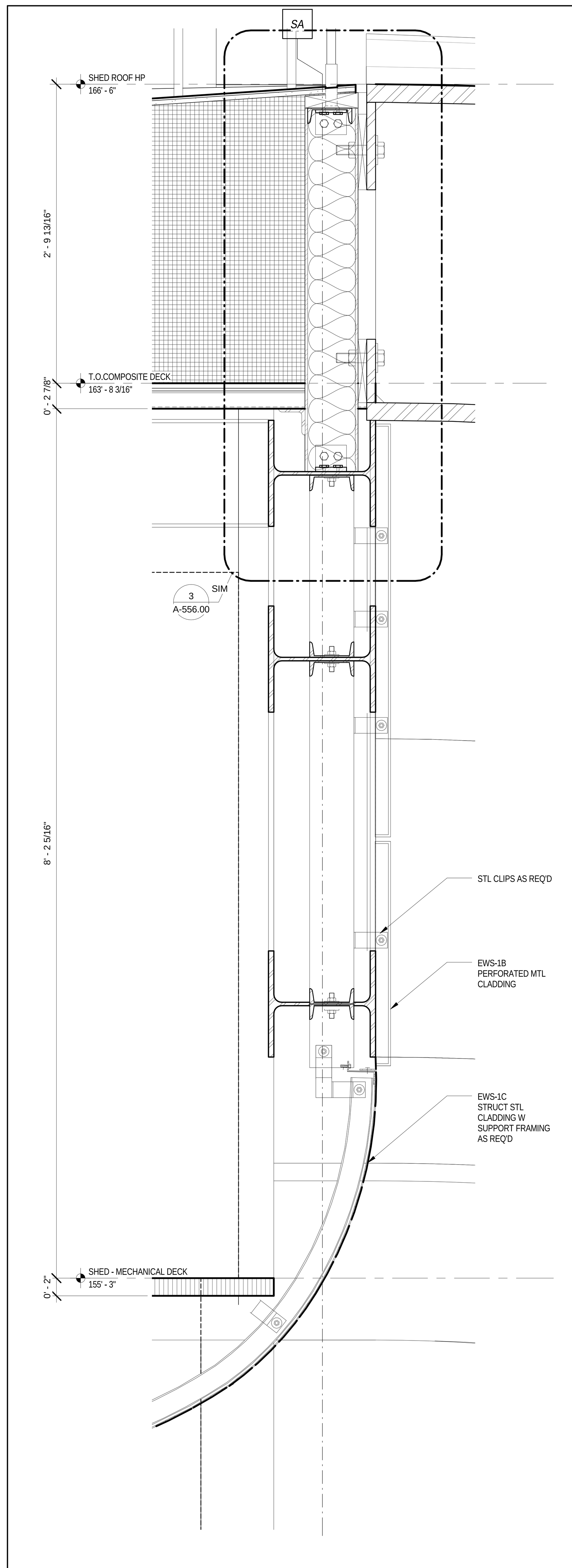
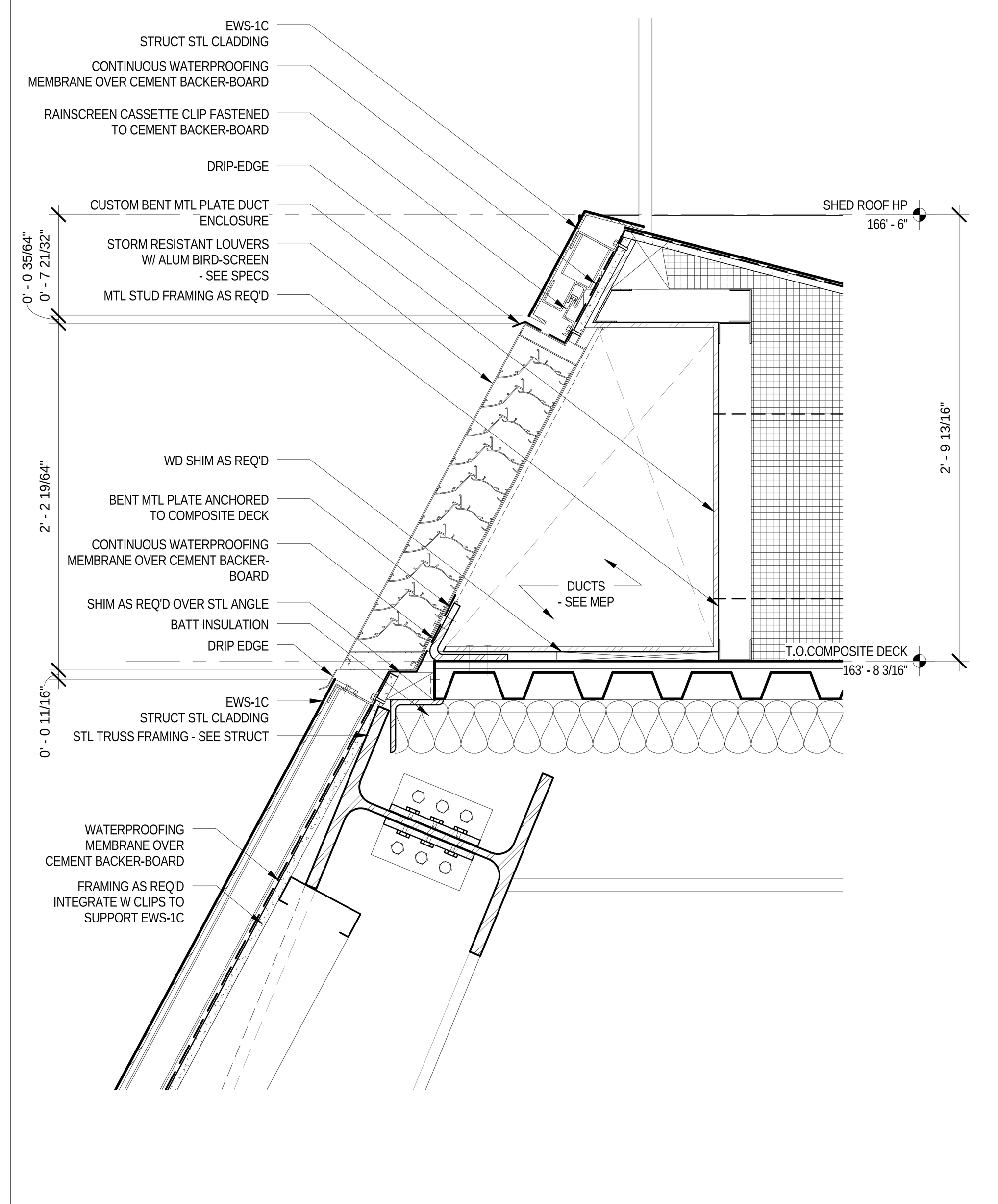
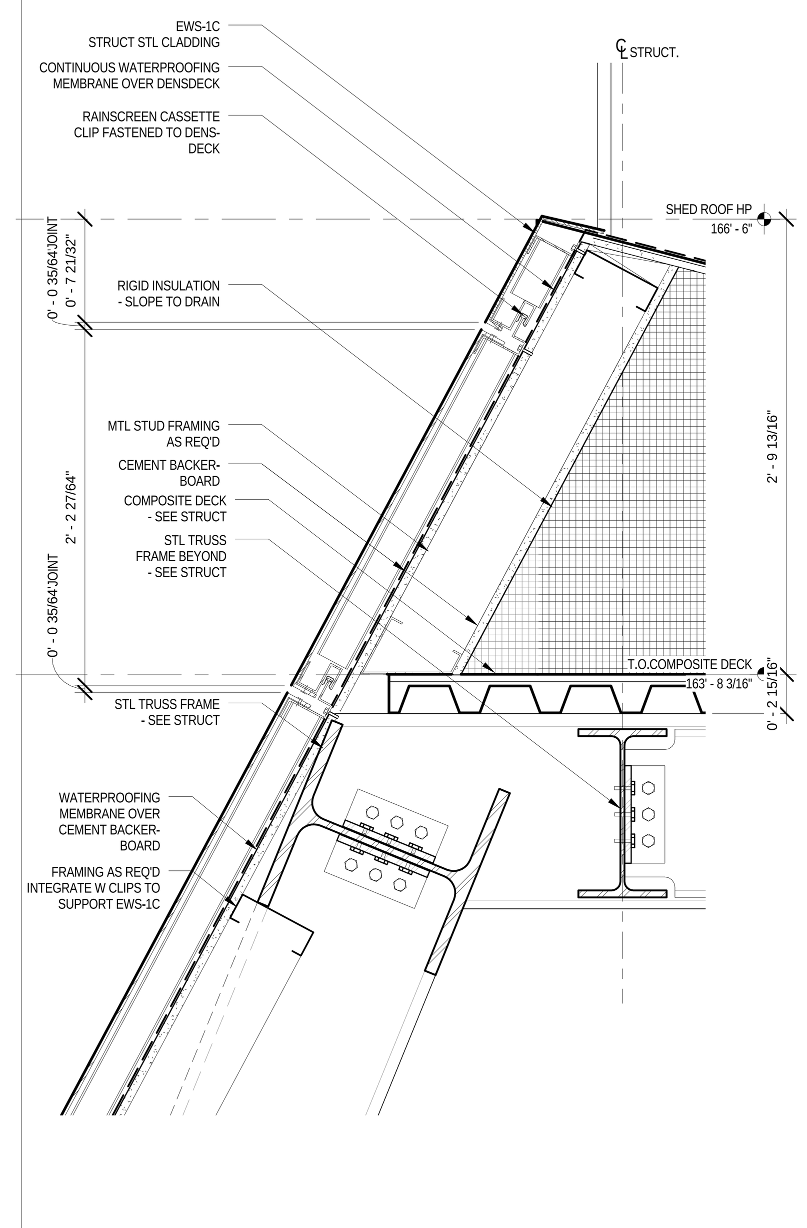
ES701612406 Scan Code



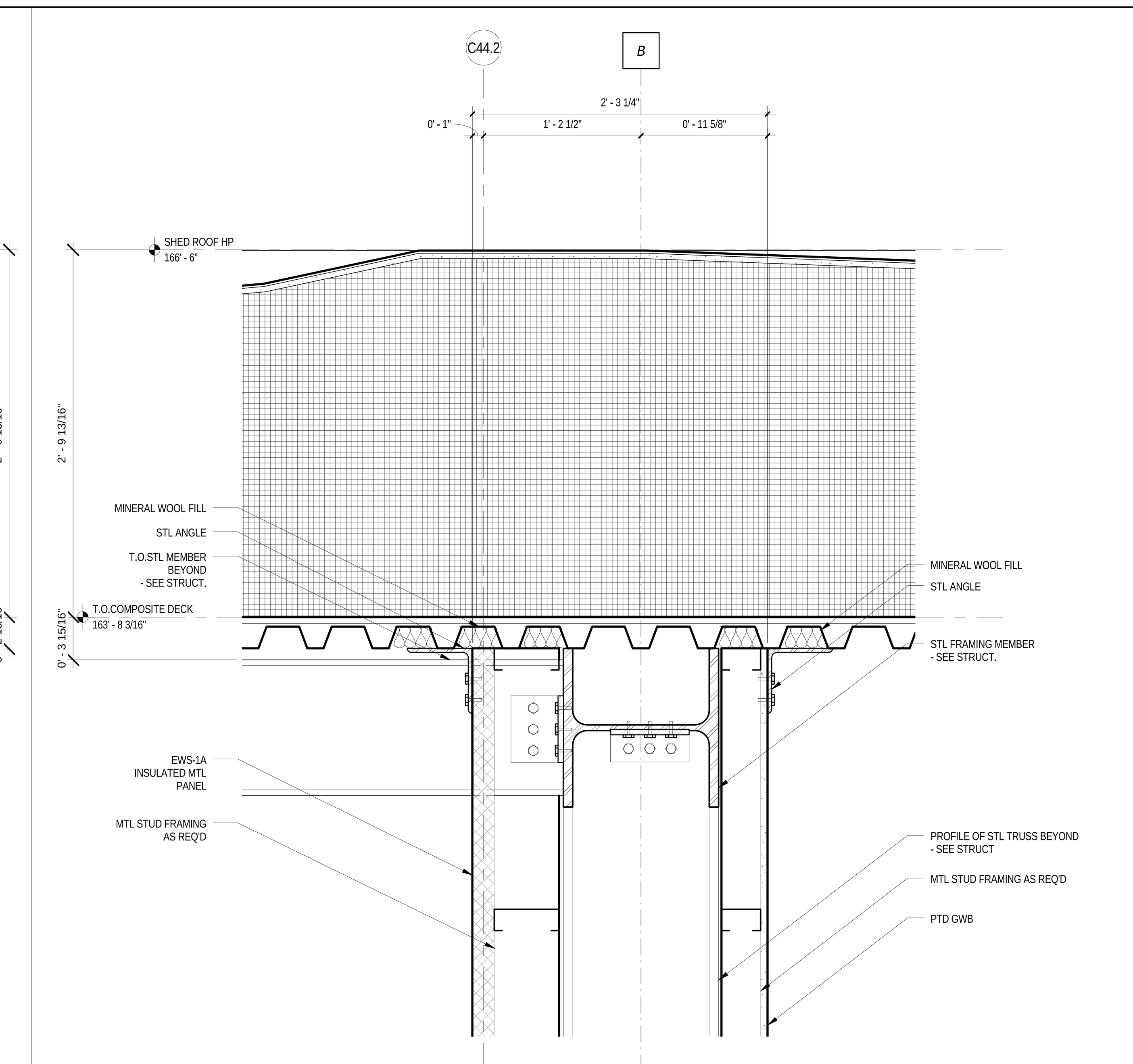
DETAIL @ SHED STL CONNECTION | 4 | 1 1/2" = 1'-0"



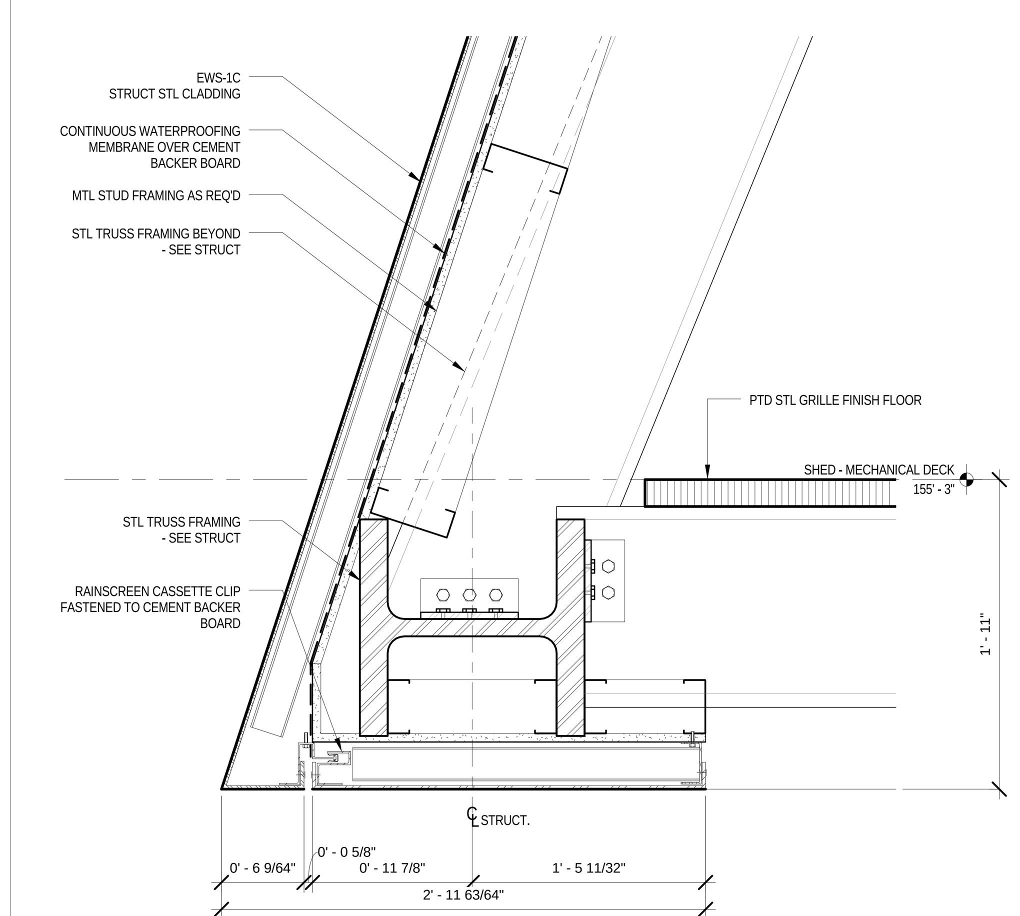
DETAIL - WEST FACADE (TYP, W/ DUCT) | 1 | 1 1/2" = 1'-0"



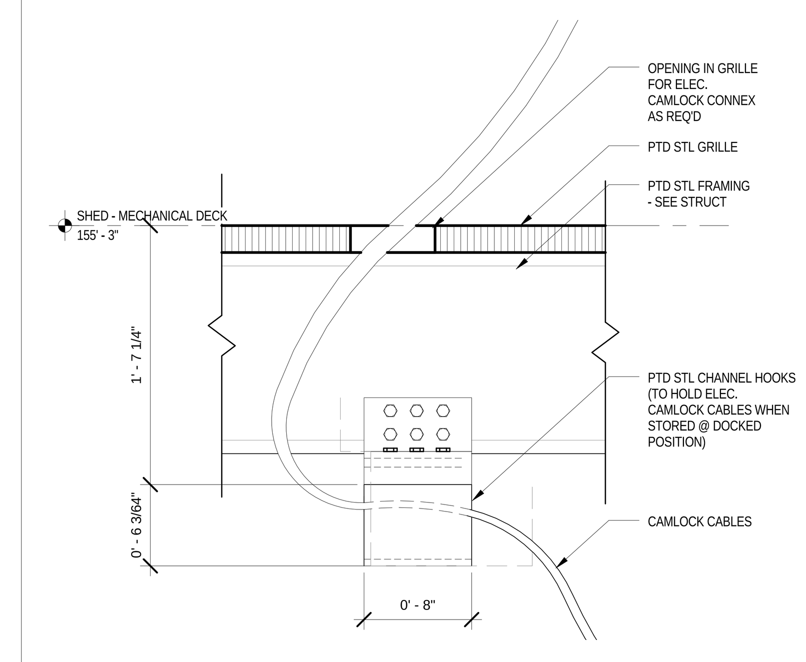
DETAIL - WEST FACADE (NO-DUCT) | 2 | 1 1/2" = 1'-0"



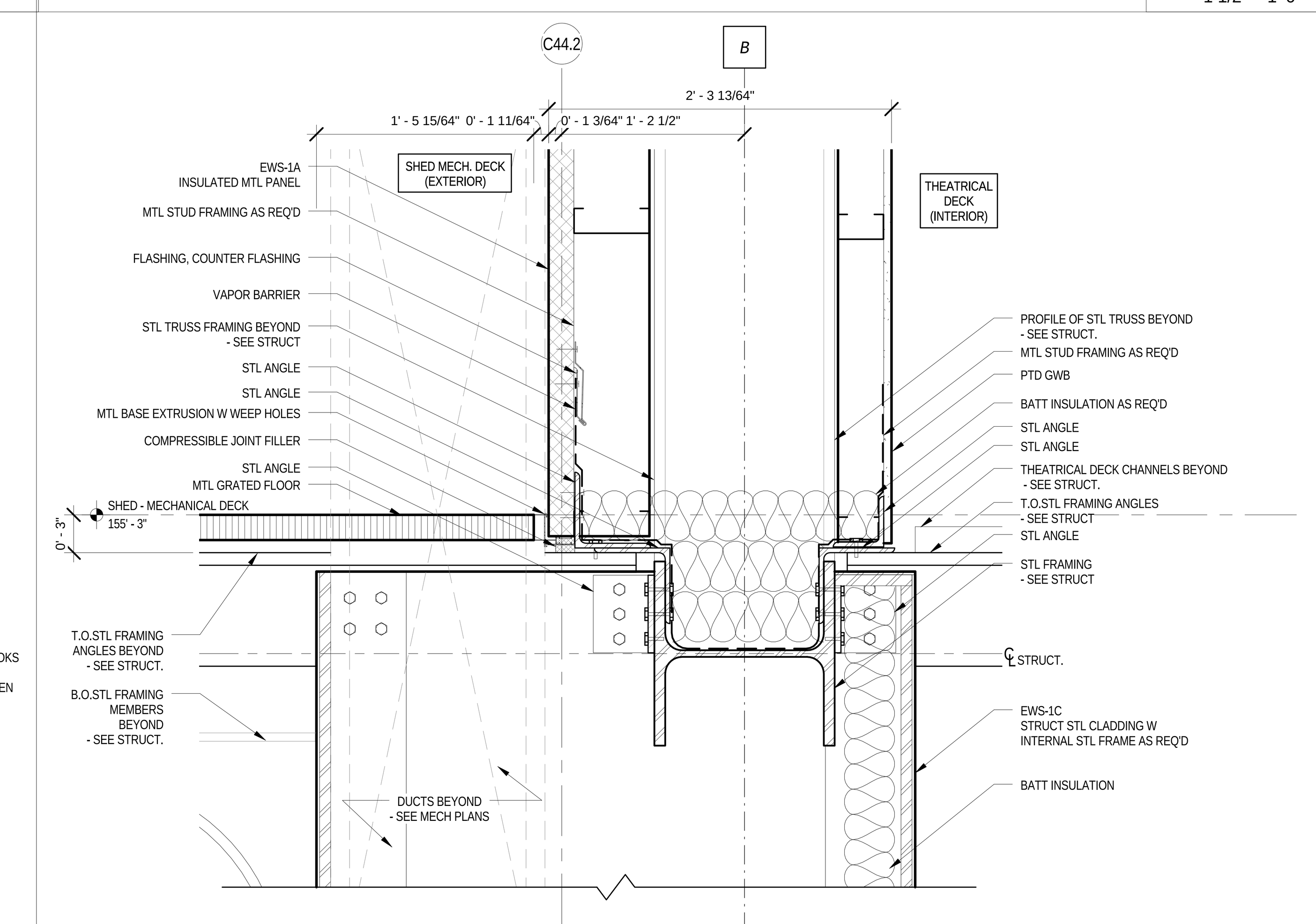
DETAIL - SHED TO FIXED BLDG @ SHED ROOF W | 3 | 1 1/2" = 1'-0"



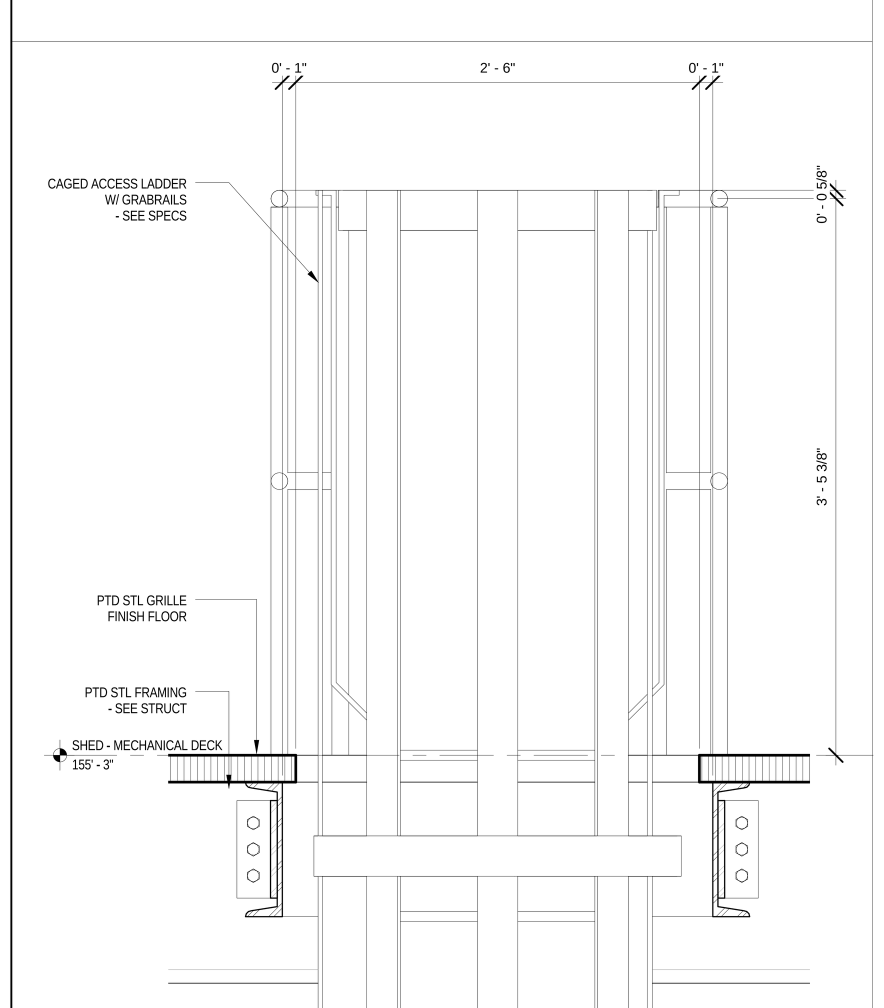
DETAIL - WEST FACADE (TYP, W/ DUCT)1 | 5 | 1 1/2" = 1'-0"



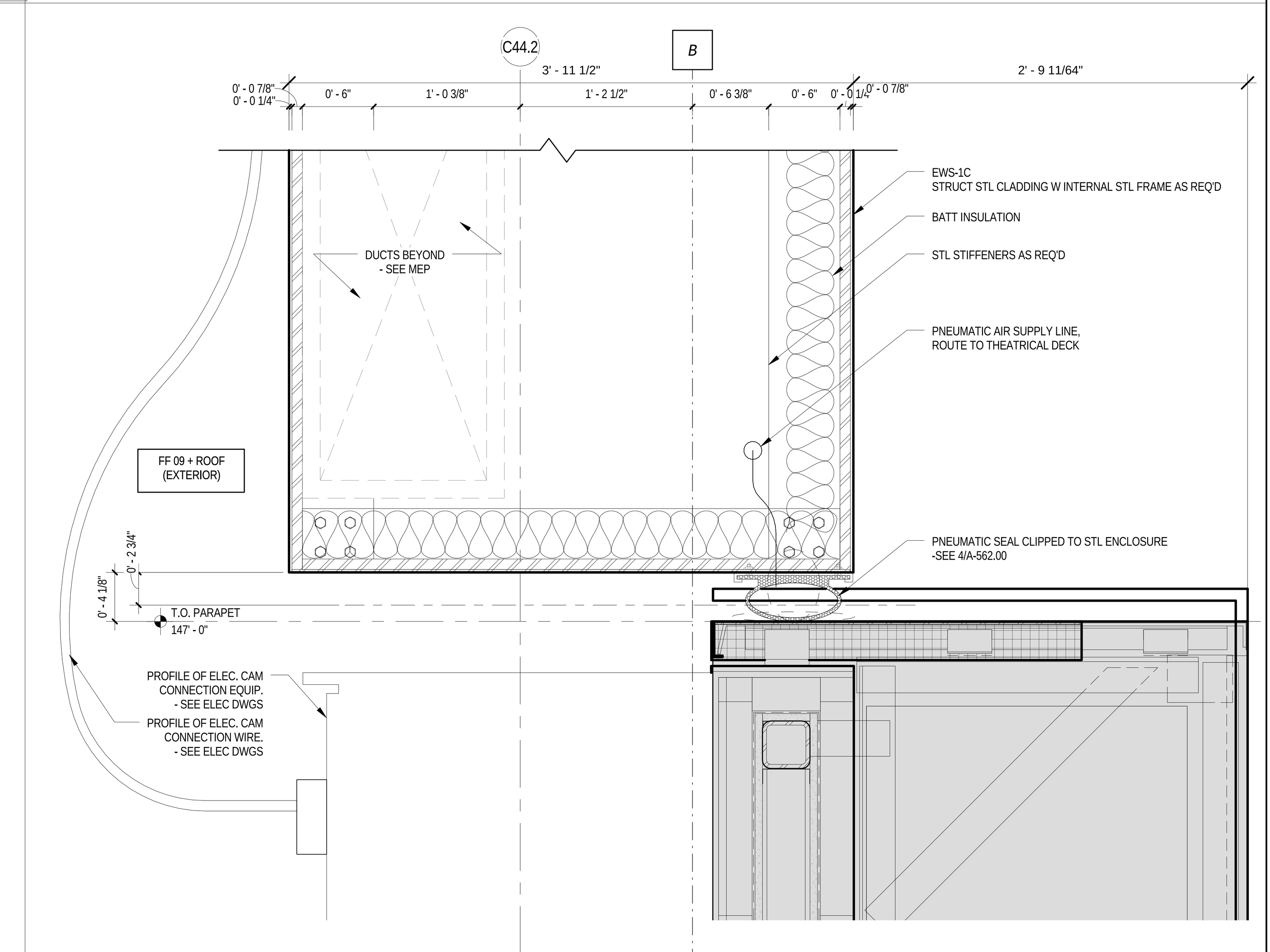
DETAIL@ THEATRICAL DECK | 6 | 1 1/2" = 1'-0"



DETAIL - SHED TO FIXED BLDG @ MECH DECK W | 7 | 1 1/2" = 1'-0"



DETAIL 2 - WEST ACCESS LADDER | 8 | 1 1/2" = 1'-0"



DETAIL - SHED TO FIXED BLDG @ FF09 ROOF W | 9 | 1 1/2" = 1'-0"

LEGEND

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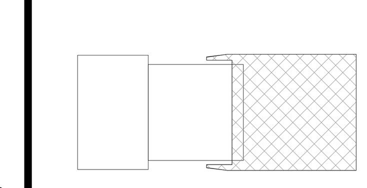

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CHECKED BY CB

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DRAWING NO.
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B-SCAN NO.
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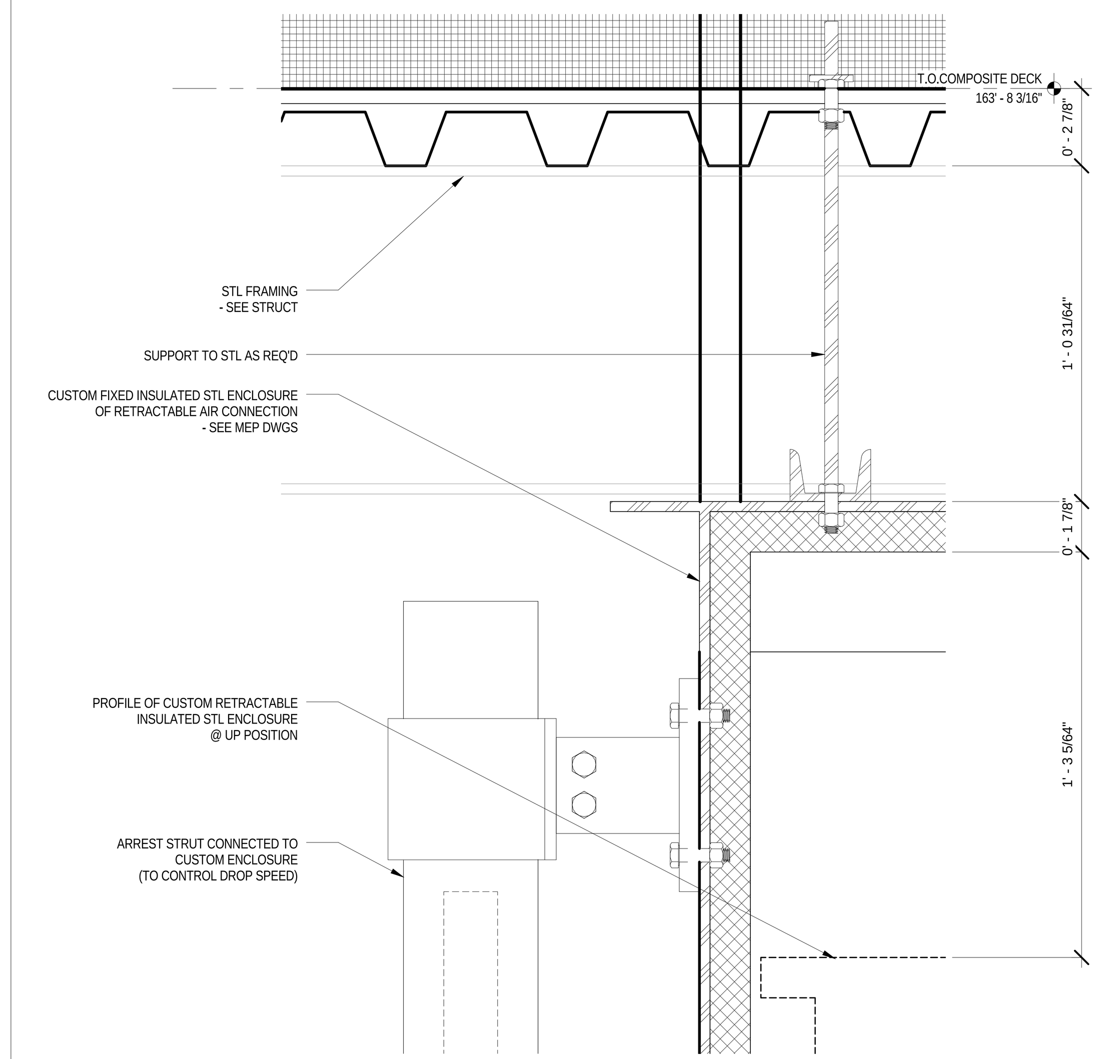
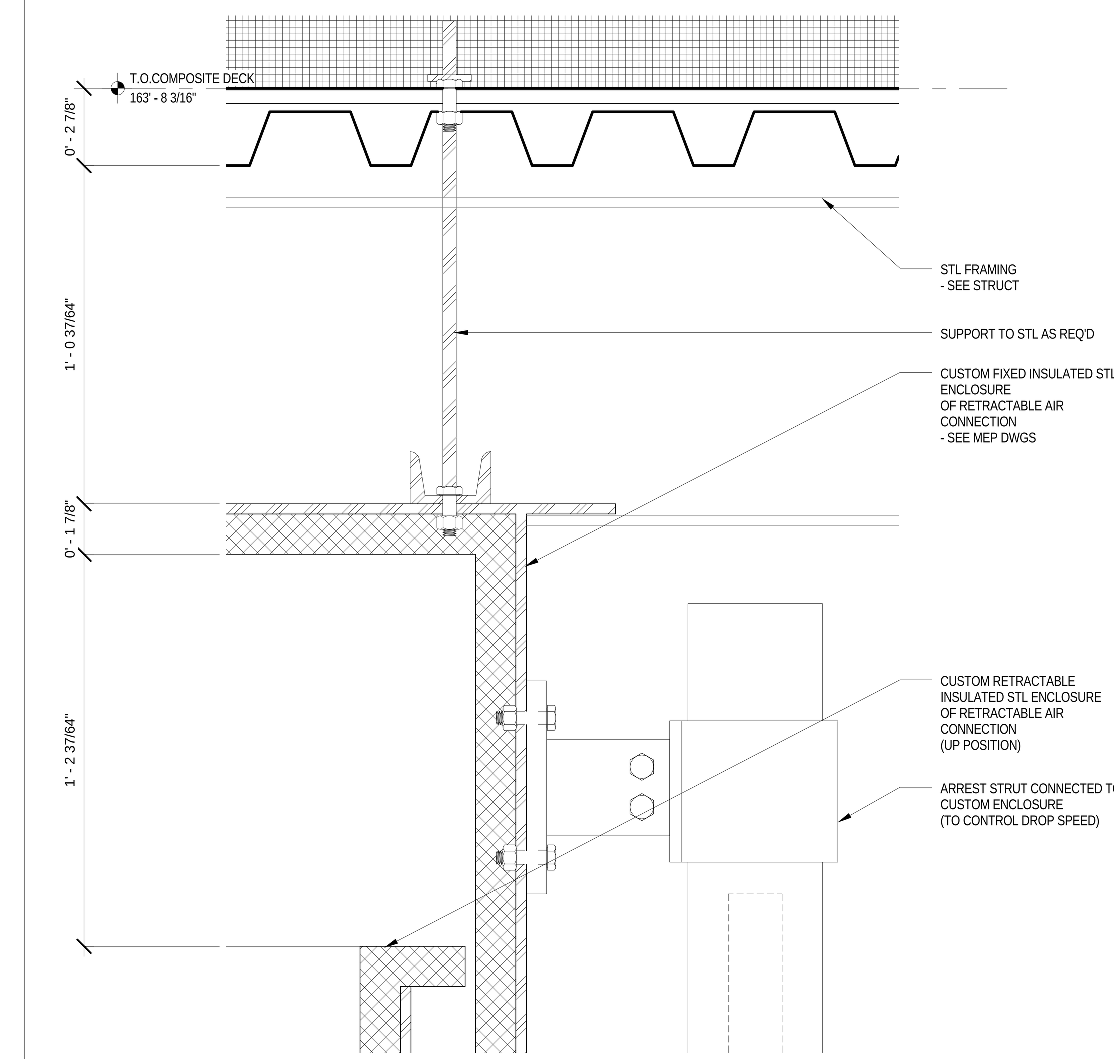
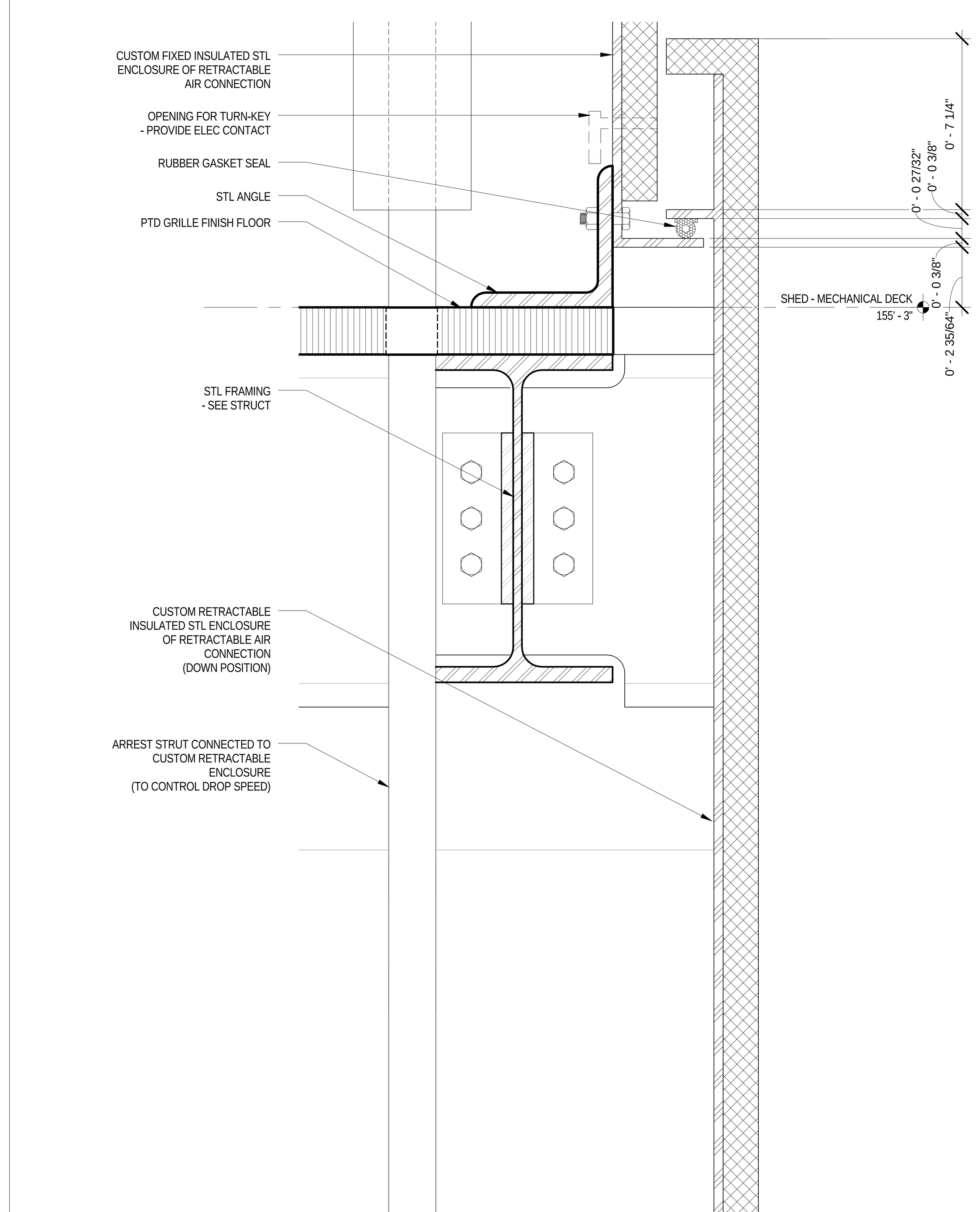


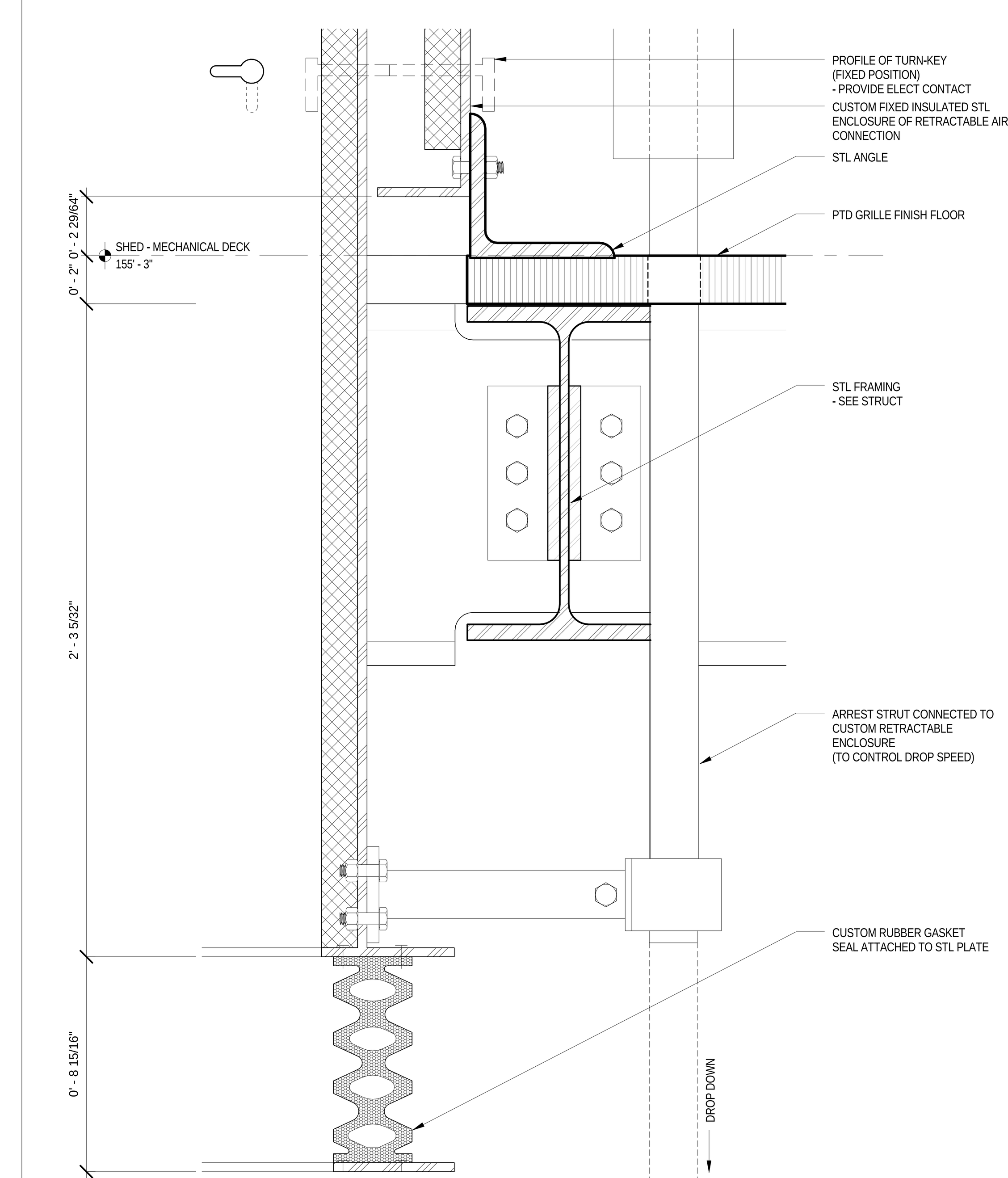
DETAIL @ DUCT - CEILING (DOWN POSITION) 1
3" = 1'-0"



DETAIL @ DUCT - CEILING (UP POSITION) 2
3" = 1'-0"



DETAIL @ DUCT - MECH DECK (DOWN POSITION) 3
3" = 1'-0"



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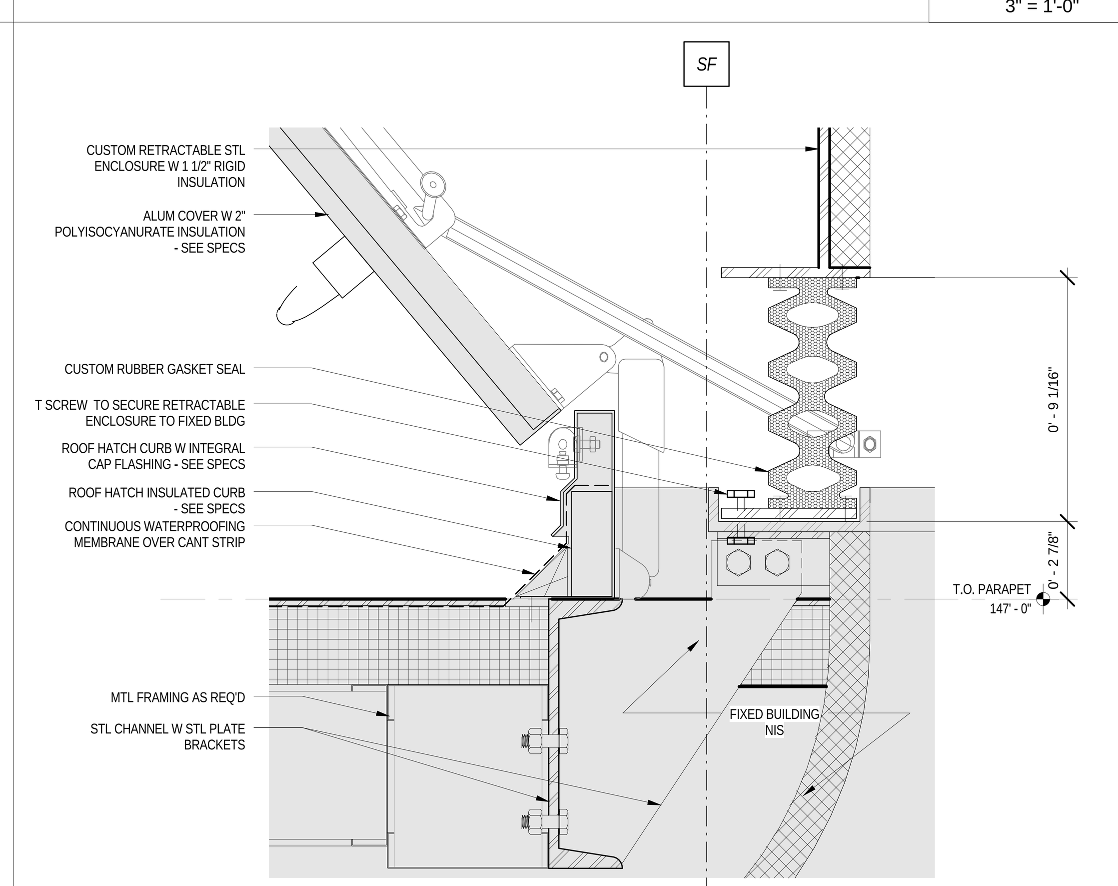
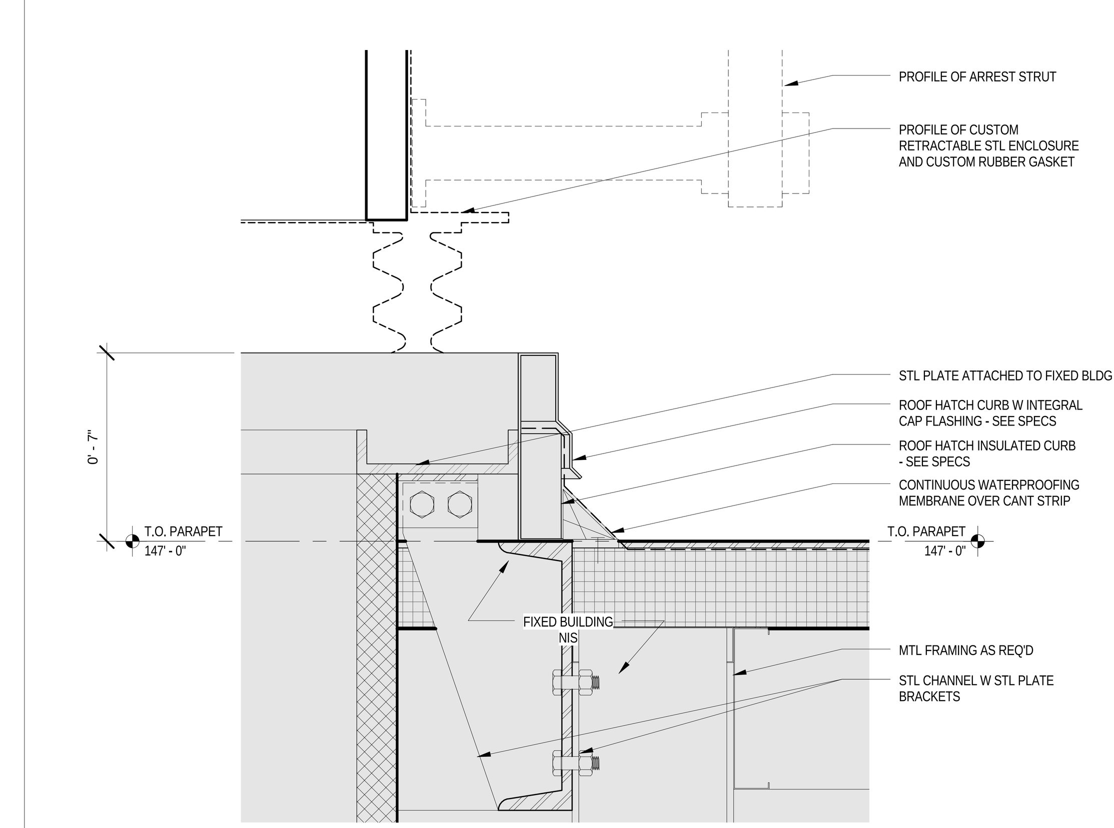
3" = 1'-0"



DETAIL @ DUCT - ROOF HATCH (DOWN POSITION) 5
3" = 1'-0"



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NYC Development Hub

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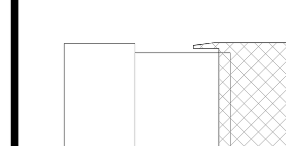
KEY PLAN



ISSUE		PRINTING	DATE
44	33	DOB AMENDMENT 5	04.08.2016
13		DOB AMENDMENT 1	08.03.2015
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1		ADV. PROCUREMENT BID SET	06.16.2014

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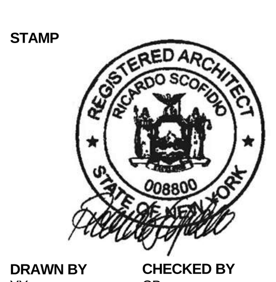

DRAWN BY YY   **CHECKED BY** CB

PROJECT NUMBER
11017

TITLE
DETAILS - RETRACTABLE AIR DUCT ASSEMBLY

SCALE: 3" = 1'-0"
0 8 16 24

DRAWING NO.
A-554.00

B-SCAN NO.

A-554.00

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DEPT OF BLDGS 121192397 Job Number
ES663371013 Scan Code

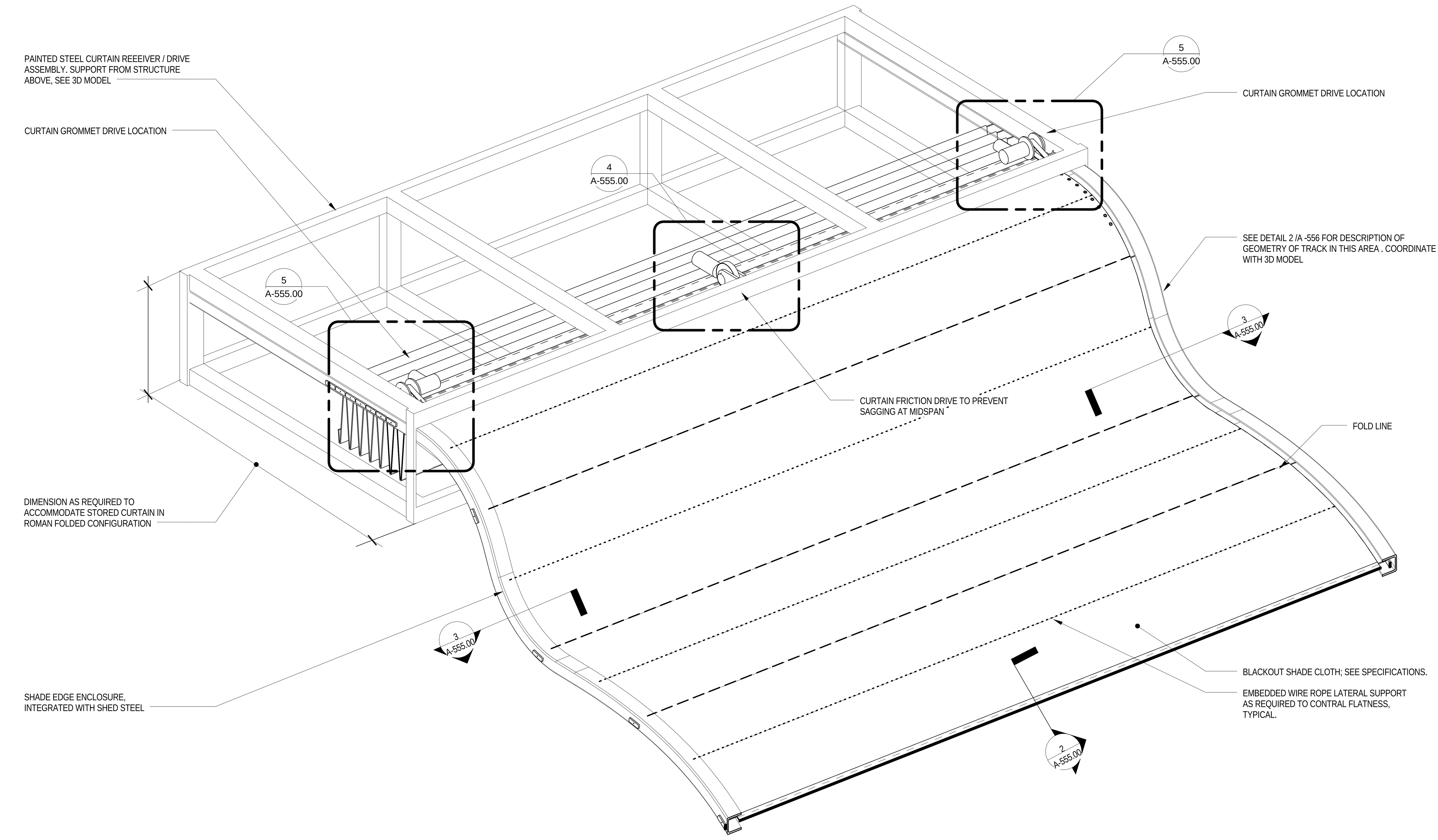


DIAGRAM OF N/S CURTAIN RECEIVER / DRIVE UNIT
1
N.T.S.

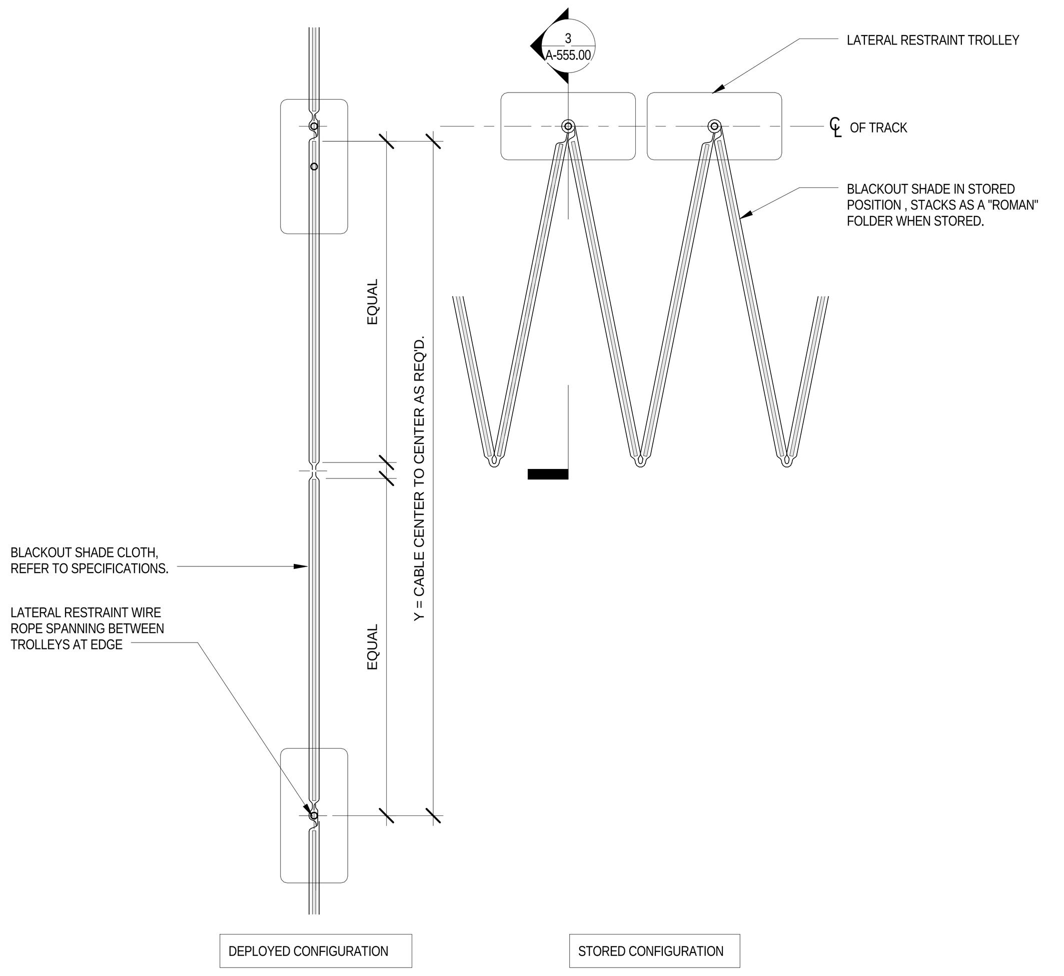
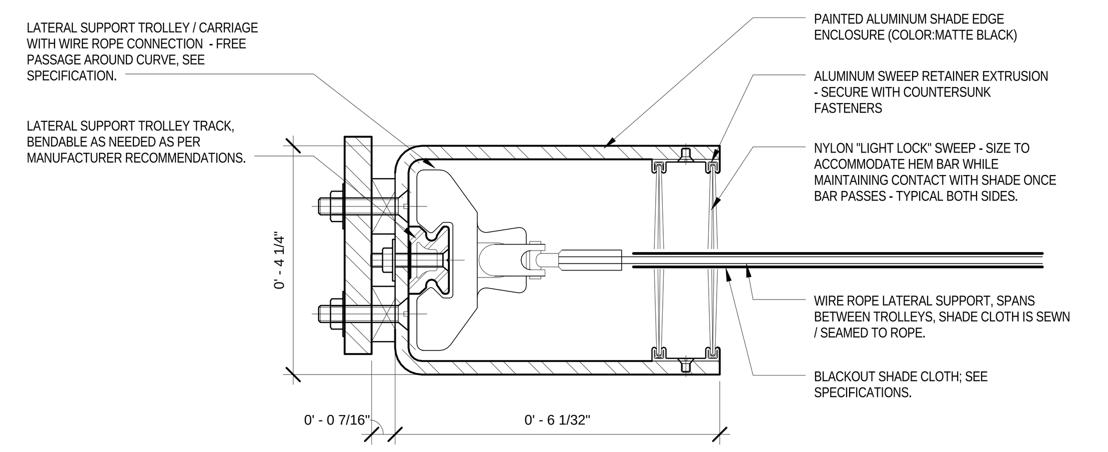


DIAGRAM OF SHADE OPERATION
2
3" = 1'-0"



DETAIL AT CURTAIN EDGE TRACK
3
6" = 1'-0"

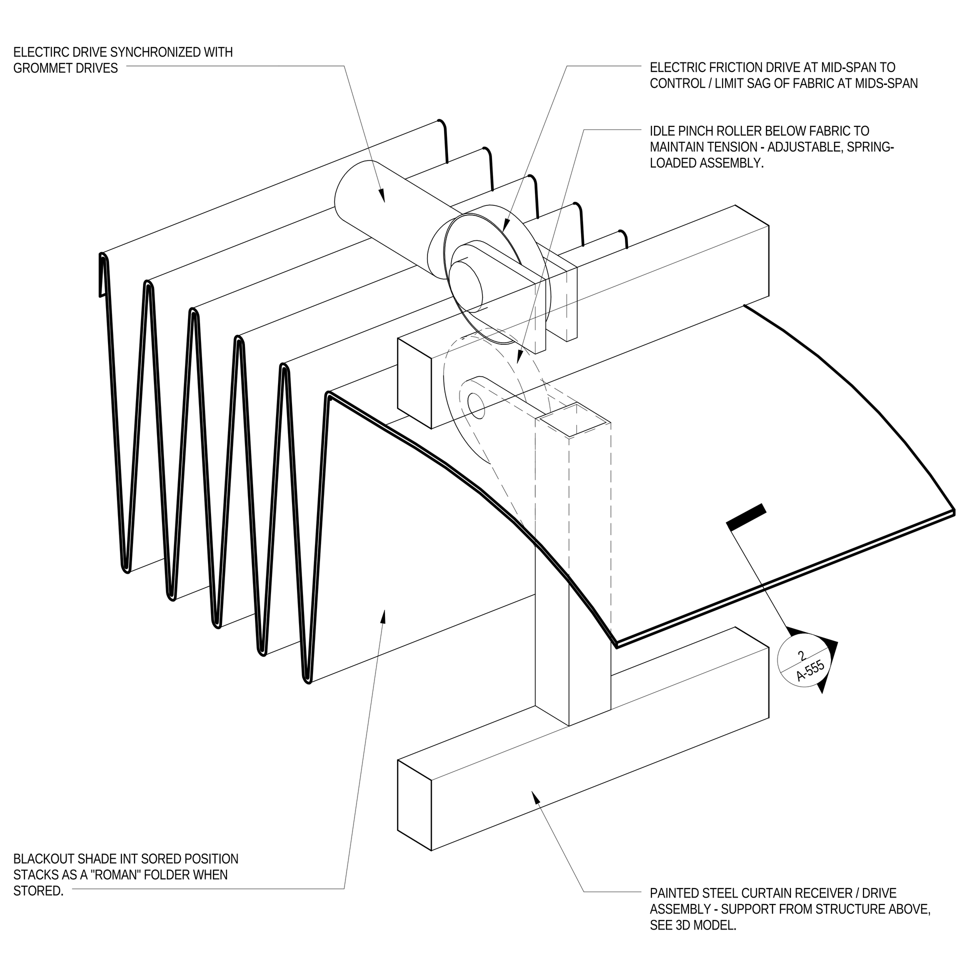


DIAGRAM OF FRICTION DRIVE
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N.T.S.

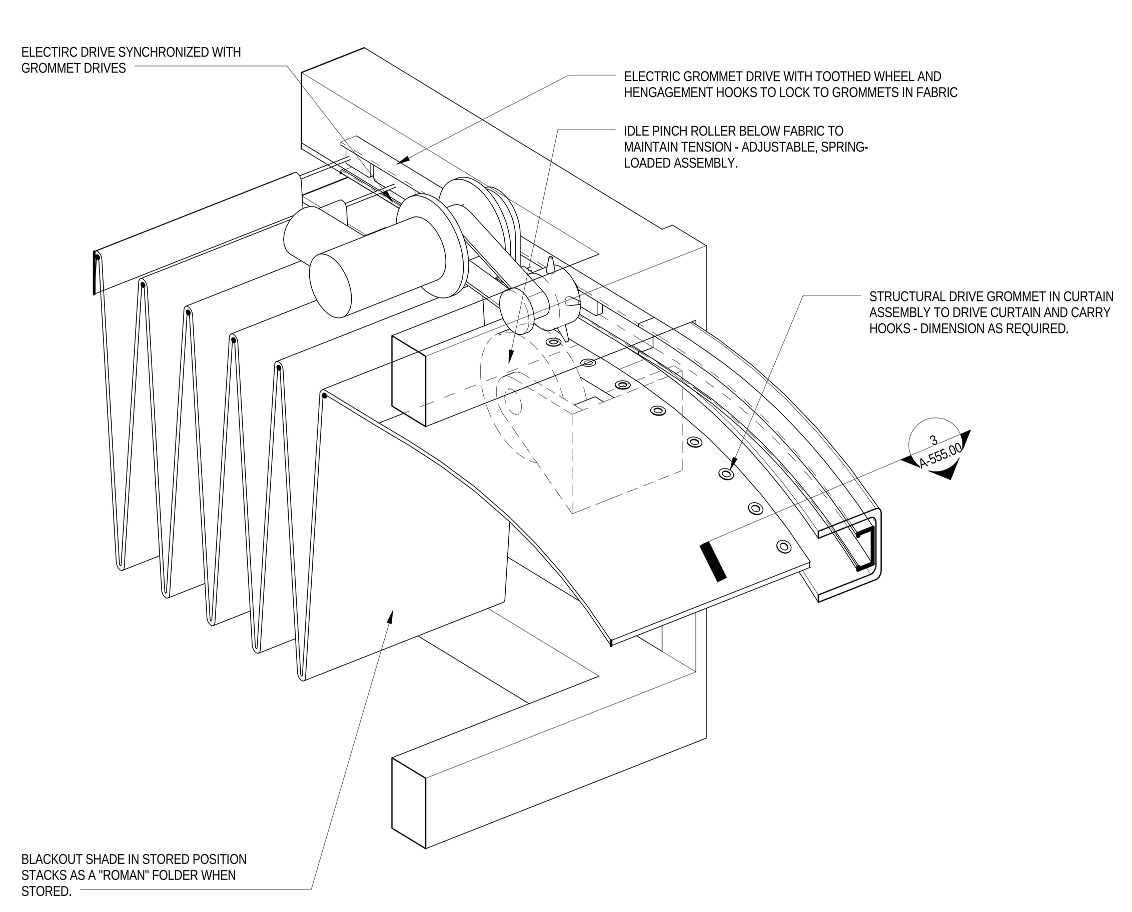

DIAGRAM OF GROMMET DRIVE
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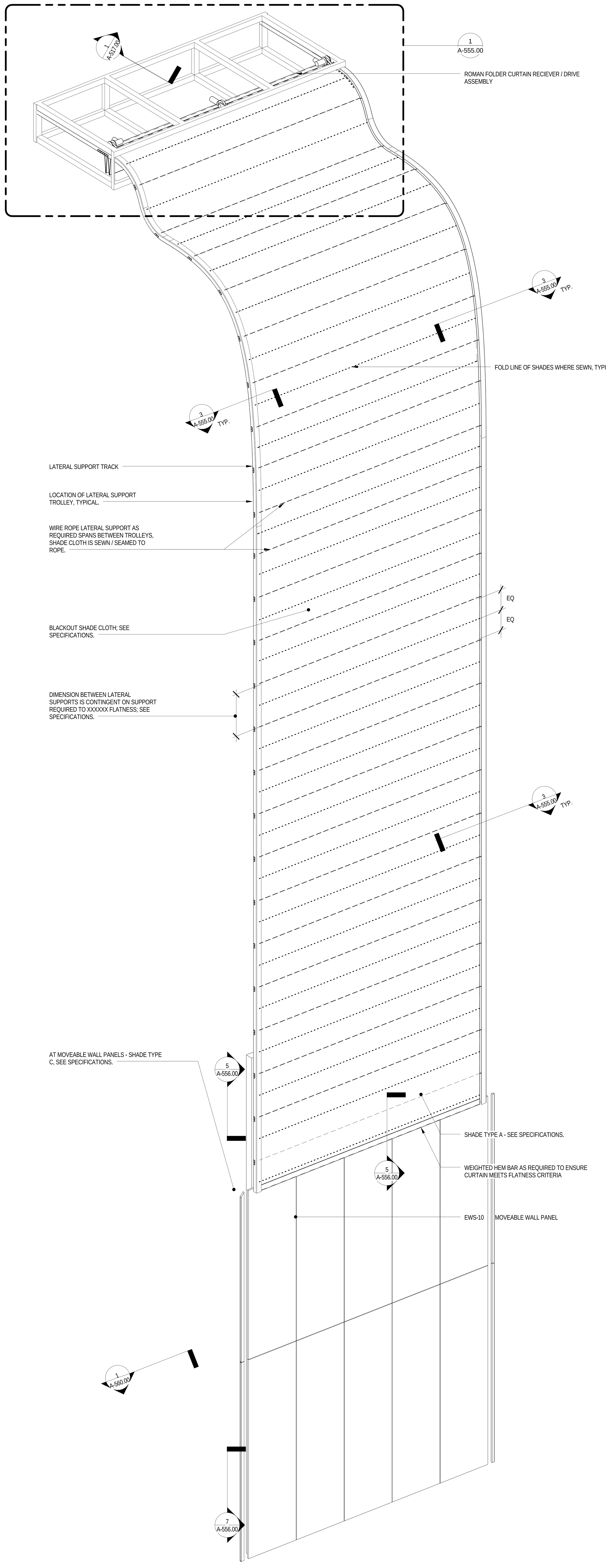

DIAGRAM OF N/S SHADES - TYPICAL A, A1 SHADES
6
N.T.S.

LEGEND

GENERAL NOTES

1.
For Shed components this drawing set is to be considered integral with the provided 3D models and may not be considered independently from the models. The contractor is to base their bid upon the information provided in both the drawings and 3D models. In matters of form and geometry the three dimensional model takes precedence in the instance of a discrepancy between drawing and model. In all other matters the contractor shall seek the opinion of the Architect and Structural Engineer to resolve the discrepancy.

2.
Geometry, dimensions and surface contouring, blending and intersection of sections illustrated in the structural drawings are provided for reference and generation of the structural arrangement and details only. The 3D model issued by the Architect defines the exterior surface and shall be adhered to for the final geometry. It is the responsibility of the Contractor to identify any discrepancies or ambiguities for discussion, resolution and direction from the Architect and Structural Engineer.

3.
Typical N/S wall node:
The geometry created by the intersecting main verticals and diagonals shall be in accordance with the 3D model and follow, as a minimum, the quality exhibited in the approved mock-up. The general concept is that edges flow smoothly and continuously between the straight edge of a diagonal through a curve to the adjacent edge of the vertical and the interlying surfaces between these edges are blended and contoured to define a smooth, uninterrupted transition.

4.
Typical Node Elsewhere:
The geometry created by the intersecting elements shall be in accordance with the 3D model. The level of quality is to be similar to the approved mock-up for the typical node. The general concept is that edges flow smoothly and continuously between the edge of one element to the corresponding edge of the adjacent element and the interlying surfaces between these edges are blended and contoured to define a smooth, uninterrupted transition.

5.
This drawing should be considered integral with the written Specifications issued along with the drawings and 3D models. Refer to the Advanced procurement Bid Issue Specifications Table of Contents.

6.
Structural steel cladding enclosing selected areas of the Shed (referred to as EWS-1c) shall be in the scope of the steel contractor for continuity with adjacent primary steel members. Criteria for tolerance and flatness to match that of the structural steel (see structural drawings & specifications). Plate configuration, including thickness, internal stiffeners and diaphragms, to be proposed by the fabricator and subject to agreement with the Architect and Engineer to provide an enclosure which satisfies the aesthetic and structural requirements. Refer to 3D model for extent of EWS-1c.

7.
Visually exposed HVAC supply and return ducts in the Shed, shown herein, are to be in the scope of the steel contractor to ensure continuity of appearance with primary steel. Criteria for tolerance and flatness to match that of the structural steel (see structural drawings & specifications). Plate configuration, including thickness, internal stiffeners and diaphragms, to be proposed by the fabricator and subject to agreement with the Architect and Engineer to provide an enclosure which satisfies the aesthetic and structural requirements. The mechanical ductwork carries its own self weight and is not a primary load-bearing element. Internal stiffening may not create interference with airflow requirements of the duct. Refer to 3D model.

Damian Titus
APPROVED
AMENDED APPLICATION
Date: 07/15/2016
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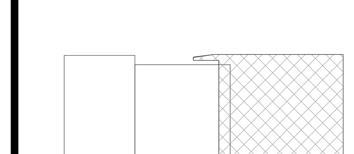

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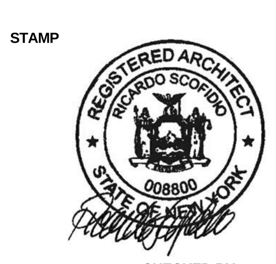

DRAWN BY HS
CHECKED BY CB

PROJECT NUMBER
11017

TITLE
DETAILS - SPECIALTY THEATRICAL CURTAINS / SHADES

SCALE: As indicated
0 8 16 24

DRAWING NO.
A-555.00

B-SCAN NO.
A-555.00

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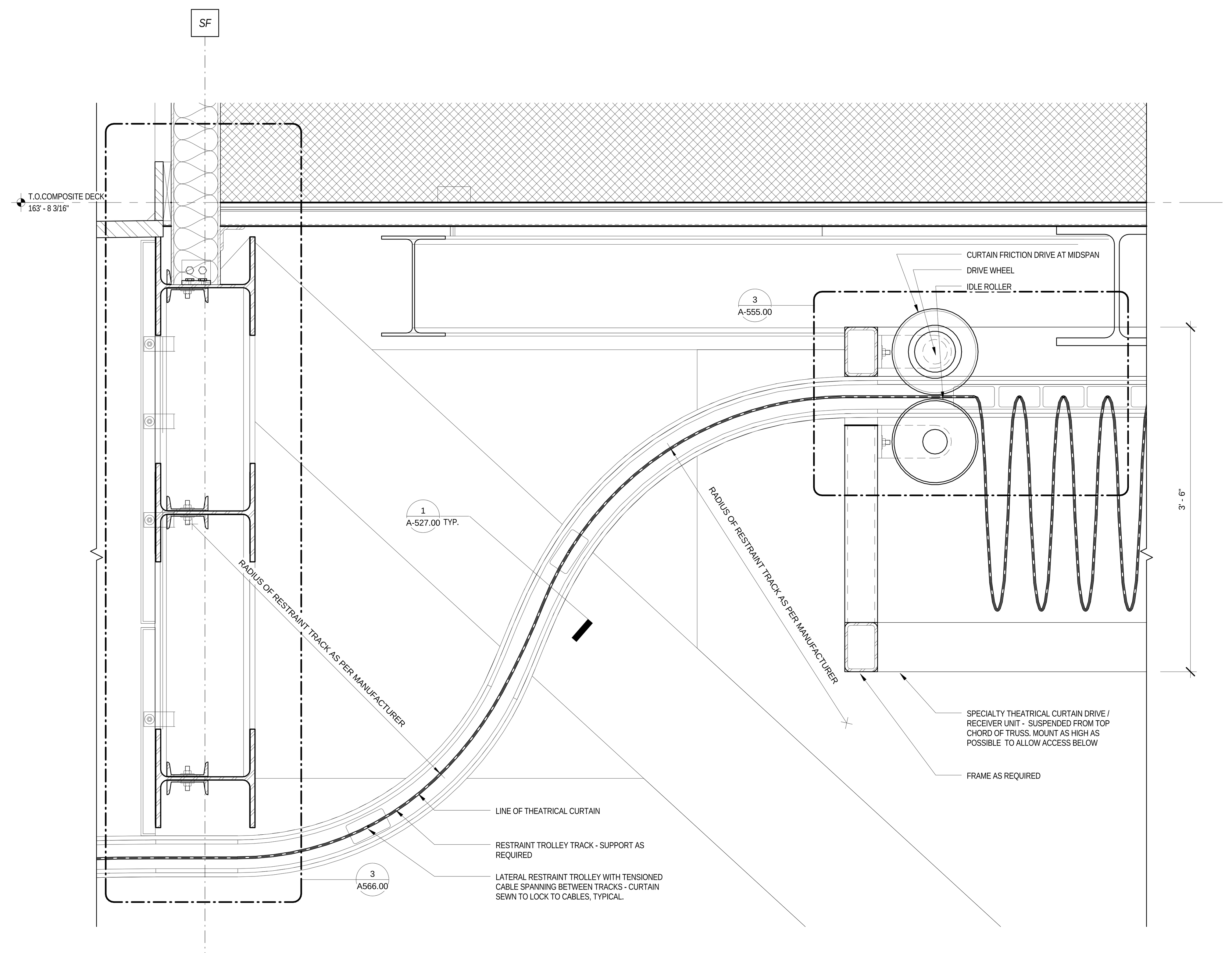
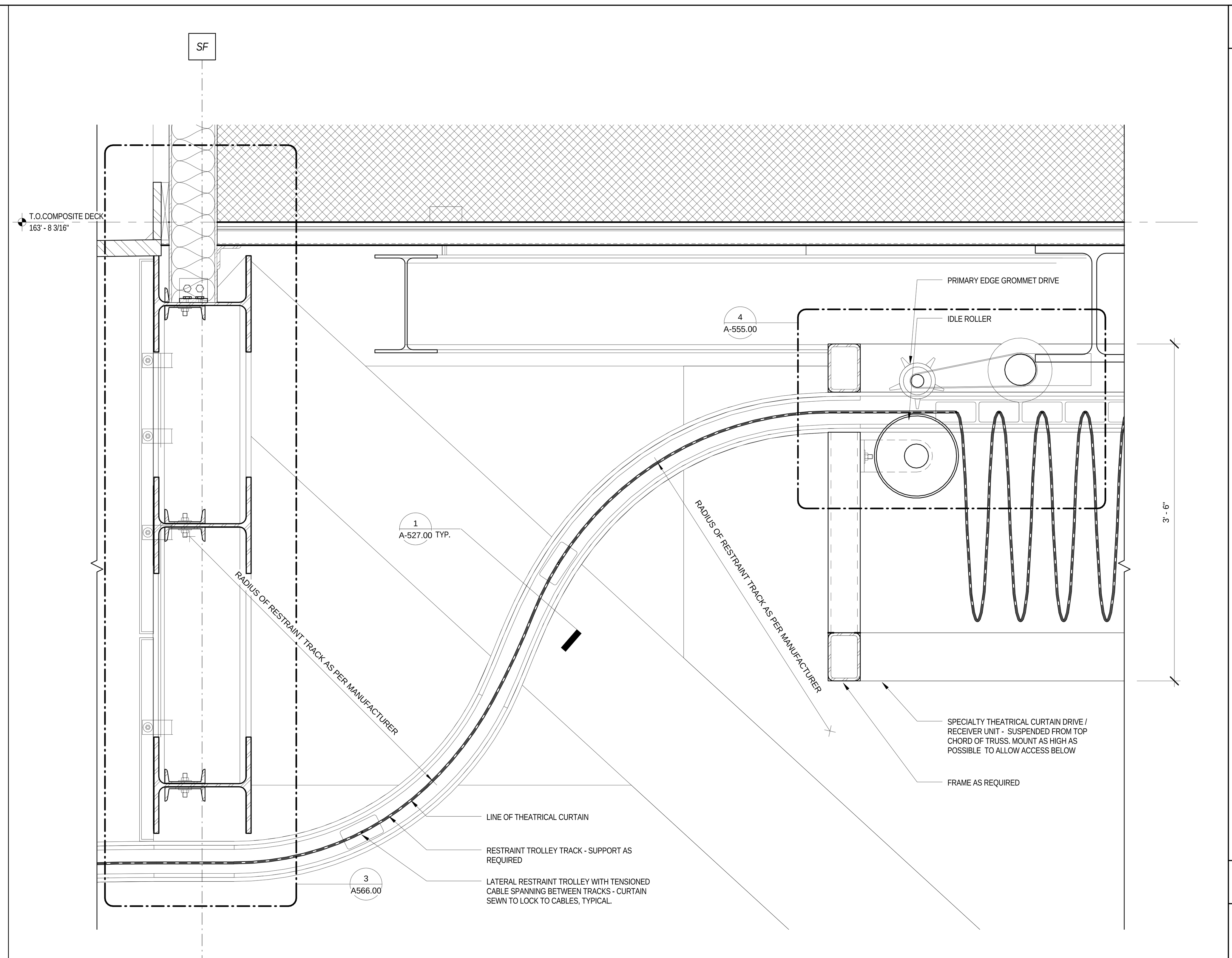
DEPT OF BLDGS 121192397 Job Number
ES283260180 Scan Code



DETAIL @ SPECIALTY SHADES BOX / FRICTION DRIVE | 2 | 1 1/2" = 1'-0"



DETAIL @ SPECIALTY SHADES BOX / DRIVE | 3 | 1 1/2" = 1'-0"

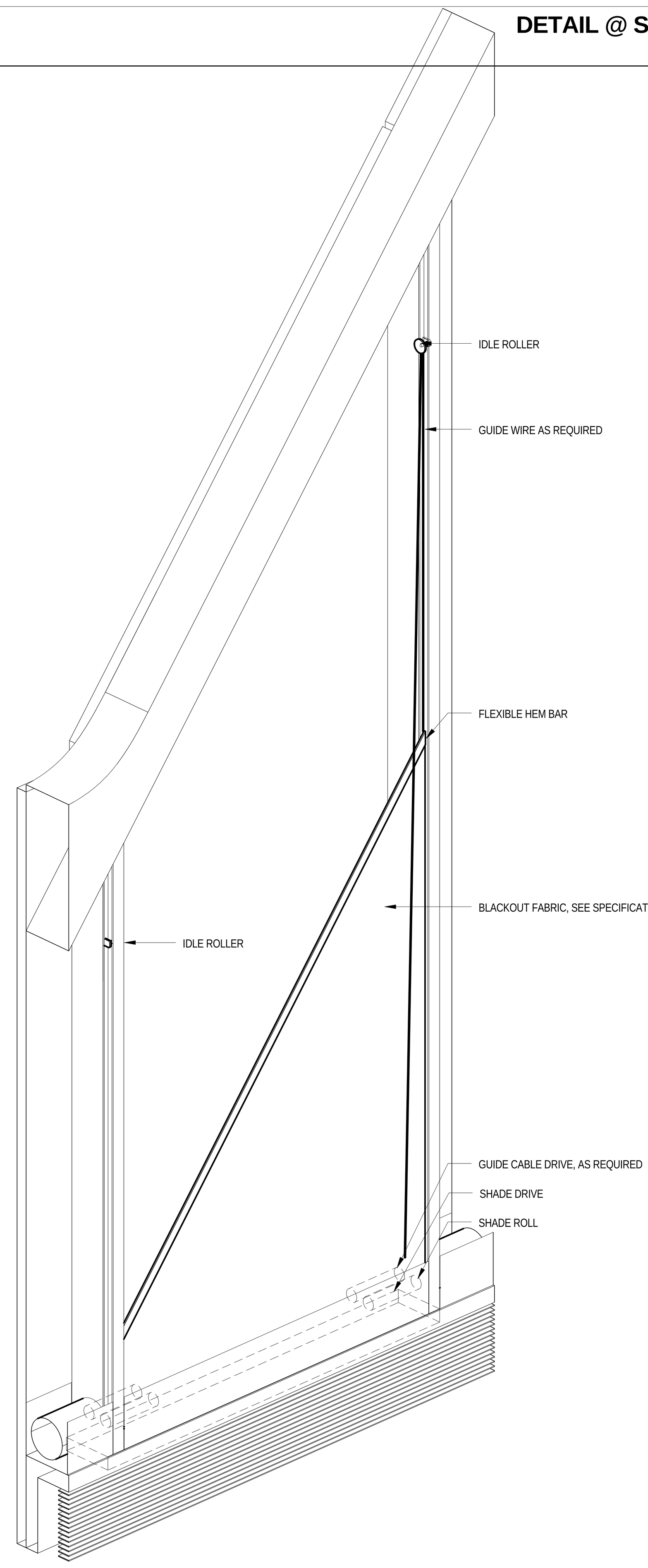
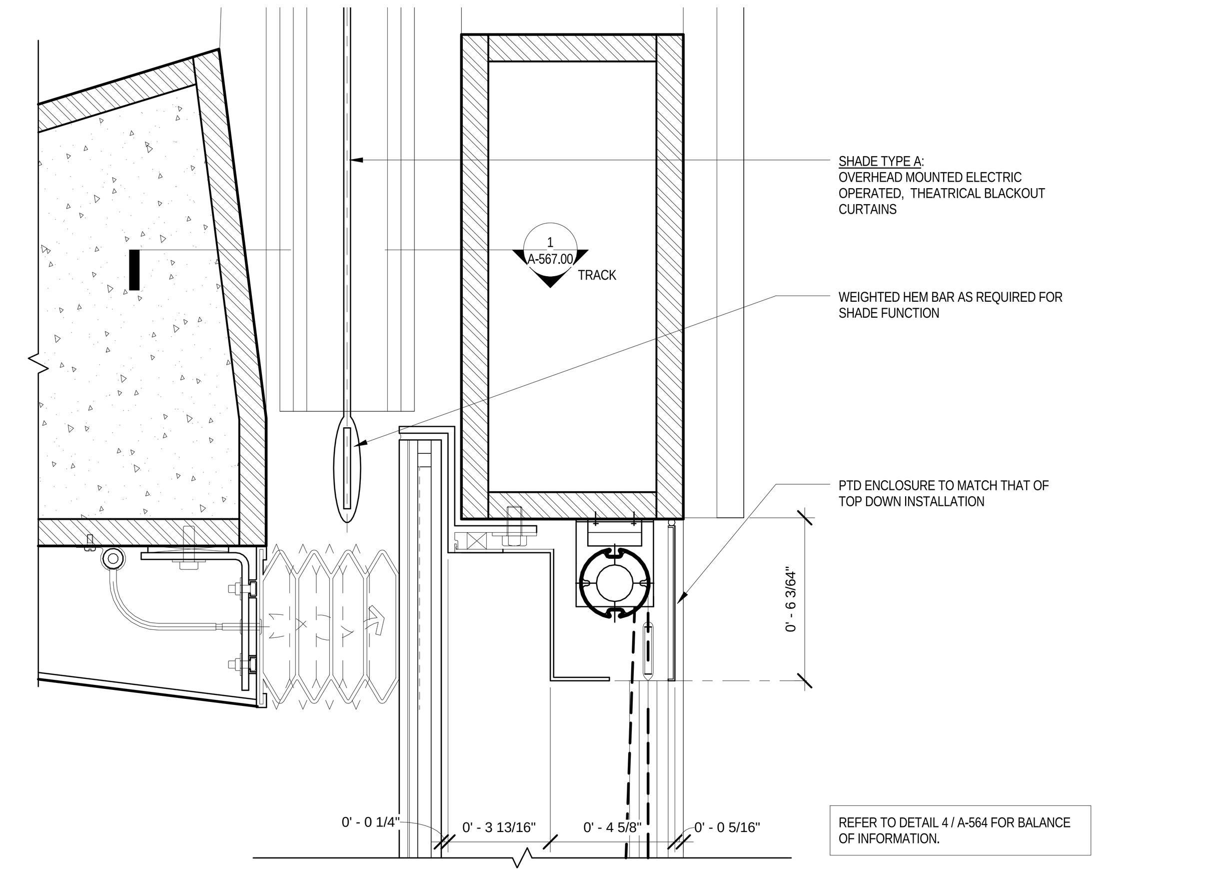
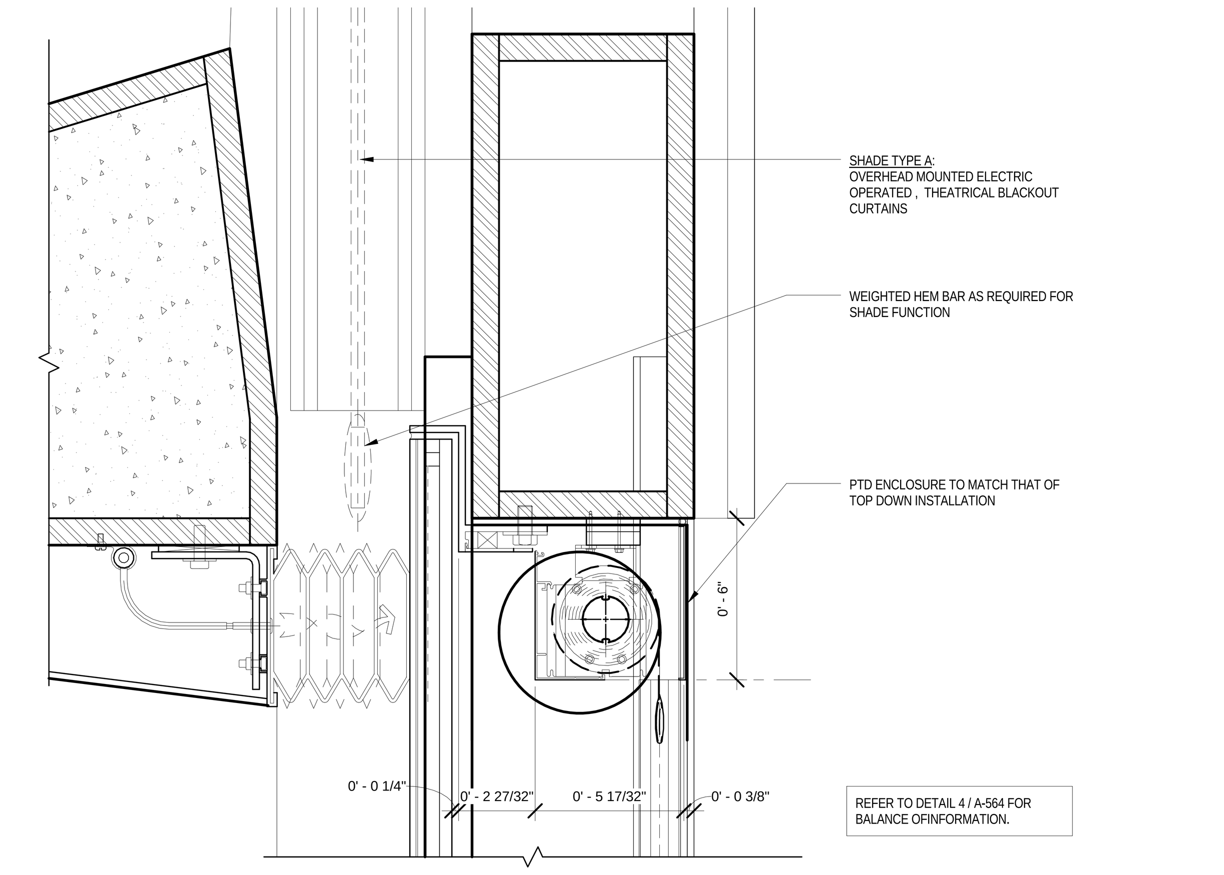


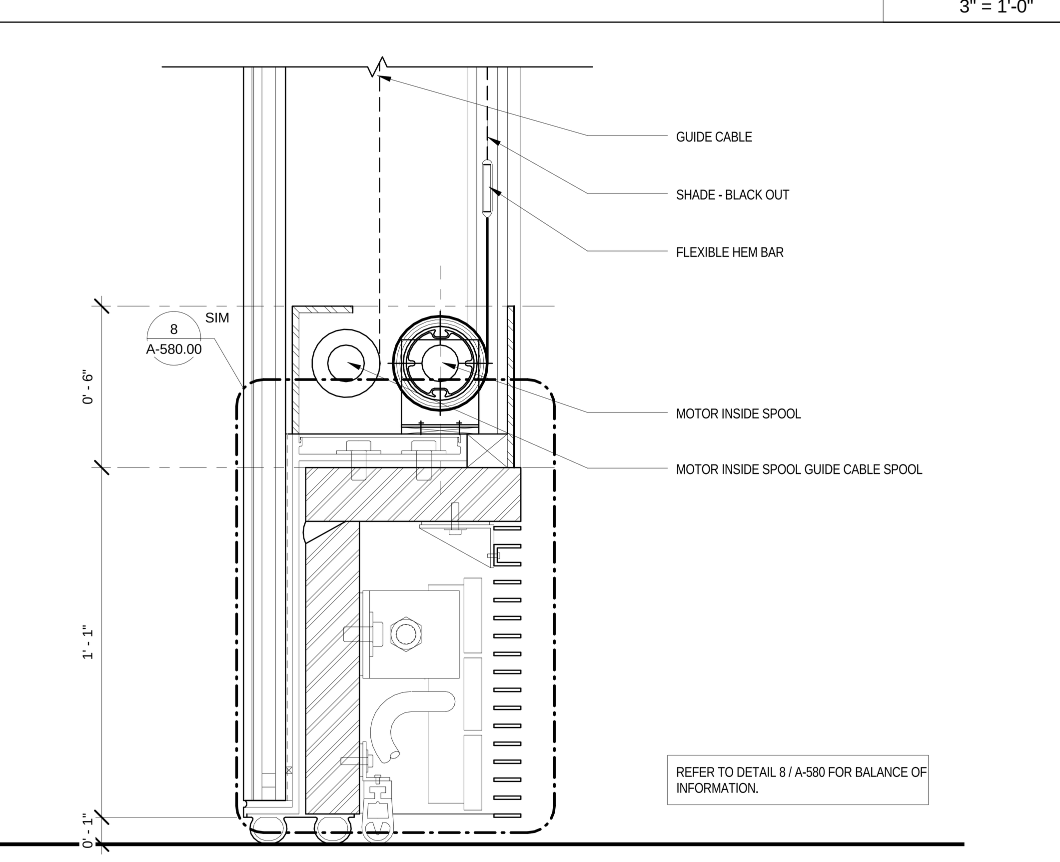
DIAGRAM OF BOTTOM/UP SHADE | 1 | N.T.S.



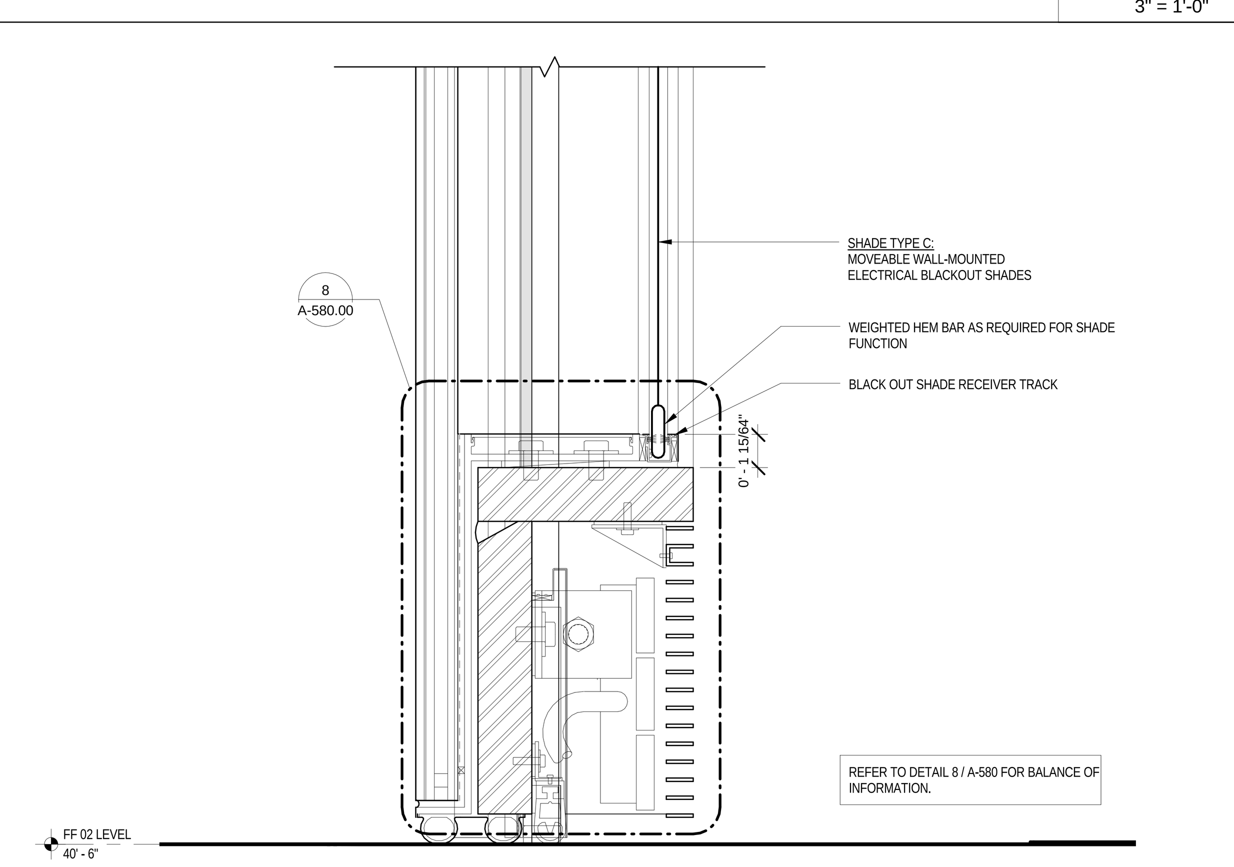
DETAIL @ BOTTOM/ UP SHADES - HEAD | 4 | 3" = 1'-0"



DETAIL @ N/S DOOR SHADES - HEAD | 5 | 3" = 1'-0"



DETAIL @ BOTTOM/ UP SHADES - SILL | 6 | 3" = 1'-0"



DETAIL @ N/S DOOR SHADES - SILL | 7 | 3" = 1'-0"

LEGEND

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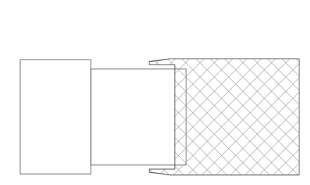

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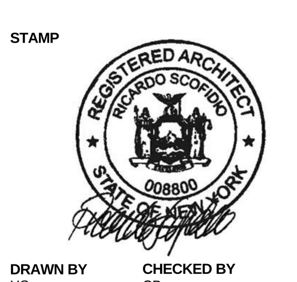

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PROJECT NUMBER
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TITLE
DETAILS - SPECIALTY THEATRICAL CURTAINS / SHADES

SCALE: As indicated

0 8 16 24

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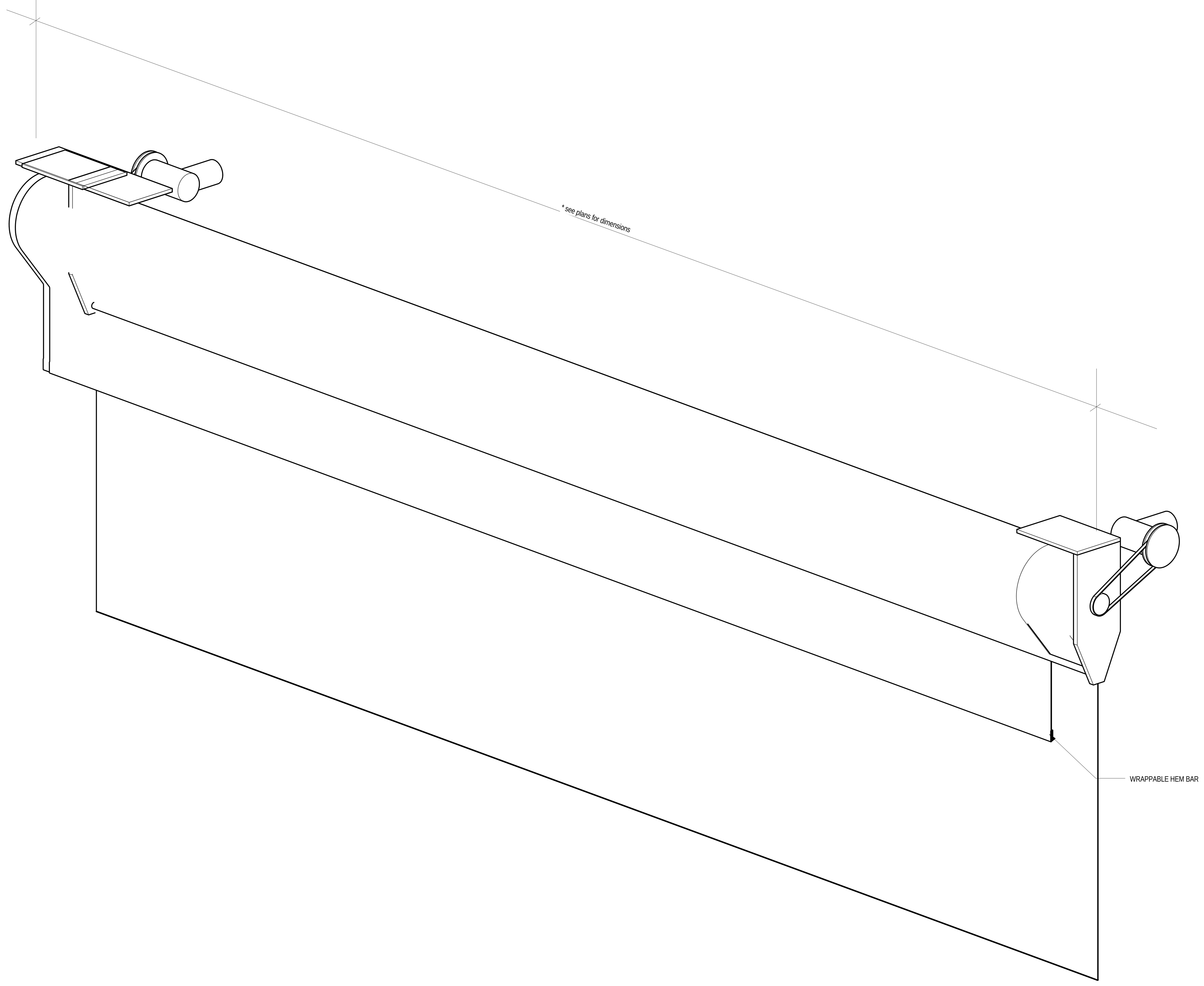
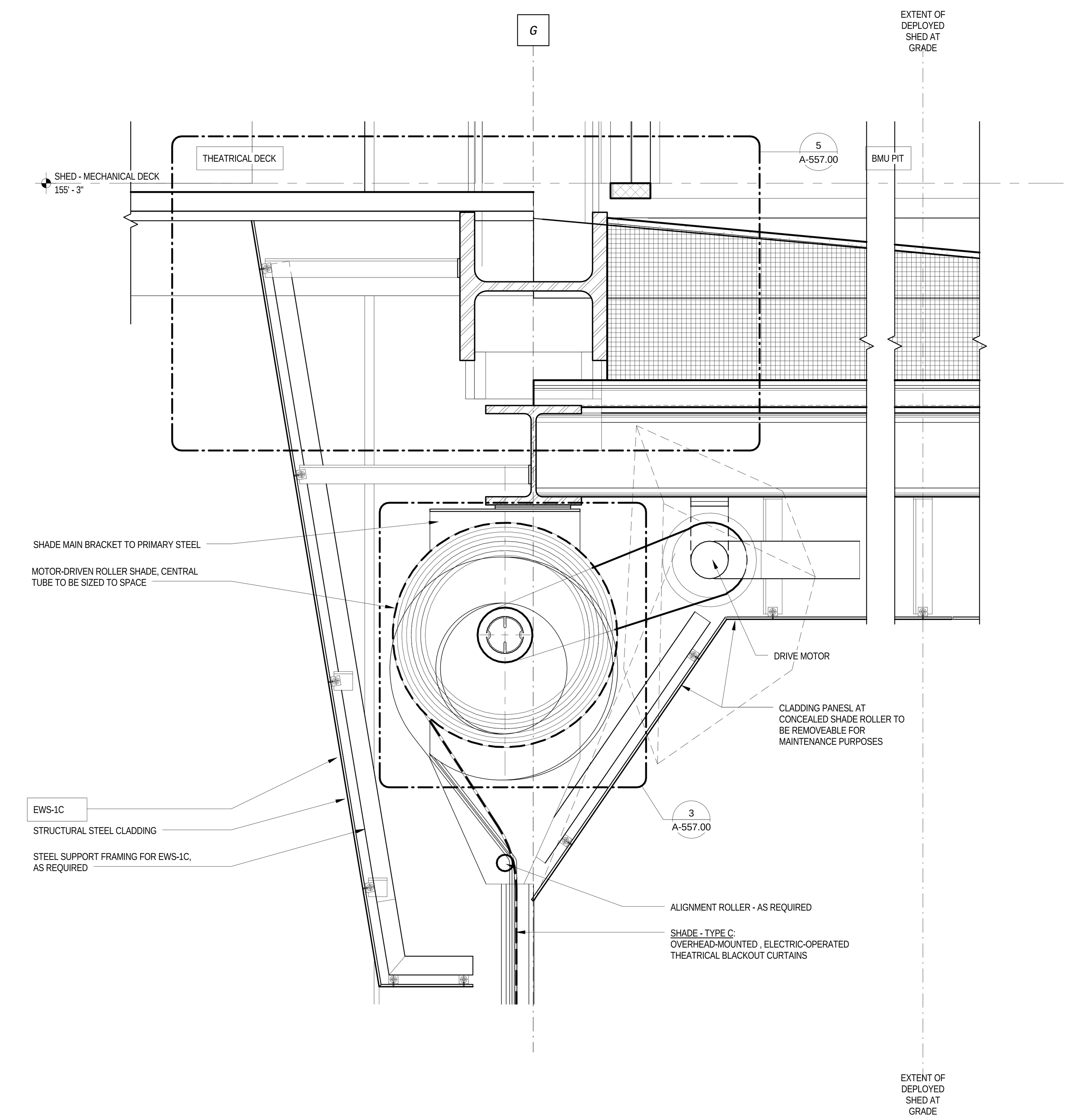
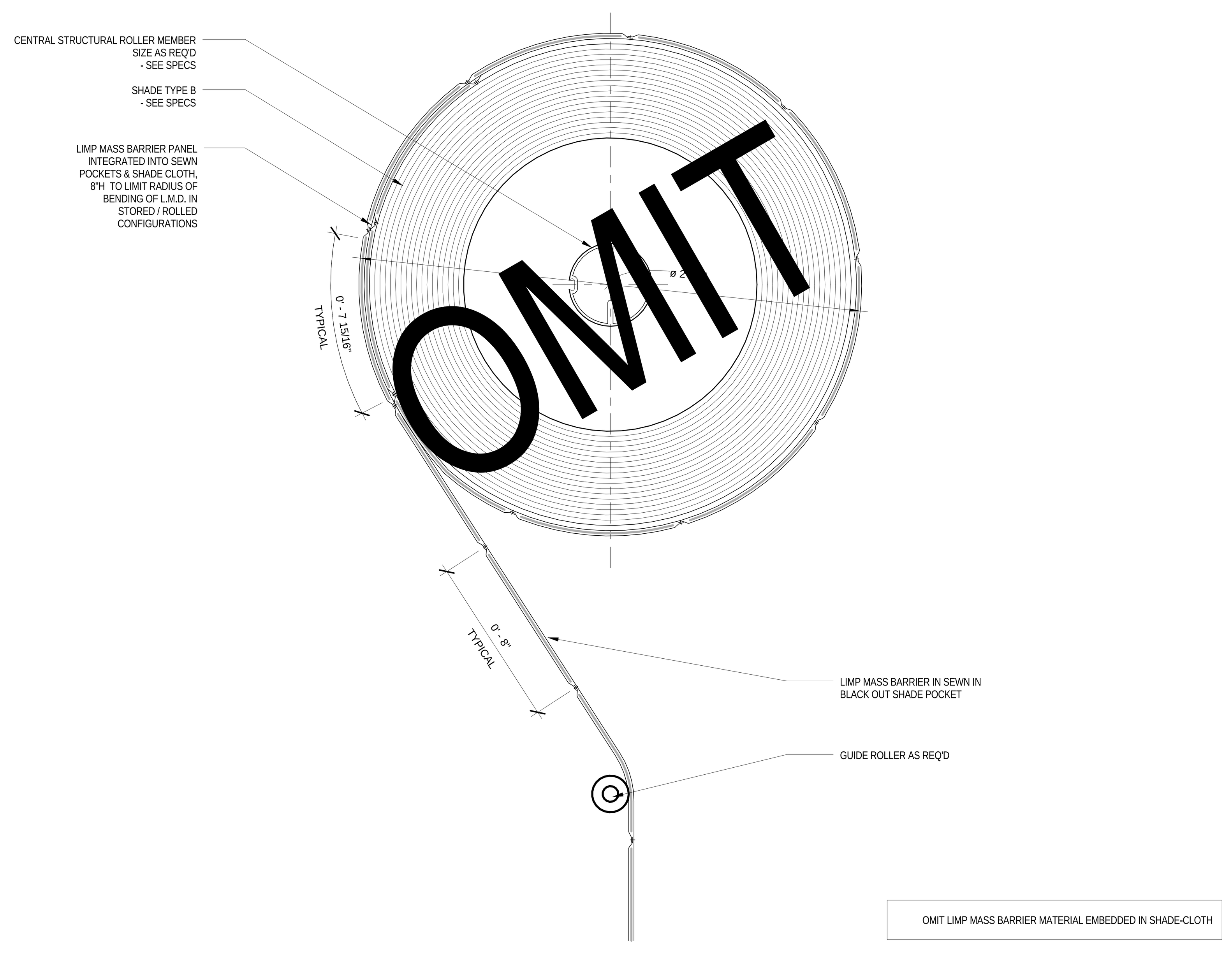


DIAGRAM OF SHADES EAST AT ROLLER | 1 | N.T.S.

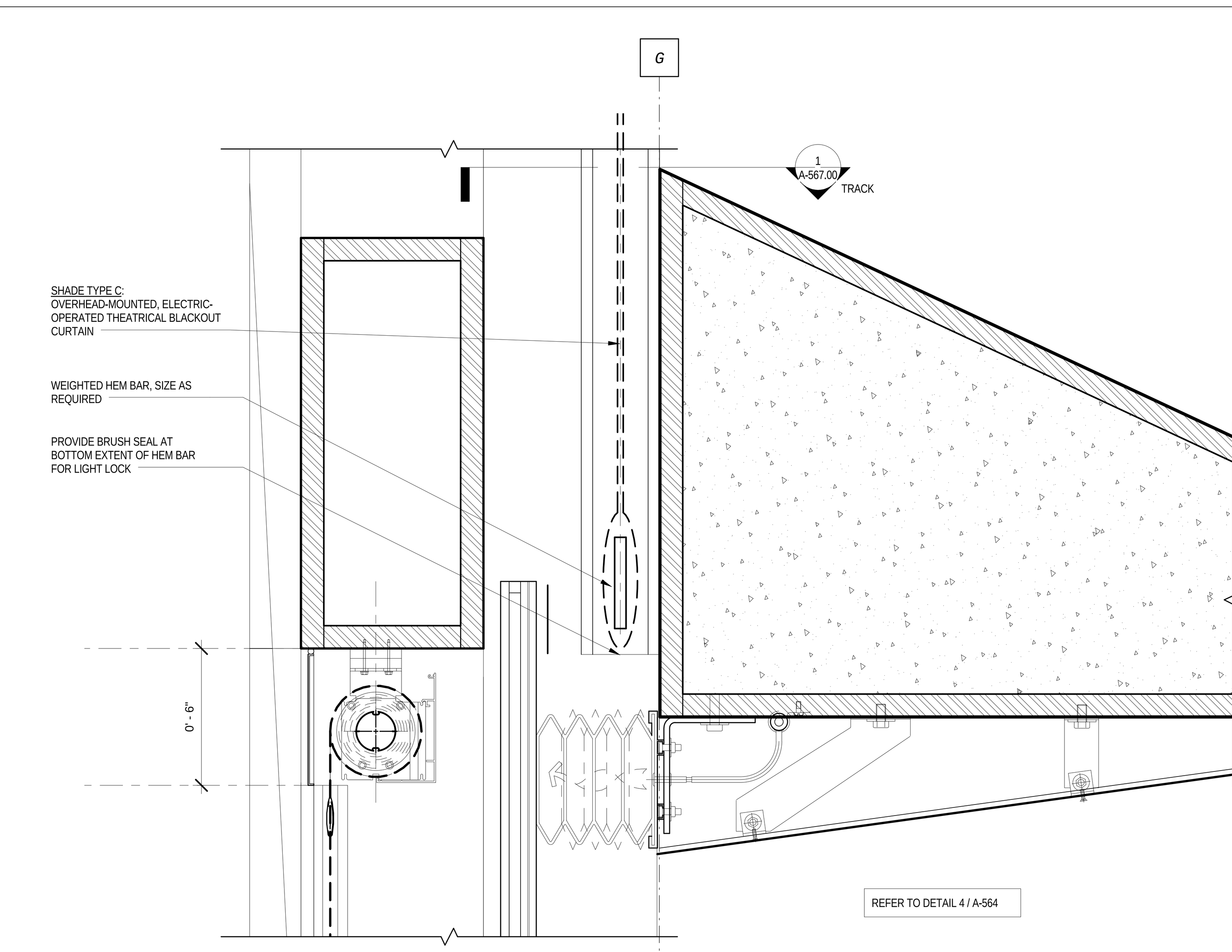


DETAIL@ SPECIALTY SHADES EAST - ROLLER | 2 | 1 1/2" = 1'-0"



OMIT LIMP MASS BARRIER MATERIAL EMBEDDED IN SHADE-CLOTH

DETAIL AT CURTAIN ROLL | 3 | 3" = 1'-0"



DETAIL@ SPECIALTY SHADES EAST - HEADER | 4 | 3" = 1'-0"

LEGEND

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Damian Titus
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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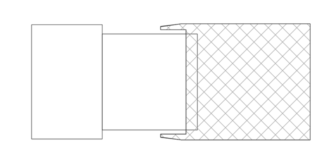

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4	2	ADV. PROCUREMENT ADDENDUM 2	10.22.2014
2		50% CONSTRUCTION DOCUMENTS	08.15.2014
1		ADV. PROCUREMENT BID SET	06.16.2014

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REGISTERED ARCHITECT
RICARDO SCOFIDIO
STATE OF NEW YORK
008800

DRAWN BY
HS

CHECKED BY
CB

PROJECT NUMBER
11017

TITLE
DETAILS - SPECIALTY THEATRICAL CURTAINS / SHADES

SCALE: As indicated

0 8 16 24

DRAWING NO.
A-557.00

B-SCAN NO.
A-557.00

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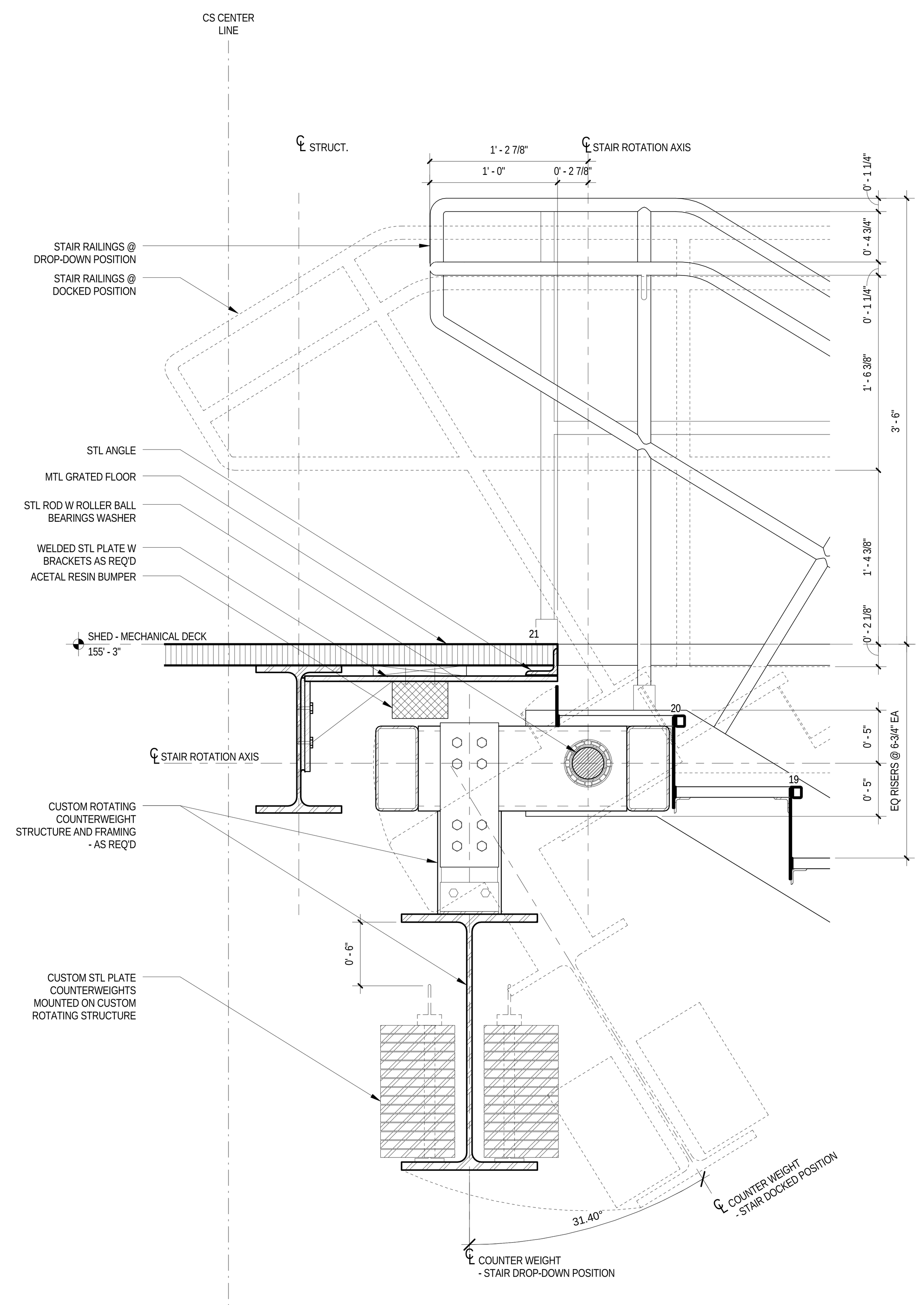
ES356090896 Scan Code



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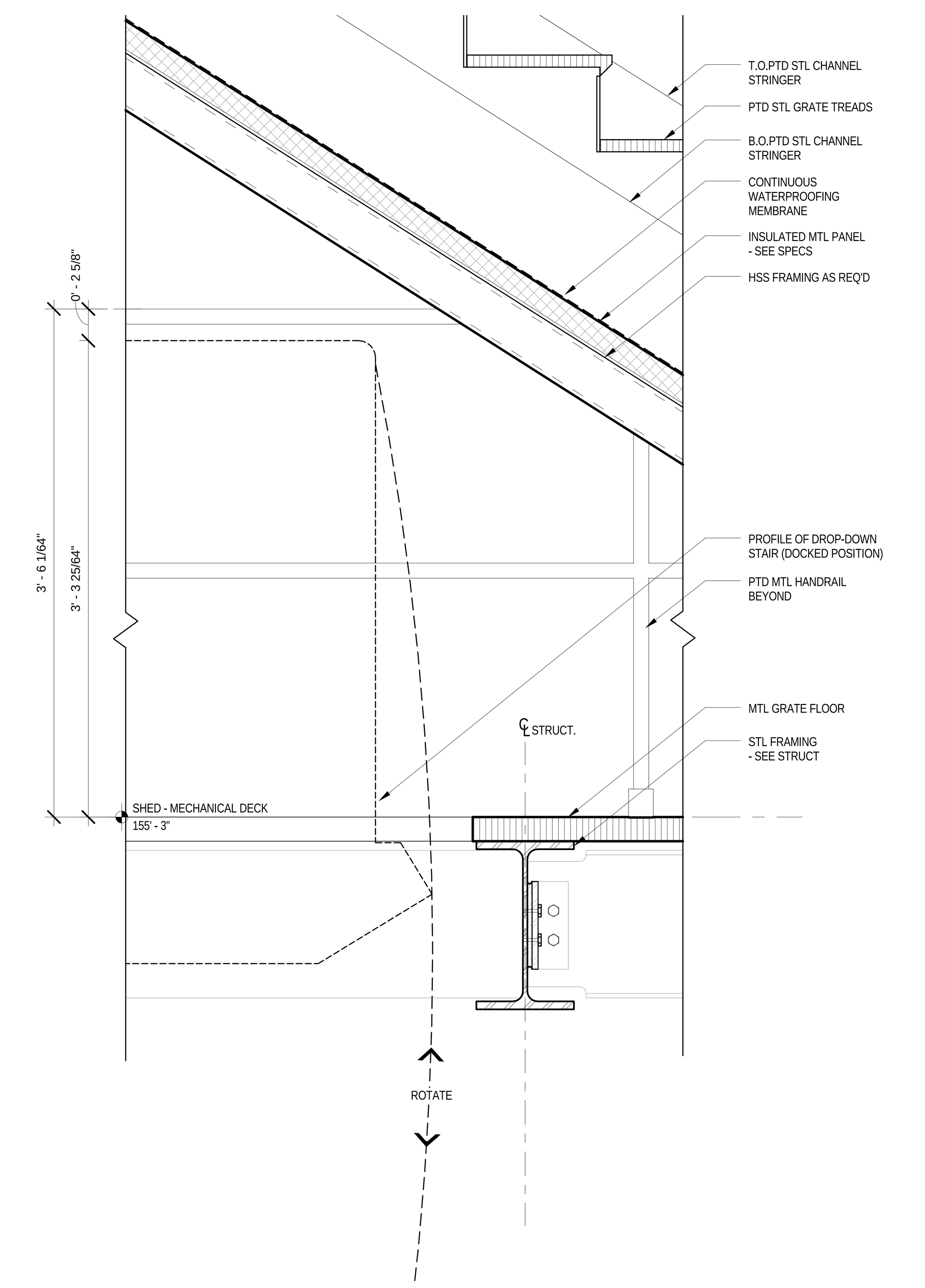

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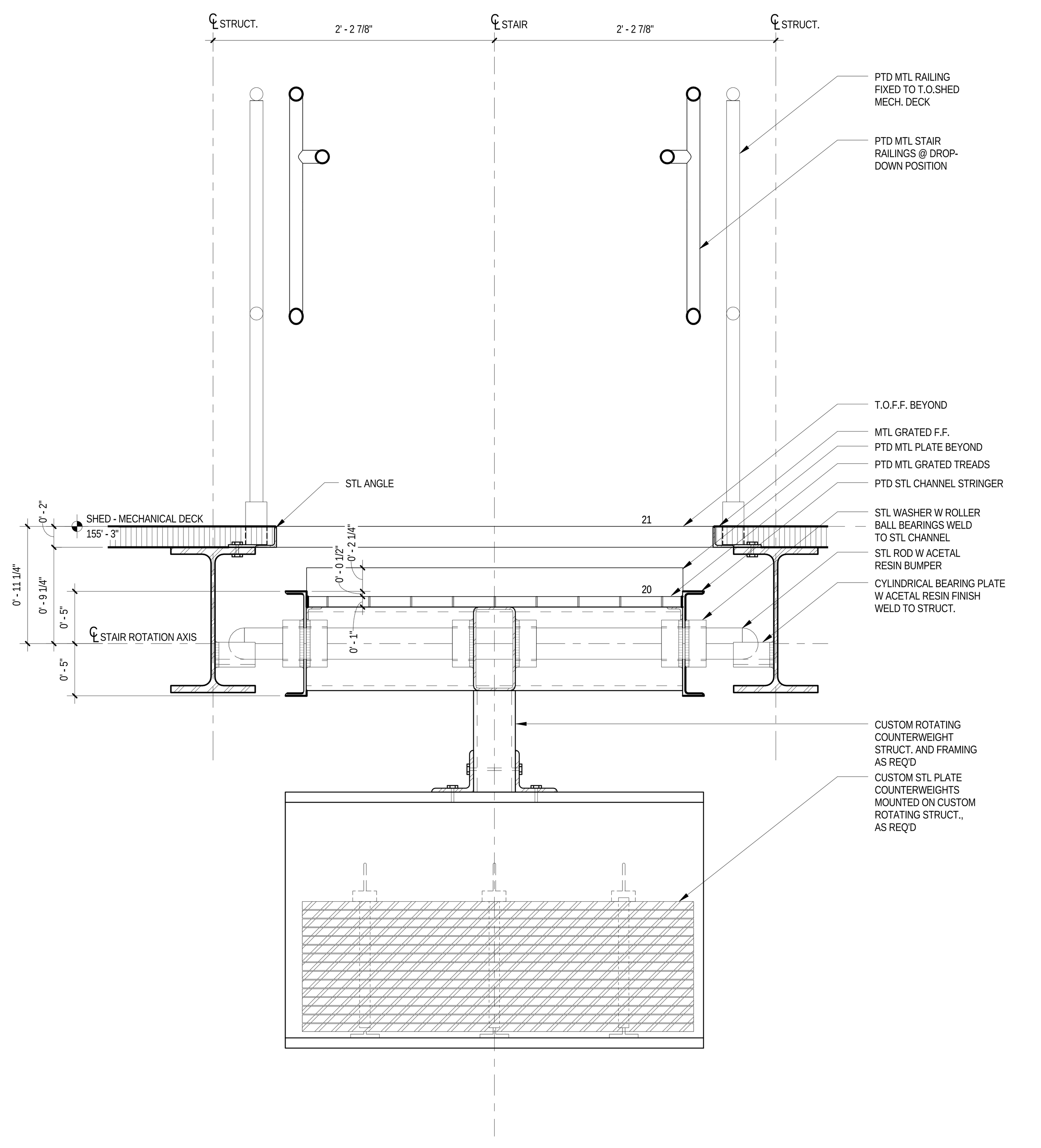

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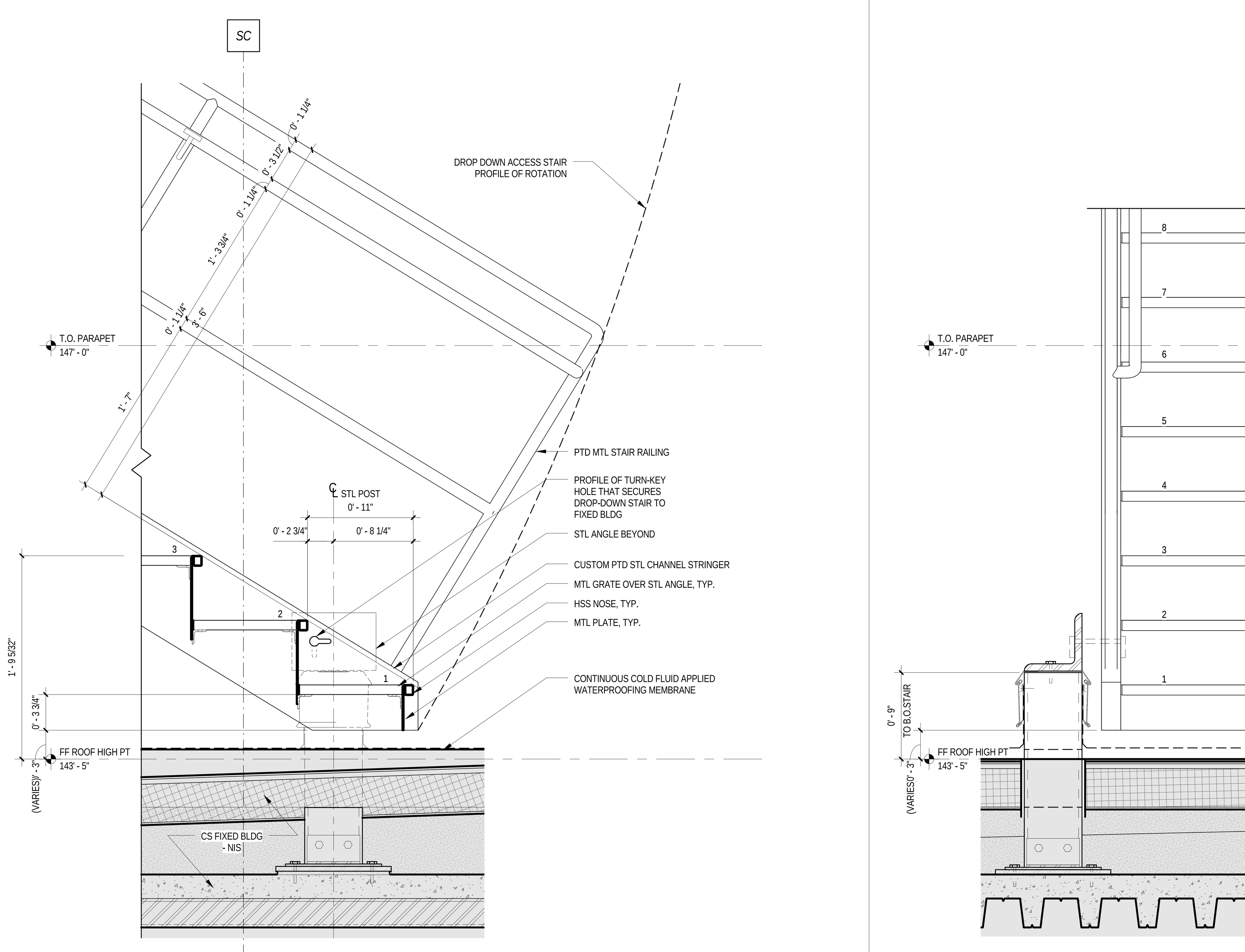

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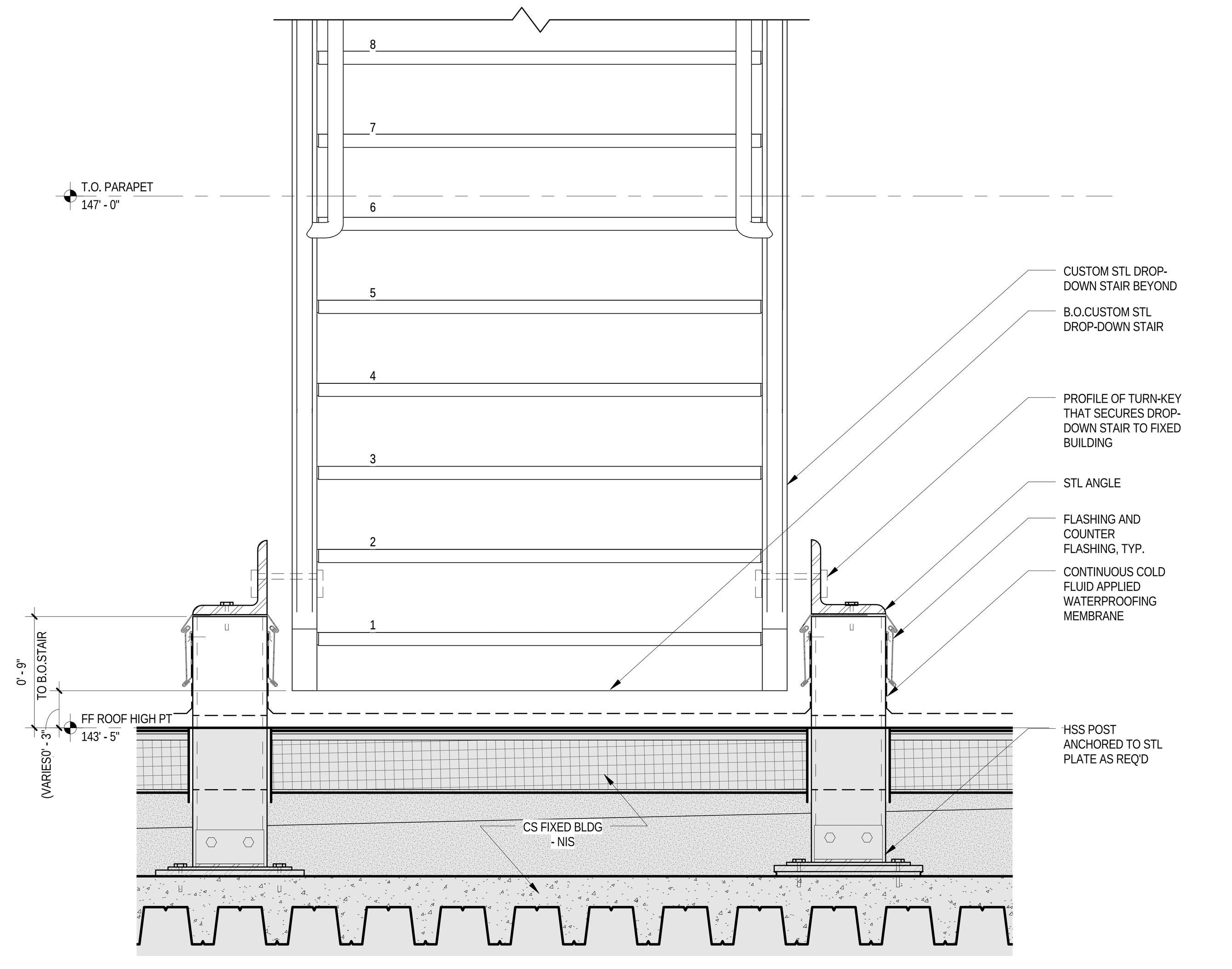

SECTION DETAIL - ACCESS STAIR A3 | 5 | 1 1/2" = 1'-0"

LEGEND

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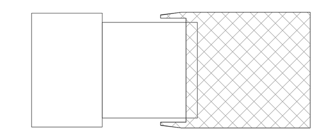

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REGISTERED ARCHITECT
RICARDO SCOFIDIO
008800
STATE OF NEW YORK

DRAWN BY YY
CHECKED BY CB

PROJECT NUMBER
11017

TITLE
DETAILS - SHED WEST ACCESS STAIRS

SCALE: 1 1/2" = 1'-0"

0 8 16 24

DRAWING NO.
A-558.00

B-SCAN NO.

A-558.00

178 of 291

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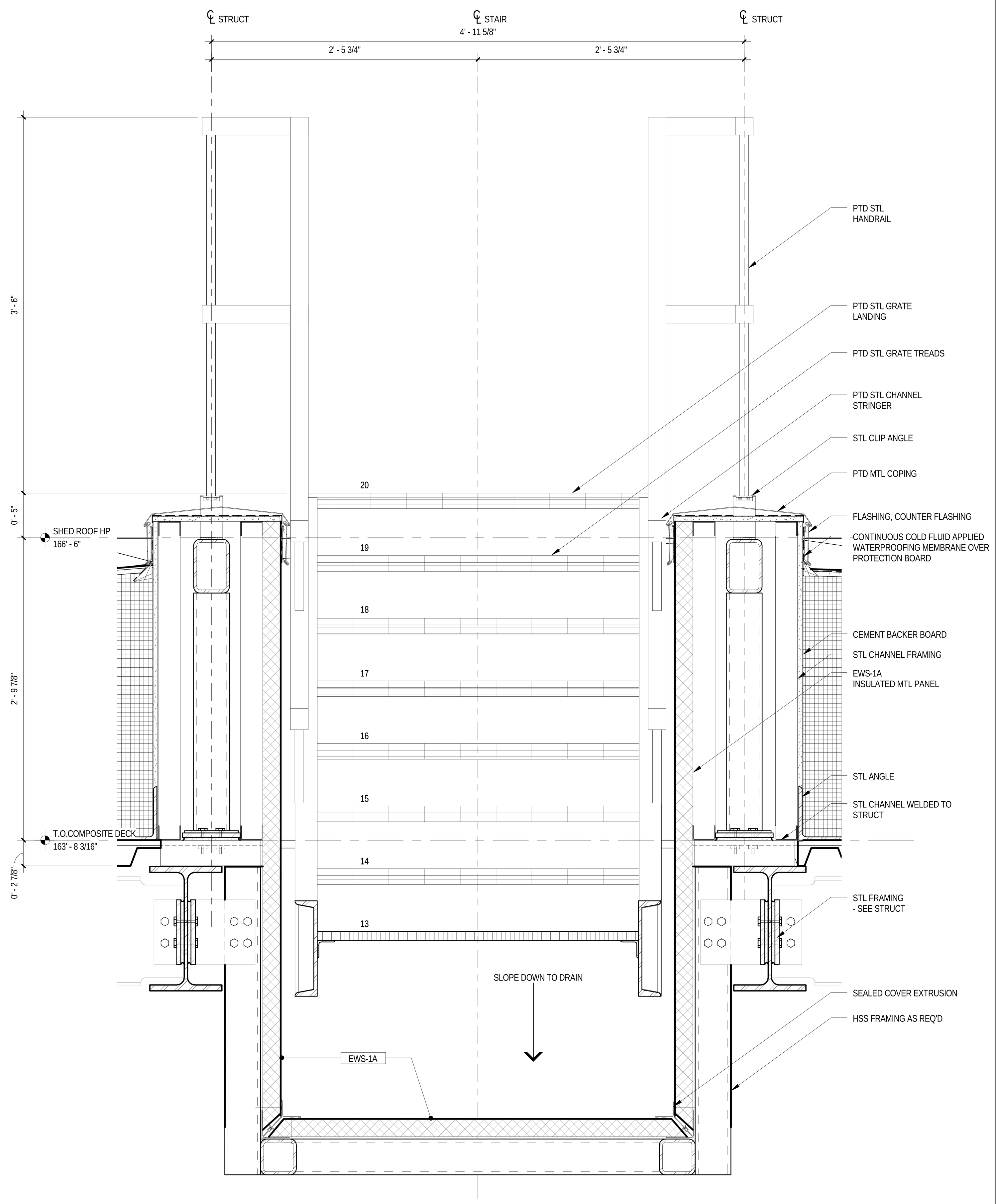

ENLARGED SECTION @ ACCESS STAIR (EW)
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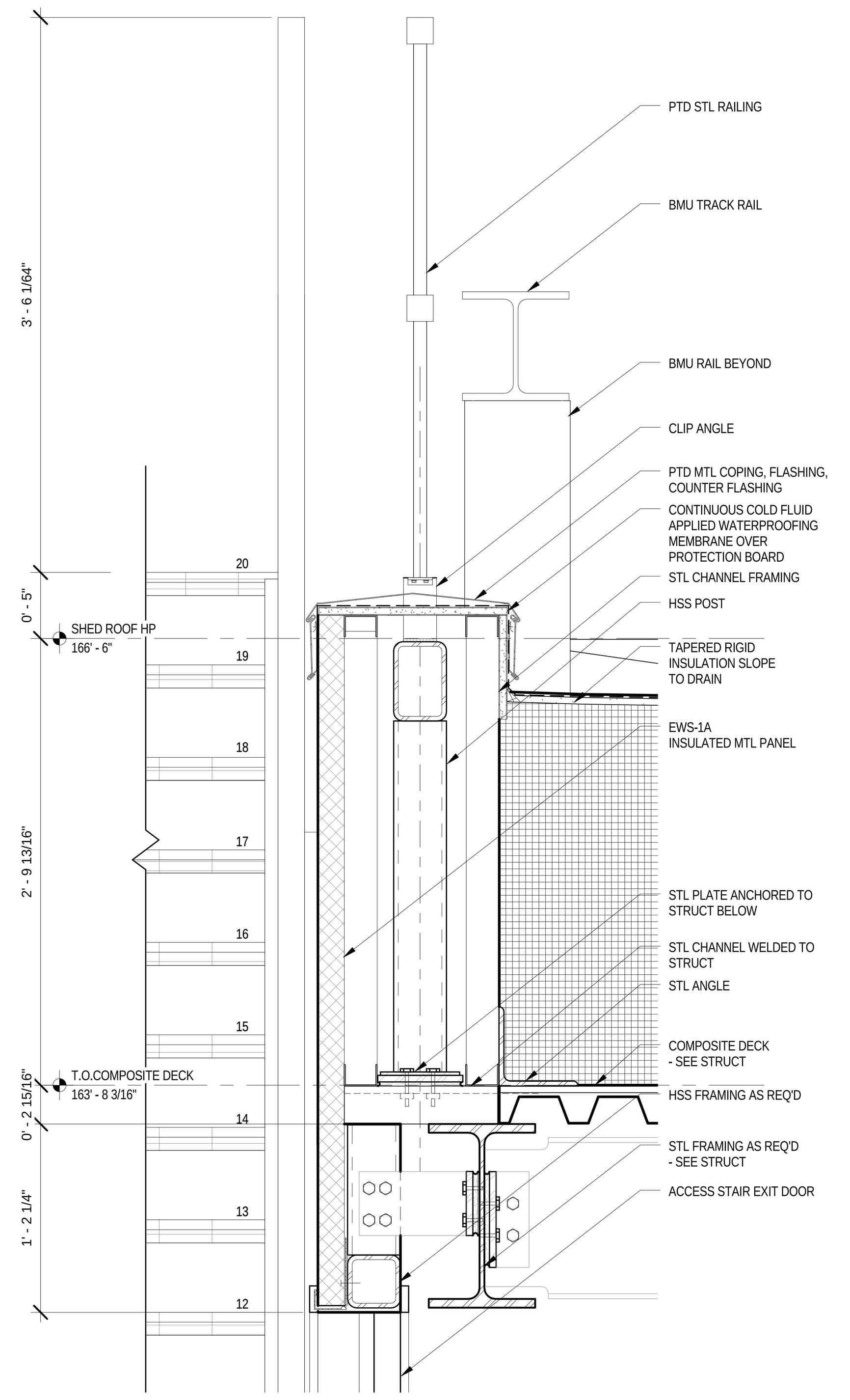

DETAIL - ACCESS STAIR DOOR HEAD
2
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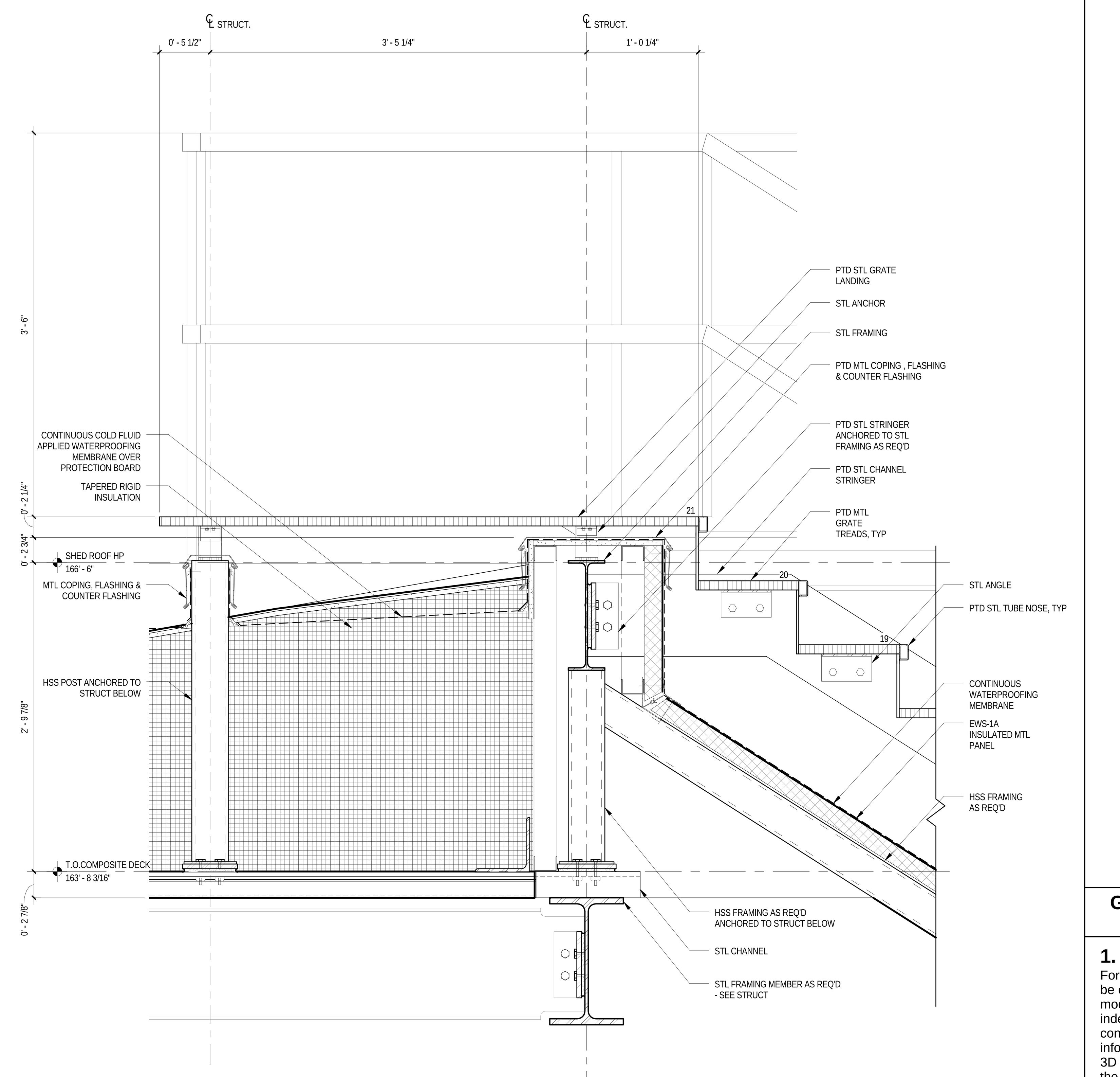

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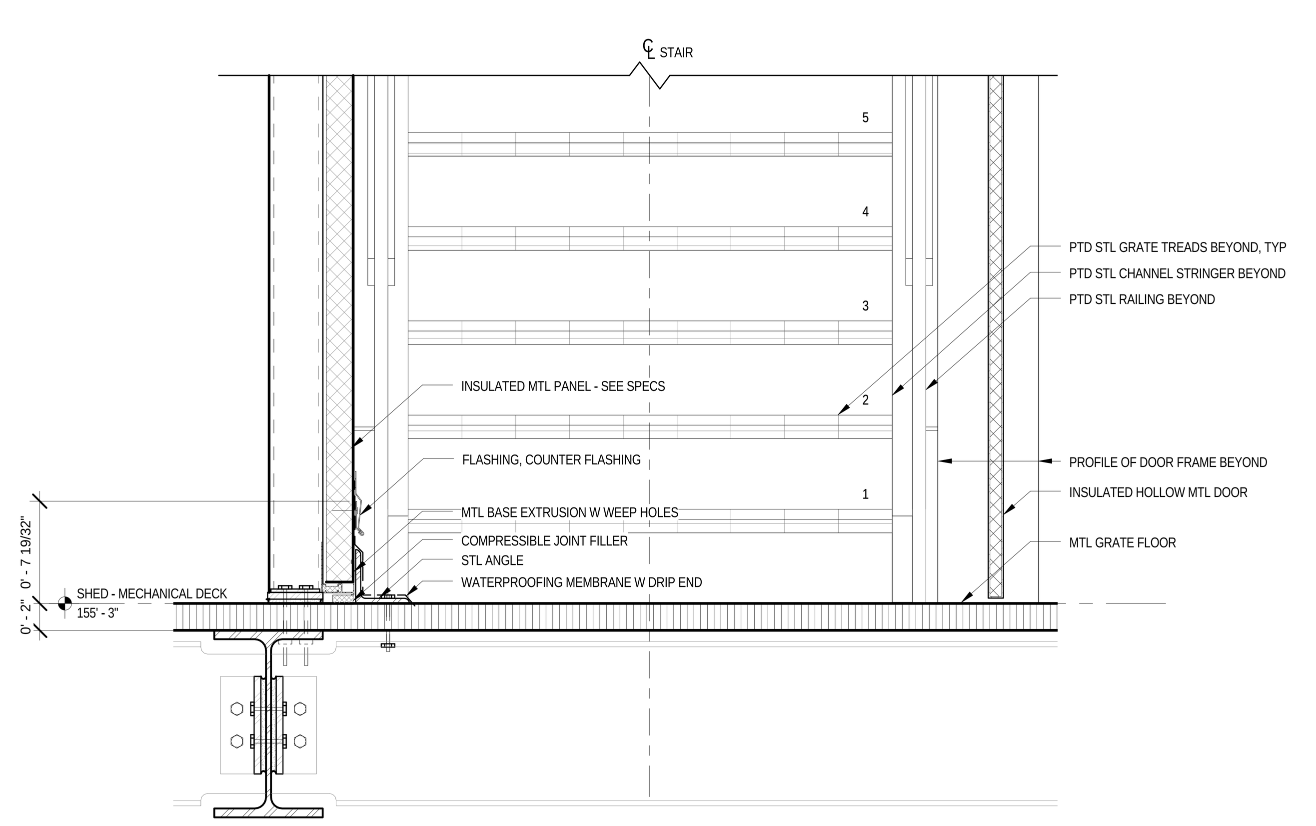

DETAIL - ACCESS STAIR BASE
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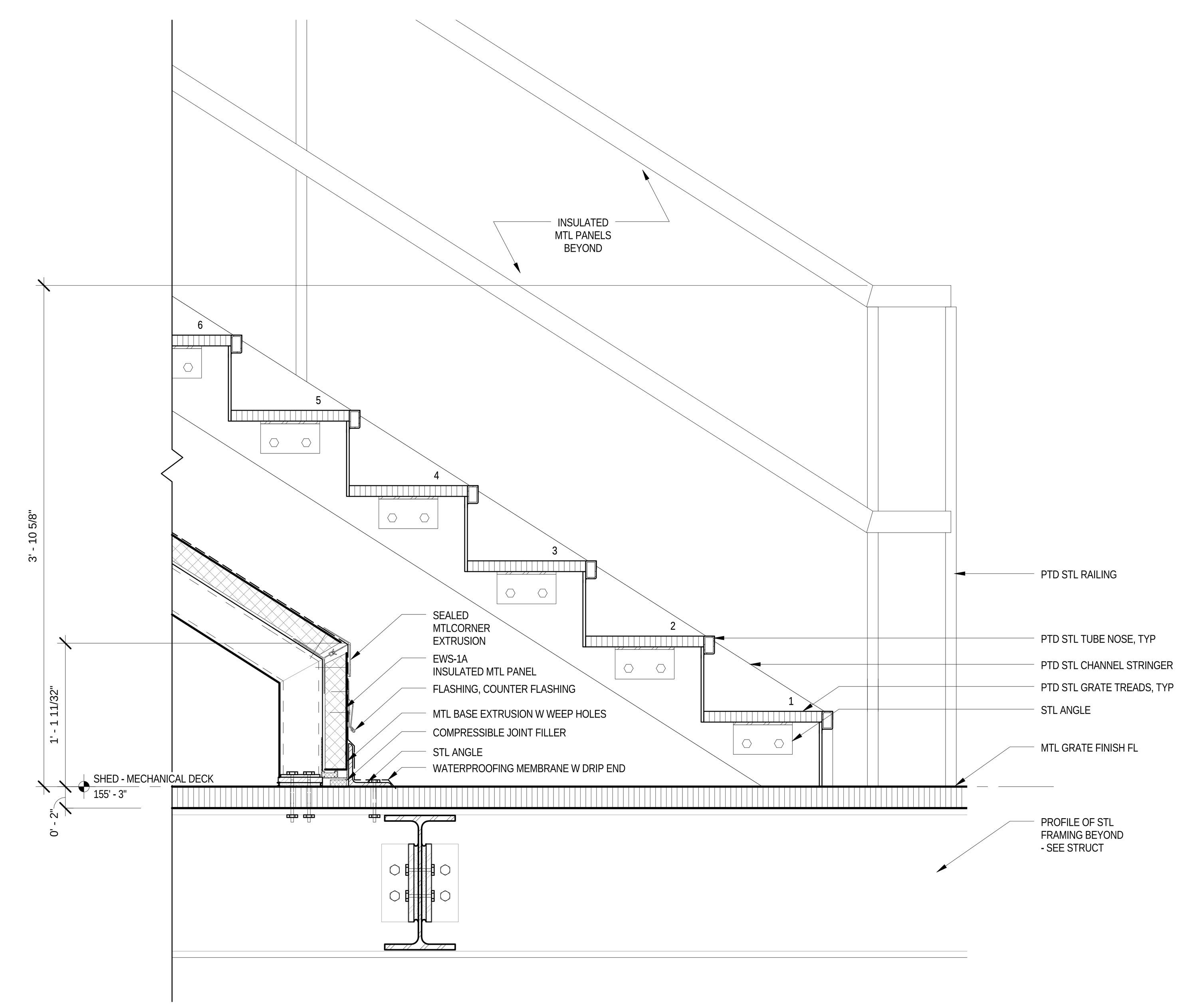

SECTION DETAIL - ACCESS STAIR A5
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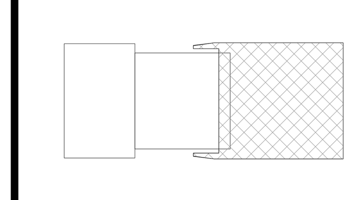

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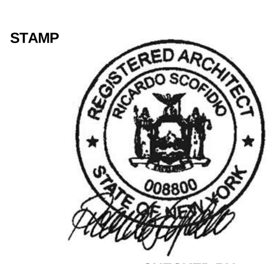

DRAWN BY YY
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0 8 16 24

DRAWING NO.
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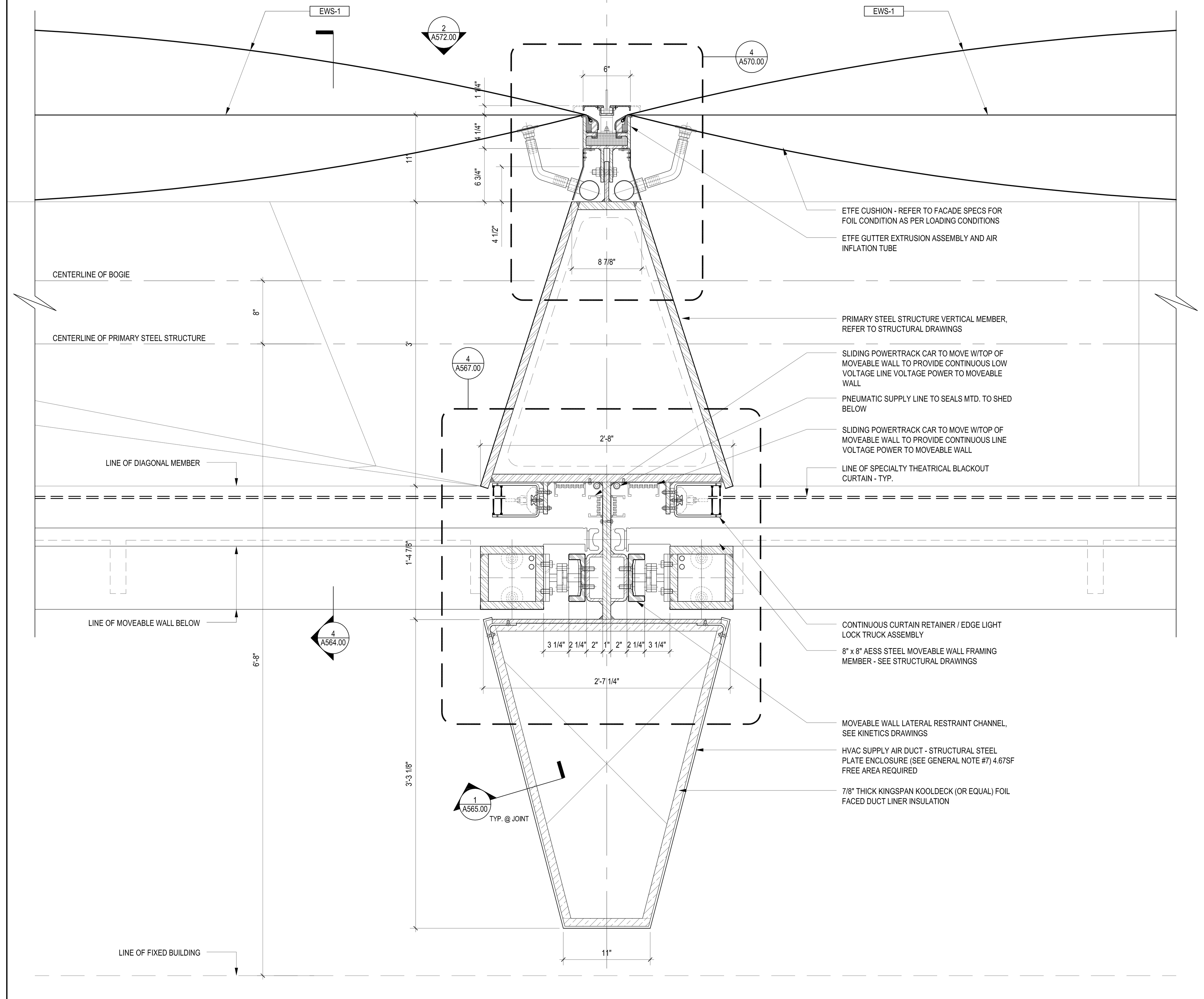
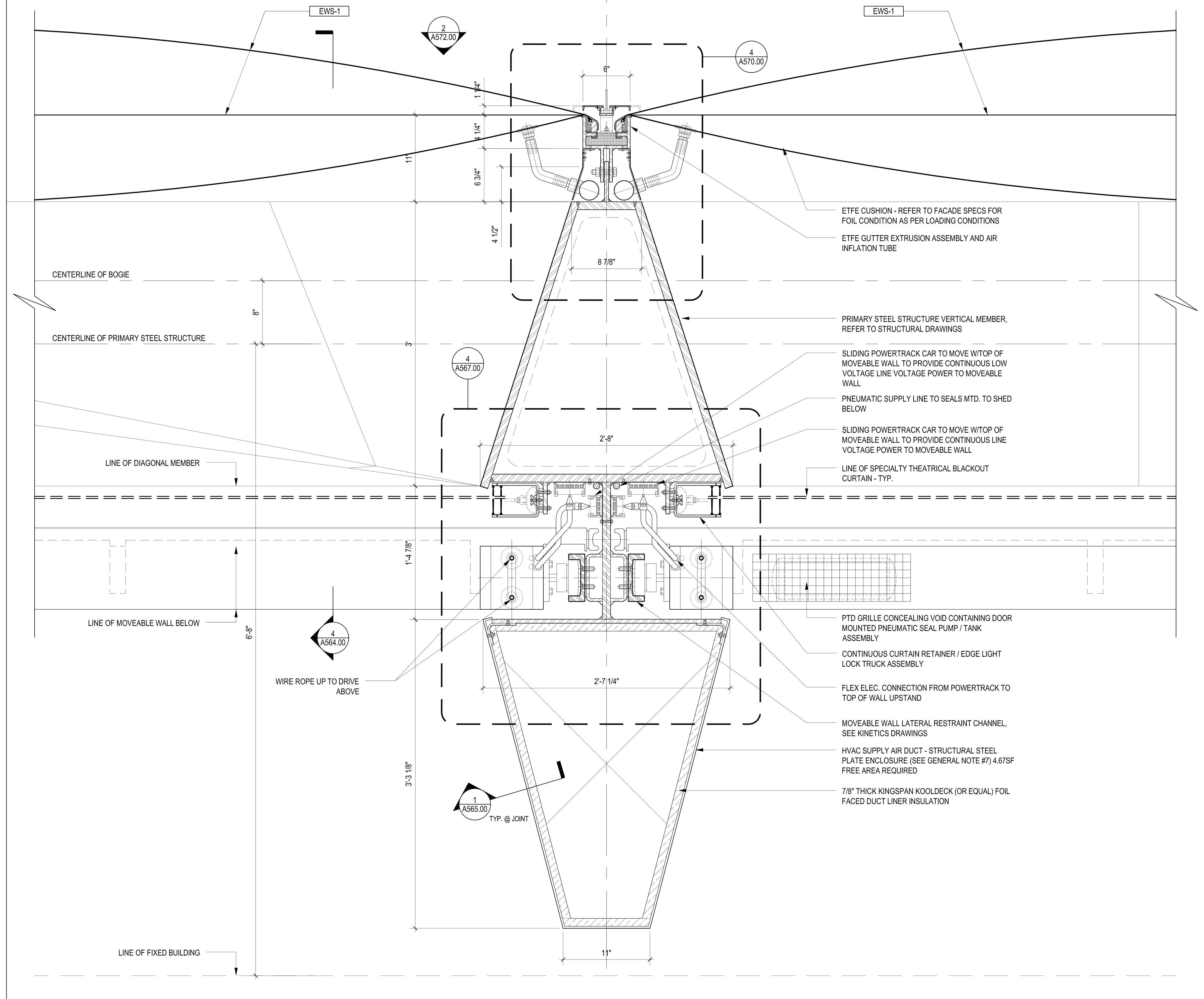
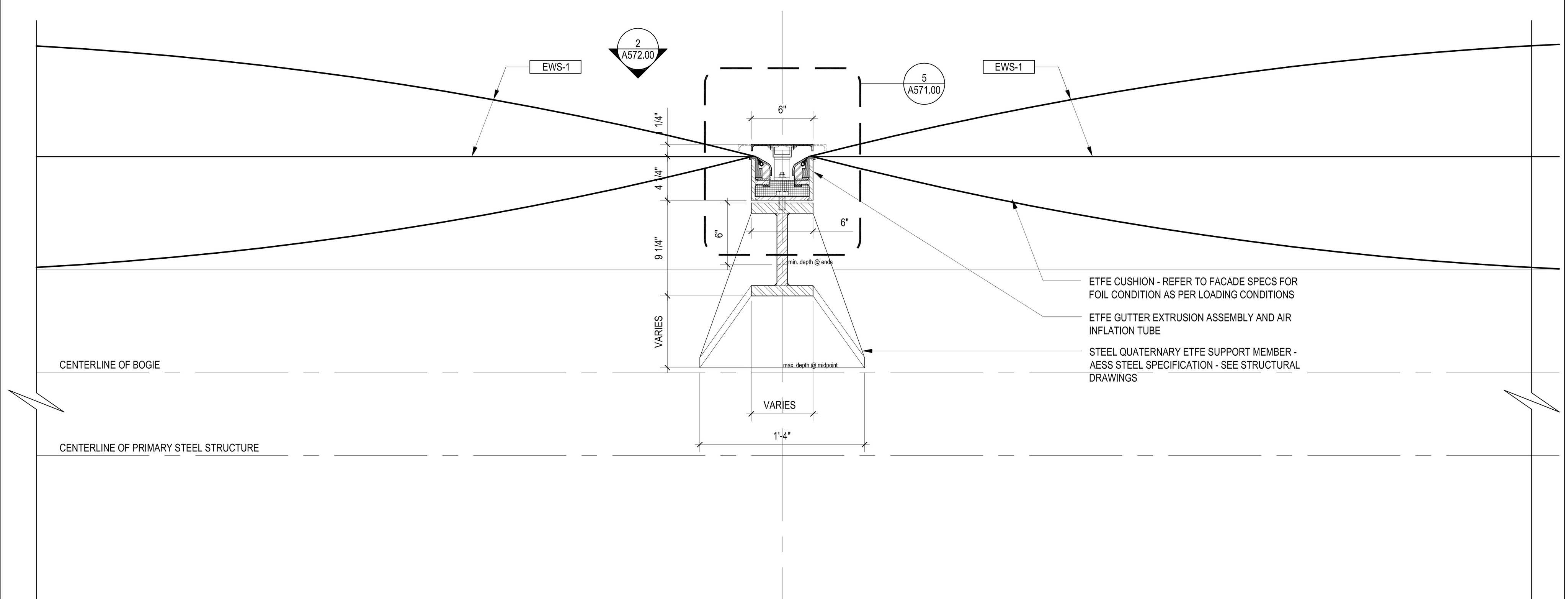
ES194005377 Scan Code



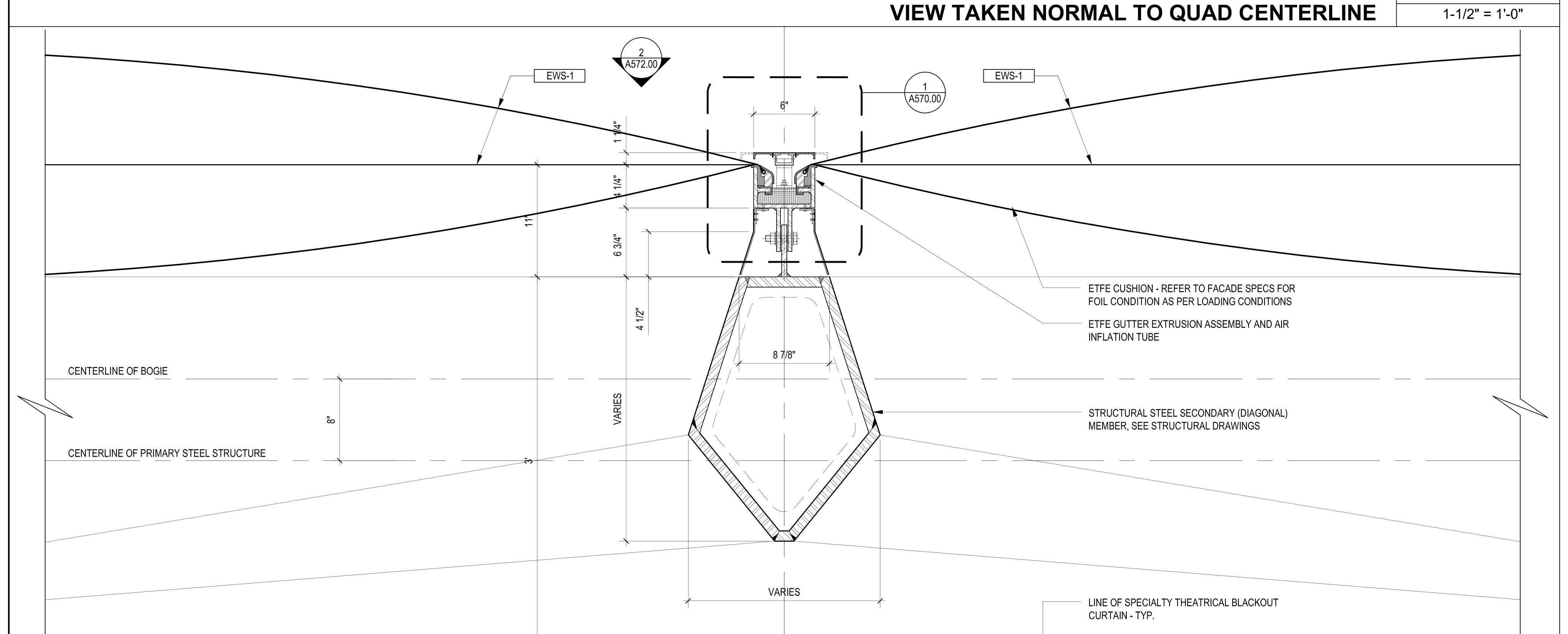
PLAN DETAIL AT VERTICAL
VIEW TAKEN IN THE MOVABLE WALL TRAVEL ZONE (30' - 45' A.F.F.) THROUGH DOOR UPSTAND — 1 — 1-1/2" = 1'-0"



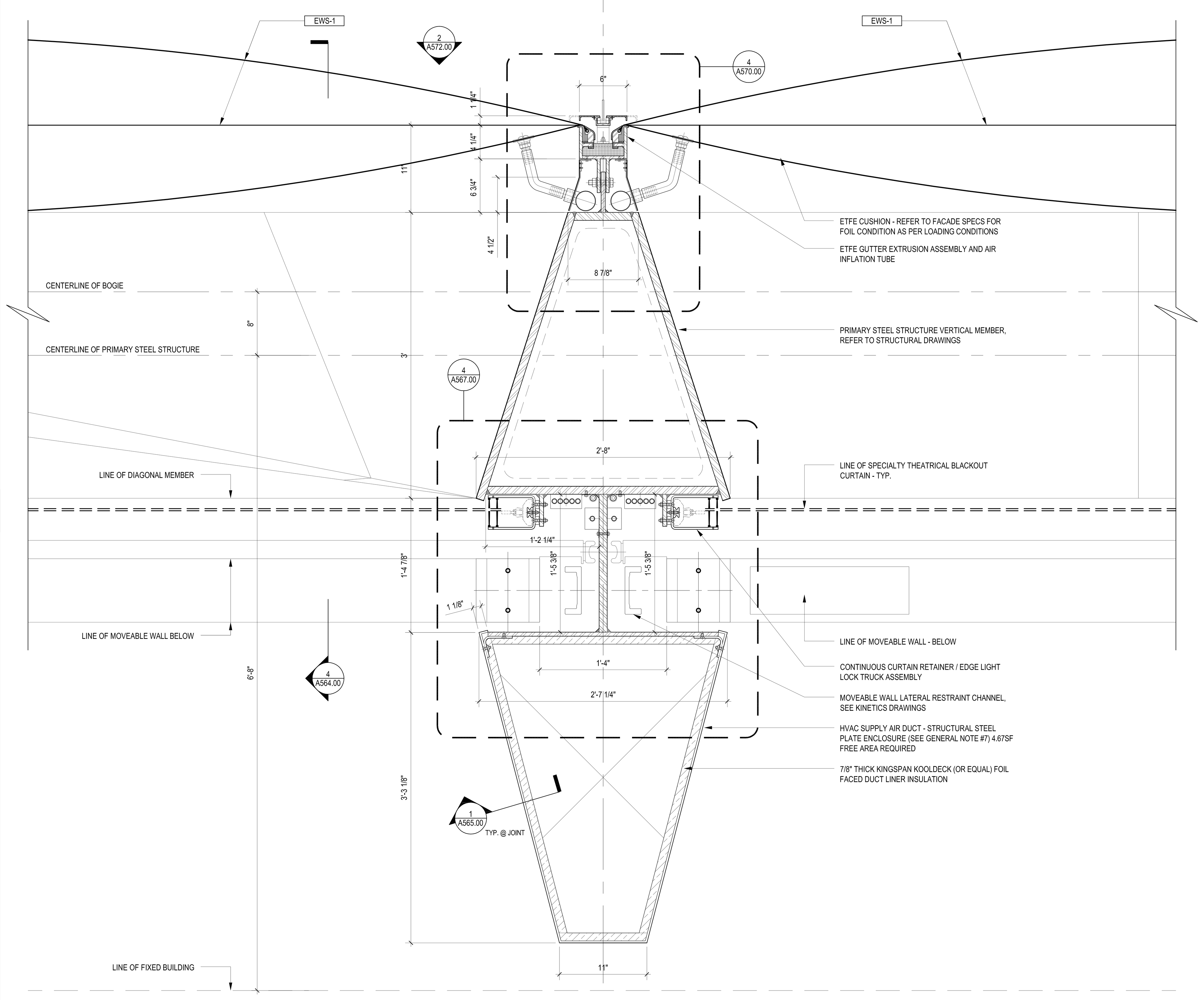
PLAN DETAIL AT VERTICAL
VIEW TAKEN IN THE MOVABLE WALL TRAVEL ZONE (30' - 45' A.F.F.) ABOVE DOOR UPSTAND — 2 — 1-1/2" = 1'-0"



PLAN DETAIL AT QUATERNARY MEMBER
VIEW TAKEN NORMAL TO QUAD CENTERLINE — 3 — 1-1/2" = 1'-0"



PLAN DETAIL AT DIAGONAL MEMBER
VIEW TAKEN NORMAL TO DIAG. CENTERLINE — 4 — 1-1/2" = 1'-0"



PLAN DETAIL AT VERTICAL
VIEW TAKEN ABOVE THE MOVABLE WALL TRAVEL ZONE — 5 — 1-1/2" = 1'-0"

LEGEND

GENERAL NOTES

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3. Typical N/S wall node:
The geometry created by the intersecting main verticals and diagonals shall be in accordance with the 3D model and follow, as a minimum, the quality exhibited in the approved mock-up. The general concept is that edges flow smoothly and continuously between the straight edge of a diagonal through a curve to the adjacent edge of the vertical and the interlying surfaces between these edges are blended and contoured to define a smooth, uninterrupted transition.

4. Typical Node Elsewhere:
The geometry created by the intersecting elements shall be in accordance with the 3D model. The level of quality is to be similar to the approved mock-up for the typical node. The general concept is that edges flow smoothly and continuously between the edge of one element to the corresponding edge of the adjacent element and the interlying surfaces between these edges are blended and contoured to define a smooth, uninterrupted transition.

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6. Structural steel cladding enclosing selected areas of the Shed (referred to as EWS-1c) shall be in the scope of the steel contractor for continuity with adjacent primary steel members. Criteria for tolerance and flatness to match that of the structural steel (see structural drawings & specifications). Plate configuration, including thickness, internal stiffeners and diaphragms, to be proposed by the fabricator and subject to agreement with the Architect and Engineer to provide an enclosure which satisfies the aesthetic and structural requirements. Refer to 3D model for extent of EWS-1c.

7. Visually exposed HVAC supply and return ducts in the Shed, shown herein, are to be in the scope of the steel contractor to ensure continuity of appearance with primary steel. Criteria for tolerance and flatness to match that of the structural steel (see structural drawings & specifications). Plate configuration, including thickness, internal stiffeners and diaphragms, to be proposed by the fabricator and subject to agreement with the Architect and Engineer to provide an enclosure which satisfies the aesthetic and structural requirements. The mechanical ductwork carries its own self-weight and is not a primary load-bearing element. Internal stiffening may not create interference with airflow requirements of the duct. Refer to 3D model.

Damian Theo
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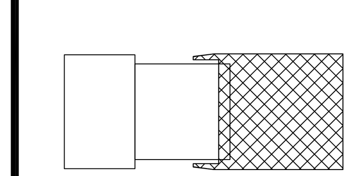
KEY PLAN



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1		ADV. PROCUREMENT BID SET	06.16.2014

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REGISTERED ARCHITECT RICARDO SCOFIDIO 008800 STATE OF NEW YORK

DRAWN BY Author
CHECKED BY Checker

PROJECT NUMBER
11017

TITLE
TITLEBLOCK
Shed - Typical Framing & Cladding Details
SCALE: 1-1/2" = 1'-0"

0 8 16 24

DRAWING NO.
A-560.00

B-SCAN NO.

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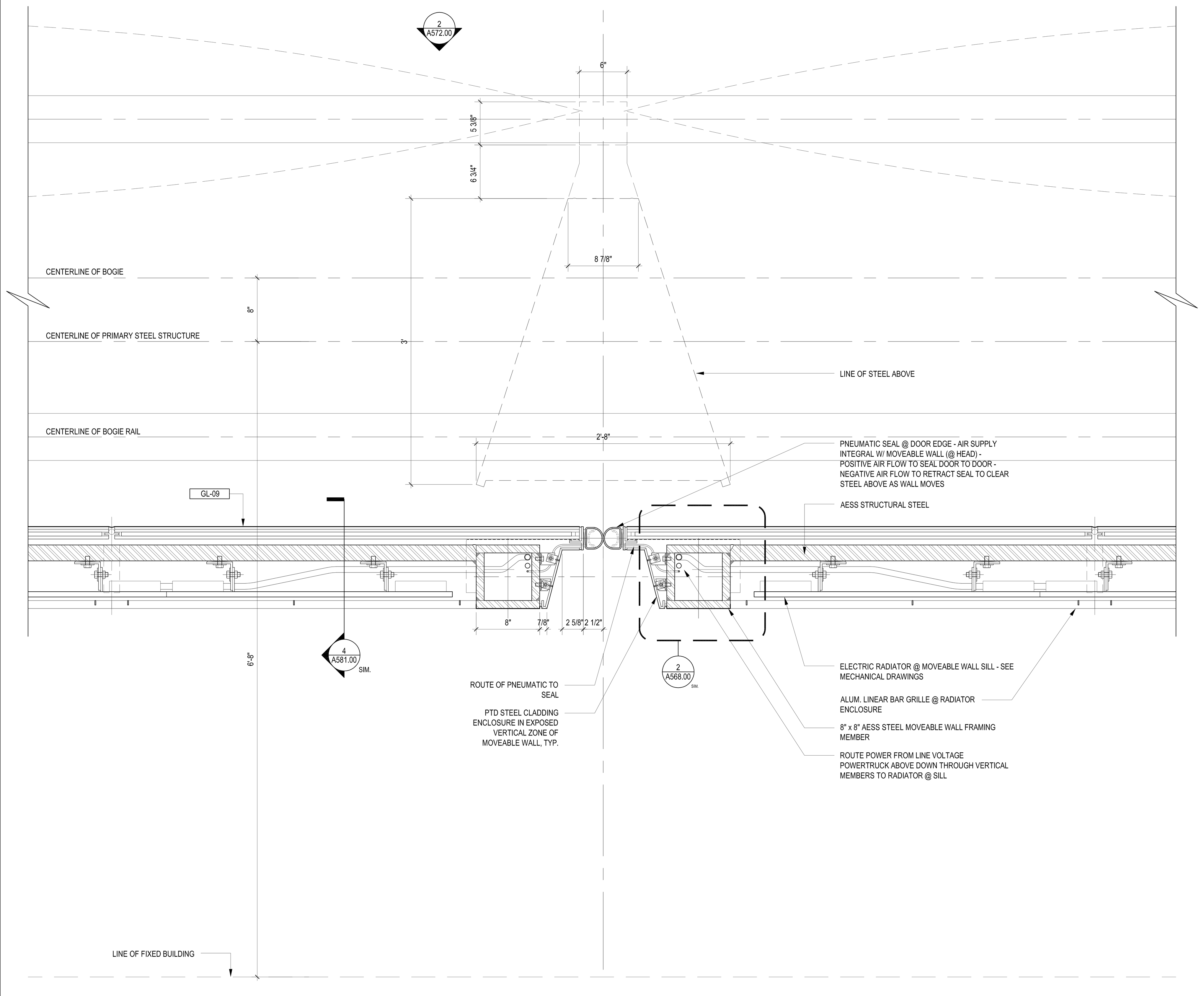
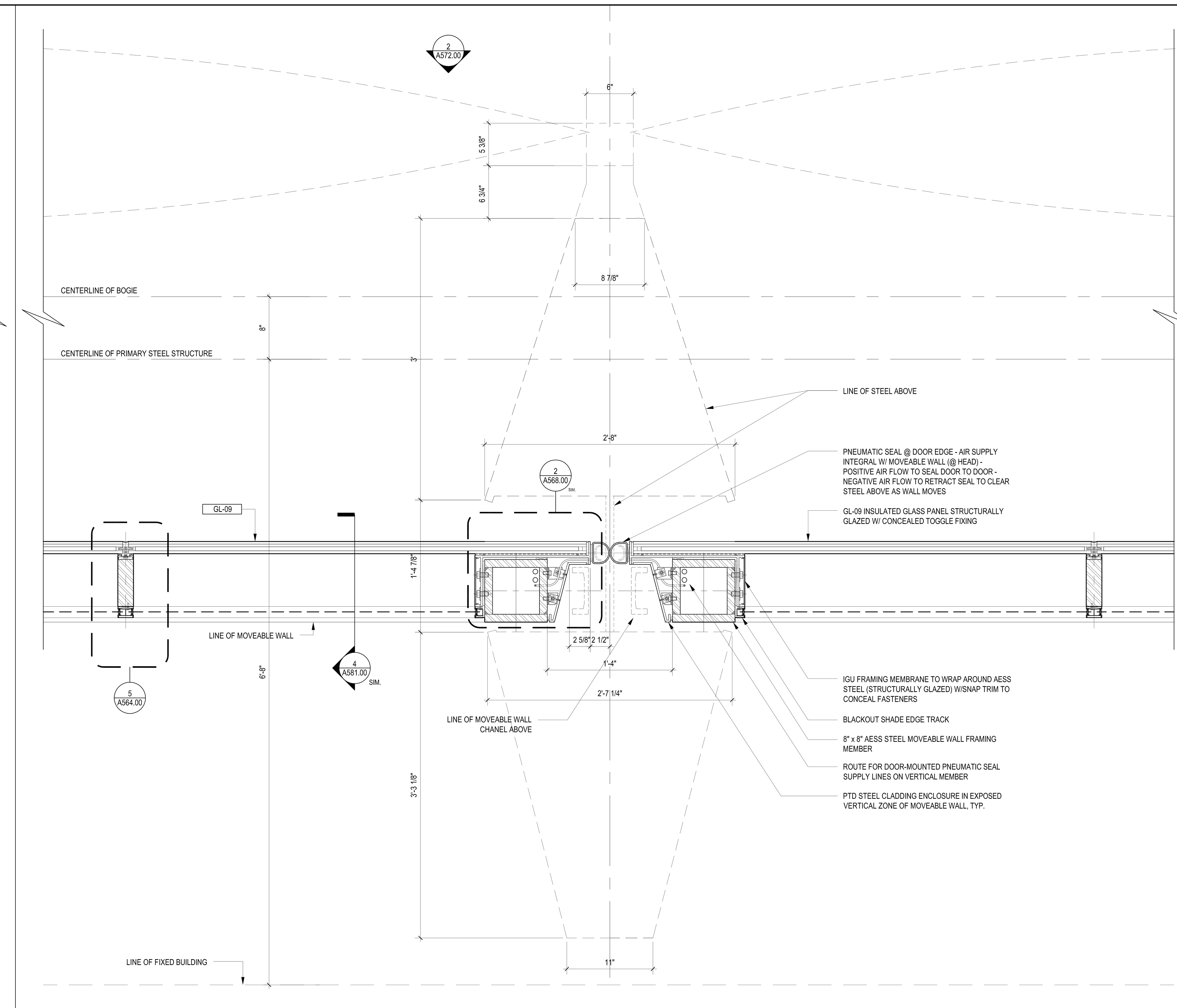
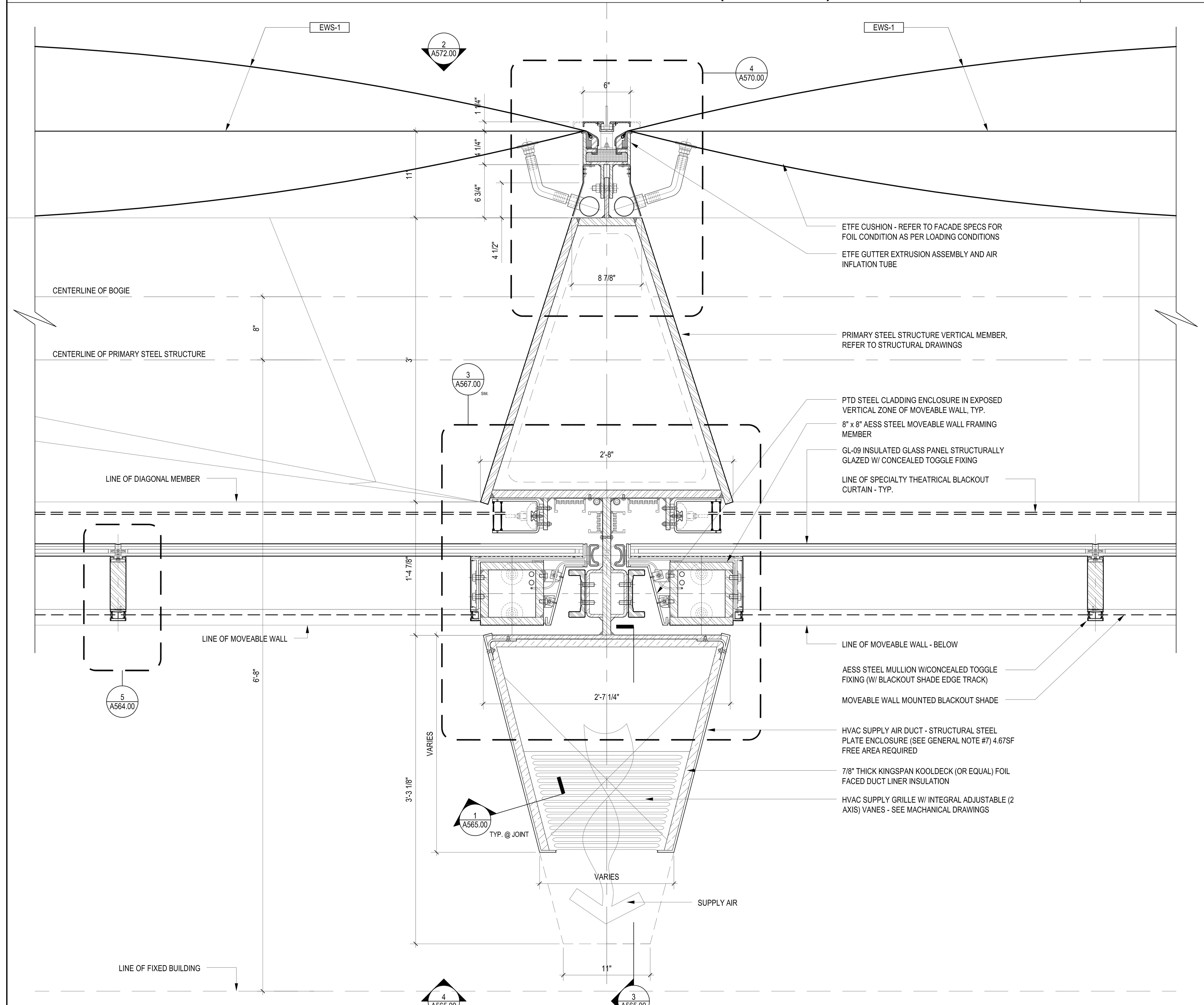


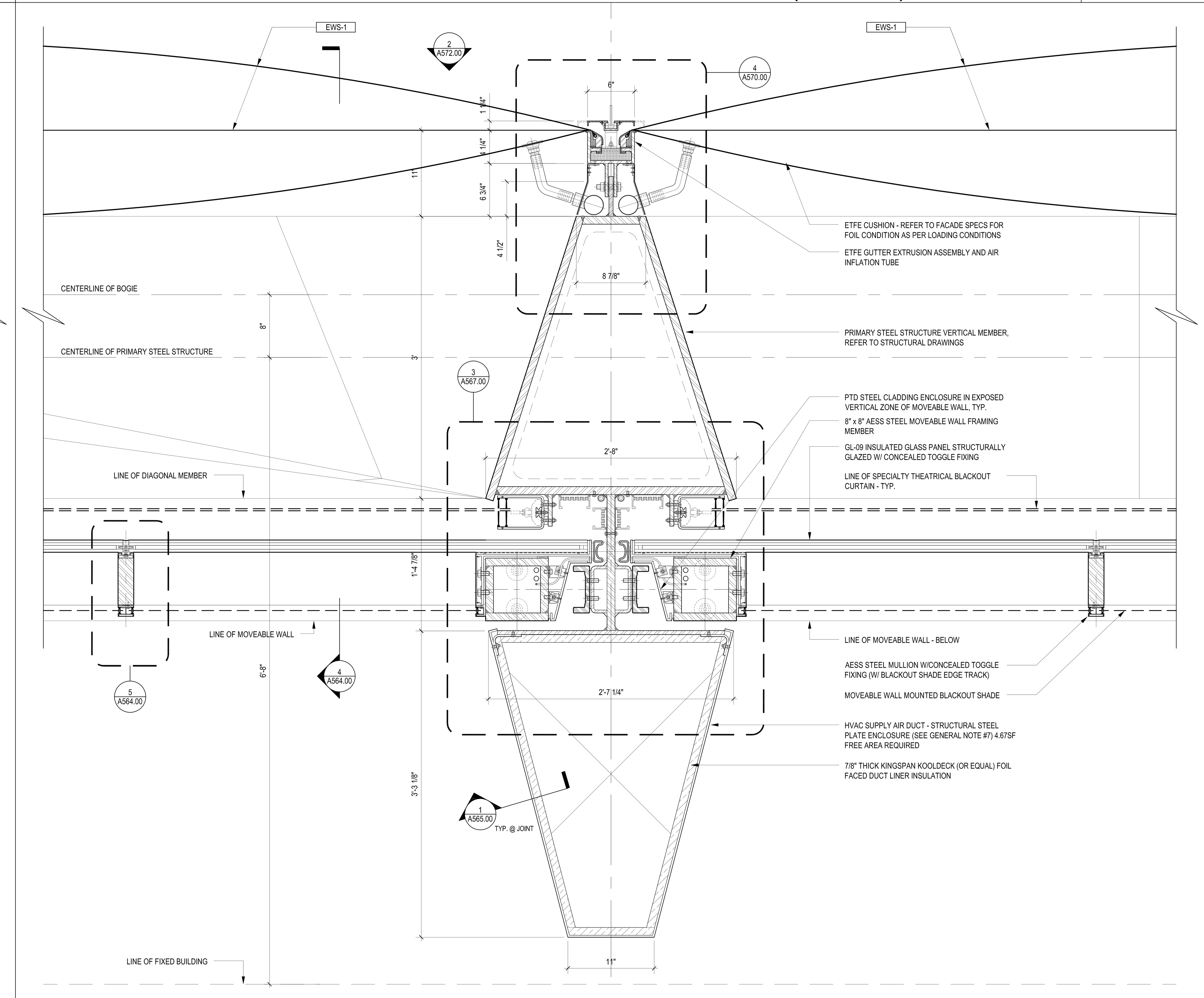
PLAN DETAIL AT VERTICAL
VIEW TAKEN AT MOVABLE WALL TRAVEL ZONE (0' - 30' A.F.F.) THROUGH SILL / RADIATOR
1
1-1/2" = 1'-0"



PLAN DETAIL AT VERTICAL
VIEW TAKEN AT MOVABLE WALL TRAVEL ZONE (0' - 30' A.F.F.) WITH WALL DOWN
2
1-1/2" = 1'-0"



PLAN DETAIL AT VERTICAL
VIEW TAKEN IN THE MOVABLE WALL TRAVEL ZONE (30' - 45' A.F.F.) AT HVAC OUTLET
3
1-1/2" = 1'-0"



PLAN DETAIL AT VERTICAL
VIEW TAKEN IN THE MOVABLE WALL TRAVEL ZONE (30' - 45' A.F.F.) WITH WALL UP
4
1-1/2" = 1'-0"

LEGEND

GENERAL NOTES

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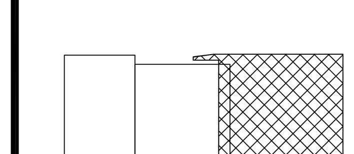

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SCALE: 1-1/2" = 1'-0"

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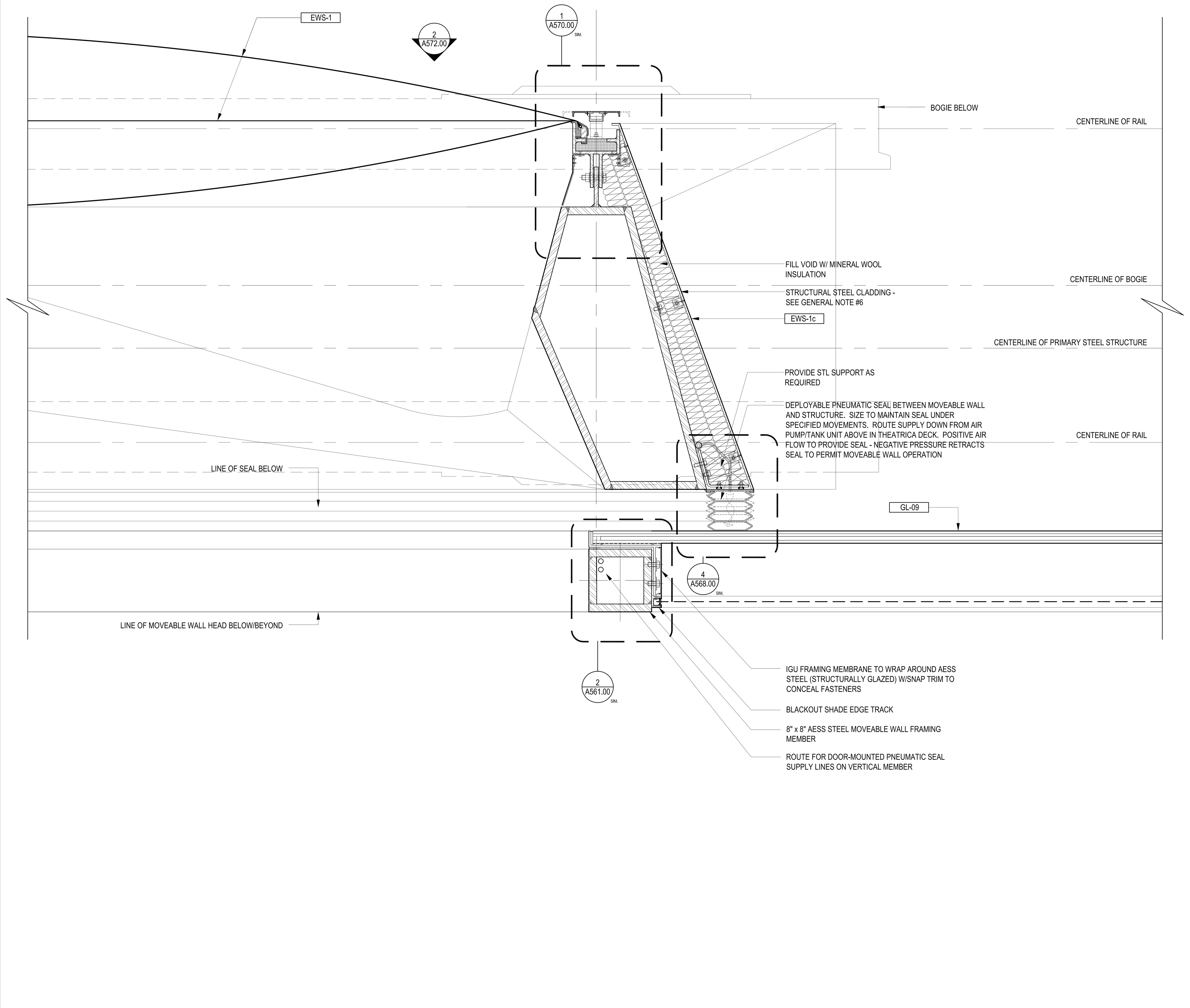
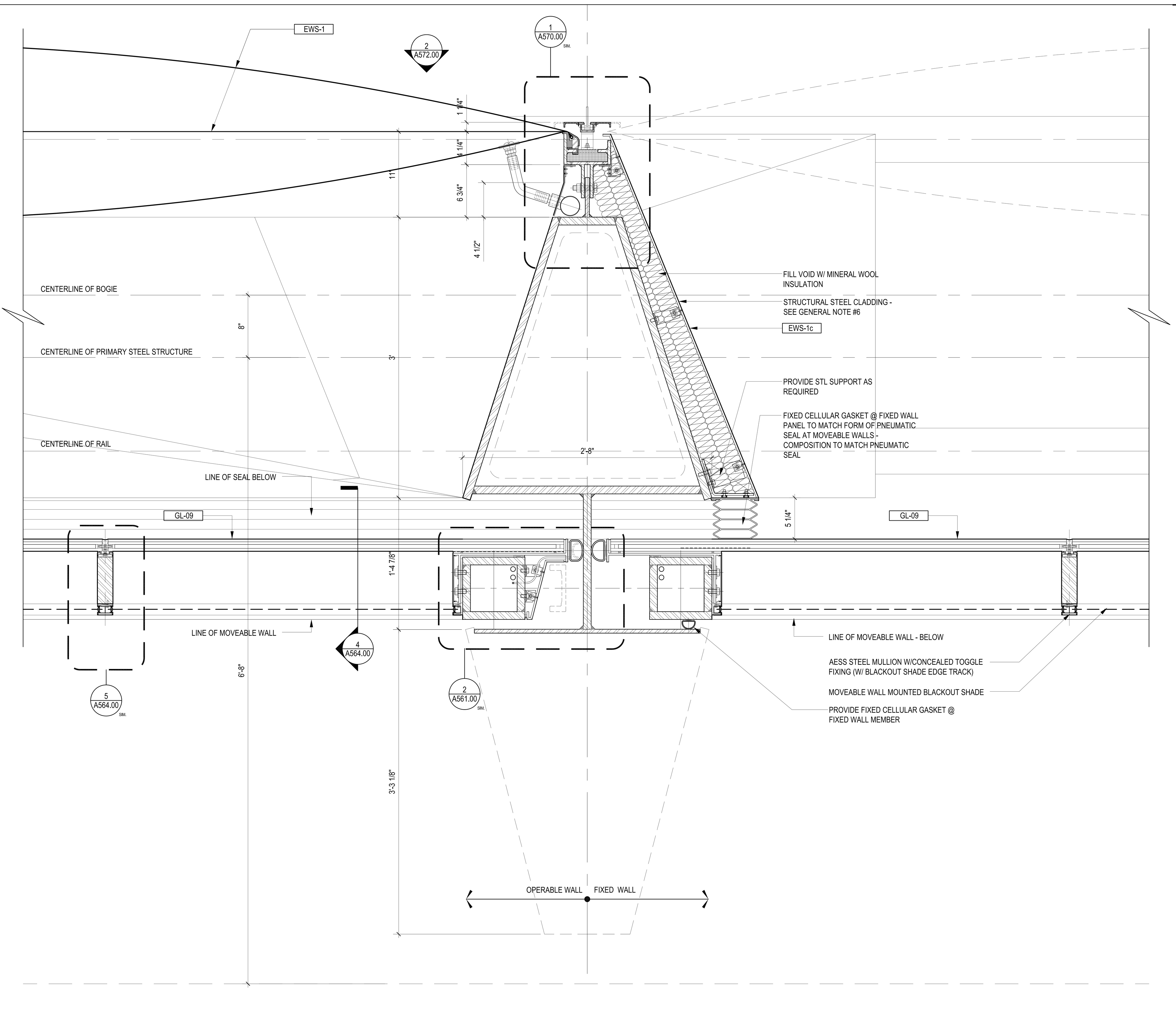
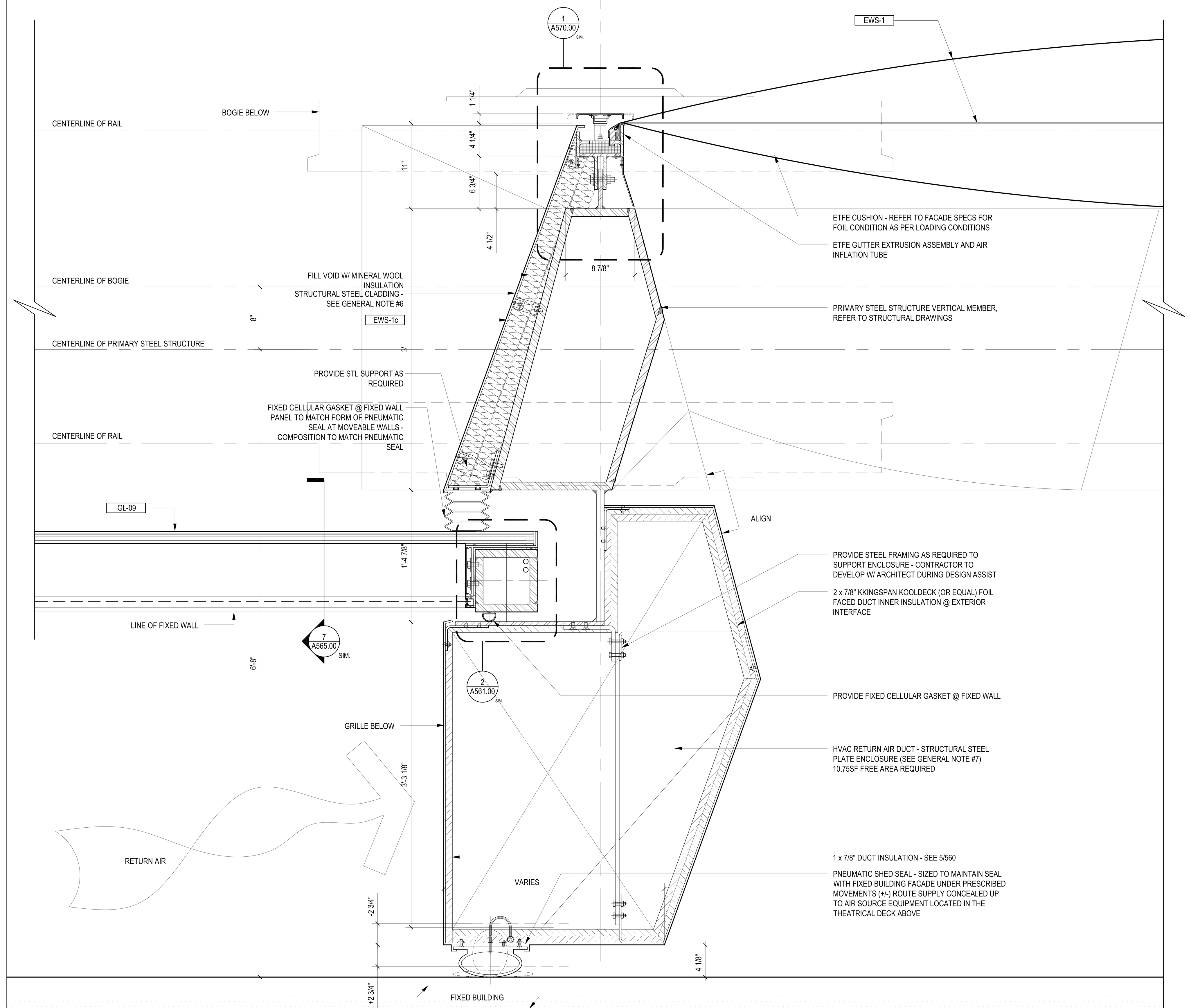


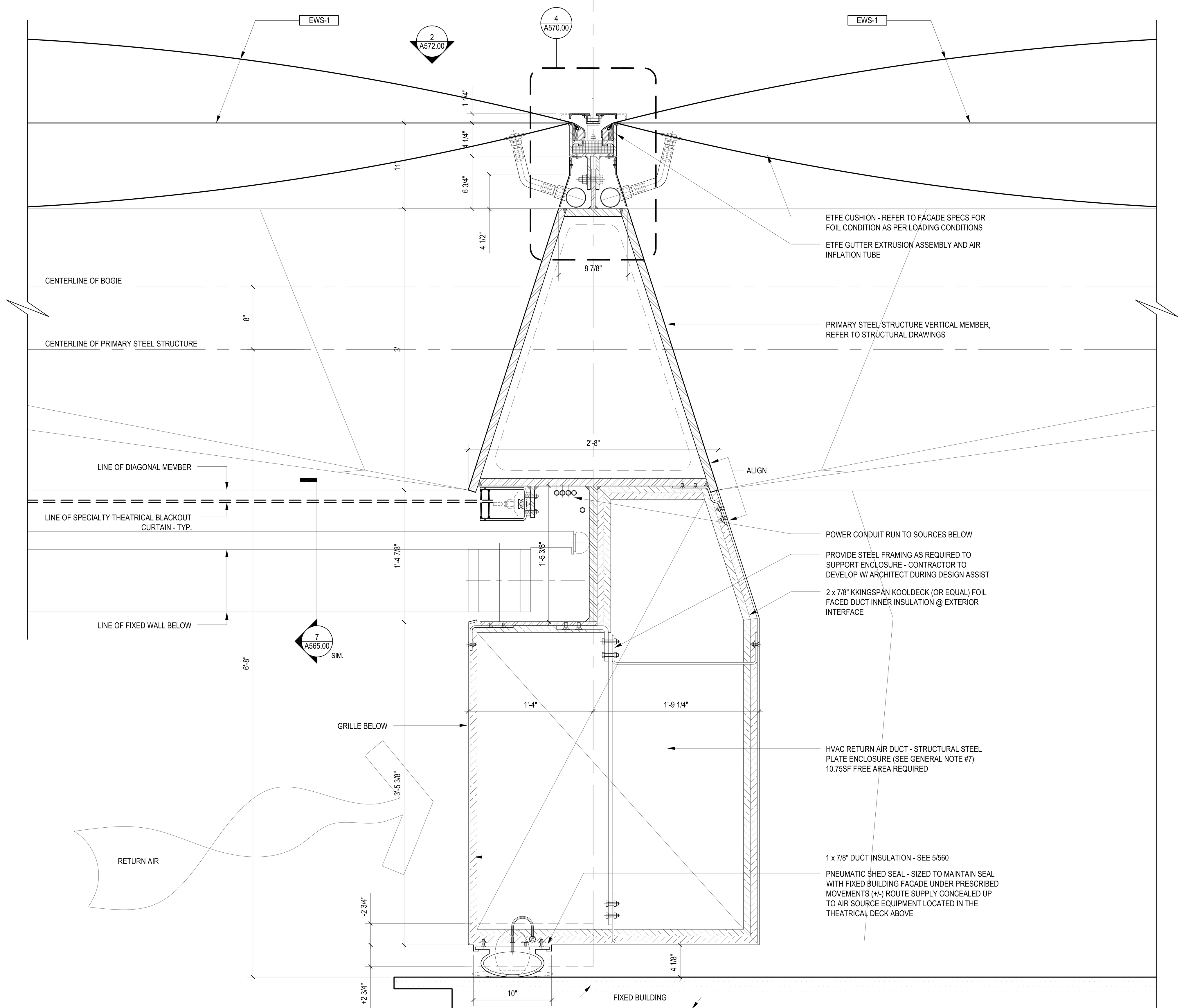
SECTION DETAIL AT DIAGONAL WALL MEMBER AT DOOR
VIEW TAKEN NORMAL TO DIAGONAL CENTERLINE
1
1-1/2" = 1'-0"



PLAN DETAIL AT VERTICAL
VIEW TAKEN AT MOVABLE WALL (0' - 30' A.F.F.) BETWEEN OPERABLE AND FIXED WALLS
2
1-1/2" = 1'-0"



SECTION DETAIL AT DIAGONAL SHED SEAL / RETURN AIR ENCLOSURE
VIEW TAKEN NORMAL TO DIAGONAL CENTERLINE
3
1-1/2" = 1'-0"



PLAN DETAIL AT VERTICAL SHED SEAL / RETURN AIR ENCLOSURE
VIEW TAKEN ABOVE THE MOVABLE WALL TRAVEL ZONE (30' - 45' A.F.F.)
4
1-1/2" = 1'-0"

LEGEND

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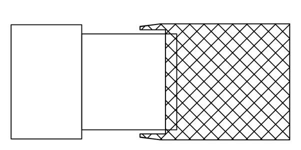

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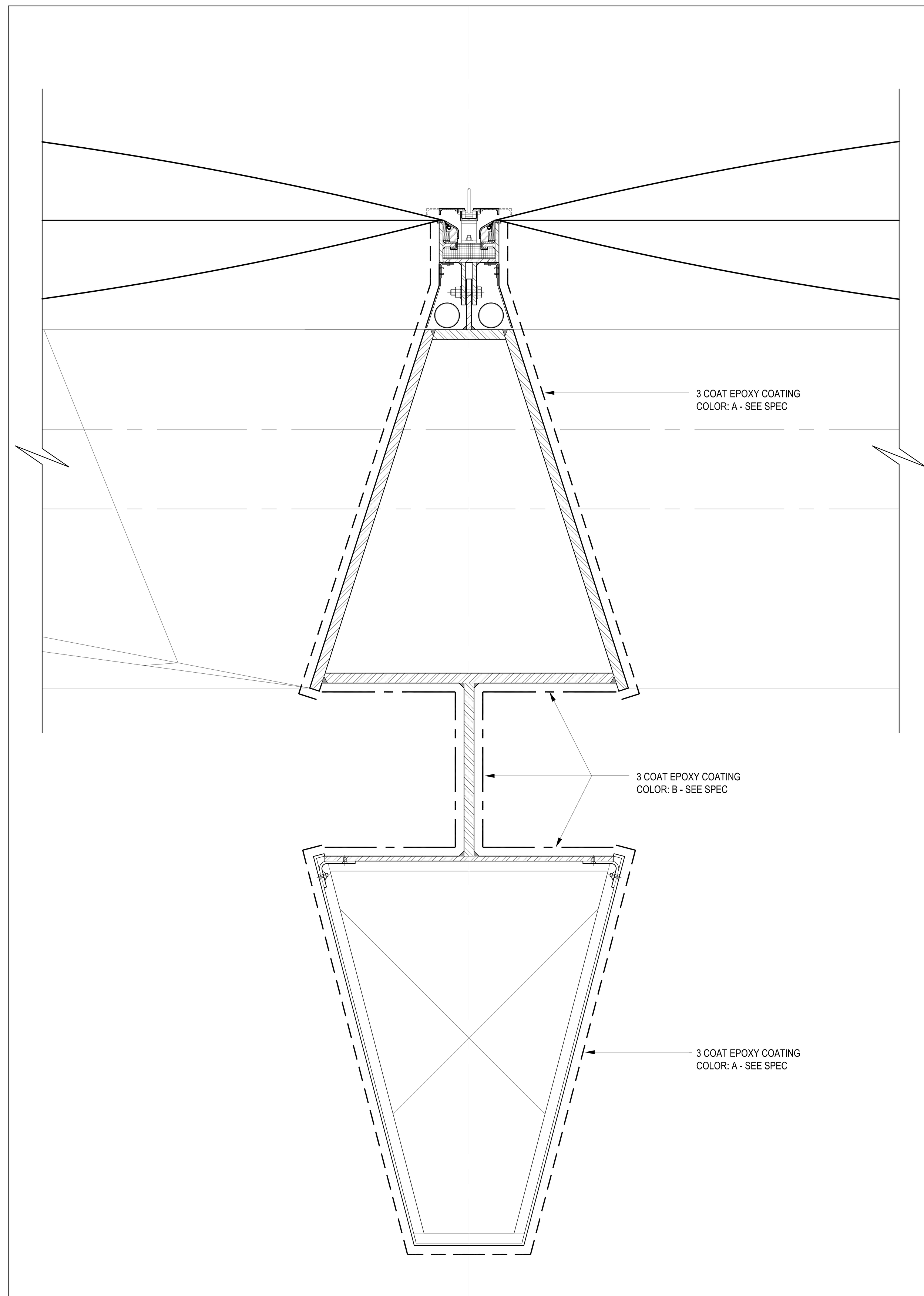
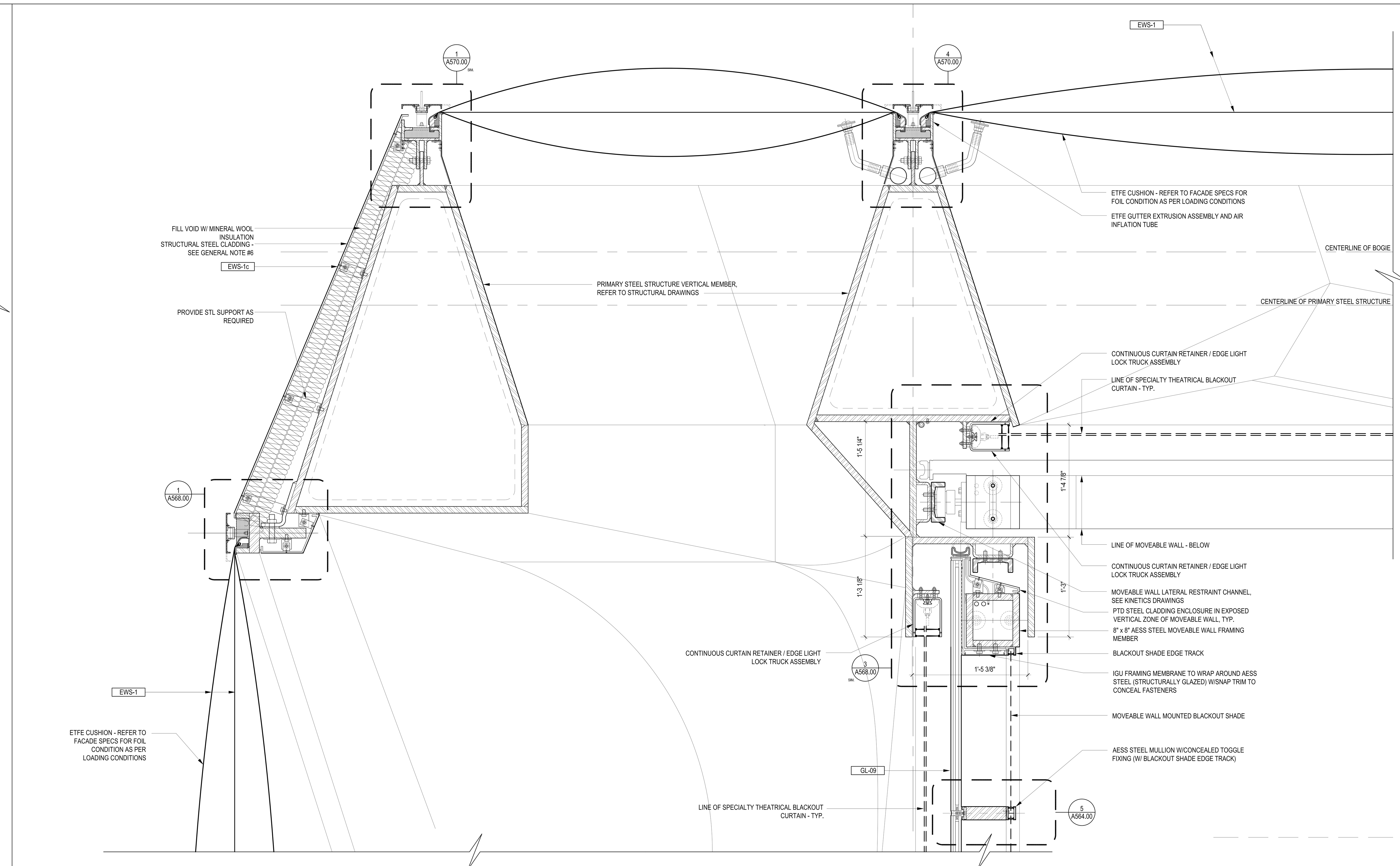
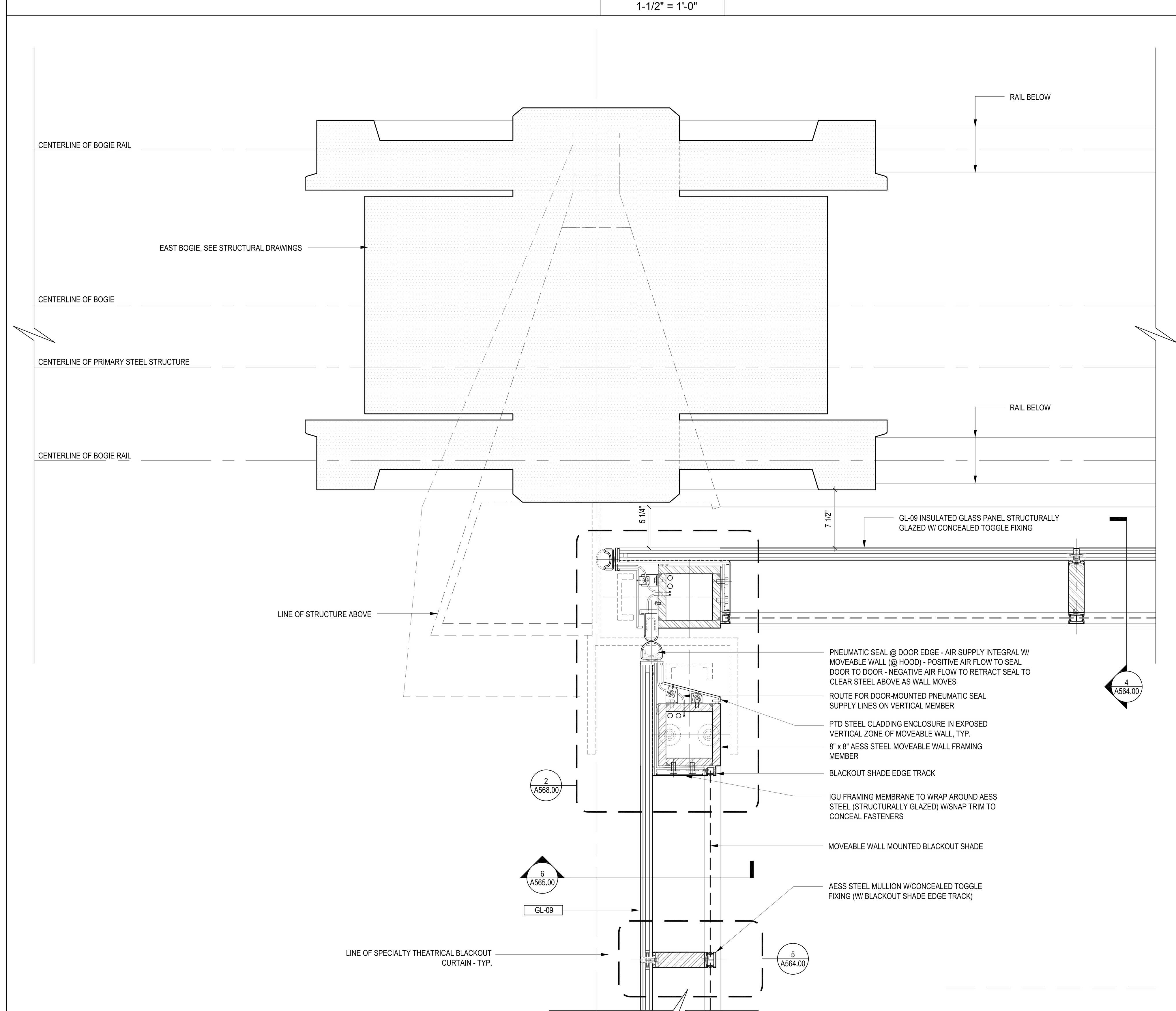


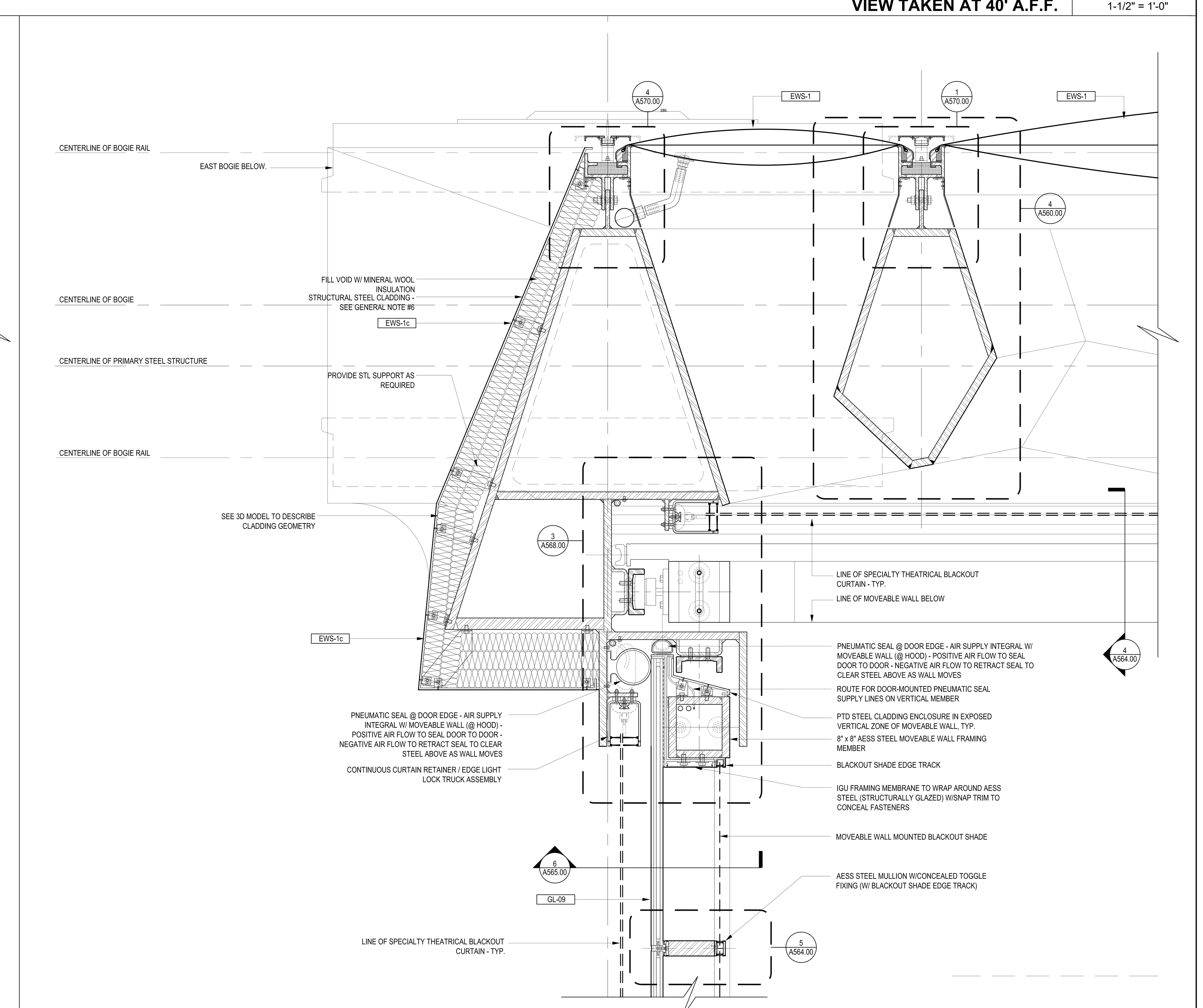
STEEL FINISH COLOR DIAGRAM | 1 | 1-1/2" = 1'-0"



PLAN DETAIL AT NORTHEAST CORNER VIEW TAKEN AT 40' A.F.F. | 2 | 1-1/2" = 1'-0"



PLAN DETAIL AT NORTHEAST CORNER VIEW TAKEN AT 2' A.F.F. | 3 | 1-1/2" = 1'-0"



PLAN DETAIL AT NORTHEAST CORNER VIEW TAKEN AT 15' A.F.F. | 4 | 1-1/2" = 1'-0"

LEGEND

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APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
NYC Development Hub

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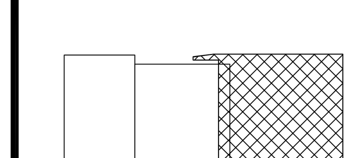
KEY PLAN



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1		ADV. PROCUREMENT BID SET	06.16.2014

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REGISTERED ARCHITECT
RICARDO SCOFIDIO
008800
STATE OF NEW YORK

DRAWN BY Author
CHECKED BY Checker

PROJECT NUMBER
11017

TITLE
TITLEBLOCK
Shed - Typical Framing & Cladding Details
SCALE: 1-1/2" = 1'-0"
0 8 16 24

DRAWING NO.
A-563.00

B-SCAN NO.

A-563.00

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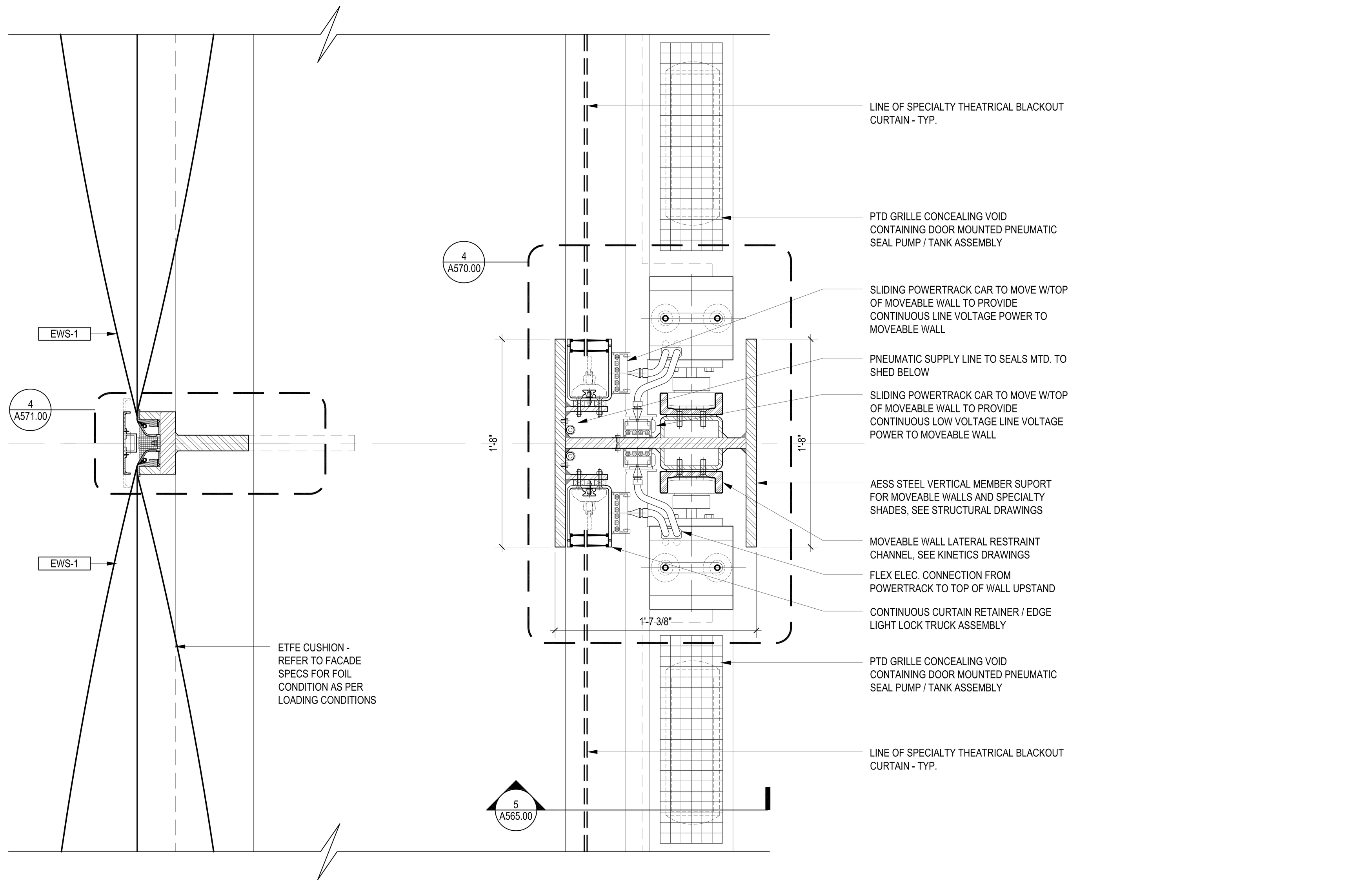
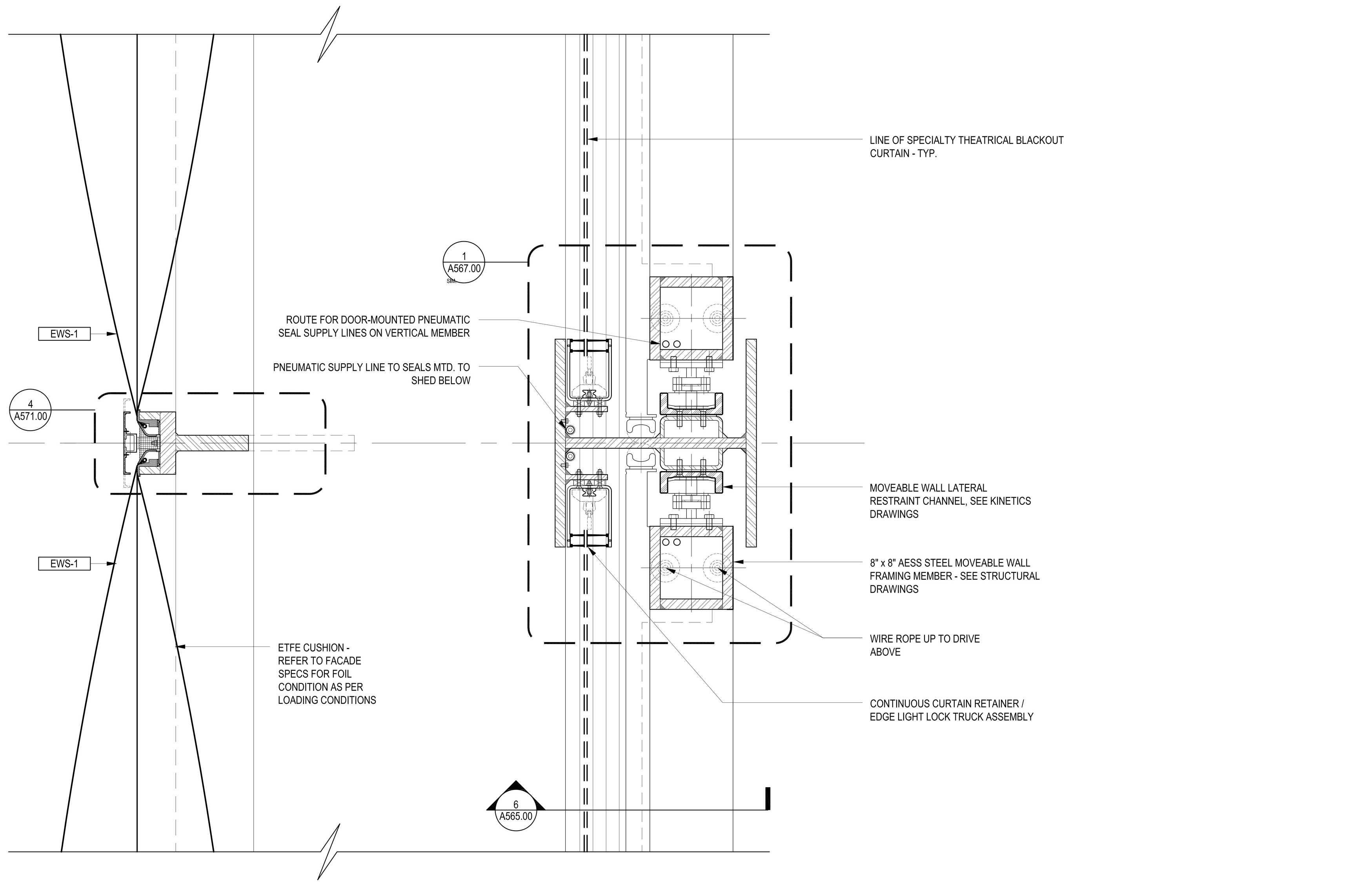
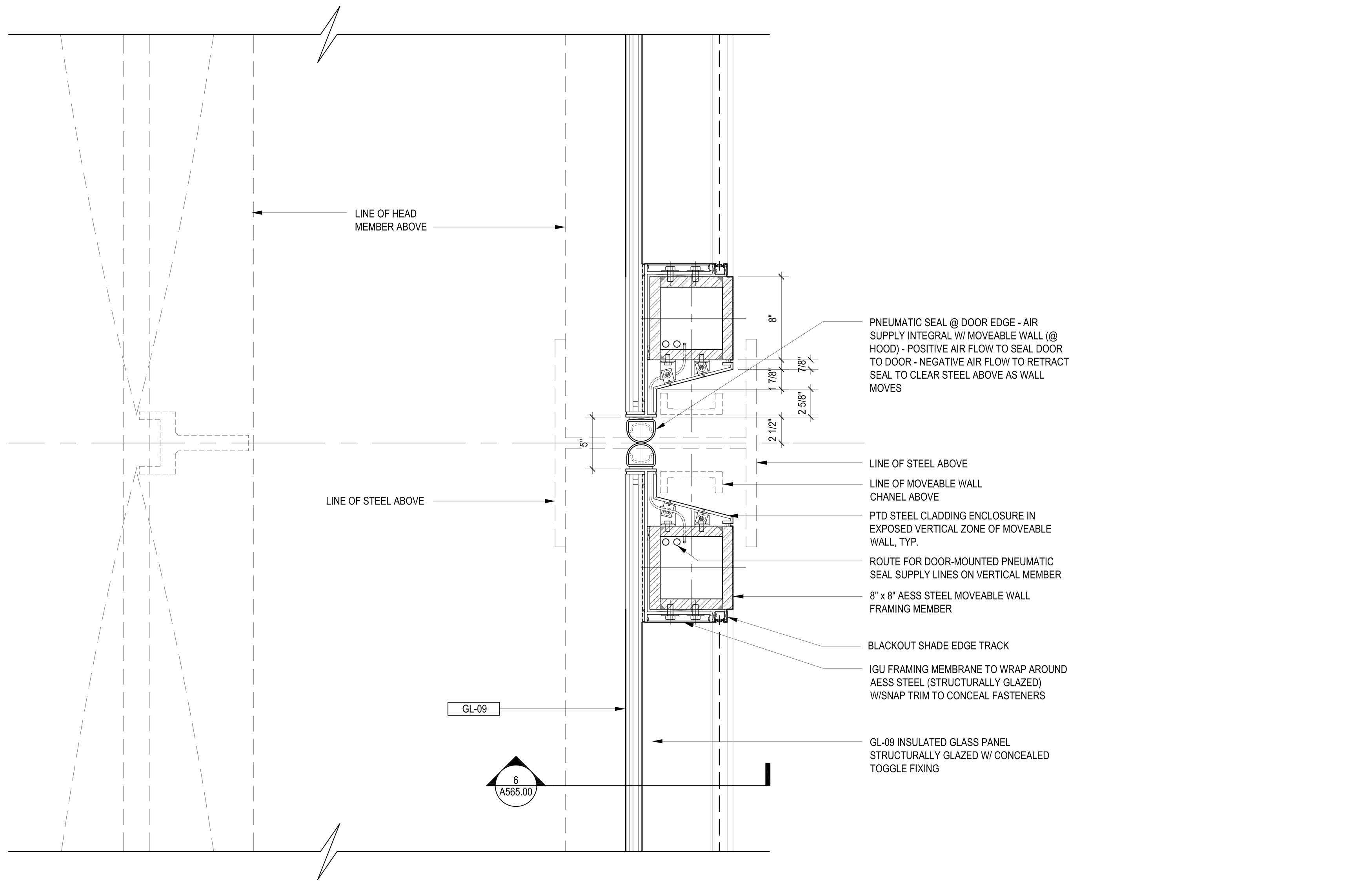


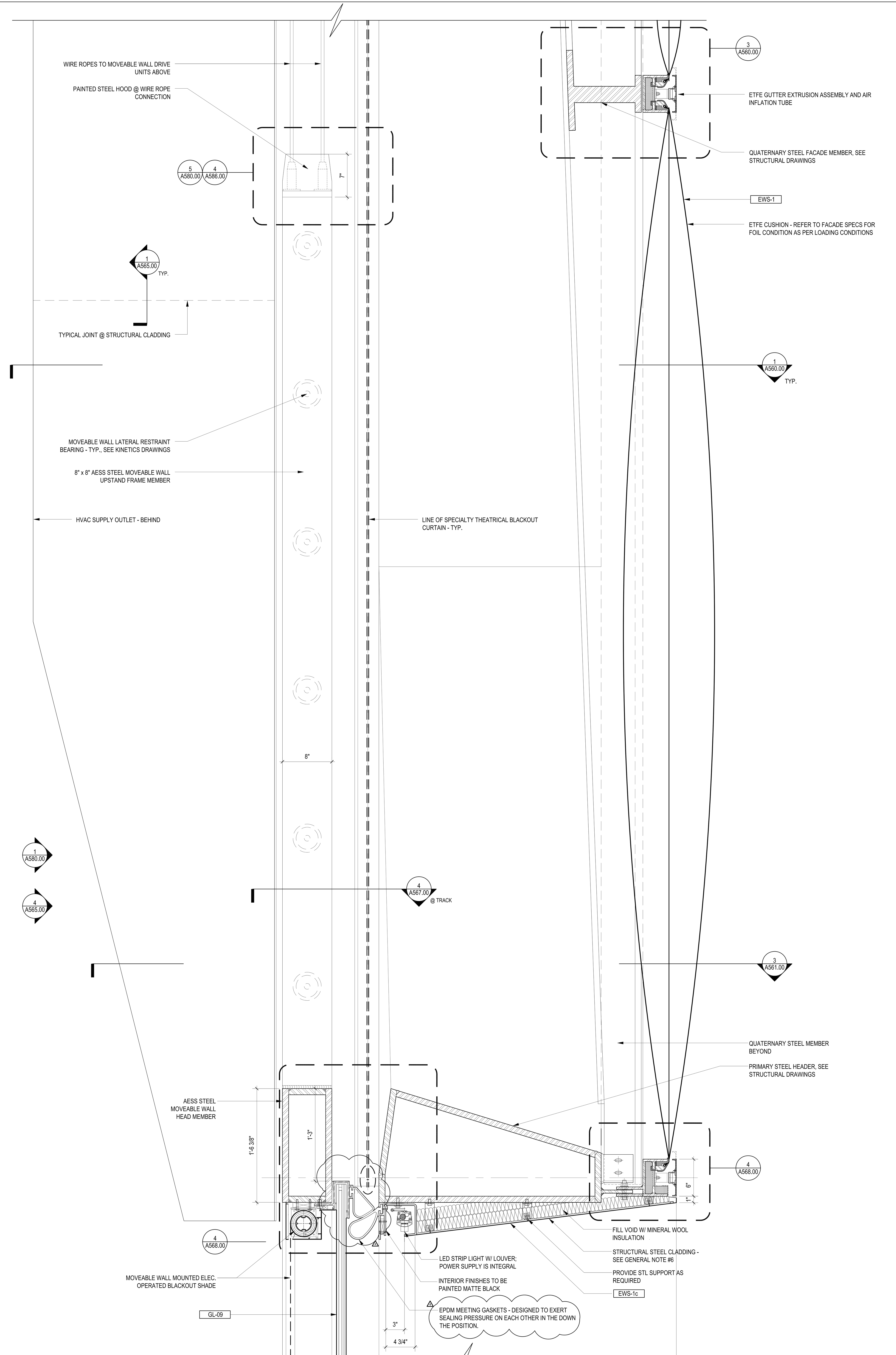
PLAN DETAIL AT EAST FACADE
VIEW TAKEN AT 60' A.F.F. ABOVE DOOR UPSTAND
1
1-1/2" = 1'-0"



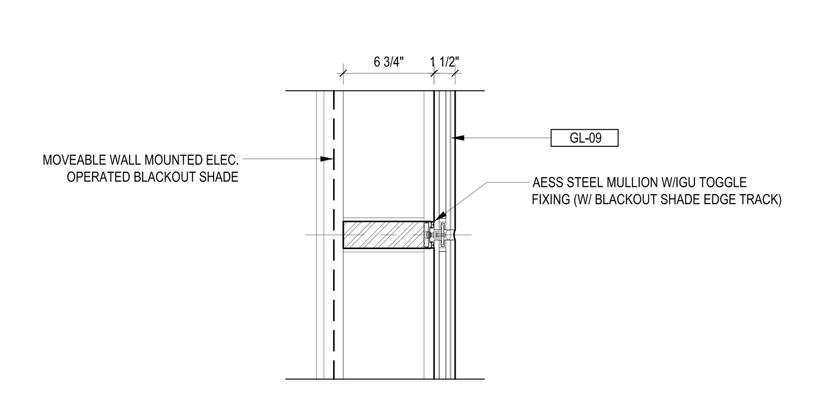
PLAN DETAIL AT EAST FACADE
VIEW TAKEN AT 35' A.F.F. THROUGH DOOR UPSTAND
2
1-1/2" = 1'-0"



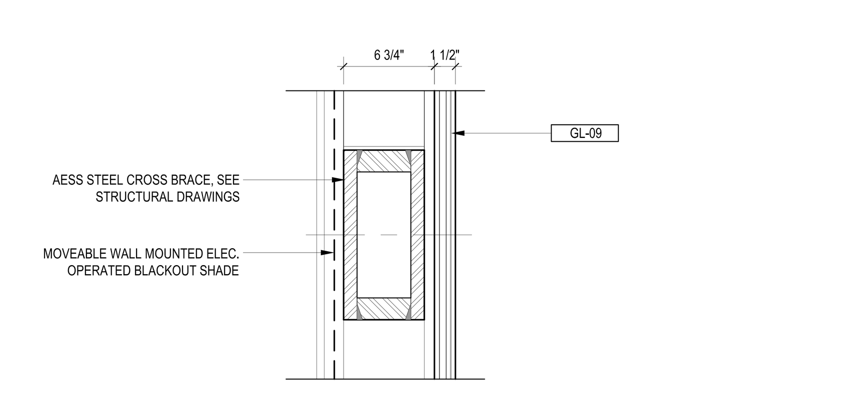
PLAN DETAIL AT EAST FACADE
VIEW TAKEN AT 5' A.F.F.
3
1-1/2" = 1'-0"



SECTION AT N/S MOVABLE WALL HEAD DOOR DOWN
4
1-1/2" = 1'-0"



SECTION AT N/S MOVABLE WALL TRANSOM
5
1-1/2" = 1'-0"



SECTION AT N/S MOVABLE WALL BRACE
6
1-1/2" = 1'-0"

LEGEND

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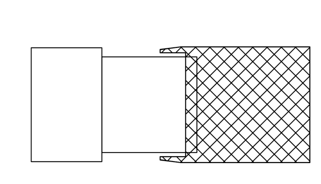

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DRAWN BY Author
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SCALE: 1-1/2" = 1'-0"

0 8 16 24

DRAWING NO.
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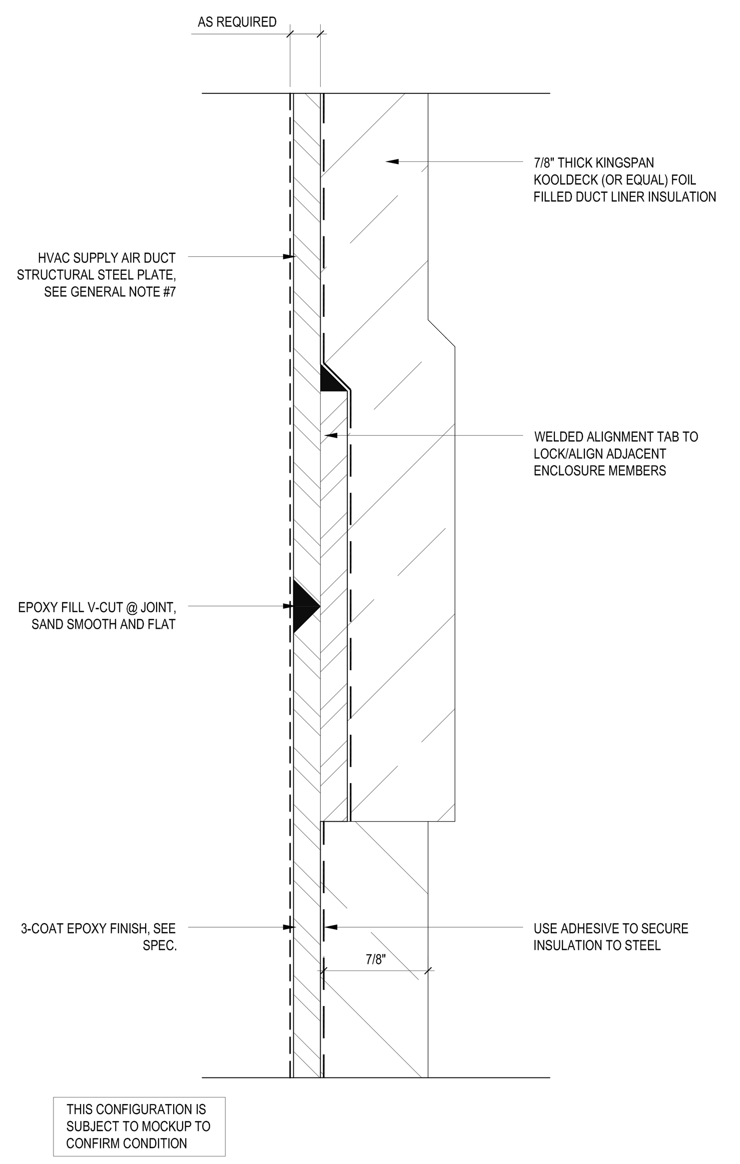
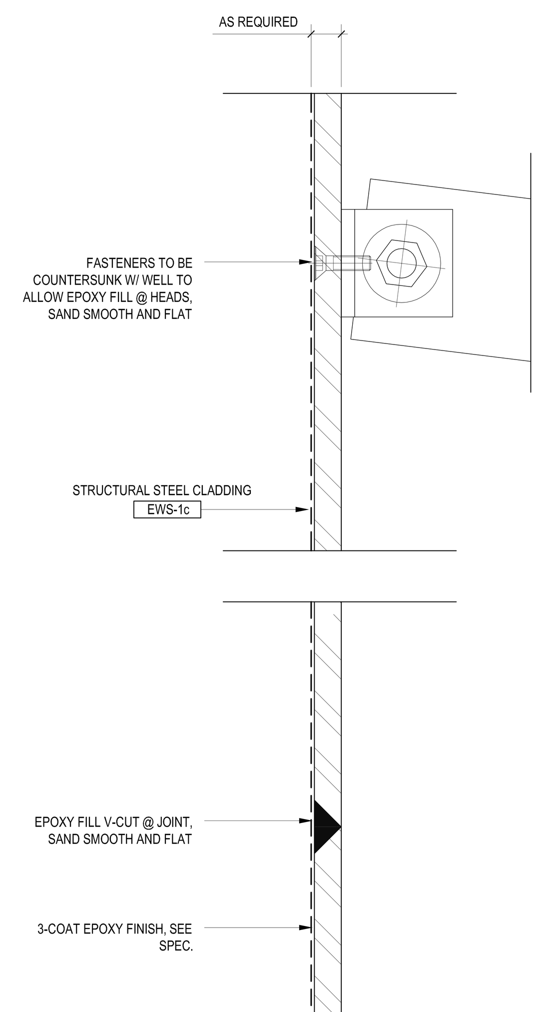
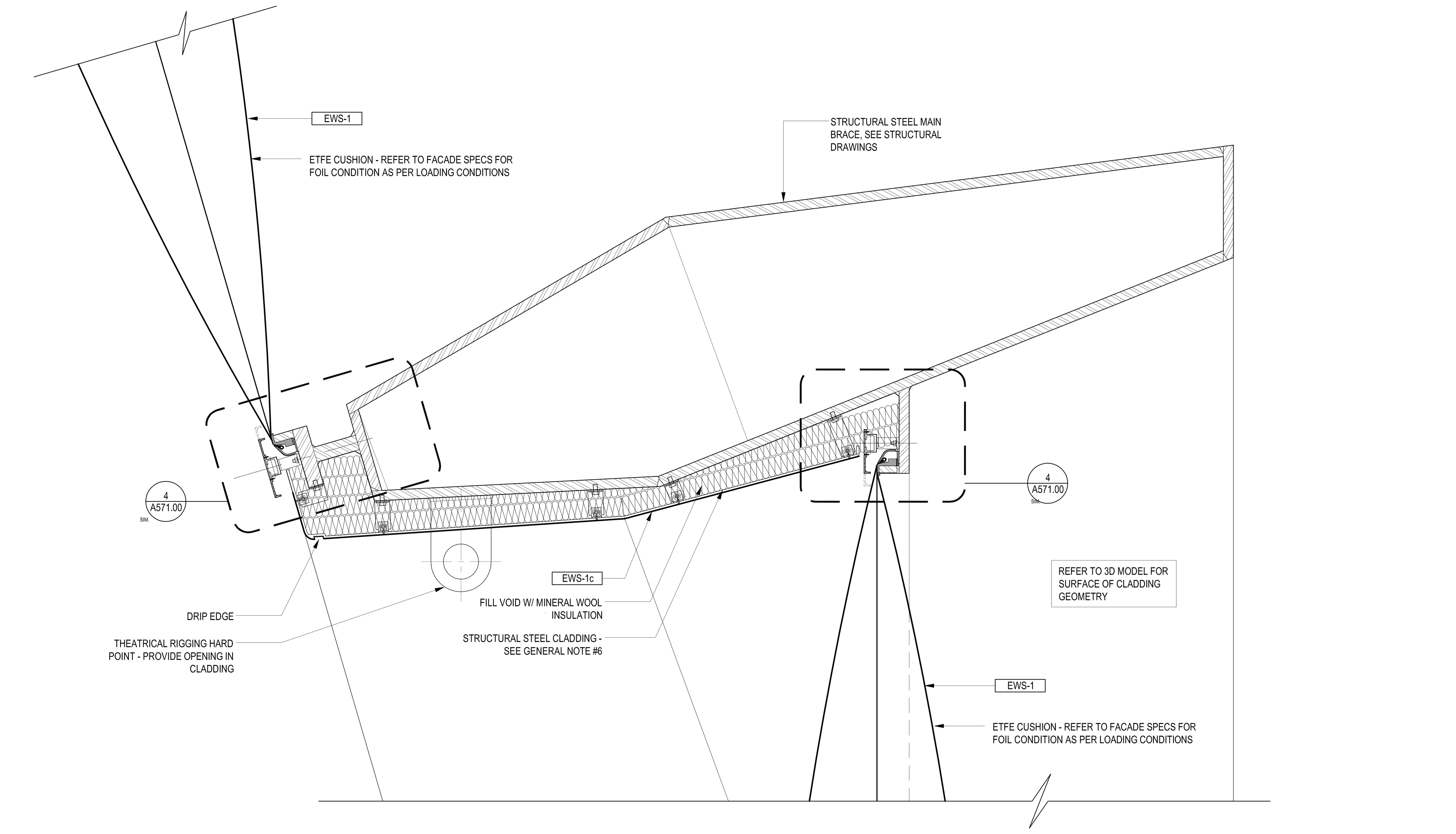


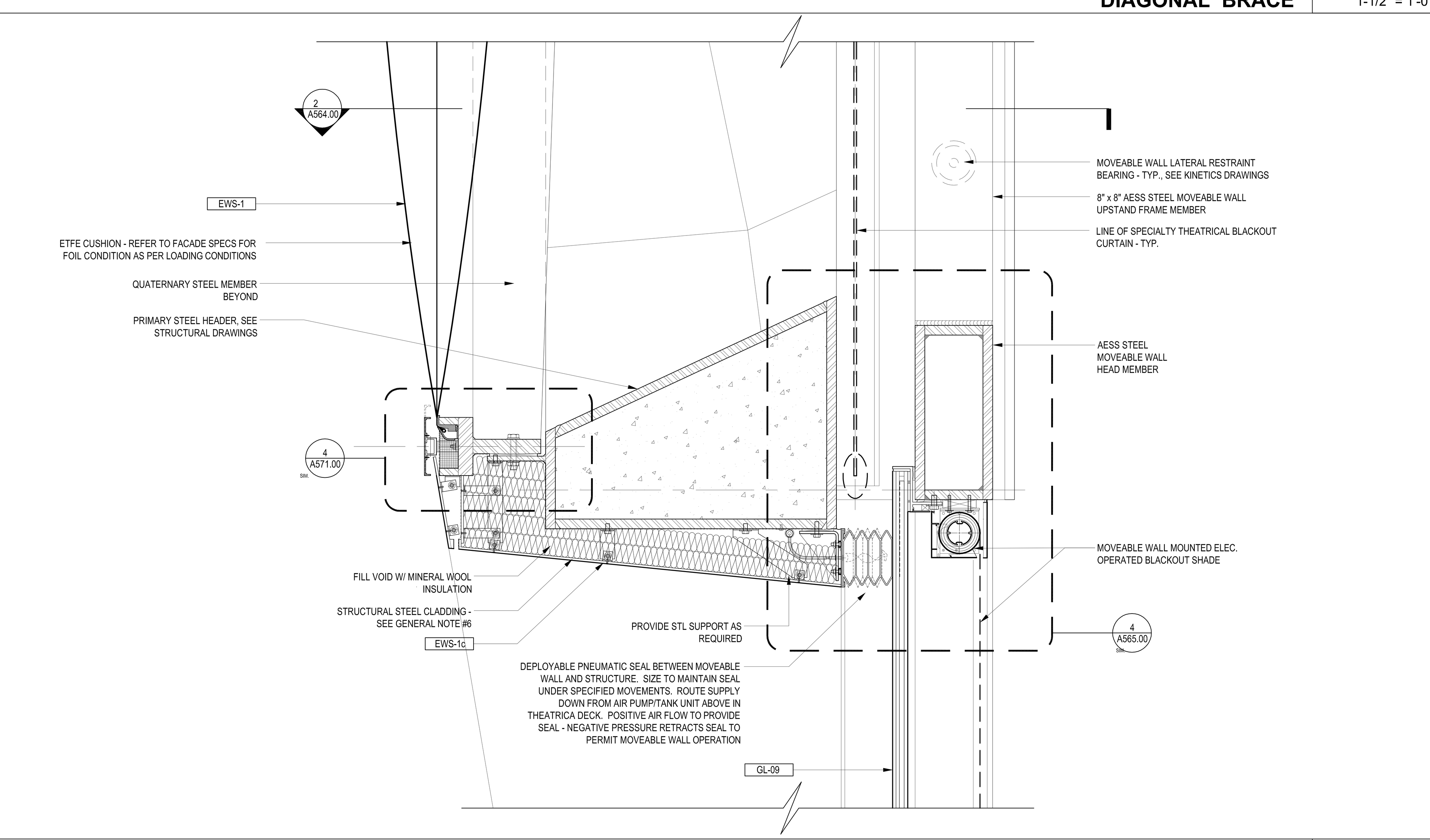
TYP. SECTION DETAIL AT HVAC ENCLOSURE JOINTS — 1 — 12" = 1'-0"



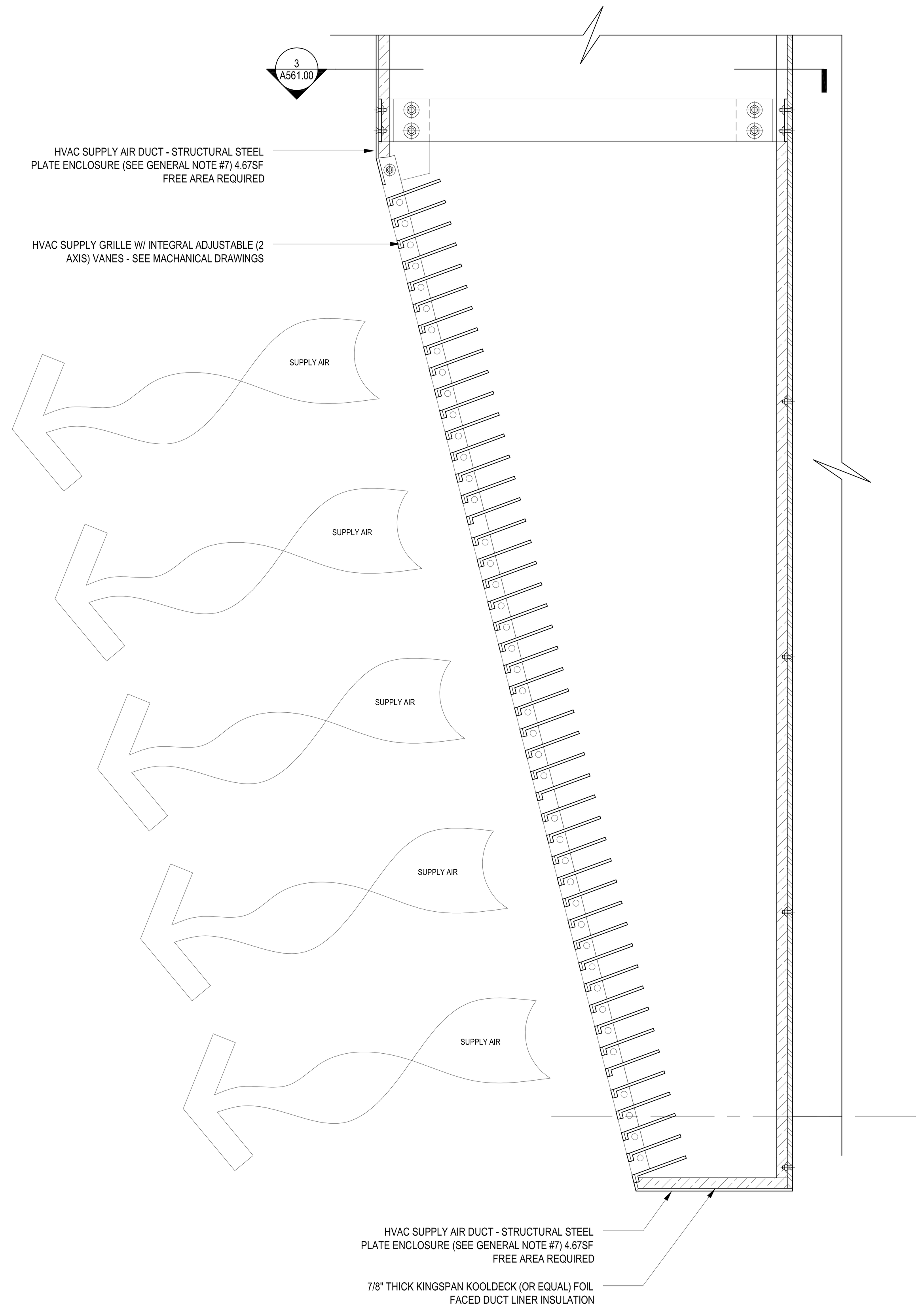
TYP. SECTION DETAIL AT STL. OVERCLADDING JOINTS — 2 — 12" = 1'-0"



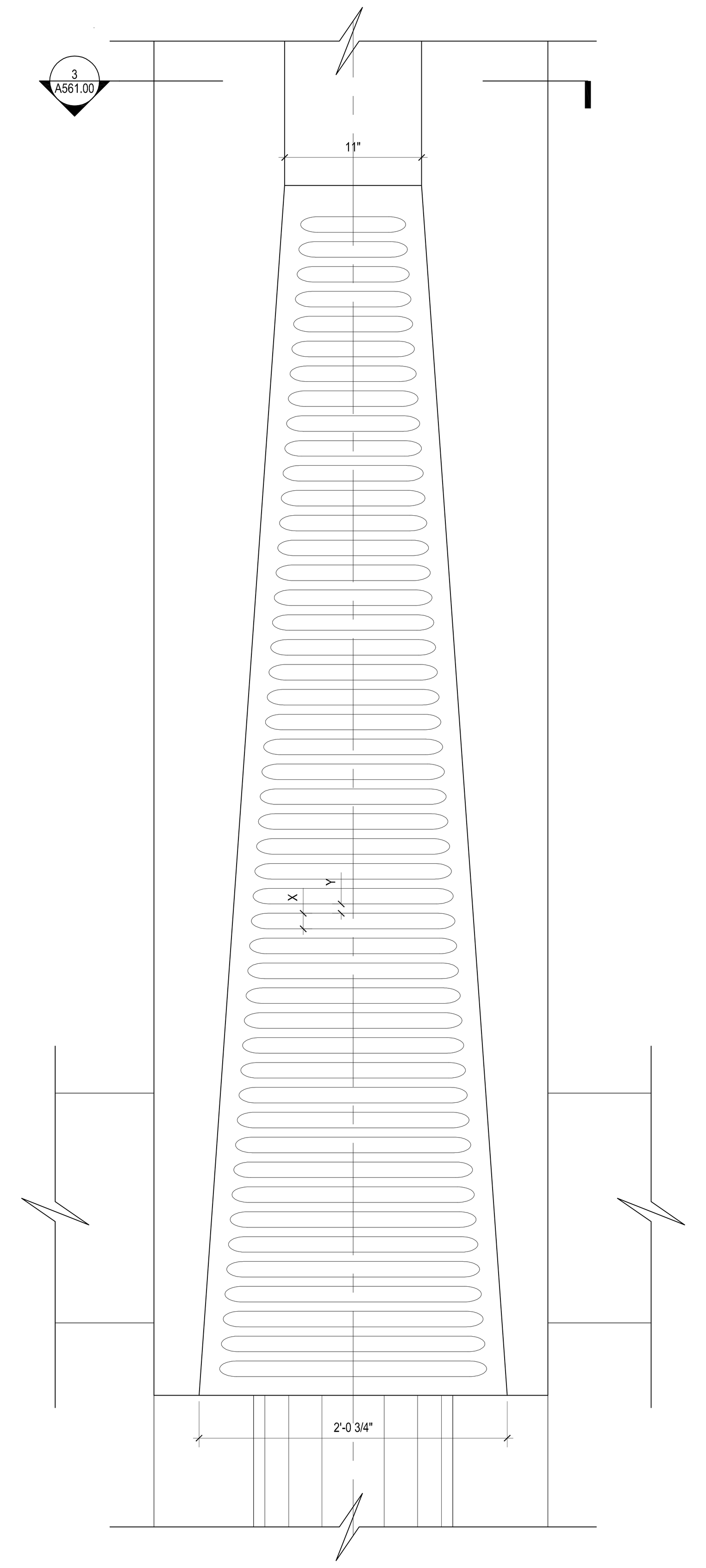
SECTION AT EAST FAACADE DIAGONAL BRACE — 5 — 1-1/2" = 1'-0"



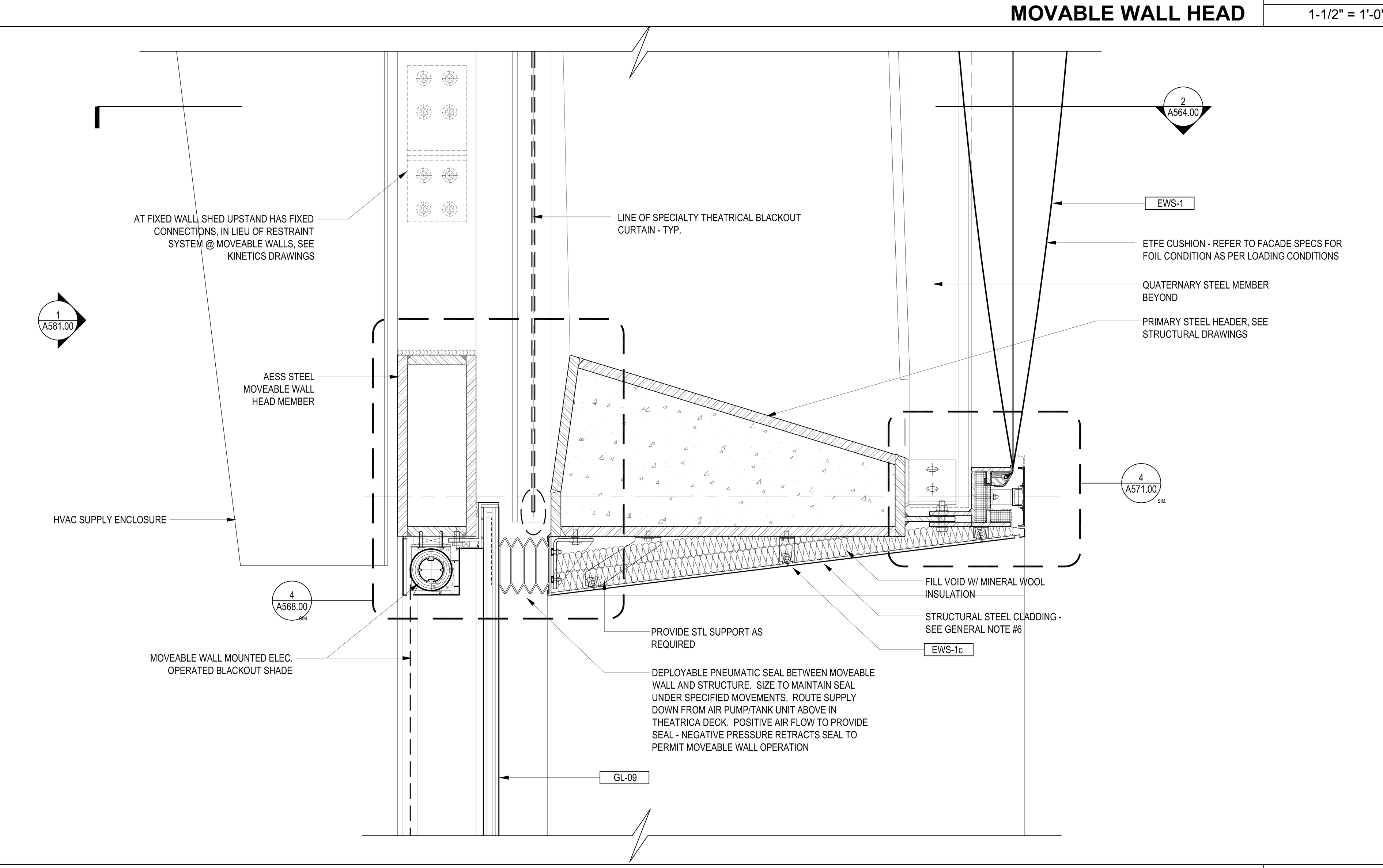
SECTION AT EAST FACADE MOVABLE WALL HEAD — 6 — 1-1/2" = 1'-0"



SECTION AT HVAC OUTLET — 3 — 1-1/2" = 1'-0"



ELEVATION AT HVAC OUTLET — 4 — 1-1/2" = 1'-0"



SECTION AT N/S FACADE HEAD AT FIXED WALL — 7 — 1-1/2" = 1'-0"

LEGEND

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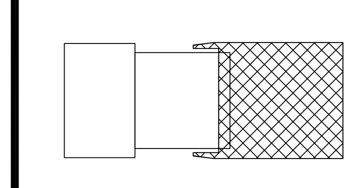

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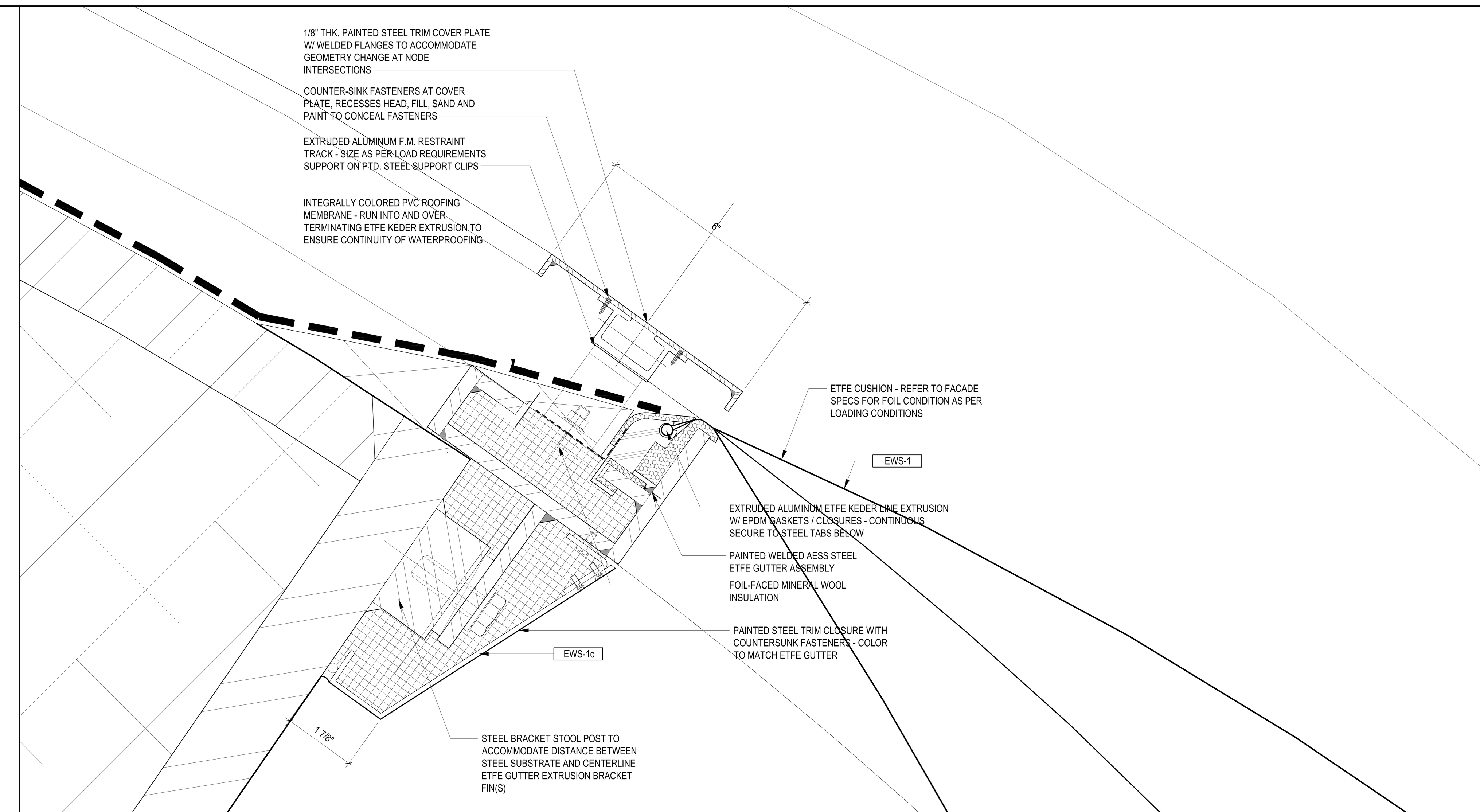
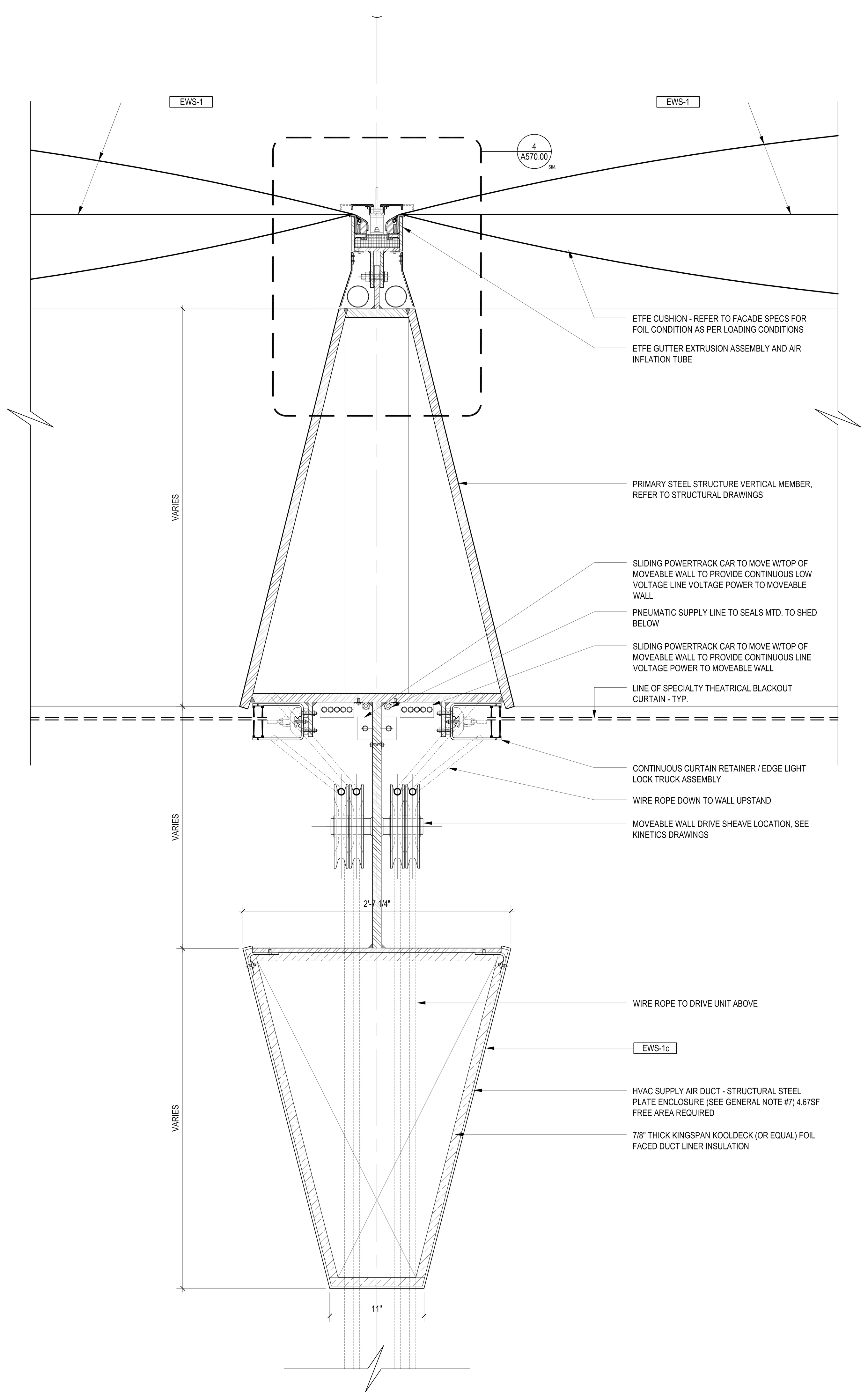
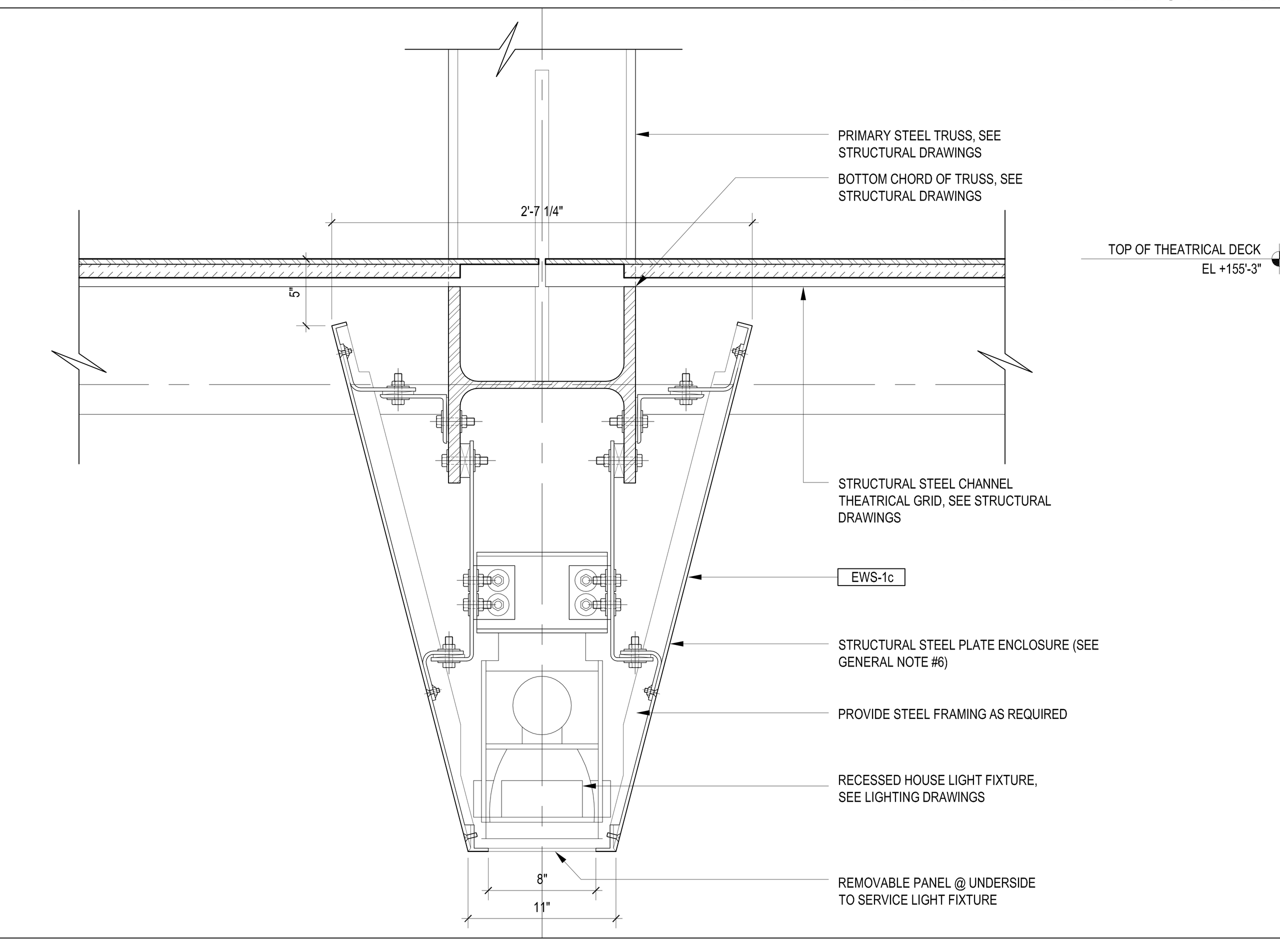


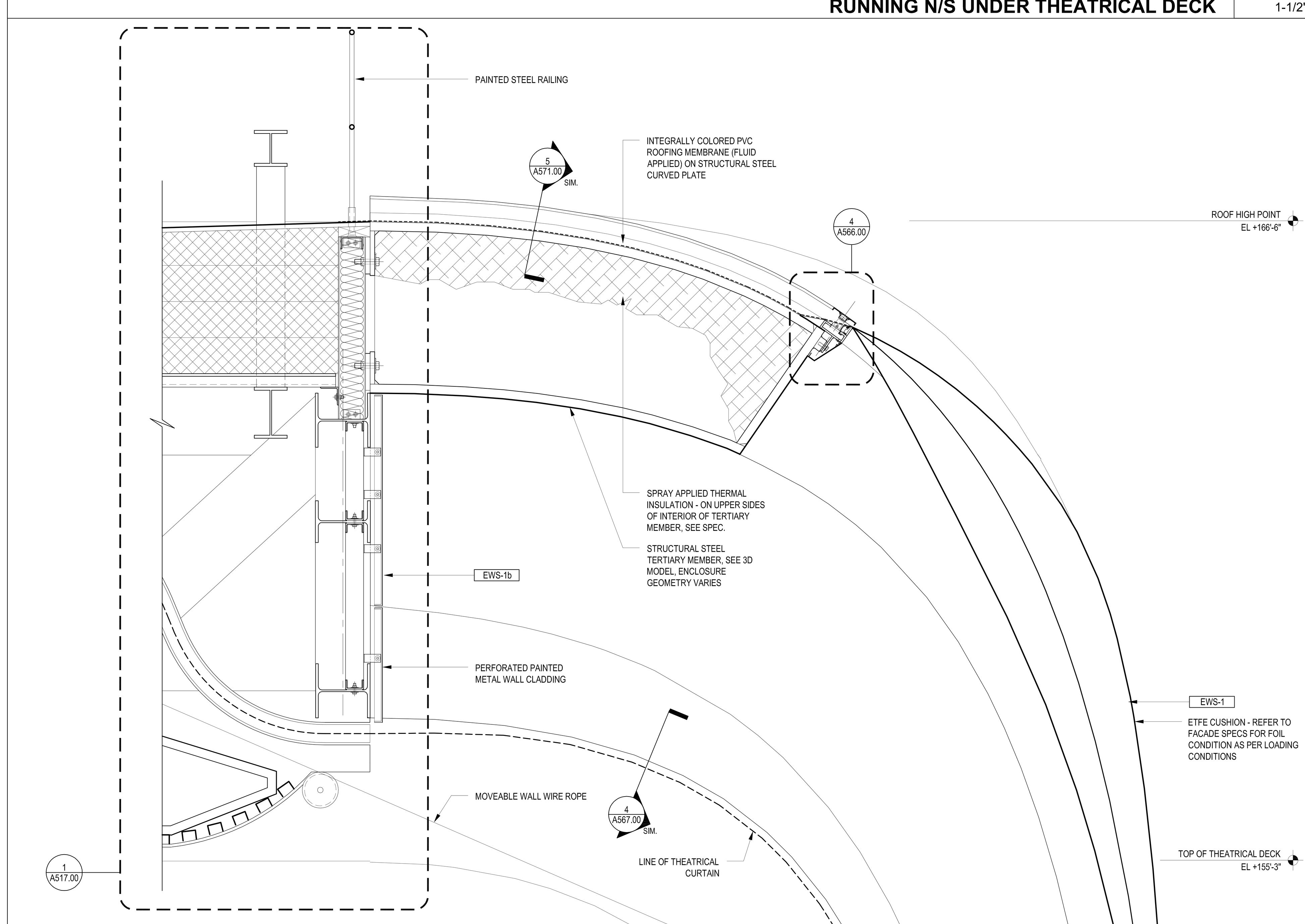
SECTION AT ETFE EDGE AT TERTIARY MEMBER / PARAPET | 4 | 6" = 1'-0"



SECTION AT CURVED FRAMING NEAR PARAPET - N/S FACADES | 1 | 1-1/2" = 1'-0"



SECTION AT DUCT ENCLOSURE RUNNING N/S UNDER THEATRICAL DECK | 2 | 1-1/2" = 1'-0"



SECTION AT CURVED PARAPET AT NORTH / SOUTH WALLS | 3 | 3/4" = 1'-0"

LEGEND

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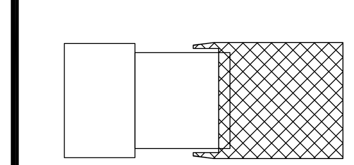

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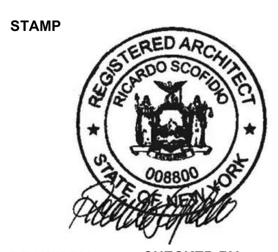

DRAWN BY Author
CHECKED BY Checker

PROJECT NUMBER
11017

TITLE
TITLEBLOCK
Shed - Typical Framing & Cladding Details
SCALE: As indicated

0 8 16 24

DRAWING NO.
A-566.00

B-SCAN NO.

A-566.00

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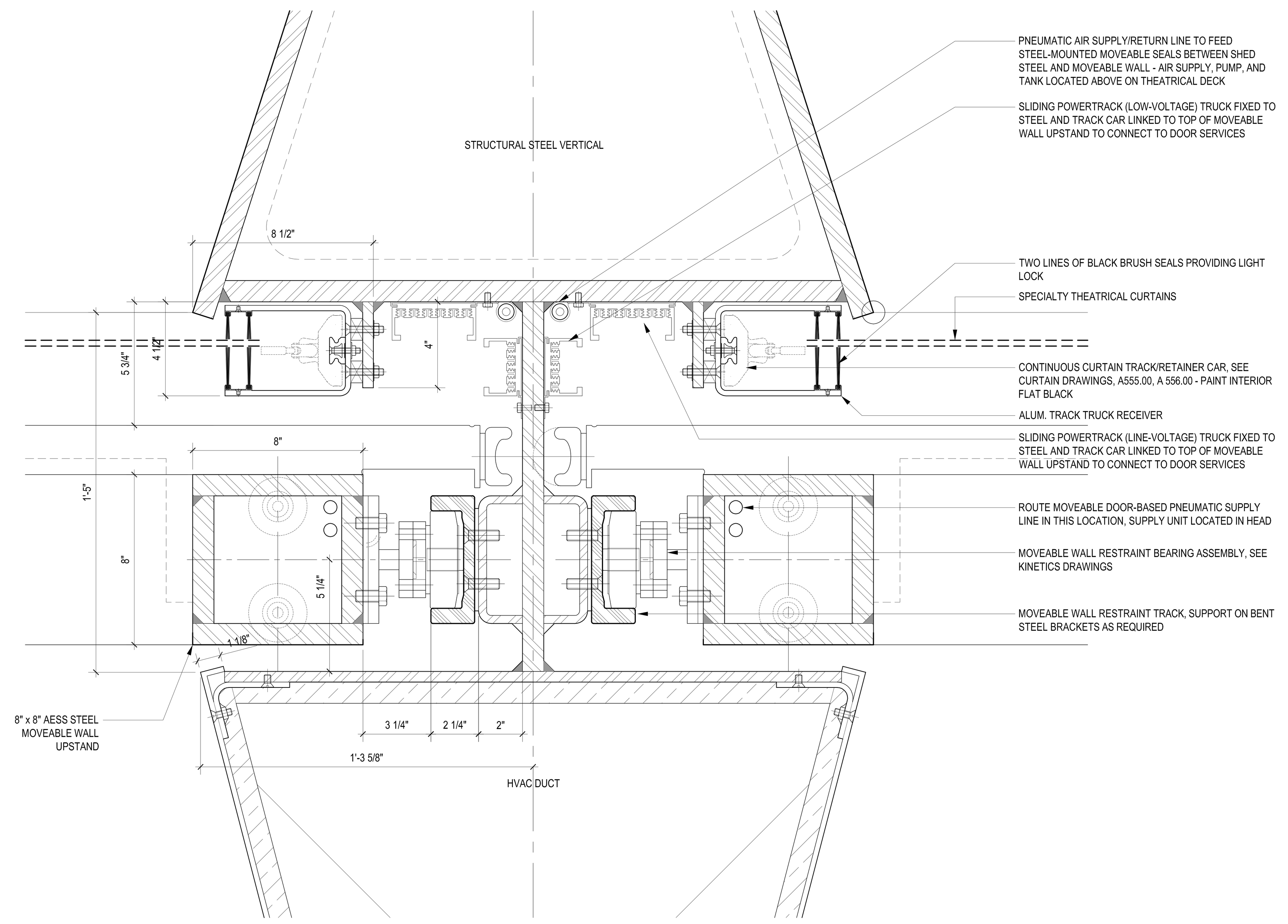
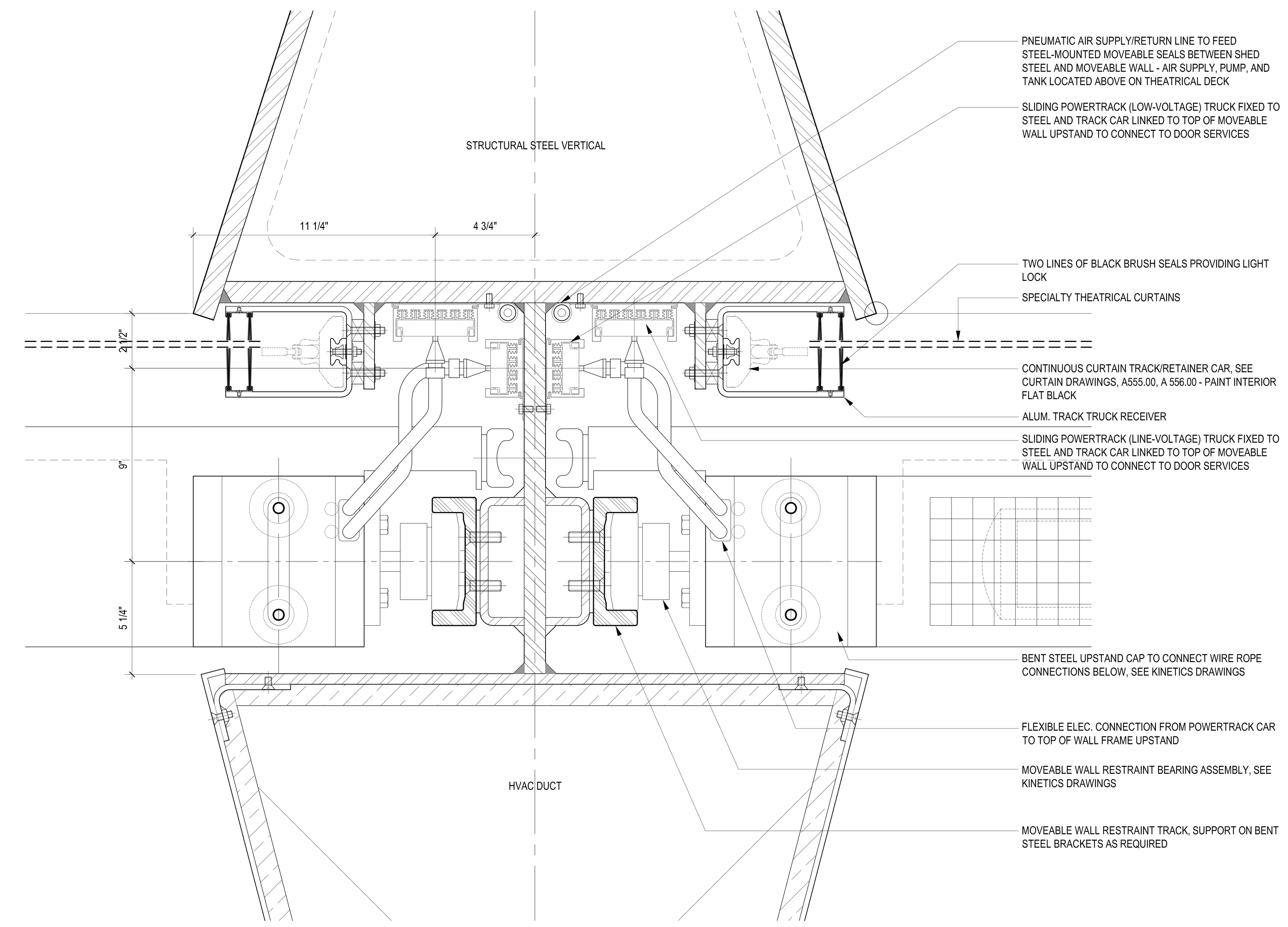
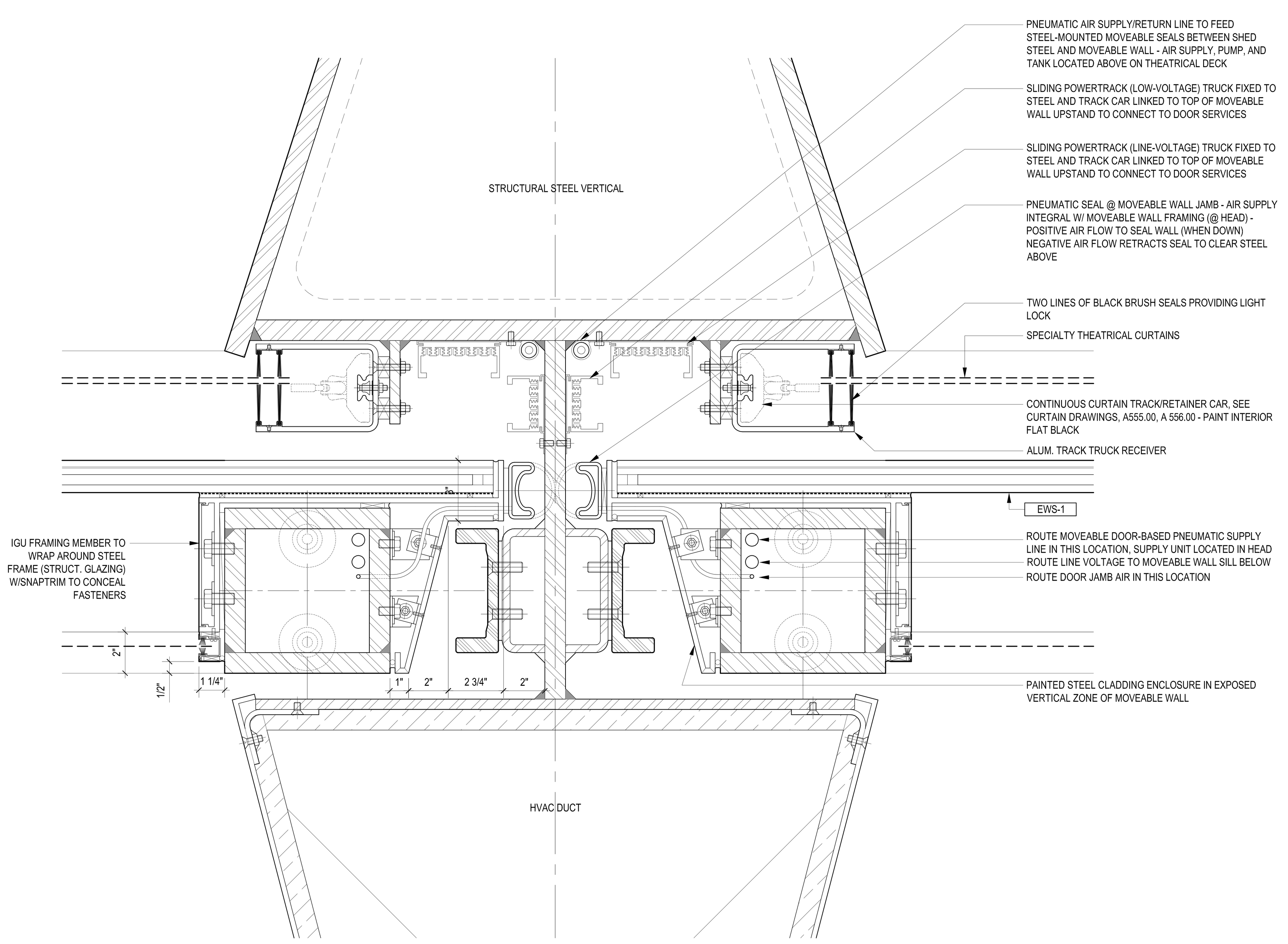
ES904702389 Scan Code



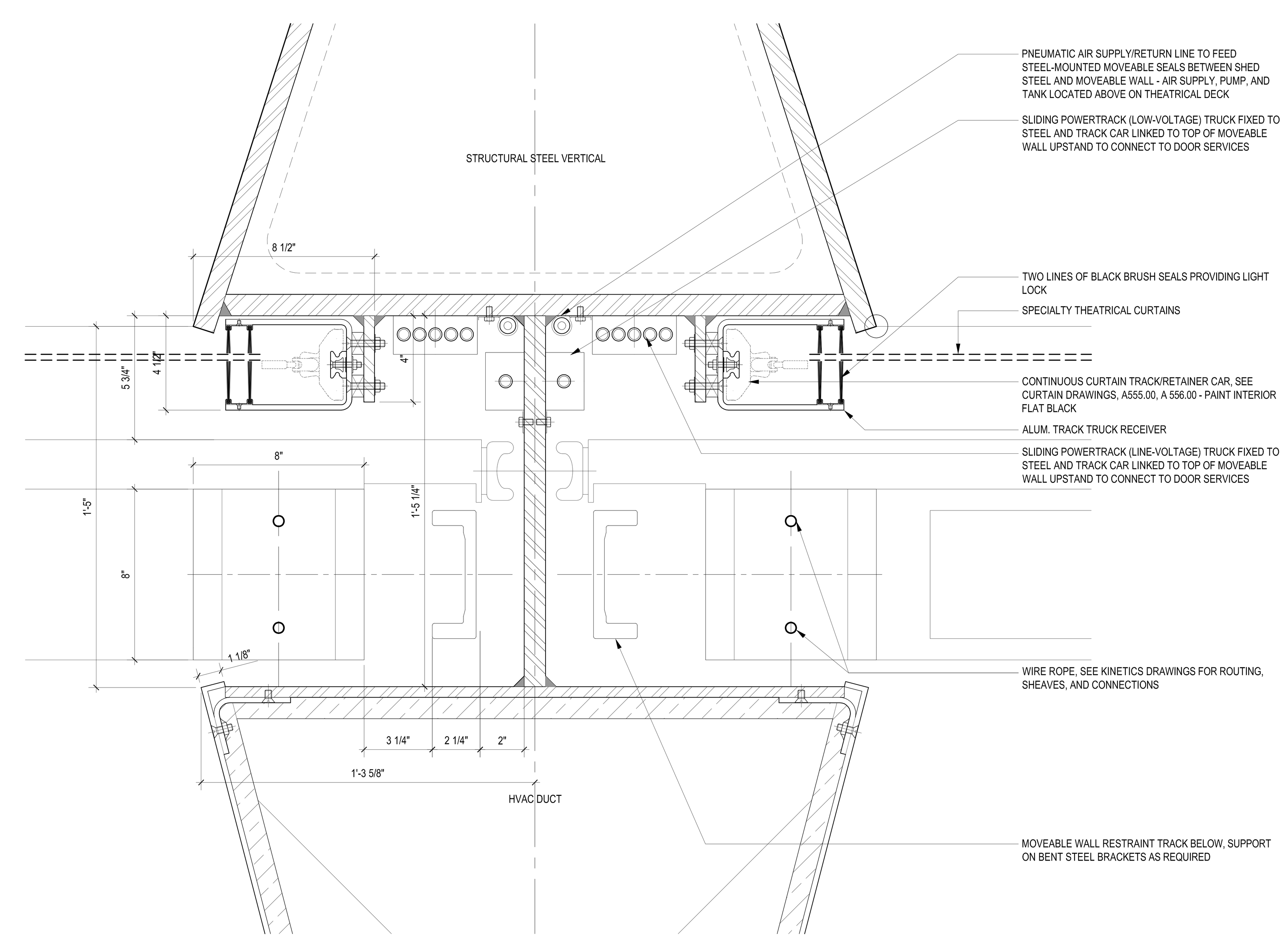
DETAIL AT VERTICAL SHADE / DOOR SLOT
VIEW TAKEN IN THE MOVABLE WALL TRAVEL ZONE (30' - 45' A.F.F.) THROUGH DOOR UPSTAND
1
3" = 1'-0"



DETAIL AT VERTICAL SHADE / DOOR SLOT
VIEW TAKEN IN THE MOVABLE WALL TRAVEL ZONE (30' - 45' A.F.F.) ABOVE DOOR UPSTAND
2
3" = 1'-0"



DETAIL AT VERTICAL SHADE / DOOR SLOT
VIEW TAKEN IN THE MOVABLE WALL TRAVEL ZONE (30' - 45' A.F.F.) WITH WALL UP
4
3" = 1'-0"



DETAIL AT VERTICAL SHADE / DOOR SLOT
VIEW TAKEN ABOVE THE MOVABLE WALL TRAVEL ZONE
4
3" = 1'-0"

LEGEND

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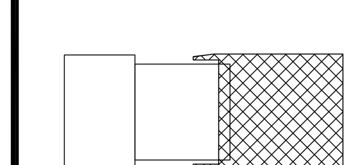

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STAMP

REGISTERED ARCHITECT
RICARDO SCOFIDIO
008800
STATE OF NEW YORK

DRAWN BY
Author

CHECKED BY
Checker

PROJECT NUMBER
11017

TITLE
TITLEBLOCK
Shed - Details at Door / Shade Slot
SCALE: 3" = 1'-0"

0 8 16 24

DRAWING NO.
A-567.00

B-SCAN NO.
A-567.00

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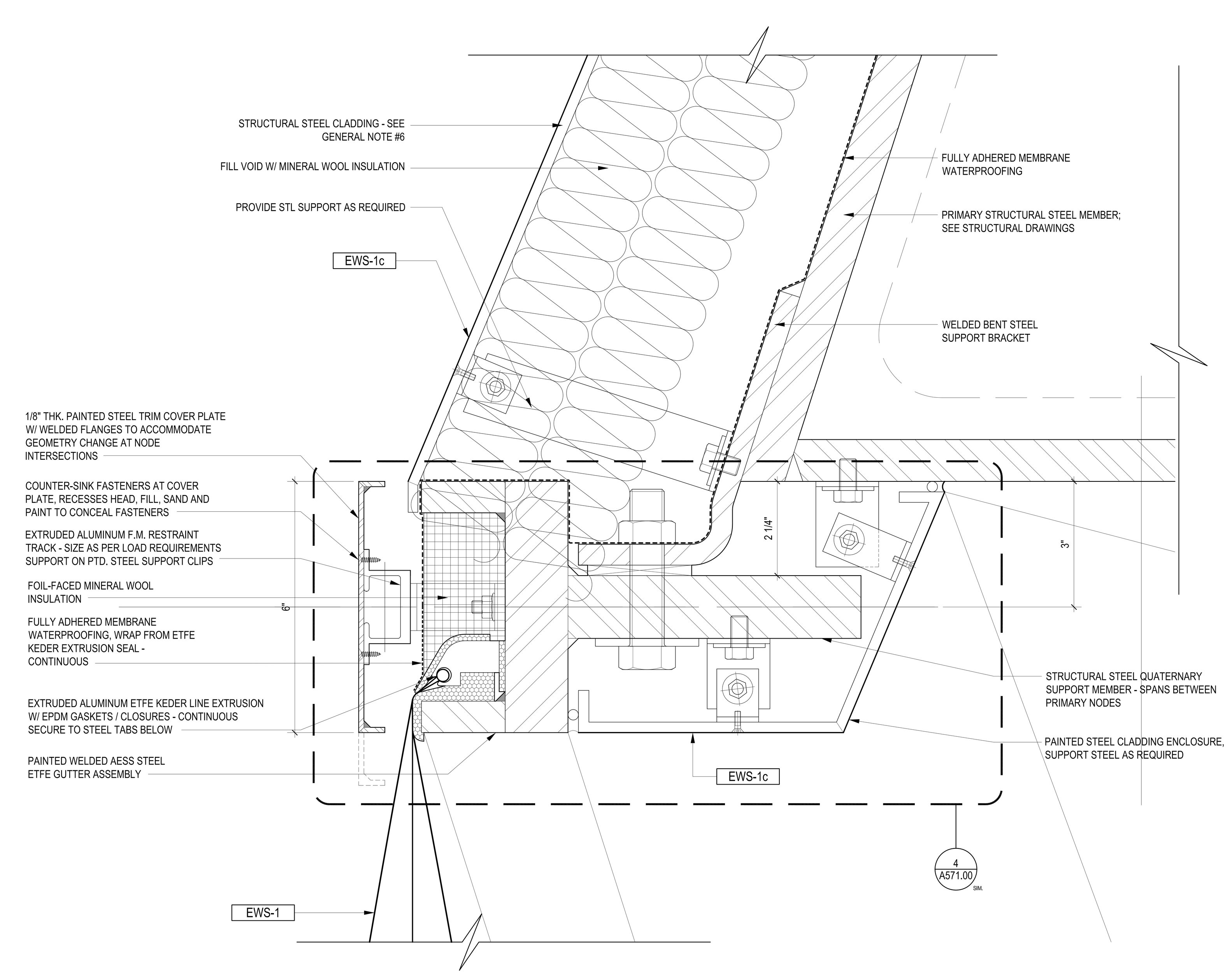
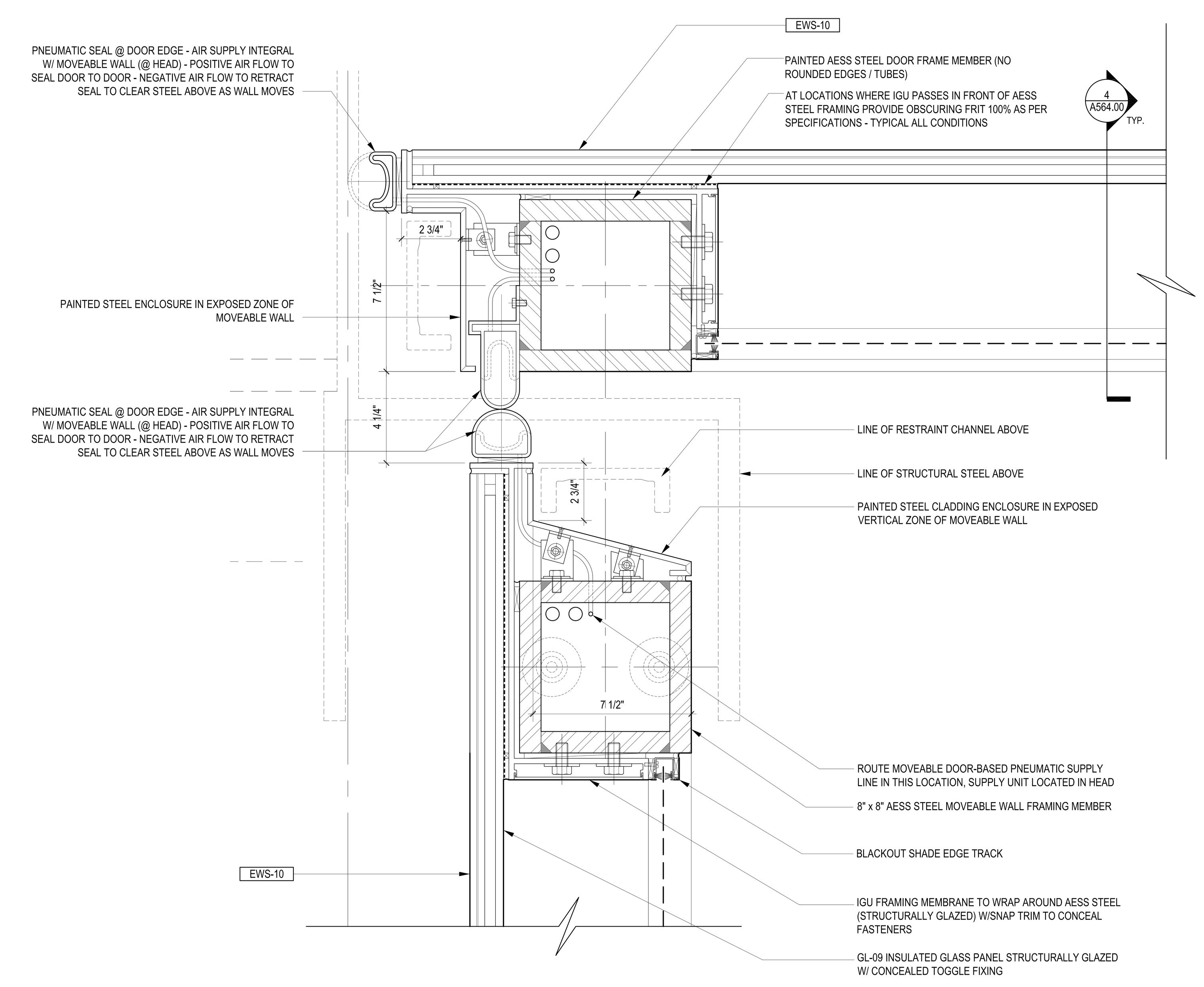
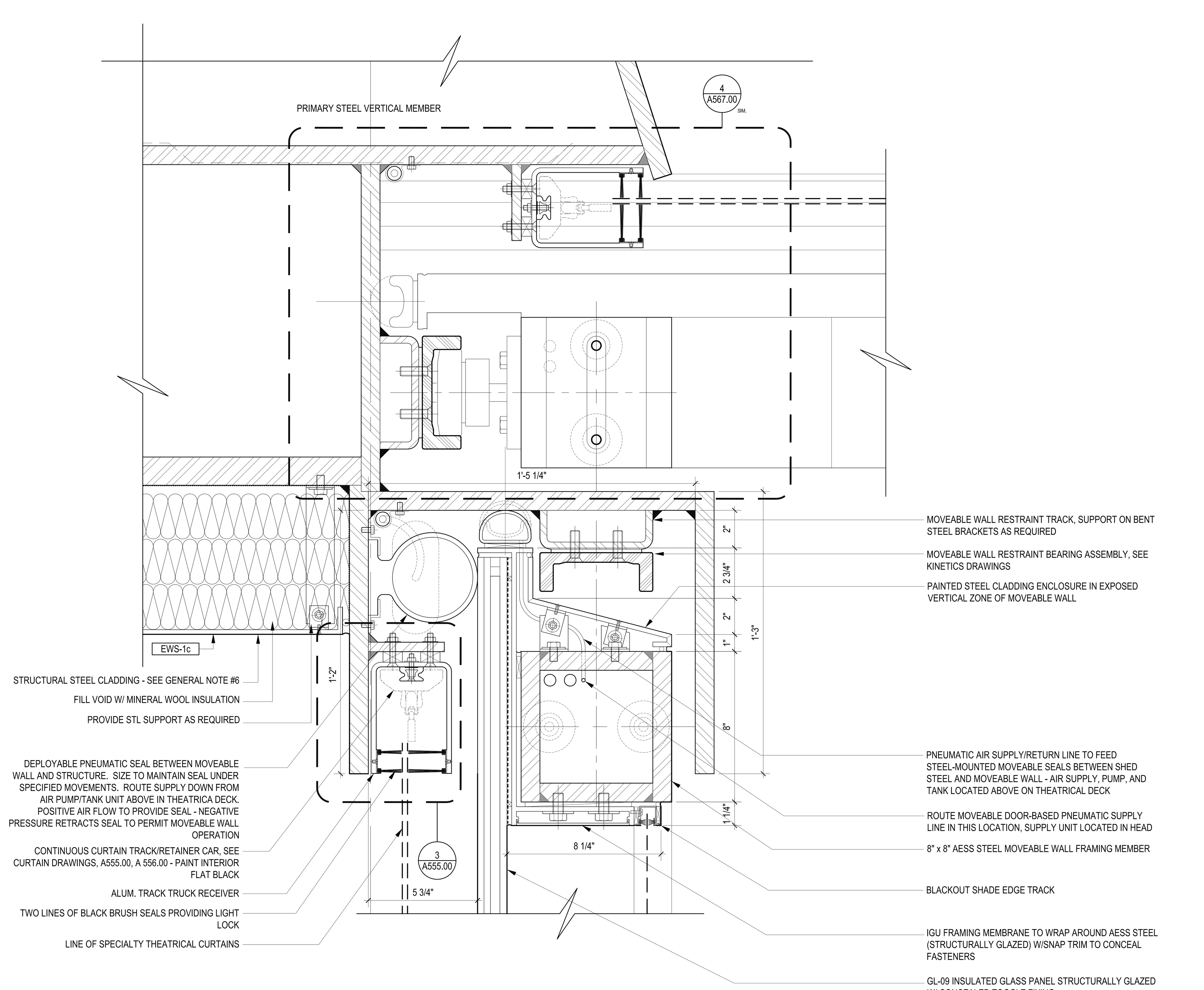
DEPT OF BLDGS 121192397 Job Number   ES943998243 Scan Code



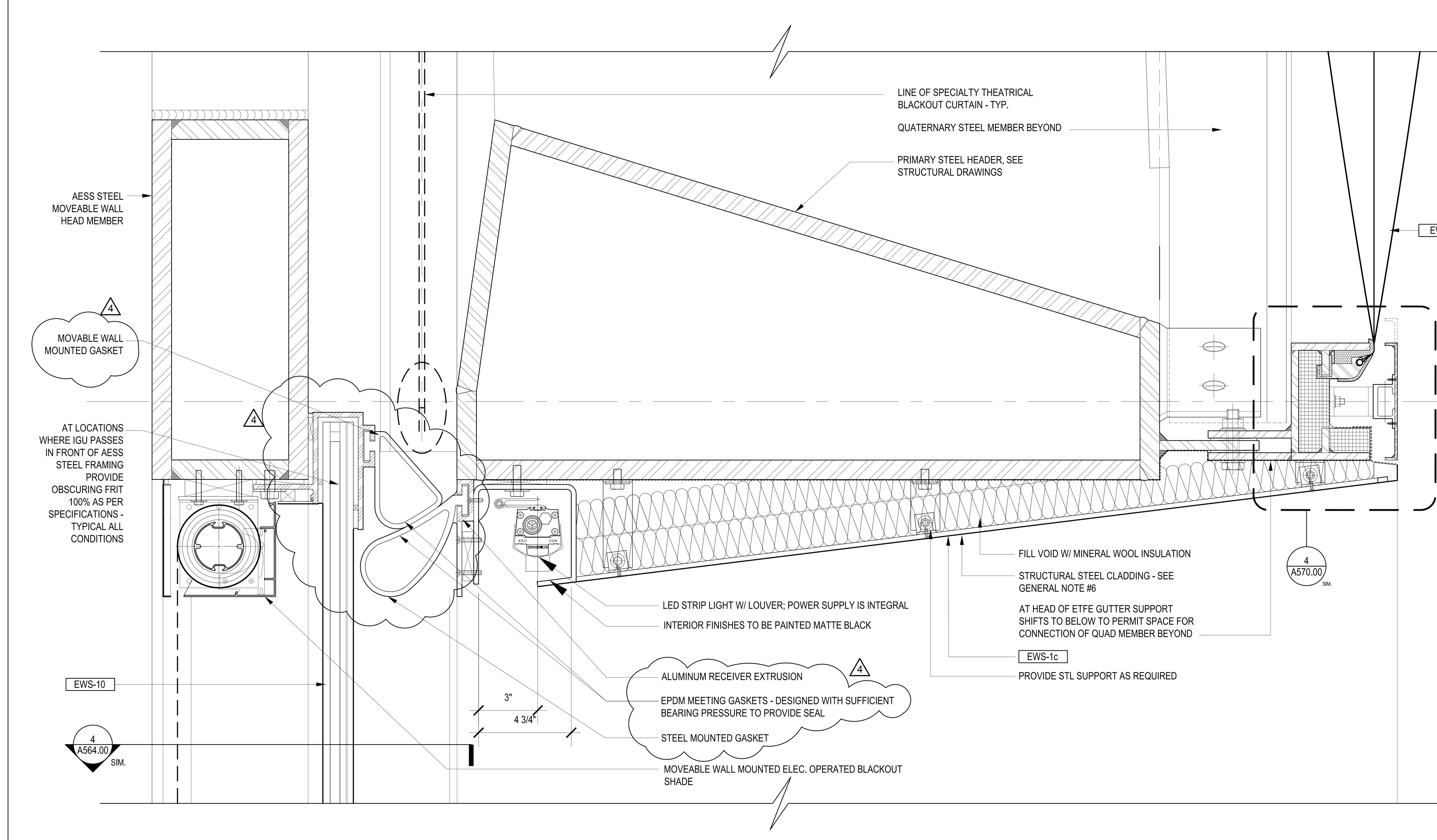
DETAIL AT VERTICAL SHADE / DOOR SLOT
VIEW TAKEN IN THE MOVABLE WALL TRAVEL ZONE (30' - 45' A.F.F.) THROUGH DOOR UPSTAND
1 — 6" = 1'-0"



PLAN DETAIL AT NORTHEAST CORNER
VIEW TAKEN AT 2' A.F.F.
2 — 3" = 1'-0"



DETAIL AT VERTICAL SHADE / DOOR SLOT - NE CORNER
VIEW TAKEN at 15' A.F.F.
3 — 3" = 1'-0"



SECTION DETAIL AT SHADE / DOOR SLOT
AT MOVABLE WALL HEAD
4 — 3" = 1'-0"

LEGEND

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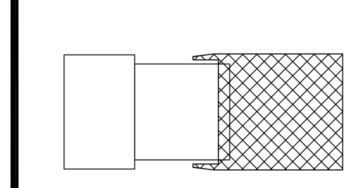

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REGISTERED ARCHITECT RICARDO SCOFIDIO 008800 STATE OF NEW YORK

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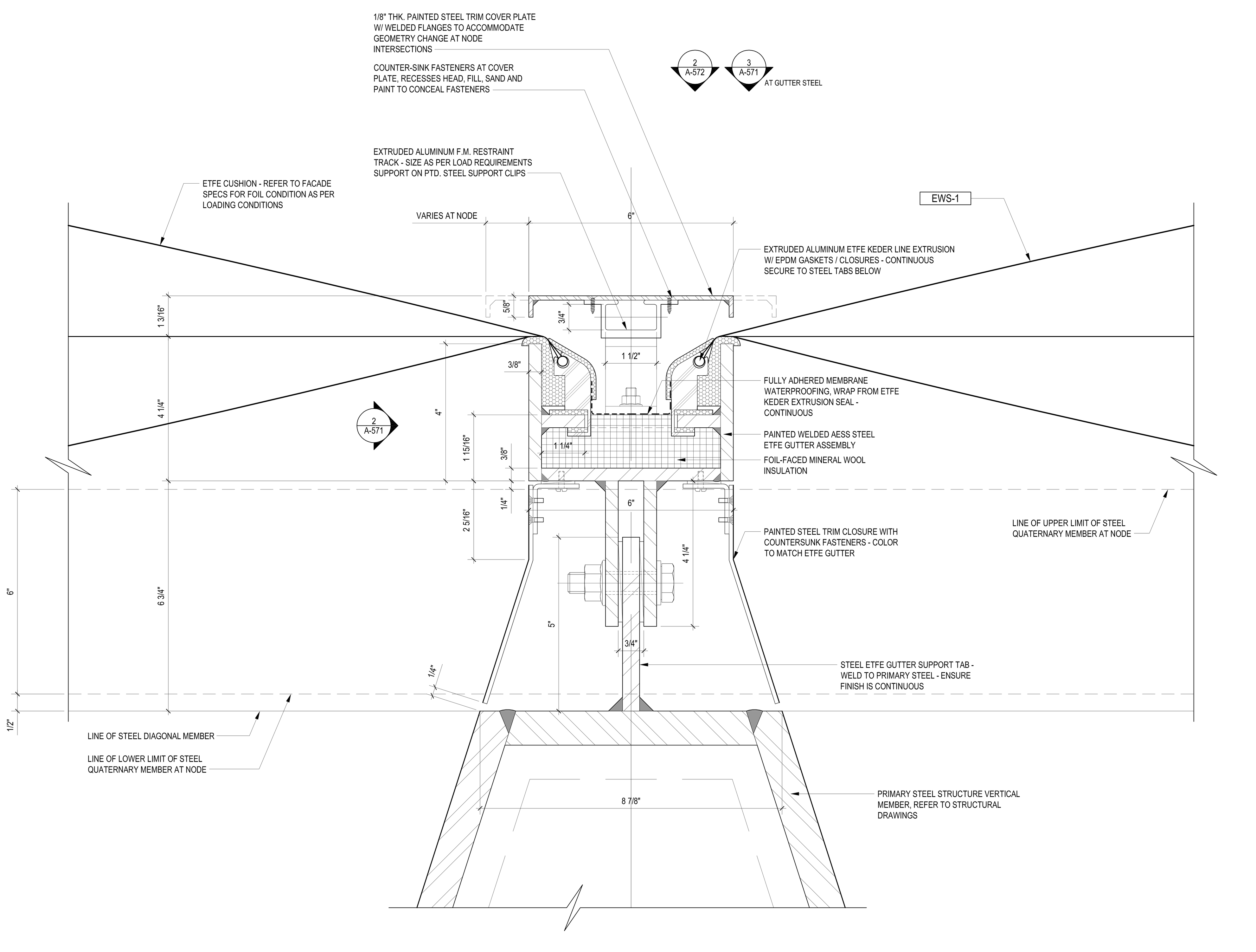
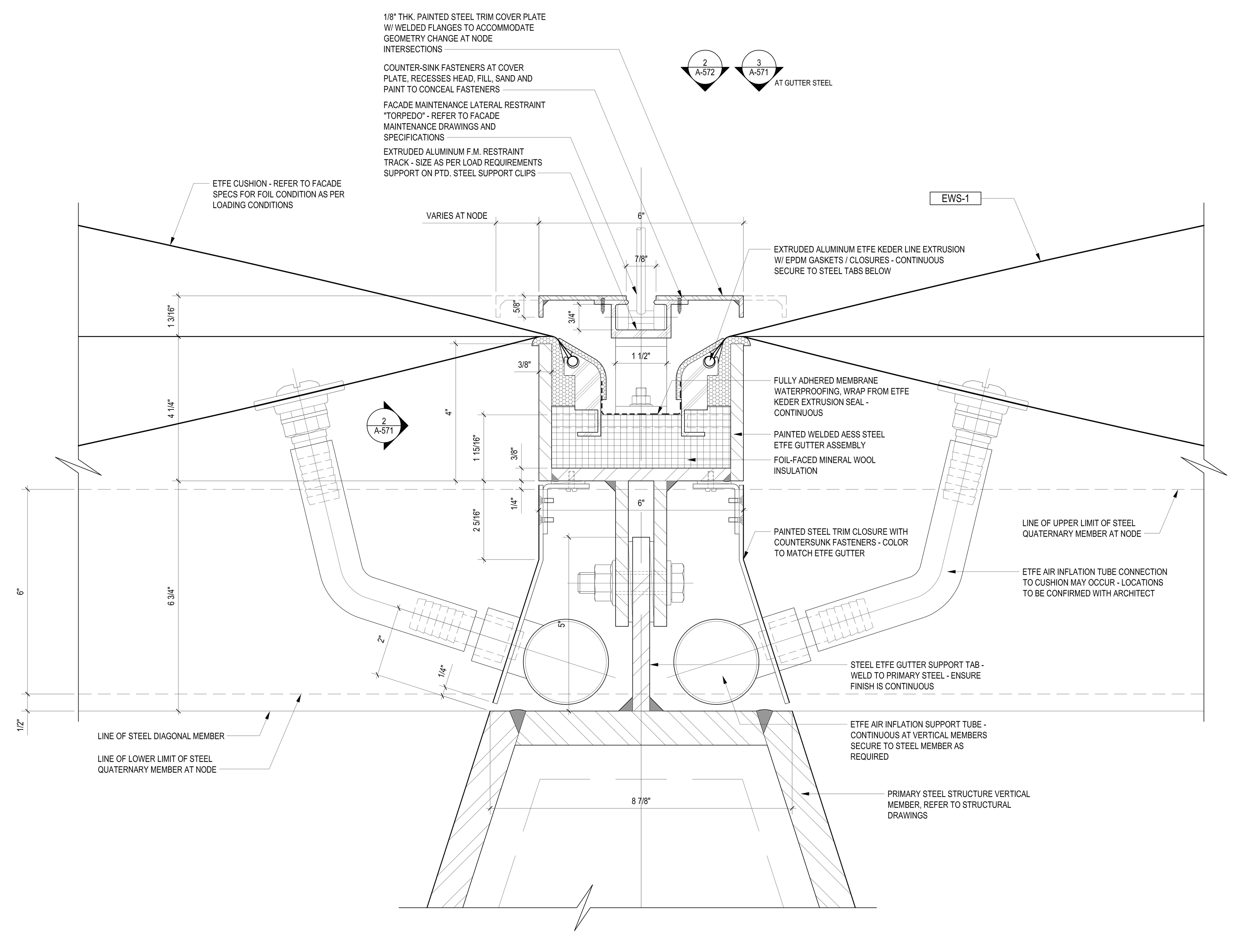
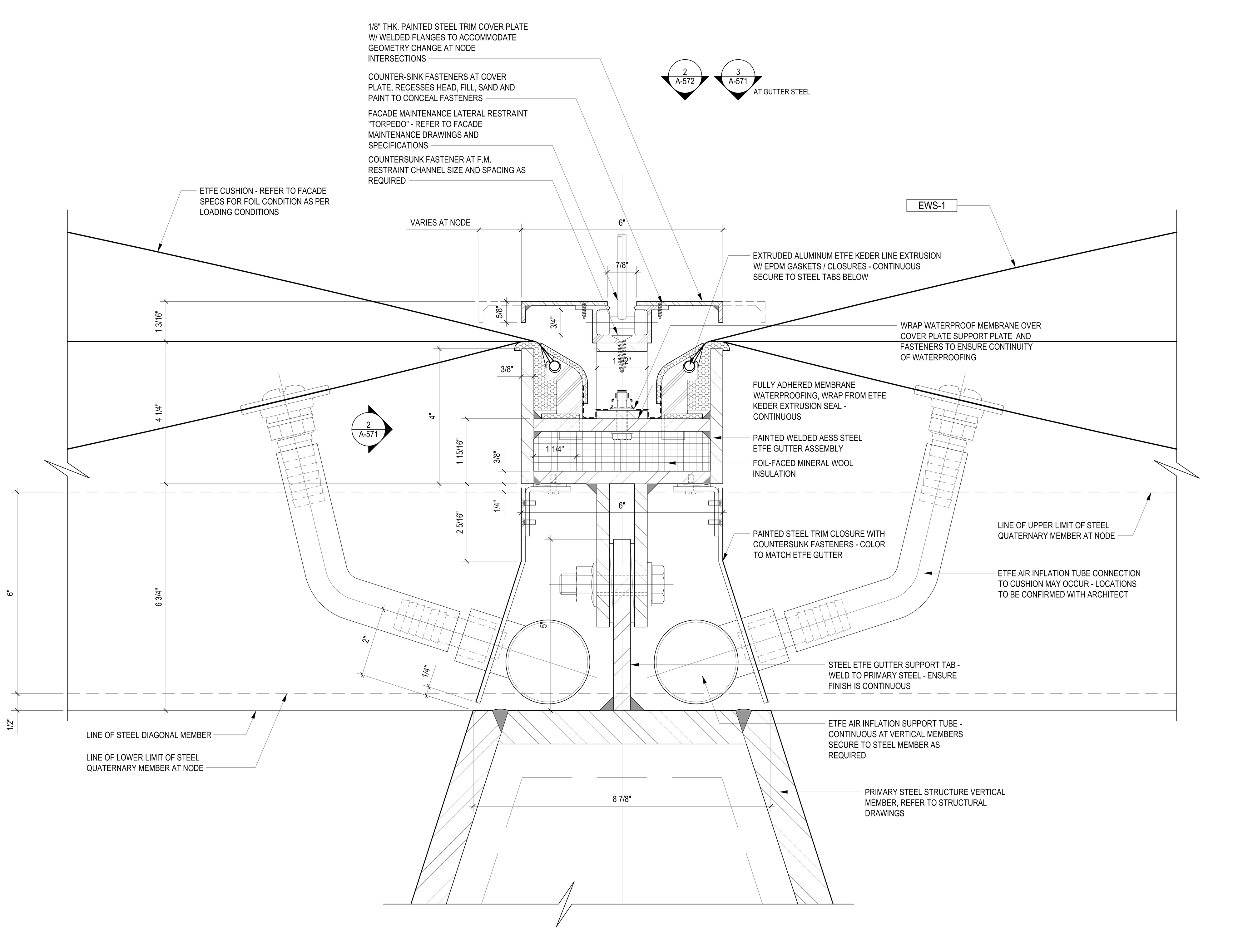


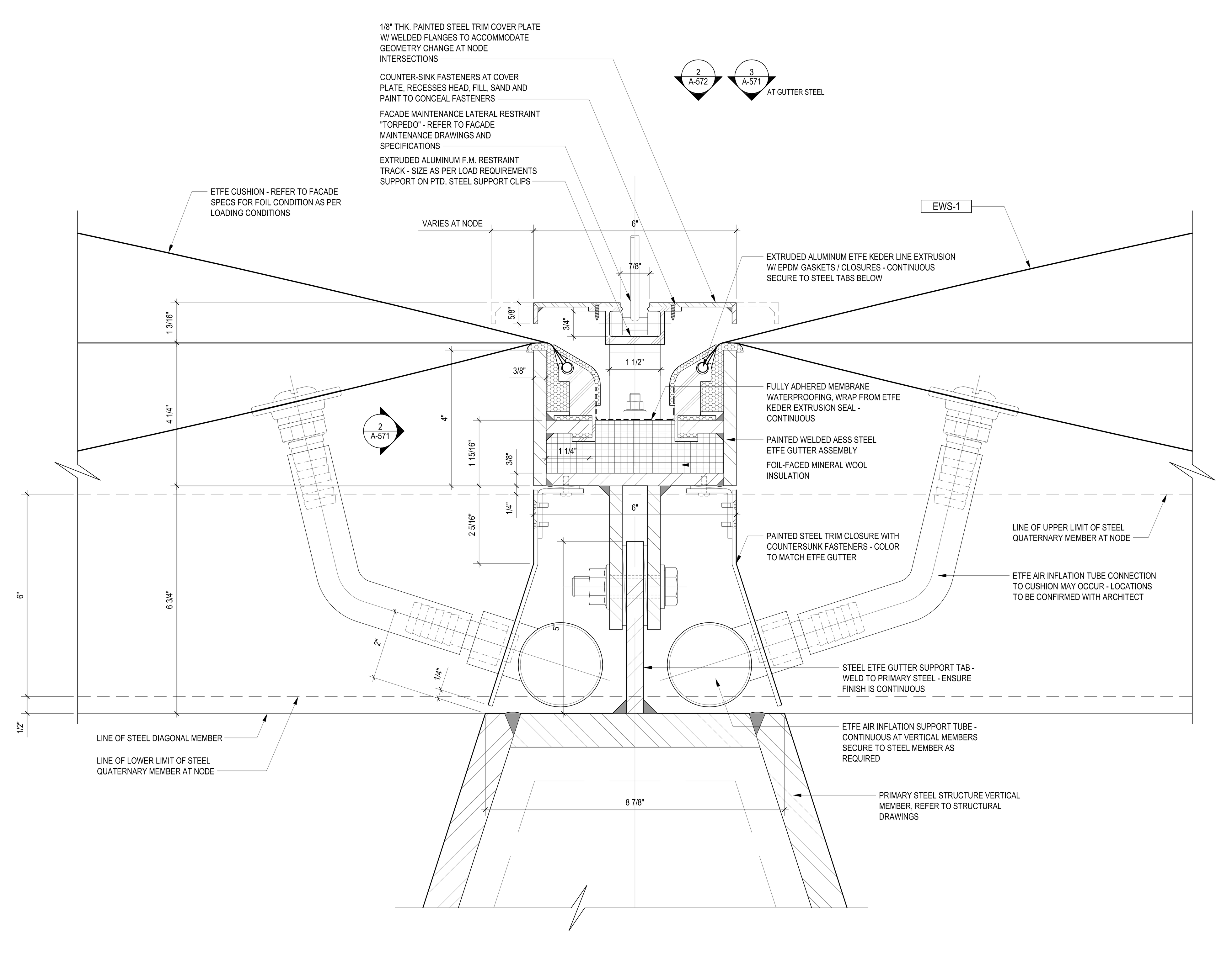
DIAGONAL ETFE DETAIL
AT KEIDER EXTRUSION SUPPORT
1
6" = 1'-0"



VERTICAL ETFE DETAIL
AWAY FROM KEIDER EXTRUSION SUPPORT
3
6" = 1'-0"



VERTICAL ETFE DETAIL
AT COVER PLATE SUPPORT
2
6" = 1'-0"



VERTICAL ETFE DETAIL
AT KEIDER EXTRUSION SUPPORT
4
6" = 1'-0"

LEGEND

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APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
NYC Development Hub

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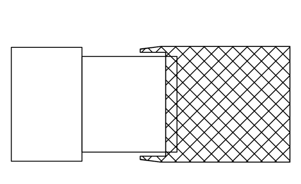
KEY PLAN



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2		50% CONSTRUCTION DOCUMENTS	08.15.2014
1		ADV. PROCUREMENT BID SET	06.16.2014

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REGISTERED ARCHITECT RICARDO SCOFIDIO 008800 STATE OF NEW YORK

DRAWN BY
Author

CHECKED BY
Checker

PROJECT NUMBER
11017

TITLE
TITLEBLOCK
Shed
ETFE Cladding Details
SCALE: 6" = 1'-0"

0 8 16 24

DRAWING NO.
A-570.00

B-SCAN NO.

A-570.00

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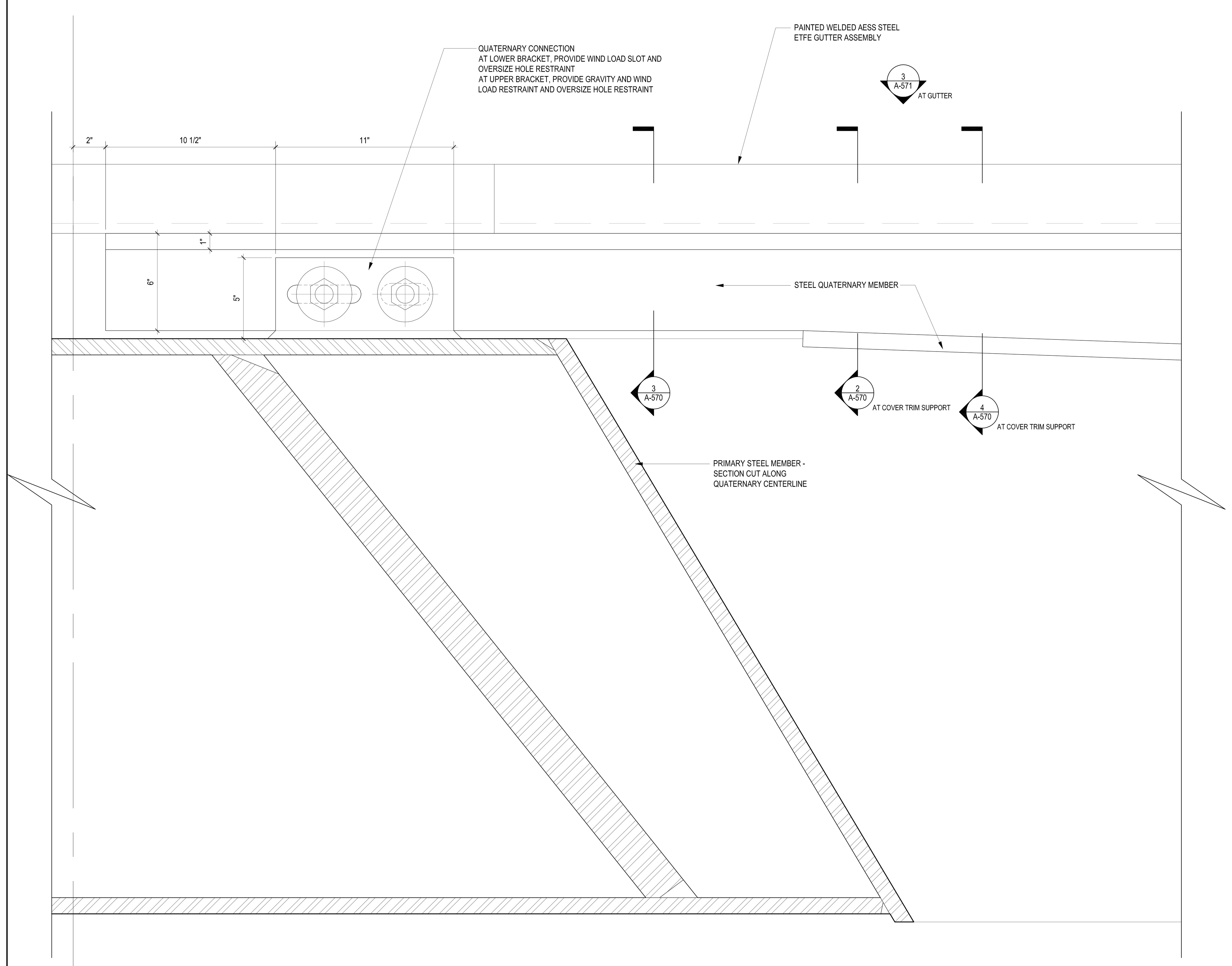
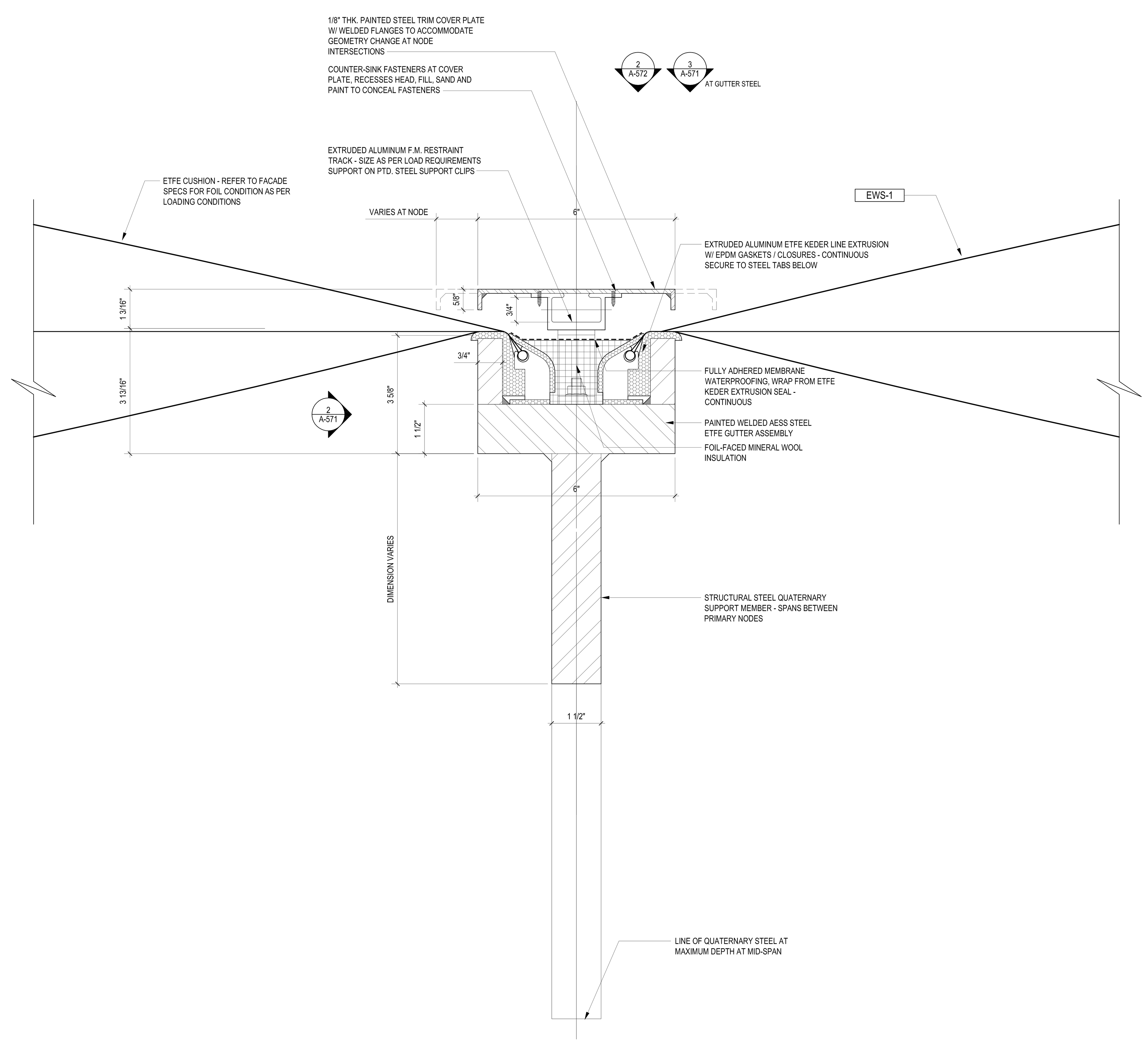
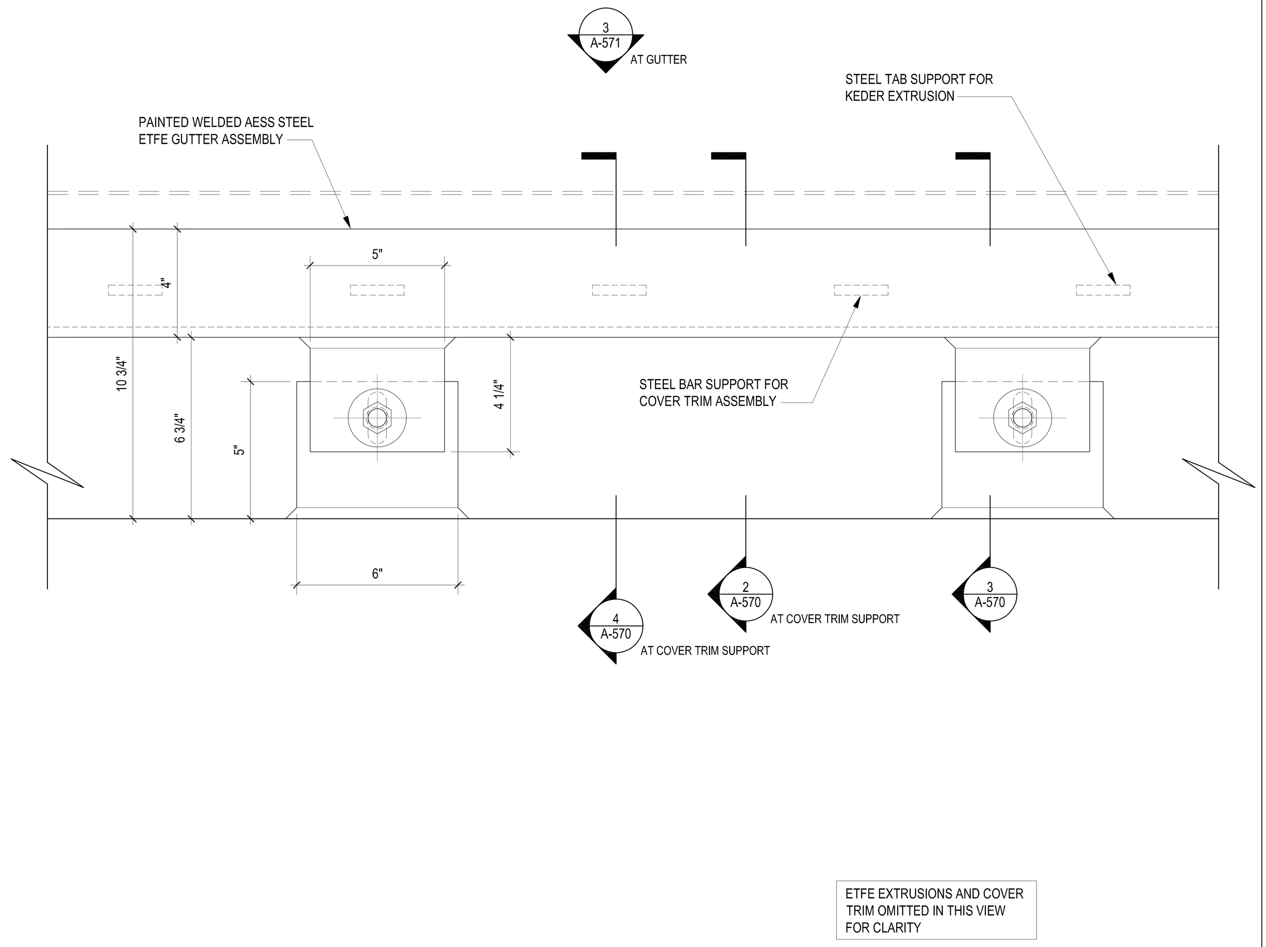


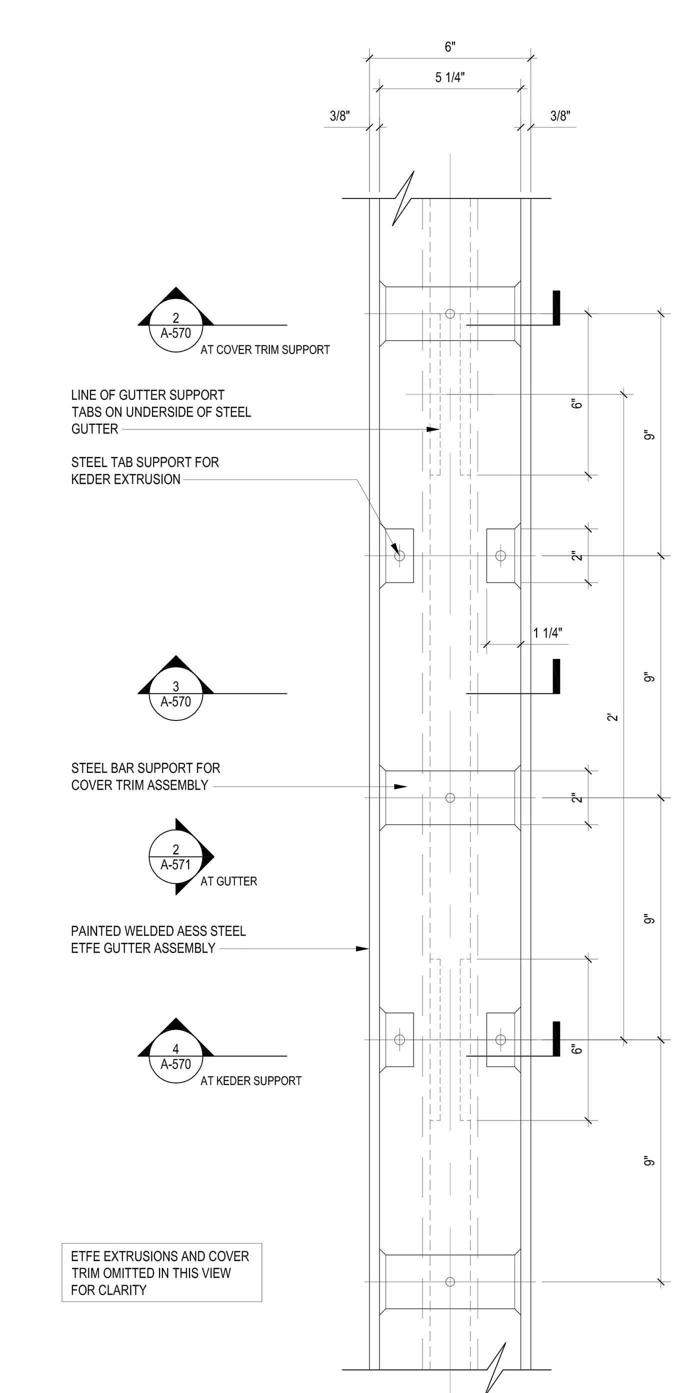
QUATERNARY BRACKET SUPPORT SECTION ALONG QUAD CENTERLINE | 1 | 3" = 1'-0"



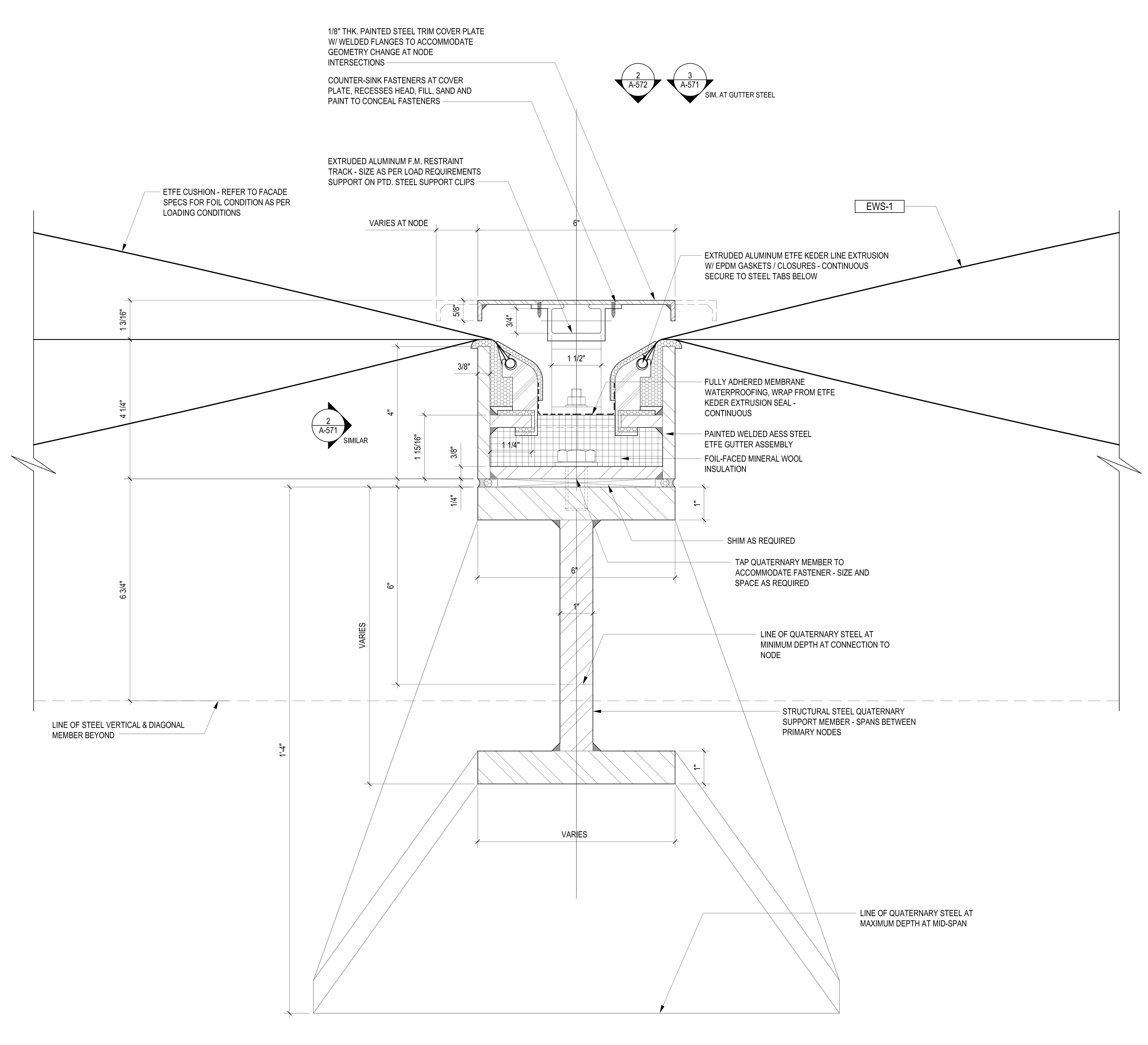
EAST - QUATERNARY MEMBER ETFE DETAIL AT KEIDER EXTRUSION SUPPORT | 4 | 6" = 1'-0"



ELEVATION AT ETFE GUTTER ONLY STEEL SHOWN FOR CLARITY | 2 | 3" = 1'-0"



PLAN AT ETFE GUTTER ONLY STEEL SHOWN FOR CLARITY | 3 | 3" = 1'-0"



N/S - QUATERNARY MEMBER ETFE DETAIL AT KEIDER EXTRUSION SUPPORT | 5 | 6" = 1'-0"

LEGEND

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Damian Trico
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NYC Development Hub

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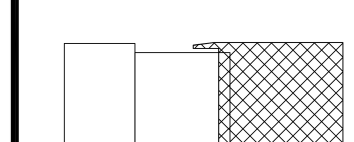
KEY PLAN



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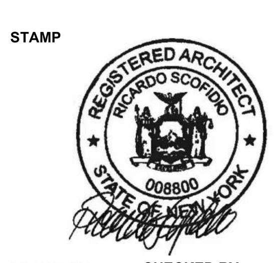

DRAWN BY Author
CHECKED BY Checker

PROJECT NUMBER
11017

TITLE
TITLEBLOCK
Shed
ETFE Cladding Details
SCALE: As indicated

0 8 16 24

DRAWING NO.
A-571.00

B-SCAN NO.
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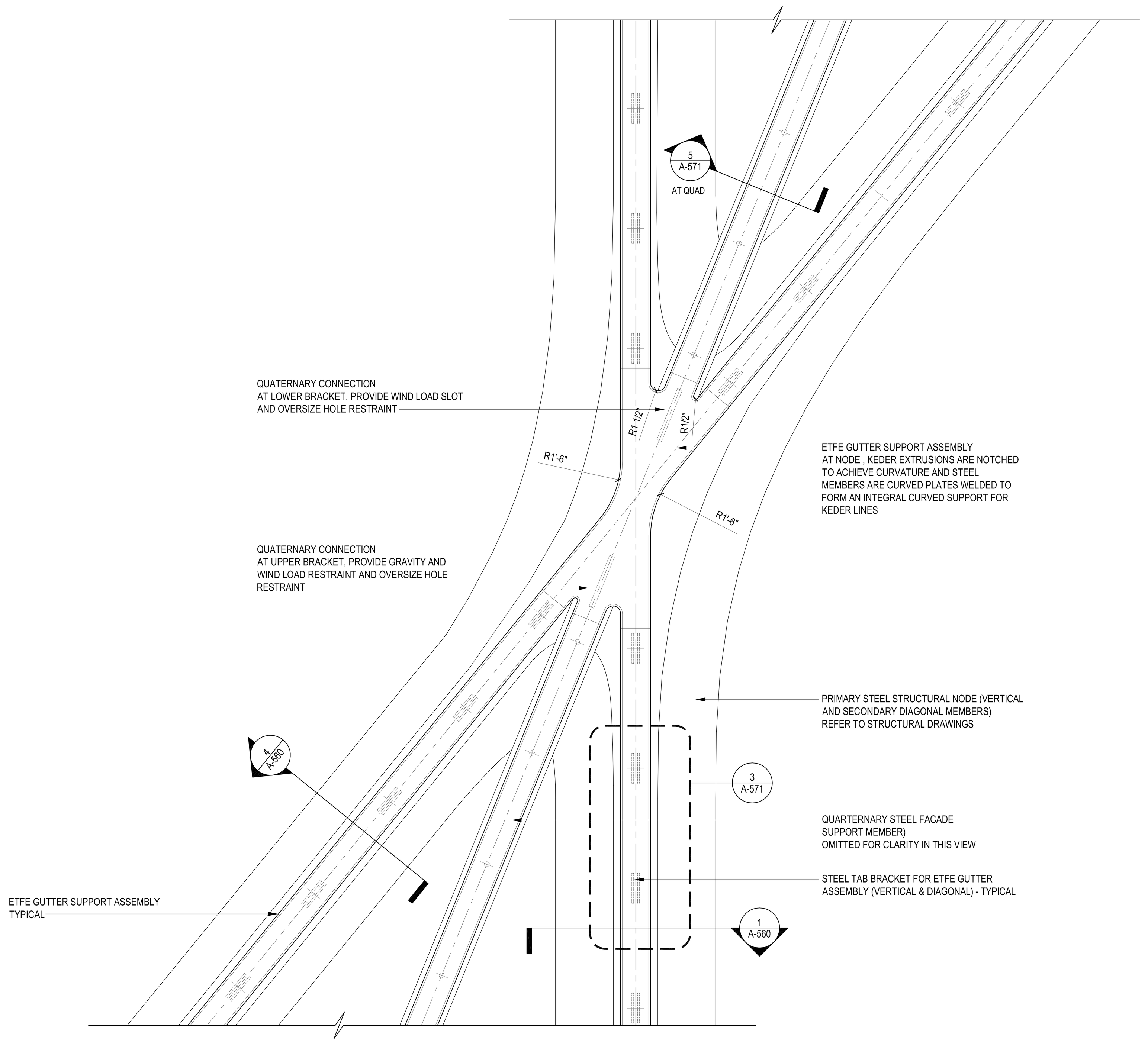
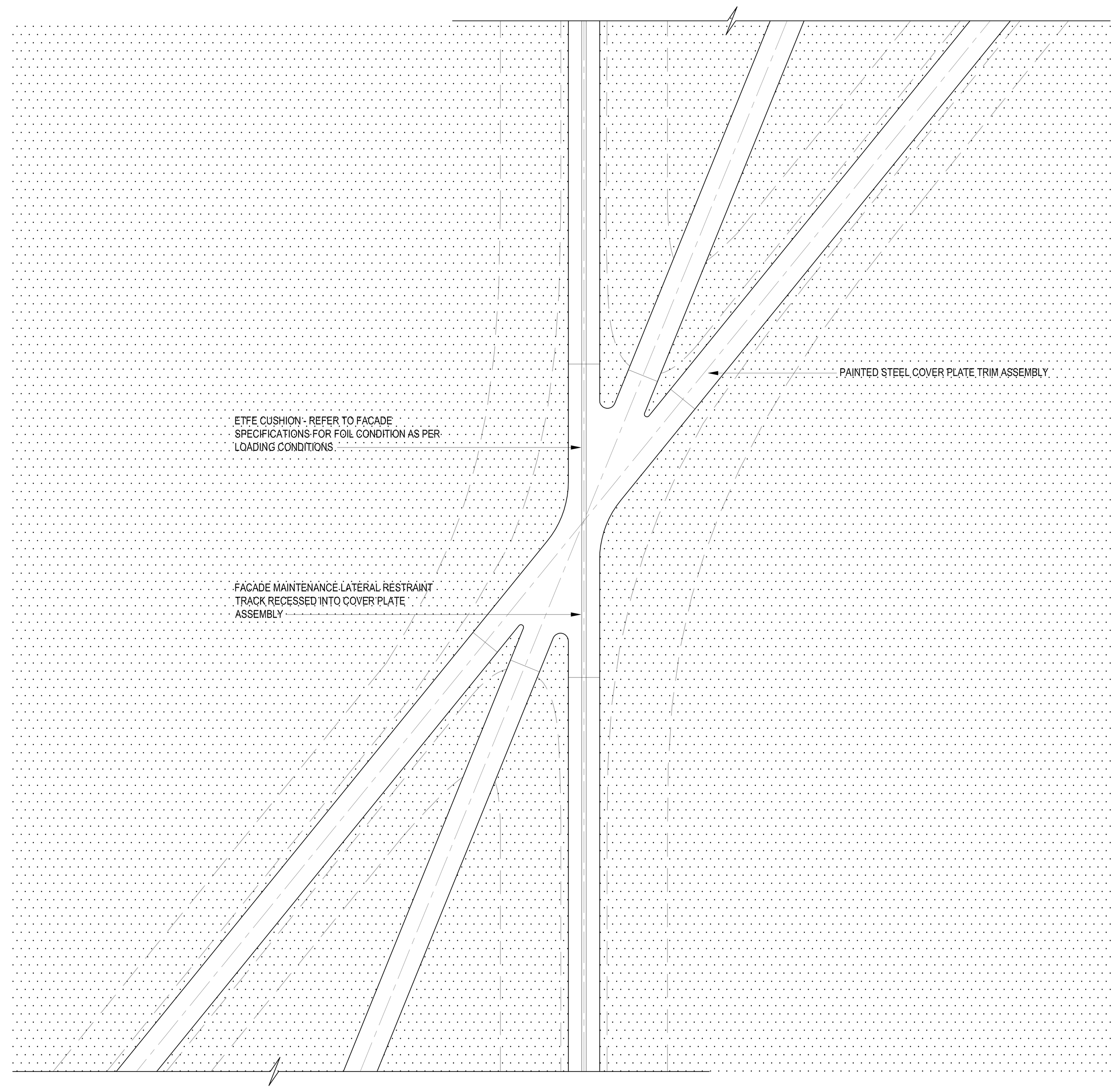


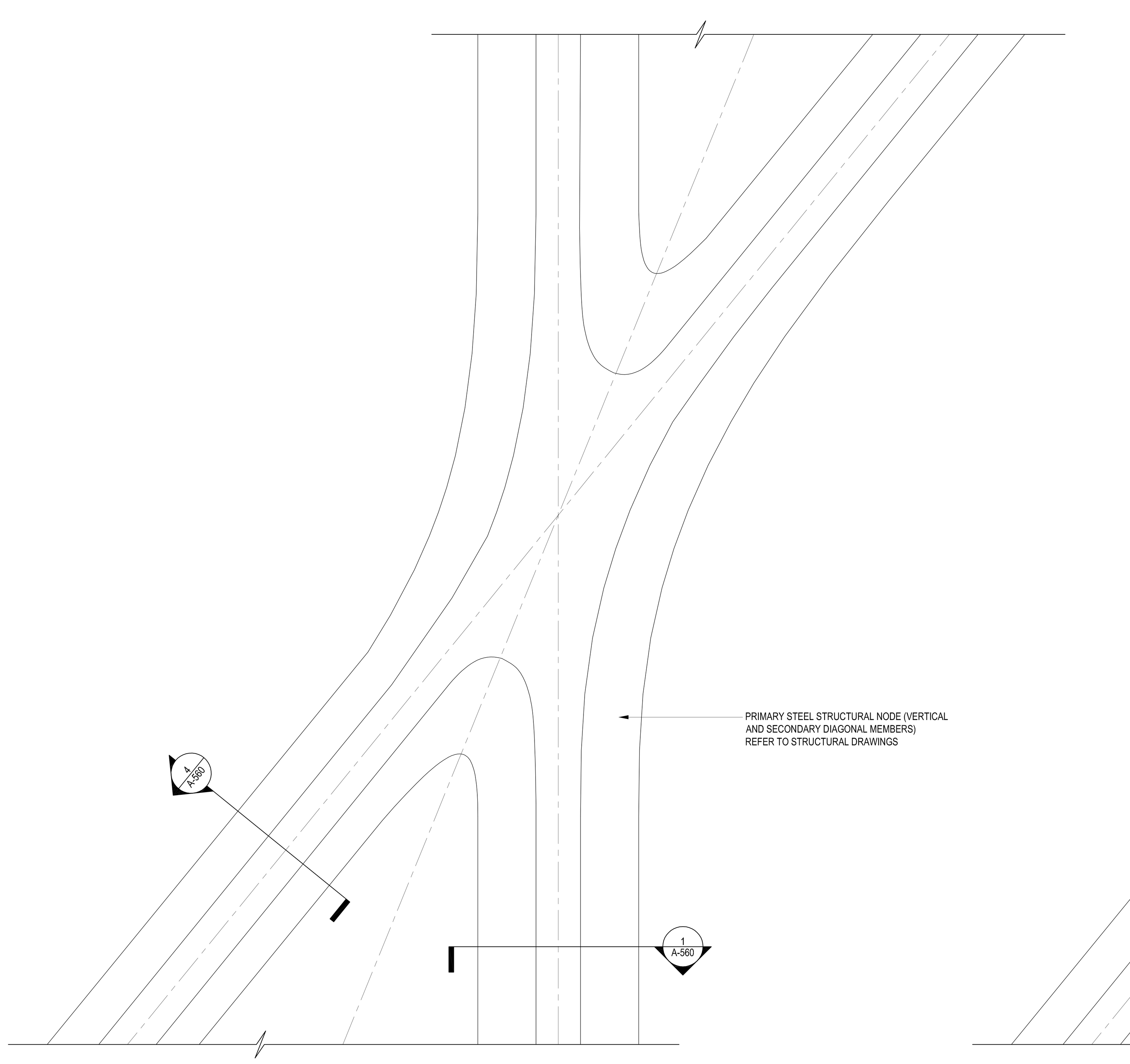
TYPICAL NODE
ETFE STEEL GUTTER CHANNEL / COVER PLATE REMOVED



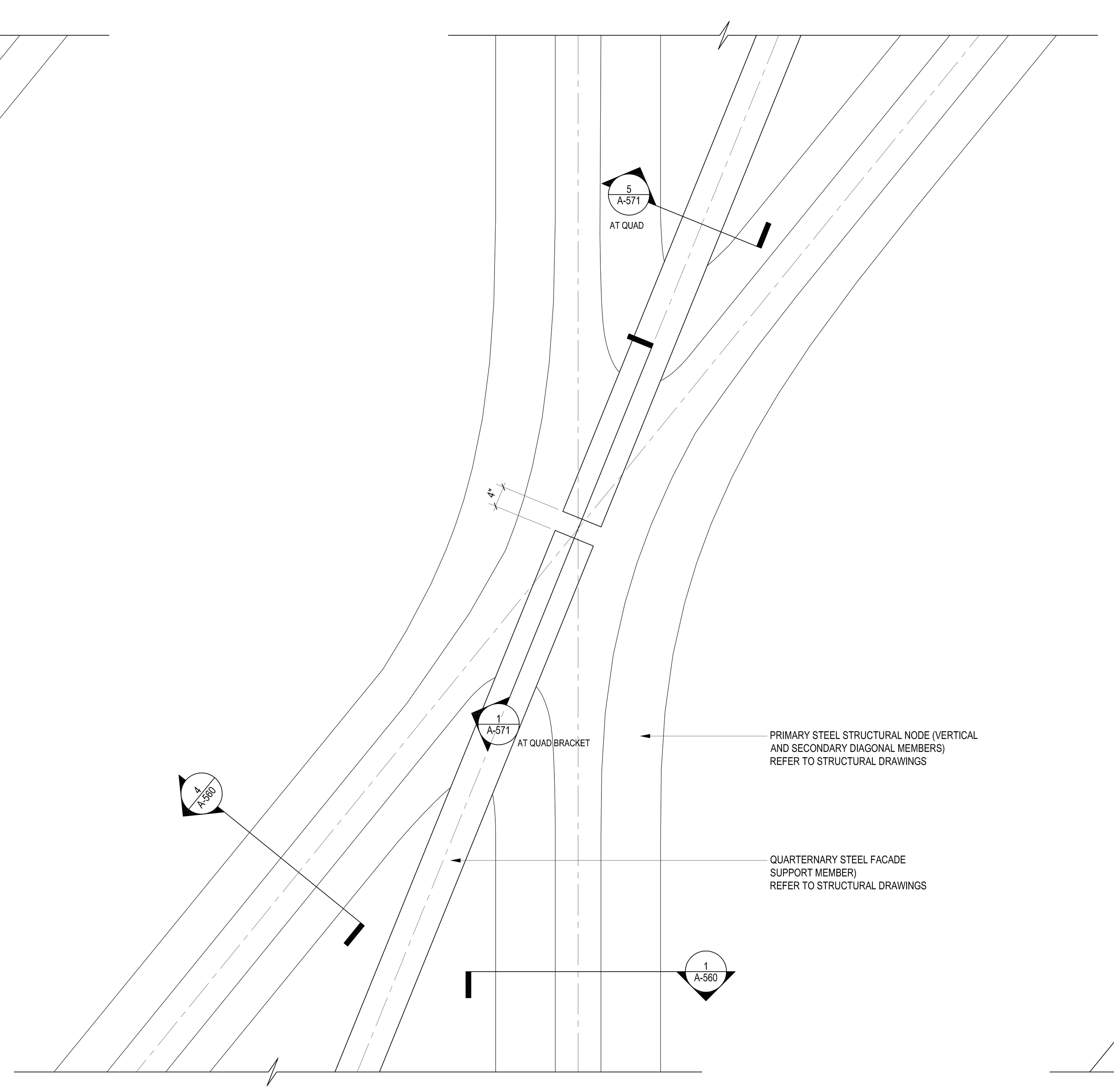
TYPICAL NODE
FROM EXTERIOR

PARTIAL ELEVATIONS AT ETFE INTERSECTION AT TYPICAL NODE | 1 | 3/4" = 1'-0"

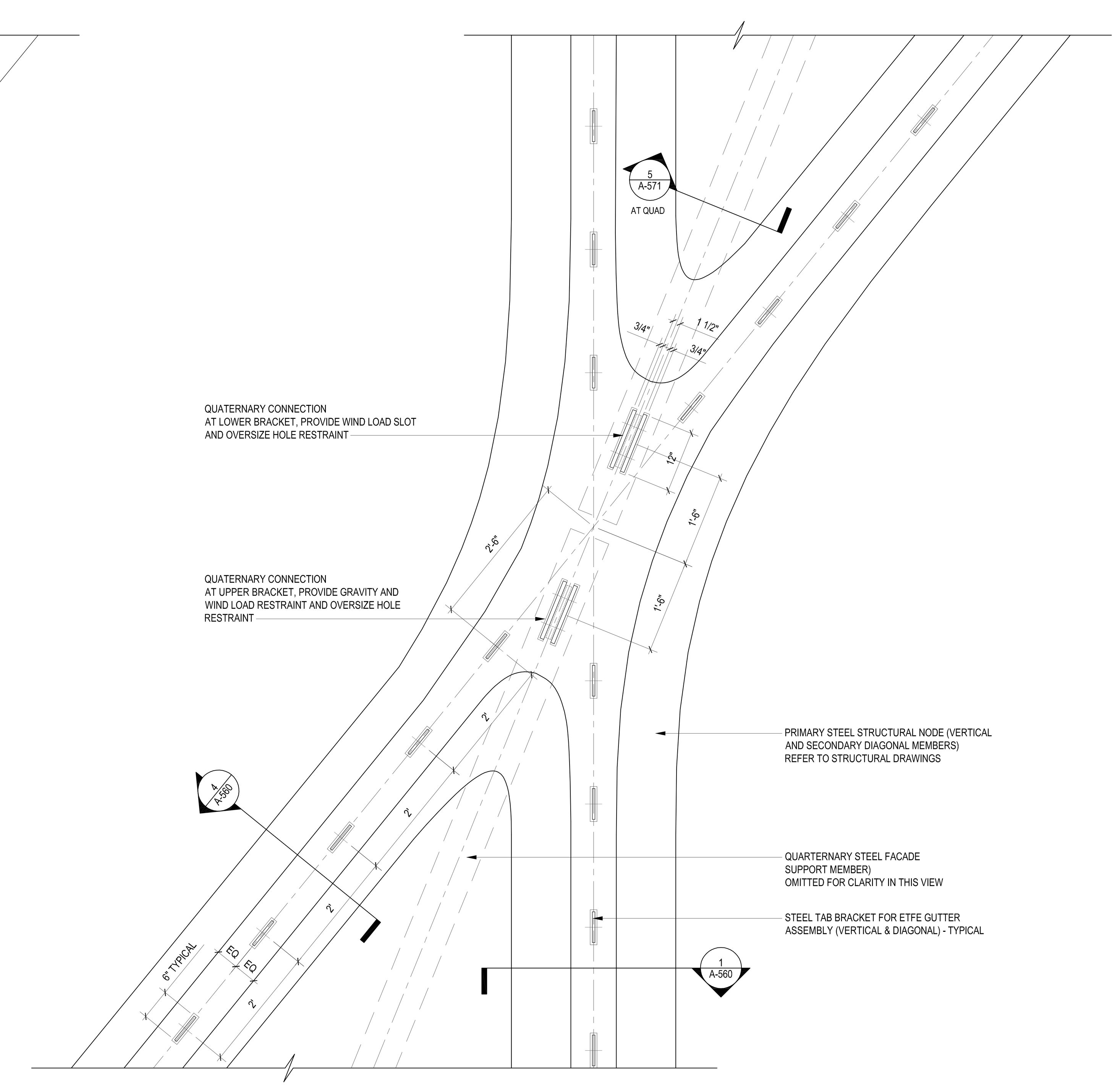
PARTIAL ELEVATIONS AT ETFE INTERSECTION AT TYPICAL NODE | 2 | 3/4" = 1'-0"



TYPICAL NODE
PRIMARY STEEL



TYPICAL NODE
\+ QUATERNARY STEEL



TYPICAL NODE
PRIMARY STEEL + FACADE BRACKETS
QUADS OMITTED FOR CLARITY

PARTIAL ELEVATIONS AT ETFE INTERSECTION AT TYPICAL NODE | 3 | 3/4" = 1'-0"

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Date: 07/15/2016
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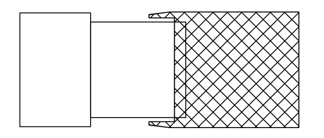

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DRAWN BY Author
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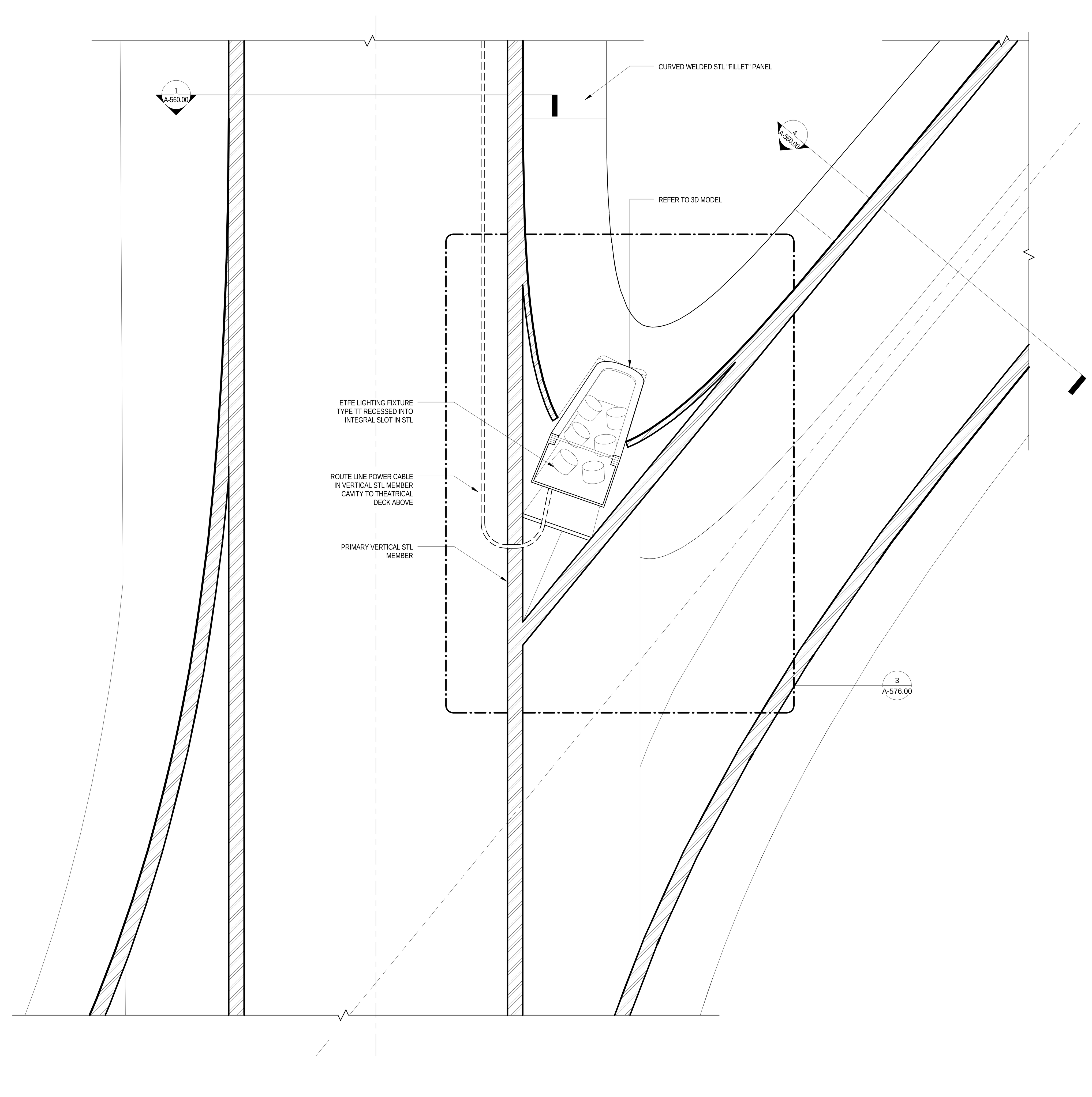
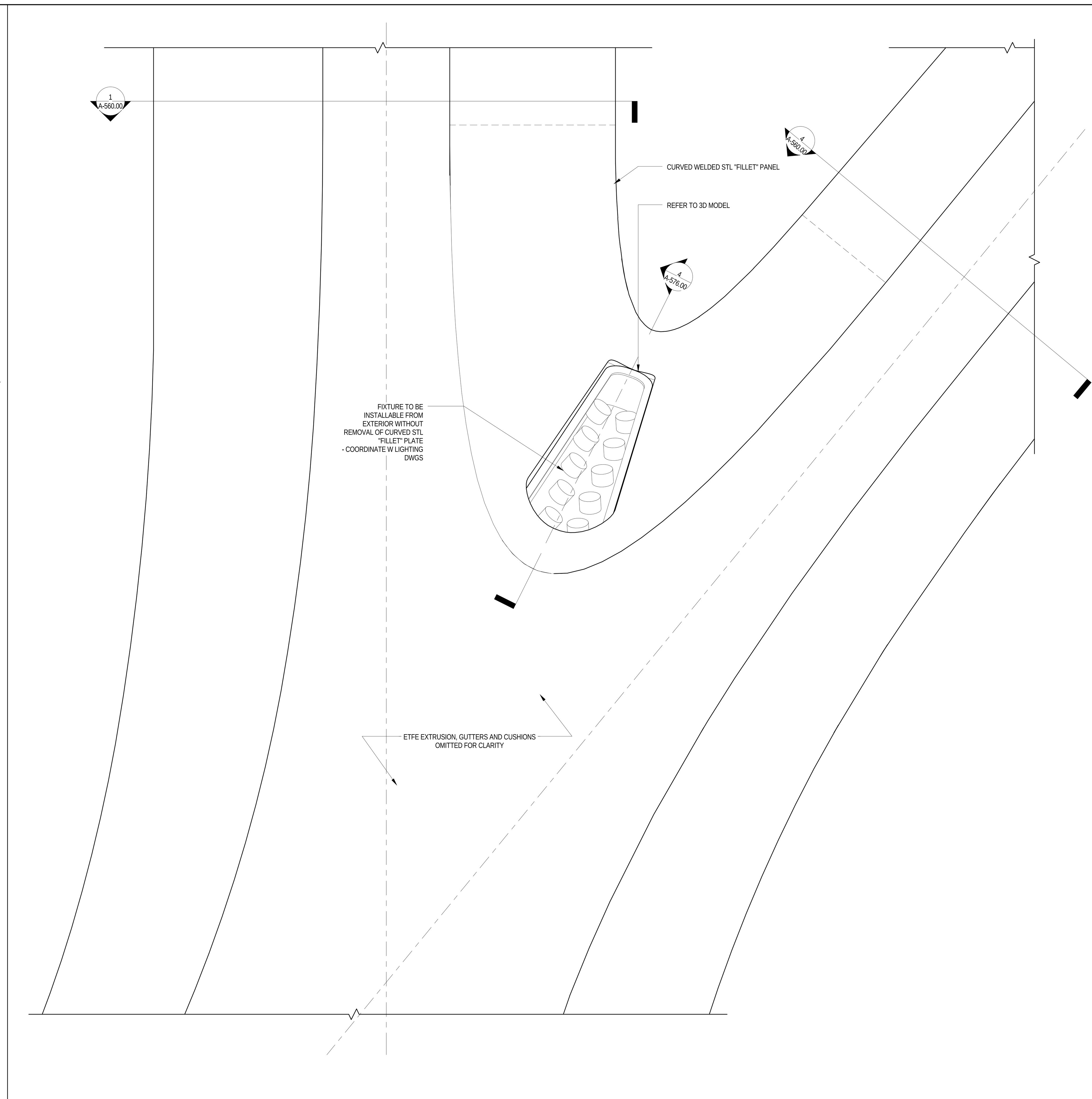
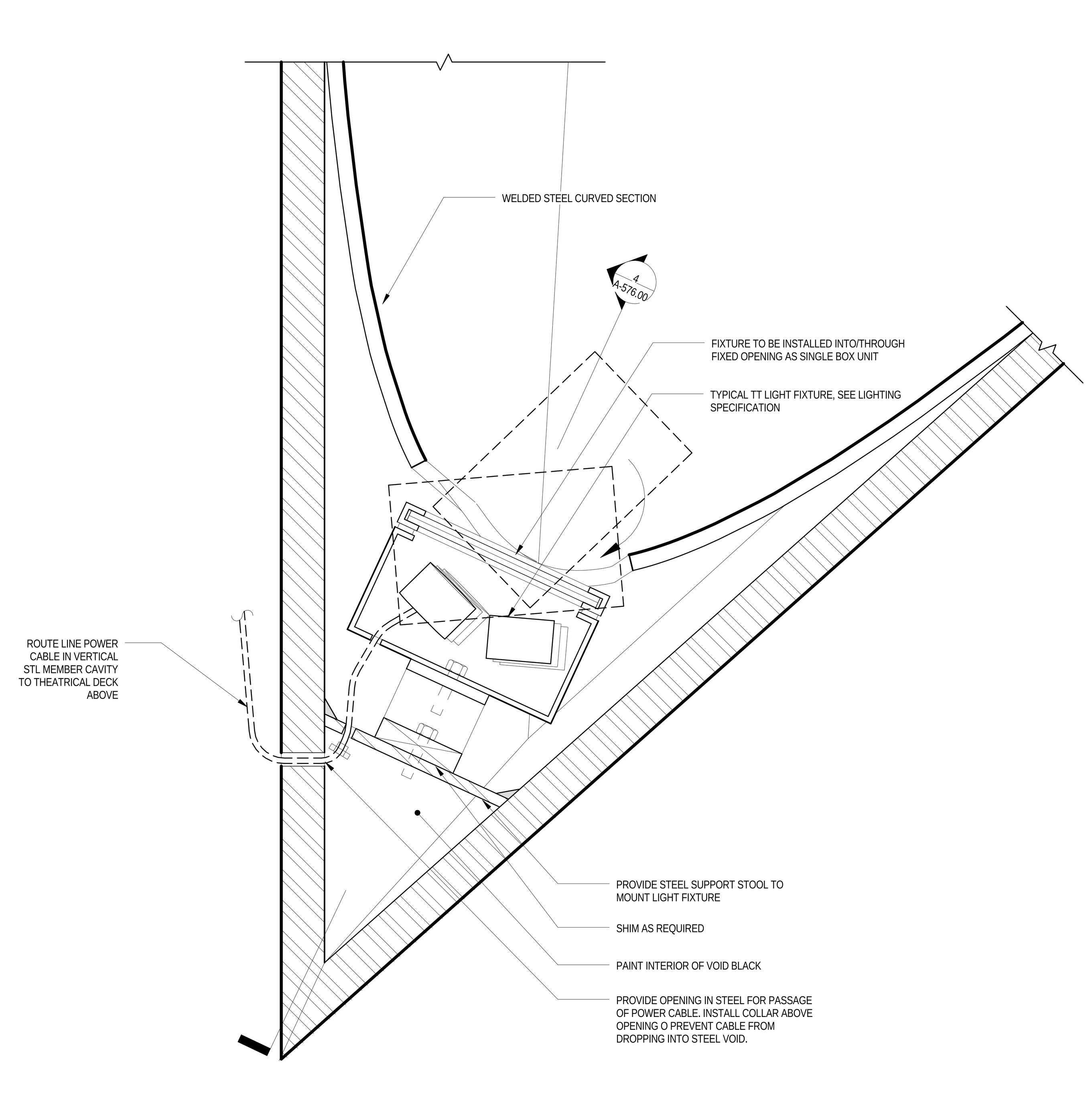


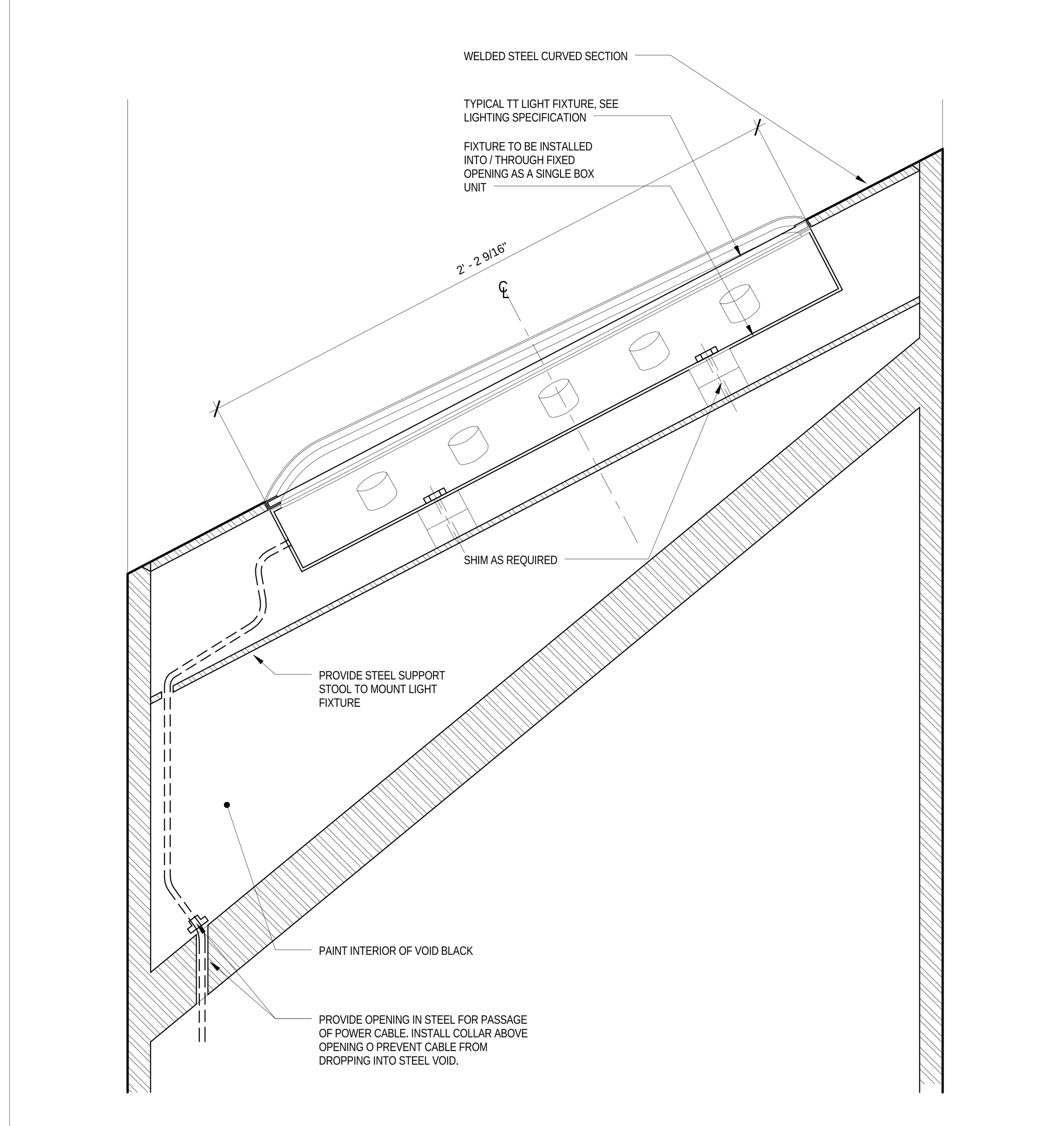
SECTION AT ETFE LIGHTING — 1 — 3" = 1'-0"



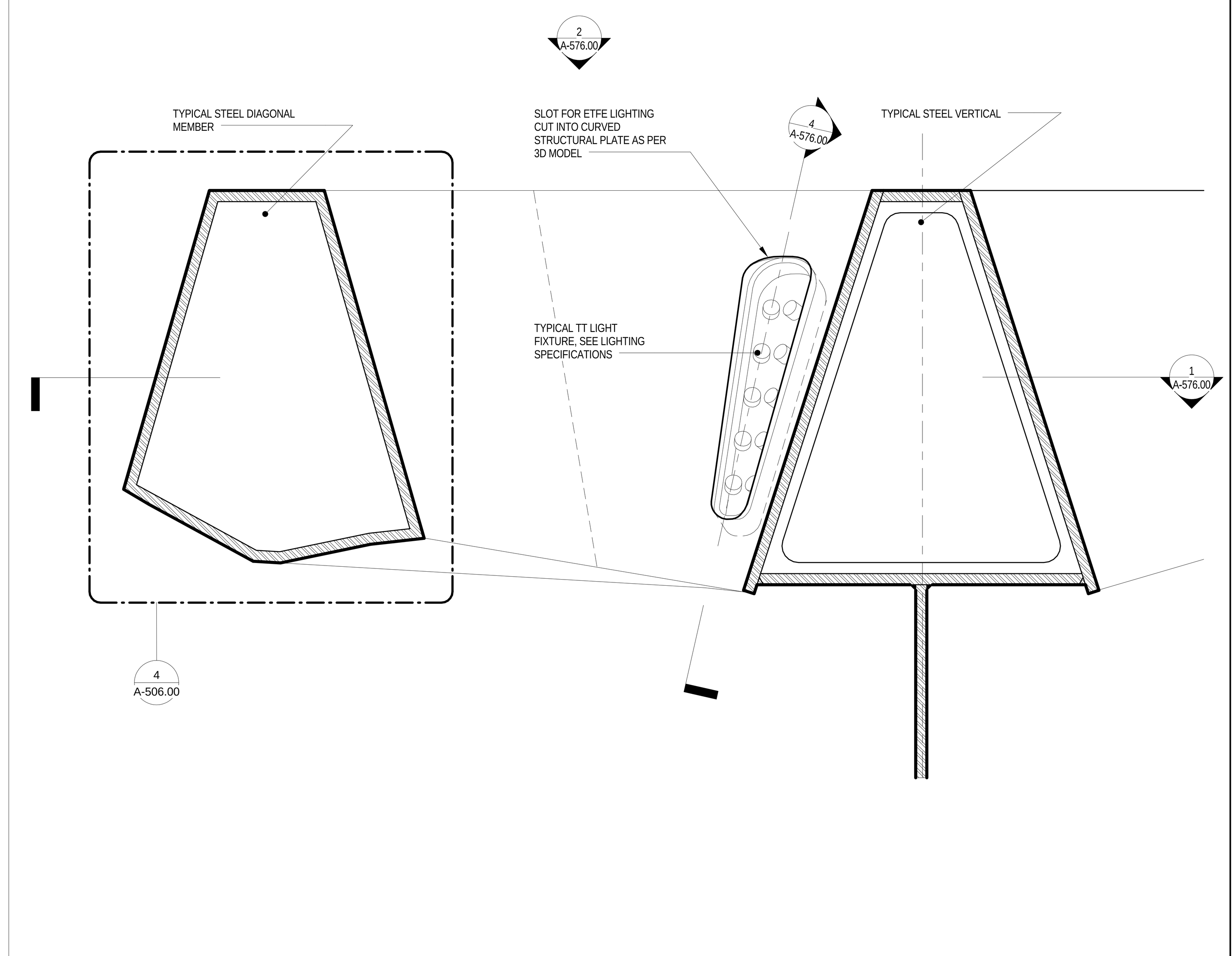
ELEVATION AT ETFE LIGHTING — 2 — 3" = 1'-0"



CROSS SECTION DETAIL AT ETFE LIGHTING — 3 — 6" = 1'-0"



LONGITUDIONAL SECTION DETAIL AT ETFE LIGHTING — 4 — 3" = 1'-0"



PLAN DETAIL AT LIGHT FIXTURE — 5 — 1 1/2" = 1'-0"

LEGEND

GENERAL NOTES

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4.

Typical Node Elsewhere:
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Damian Titus
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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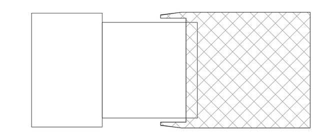

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2		50% CONSTRUCTION DOCUMENTS	08.15.2014
1		ADV. PROCUREMENT BID SET	06.16.2014

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REGISTERED ARCHITECT
RICARDO SCOFIDIO
008800
STATE OF NEW YORK

DRAWN BY HS
CHECKED BY CB

PROJECT NUMBER
11017

TITLE
ELEMENTS DETAILS - SHED LIGHTING

SCALE: As indicated

0 8 16 24

DRAWING NO.
A-576.00

B-SCAN NO.
A-576.00

192 of 291

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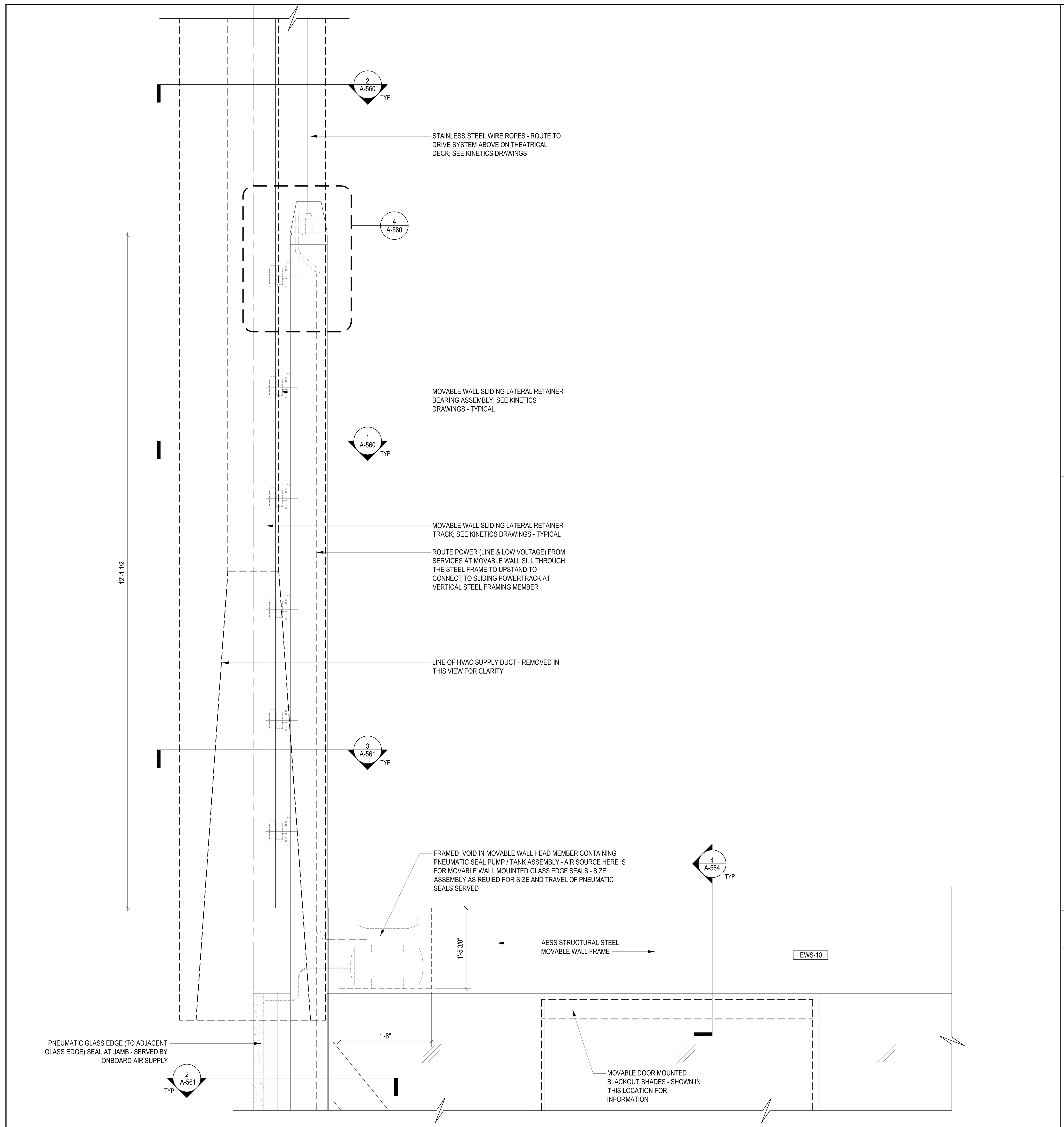
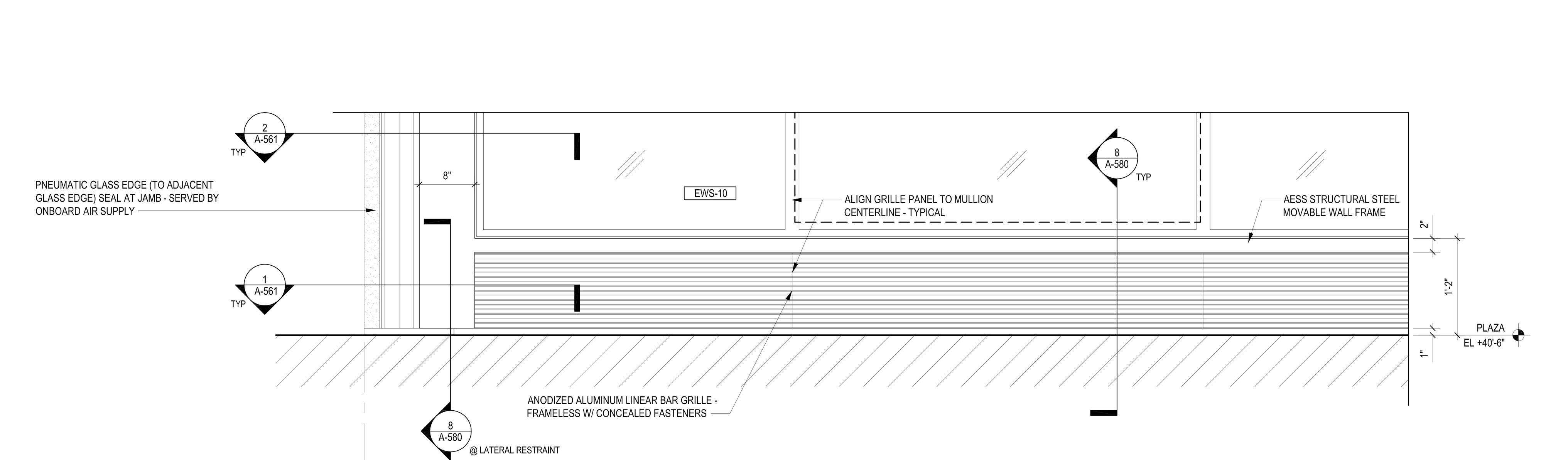
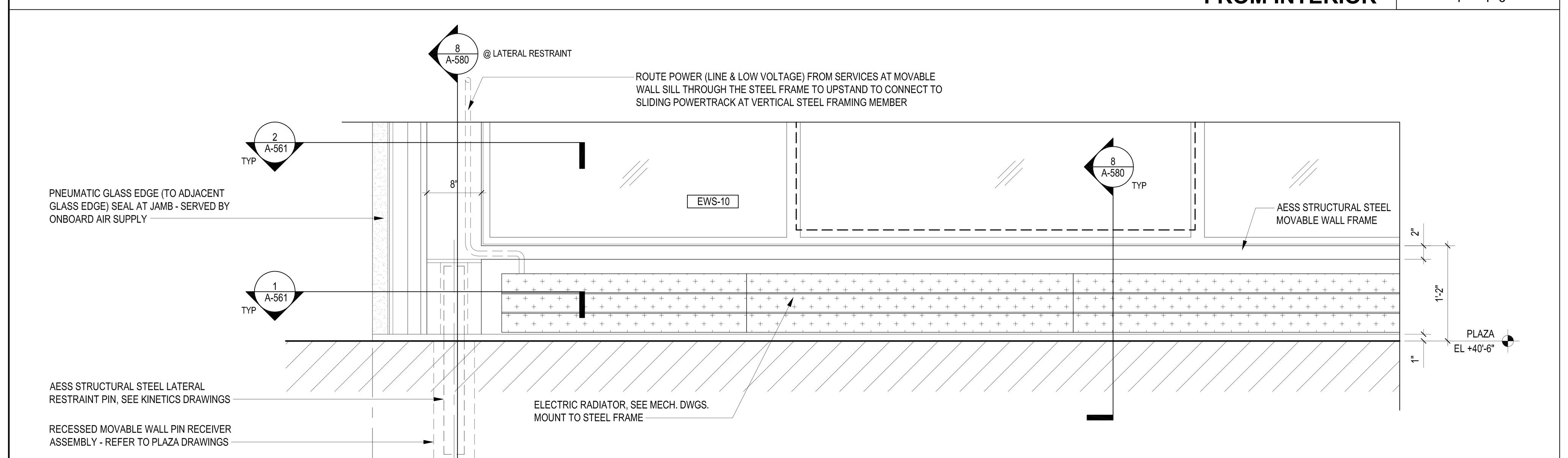


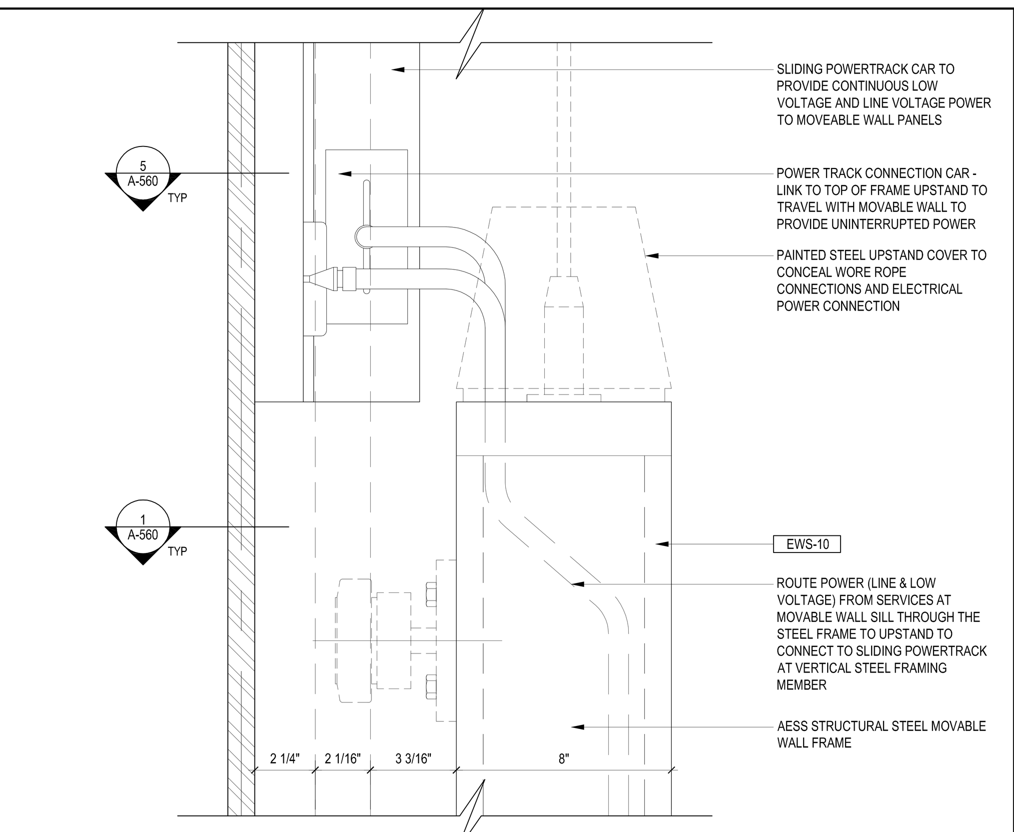
PARTIAL ELEVATION AT MOVABLE WALL HEAD | 1 | 1" = 1'-0"



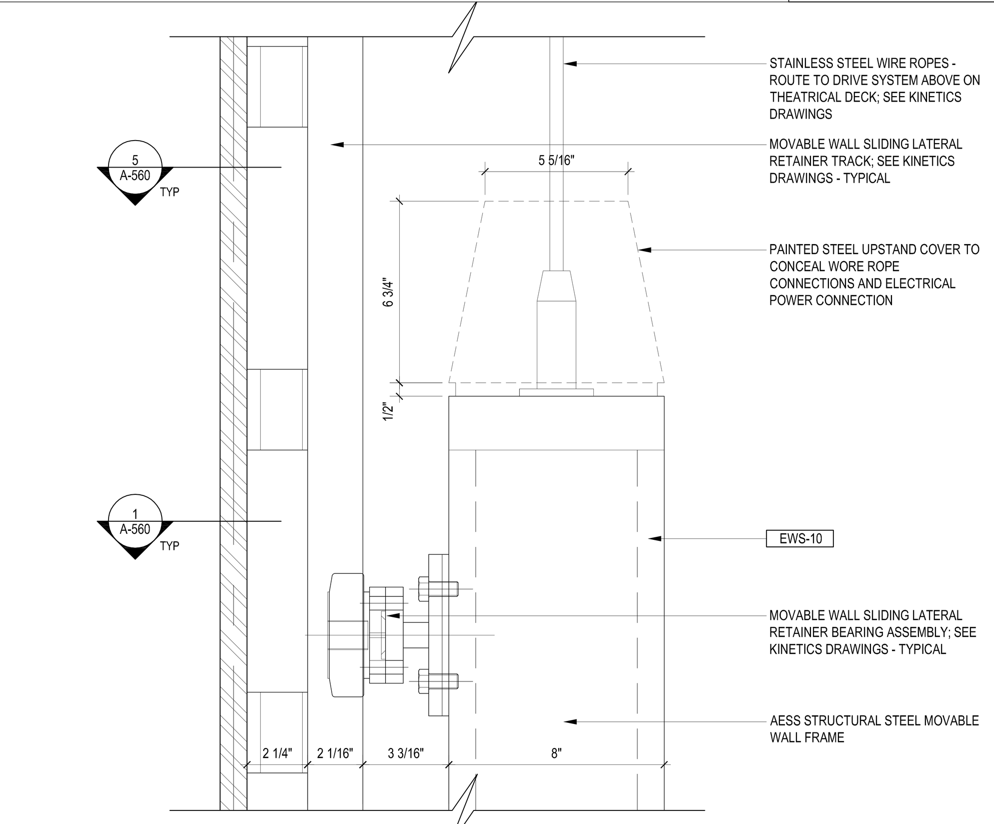
PARTIAL ELEVATION AT MOVABLE WALL SILL FROM INTERIOR | 2 | 1" = 1'-0"



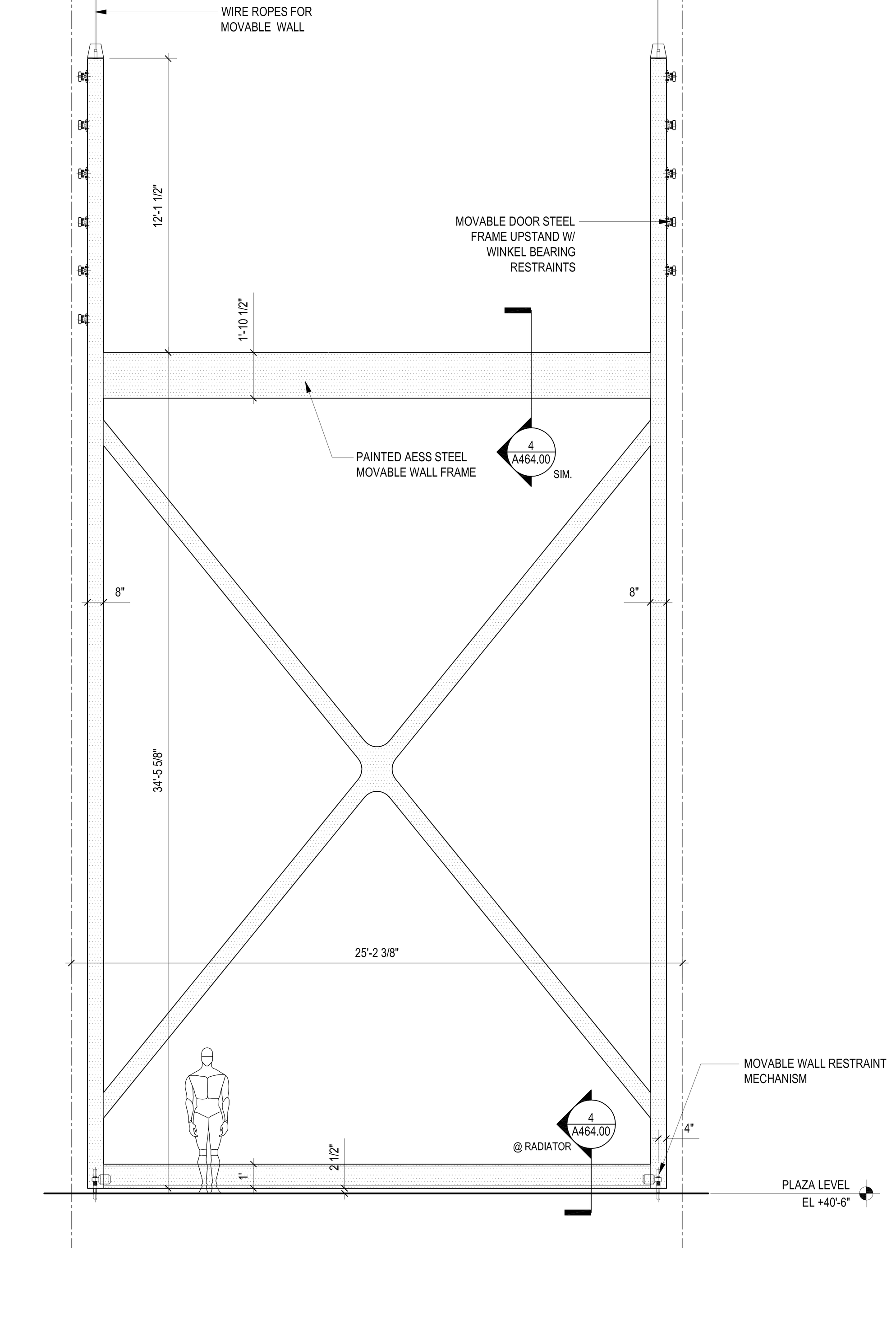
PARTIAL ELEVATION AT MOVABLE WALL SILL WITH GRILLE REMOVED TO EXPOSE RADIATORS | 3 | 1" = 1'-0"



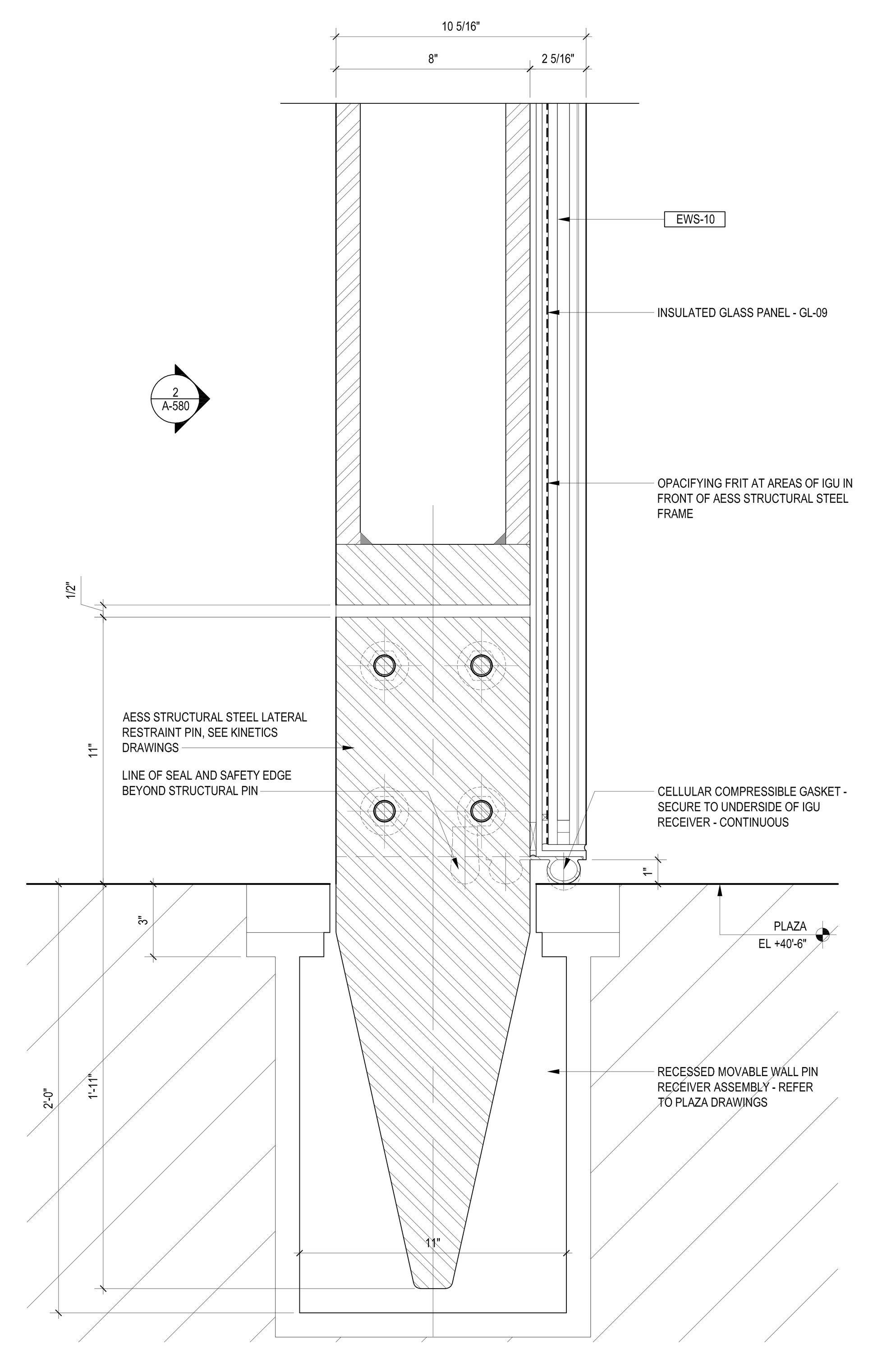
ELEVATION AT TOP OF MOVABLE WALL AT POWERTRACK | 4 | 3" = 1'-0"



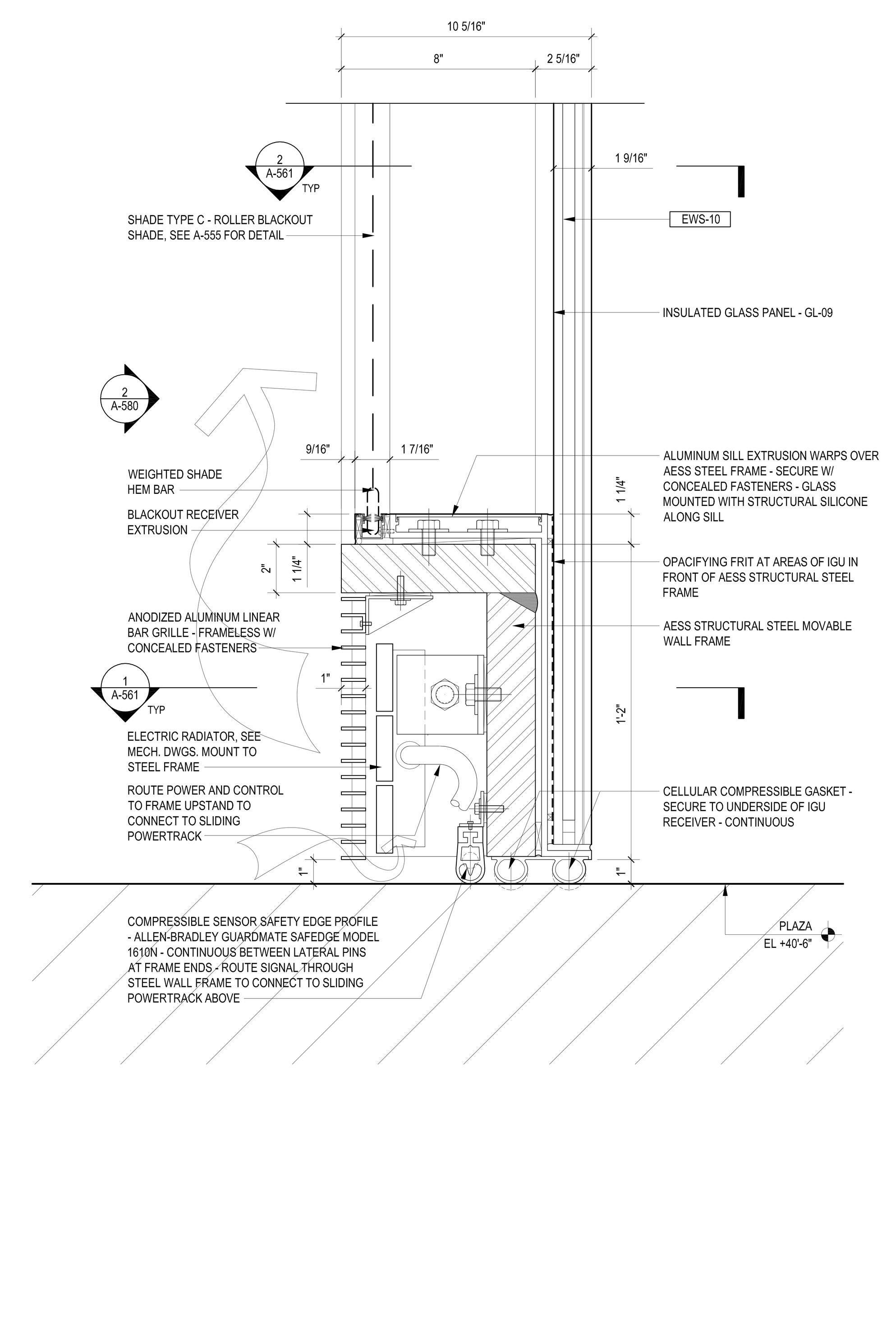
ELEVATION AT TOP OF MOVABLE WALL AT SUPPORT TRACK | 5 | 3" = 1'-0"



ELEVATION AT MOVABLE WALL FRAMING - STEEL ONLY FOR CLARITY | 6 | 1/4" = 1'-0"



SECTION DETAIL @ RESTRAINT PIN AT OPERABLE WALL PANEL | 7 | 3" = 1'-0"



SECTION DETAIL @ SILL AT OPERABLE WALL PANEL | 8 | 3" = 1'-0"

LEGEND

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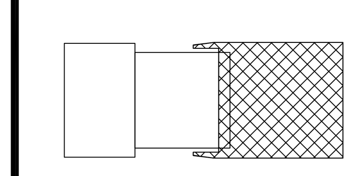

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STAMP

REGISTERED ARCHITECT RICARDO SCOFIDIO 008800 STATE OF NEW YORK

DRAWN BY Author
CHECKED BY Checker

PROJECT NUMBER
11017

TITLE
TITLEBLOCK
Shed - Movable Wall Details

SCALE: As indicated

0 8 16 24

DRAWING NO.
A-580.00

B-SCAN NO.

A-580.00

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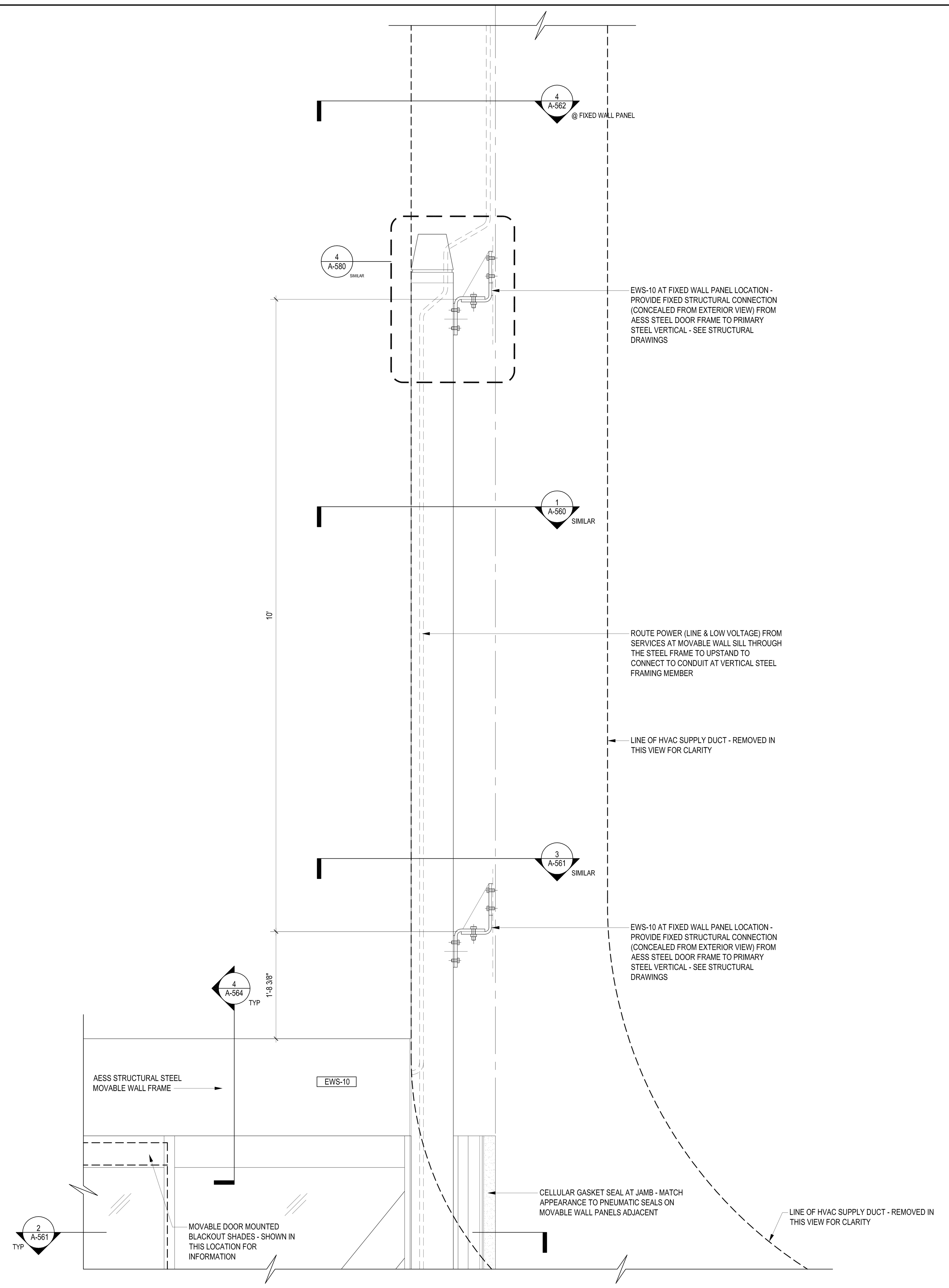
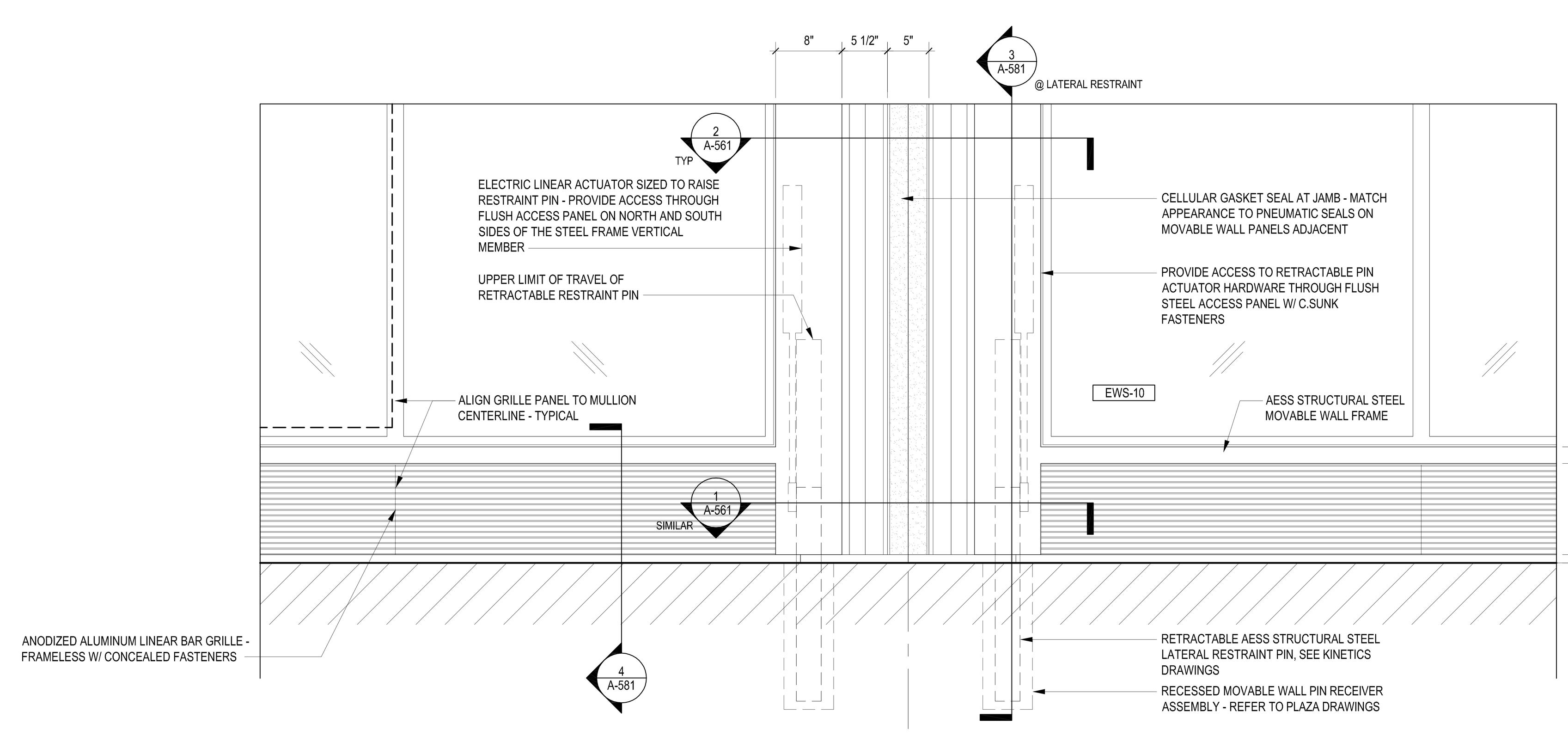
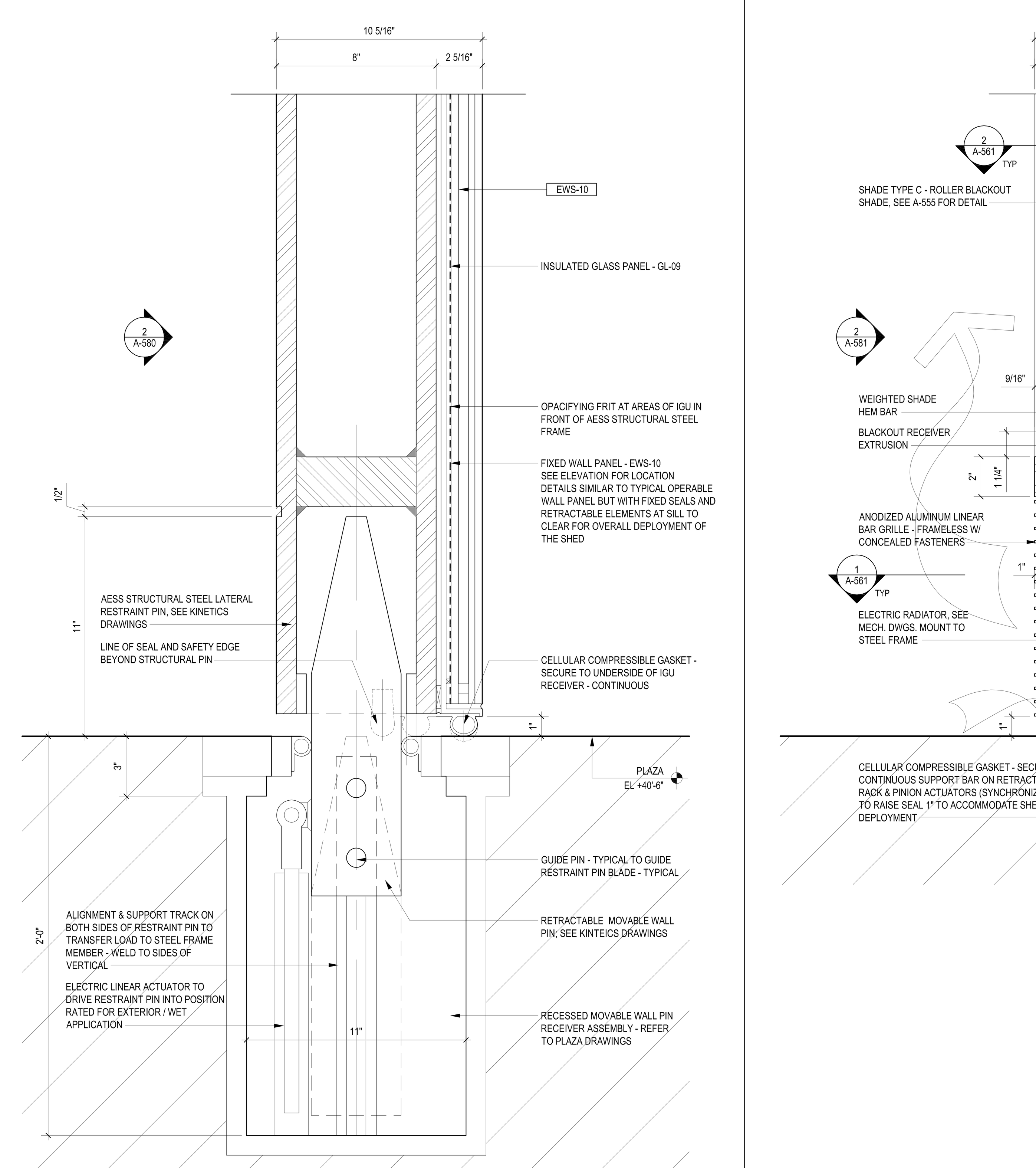


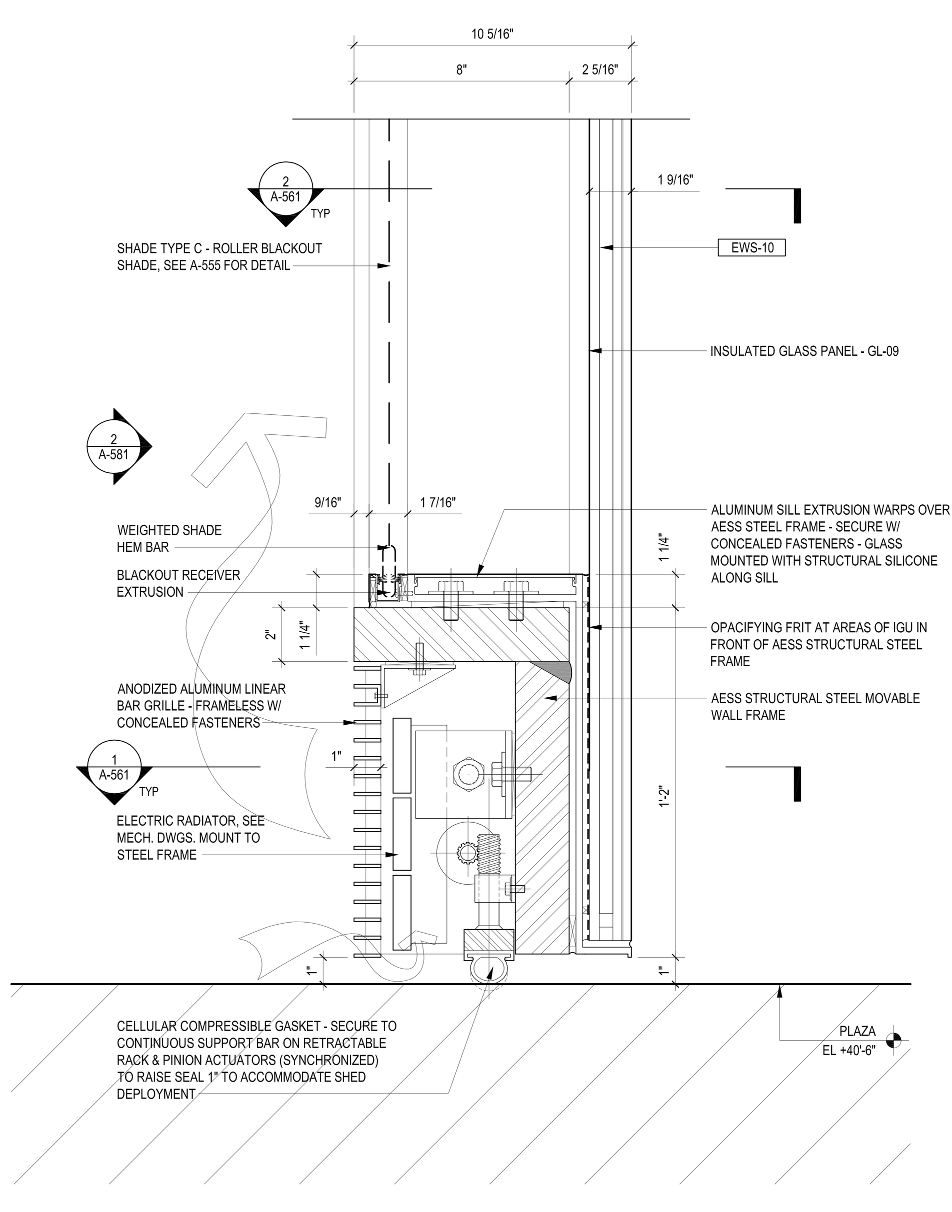
PARTIAL ELEVATION AT MOVABLE WALL HEAD — 1 — 1" = 1'-0"



PARTIAL ELEVATION AT MOVABLE WALL SILL FROM INTERIOR — 2 — 1" = 1'-0"



SECTION DETAIL @ RESTRAINT PIN AT FIXED WALL PANEL — 3 — 3" = 1'-0"



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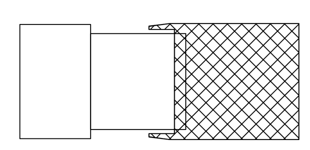

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10	4	100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014
2		50% CONSTRUCTION DOCUMENTS	08.15.2014
1		ADV. PROCUREMENT BID SET	06.16.2014

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REGISTERED ARCHITECT RICARDO SCOFIDIO 008800 STATE OF NEW YORK

DRAWN BY Author
CHECKED BY Checker

PROJECT NUMBER 11017

TITLE
TITLEBLOCK
Shed - Fixed Wall Details

SCALE: As indicated
0 8 16 24

DRAWING NO.
A-581.00

B-SCAN NO.
A-581.00

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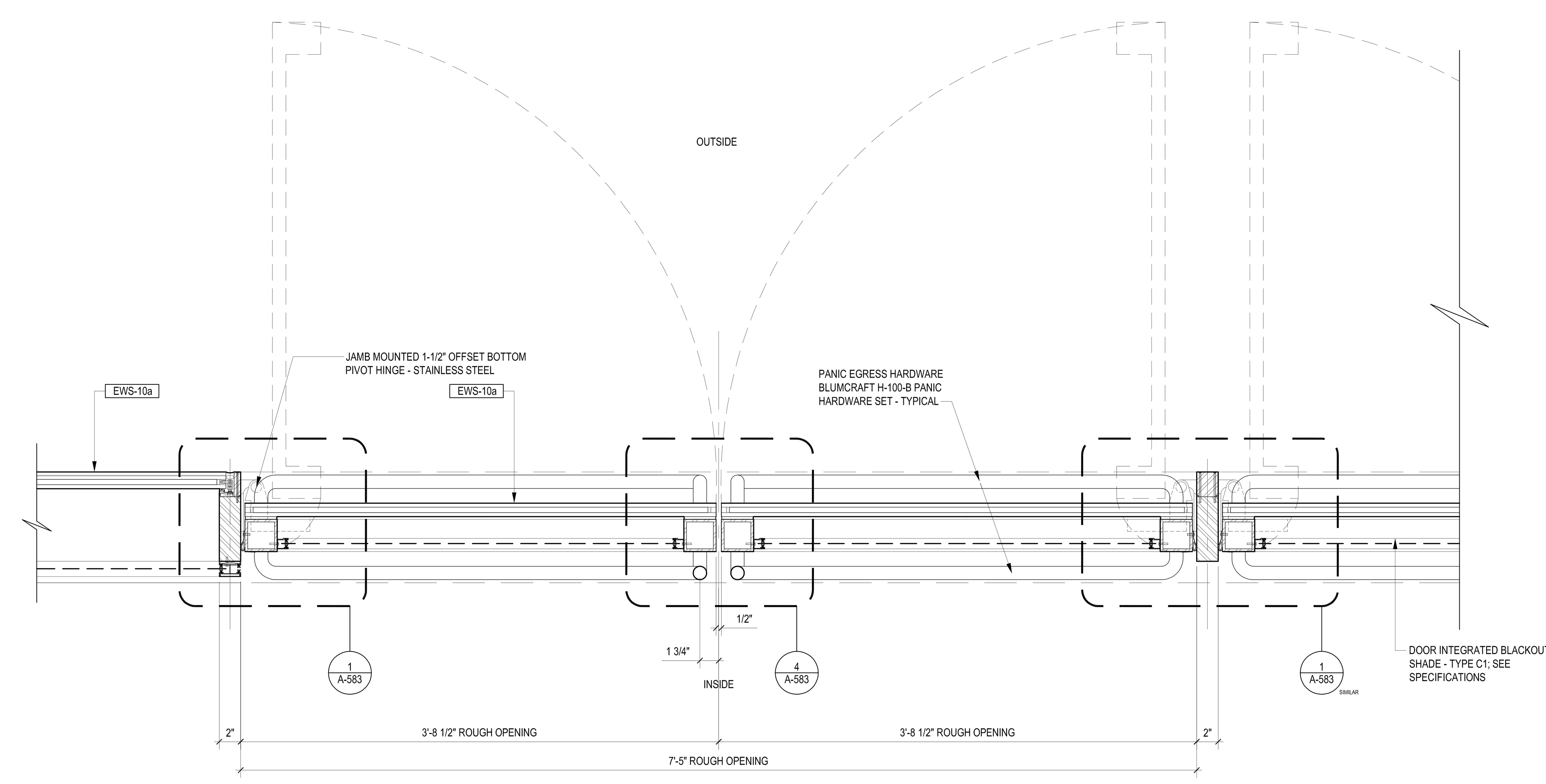
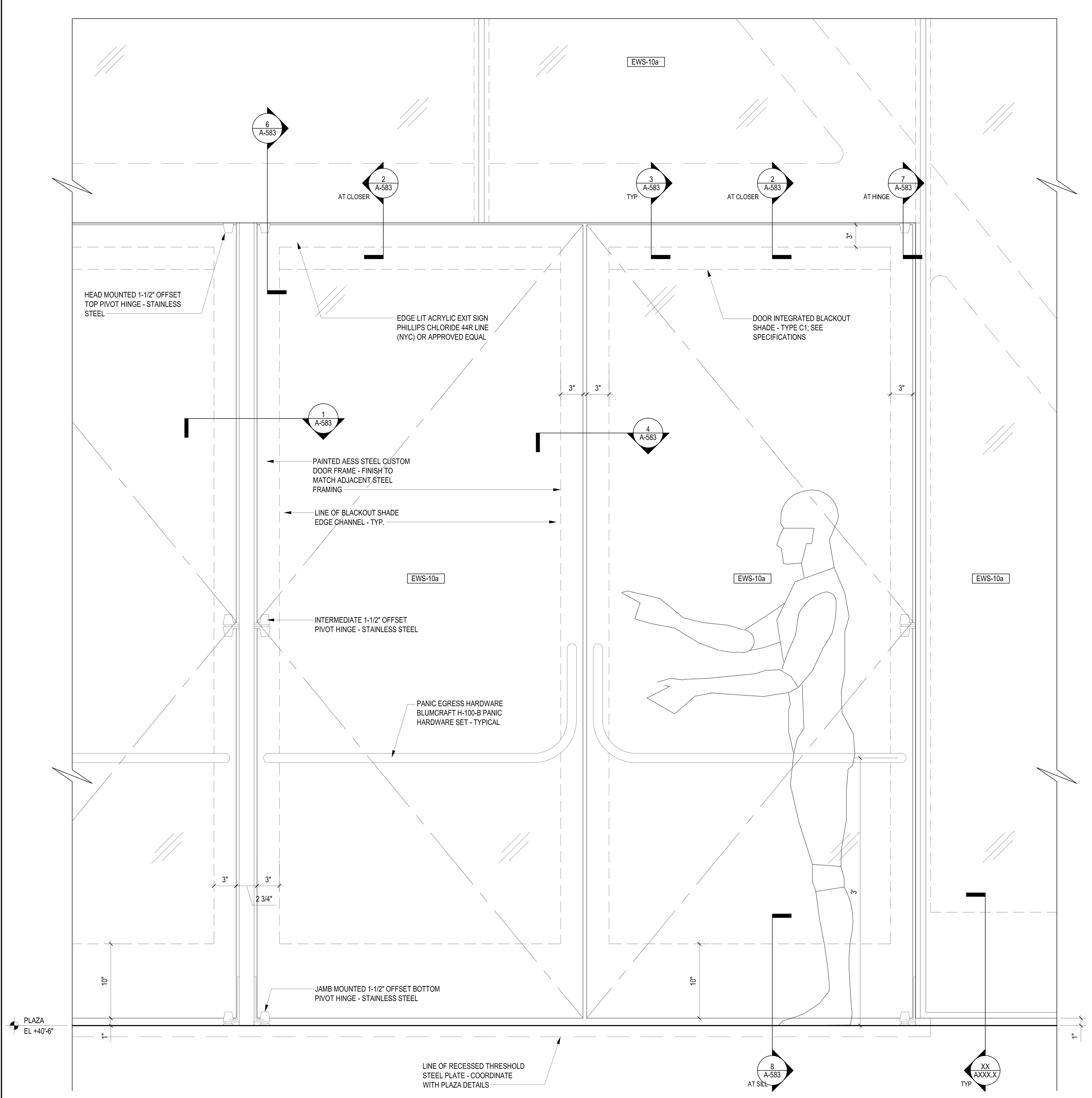
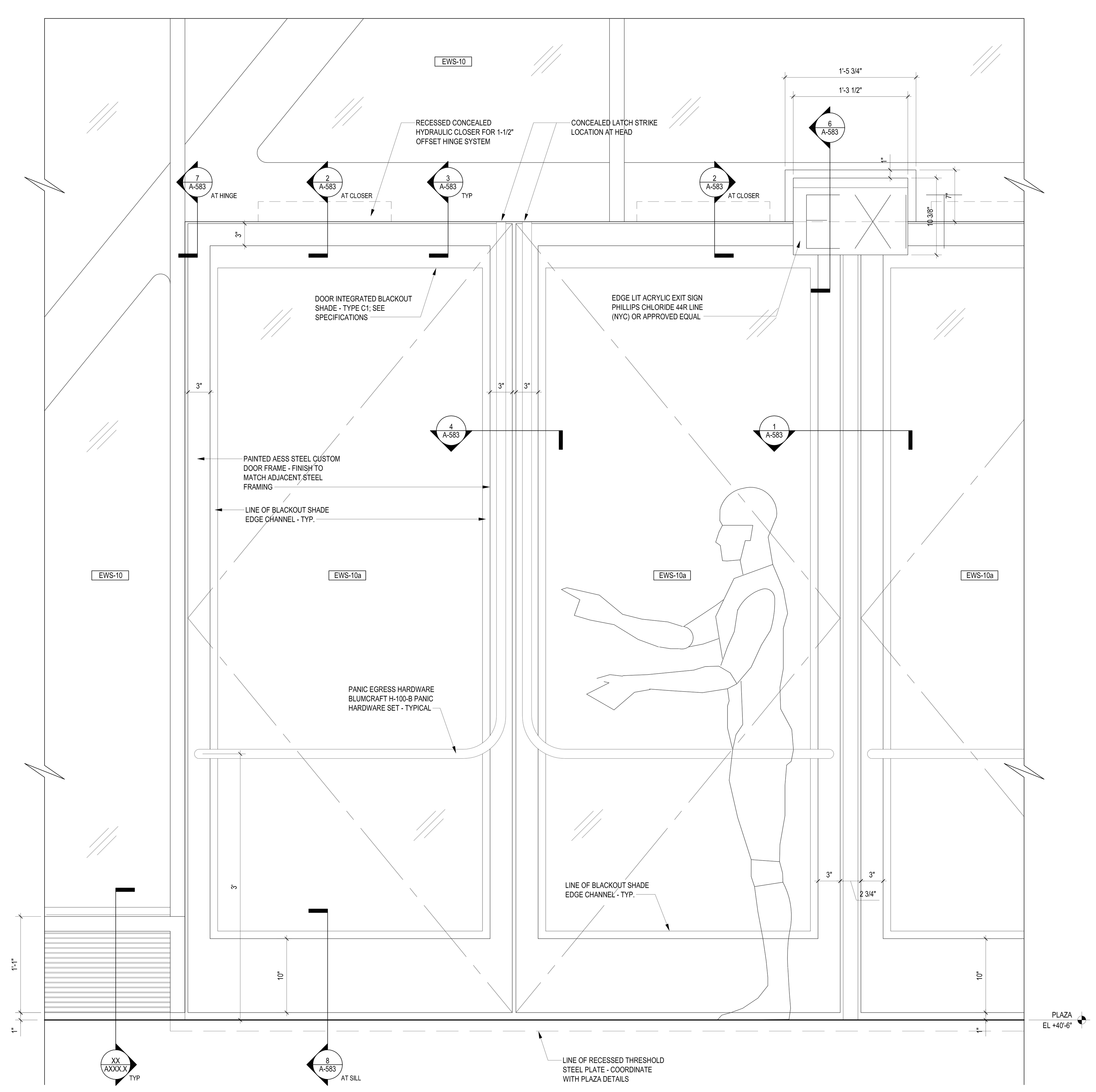
ES329915887 Scan Code



PARTIAL ELEVATIONS AT ETFE INTERSECTION AT TYPICAL NODE — 2 — 3" = 1'-0"



PARTIAL ELEVATION AT EGRESS DOORS FROM EXTERIOR — 1 — 1-1/2" = 1'-0"



PARTIAL ELEVATION AT EGRESS DOORS FROM INTERIOR — 3 — 1-1/2" = 1'-0"

LEGEND

GENERAL NOTES

1. For Shed components this drawing set is to be considered integral with the provided 3D models and may not be considered independently from the models. The contractor is to base their bid upon the information provided in both the drawings and 3D models. In matters of form and geometry the three dimensional model takes precedence in the instance of a discrepancy between drawing and model. In all other matters the contractor shall seek the opinion of the Architect and Structural Engineer to resolve the discrepancy.

2. Geometry, dimensions and surface contouring, blending and intersection of sections illustrated in the structural drawings are provided for reference and generation of the structural arrangement and details only. The 3D model issued by the Architect defines the exterior surface and shall be adhered to for the final geometry. It is the responsibility of the Contractor to identify any discrepancies or ambiguities for discussion, resolution and direction from the Architect and Structural Engineer.

3. Typical N/S wall node:
The geometry created by the intersecting main verticals and diagonals shall be in accordance with the 3D model and follow, as a minimum, the quality exhibited in the approved mock-up. The general concept is that edges flow smoothly and continuously between the straight edge of a diagonal through a curve to the adjacent edge of the vertical and the interlying surfaces between these edges are blended and contoured to define a smooth, uninterrupted transition.

4. Typical Node Elsewhere:
The geometry created by the intersecting elements shall be in accordance with the 3D model. The level of quality is to be similar to the approved mock-up for the typical node. The general concept is that edges flow smoothly and continuously between the edge of one element to the corresponding edge of the adjacent element and the interlying surfaces between these edges are blended and contoured to define a smooth, uninterrupted transition.

5. This drawing should be considered integral with the written Specifications issued along with the drawings and 3D models. Refer to the Advanced procurement Bid Issue Specifications Table of Contents.

6. Structural steel cladding enclosing selected areas of the Shed (referred to as EWS-1c) shall be in the scope of the steel contractor for continuity with adjacent primary steel members. Criteria for tolerance and flatness to match that of the structural steel (see structural drawings & specifications). Plate configuration, including thickness, internal stiffeners and diaphragms, to be proposed by the fabricator and subject to agreement with the Architect and Engineer to provide an enclosure which satisfies the aesthetic and structural requirements. Refer to 3D model for extent of EWS-1c.

7.

Damian Titus
Buildings APPROVED Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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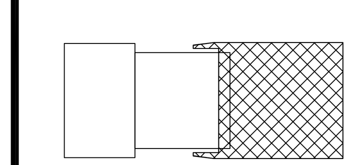
KEY PLAN



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REGISTERED ARCHITECT RICARDO SCOFIDIO 008800 STATE OF NEW YORK

DRAWN BY Author **CHECKED BY** Checker

PROJECT NUMBER 11017

TITLE
TITLEBLOCK

Shed - Egress Door Details
SCALE: 1-1/2" = 1'-0"

0 8 16 24

DRAWING NO. A-582.00

B-SCAN NO.
A-582.00

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DEPT OF BLDGS 421302297 Job Number
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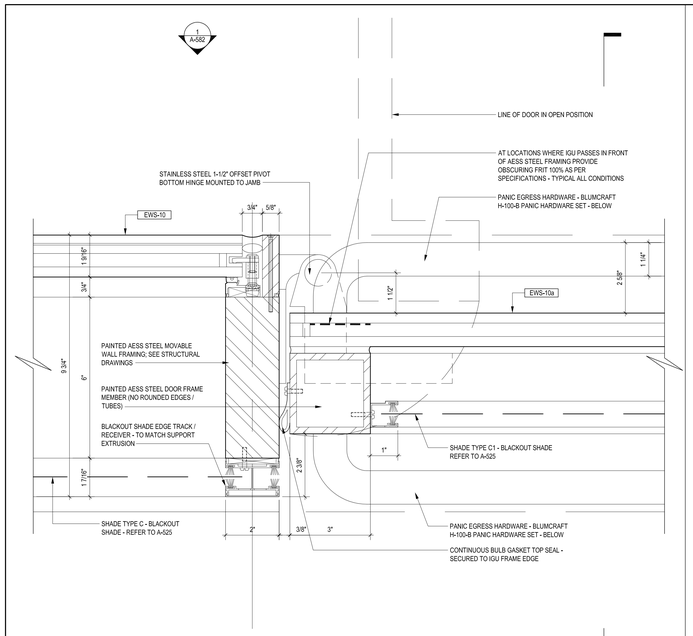
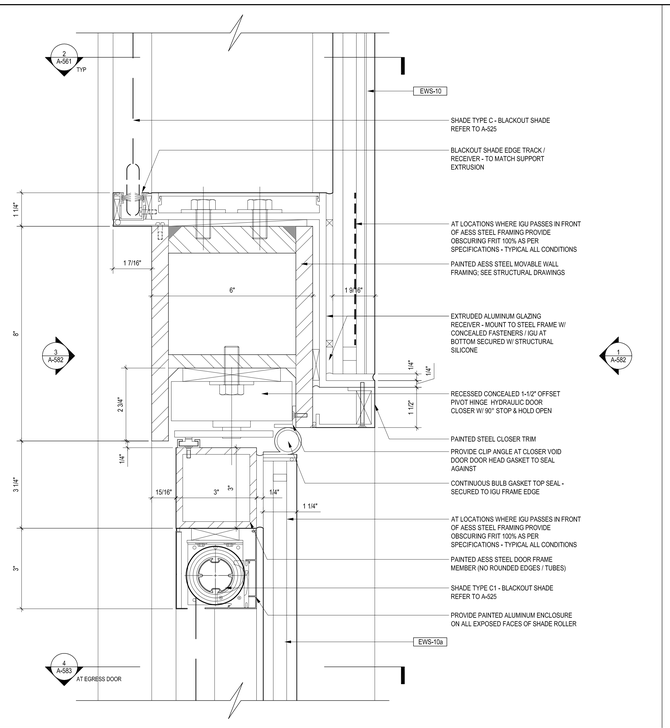
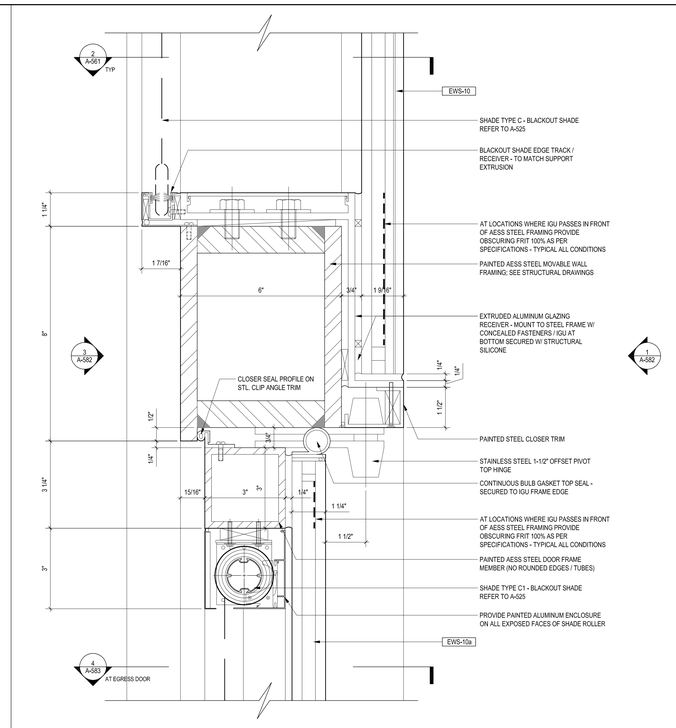


PLAN @ DOOR JAMB | 1 | 6" = 1'-0"



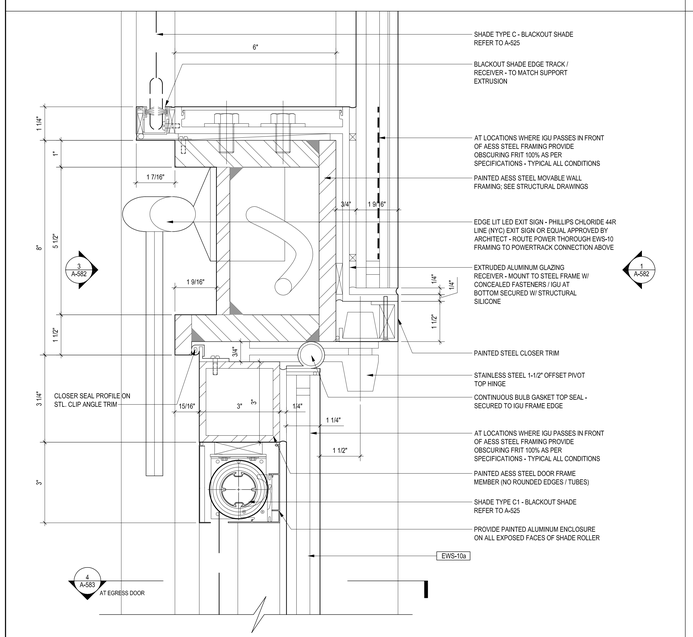
SECTION @ EGRESS DOOR HEAD AT CONCEALED CLOSER | 2 | 6" = 1'-0"



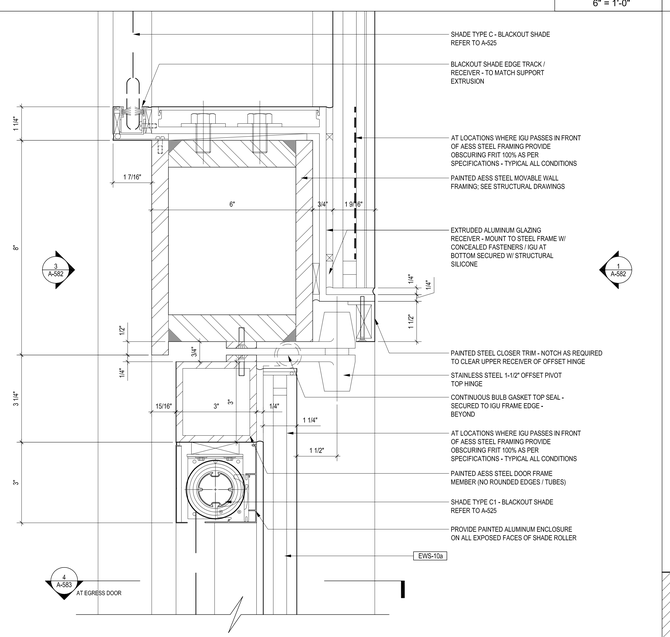
SECTION @ EGRESS DOOR HEAD | 3 | 6" = 1'-0"

PLAN @ MEETING STILE | 4 | 6" = 1'-0"

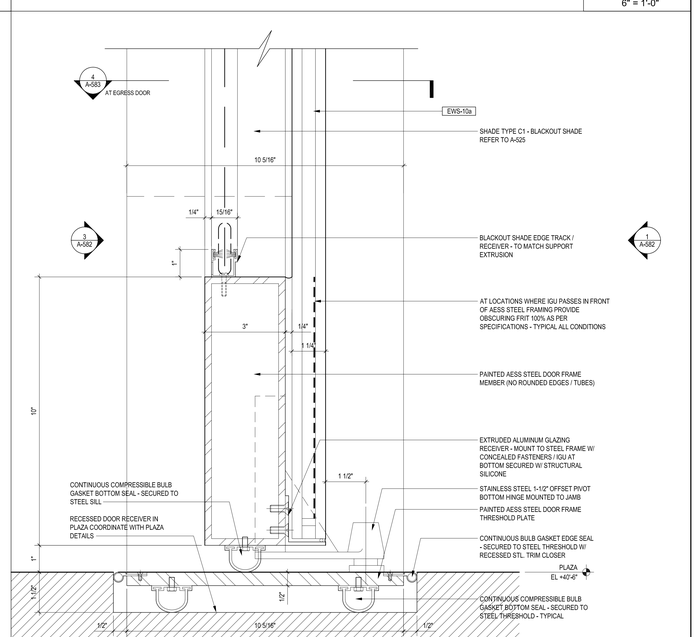
SECTION @ EGRESS DOOR INTERMEDIATE HINGE | 5 | 6" = 1'-0"



SECTION @ EGRESS DOOR HEAD AT EXIT SIGN RECESS | 6 | 6" = 1'-0"



SECTION @ EGRESS DOOR HEAD AT OFFSET HINGE | 7 | 6" = 1'-0"



SECTION @ EGRESS DOOR SILL | 8 | 6" = 1'-0"

LEGEND

GENERAL NOTES

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2. Geometry, dimensions and surface contouring, blending and intersection of sections illustrated in the structural drawings are provided for reference and generation of the structural arrangement and details only. The 3D model issued by the Architect defines the exterior surface and shall be adhered to for the final geometry. It is the responsibility of the Contractor to identify any discrepancies or ambiguities for discussion, resolution and direction from the Architect and Structural Engineer.

3. Typical N/S wall node:
The geometry created by the intersecting main verticals and diagonals shall be in accordance with the 3D model and follow, as a minimum, the quality exhibited in the approved mock-up. The general concept is that edges flow smoothly and continuously between the straight edge of a diagonal through a curve to the adjacent edge of the vertical and the interlying surfaces between these edges are blended and contoured to define a smooth, uninterrupted transition.

4. Typical Node Elsewhere:
The geometry created by the intersecting elements shall be in accordance with the 3D model. The level of quality is to be similar to the approved mock-up for the typical node. The general concept is that edges flow smoothly and continuously between the edge of one element to the corresponding edge of the adjacent element and the interlying surfaces between these edges are blended and contoured to define a smooth, uninterrupted transition.

5. This drawing should be considered integral with the written Specifications issued along with the drawings and 3D models. Refer to the Advanced procurement Bid Issue Specifications Table of Contents.

6. Structural steel cladding enclosing selected areas of the Shed (referred to as EWS-1c) shall be in the scope of the steel contractor for continuity with adjacent primary steel members. Criteria for tolerance and flatness to match that of the structural steel (see structural drawings & specifications). Plate configuration, including thickness, internal stiffeners and diaphragms, to be proposed by the fabricator and subject to agreement with the Architect and Engineer to provide an enclosure which satisfies the aesthetic and structural requirements. Refer to 3D model for extent of EWS-1c.

7. Visually exposed HVAC supply and return ducts in the Shed, shown herein, are to be in the scope of the steel contractor to ensure continuity of appearance with primary steel. Criteria for tolerance and flatness to match that of the structural steel (see structural drawings & specifications). Plate configuration, including thickness, internal stiffeners and diaphragms, to be proposed by the fabricator and subject to agreement with the Architect and Engineer to provide an enclosure which satisfies the aesthetic and structural requirements. This mechanical network carries its own self-weight and is supported from primary load-bearing elements. Internal stiffening may not create interference with adjacent Hub requirements of the duct. Refer to 3D model.

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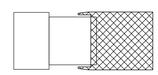
KEY PLAN



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REGISTERED ARCHITECT RICHARD SCOFIDIO 008600 STATE OF NEW YORK

DRAWN BY Author
CHECKED BY Checker

PROJECT NUMBER 1101/17

TITLE

TITLEBLOCK

Shed - Egress Door Details

SCALE: 6" = 1'-0"

0 8 16 24

DRAWING NO.

A-501.00

B-SCAN NO.

A-583.00

141 of 291

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APPROVED
With Comments
Make corrections noted
Resubmission Required

DEPT OF BLDGS 121102297 Job Number
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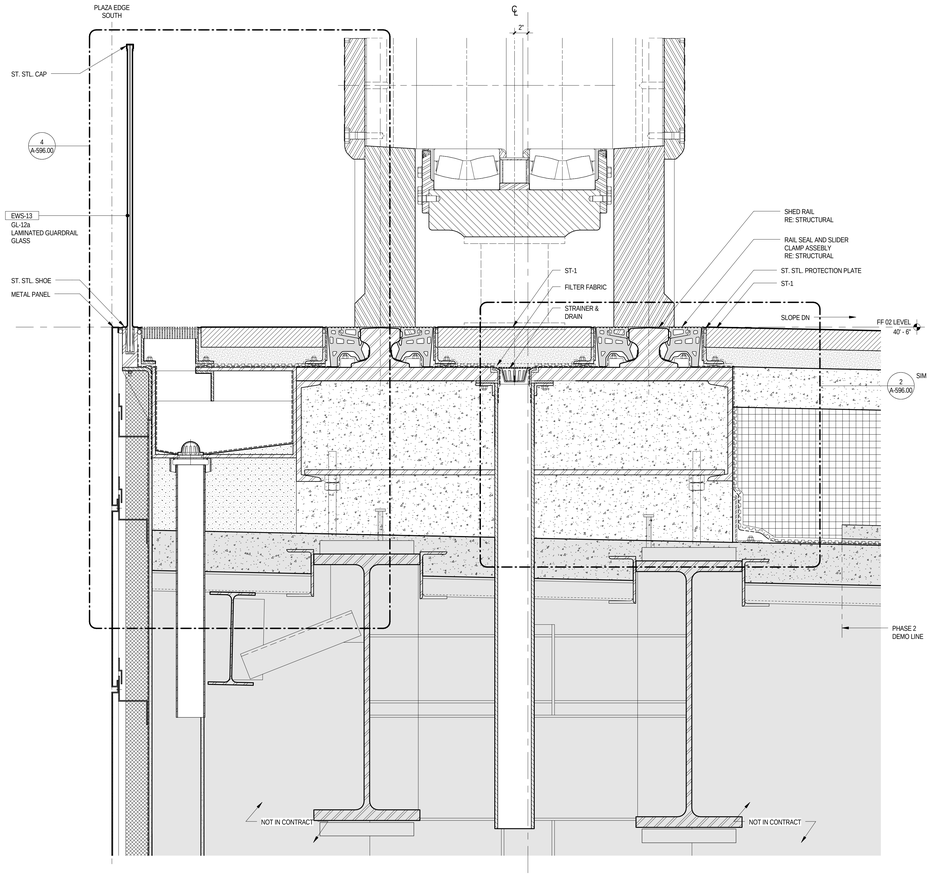

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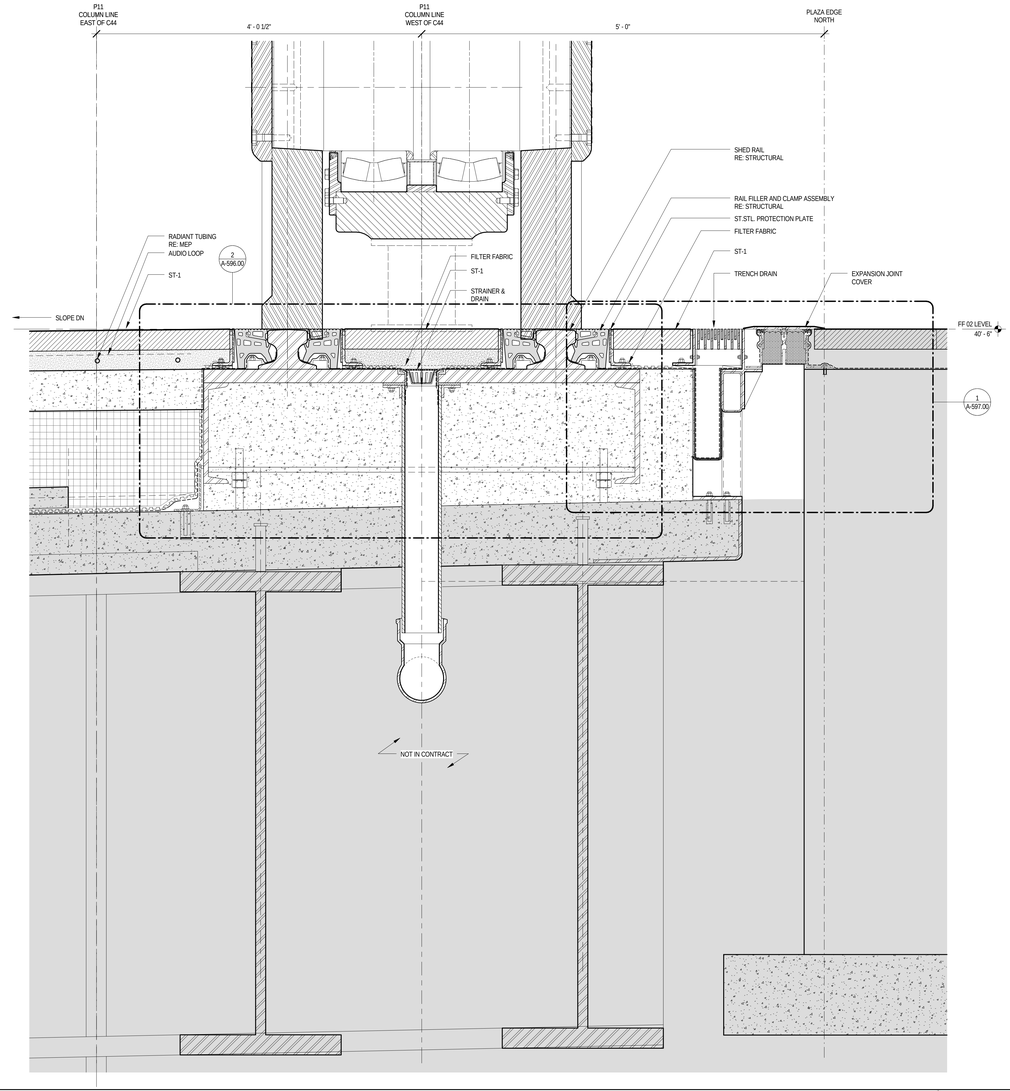
3

1 1/2" = 1'-0"



SECTION DETAIL - EXTERIOR - N/S - PLAZA EDGE NORTH - C44.2 - C.36

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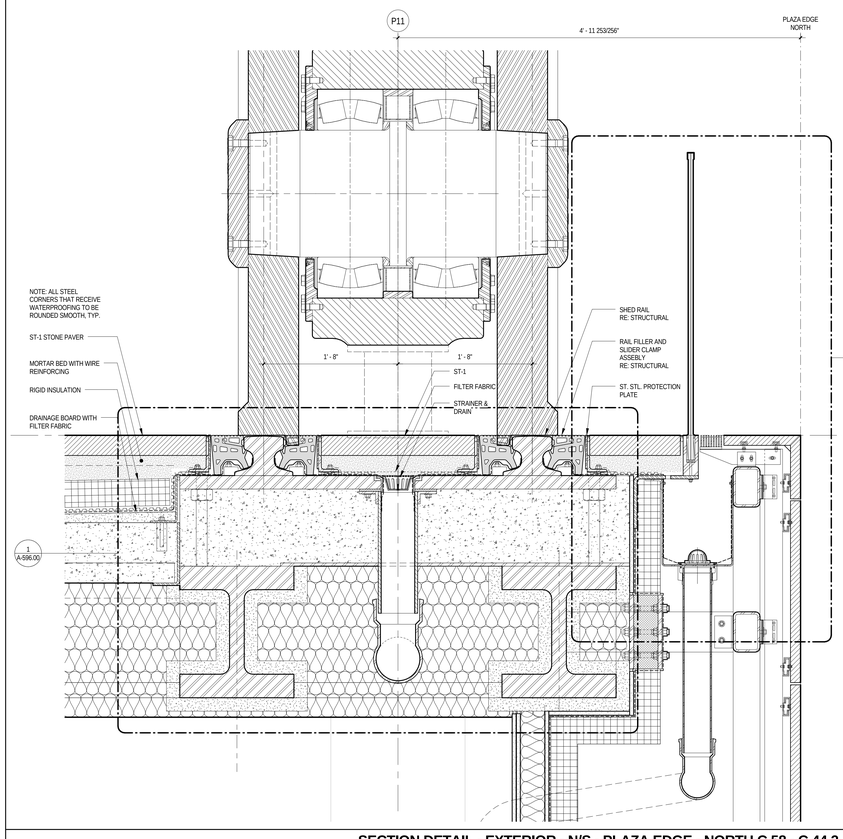
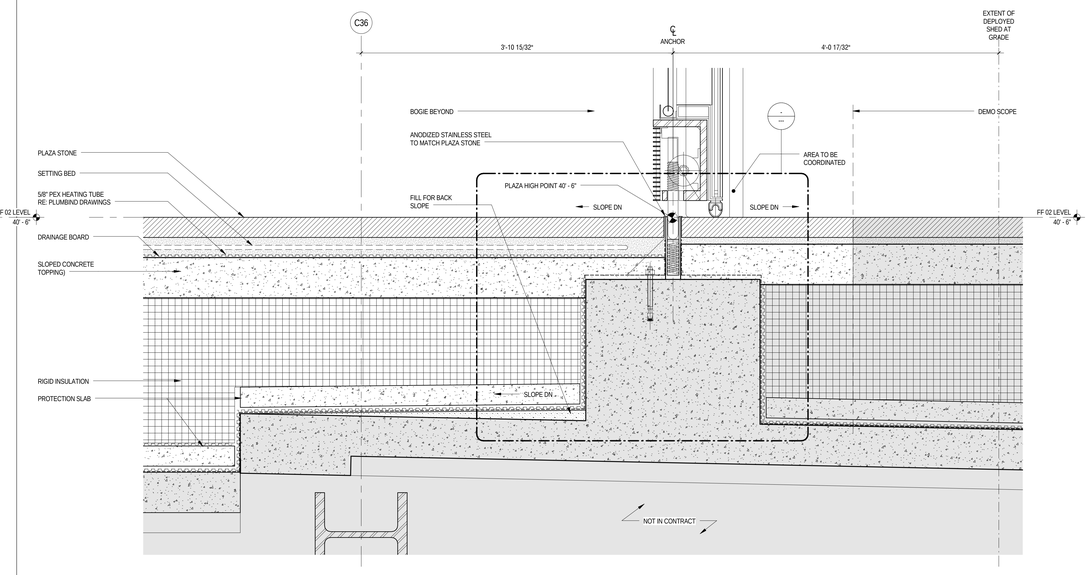


SECTION DETAIL - EXTERIOR - N/S - PLAZA EDGE - NORTH C.58 - C.44.2

4

1 1/2" = 1'-0"



SECTION DETAIL - EXTERIOR - PLAZA EAST BOUNDARY - RCL.S - P.11

1

1 1/2" = 1'-0"

LEGEND

GENERAL NOTES

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Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWN BY MM
CHECKED BY

PROJECT NUMBER
11017

TITLE
EXTERIOR DETAILS PLAZA - PERIMETER EDGES

DRAWING NO.

A-590.00

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DEPT OF BLDGS 121192397 Job Number
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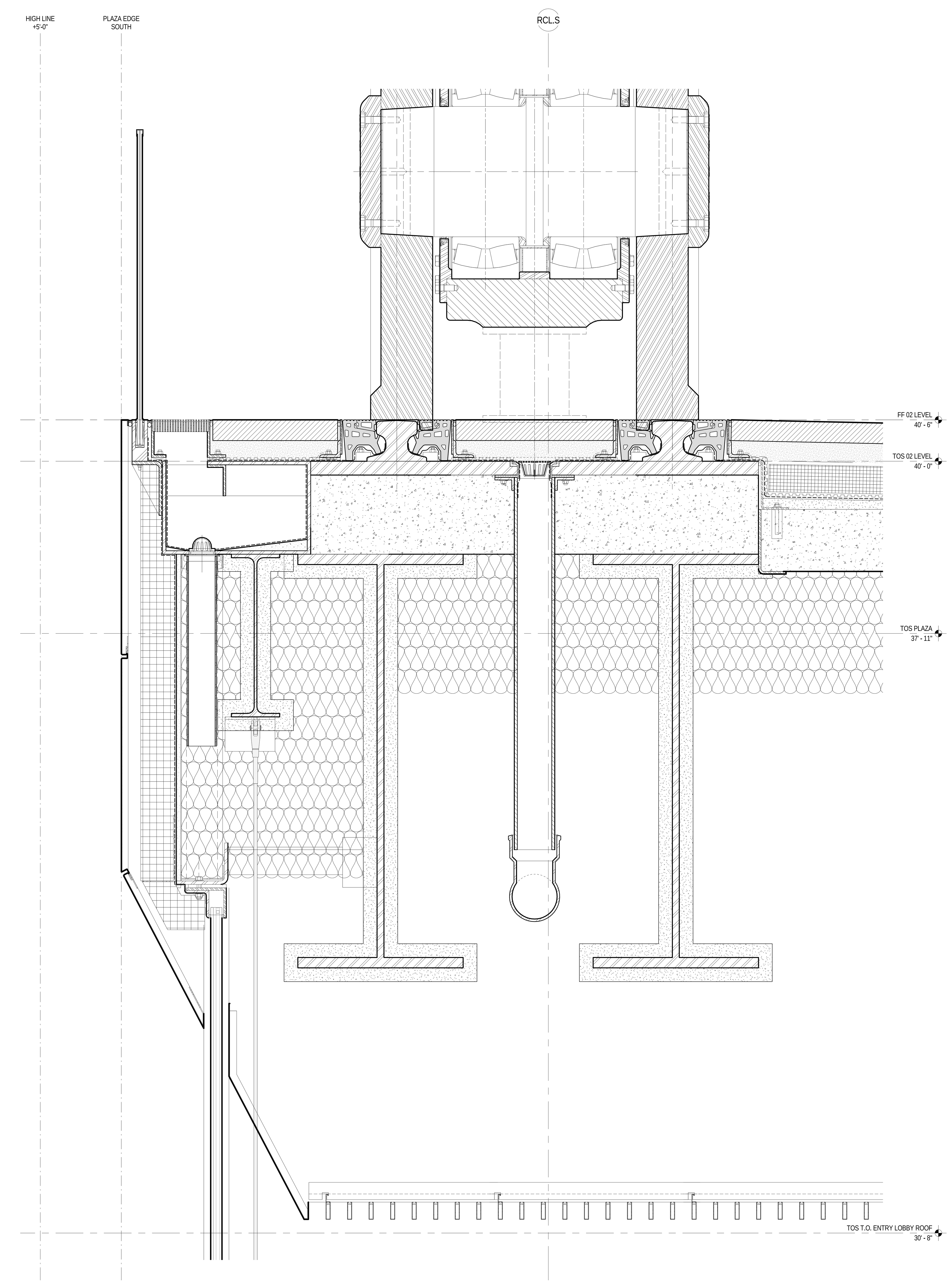

SECTION DETAIL - EXTERIOR - N/S - PLAZA EDGE SOUTH - C.58 - C.44.2

1

1 1/2" = 1'-0"

LEGEND

GENERAL NOTES

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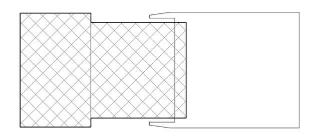
KEY PLAN



ISSUE		PRINTING	DATE
44	33	DOB AMENDMENT 5	04.08.2016
13		DOB AMENDMENT 1	08.03.2015
10	4	100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

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REGISTERED ARCHITECT
RICARDO SCOFIDIO
008800
STATE OF NEW YORK

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWN BY
Author

CHECKED BY
Checker

PROJECT NUMBER
11017

TITLE
EXTERIOR DETAILS PLAZA

SCALE: 1 1/2" = 1'-0"

0 8 16 24

DRAWING NO.
A-591.00

B-SCAN NO.
A-591.00

198 of 291

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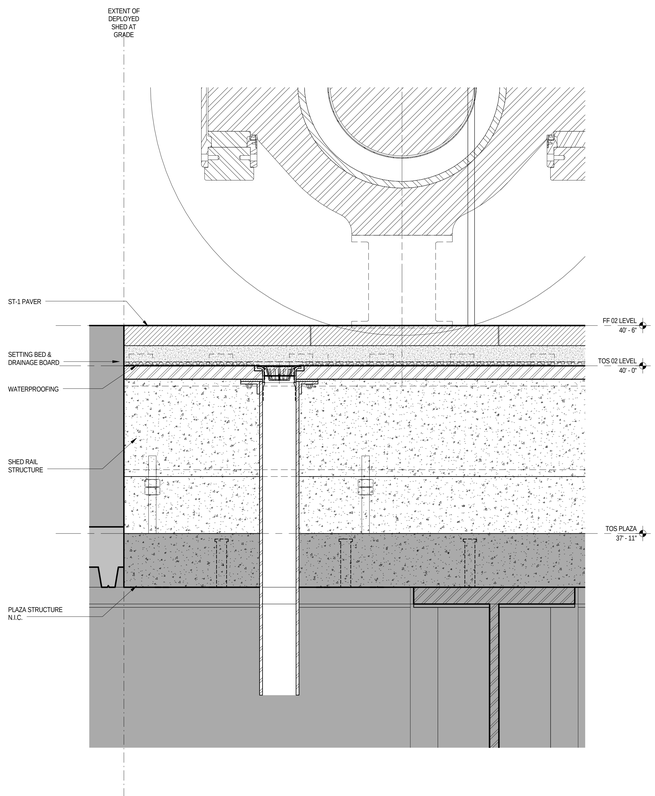
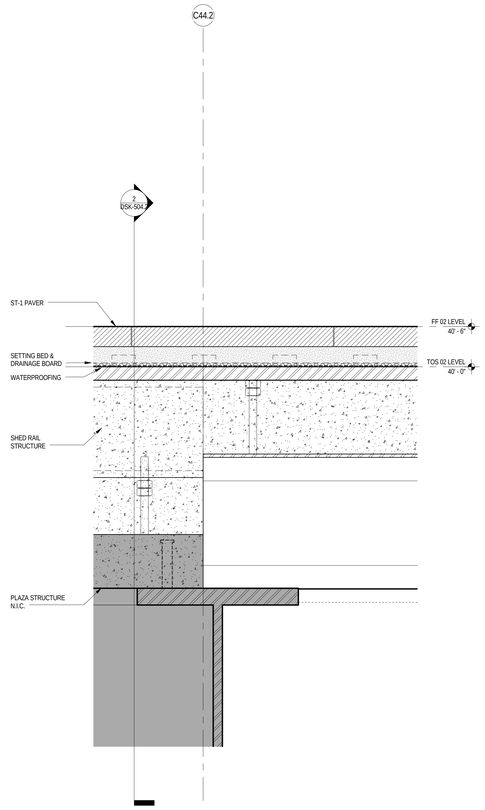
DEPT OF BLDGS 421302297 Job Number
E686468793S Scan Code



SECTION DETAIL - EXTERIOR - PLAZA - E/W - RAIL ASSEMBLY EAST END | 3 | 1 1/2" = 1'-0"



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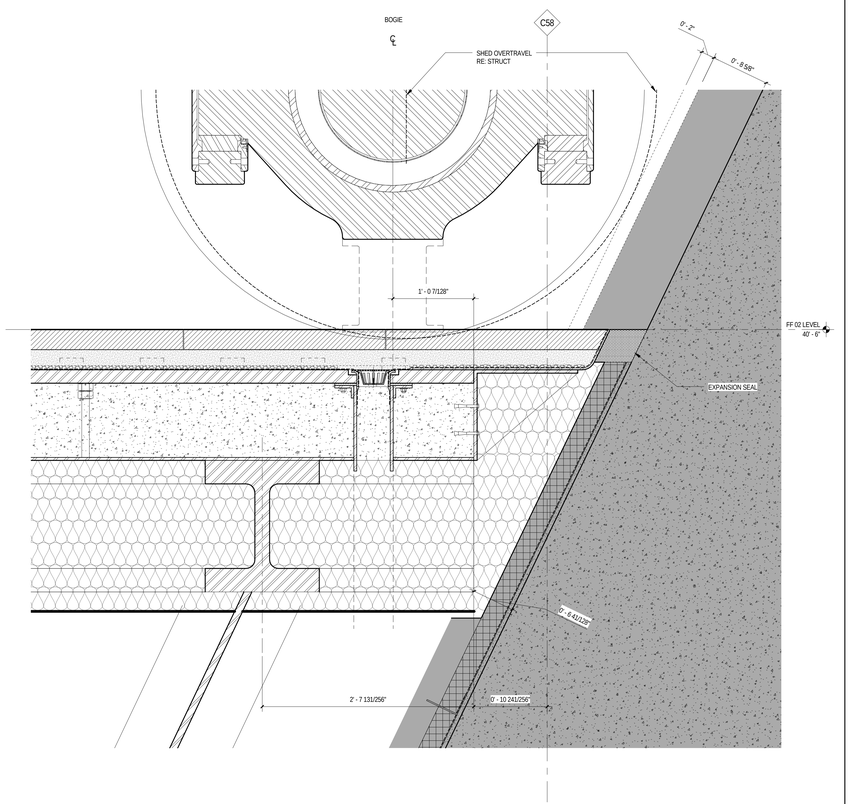

SECTION DETAIL - EXTERIOR - PLAZA - E/W - RAIL TERMINUS WEST - THROUGH BOGIE | 1 | 1 1/2" = 1'-0"

LEGEND

GENERAL NOTES

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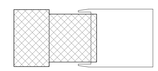
KEY PLAN



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REGISTERED ARCHITECT RICARDO SCOFIDIO 026620 STATE OF NEW YORK

DRAWN BY MM
CHECKED BY

PROJECT NUMBER 11017

TITLE

EXTERIOR DETAILS PLAZA - NORTH RAIL ASSEMBLY - E/W

SCALE: 1 1/2" = 1'-0"

0 8 16 24

DRAWING NO.

A-592.00

B-SCAN NO.

A-592.00

199 of 291

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AUTHORIZATION
Date: 07/15/2016
NYC Development Hub

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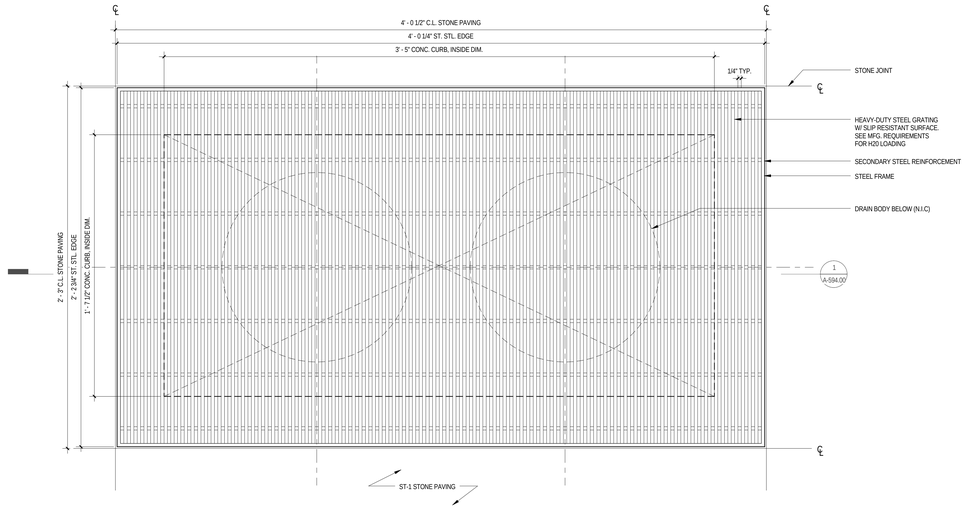
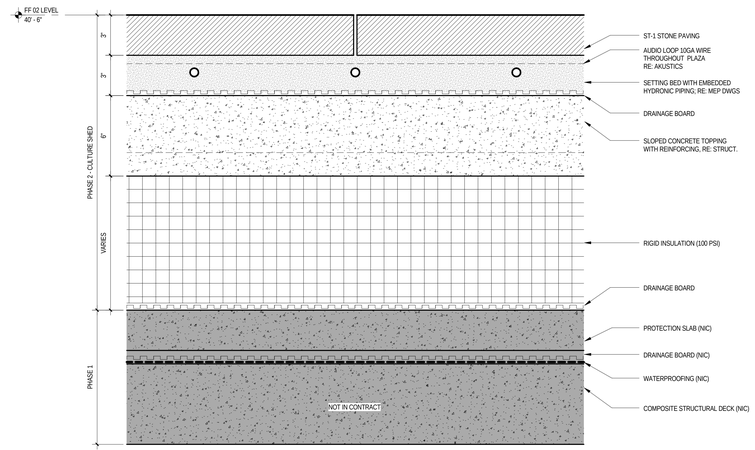
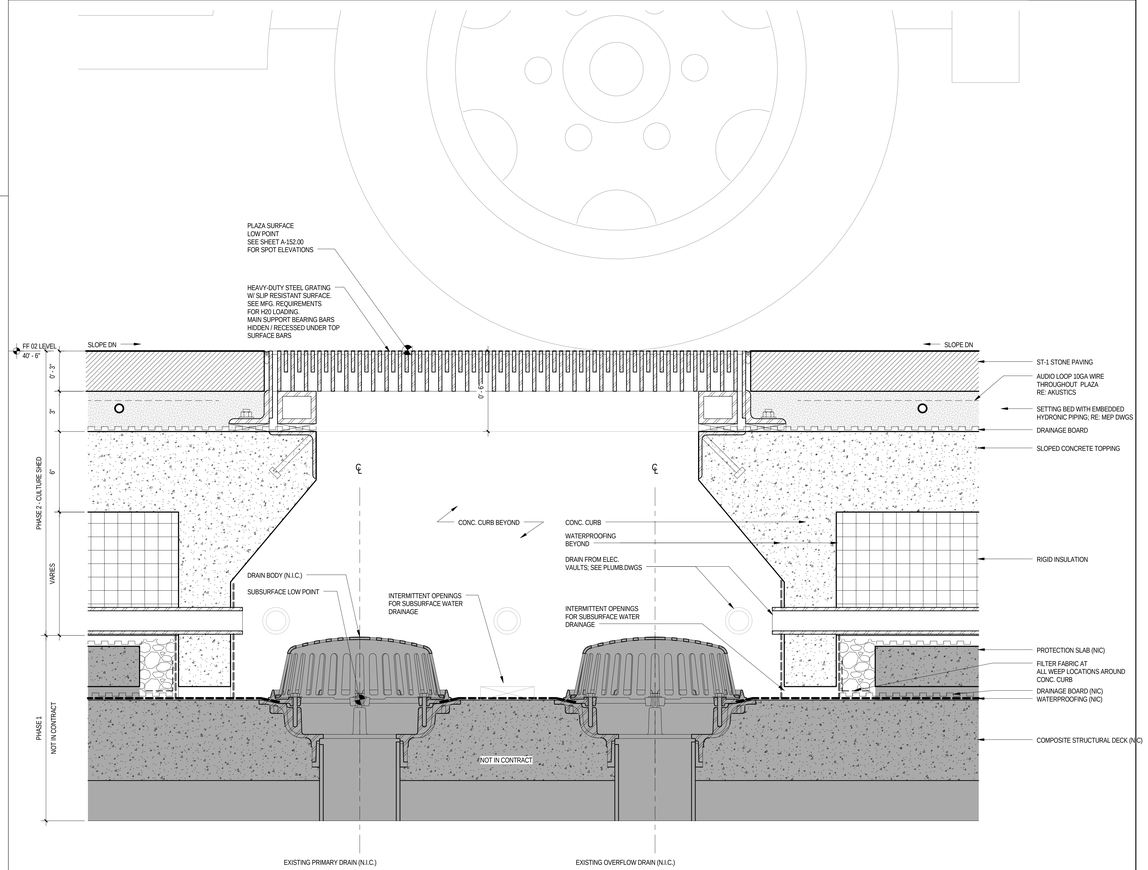
DEPT OF BLDGS 421301297 Job Number
ES1 483870319 Scan Code



Detail 14 | 2 | 3" = 1'-0"



SECTION DETAIL - EXTERIOR - PLAZA - PAVING | 3 | 3" = 1'-0"



SECTION DETAIL - EXTERIOR - PLAZA - TYP. AREA DRAIN | 1 | 3" = 1'-0"

LEGEND

GENERAL NOTES

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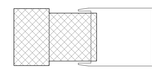
KEY PLAN



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STAMP

REGISTERED ARCHITECT RICHARD SCOFIDIO 098800 STATE OF NEW YORK

DRAWN BY MM
CHECKED BY Checker

PROJECT NUMBER
11017

TITLE

EXTERIOR DETAILS PLAZA - TYPICAL SECTIONS

SCALE: 3" = 1'-0"

0 8 16 24

DRAWING NO.
A-594.00

B-SCAN NO.

A-594.00

201 of 291

Damian Titus
Buildings
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AMENDED APPLICATION
Date: 07/15/2016
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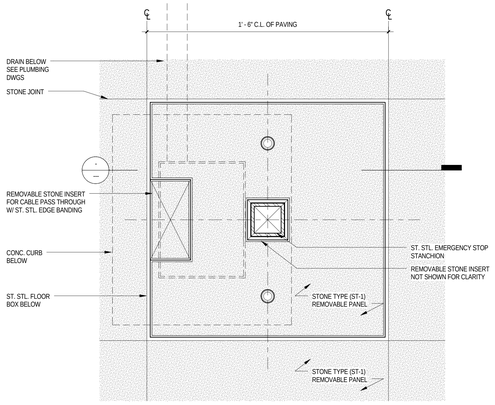
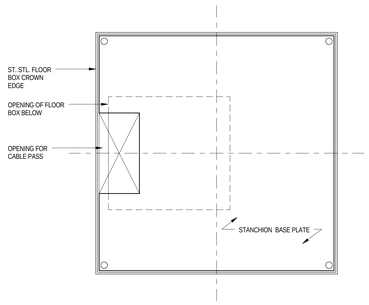


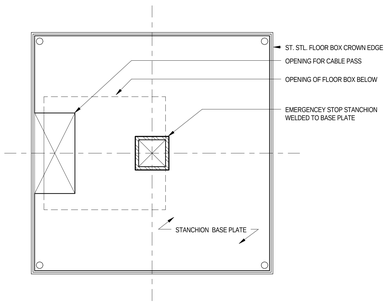
PLAN DETAIL - EXTERIOR - PLAZA - FLOOR BOX (E)

4

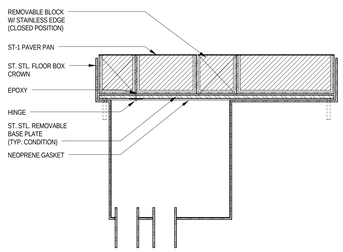
3" = 1'-0"



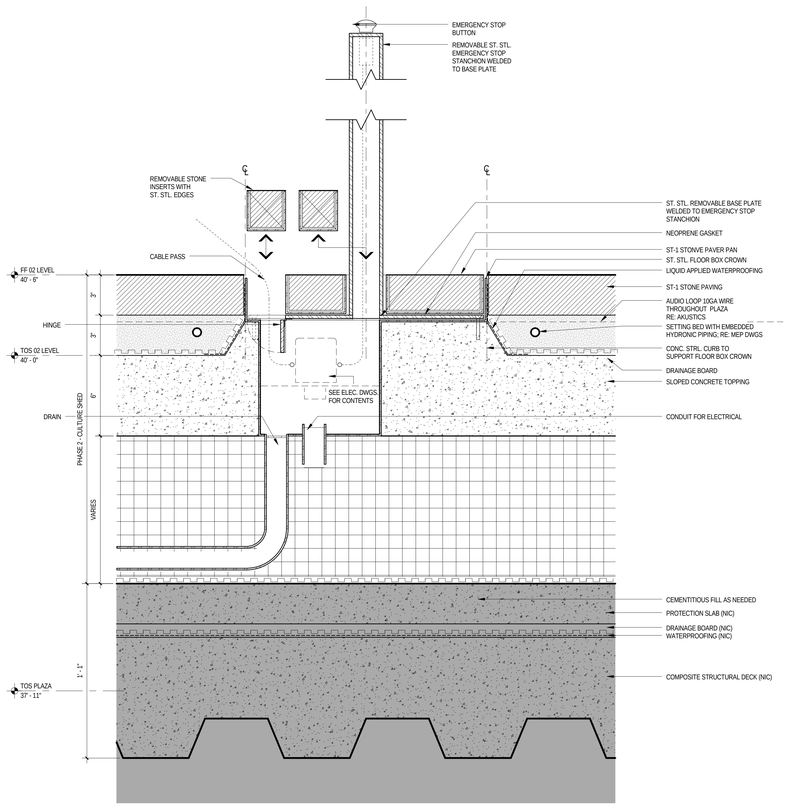
PLAN - BASE PLATE WITH CABLE PASS (NO STANCHION)



PLAN - BASE PLATE WITH CABLE PASS AND WELDED STANCHION



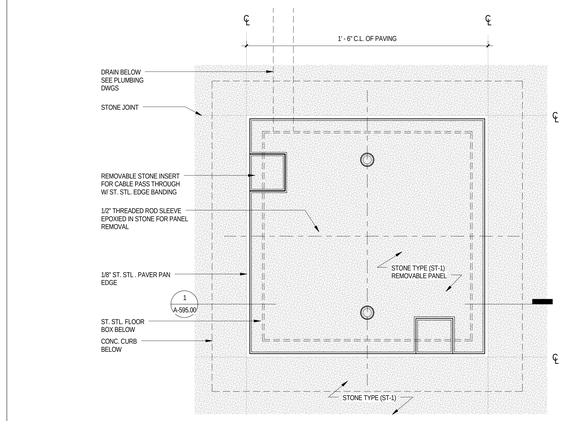
SECTION - (TYPICAL) STONE PAVER PAN W/ STAINLESS EDGE



SECTION DETAIL - EXTERIOR - PLAZA - FLOOR BOX (E)

3

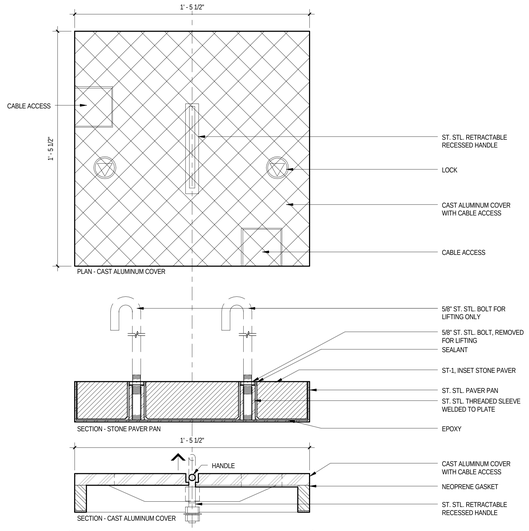
3" = 1'-0"

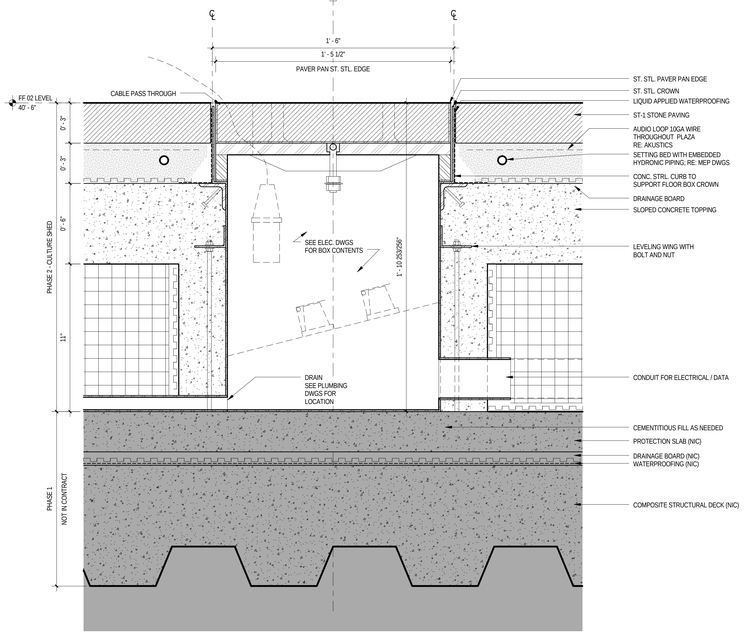


PLAN DETAIL - EXTERIOR - PLAZA - FLOOR BOX (A1, A2, B1, B2, C, D)

2

3" = 1'-0"





SECTION DETAIL - EXTERIOR - PLAZA - FLOOR BOX (A1, A2, B1, B2, C, D)

1

3" = 1'-0"

LEGEND

GENERAL NOTES

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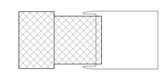

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2		50% CONSTRUCTION DOCUMENTS	08.15.2014

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REGISTERED ARCHITECT RICARDO SCOFIDIO 026800 STATE OF NEW YORK

DRAWN BY MM
CHECKED BY Checker

PROJECT NUMBER 11017

TITLE

EXTERIOR DETAILS PLAZA - FLOOR BOX SECTIONS

SCALE: 3" = 1'-0"

0 8 16 24

DRAWING NO.

A-595.00

B-SCAN NO.

A-595.00

202 of 291

Damian Titus
Buildings
APPROVED
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AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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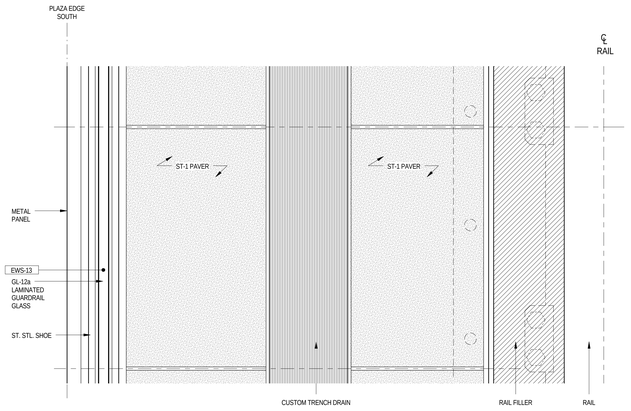
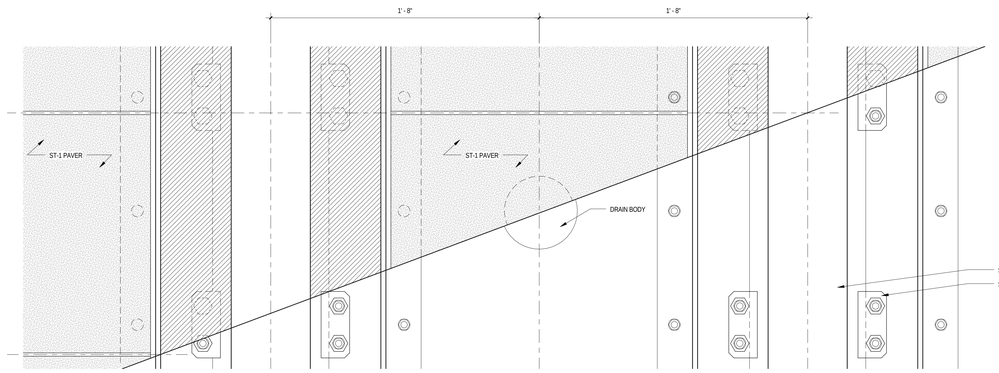


PLAN DETAIL - EXTERIOR - PLAZA EDGE SOUTH

5

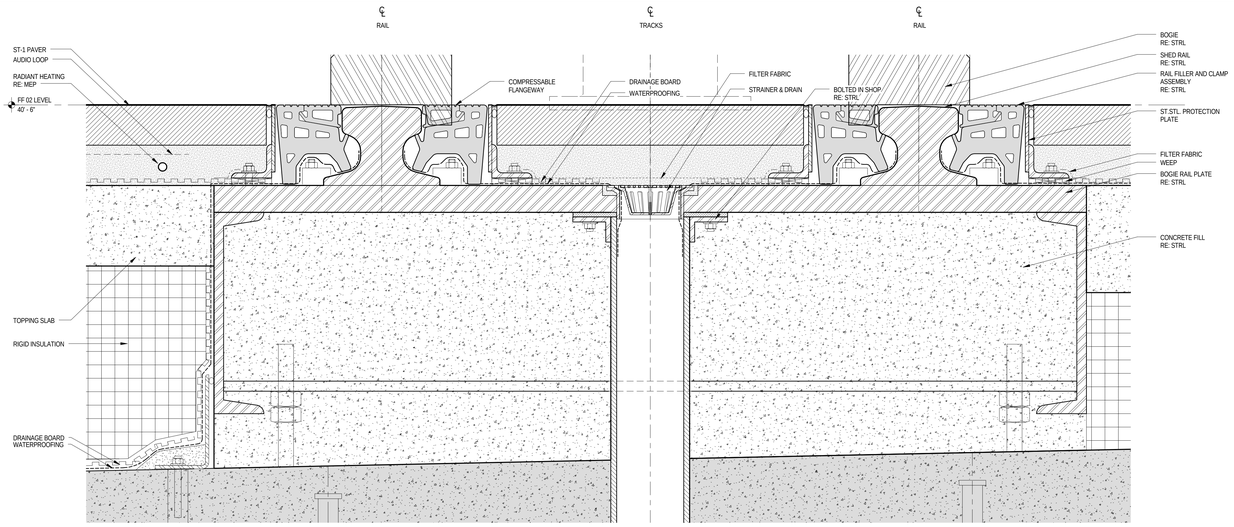
3" = 1'-0"

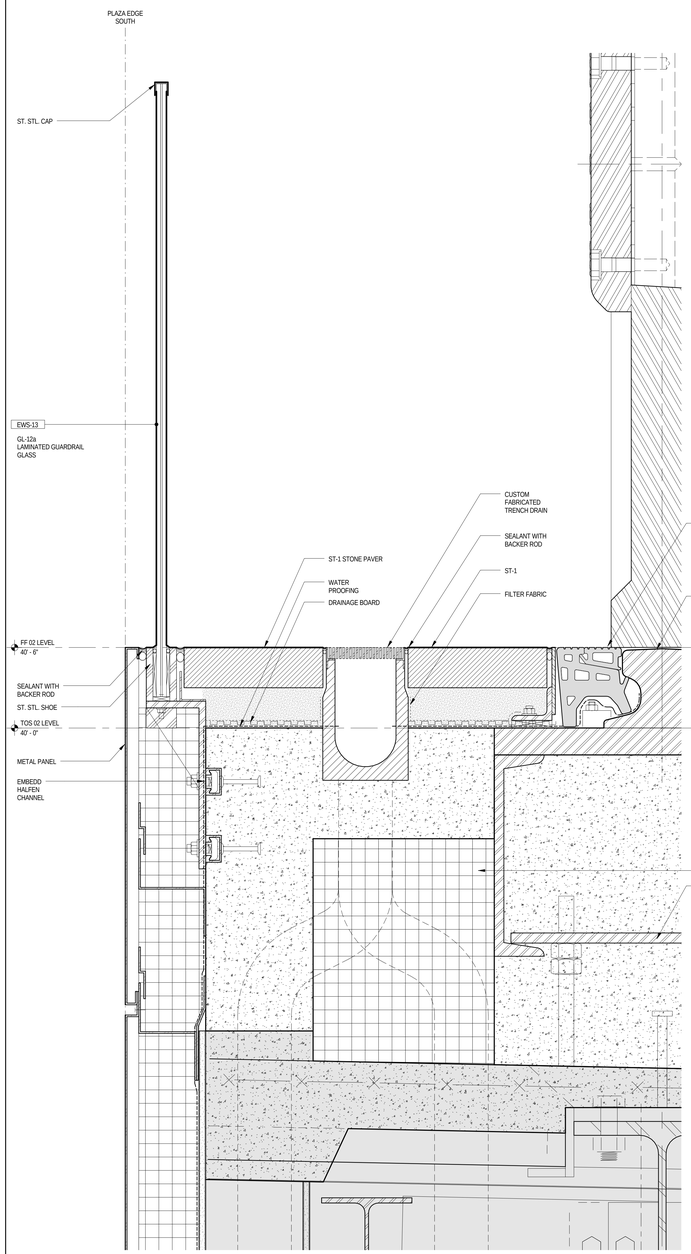


PLAN DETAIL - EXTERIOR - RAIL ASSEMBLY

3

3" = 1'-0"





SECTION DETAIL - EXTERIOR - PLAZA - SOUTH EDGE

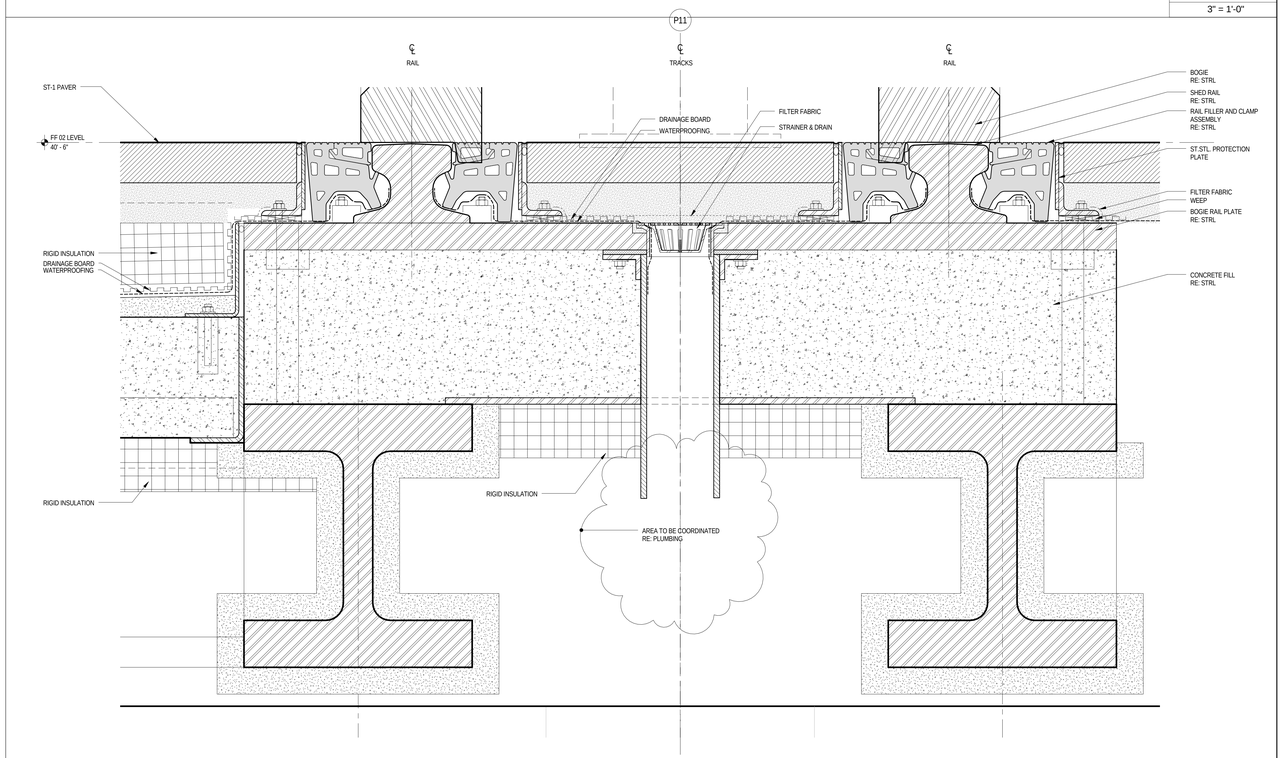
4

3" = 1'-0"

SECTION DETAIL - EXTERIOR - PLAZA - RAIL FILLER

2

3" = 1'-0"



SECTION DETAIL - EXTERIOR - PLAZA - RAIL FILLER - SHALLOW SECTION

1

3" = 1'-0"

LEGEND

GENERAL NOTES

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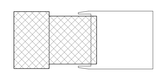
KEY PLAN



ISSUE

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44	33	DOB AMENDMENT 5	04.08.2016
13		DOB AMENDMENT 1	08.03.2015
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9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014
2		50% CONSTRUCTION DOCUMENTS	08.15.2014

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REGISTERED ARCHITECT RICARDO SCOFIDIO 026600 STATE OF NEW YORK

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CHECKED BY Checker

PROJECT NUMBER 11017

TITLE

EXTERIOR DETAILS PLAZA - ENLARGED DETAILS

SCALE: 3" = 1'-0"

0 8 16 24

DRAWING NO.

A-596.00

B-SCAN NO.

A-596.00

203 of 291

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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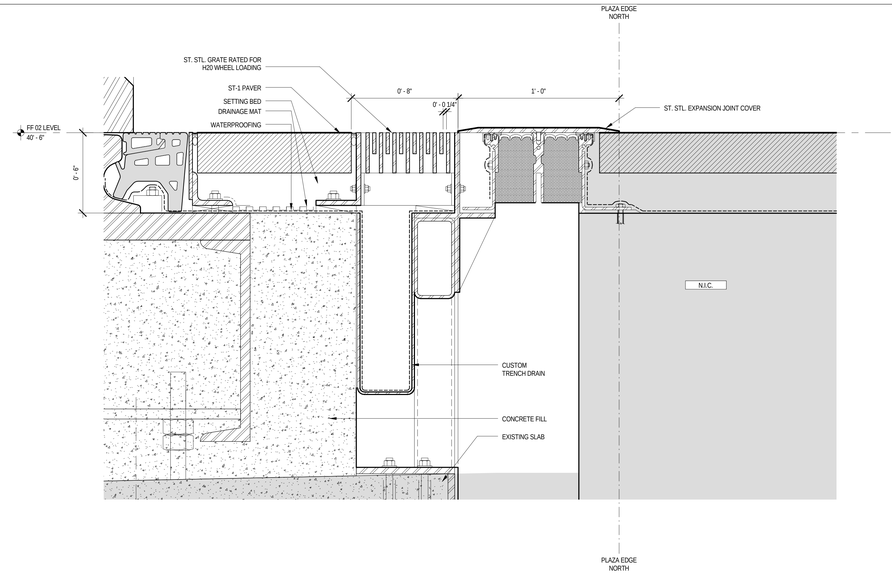
DEPT OF BLDGS 421102297 Job Number
E302305805N Scan Code

LEGEND

GENERAL NOTES



SECTION DETAIL - EXTERIOR - PLAZA - EXPANSION JOINT 1

3" = 1'-0"

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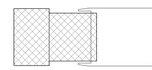

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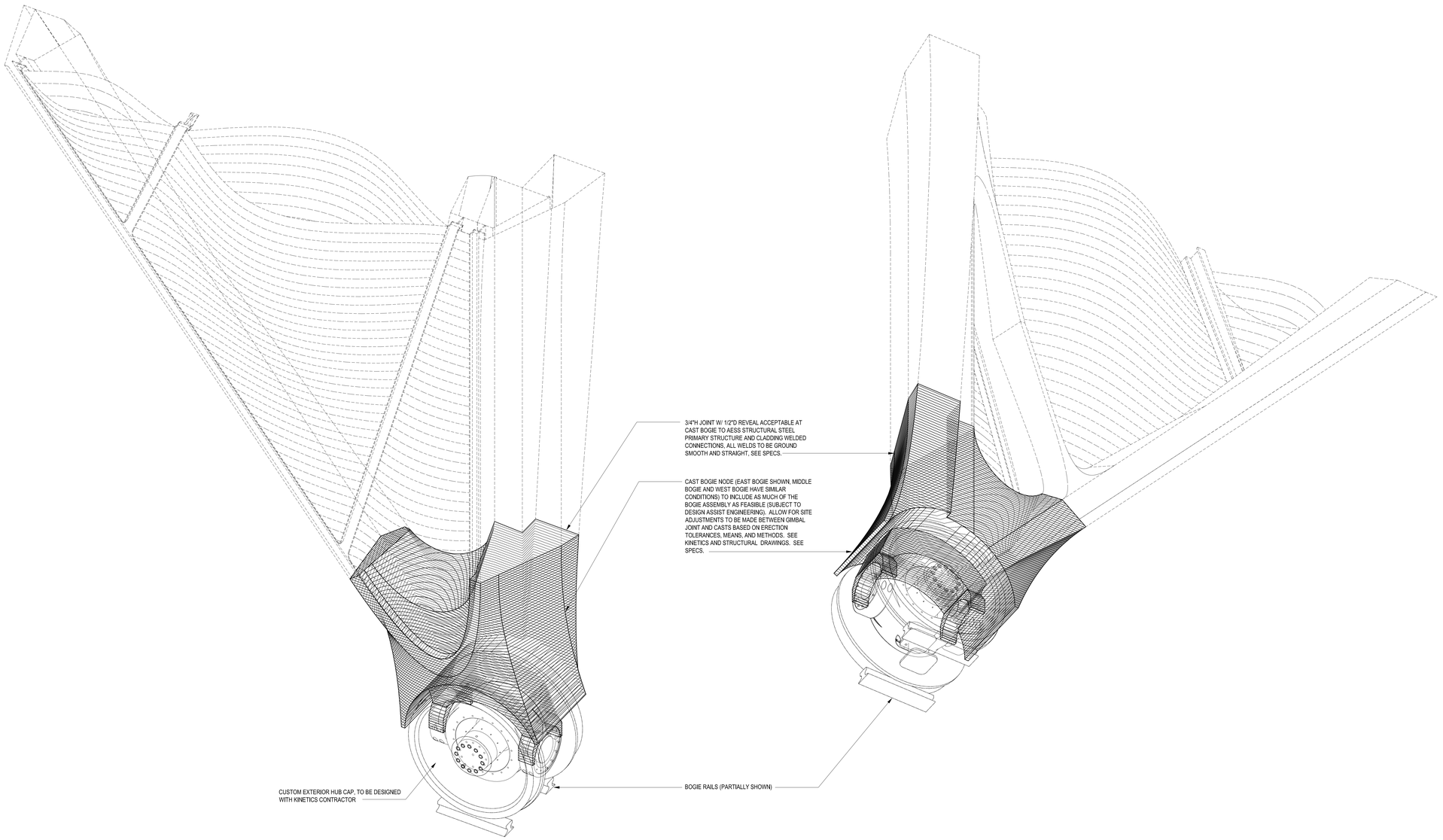
Scan Code 6397324056



01 VIEW FROM EXTERIOR (ABOVE)
SCALE: NTS

02 VIEW FROM EXTERIOR (BELOW)
SCALE: NTS

LEGEND

GENERAL NOTES

1.
For Shed components this drawing set is to be considered integral with the provided 3D models and may not be considered independently from the models. The contractor is to base their bid upon the information provided in both the drawings and 3D models. In matters of form and geometry the three dimensional model takes precedence in the instance of a discrepancy between drawing and model. In all other matters the contractor shall seek the opinion of the Architect and Structural Engineer to resolve the discrepancy.

2.
Geometry, dimensions and surface contouring, blending and intersection of sections illustrated in the structural drawings are provided for reference and generation of the structural arrangement and details only. The 3D model issued by the Architect defines the exterior surface and shall be adhered to for the final geometry. It is the responsibility of the Contractor to identify any discrepancies or ambiguities for discussion, resolution and direction from the Architect and Structural Engineer.

3.
Typical N/S wall node:
The geometry created by the intersecting main verticals and diagonals shall be in accordance with the 3D model and follow, as a minimum, the quality exhibited in the approved mock-up. The general concept is that edges flow smoothly and continuously between the straight edge of a diagonal through a curve to the adjacent edge of the vertical and the interlying surfaces between these edges are blended and contoured to define a smooth, uninterrupted transition.

4.
Typical Node Elsewhere:
The geometry created by the intersecting elements shall be in accordance with the 3D model. The level of quality is to be similar to the approved mock-up for the typical node. The general concept is that edges flow smoothly and continuously between the edge of one element to the corresponding edge of the adjacent element and the interlying surfaces between these edges are blended and contoured to define a smooth, uninterrupted transition.

5.
This drawing should be considered integral with the written Specifications issued along with the drawings and 3D models. Refer to the Advanced procurement Bid Issue Specifications Table of Contents.

6.
Structural steel cladding enclosing selected areas of the Shed (referred to as EWS-1c) shall be in the scope of the steel contractor for continuity with adjacent primary steel members. Criteria for tolerance and flatness to match that of the structural steel (see structural drawings & specifications). Plate configuration, including thickness, internal stiffeners and diaphragms, to be proposed by the fabricator and subject to agreement with the Architect and Engineer to provide an enclosure which satisfies the aesthetic and structural requirements. Refer to 3D model for extent of EWS-1c.

7.
Visually exposed HVAC supply and return ducts in the Shed, shown herein, are to be in the scope of the steel contractor to ensure continuity of appearance with primary steel. Criteria for tolerance and flatness to match that of the structural steel (see structural drawings & specifications). Plate configuration, including thickness, internal stiffeners and diaphragms, to be proposed by the fabricator and subject to agreement with the Architect and Engineer to provide an enclosure which satisfies the aesthetic and structural requirements. The mechanical ductwork carries its own self-supporting construction primary load-bearing element. External cladding may not create interference with airflow requirements of the duct. Refer to 3D model.

CAST BOGIE OPTION | 1 | NTS

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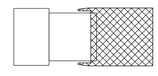
KEY PLAN



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TITLEBLOCK

Axonometrics Cast Bogie Option

SCALE: NTS

0 8 16 24

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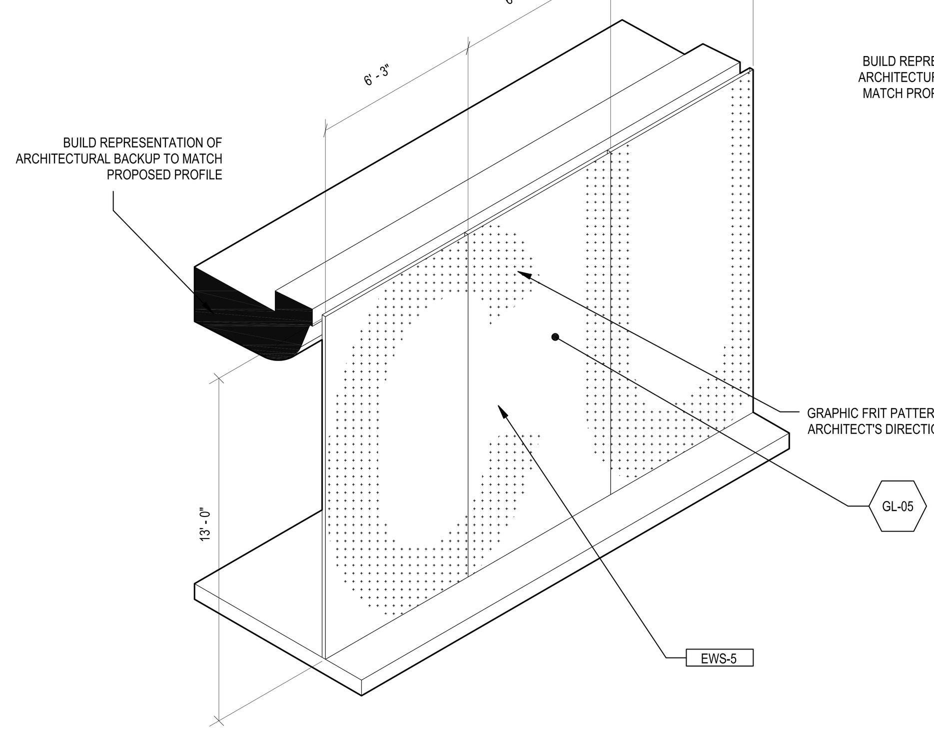
ES308689481 Scan Code

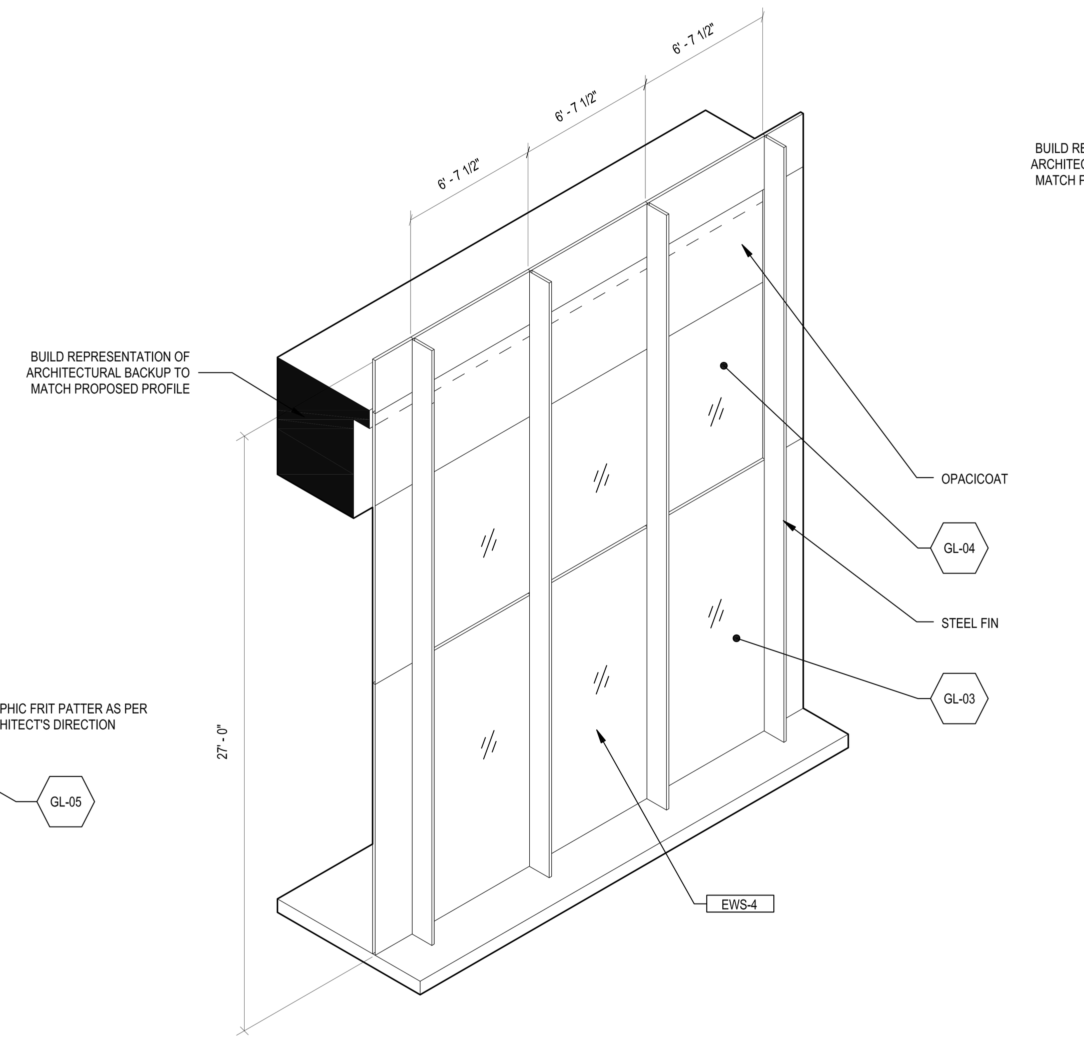
LEGEND

VMU
GENERAL NOTES:

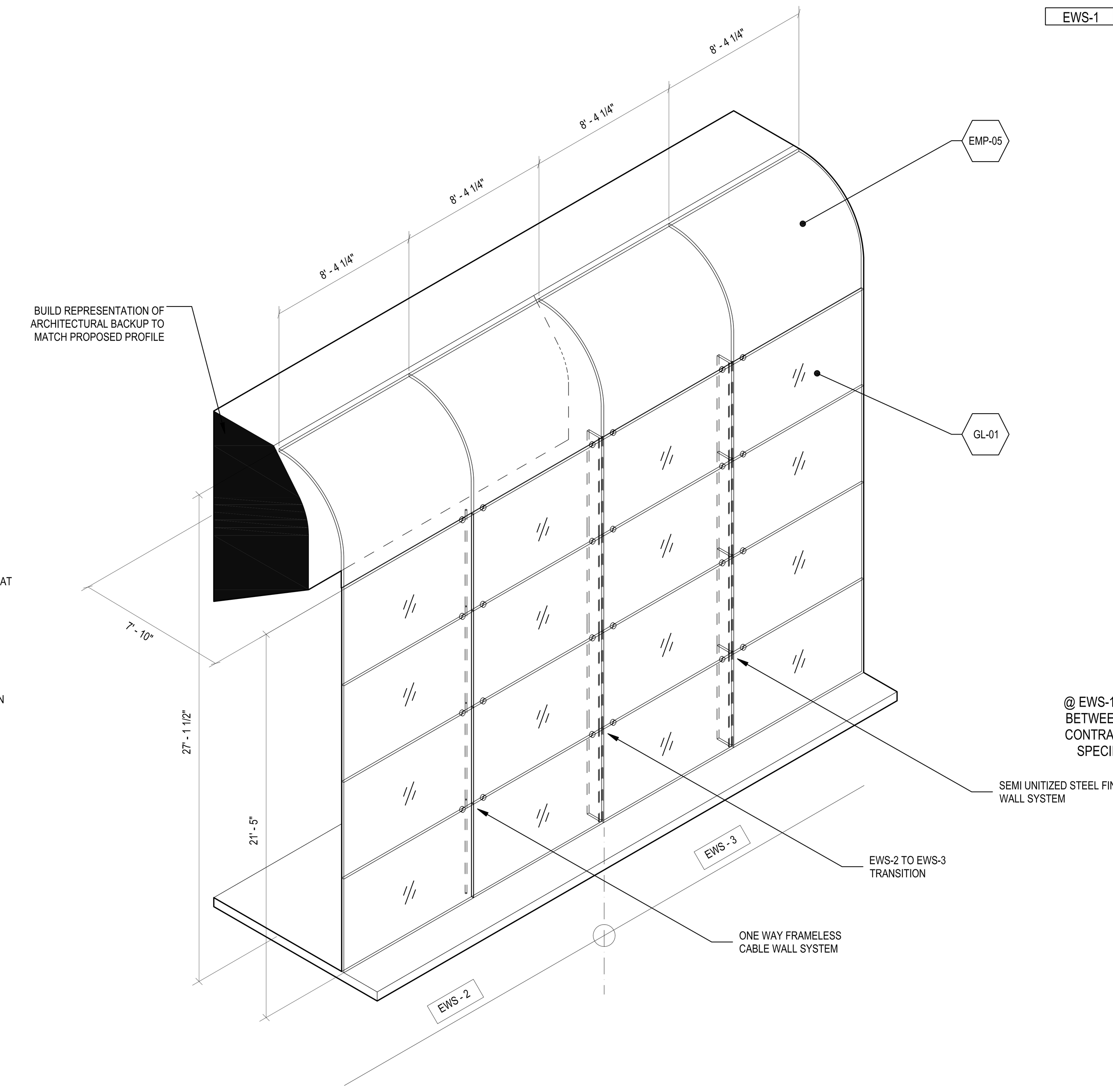
1. AT ALL VISUAL MOCK UPS, EXCEPT FOR EWS-1, CONSTRUCT WALL STRUCTURE BEHIND (MIN 48" FROM GLASS) TO SIMULATE BUILDING INTERIOR (PAINT AS DIRECTED BY ARCHITECT)



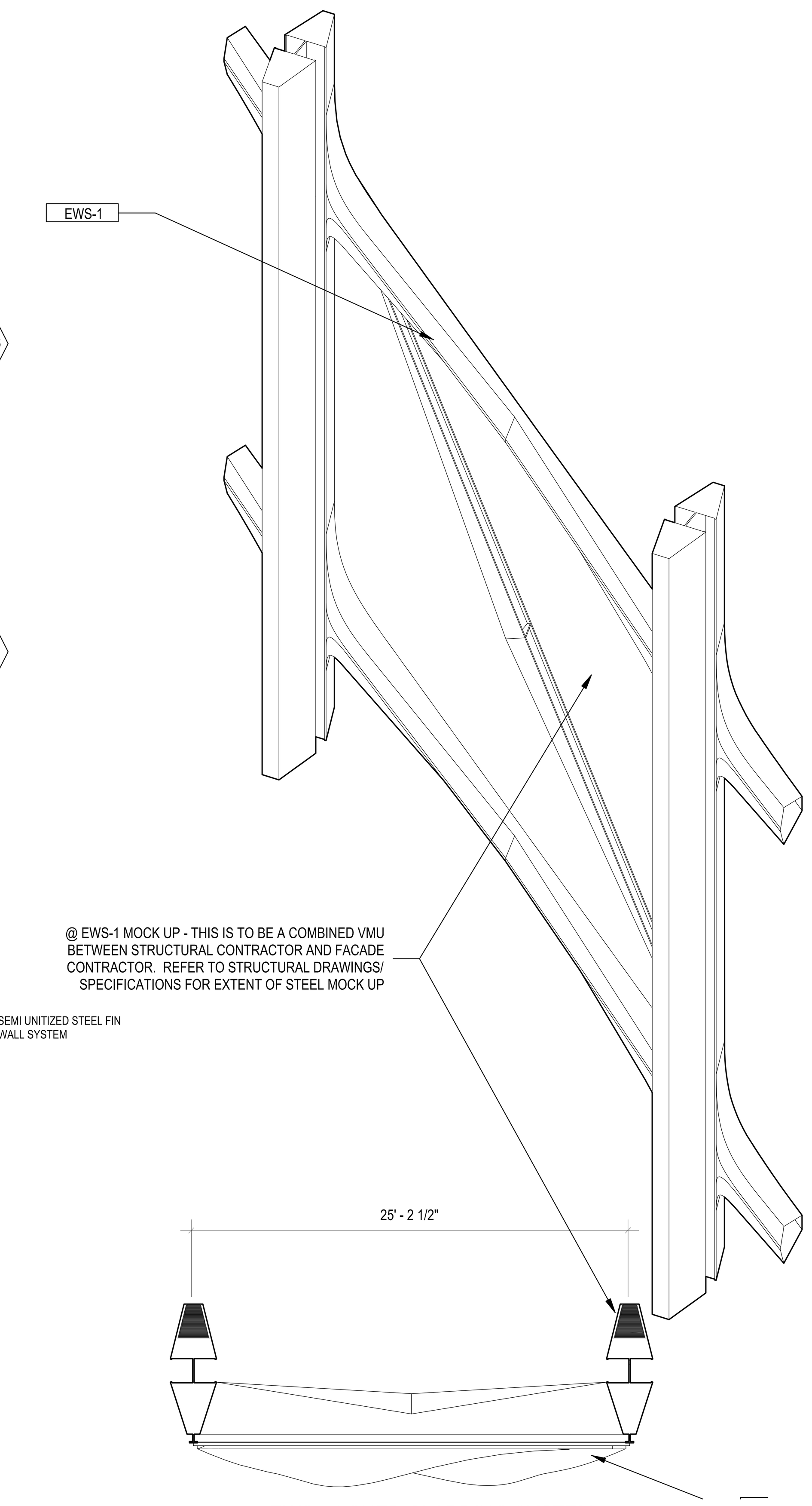
EWS - 5 30TH STREET STORE FRONT GLAZING



EWS - 4 FIXED BUILDING EAST STEEL FIN WALL



EWS - 2 CABLE WALL + EWS - 3 STEEL FIN WALL

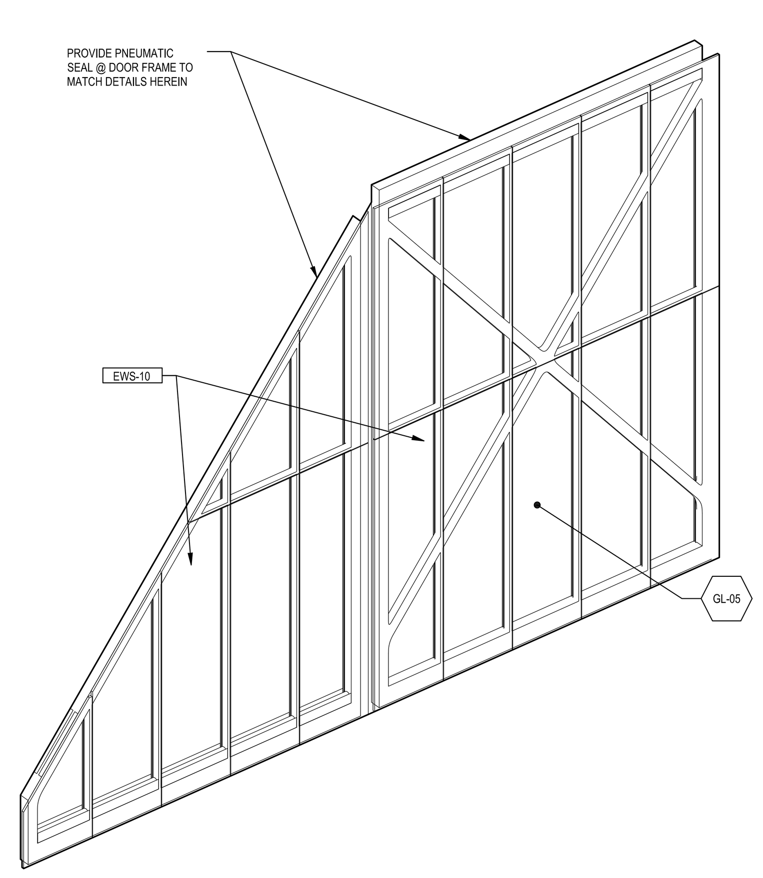


EWS - 1 SHED CLADDING SYSTEM

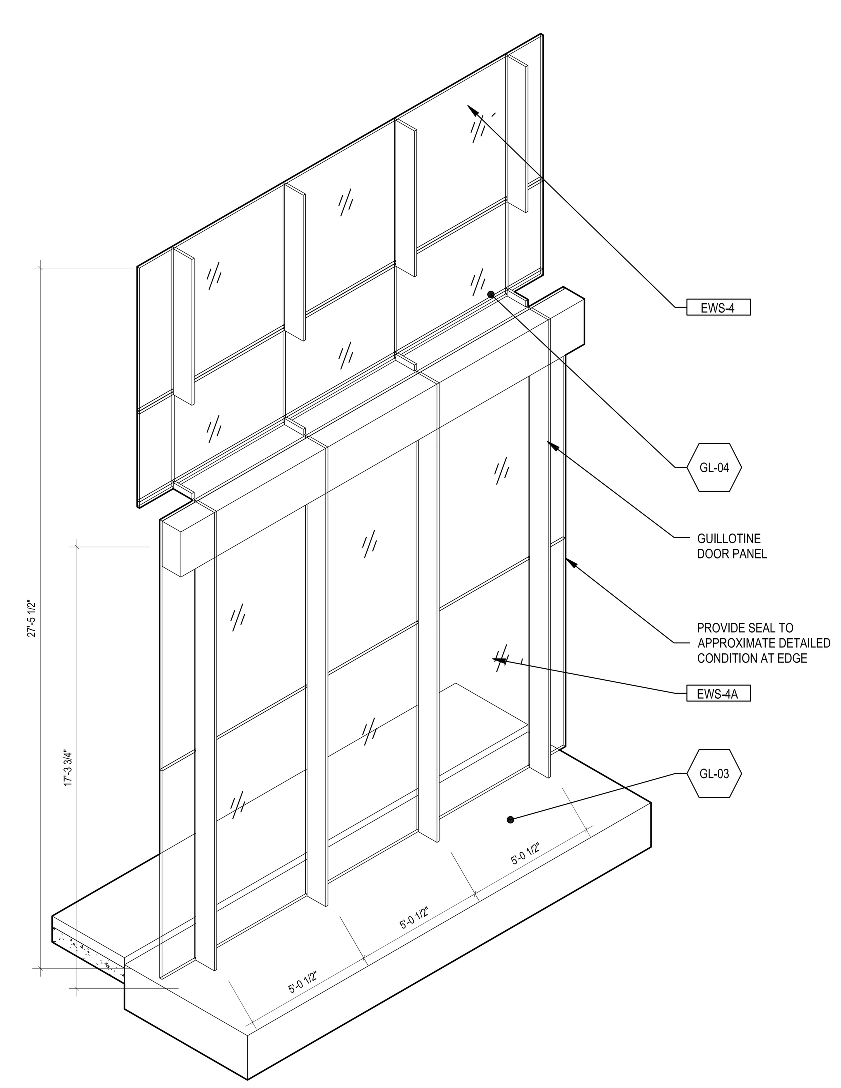
VISUAL MOCK UPS BY WALL SYSTEM 2 NTS

PMU
GENERAL NOTES:

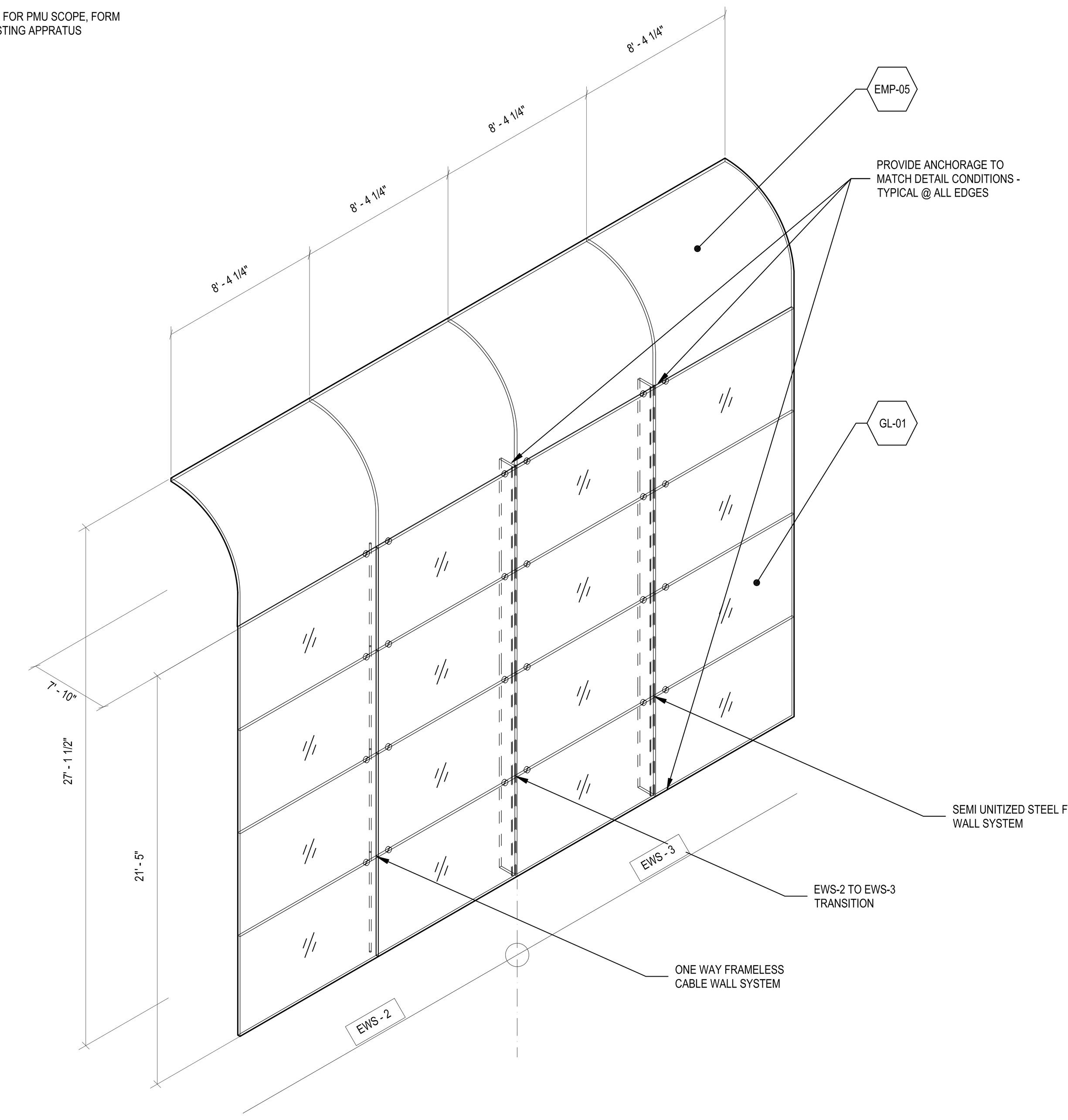
1. REFER TO SPECIFICATIONS FOR PMU SCOPE, FORM AND CONNECTIVITY WITH TESTING APPRATUS



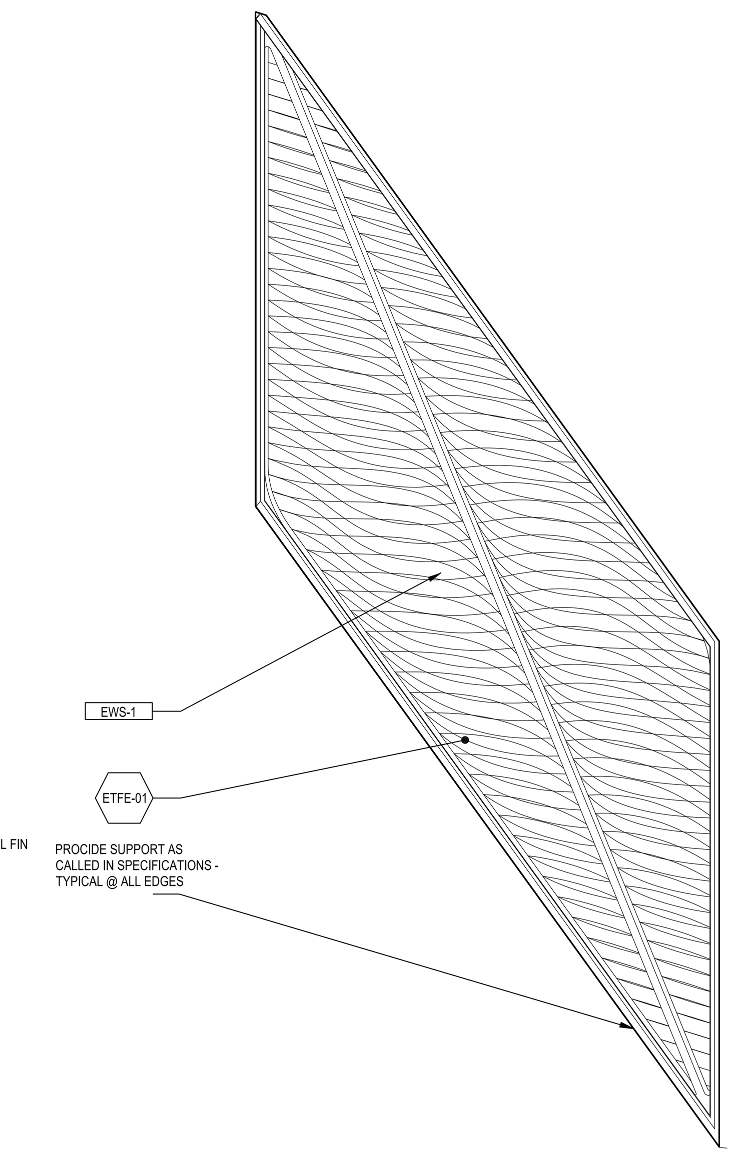
EWS - 10 SHED GUILLOTINE DOOR



EWS - 4 FIXED BUILDING EAST WALL GUILLOTINE DOOR



EWS - 2 CABLE WALL + EWS - 3 STEEL FIN WALL



EWS - 1 SHED ETFE CUSHION CLADDING PANELS

PERFORMANCE MOCK UPS BY WALL SYSTEM 1 NTS

GENERAL NOTES

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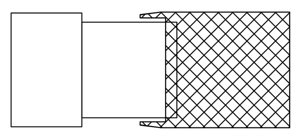

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STATE OF NEW YORK

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TITLE

TITLEBLOCK
EXTERIOR WALL SYSTEM VMU AND PMU MOCK UP

SCALE: NTS

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SHEET NO	SHEET NAME
S-000 SERIES: GENERAL	
S-001.01	COVER SHEET & DRAWING LIST
S-002.01	STRUCTURAL GENERAL NOTES
S-003.00	STRUCTURAL GENERAL NOTES II
S-005.00	STEEL TOLERANCES - GLOBAL
S-006.00	N/S WALL_ELEMENTS - STEEL TOLERANCES
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S-104.00	FRAMING PLAN, FIXED BUILDING - LEVEL 04
S-106.00	FRAMING PLAN, FIXED BUILDING - LEVEL 06
S-108.00	FRAMING PLAN, FIXED BUILDING - LEVEL 08
S-109.00	FRAMING PLAN, FIXED BUILDING - LEVEL 09/ROOF
S-110.00	FRAMING PLAN, FIXED BUILDING SLED DRIVE AND BMU TRACK
S-152.00	FRAMING PLAN, DEPLOYED SHED - MECHANICAL DECK
S-153.00	FRAMING PLAN, DEPLOYED SHED - ROOF
S-154.00	FRAMING PLAN, DEPLOYED SHED - BMU TRACK
S-200 SERIES: FOUNDATION SCHEDULES, SECTIONS AND DETAILS	
S-201.00	TYPICAL SLAB ON GRADE DETAILS
S-210.00	FOUNDATION SECTIONS
S-300 SERIES: ELEVATIONS AND BRACING DETAILS	
S-301.00	BRACING ELEVATIONS FIXED BUILDING I
S-302.00	BRACING ELEVATIONS FIXED BUILDING II
S-303.00	BRACING ELEVATIONS FIXED BUILDING III
S-304.00	BRACING ELEVATIONS FIXED BUILDING IV
S-310.00	SECTIONS FIXED BUILDING I
S-311.00	SECTIONS FIXED BUILDING II
S-312.00	SECTIONS, FIXED BUILDING III
S-320.00	TYPICAL BRACED FRAME CONNECTION DETAILS I
S-321.00	TYPICAL BRACED FRAME CONNECTION DETAILS II
S-351.00	ELEVATIONS, DEPLOYED SHED
S-352.00	SECTIONS, DEPLOYED SHED
S-354.00	TRUSS SECTIONS
S-355.00	TRUSS SECTIONS
S-400 SERIES: TRUSS, CASTELLATED BEAM AND STRONG POINT DETAILS	
S-401.00	FIXED BUILDING TRUSS ELEVATIONS AND DETAILS
S-402.00	CASTELLATED BEAM ELEVATIONS AND DETAILS
S-410.00A	STRONG POINT SUPPORT FRAMING PLAN, FIXED BUILDING LEVEL 04
S-411.00	STRONG POINT SUPPORT FRAMING PLAN, FIXED BUILDING LEVEL 08
S-412.00	TYPICAL STRONG POINT SUPPORT FRAMING DETAILS
S-421.00	BRIDGING ELEVATIONS AND DETAILS
S-500 SERIES: STRUCTURAL MODIFICATION PART PLANS AND DETAILS	
S-500.00	DEMOLITION AND INFILL PLAN, FIXED BUILDING LEVEL 00
S-501.00	MODIFICATION PART PLANS AND DETAILS, FIXED BUILDING LEVEL 00 - I
S-502.00	MODIFICATION PART PLANS AND DETAILS, FIXED BUILDING LEVEL 00 - II
S-503.00	MODIFICATION PART PLANS AND DETAILS, FIXED BUILDING LEVEL 00 AND 01
S-504.00	MODIFICATION PART PLANS AND DETAILS, FIXED BUILDING LEVEL 02 - I

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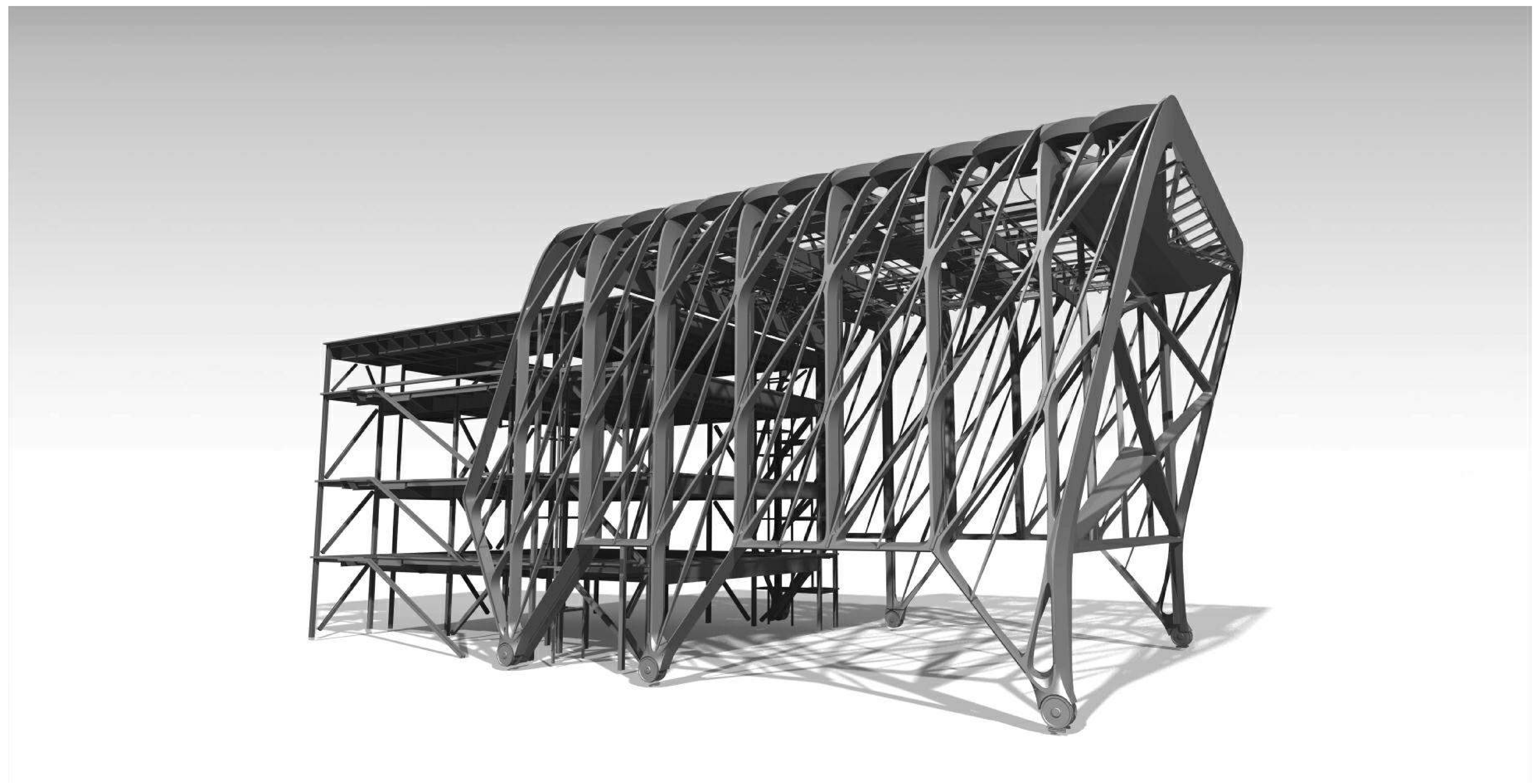
SHEET NO	SHEET NAME
S-600 SERIES: MASONRY SCHEDULES, SECTIONS AND DETAILS	
S-601.00	TYPICAL MASONRY NON-BEARING WALL SCHEDULES
S-602.00	TYPICAL MASONRY NON-BEARING WALL DETAILS
S-603.00	TYPICAL MASONRY NON-BEARING WALL TO STEEL DETAILS
S-604.00	TYPICAL MASONRY NON-BEARING WALL TO CONCRETE DETAILS
S-700 SERIES: STEEL SUPERSTRUCTURE SECTIONS AND DETAILS	
S-701.00	TYPICAL STEEL BEAM DETAILS I
S-702.00	TYPICAL STEEL BEAM DETAILS II
S-703.00	TYPICAL STEEL BEAM DETAILS III
S-704.00	TYPICAL STEEL BEAM DETAILS IV
S-710.00	TYPICAL COMPOSITE STEEL DECK DETAILS I
S-711.00	TYPICAL COMPOSITE STEEL DECK DETAILS II
S-712.00	TYPICAL COMPOSITE STEEL DECK DETAILS III
S-713.00	TYPICAL COMPOSITE STEEL DECK DETAILS IV
S-720.00	SECTIONS AND DETAILS, FIXED BUILDING LEVEL 00 AND 01 - I
S-721A.00	SECTIONS AND DETAILS, FIXED BUILDING LOBBY I
S-721B.00	SECTIONS AND DETAILS, FIXED BUILDING LOBBY II
S-722.00	SECTIONS AND DETAILS, FIXED BUILDING LEVEL 02 - I
S-723.00	SECTIONS AND DETAILS, FIXED BUILDING LEVEL 02 - II
S-724.00	SECTIONS AND DETAILS, FIXED BUILDING L04 TO L08 - I
S-725.00	SECTIONS AND DETAILS, FIXED BUILDING L04 TO L08 - II
S-726.00	SECTIONS AND DETAILS, FIXED BUILDING LEVEL 09/ROOF
S-727.00	SECTIONS AND DETAILS, FIXED BUILDING ROOF II
S-750.00	DETAILS, DEPLOYED SHED NORTH/SOUTH TYPICAL WALL SECTIONS
S-751.00	TYPICAL WALL PLATE THICKNESSES I
S-752.00	TYPICAL WALL PLATE THICKNESSES II
S-753.00	MAIN VERTICAL WELD DETAILS
S-754.00	MAIN DIAGONAL WELD DETAILS
S-755.00	DETAILS, DEPLOYED SHED NORTH/SOUTH WALL NODES - I
S-757.00	DEPLOYED SHED NORTH/SOUTH WALL - ATYPICAL ELEMENTS
S-758.00	DEPLOYED SHED NORTH/SOUTH WALL - TERTIARY ELEMENTS
S-760.00	DETAILS, DEPLOYED SHED NORTH/SOUTH WALL - CURVED SECTIONS
S-761.00	DETAILS, DEPLOYED SHED NORTH/SHOUTH WALLS - CURVED SECTION DETAILS
S-763.00	DETAILS, DEPLOYED SHED NORTH/SOUTH WALLS - E-W TRUSSES
S-764.00	DETAILS, DEPLOYED SHED DRIVE CONNECTION
S-765.00	SHED TO BOGIE CONNECTION
S-766.00	SHED TO BOGIE DETAILS
S-768.00	DETAILS, DEPLOYED SHED NORTH/SOUTH WALLS - N-S TRUSSES
S-770.00	DETAILS DEPLOYED SHED EAST WALL I
S-771.00	DETAILS DEPLOYED SHED EAST WALL II
S-772.00	DETAILS, DEPLOYED SHED EAST WALL
S-773.00	DETAILS, DEPLOYED SHED EAST PORTAL TYPICAL SECTIONS
S-774.00	DETAILS, DEPLOYED SHED EAST PORTAL - NODES
S-785.00	DETAILS, DEPLOYED SHED - MECHANICAL DECK
S-786.00	DETAILS, DEPLOYED SHED MECHANICAL DUCTWORK
S-790.00	DEPLOYED SHED NORTH/SOUTH WALL - QUAD MEMBERS
S-791.00	DEPLOYED SHED NORTH/SOUTH WALL - QUAD CONNECTIONS
S-794.00	DEPLOYED SHED EAST WALL - QUAD MEMBER
S-798.00	DEPLOYED SHED -DEAD LOAD DEFLECTIONS I
S-799.00	DEPLOYED SHED -DEAD LOAD DEFLECTIONS II
S-800 SERIES: DOORS AND KINETICS	
S-801.00	DEPLOYED SHED NORTH & SOUTH DOORS - LAYOUT
S-802.00	DEPLOYED SHED NORTH & SOUTH DOORS - FRAMING
S-803.00	DEPLOYED SHED NORTH & SOUTH DOORS - DETAILS I
S-804.00	DEPLOYED SHED NORTH AND SOUTH DOORS - CONNECTION FORCES
S-811.00	DEPLOYED SHED EAST DOORS - LAYOUT
S-812.00	DEPLOYED SHED EAST DOORS - FRAMING
S-813.00	DEPLOYED SHED EAST DOORS - DETAILS I
S-900 SERIES: COLUMN SCHEDULES AND DETAILS	
S-901.00	FIXED BUILDING COLUMN SCHEDULE
S-902.00	TYPICAL STEEL COLUMN DETAILS



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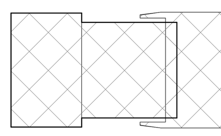
KEY PLAN



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Damian Titus
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWN BY: Author
CHECKED BY: Checker

PROJECT NUMBER
N11318.00

TITLE
COVER SHEET & DRAWING LIST

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GR GENERAL REQUIREMENTS

GR-1 AS USED IN THESE GENERAL NOTES:
"DRAWINGS" MEANS THE LATEST STRUCTURAL DESIGN DRAWINGS, UON.
"SPECIFICATIONS" MEANS THE LATEST PROJECT SPECIFICATIONS, UON.
"CONTRACT DOCUMENTS" IS DEFINED AS THE DESIGN DRAWINGS AND THE SPECFICATIONS
"SER" IS DEFINED AS THE STRUCTURAL ENGINEER OF RECORD FOR THE STRUCTURE IN ITS FINAL CONDITION.
"DESIGN PROFESSIONALS" IS DEFINED AS THE OWNER'S ARCHITECT AND SER.
"MEP" INCLUDES, BUT IS NOT LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION.
"CONTRACTOR" IS DEFINED TO INCLUDE ANY OF THE FOLLOWING: GENERAL CONTRACTOR AND THEIR SUBCONTRACTORS, CONSTRUCTION MANAGER AND THEIR SUBCONTRACTORS, STRUCTURAL STEEL FABRICATOR OR STRUCTURAL STEEL ERECTOR.
"BASE BUILDING STRUCTURE" IS DEFINED AS THE STRUCTURAL FRAME DESIGNED BY THORNTON TOMASETTI.
"STRUCTURE IN ITS FINAL CONDITION" MEANS ALL STRUCTURAL ELEMENTS SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS ARE INSTALLED AND COMPLETELY CONNECTED AND INSPECTED WITH NO OUTSTANDING NON-COMPLIANCE ISSUES.

GR-2 THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE STRUCTURAL WORK WITH THE ARCHITECTURAL, CIVIL, MEP CONTRACT DOCUMENTS, AS WELL AS ANY OTHER APPLICABLE TRADES.

GR-3 THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE UNTIL THE CONSTRUCTION OF THE STRUCTURE REACHES ITS FINAL CONDITION.

GR-4 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND REMOVAL OF TEMPORARY BRACING AND CONSTRUCTION SUPPORTS, FOR NEW AND EXISTING STRUCTURES, AS NECESSARY TO COMPLETE THE PROJECT. NO PORTION OF THE PROJECT WHILE UNDER CONSTRUCTION IS INTENDED TO BE STABLE IN THE ABSENCE OF THE CONTRACTOR'S TEMPORARY SUPPORTS AND BRACES. CONTRACTOR SHALL RETAIN A STRUCTURAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED TO DESIGN TEMPORARY BRACING AND CONSTRUCTION SUPPORTS.

GR-5 LATERAL LOAD RESISTANCE AND STABILITY OF THE STRUCTURE IN ITS FINAL CONDITION IS PROVIDED BY BRACED FRAMES. AND MOMENT FRAMES AND LATERAL STABILITY OF OTHER ELEMENTS IS PROVIDED THROUGH FLOOR SLABS, ROOF DECK, AND IN FLOOR BRACING .

GR-6 THE SPECIFICATIONS ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS AND SHALL BE USED IN CONJUNCTION WITH THE STRUCTURAL DRAWINGS.

GR-7 THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND COORDINATE WITH THE STRUCTURAL DRAWINGS, ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER CONSULTANTS, PROJECT SHOP DRAWINGS AND FIELD CONDITIONS.

GR-8 IN CASES OF CONFLICT BETWEEN DRAWINGS AND/OR SPECIFICATIONS AND OTHER DISCIPLINES OR EXISTING CONDITIONS, CONTRACTOR SHALL NOTIFY THE DESIGN PROFESSIONALS AND OBTAIN CLARIFICATION PRIOR TO BIDDING AND PROCEEDING WITH WORK.

GR-9 APPLY DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS WHERE CONDITIONS ARE SIMILAR TO THOSE INDICATED BY DETAIL, DETAIL TITLE OR NOTE.

GR-10 ONLY USE DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE DRAWINGS.

GR-11 ASSUME EQUAL SPACING BETWEEN ESTABLISHED DIMENSIONS, IF NOT INDICATED ON DRAWINGS.

GR-12 CENTERLINES OF COLUMNS AND FOUNDATIONS COINCIDE WITH GRID LINE INTERSECTIONS, UON.

GR-13 CENTERLINES OF GRADE BEAMS AND WALLS COINCIDE WITH CENTERLINES OF FOUNDATIONS, UON.

GR-14 CENTERLINES OF FRAMING MEMBERS COINCIDE WITH COLUMN CENTERLINES, UON.

GR-15 THE CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITIES FROM DAMAGE.

GR-16 THE CONTRACTOR SHALL VERIFY THAT CONSTRUCTION LOADS DO NOT EXCEED THE CAPACITY OF THE STRUCTURE AT THE TIME THE LOAD IS APPLIED.

GR-17 THE CONTRACTOR SHALL COORDINATE THE BOTTOM OF BASE PLATE ELEVATIONS WITH THE AS-BUILT TOP OF SUPPORT ELEVATIONS.

GR-18 THE CONTRACTOR SHALL VERIFY ALL OPENING SIZES AND LOCATIONS WITH OTHER DISCIPLINES. THE DRAWINGS DO NOT SHOW ALL OPENINGS REQUIRED. ADDITIONAL OPENINGS, BLOCKOUTS AND SLEEVES MAY BE REQUIRED BY OTHER DISCIPLINES AND SHALL BE CONSTRUCTED USING THE TYPICAL DETAILS AND/OR THE CRITERIA INDICATED ON THE DRAWINGS. OPENINGS REQUIRED BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS MUST BE APPROVED BY THE STRUCTURAL ENGINEER.

GR-19 ELEVATIONS INDICATED ONSTRUCTURAL DRAWINGS ARE BASED ON A PROJECT DATUM INDICATED ON THE ARCHITECTURAL DRAWINGS.

GR-20 SEE ARCHITECTURAL, CIVIL, MEP, AND VERTICAL TRANSPORTATION, CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION RELATING TO THE COORDINATION OF STRUCTURAL COMPONENTS INCLUDING, BUT NOT LIMITED TO:

CIVIL:
SITING OF BUILDING GRID LINES WITH RESPECT TO CITY BENCHMARKS
SITE PREPARATION
BACKFILLING MATERIALS AND REQUIREMENTS
PAVING AND SITE ELEMENTS OUTSIDE OF BUILDING ENVELOPE
NEW AND EXISTING SITE UTILITIES

ARCHITECTURAL:
PLAN DIMENSIONS AND PROJECT DATUM
SLAB EDGE DIMENSIONS
FINISH ELEVATIONS
WATERPROOFING AND DAMP-PROOFING DETAILS
RAMP GEOMETRY, PITS, SLAB SLOPES AND DEPRESSIONS
EMBEDMENTS, INSERTS, BLOCKOUTS, ETC.
EXACT OPENING SIZES FOR PIPES, DUCTS, ETC.
CONCRETE FINISHES AND TOPPING SLABS
CONCRETE CURBS AND HOUSEKEEPING PADS
INTERIOR NON-STRUCTURAL MASONRY PARTITIONS
FIRE RATINGS
METAL PAN STAIRS AND SUPPORTS
OPERABLE PARTITIONS

MEP:
PIPE AND DUCT SIZES FOR OPENING AND SLEEVE COORDINATION
FLOOR DRAINS
UNDERFLOOR AND PERIMETER DRAINAGE SYSTEMS
EQUIPMENT CURBS
CONDUITS AND EMBEDMENTS IN WALLS AND SLABS

VERTICAL TRANSPORTATION:
INSERTS, HANGERS, TRENCHES, PITS, CONDUITS IN WALLS AND SLABS
EQUIPMENT SUPPORT
EQUIPMENT SUPPORT, ELEVATOR DIVIDER BEAMS, EMBEDMENTS, AND ANCHOR BOLTS.

CD CODES AND DESIGN CRITERIA

CD-1 PERFORM ALL CONSTRUCTION IN CONFORMANCE WITH THE BUILDING AND DESIGN CODES REFERENCED WITHIN THESE DOCUMENTS. THE PROJECT DOCUMENTS REFER TO THE FOLLOWING CODES AND STANDARDS, UON:

2008 NYC BUILDING CODE

STRUCTURAL CONCRETE:
"BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
THE AMERICAN CONCRETE INSTITUTE (ACI 318-2008)

CONCRETE MASONRY:
"BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES"
THE AMERICAN CONCRETE INSTITUTE (ACI 530-2008)

STRUCTURAL STEEL:
"SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", [MARCH 9, 2005 THIRTEENTH EDITION] CONFORMING TO THE PROVISIONS OF LOAD RESISTANCE FACTOR DESIGN,
BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC-LRFD)

CD-2 LIVE LOADS:

OFFICES/FLOORS	50 LBS./SQ. FT.
EXIT FACILITIES	100 LBS./SQ. FT.
RETAIL AREAS	100 LBS./SQ. FT.
KITCHEN	100 LBS./SQ. FT.
AUDITORIUM	100 LBS./SQ. FT.
LIGHT STORAGE AREA	100 LBS./SQ. FT.
LOADING DOCK	250 LBS/SQ. FT.OR AASHTO HS20-44
MECHANICAL ROOMS	150 LBS/SQ. FT. OR ACTUAL WEIGHT
ROOFS (INCLUDING GREEN ROOF)	30 LBS./SQ. FT. [UNREDUCED]
GALLERY/EXHIBIT FLOORS	100 LBS./SQ. FT
GALLERY RIGGING	20 PSF
SHED GRID IRON	50 PSF PLUS 20 PSF RIGGING

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CD-3 SUPERIMPOSED DEAD LOADS:

ASSUMED SUPERIMPOSED DEAD LOADS

PLATFORM L02		50 PSF FLOOR FINISH 30 PSF HUNG MECHANICAL
EXHIBIT FLOORS L06		50 PSF ACOUSTIC SLAB AND FLOOR FINISH 10 PSF HUNG MECHANICAL/CEILING
EXHIBIT/RESTAURANT FLOOR L08		50 PSF TAPERED FILL 25 PSF PAVERS, ROOFING AND INSULATION 10 PSF HUNG MECHANICAL/CEILING
EXHIBIT FLOOR L04		10 PSF HUNG MECHANICAL/CEILING
MEZZANINE FLOOR L05		10 PSF HUNG MECHANICAL/CEILING
MEZZANINE FLOOR L01		10 PSF HUNG MECHANICAL/CEILING
FIXED ROOF		50 PSF TAPERED FILL 10 PSF HUNG MECHANICAL/CEILING
SHED ROOF		15 PSF ROOFING 10 PSF HUNG MECHANICAL (33)
FACADES	FIXED BUILDING	25 PSF GLASS FACADE
	SHED	3 PSF ETFE, 20 PSF GLASS FOR BOTTOM 30 FT (33)

CD-4 SNOW LOADS:

GROUND SNOW LOAD (Pg)	25 PSF
SNOW EXPOSURE FACTOR (Ce):	0.9
THERMAL FACTOR (Ct):	1.0
SNOW LOAD IMPORTANCE FACTOR (Is):	1.1
FLAT ROOF SNOW LOAD (Pf):	22 PSF

CD-5 WIND LOAD DESIGN DATA

BASIC WIND SPEED, V	98 MPH
EXPOSURE CATEGORY	B
WIND IMPORTANCE FACTOR (Iw)	1.15
DIRECTIONALITY FACTOR (Kd)	0.85
TOPOGRAPHIC FACTOR (Kzt)	1.00
GUST EFFECT FACTOR (G)	0.85
EXTERNAL PRESSURE COEFFICIENT (Cp)	+0.8 WINDWARD WALL -0.5 LEEWARD WALL

THE DESIGN WIND LOADS ARE AS FOLLOWS:

HEIGHT ABOVE GROUND LEVEL	DESIGN WIND PRESSURE
150 FT	40 PSF
100 FT	38 PSF
0 TO 90 FT	34 PSF

CD-6 SEISMIC LOAD DESIGN DATA:

SITE CLASS	C
AT SHORT PERIODS (Sds)	0.365g
AT ONE SECOND PERIODS (Sd1)	0.071g
SEISMIC IMPORTANCE FACTOR (Is)	1.25
SEISMIC USE GROUP	II
SEISMIC DESIGN CATEGORY	B
RESPONSE MODIFICATION FACTOR (R)	3 FOR STEEL SYSTEM
BUILDING PERIOD COEFFICIENT (Ct)	0.02
APPROXIMATE FUNDAMENTAL PERIOD (Ta)	0.774 sec.
SEISMIC RESPONSE COEFFICIENT (Cs)	0.0302
DEFLECTION AMPLIFICATION FACTOR (Cd)	3
DESIGN BASE SHEAR	975 kips

CD-7 IN CASES WHERE THE CONTRACTOR DETERMINES THAT SUSPENDED OR FLOOR MOUNTED MEP EQUIPMENT LOADS EXIST WHICH EXCEED DESIGN LOADS INDICATED ON CONTRACT DOCUMENTS, CONTRACTOR SHALL SUBMIT LOAD DATA TO DESIGN PROFESSIONALS FOR REVIEW PRIOR TO PROCEEDING WITH WORK.

CD-8 DISTRIBUTE THE MAXIMUM LOAD HUNG FROM ANY STRUCTURAL MEMBER FOR MEP DUCTWORK, PIPING ETC OVER THE MEMBER'S TRIBUTARY AREA IN A WAY THAT THE DESIGN SUPERIMPOSED DEAD LOADS LISTED IN CONTRACT DOCUMENTS ARE NOT EXCEEDED. THE CONTRACTOR SHALL COORDINATE THE LOADS OF ALL TRADES AND PROVIDE ADDITIONAL SUPPORT OR DISTRIBUTION FRAMING AS REQUIRED TO ACHIEVE THE ALLOWABLE LOAD DISTRIBUTION.

CD-9 ESCALATOR SUPPORTS AND PITS ARE BASED ON ESCALATOR TYPES INDICATED ON ARCHITECTURAL CONTRACT DOCUMENTS. CONTRACTOR SHALL SUBMIT FOR REVIEW ANY PLANNED CHANGE TO ESCALATORS TO DESIGN PROFESSIONALS PRIOR TO SUBMITTING CORRESPONDING STRUCTURAL SHOP DRAWINGS FOR ACTION.

CD-10 ELEVATOR GUIDERAIL SUPPORTS, MACHINE ROOMS, PITS, AND PENTHOUSES ARE BASED ON ELEVATOR TYPES INDICATED ON ARCHITECTURAL CONTRACT DOCUMENTS. CONTRACTOR SHALL SUBMIT FOR REVIEW ANY PLANNED CHANGE TO ELEVATORS TO DESIGN PROFESSIONALS PRIOR TO SUBMITTING CORRESPONDING STRUCTURAL SHOP DRAWINGS FOR ACTION.

CD-11 STRUCTURAL COMPONENTS ARE NOT DESIGNED FOR VIBRATING EQUIPMENT. MOUNT VIBRATING EQUIPMENT ON VIBRATION ISOLATORS.

CD-12 CONNECTIONS OF SYSTEMS DESIGNED BY CONTRACTOR'S ENGINEER SUCH AS, BUT NOT LIMITED TO, CLADDING, STAIRS, ELEVATORS, ESCALATORS, PRECAST STADIA, AND MEP LOADS ARE ASSUMED TO IMPOSE VERTICAL AND/OR HORIZONTAL LOADS ON THE BASE BUILDING STRUCTURAL MEMBERS WITHOUT GENERATING TORSION IN THE SUPPORTING STRUCTURAL MEMBERS. CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL SUPPLEMENTARY BRACING MEMBERS AS REQUIRED TO PREVENT TORSION ON THE BASE BUILDING STRUCTURE.

SS STRUCTURAL STEEL

SS-1 STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS UNLESS OTHERWISE NOTED ON THE CONTRACT DOCUMENTS:

ROLLED SHAPES AND CHANNELS:	ASTM A572 OR A992, MIN. YIELD STRENGTH 50 KSI
ANGLES FOR TRUSSES AND BRACES:	ASTM A36 MIN YIELD STRENGTH 36 KSI
MISCELLANEOUS ANGLES:	ASTM A36
HOLLOW STRUCTURAL SECTIONS:	ASTM A500 GRADE B, MIN YIELD STRENGTH 42 KSI FOR ROUND AND 46 KSI FOR RECTANGULAR HSS
SEAMLESS PIPE:	ASTM A53 GRADE B, TYPE S, MIN YIELD STRENGTH 35 KSI.
PLATES	ASTM A572, GRADE 50

SS-2 CONNECTION MATERIAL SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS OR AS NEEDED FOR CONNECTION DESIGN:

ANGLES:	ASTM A36
WTs:	ASTM A992
PLATES:	ASTM A36, MINIMUM YIELD STRENGTH 36 KSI
BOLTS:	ASTM A325 OR A490
NUTS:	ASTM A563
WASHERS:	ASTM F436
ANCHOR RODS:	ASTM F1554 GRADE 55 WITH WELDABILITY SUPPLEMENT S1
HEADED STUDS	ASTM A 108, GRADE 1010 THROUGH 1020 HEADED STUD TYPE, COLD-FINISHED CARBON STEEL, AWS D1.1, TYPE B. ¾" DIAMETER
WELD ELECTRODES:	E70XX

SS-3 WHERE NO CAMBER IS INDICATED, FABRICATE BEAMS SO THAT ANY NATURAL CAMBER IS UPWARD AFTER ERECTION.

SS-4 SPLICES SHALL BE ALLOWED ONLY AT LOCATIONS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS UNLESS APPROVED OTHERWISE BY THE SER IN WRITING.

SS-5 FOR STEEL MEMBERS AND EMBEDMENTS EXPOSED TO WEATHER, PROVIDE HOT-DIPPED GALVANIZED FINISH.

SS-6 PROVIDE HOLES IN ALL STEEL AS REQUIRED TO PREVENT ANY ACCUMULATION OF WATER. ALL PENETRATIONS THROUGH MAIN MEMBERS SHALL NOT EXCEED 1 1/8" DIA. AND SHALL BE GROUND SMOOTH. THESE DRAINS MUST BE KEPT CLEAN AND OPEN.

SS-7 SHOW ALL COPES, HOLES, OPENINGS AND MODIFICATIONS REQUIRED IN STRUCTURAL STEEL MEMBERS FOR ERECTION OR THE WORK OF OTHER TRADES ON THE SHOP DRAWINGS FOR APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER.

SS-8 FIELD MODIFICATION OF STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.

SS-9 THE CONTRACTOR SHALL SUBMIT A STEEL ERECTION PROCEDURE, PREPARED UNDER THE SUPERVISION OF A STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE LOCATION OF THE PROJECT (THE CONTRACTOR'S ENGINEER) FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD. THIS PROCEDURE MUST INCLUDE THE PROPOSED SURVEY REQUIRED BY THE STEEL SPECIFICATIONS. SURVEY SHALL INCLUDE SURVEY OF ALL SLOPED COLUMNS AT EACH LEVEL BEFORE AND AFTER CONCRETE POURS.

SS-10 STEEL USING COMPLETE JOINT PENETRATION GROOVE WELDS THAT FUSE THROUGH THE THICKNESS OF THE FLANGE OR WEB SHALL HAVE A MINIMUM CHARPY V-NOTCH IMPACT TESTING VALUE AS FOLLOWS:

A. ASTM A6/A6M HOT-ROLLED SHAPES WITH A FLANGE THICKNESS EXCEEDING **2** INCHES AND BUILT-UP HEAVY SHAPES WITH PLATES EXCEEDING 2 INCHES IN THICKNESS: 20 FT-LB @ 70 DEG. F
B. REGARDLESS OF THICKNESS, ALL TRUSSES, LATERAL SYSTEM MEMBERS (INCLUDING COLUMNS, WIND GIRDERS, BRACES, ETC.): 20 FT-LB @ 70 DEG. F
C. STEEL EXPOSED TO TEMPERATURES IN SERVICE BELOW 50 DEG. F: **25** FT-LB @ **40** DEG. F.
D. WELD METAL: 20 FT-LB @ MINUS 20 DEG. F AND 40 FT-LB @ 70 DEG. F
E. WELD METAL EXPOSED TO TEMPERATURES IN SERVICE BELOW 50 DEG. F: 25 FT-LB @ MINUS 40 DEG. F
F. TESTING IS TO BE IN ACCORDANCE WITH ASTM A6/A6M, SUPPLEMENTARY REQUIREMENT S30, CHARPY V-NOTCH IMPACT TEST FOR STRUCTURAL SHAPES – ALTERNATE CORE LOCATION, AT ROLLED SHAPES AND ASTM A673 FOR PLATES, AT ANY PERMITTED LOCATIONS.

SC STRUCTURAL STEEL CONNECTIONS

SC-1 ALL STEEL DETAILS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", AISC-LOAD AND RESISTANCE FACTOR DESIGN U.N.O..

SC-2 ALL CONNECTIONS, UNLESS INDICATED AS BEING FULLY DESIGNED ON THE STRUCTURAL DRAWINGS, SHALL BE DESIGNED AND DETAILED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. THE DESIGN AND DETAILING SHALL COMPLY WITH ALL APPLICABLE CODES AND SPECIFICATION SECTIONS.

SC-3 UNLESS OTHERWISE NOTED, DETAILS INDICATED ON DRAWINGS INDICATE GENERAL CRITERIA FOR DESIGN AND DETAILING OF CONNECTIONS. DETAILS INDICATED ON DRAWINGS ARE NOT INTENDED TO CONVEY COMPLETE CONNECTOR SIZES, PLATE SIZES, WELD SIZES, NUMBER OF BOLTS, OR ANY OTHER SPECIFIC INFORMATION THAT IS OBTAINED THROUGH DESIGNING OF AN INDIVIDUAL CONNECTION FOR A GIVEN SET OF LOADS. THESE DETAILS DO NOT SHOW ERECTION AIDS. PROVIDE ERECTION AIDS AS REQUIRED AND REMOVE THEM AFTER WORK IS COMPLETE.

SC-4 SUBMIT CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS TO THE SER FOR REVIEW PRIOR TO REVIEW OF SHOP DRAWINGS. FOR BIDDING PURPOSES, WHERE NO MOMENT IS INDICATED ON DRAWINGS PROVIDE FULL MOMENT CAPACITY OF MEMBER (.9 Fy Z) AND WHERE NO VERTICAL SHEAR IS INDICATED ON DRAWINGS PROVIDE FULL SHEAR CAPACITY (.54 Fy d tw).

SC-5 ALTERNATE CONNECTIONS TO THOSE SHOWN ON DRAWINGS WILL ONLY BE CONSIDERED ACCEPTABLE IF CONTRACTOR FORMALLY SUBMITS ALTERNATES AND THE SER APPROVES THE SUBMITTAL.

SC-6 FOR CONNECTION DESIGN AND DETAILING, SET CONNECTION WORK POINT AT INTERSECTION OF MEMBER CENTERLINES, UON.

SC-7 DESIGN ALL CONNECTIONS FOR FORCES INDICATED ON THE DRAWINGS. CONNECTION DESIGN FORCES INDICATED ON THE DRAWINGS ARE FACTORED UON.

SC-8 DESIGN OF MEMBERS IS BASED ON ASSUMPTION OF 7/8-INCH DIAMETER AND 1 1/8-INCH DIAMETER A325 OR A490 BOLTS. USE NO MORE THAN TWO BOLT DIAMETERS, ONE GRADE PER DIAMETER, SKIP ONE SIZE BETWEEN DIAMETERS.

SC-9 BEAM CONNECTION DESIGN NOTES

SEE PLANS AND ELEVATIONS FOR BEAM REACTIONS AND MOMENTS THAT ARE LARGER THAN THE VALUE SHOWN IN SCHEDULES.

DEVELOP THE LARGER OF THE BEAM SHEAR REACTION SCHEDULED, SHOWN ON PLANS OR SHOWN ON ELEVATIONS.

DEVELOP THE LARGER OF THE MOMENT SCHEDULED, SHOWN ON PLANS OR SHOWN ON ELEVATIONS.

DEVELOP THE LARGER OF THE AXIAL FORCE DENOTED AS P OR TF SHOWN ON PLANS OR SHOWN ON ELEVATIONS. SEE STEEL BEAM LEGEND.

WHERE NO AXIAL FORCE IS SHOWN ALL BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM AXIAL FORCE EQUAL TO 5% OF THE VERTICAL SHEAR REACTION ACTING CONCURRENTLY WITH THE VERTICAL BEAM SHEAR

WHERE NO AXIAL FORCE IS SHOWN ALL BEAM CONNECTIONS SHALL BE DESIGNED FOR AN AXIAL FORCE EQUAL TO THE VERTICAL SHEAR REACTION, 10 KIPS MINIMUM. FOR THE DESIGN OF THE CONNECTIONS, THE SHEAR FORCE AND THE AXIAL TENSILE FORCE NEED NOT BE CONSIDERED TO ACT SIMULTA-NEOUSLY.

ALL BEAM REACTIONS, AXIAL FORCES AND MOMENTS ACT CONCURRENTLY. UON, BEAM REACTIONS ACT IN GRAVITY DIRECTION WHILE AXIAL FORCES AND MOMENTS ARE TO BE CONSIDERED REVERSIBLE.

EXCEPT WHERE "SNUG TIGHT" INSTALLATION IS SPECIFICALLY PERMITTED ON DRAWINGS or "SLIP CRITICAL" DETAILING IS REQUIRED, ALL HIGH STRENGTH BOLTS SHALL BE INSTALLED AS FULL PRETENSIONED BOLTS.

AT A MINIMUM ALL BOLTED MOMENT AND AXIAL CONNECTION SHALL HAVE PRETENSIONED BOLTS IN STANDARD HOLES.

BOLTED MOMENT CONNECTIONS AT CANTILEVERS AND BACKSPANS SHALL USE SLIP CRITICAL BOLTS.

DO NOT USE OVERSIZED OR SLOTTED HOLES FOR ANY CONNECTIONS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED IN WRITING BY THE SER.

SC-10 ALL WELDING, U.N.O., SHALL CONFORM TO THE REQUIREMENTS OF THE STRUCTURAL WELDING CODE, ANSI/AWS D1.1, LATEST EDITION. ALL WELD SIZES SHALL BE THE LARGER OF THE SIZE REQUIRED BY CONNECTION FORCES, THE MINIMUM SIZE PER ANSI/AWS D1.1, OR 3/16 INCH MINIMUM FILLET WELD UON. ANY WELD SIZES SHOWN ON THE DESIGN DRAWINGS ARE CONSIDERED EFFECTIVE WELD SIZES AND SHALL BE INCREASED IN ACCORDANCE WITH AWS AS REQUIRED BY GAPS OR SKEWS BETWEEN COMPONENTS.

SC-11 USE RUNOFF TABS AT ALL BEVEL AND FULL PENETRATION WELDS. REMOVE RUNOFF TABS BY NEAT CUTS AFTER WELD IS COMPLETED. GRIND SMOOTH WHERE REQUIRED BY DETAIL.

SC-12 WHERE REQUIRED BY DETAIL REMOVE WELD BACK UP BARS AND GRIND SMOOTH AFTER WELD IS COMPLETED.

SC-13 FOR TRUSS DETAILING USE A MINIMUM BOLT SPACING OF 3 TIMES THE BOLT DIAMETER AND A MINIMUM EDGE DISTANCE OF 2 INCHES. ALSO REFER TO TYPICAL DETAILS.

SC-14 DESIGN, DETAIL, FURNISH AND INSTALL STIFFENERS, CONTINUITY PLATES, DOUBLER PLATES, OR OTHER NECESSARY ADDITIONAL LOCAL STRENGTHENING MEASURES AS REQUIRED. MEMBER SIZES INDICATED ON THE DRAWINGS ARE BASED ON MEMBER BEHAVIOR AWAY FROM CONNECTIONS.

DK STEEL COMPOSITE DECK AND FORM DECK

DK-1 COMPOSITE DECK AND FORM DECK SHALL CONFORM TO THE FOLLOWING STANDARDS AND MATERIAL PROPERTIES:

ASTM A653-HOT-DIPPED GALVANIZED CONFORMING TO ASTM A924 G90

DK-2 DESIGN AND DETAIL COMPOSITE DECK TO SUPPORT SCHEDULED DESIGN LOADS, WORKING AS A PART OF COMPOSITE SLAB.

DK-3 FASTEN COMPOSITE FLOOR DECK UNITS AS FOLLOWS:
A. TO THE STEEL FRAMEWORK AT ENDS OF UNITS AND AT ALL INTERMEDIATE SUPPORTS: BY PUDDLE WELDS NOT LESS THAN 3/4 INCH DIAMETER SPACED AT 12 INCHES ON CENTER MAXIMUM, UON. WHERE PRESENT, A HEADED STUD CAN REPLACE A PUDDLE WELD.

B. AT SIDE LAPS OF ADJACENT UNITS BETWEEN SUPPORTS: BY SIDE SEAM WELDING (MINIMUM OF 1-1/2 INCH BY 1/2 INCH) AT INTERVALS NOT EXCEEDING 24 INCHES ON CENTER UON.

DK-4 COMPOSITE FLOOR DECK HANGER TABS LOADS SHALL NOT EXCEED **60** LBS PER HANGER TAB. IN ADDITION LOADS ON HANGERS SHALL BE DISTRIBUTED IN SUCH A MANNER THAT THE TRIBUTARY LOADS FOR EACH HANGER SHALL NOT EXCEED 5 POUNDS PER SQUARE FOOT. DO NOT HANG MEP EQUIPMENT AND PIPING DIRECTLY FROM STEEL DECK.

DK-5 DISTRIBUTE STEEL STUDS UNIFORMLY OVER BEAM SPAN UNLESS OTHERWISE NOTED ON DRAWINGS. MAXIMUM SPACING OF 3/4 INCH HEADED STUDS SHALL NOT EXCEED 12" ON CENTER (ONE STUD PER FOOT) UNLESS OTHERWISE NOTED ON PLAN.

DK-6 HEADED SHEAR STUDS SHALL EXTEND A MINIMUM OF 1 ½ INCHES ABOVE THE TOP OF STEEL DECK WITH A MINIMUM CLEAR COVER OF ½ INCH FROM THE TOP OF SLAB.

DK-7 STEEL COMPOSITE DECKS ARE TO BE POURED-TO-THICKNESS OR AS INDICATED ON THE DRAWINGS.

DK-8 DESIGN AND DETAIL STEEL COMPOSITE DECK, FORM DECK, DECK ENCLOSURES, AND DECK ACCESSORIES FOR CONSTRUCTION LOADS. IN DETERMINING CONSTRUCTION LOADING OF FRESH CONCRETE, ACCOUNT FOR RELEVANT FACTORS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

A. THE PLANNED CONCRETE PLACEMENT METHODS
B. ADDITIONAL CONCRETE WEIGHT DUE TO DECK DEFLECTION
C. ADDITIONAL CONCRETE WEIGHT DUE TO CUMULATIVE DEFLECTION OF INDIVIDUAL BEAMS AND GIRDERS EQUAL TO DIAGONAL BAY DIMENSION BETWEEN COLUMNS DIVIDED BY **360** LESS ANY INDICATED CAMBER.

CI CONTROLLED INSPECTIONS

CI-1 THE FOLLOWING CONTROLLED INSPECTIONS ARE REQUIRED TO BE PERFORMED IN ACCORDANCE WITH THE BUILDING CODE OF THE CITY OF NEW YORK:

ITEM	NYC CODE REF SECTION
STRUCTURAL STEEL - WELDING	BC 1704.3.1
STRUCTURAL STEEL - ERECTION & BOLTING	BC 1704.3.2, BC 1704.3.3
CONCRETE - CAST-IN-PLACE	BC 1704.4
MASONRY	BC 1704.5
SOILS - SITE PREPARATION	BC 1704.7.1
ALTERNATIVE MATERIALS - OTCR BUILDINGS BULLETIN #2009-019	BC 1704.13
STRUCTURAL SAFETY - STRUCTURAL STABILITY	BC 1704.19
CONCRETE TEST CYLINDERS	BC 1905.6
CONCRETE DESIGN MIX	BC 1905.3
FOOTING AND FOUNDATION	BC 109.3.1

DE DEMOLITION

DE-1 THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE MEANS AND METHODS OF DEMOLITION AND THE INTEGRITY AND STABILITY OF THE EXISTING STRUCTURE DURING DEMOLITION UNTIL THE WORK IS COMPLETED. THE CONTRACTOR SHALL PROVIDE SHORING IN REQUIRED LOCATIONS WHERE EXISTING CONSTRUCTION TO REMAIN WILL BE AFFECTED BY DEMOLITION.

DE-2 THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS TO ANY STRUCTURAL ELEMENTS WHICH ARE TO REMAIN AND THAT HAVE BEEN DAMAGED DURING THE DEMOLITION PROCESS TO THE COMPLETE SATISFACTION OF THE OWNER. THE REPAIRS SHALL BE AT NO EXPENSE TO THE OWNER. ALL REPAIR WORK SHALL BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF NEW YORK AND SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO COMMENCING REPAIR WORK.

DE-3 ALL EXISTING FRAMING IS INDICATED FOR REFERENCE ONLY AND IS TO BE FIELD VERIFIED BY THE CONTRACTOR. VERIFY THE EXACT EXTENT OF DEMOLITION AT THE SITE. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECESSARY BY COMPARING THE CONTRACT DOCUMENTS WITH THE EXISTING CONSTRUCTION.

DE-4 THE CONTRACTOR SHALL USE THE STRUCTURAL CONTRACT DOCUMENTS IN CONJUNCTION WITH THE ARCHITECTURAL AND MEP DEMOLITION CONTRACT DOCUMENTS. IN THE EVENT OF CONFLICTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER.

DE-5 THE CONTRACTOR SHALL USE QUALIFIED, EXPERIENCED PERSONNEL FOR DEMOLITION AND REMOVAL OPERATIONS. PERFORM DEMOLITION AND REMOVAL OPERATIONS IN A CAREFUL AND ORDERLY MANNER TO PREVENT HAZARDS TO PERSONS, DAMAGE TO PROPERTY, AND THE SPREADING OF DUST AND DEBRIS.

DE-6 DO NOT PERMIT PORTIONS OF THE STRUCTURE TO FALL NOR DEBRIS TO DROP EXCEPT BY METHODS WHICH WILL INSURE INTEGRITY OF THE STRUCTURE.

DE-7 PRIOR TO THE START OF WORK, VERIFY THAT THE SCOPE OF DEMOLITION INDICATED ON THE CONTRACT DOCUMENTS SHALL NOT DAMAGE, CUT OR DISRUPT SERVICE OF ANY MECHANICAL SYSTEM, ELECTRICAL SYSTEM OR UTILITY EMBEDDED IN THE EXISTING STRUCTURE.

DE-8 DO NOT REMOVE MORE OF THE EXISTING STRUCTURE THAN INDICATED ON CONTRACT DOCUMENTS. DO NOT DAMAGE, MAR, CUT OR DEFACE THE REMAINING STRUCTURE OR MATERIALS TO BE REUSED.

DE-9 THE CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF REMOVING DEMOLISHED MATERIALS FROM THE SITE IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS.

DE-10 WHERE NEW OPENINGS IN EXISTING CONCRETE SLABS OR WALLS ARE TO BE CREATED, THE DEMOLITION CONTRACTOR SHALL CORE HOLES AT THE OUTSIDE CORNERS OF THE NEW OPENING PRIOR TO DEMOLITION. SAW-CUT AND DEMOLISH SLAB OR WALL ONLY AFTER THE INSTALLATION OF ALL REQUIRED NEW STRUCTURAL FRAMING AND/OR REINFORCEMENT IN PLAN OR SECTION, UON. SAW CUTTING SHALL BE STRAIGHT AND SHALL NOT EXTEND INTO EXISTING SLAB OR WALL TO REMAIN NOR BEYOND THE HOLES CORED AT THE CORNERS OF THE NEW OPENING.

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
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KEY PLAN

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1		ADVANCED PROCUREMENT BID SET	06.16.2014

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STATE OF NEW YORK · ELI B. GOTTLIEB · 080894 · LICENSED PROFESSIONAL ENGINEER

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PROJECT NUMBER
N11318.00

TITLE
STRUCTURAL GENERAL NOTES

DRAWING NO.
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B-SCAN NO.
S-002.01

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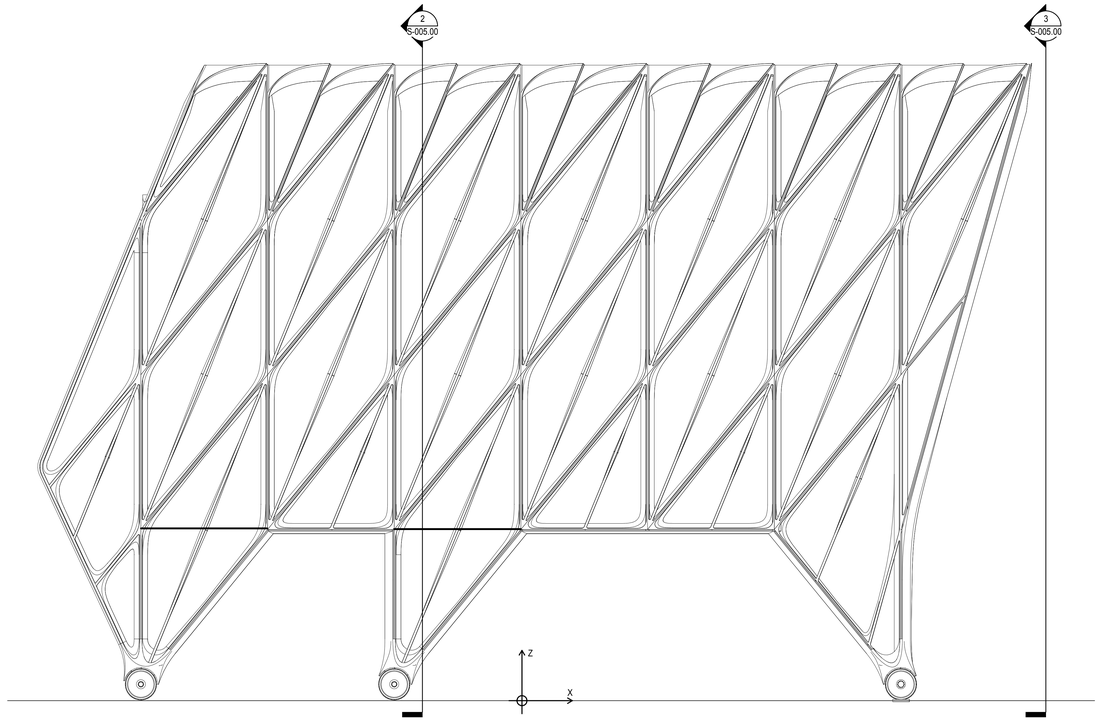
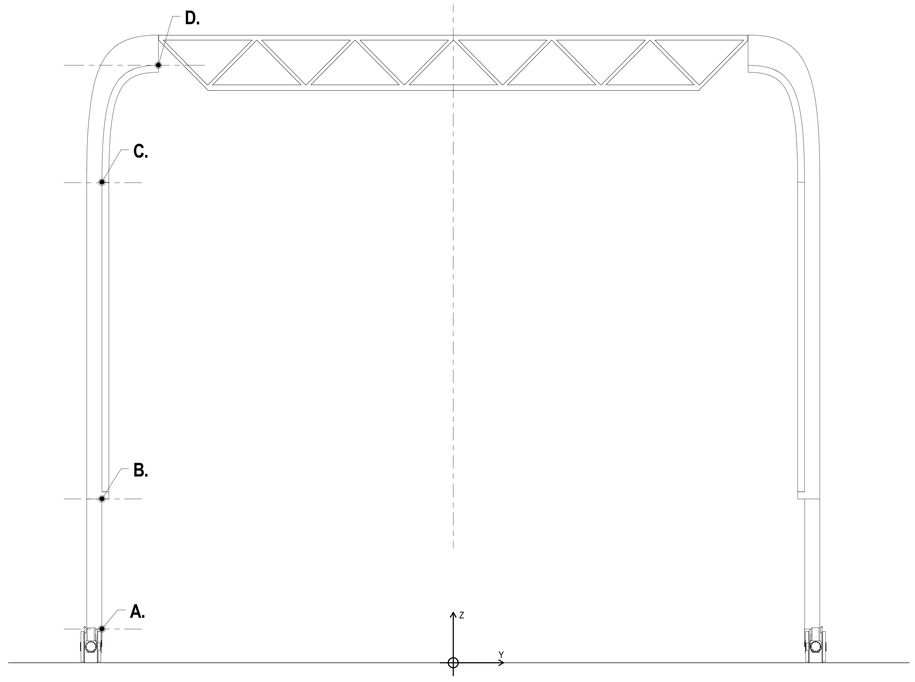
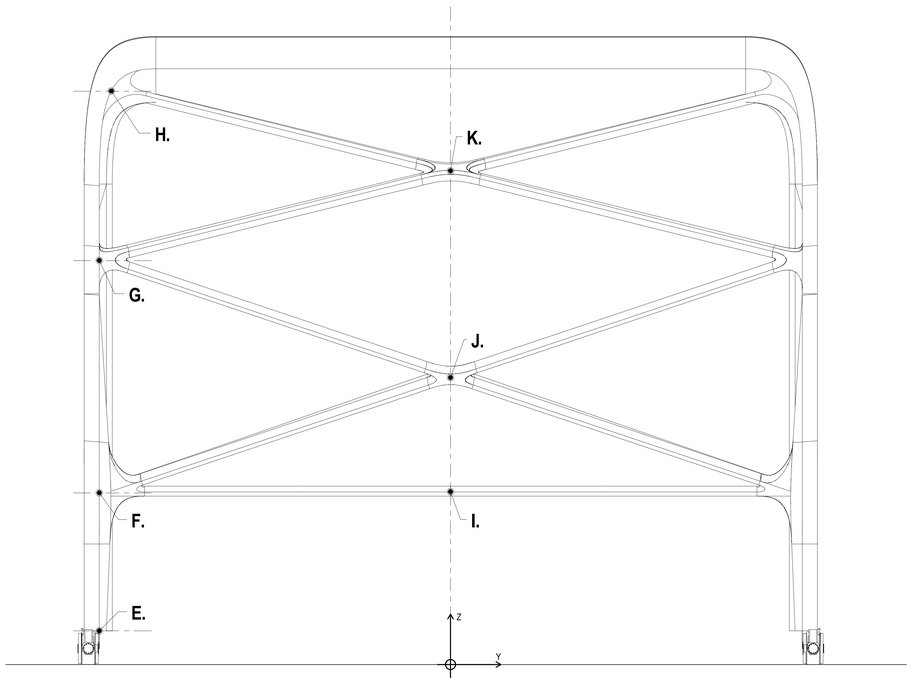
GEOMETRY, DIMENSIONS AND SURFACE CONTOURING, BLENDING AND INTERSECTION OF SECTIONS ILLUSTRATED IN THE STRUCTURAL DRAWINGS ARE PROVIDED FOR REFERENCE AND GENERATION OF STRUCTURAL ARRANGEMENT AND DETAILS ONLY. THE 3D MODEL ISSUED BY THE ARCHITECT DEFINES THE EXTERIOR SURFACE AND SHALL BE ADHERED TO FOR THE FINAL GEOMETRY. FOR DETAILS OF SECONDARY STEEL, INCLUDING STRUCTURAL CLADDING REFER TO ARCHITECTURE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY ANY DISCREPANCIES OR AMBIGUITIES FOR DISCUSSION, RESOLUTION AND DIRECTION FROM THE ARCHITECT AND SER.



1 **SOUTH ELEVATION**
3/32" = 1'-0"



2 **SECTION 01**
3/32" = 1'-0"



3 **EAST PORTAL**
3/32" = 1'-0"

	GLOBAL TOLERANCE (in)			
POINT	X	Y	Z	ABSOLUTE
A	0.1	0.1	0.1	0.16
B	0.35	0.35	0.30	0.60
C	1.25	1.0	1.25	2.0
D	1.50	1.0	1.50	2.25
E	0.1	0.1	0.1	0.16
F	0.35	0.35	0.30	0.60
G	1.25	1.0	1.25	2.0
H	1.50	1.0	1.50	2.25
I	0.35	0.35	0.30	0.60
J	0.75	0.75	0.75	1.25
K	1.0	1.0	1.0	1.50

NOTES

1. GLOBAL TOLERANCE ASSUMED TO BE SYMMETRIC
2. ASSUME LINEAR VARIATION BETWEEN POINTS
3. REFER TO TOLERANCE SHEETS S-006.00 - S-010.00 FOR LOCAL TOLERANCES
4. GLOBAL AND LOCAL TOLERANCES ARE NOT CUMULATIVE
5. TOLERANCES ARE TOTAL TO FABRICATION AND ERECTION

GENERAL NOTES

- Sheets S-005 through S-009 illustrate project specific tolerances for the fabrication and installation of Shed steelwork.
- These drawings are to be read in conjunction with the steel specification and supersede the main specification where a tighter tolerance is specified. In the event the main specification exhibits tighter control the main specification then supersedes these drawings.
- Any discrepancies or ambiguities are to be raised by the contractor for discussion with the Architect and EoR.
- The drawings provide general tolerances for the global structure, element tolerances between nodes and local tolerances for each typical section.
- Typical sections are drawn for the North & South Wall main verticals, diagonals and East Wall and Portal.
- Unless otherwise stated the specified tolerances for the main diagonals will apply to all sections on the North & South Walls.
- Unless otherwise stated the specified tolerances for the typical East Wall and Portal section will apply to all sections on the North & South Walls.
- Steelwork in the mechanical deck and roof is considered within the main specification and standard code of practice however we note that ornamental steelwork/mechanical ductwork steelwork attached to the underside of the trusses shall follow the specified tolerances of the mechanical ductwork shown in the typical main vertical section.

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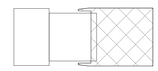

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TITLE
STEEL TOLERANCES - GLOBAL

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S-005.00

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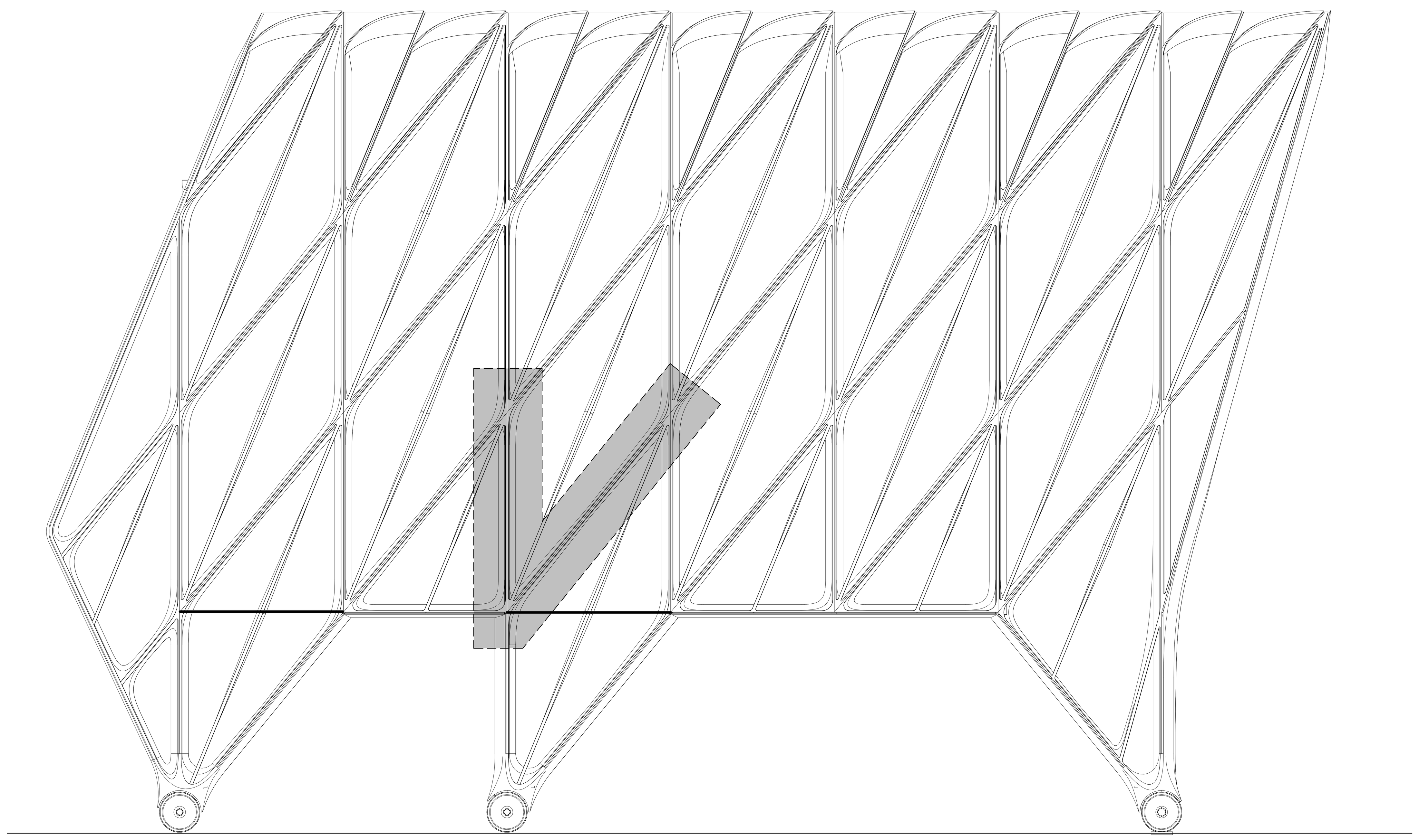
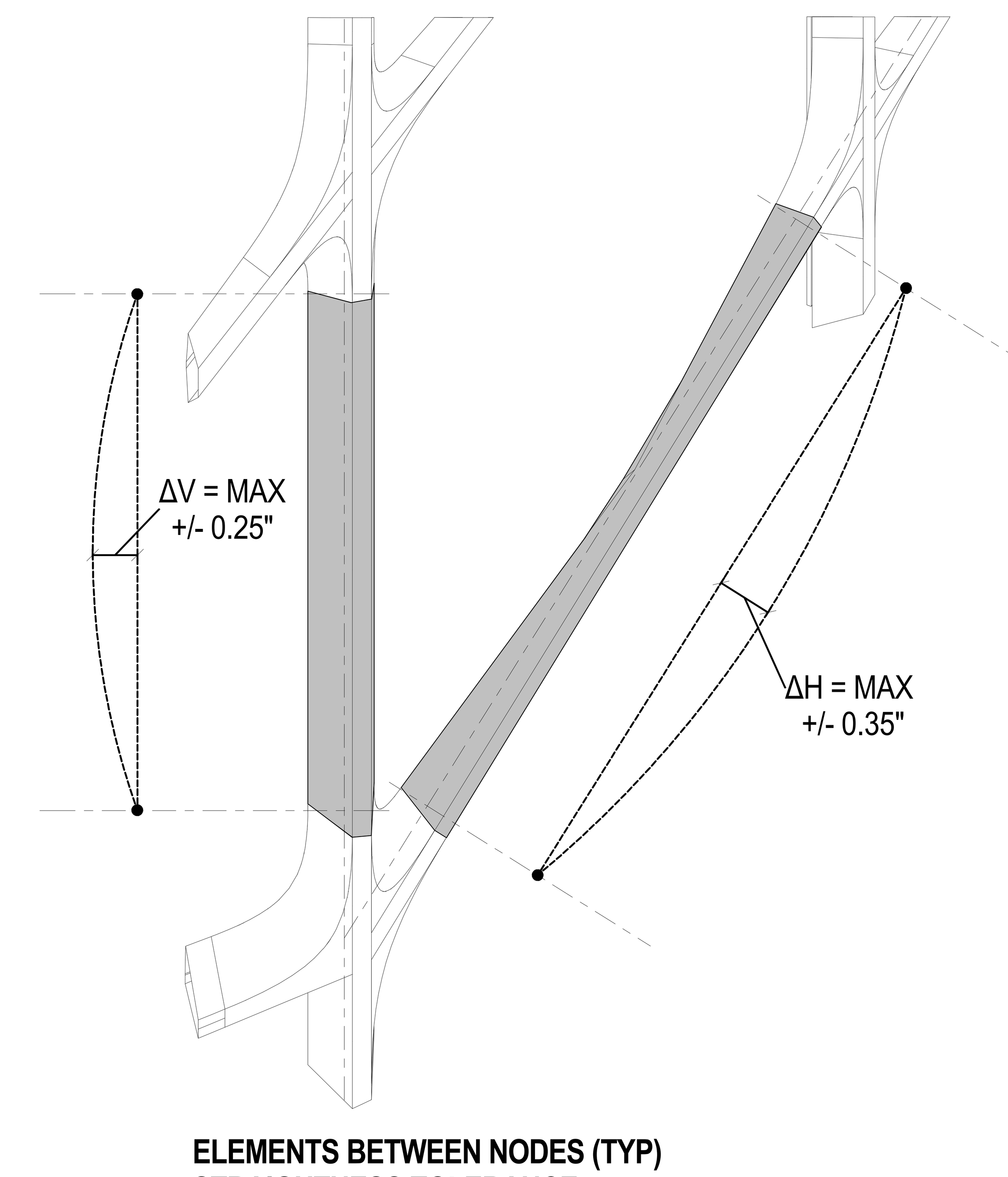
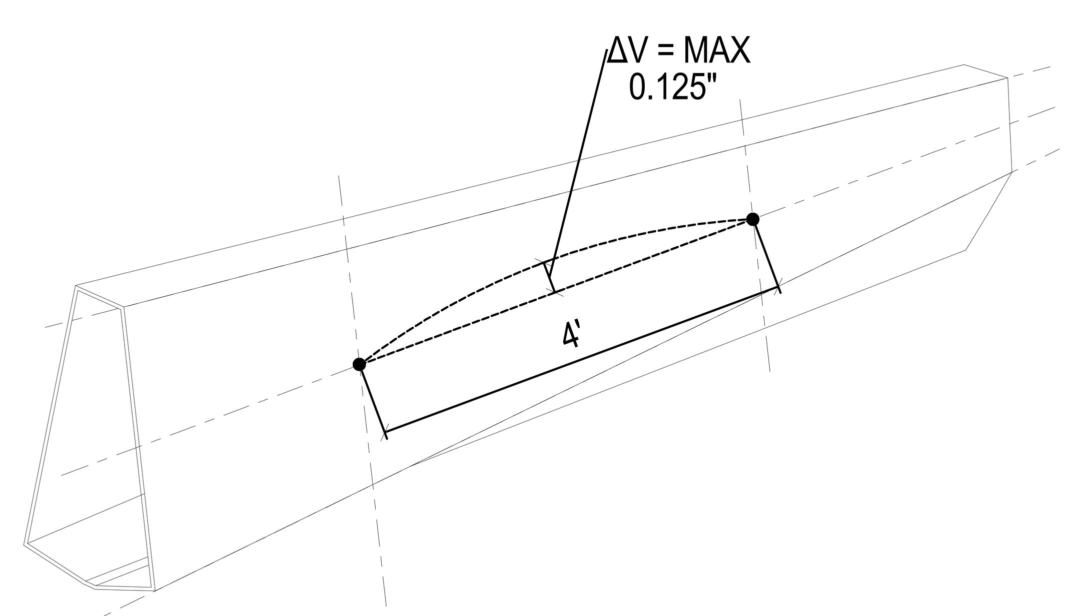


1 SOUTH ELEVATION
3/32" = 1'-0"



3 ELEMENTS BETWEEN NODES (TYP) STRAIGHTNESS TOLERANCE
NOT TO SCALE

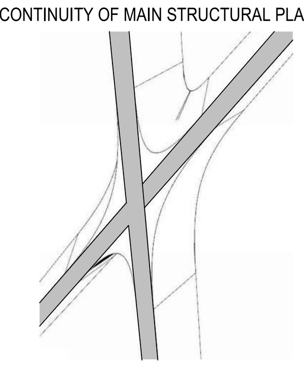


2 LOCAL PANEL TOLERANCE (TYP.)
3/8" = 1'-0"

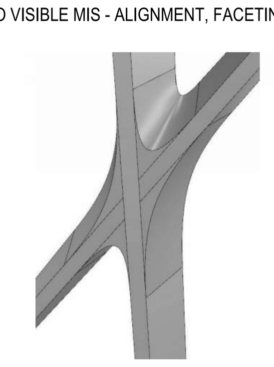
NOTES:

1. INDEPENDENT OF LENGTH TOLERANCE EACH SEGMENT MUST BLENDED IN A SMOOTH AND CONSISTENT MANNER TO ADJACENT NODES TO ENSURE:

a) CONTINUITY OF MAIN STRUCTURAL PLATES



b) NO VISIBLE MIS - ALIGNMENT, FACETING, STEPS OR KINKS OR SHARP CHANGES IN EXTERIOR GEOMETRY



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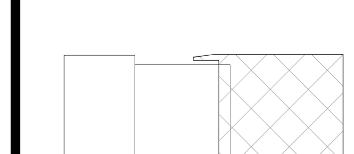
KEY PLAN



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1		ADVANCED PROCUREMENT BID SET	06.16.2014

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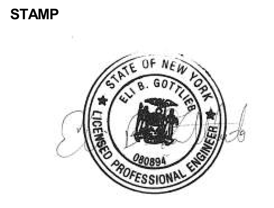

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PROJECT NUMBER
N11318.00

TITLE
N/S WALL_ELEMENTS - STEEL TOLERANCES

DRAWING NO.
S-006.00

B-SCAN NO.
S-006.00

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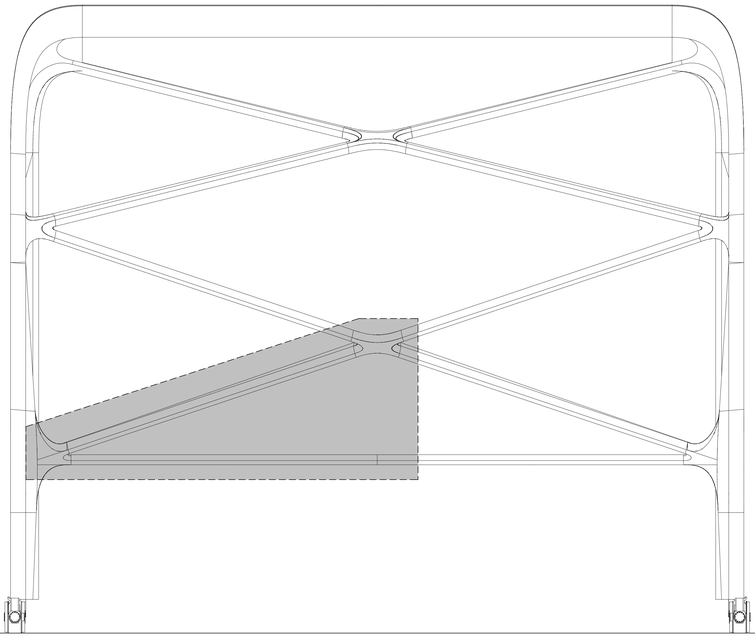
E5971349995 Scan Code



1 **EAST WALL + PORTAL**
3/32" = 1'-0"

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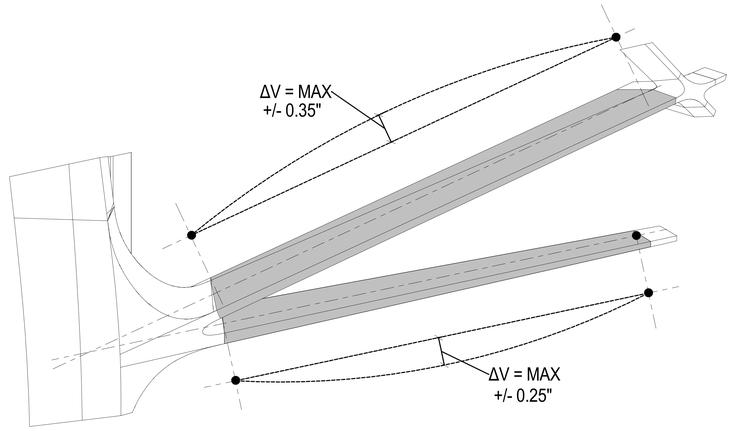

3 **ELEMENTS BETWEEN NODES (TYP.)**
STRAIGHTNESS TOLERANCE
NOT TO SCALE

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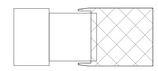

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PROJECT NUMBER
N11318.00

TITLE

EAST WALL_ELEMENTS - STEEL TOLERANCES

DRAWING NO.
S-007.00

B-SCAN NO.
S-007.00

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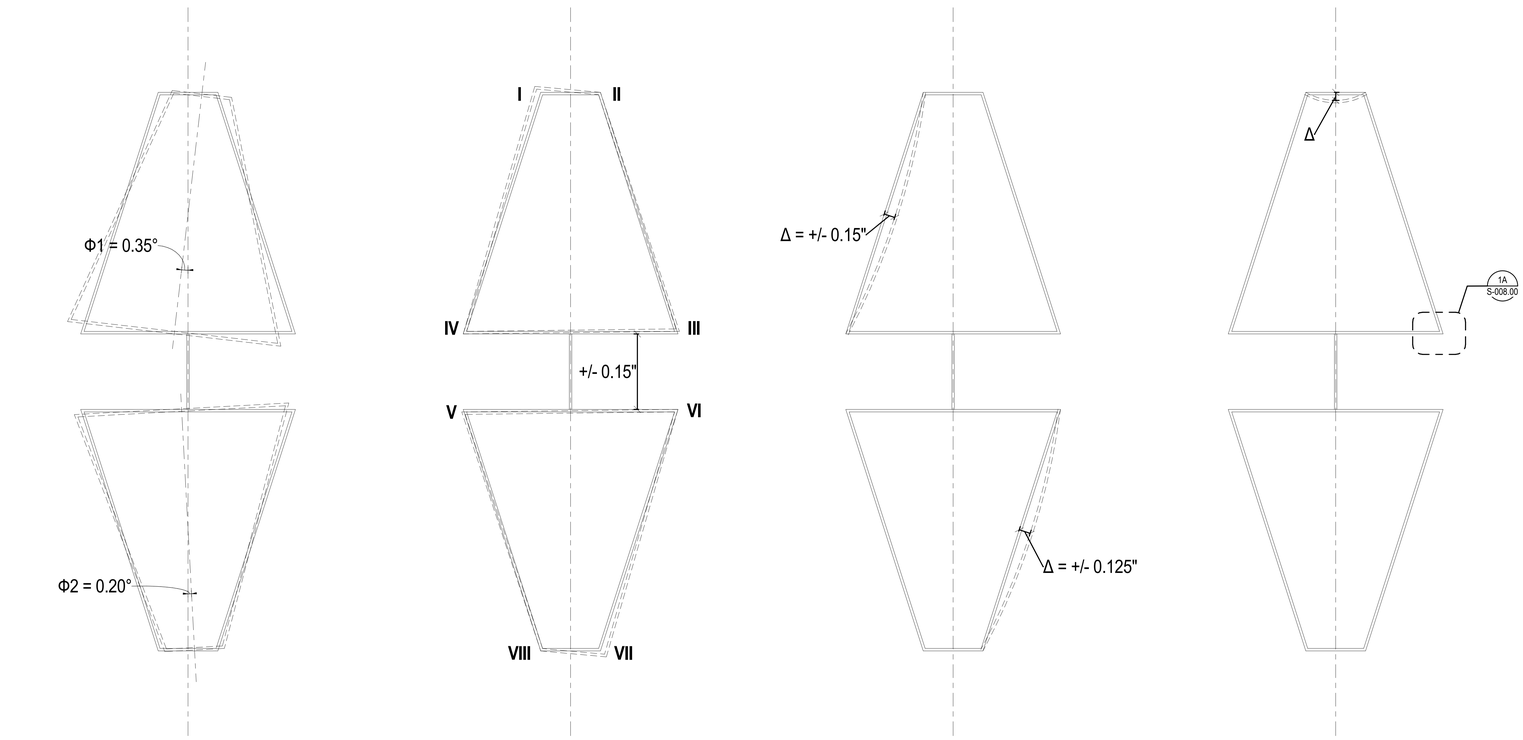
E5041004035 Scan Code



1 N/S WALL MAIN VERTICAL SECTION (TYP.)
1 1/2" = 1'-0"

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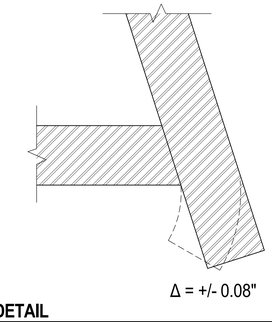
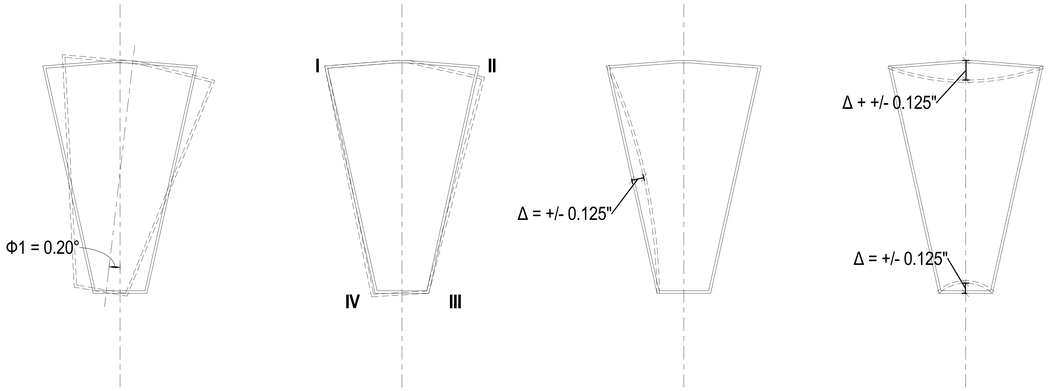
	MAX. INSTALLED TOLERANCE FROM THEORETICAL (in)		
POINT	X	Y	ABSOLUTE
I	0.15	0.15	0.2
II	0.15	0.15	0.2
III	0.15	0.15	0.2
IV	0.15	0.15	0.2
V	0.125	0.125	0.175
VI	0.125	0.125	0.175
VII	0.125	0.125	0.175
VIII	0.125	0.125	0.175

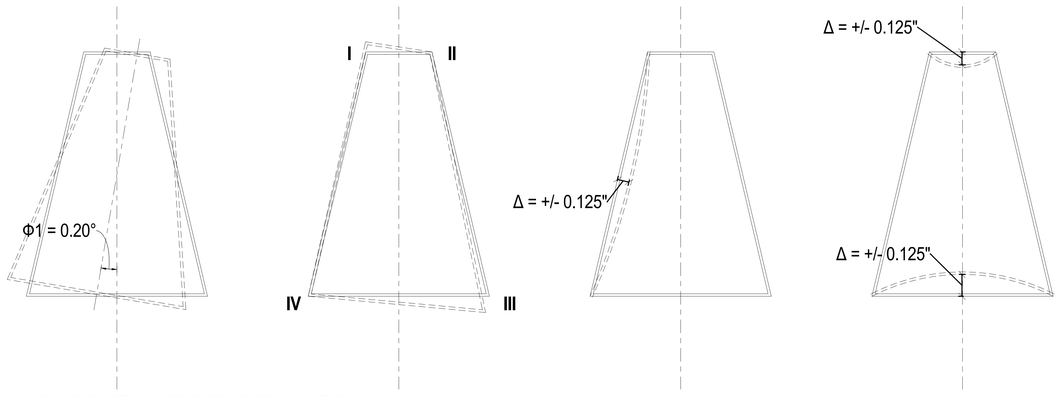


1A DETAIL
12" = 1'-0"



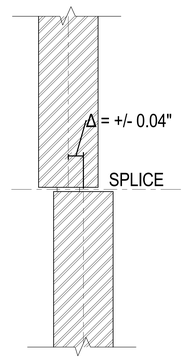
2 N/S WALL DIAGONAL SECTION (TYP.)
1 1/2" = 1'-0"

	MAX. INSTALLED TOLERANCE FROM DIAGONAL (in)		
POINT	X	Y	ABSOLUTE
I	0.125	0.125	0.175
II	0.125	0.125	0.175
III	0.125	0.125	0.175
IV	0.125	0.125	0.175



3 EAST PORTAL_MEMBER SECTIONS (TYP.)
1 1/2" = 1'-0"

	MAX. INSTALLED TOLERANCE FROM DIAGONAL (in)		
POINT	X	Y	ABSOLUTE
I	0.125	0.125	0.175
II	0.125	0.125	0.175
III	0.125	0.125	0.175
IV	0.125	0.125	0.175



4 MAXIMUM SPLICE DEVIATION (TYPICAL)
12" = 1'-0"

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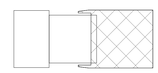

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TITLE
TYPICAL SECTIONS - STEEL TOLERANCES

DRAWING NO.
S-008.00

B-SCAN NO.
S-008.00

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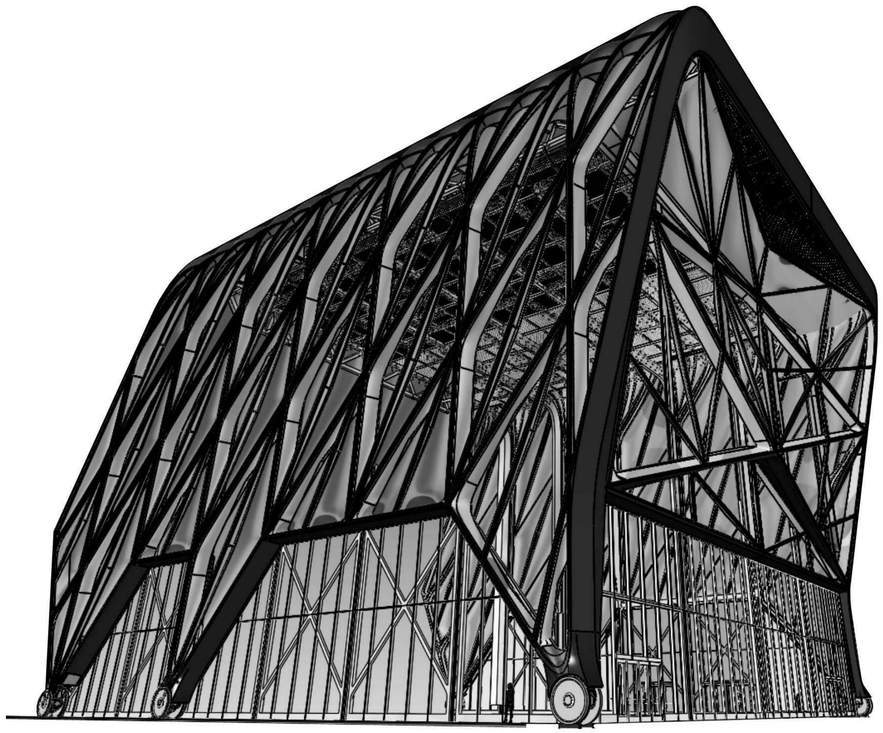
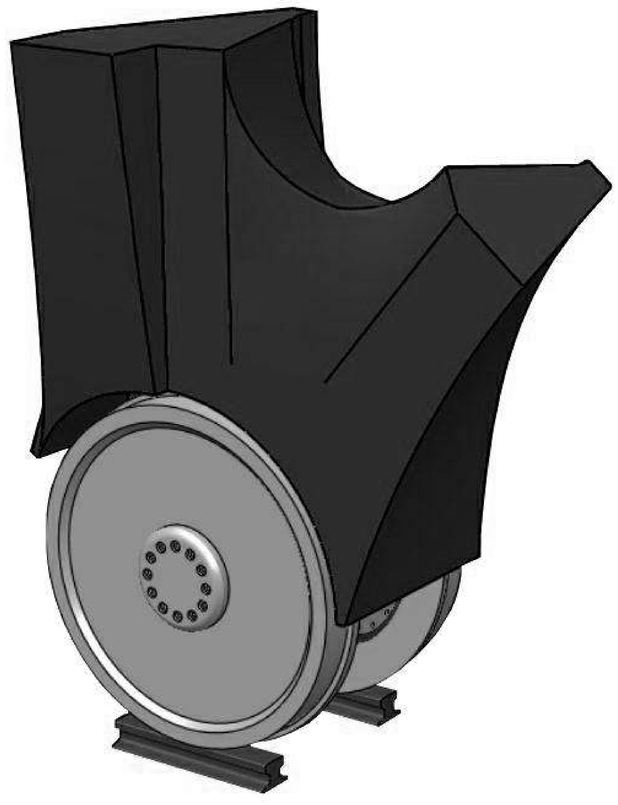
NOTES:

ANY GIVEN POINT MAY BE OUT OF TOLERANCE BY +/- 0.125". PLEASE NOTE HOWEVER THAT NO KINKS OR SHARP CHANGES IN ANGLE ARE PERMITTED AND SURFACES ARE TO BE BLENDED/CONTOURED TO PROVIDE A SMOOTH AND CONTINUOUS ARRENGEMENT.

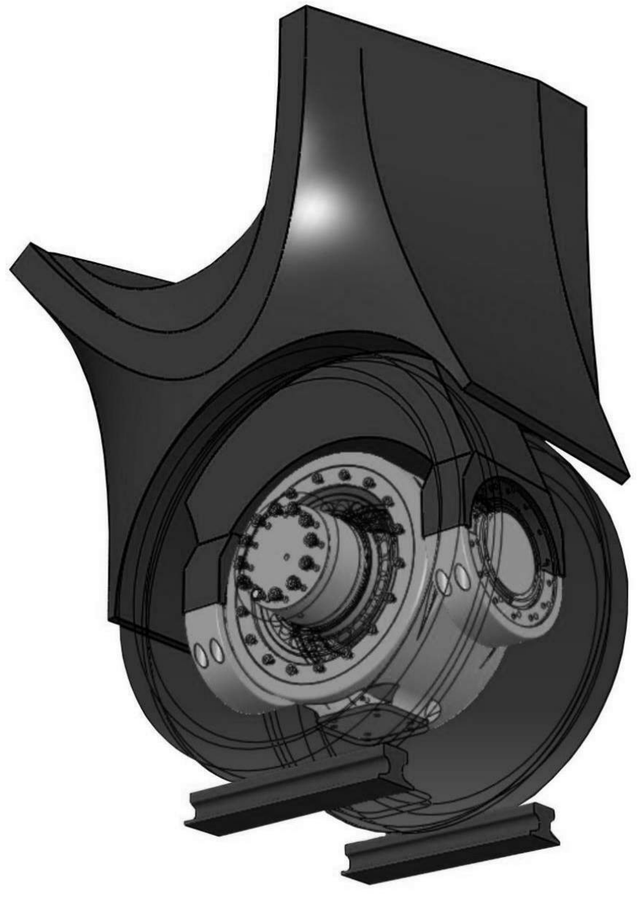


1 **BOGIE - CONTEXT**
1/4" = 1'-0"

2 **BOGIE - LOCATION**
3/16" = 1'-0"



3 **BOGIE - DETAILS**
1/2" = 1'-0"



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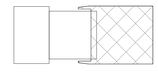
KEY PLAN



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44	33	DOB AMENDMENT 5	04.08.2016
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9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014
1		ADVANCED PROCUREMENT BID SET	06.16.2014

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PROJECT NUMBER
N11318.00

TITLE
STEEL TOLERANCES - BOGIES

DRAWING NO.
S-009.00

B-SCAN NO.
S-009.00

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E525105435 Scan Code

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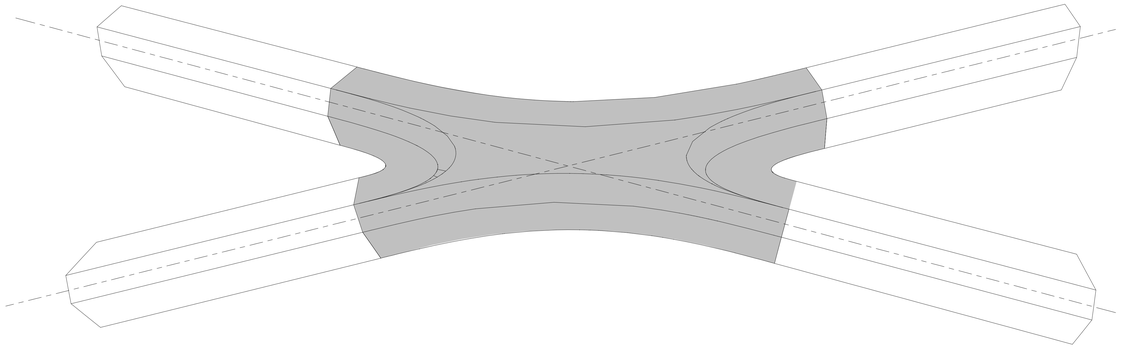
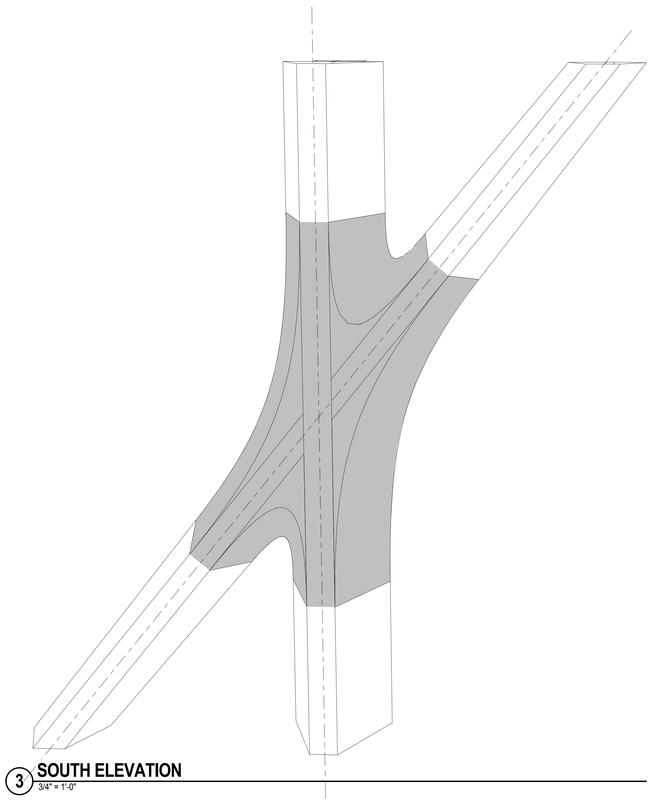
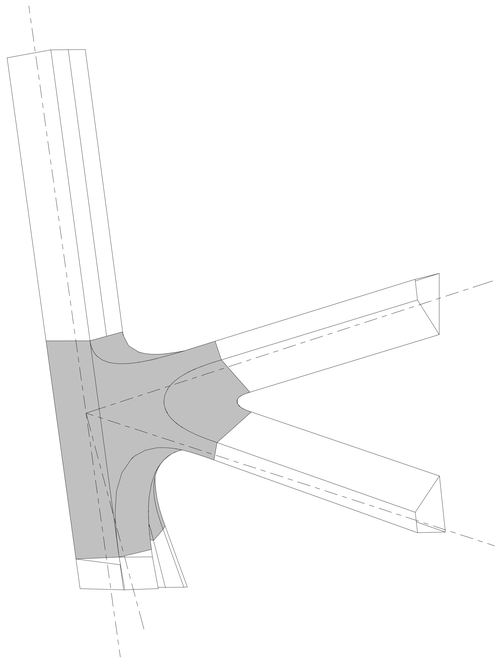


1 ISOMETRIC OF N/S WALL NODE
3/4" = 1'-0"



3 SOUTH ELEVATION
3/4" = 1'-0"



2 ISOMETRIC OF EAST PORTAL NODE
1/2" = 1'-0"

NOTES - ALL TYPICAL:

FOR EXPOSED NODES AS PART OF THE SHED STEELWORK ANY GIVEN POINT MAY BE OUT OF TOLERANCE BY +/- 0.125". PLEASE NOTE HOWEVER THAT NO KINKS OR SHARP CHANGES IN ANGLE ARE PERMITTED AND SURFACES ARE TO BE BLENDE/CONTOURED TO PROVIDE A SMOOTH AND CONTINUOUS ARRENGEMENT. ALIGNMENT WITH ADJASCENT MEMBERS +/- 0.04" AT SPLINES PER S-008.

Damian Titus
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APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
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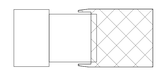

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TITLE
STEEL TOLERANCES - NODES

DRAWING NO.
S-010.00

B-SCAN NO.
S-010.00

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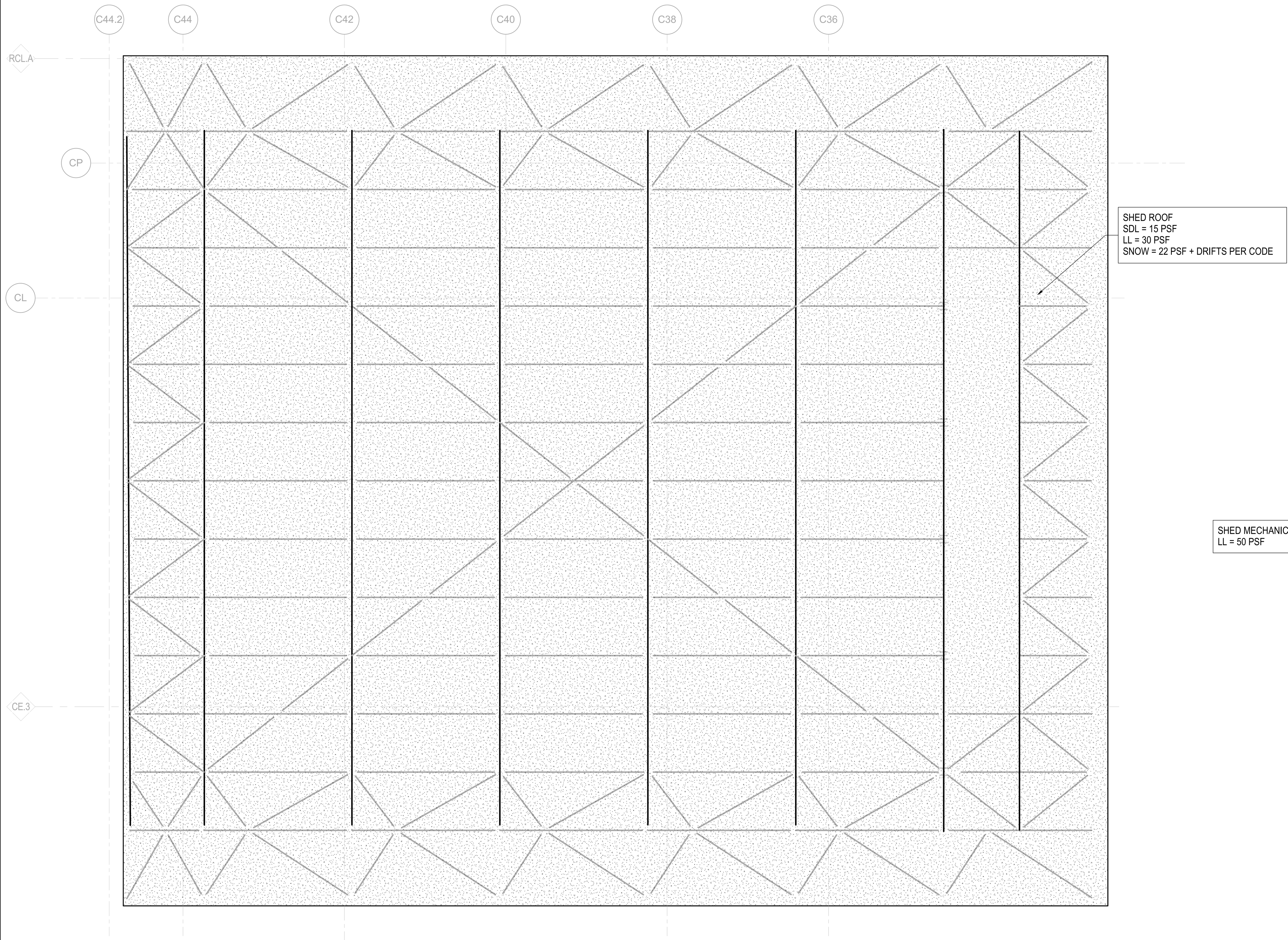
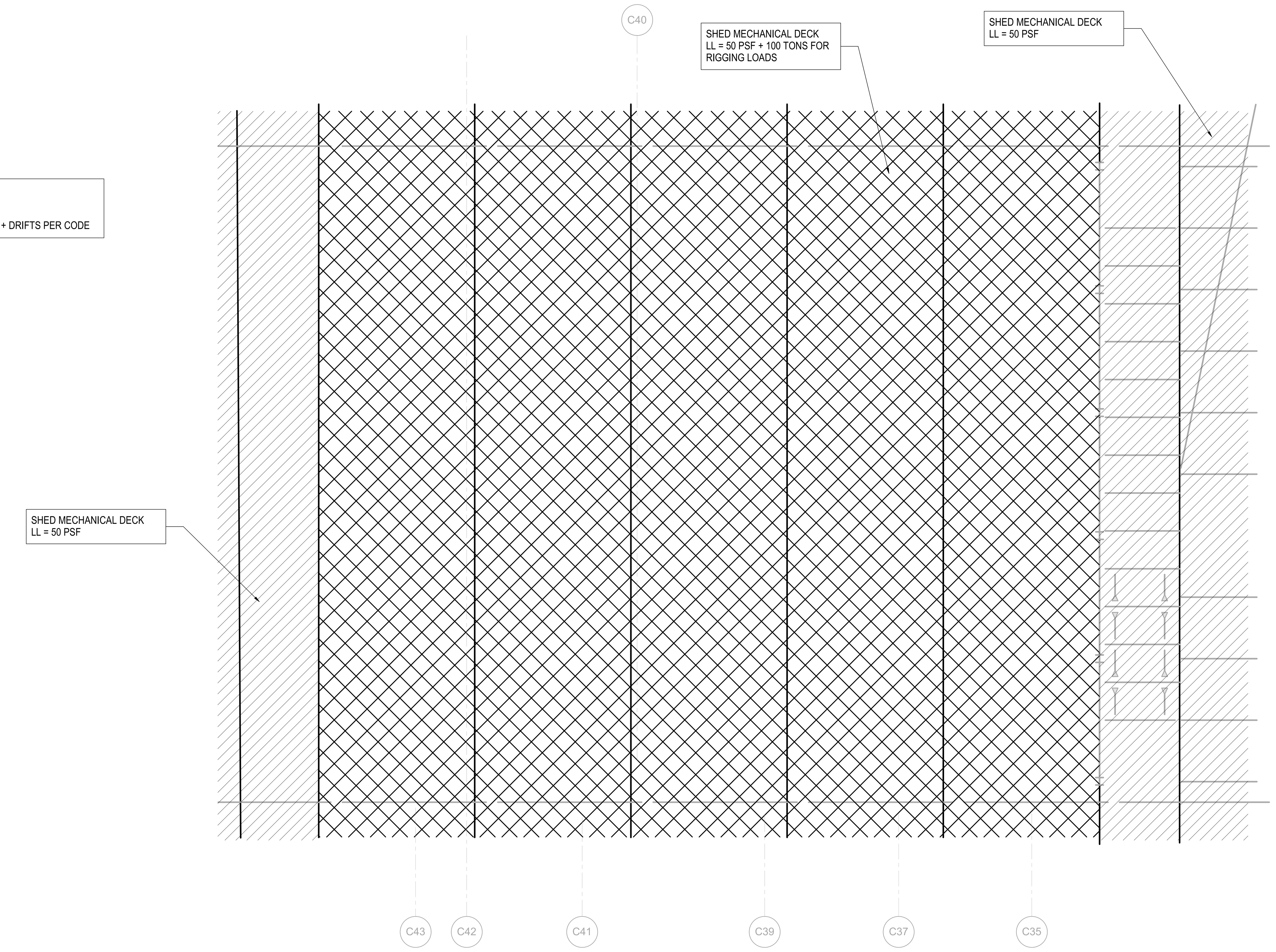


1 LOADING DIAGRAMS - SHED ROOF

1" = 10'-0"



3 LOADING DIAGRAMS - SHED MECHANICAL DECK

1" = 10'-0"

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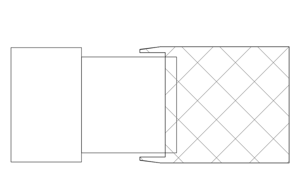

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ELI B. GOTTLIEB
080894
LICENSED PROFESSIONAL ENGINEER

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PROJECT NUMBER
N11318.00

TITLE
LOADING DIAGRAMS III

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
S-032.00

B-SCAN NO.
S-032.00

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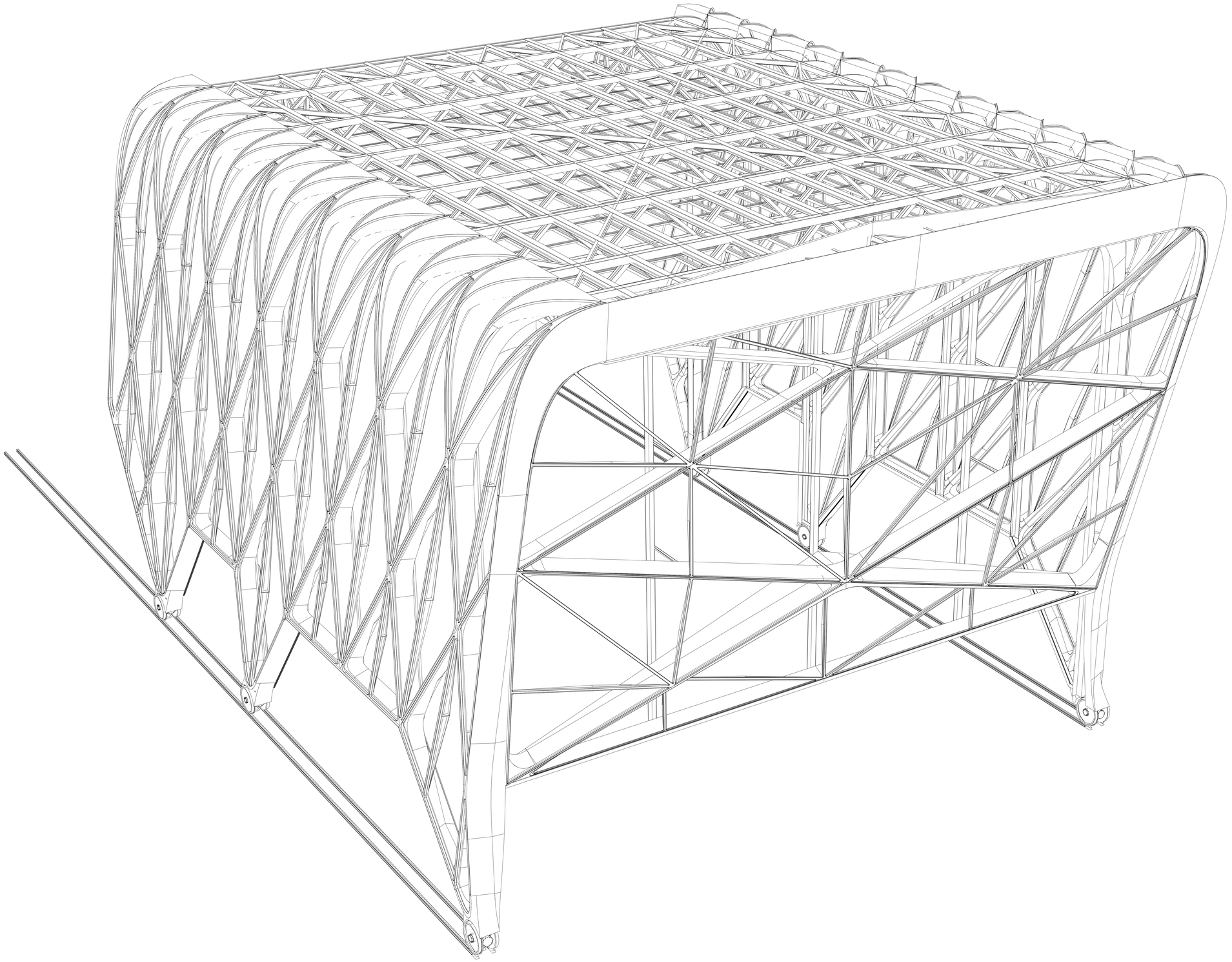

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APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/13/2016
NYC Development Hub

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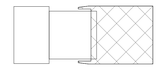

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AXONOMETRIC - DEPLOYED SHED (SE)

DRAWING NO.
S-052.00

B-SCAN NO.
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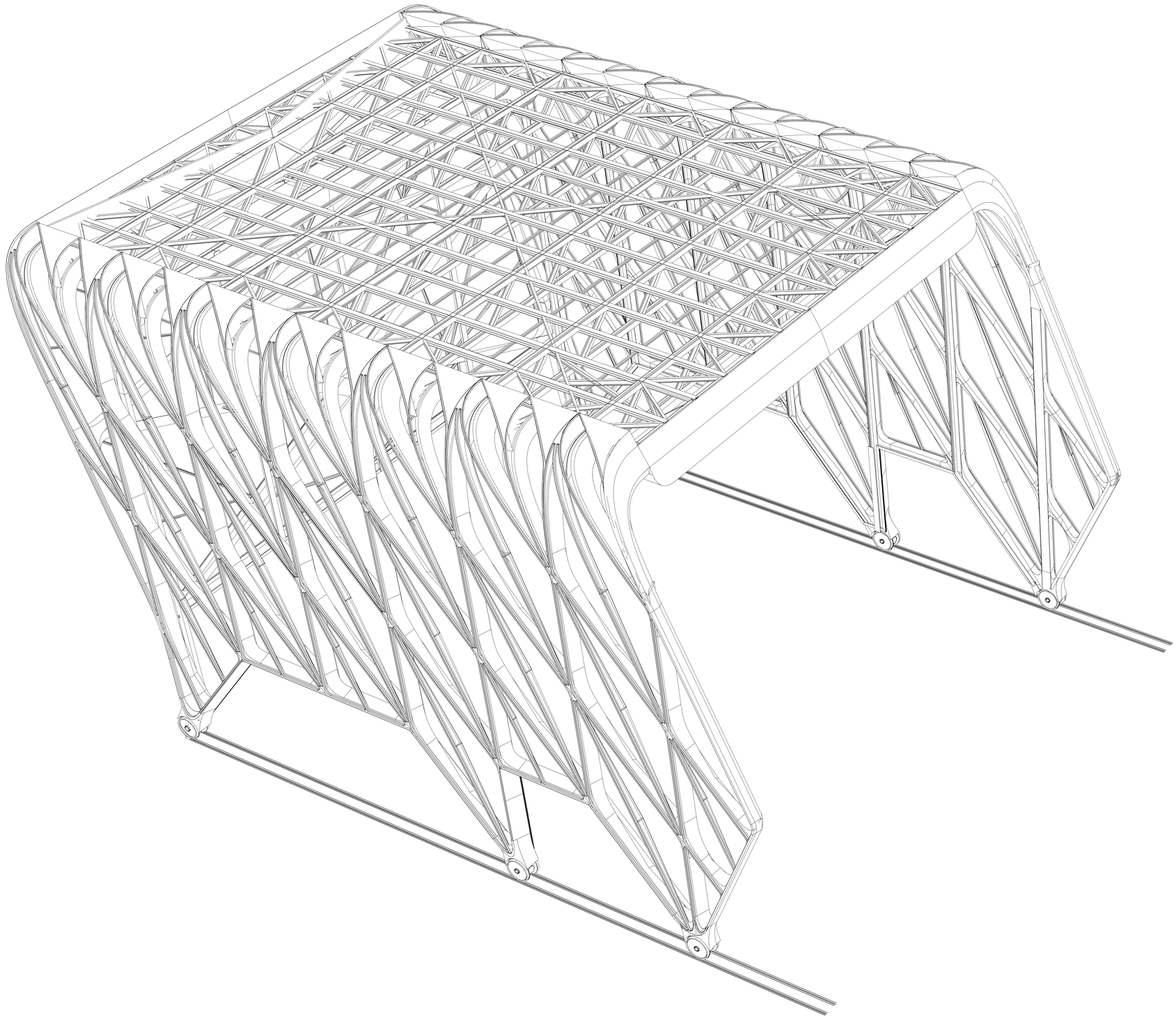

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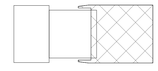

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AXONOMETRIC - DEPLOYED SHED (NW)

DRAWING NO.
S-053.00

B-SCAN NO.

S-053.00

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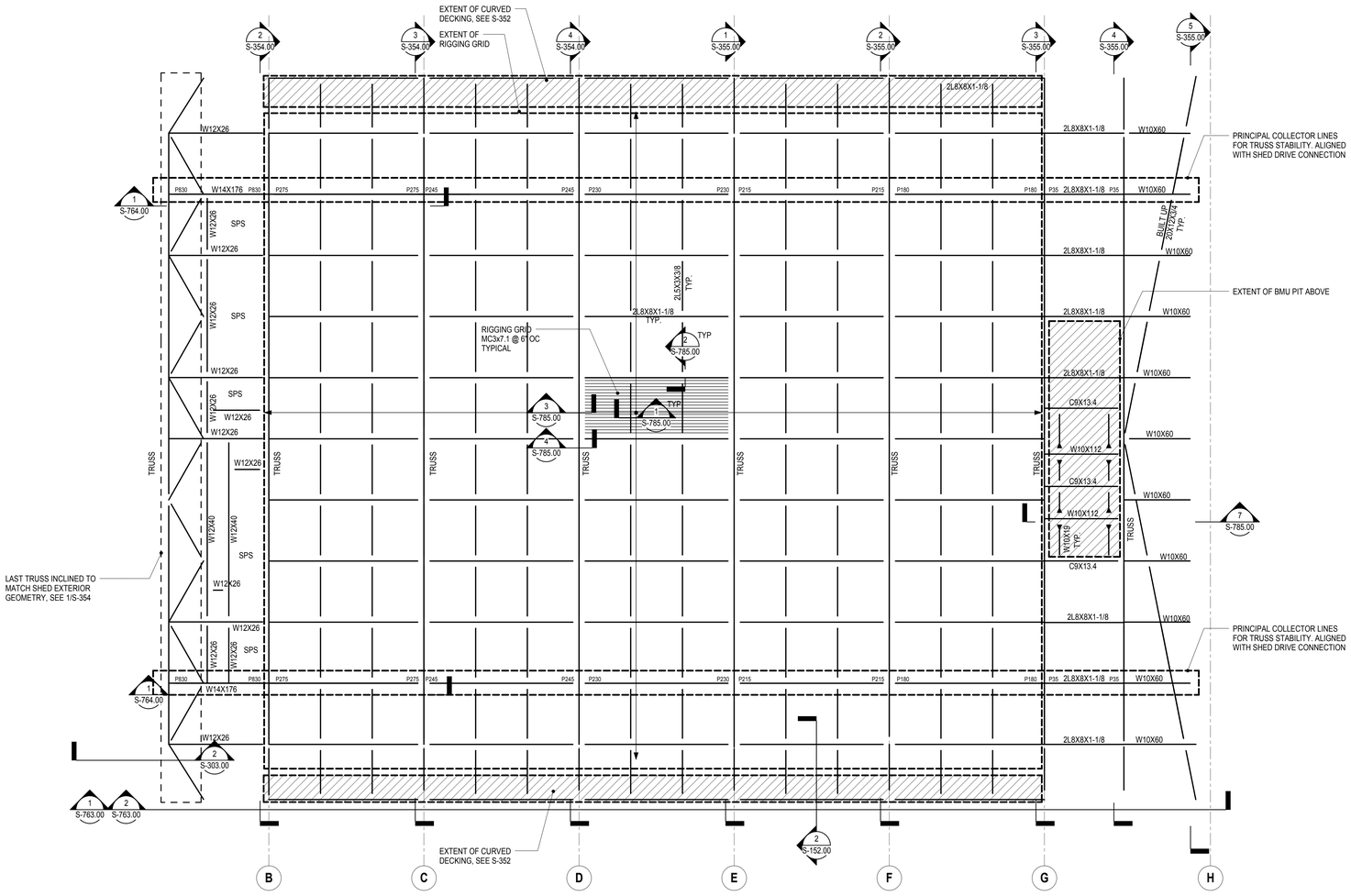

1 FRAMING PLAN, DEPLOYED SHED - MECHANICAL DECK

1/8" = 1'-0"

SPS, OR SIMILAR APPROVED, DECK SYSTEM TO SPAN BETWEEN THE STEEL FRAMING AS INDICATED. DECK SYSTEM TO BE NO GREATER THAN 33 MM THICK, PROVIDE A 2-HOUR FIRE RATING AND SUPPORT A LIVE LOAD OF 50 PSF (UNFACTORED) AND SATISFY DEFLECTION CRITERIA OF L/360. FOR DESIGN PURPOSES A SPS PANEL 4-25-4 WAS ADOPTED. SUBJECT TO APPROVAL BY AOR AND EOR.

2 CURVED DOUBLE ANGLES ON NORTH AND SOUTH SIDES

1" = 1'-0"

REFER TO ARCHITECTURAL MODEL AND DRAWINGS.

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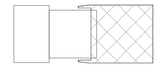

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44	33	DOB AMENDMENT 5	04.08.2016
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10	4	100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014
1		ADVANCED PROCUREMENT BID SET	06.16.2014

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STATE OF NEW YORK
TIA KITRA CUTLER
LICENSED PROFESSIONAL ENGINEER

DRAWN BY Author
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PROJECT NUMBER
N11318.00

TITLE

FRAMING PLAN, DEPLOYED SHED - MECHANICAL DECK

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
S-152.00

B-SCAN NO.
S-152.00

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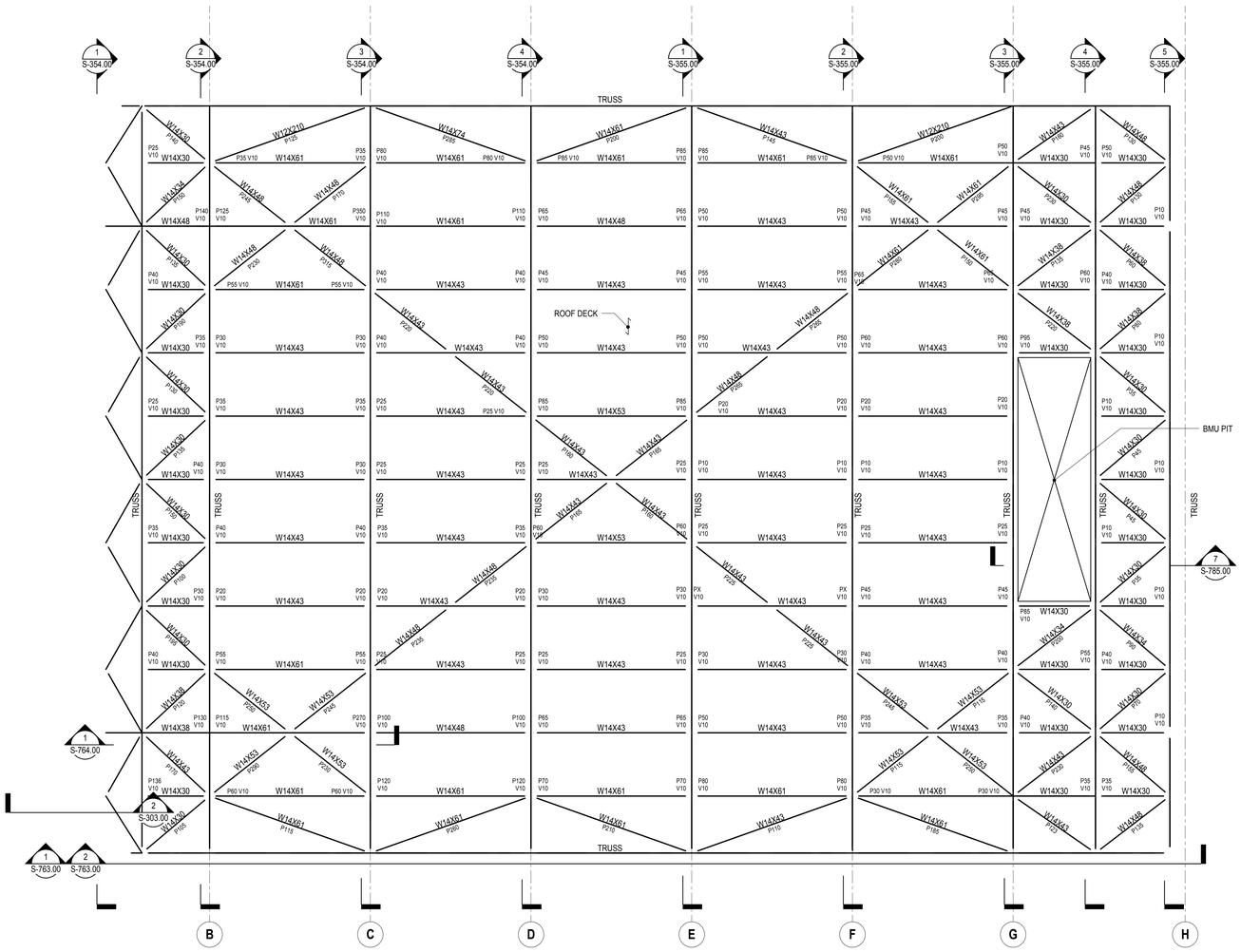
E290295953US Scan Code



1 FRAMING PLAN, DEPLOYED SHED - ROOF

1/8" = 1'-0"

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NOTES:

1. CONTRACTOR MAY PROPOSE, SUBJECT TO AGREEMENT WITH ARCHITECT AND SER, TO STANDARDIZE SECTION DESIGNATIONS.

2. WHERE W14X30S ARE SHOWN IT IS ANTICIPATED CONNECTIONS WILL BE SHOP WELDED TO CREATE A TRANSPORTABLE FRAME. A BOLTED CONNECTION MAY BE PROPOSED AND REQUIRE A HEAVIER SECTION

NOTES: SHED SHOWN IN FULLY DEPLOYED POSITION

REFER TO ARCHITECTURAL MODEL AND DRAWINGS.

Damian Titus
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Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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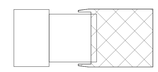

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FRAMING PLAN, DEPLOYED SHED - ROOF

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S-153.00

B-SCAN NO.
S-153.00

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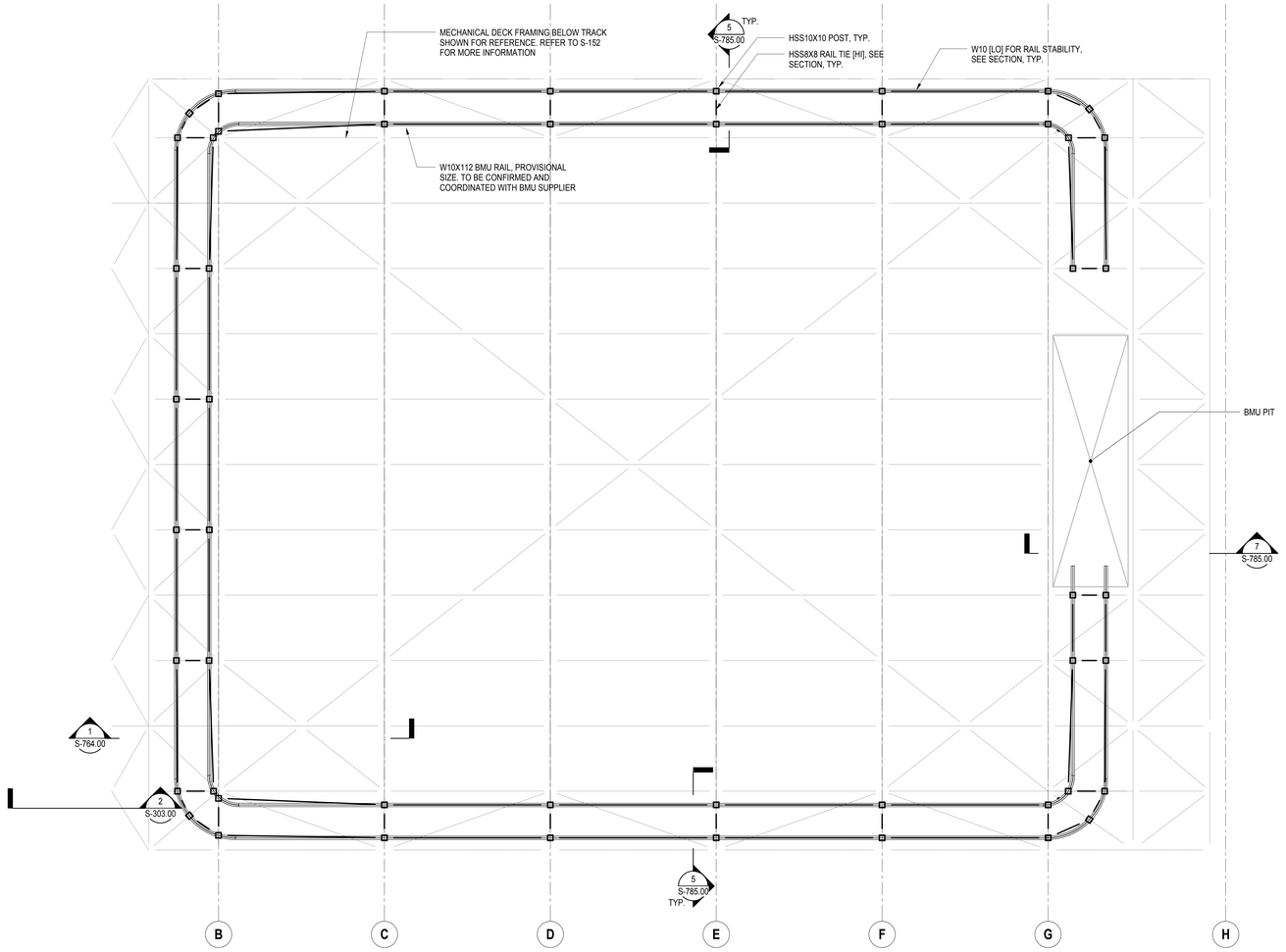

1 FRAMING PLAN, DEPLOYED SHED - ROOF

1/8" = 1'-0"

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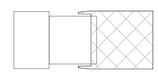

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PROJECT NUMBER
N11318.00

TITLE

FRAMING PLAN, DEPLOYED SHED - BMU TRACK

Damian Titus
Buildings.nyc
APPROVED
Under Directive 2 of 1975
ARCHITECTURAL PLAN
Date: 07/25/2016
NYC Development Hub

DRAWING NO.

S-154.00

B-SCAN NO.

S-154.00

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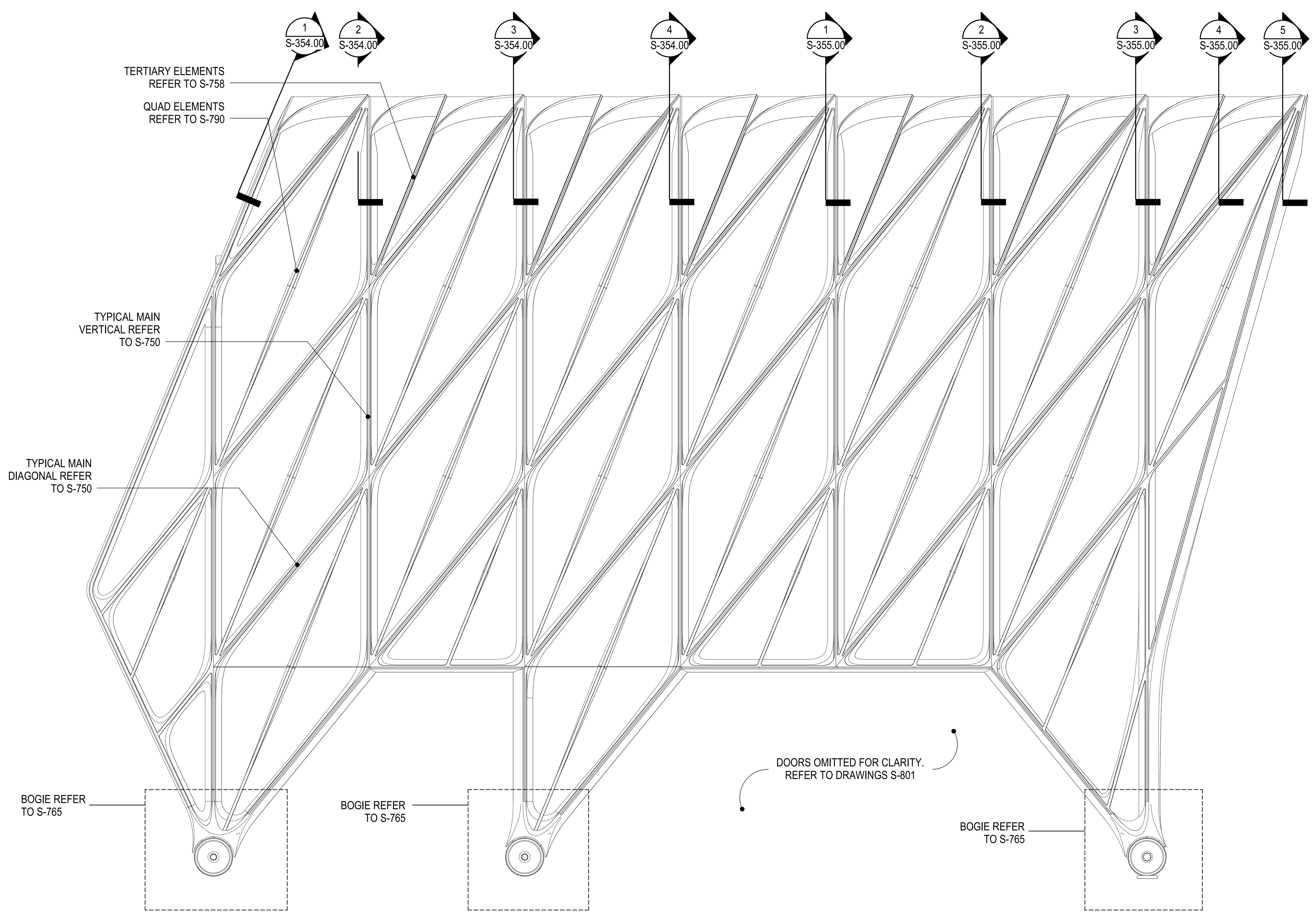
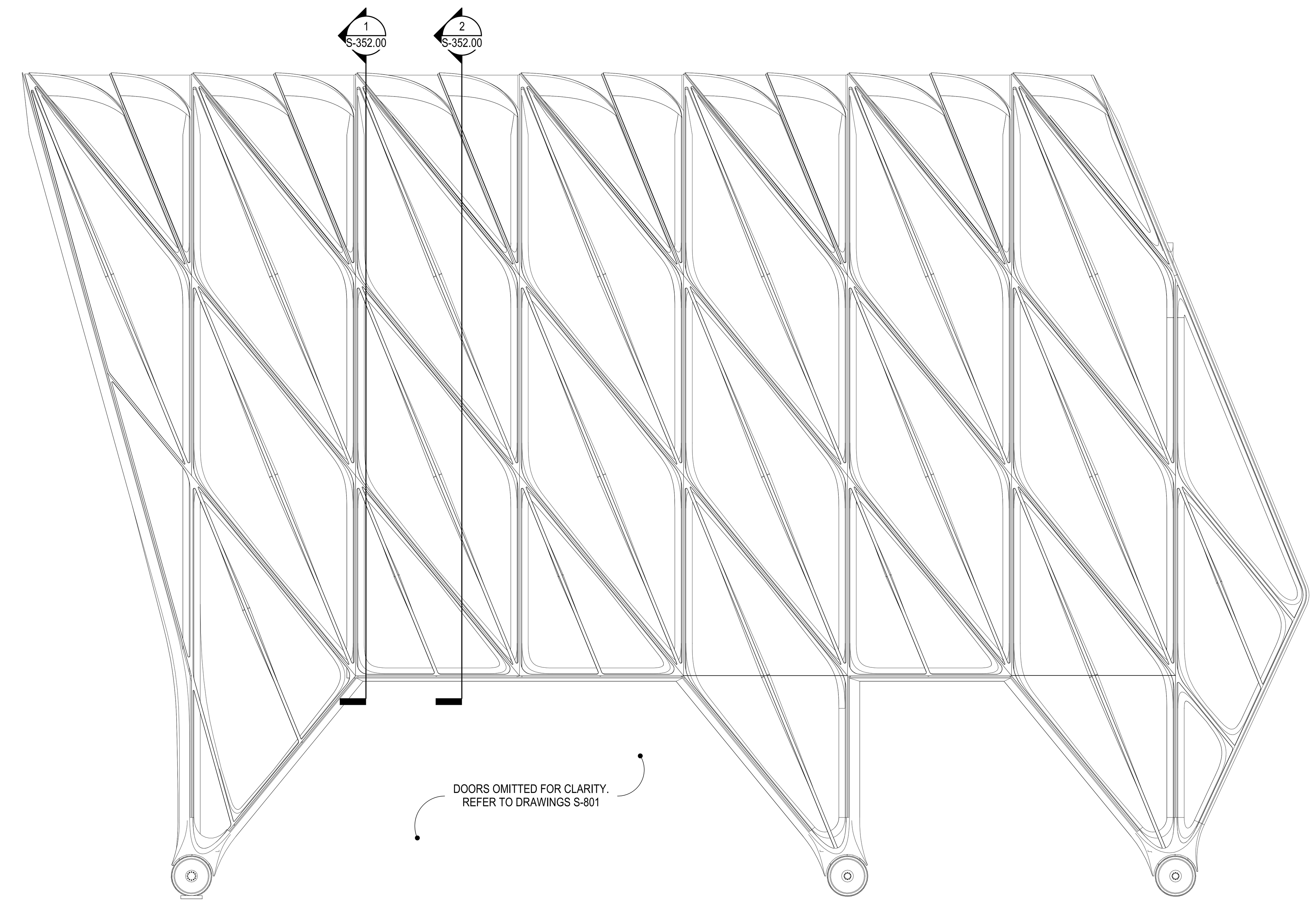
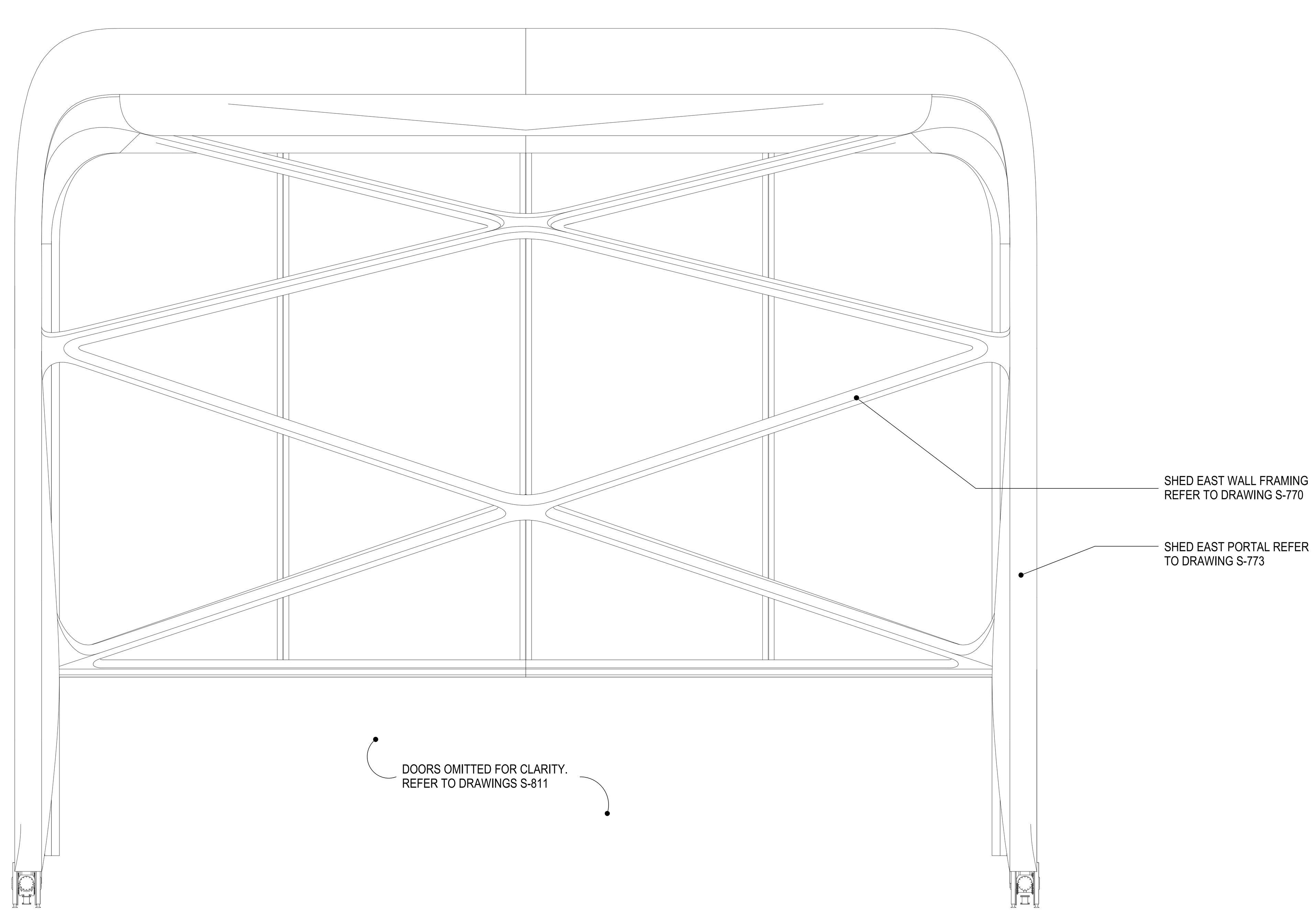


1 SOUTH ELEVATION
3/32" = 1'-0"



2 NORTH ELEVATION
3/32" = 1'-0"



3 EAST ELEVATION
3/32" = 1'-0"

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AMENDED APPLICATION
Date: 07/15/2016
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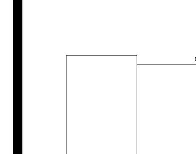

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PROJECT NUMBER
N11318.00

TITLE

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B-SCAN NO.
S-351.00

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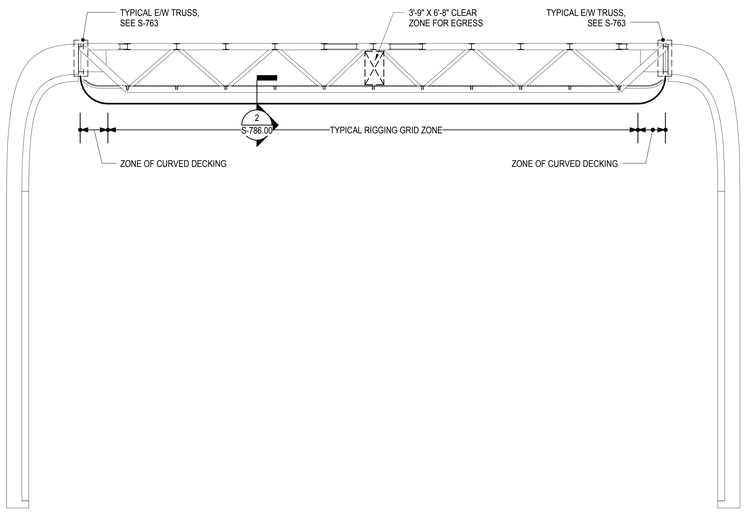
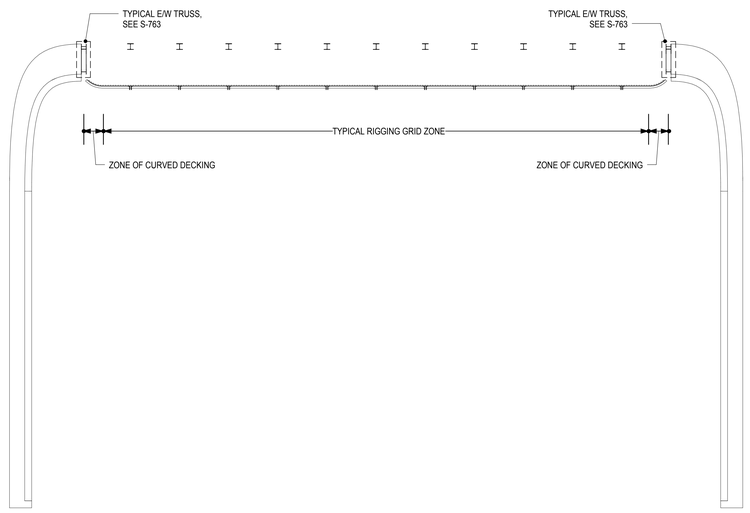


1 TYPICAL SECTION AT TRUSSES
3/32" = 1'-0"



2 TYPICAL SECTION BETWEEN TRUSSES
3/32" = 1'-0"

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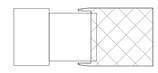

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PROJECT NUMBER
N11318.00

TITLE
SECTIONS, DEPLOYED SHED

DRAWING NO.
S-352.00

B-SCAN NO.
S-352.00

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DEPT OF BLDGS 421302297 Job Number
B3752010587 Scan Code

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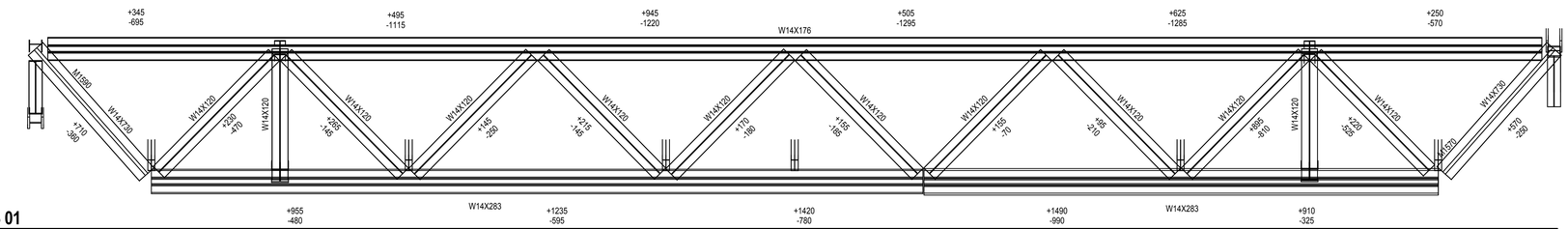
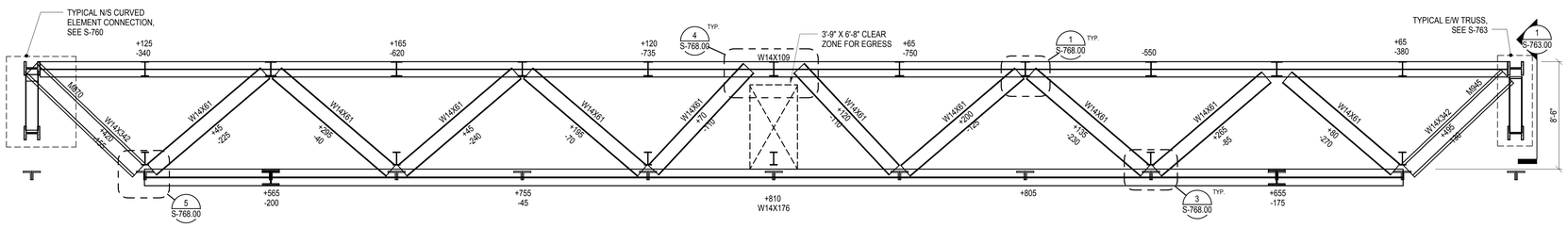
FOR TYPICAL NORTH/SOUTH TRUSS DETAILS REFER TO DRAWING S-786



1 TRUSS 01
1/4" = 1'-0"



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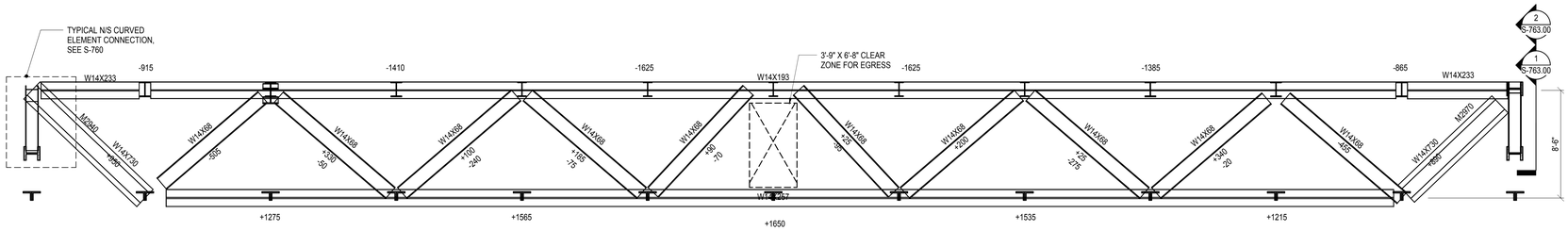

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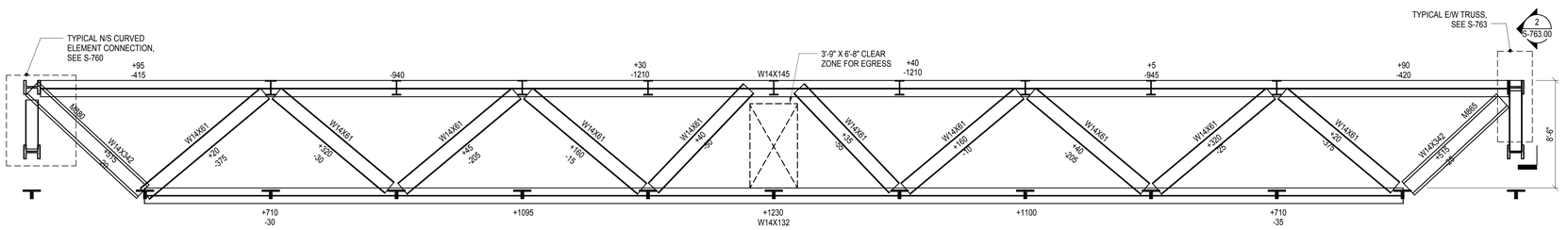
1/4" = 1'-0"



4 TRUSS 04
1/4" = 1'-0"

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ARCHITECTURAL EVALUATION
Date: 07/15/2016
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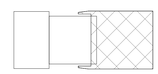
KEY PLAN



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E5374506980 Scan Code

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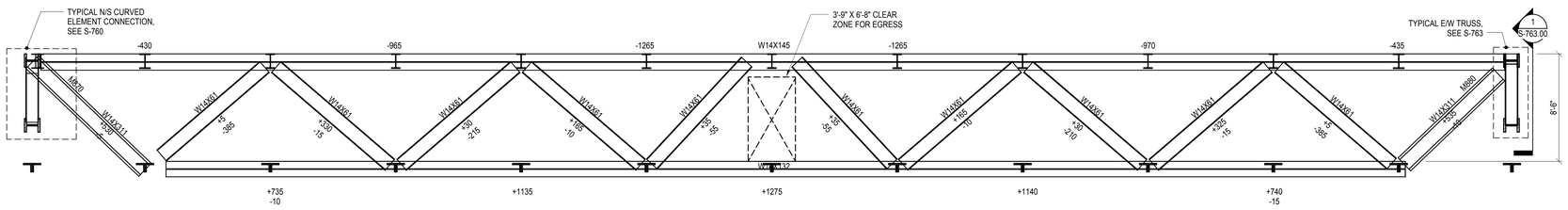

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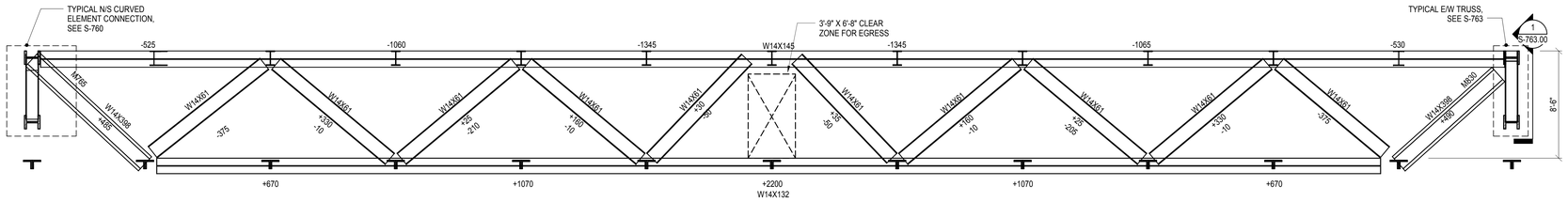
1/4" = 1'-0"



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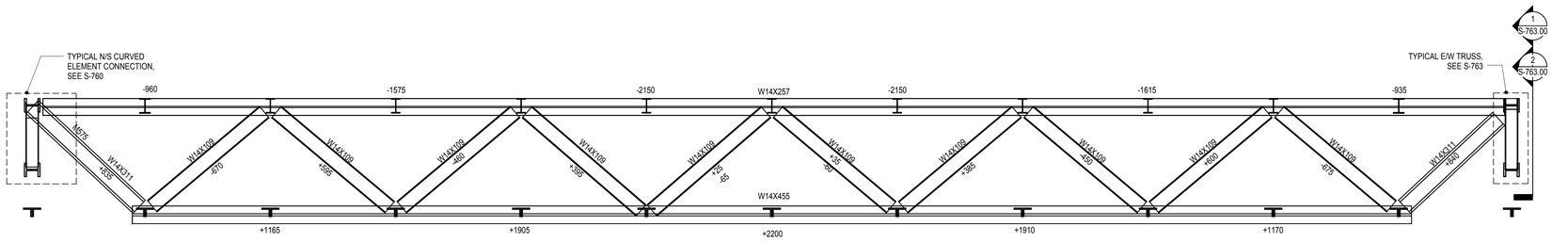
1/4" = 1'-0"



3 TRUSS 07
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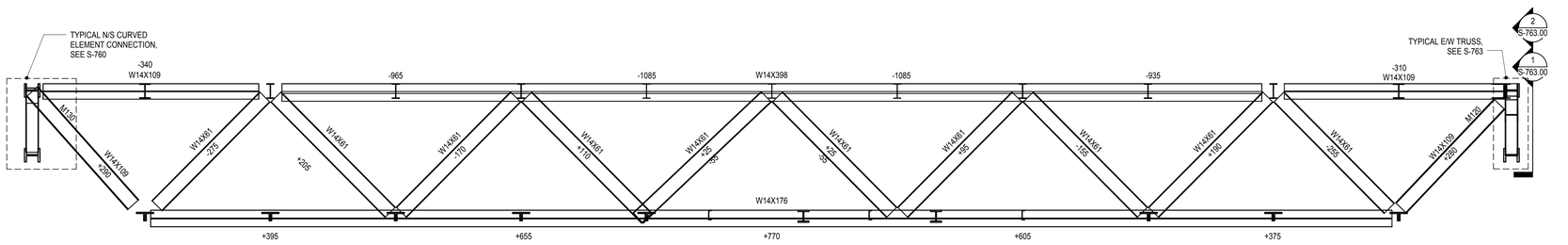
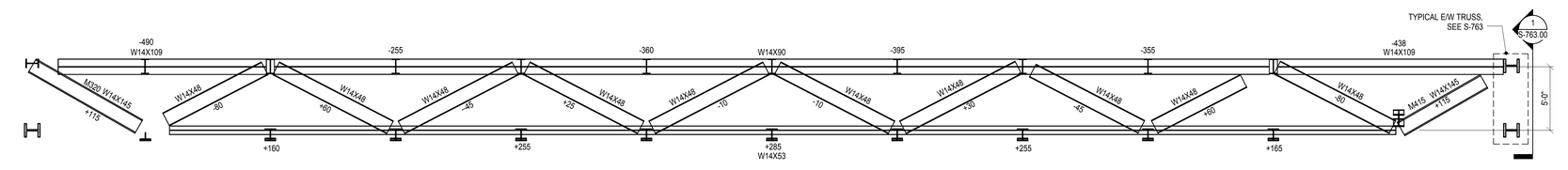


4 TRUSS 08
1/4" = 1'-0"



5 TRUSS 09
1/4" = 1'-0"

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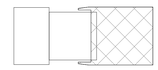
KEY PLAN



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B5666002324 Scan Code

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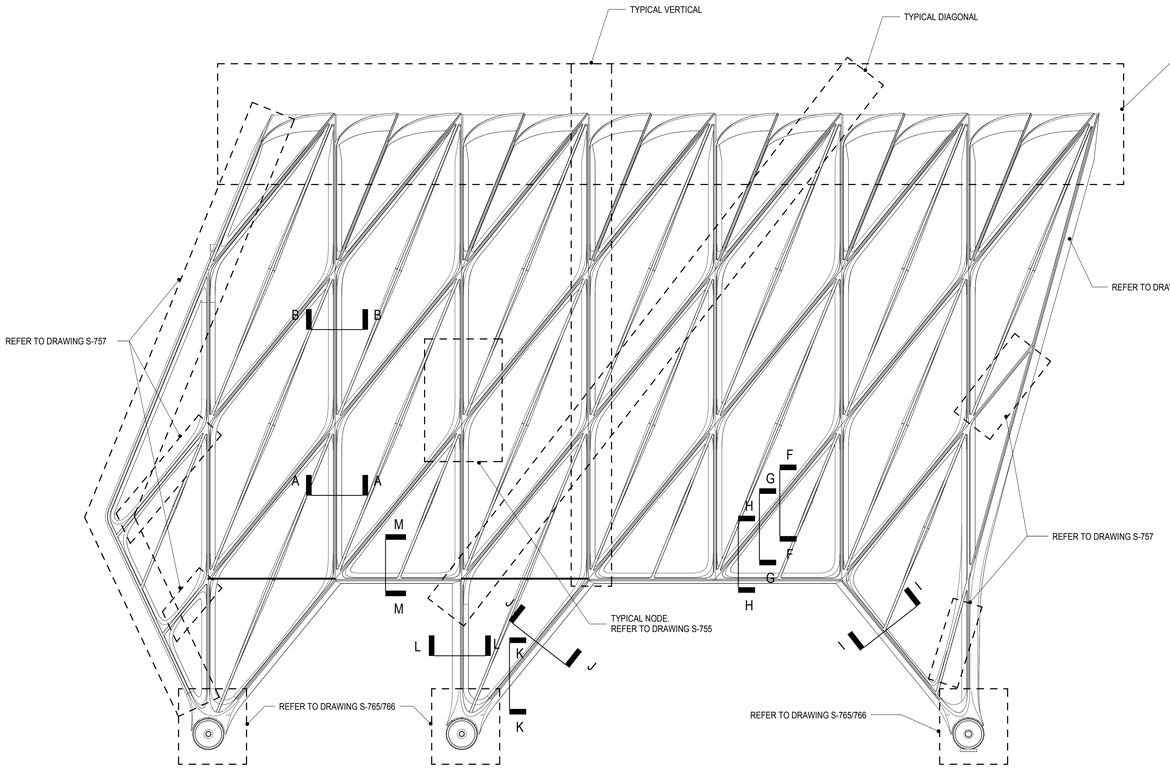
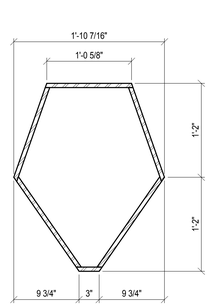
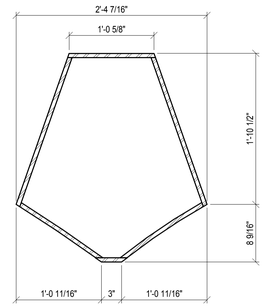


1 SOUTH ELEVATION
3/32" = 1'-0"



SECTION F-F



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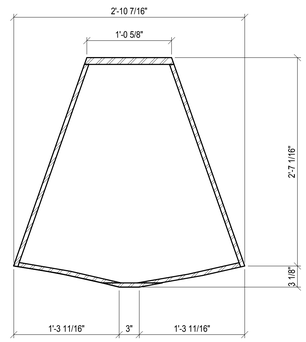

SECTION H-H

5 TYPICAL DIAGONAL SECTION DIAPHRAGM
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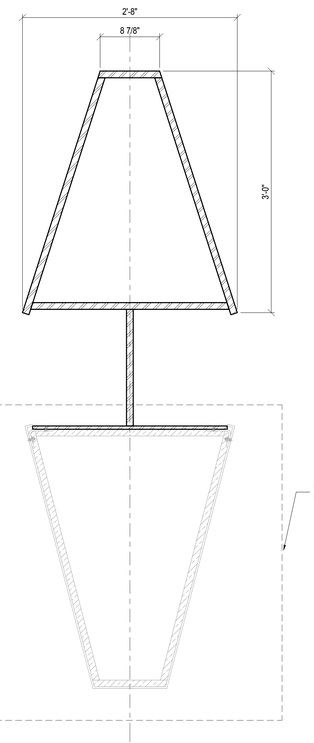

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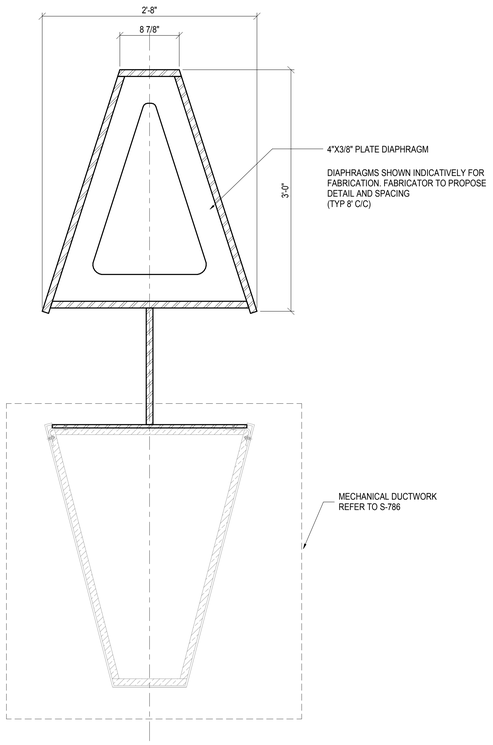

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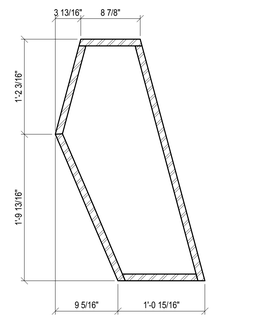

6 SECTION I-I
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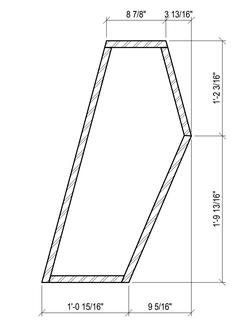

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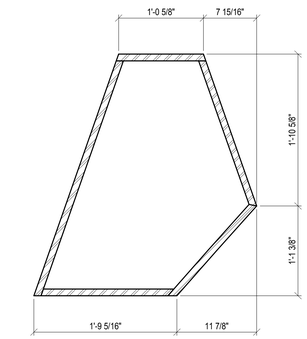

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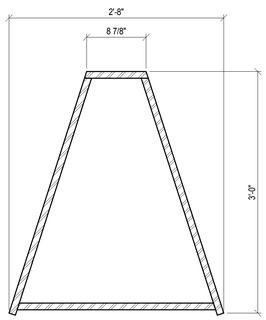

9 SECTION L-L
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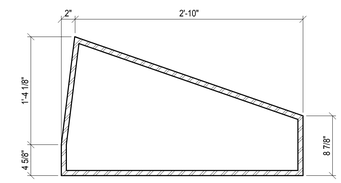

10 SECTION M-M
1 1/2" = 1'-0"

NOTES:REFER TO DRAWING S-751 FOR TYPICAL PLATE THICKNESSES
NORTH WALL SIMILAR
REFER TO S-753 & S-754 FOR WELD DETAILS

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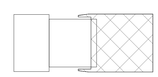

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DETAILS, DEPLOYED SHED NORTH/SOUTH TYPICAL WALL SECTIONS

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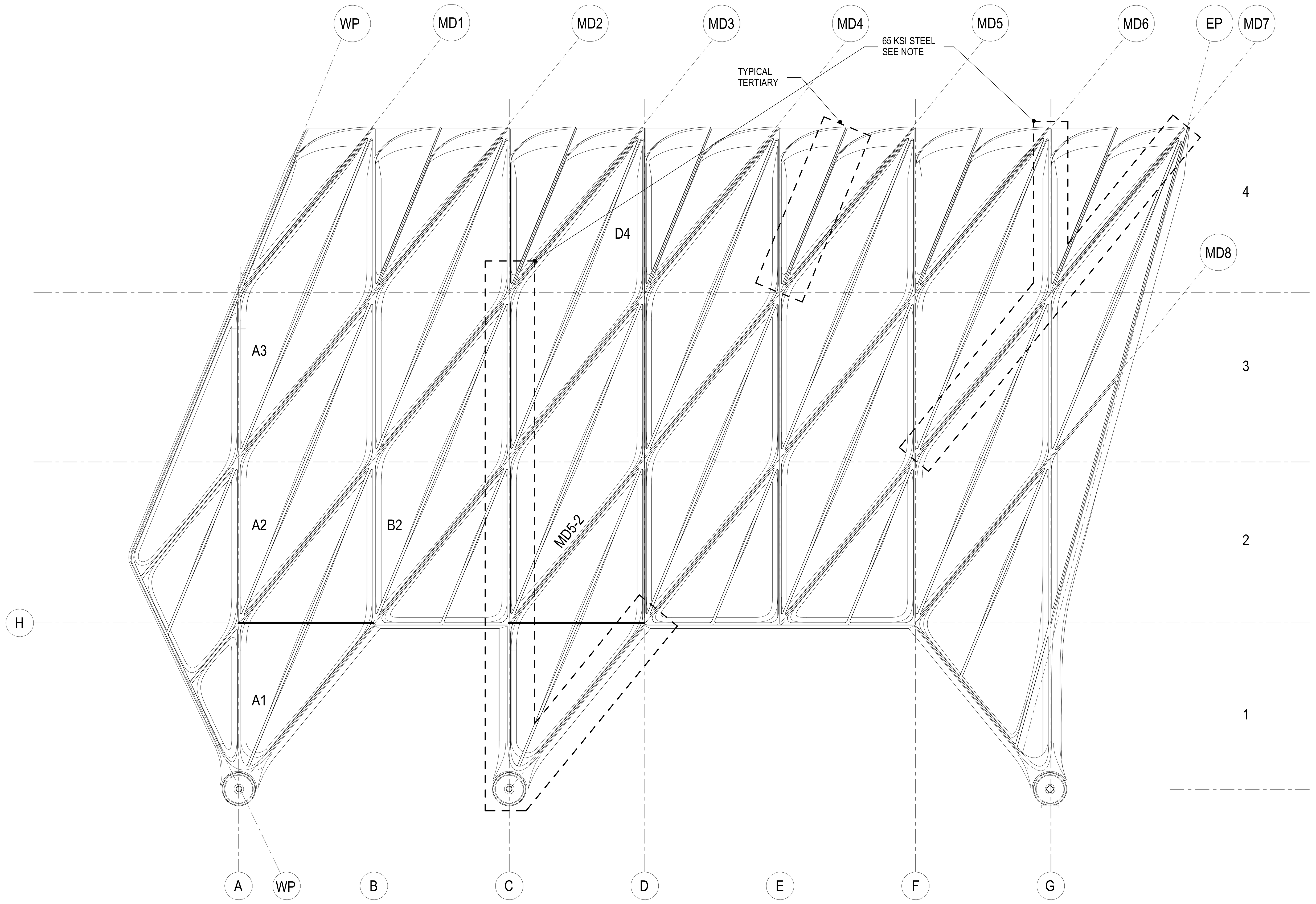

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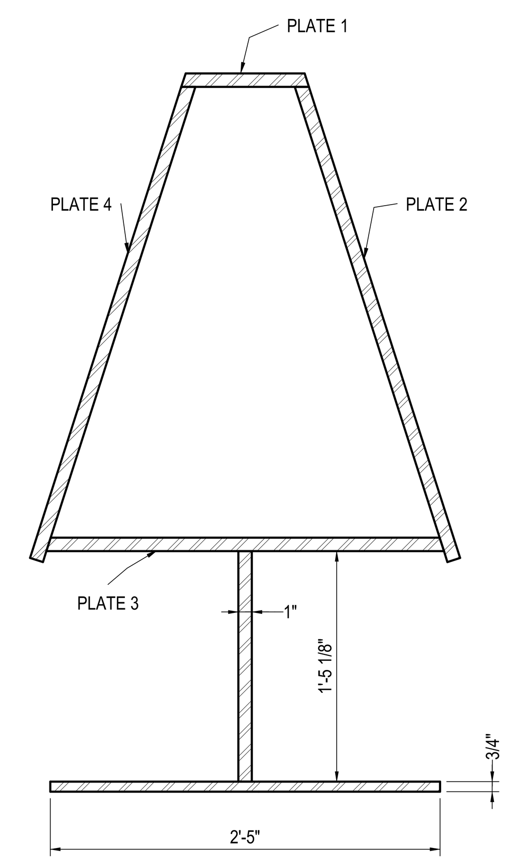
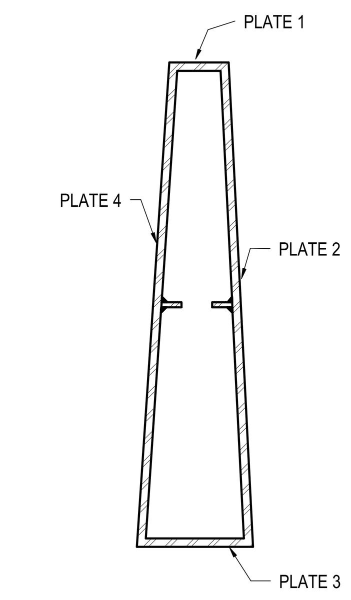
3/32" = 1'-0"

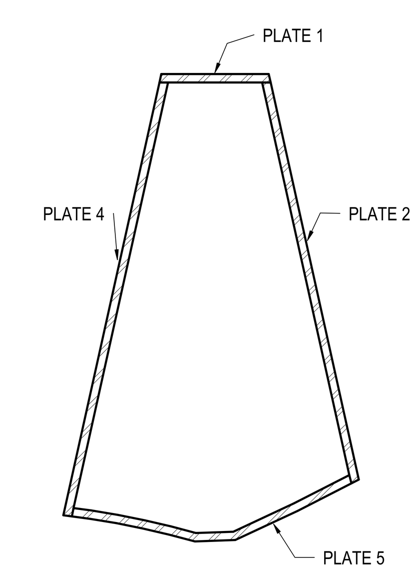


2 TYPICAL VERTICAL SECTION
1 1/2" = 1'-0"

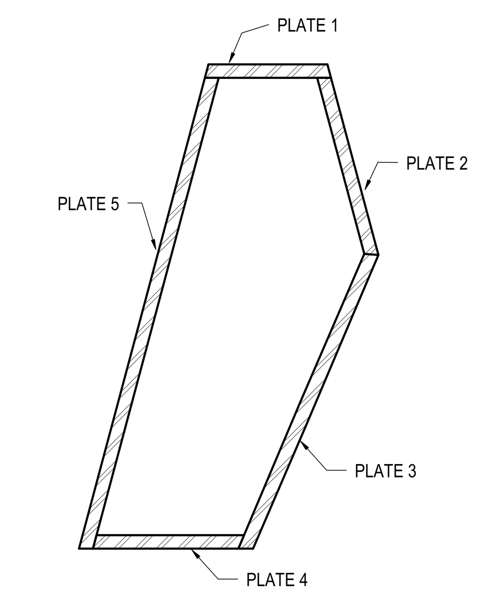
NOTE: FOR WELD DETAILS REFER TO S-753 & S-754



5 TYPICAL TERTIARY SECTION
1 1/2" = 1'-0"



4 TYPICAL DIAGONAL SECTION
1 1/2" = 1'-0"



10 TYPICAL DIAGONAL MD4-1 MD6-1 F-G1
1 1/2" = 1'-0"

ELEMENT	PLATE 1	PLATE 2	PLATE 3	PLATE 4
A1	3/4"	3/4"	3/4"	3/4"
A2	5/8"	5/8"	5/8"	5/8"
A3	5/8"	5/8"	5/8"	5/8"
B2	5/8"	5/8"	5/8"	5/8"
B3	3/4"	3/4"	3/4"	3/4"
B4	5/8"	5/8"	5/8"	5/8"
C1	1 1/2"	1 1/2"	1 1/2"	1 1/2"
C2	1 1/4"	1 1/4"	1 1/4"	1 1/4"
C3	1 1/4"	1 1/4"	1 1/4"	1 1/4"
C4	1 1/4"	1 1/4"	1 1/4"	1 1/4"
D2	3/4"	3/4"	3/4"	3/4"
D3	1"	1"	1"	1"
D4	5/8"	5/8"	5/8"	5/8"
E2	5/8"	5/8"	5/8"	5/8"
E3	5/8"	5/8"	5/8"	5/8"
E4	5/8"	5/8"	5/8"	5/8"
F2	5/8"	5/8"	5/8"	5/8"
F3	5/8"	5/8"	5/8"	5/8"
F4	5/8"	5/8"	5/8"	5/8"
G1	2 1/2"	2 1/2"	2 1/2"	2 1/2"
G2	1 3/4"	1 3/4"	1 3/4"	1 3/4"
G3	1 3/4"	1 3/4"	1 3/4"	1 3/4"
G4	1 3/4"	1 3/4"	1 3/4"	1 3/4"

6 MAIN VERTICAL PLATE THICKNESSES

NOTE: FOR DETAILS OF PLATE THICKNESS AT NODES REFER TO S-752

ELEMENT	PLATE 1	PLATE 2	PLATE 3	PLATE 4	PLATE 5
MD1-4	5/8"	5/8"		5/8"	5/8"
MD2-2	1/2"	1/2"		1/2"	1/2"
MD2-3	1/2"	1/2"		1/2"	1/2"
MD2-4	1/2"	1/2"		1/2"	1/2"
MD3-1	1/2"	1/2"		1/2"	1/2"
MD3-2	5/8"	5/8"		5/8"	5/8"
MD3-3	3/4"	3/4"		3/4"	3/4"
MD3-4	5/8"	5/8"		5/8"	5/8"
MD4-1	5/8"	5/8"	5/8"	5/8"	5/8"
MD4-2	1/2"	1/2"		1/2"	1/2"
MD4-3	5/8"	5/8"		5/8"	5/8"
MD4-4	5/8"	5/8"		5/8"	5/8"
MD5-2	3/4"	3/4"		3/4"	3/4"
MD5-3	1/2"	1/2"		1/2"	1/2"
MD5-4	5/8"	5/8"		5/8"	5/8"
MD6-1	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
MD6-2	1/2"	1/2"		1/2"	1/2"
MD6-3	1/2"	1/2"		1/2"	1/2"
MD6-4	1/2"	1/2"		1/2"	1/2"
MD7-2	1/2"	1/2"		1/2"	1/2"
MD7-3	1"	1"		1"	1"
MD7-4	1"	1"		1"	1"
MD8-2	1/2"	1/2"		1/2"	1/2"
MD8-3	1"	1"		1"	1"
F-G1	3/4"	3/4"	3/4"	3/4"	3/4"

7 MAIN DIAGONAL PLATE THICKNESSES

NOTE: PLATE 3 CAN BE OMITTED IN THE EVENT THAT PLATE 5 CAN BE FABRICATED AT SIMILAR THICKNESS TO PLATE 1. OTHERWISE PLATE 5 IS 5/8" PER TABLE

NOTE: TO MINIMIZE THE DISTORTION DURING FABRICATION PLATE THICKNESSES IN ELEMENTS C1 C2 C3 G4 MD6-1 MD7-3 MD7-4 HAVE BEEN REDUCED BY USING 65 KSI STEEL. THE CONTRACTOR MAY PROPOSE, SUBJECT TO AGREEMENT WITH ARCHITECT & SER, THICKER PLATE AT GRADE 50 KSI

ELEMENT BETWEEN	PLATE 1	PLATE 2	PLATE 3	PLATE 4
B4 - MD2-4	5/8"	5/8"	5/8"	5/8"
C4 - MD3-4	1"	1"	1"	1"
D4 - MD4-4	5/8"	5/8"	5/8"	5/8"
E4 - MD5-4	5/8"	5/8"	5/8"	5/8"
F4 - MD6-4	5/8"	5/8"	5/8"	5/8"
G4 - MD7-4	5/8"	5/8"	5/8"	5/8"

8 TERTIARY ELEMENT PLATE THICKNESSES
1 1/2" = 1'-0"

ELEMENT	PLATE 1	PLATE 2	PLATE 3	PLATE 4
WP-1	1/2"	1/2"	1/2"	1/2"
WP-2	1/2"	1/2"	1/2"	1/2"
WP-3	1/2"	1/2"	1/2"	1/2"
WP-4	3/4"	3/4"	3/4"	3/4"
EP-1	1"	1"	1"	1"
EP-2	1 1/2"	1 1/2"	1 1/2"	1 1/2"
EP-3	1 1/2"	1 1/2"	1 1/2"	1 1/2"
EP-4	1 1/2"	1 1/2"	1 1/2"	1 1/2"
H-BC	3/4"	3/4"	3/4"	3/4"
H-DE	3/4"	3/4"	3/4"	3/4"
H-EF	3/4"	3/4"	3/4"	3/4"

9 EAST AND WEST PORTALS PLATE THICKNESSES

NOTE: PLATE THICKNESSES ARE UPDATED BASED ON THE ADDITION OF HORIZONTAL CABLES AT 30'. NO OTHER VE ITEM HAS BEEN INCLUDED.

Damian Titus
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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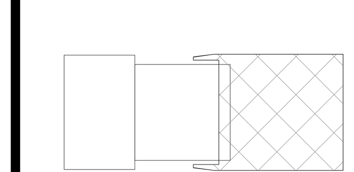
KEY PLAN



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21		CONSTRUCTION SET	10.09.2015
10	4	100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014
1		ADVANCED PROCUREMENT BID SET	06.16.2014

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STATE OF NEW YORK
ELI B. GOTTLIEB
080894
LICENSED PROFESSIONAL ENGINEER

DRAWN BY: Author
CHECKED BY: Checker

PROJECT NUMBER
N11318.00

TITLE
TYPICAL WALL PLATE THICKNESSES I

DRAWING NO.
S-751.00

B-SCAN NO.
S-751.00

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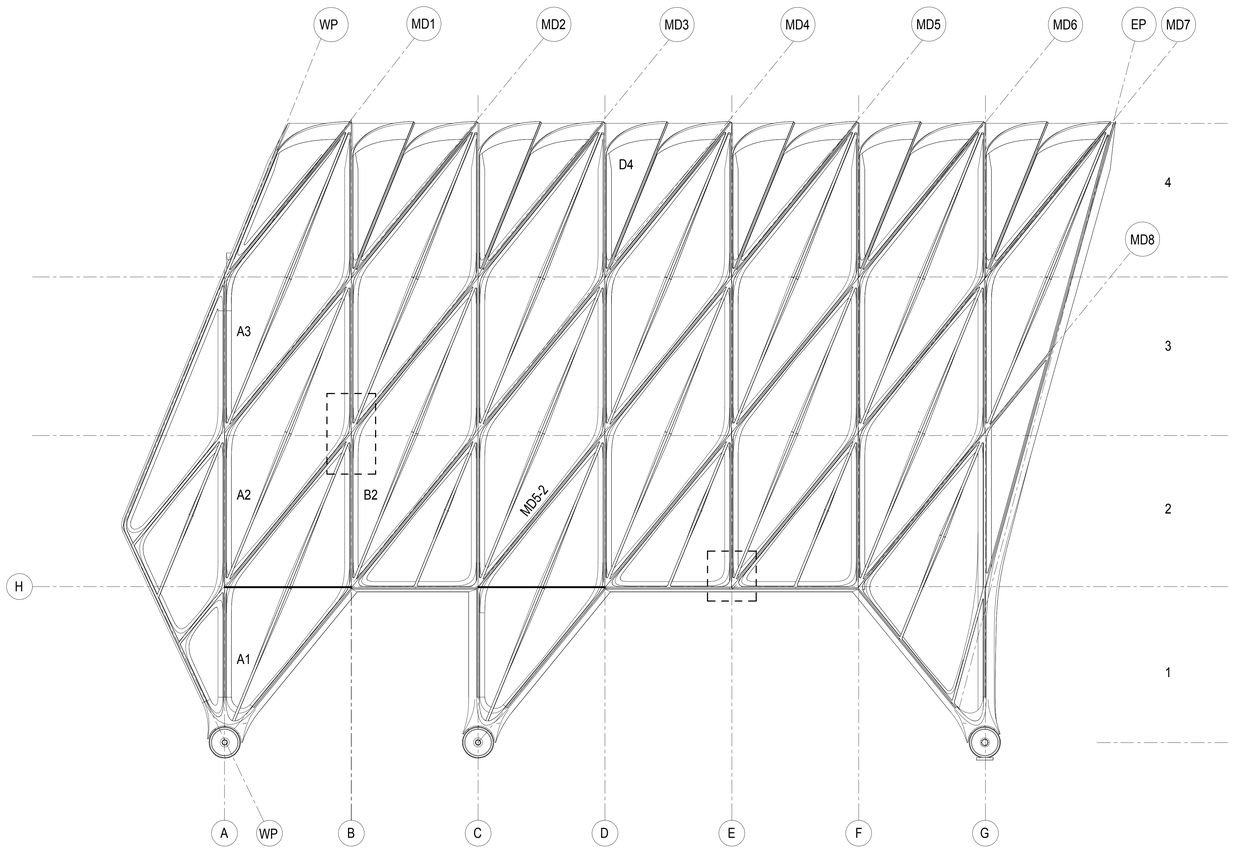


1 SOUTH ELEVATION
3/32" = 1'-0"

NODE INTERSECTION		VERTICAL PLATES THROUGH NODE*	DIAGONAL PLATES THROUGH NODE*	HORIZONTAL PLATES THROUGH NODE*
VERTICAL	DIAGONAL			
WP	WP	1/2"	1/2"	
A	MD1	3/4"	3/4"	
A	MD2	3/4"	3/4"	
A	MD3	3/4"	3/4"	
B	MD2	3/4"	3/4"	
B	MD3	3/4"	1"	
B	MD4	3/4"	3/4"	3/4"
C	MD3	1 1/2"	1"	
C	MD4	1 1/2"	1 1/4"	
C	MD5	2"	2"	2"
D	MD4	1"	1 1/4"	
D	MD5	1"	2"	
D	MD6	1"	2 1/4"	1"
E	MD5	5/8"	5/8"	
E	MD6	5/8"	1/2"	
E	MD7	5/8"	5/8"	3/4"
F	MD6	5/8"	5/8"	
F	MD7	5/8"	1"	
F	MD8	1"	1"	1"
G	MD7	1 1/2"	1"	
G	MD8	1 1/2"	1"	

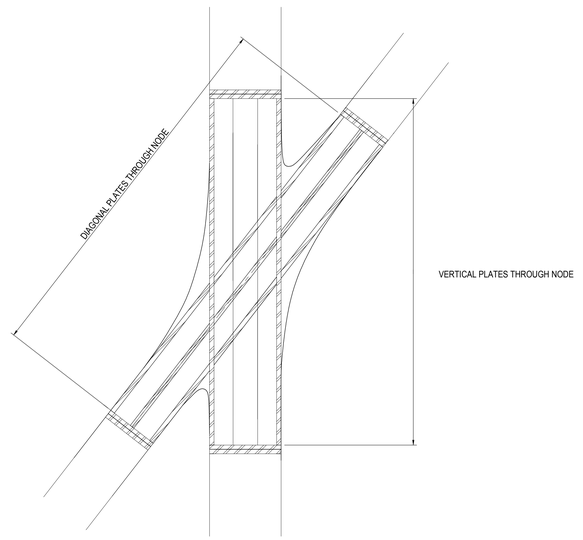
3 NODE PLATE THICKNESSES
1 1/2" = 1'-0"

*FOR COMMON SURFACES THE LARGER THICKNESS IS TO BE ADOPTED

GEOMETRY, DIMENSIONS AND SURFACE CONTOURING, BLENDING AND INTERSECTION OF SECTIONS ILLUSTRATED IN THE STRUCTURAL DRAWINGS ARE PROVIDED FOR REFERENCE AND GENERATION OF STRUCTURAL ARRANGEMENT AND DETAILS ONLY. THE 3D MODEL ISSUED BY THE ARCHITECT DEFINES THE EXTERIOR SURFACE AND SHALL BE ADHERED TO FOR THE FINAL GEOMETRY. FOR DETAILS OF SECONDARY STEEL, INCLUDING STRUCTURAL CLADDING REFER TO ARCHITECTURE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY ANY DISCREPANCIES OR AMBIGUITIES FOR DISCUSSION, RESOLUTION AND DIRECTION FROM THE ARCHITECT AND SER.

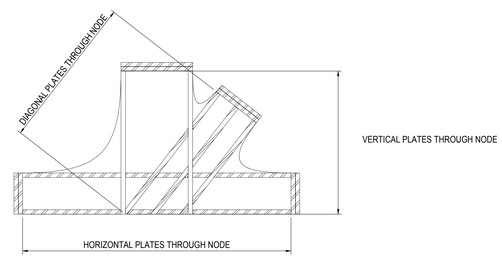
THE GEOMETRY CREATED BY THE INTERSECTING ELEMENTS SHALL BE IN ACCORDANCE WITH THE 3D MODEL. THE LEVEL OF QUALITY IS TO BE SIMILAR TO THE COMISSIONED MOCK-UP FOR THE TYPICAL NODE. THE GENERAL CONCEPT IS THAT EDGES FLOW SMOOTHLY AND CONTINUOUSLY BETWEEN THE EDGE OF THE ELEMENT TO THE CORRESPONDING EDGE OF THE ADJASCENT ELEMENT AND THE INTERLYING SURFACES BETWEEN THESE EDGES ARE BLENDED AND CONTOURED TO DEFINE A SMOOTH, UNINTERRUPTED TRANSITION.

NOTE: TONNAGES ARE PROVIDED BASED ON THE MINIMUM PLATE THICKNESSES SHOWN IN S-751 INTERSECTING AT NODES.
THIS DRAWING REPRESENTS A PROPOSAL TO AID FABRICATION TO PROVIDE A UNIFORM THICKNESS THROUGH ANY GIVEN NODE FOR DIAGONALS AND VERTICALS RESPECTIVELY.
A UNIFORM PLATE THICKNESS THROUGH THE ENTIRE NODE MAY BE PROPOSED BY THE FABRICATOR SUBJECT TO APPROVAL BY ARCHITECT AND SER.



2 TYPICAL NODE SECTION
1/2" = 1'-0"

NOTE: THE GEOMETRY CREATED BY THE INTERSECTING MAIN VERTICALS AND DIAGONALS SHALL BE IN ACCORDANCE WITH THE 3D MODEL AND FOLLOW, AS A MINIMUM, THE QUALITY EXHIBITED IN THE COMMISSIONED MOCK-UP. THE GENERAL CONCEPT IS THAT EDGES FLOW SMOOTHLY AND CONTINUOUSLY BETWEEN THE STRAIGHT EDGE OF A DIAGONAL THROUGH A CURVE TO THE ADJACENT EDGE OF VERTICAL AND THE INTERLYING SURFACE BETWEEN THESE EDGES ARE BLENDED AND CONTOURED TO DEFINE A SMOOTH, UNINTERRUPTED TRANSITION.



4 HEADER NODE SECTION
1/2" = 1'-0"

Damian Titus
BuildingConnected
APPROVED
Under Directive 2 of 1975
ARCHITECTURAL EXAMINER
Date: 07/15/2016
NYC Development Hub

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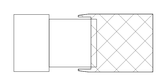

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N11318.00

TITLE
TYPICAL WALL PLATE THICKNESSES II

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S-752.00

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S-752.00

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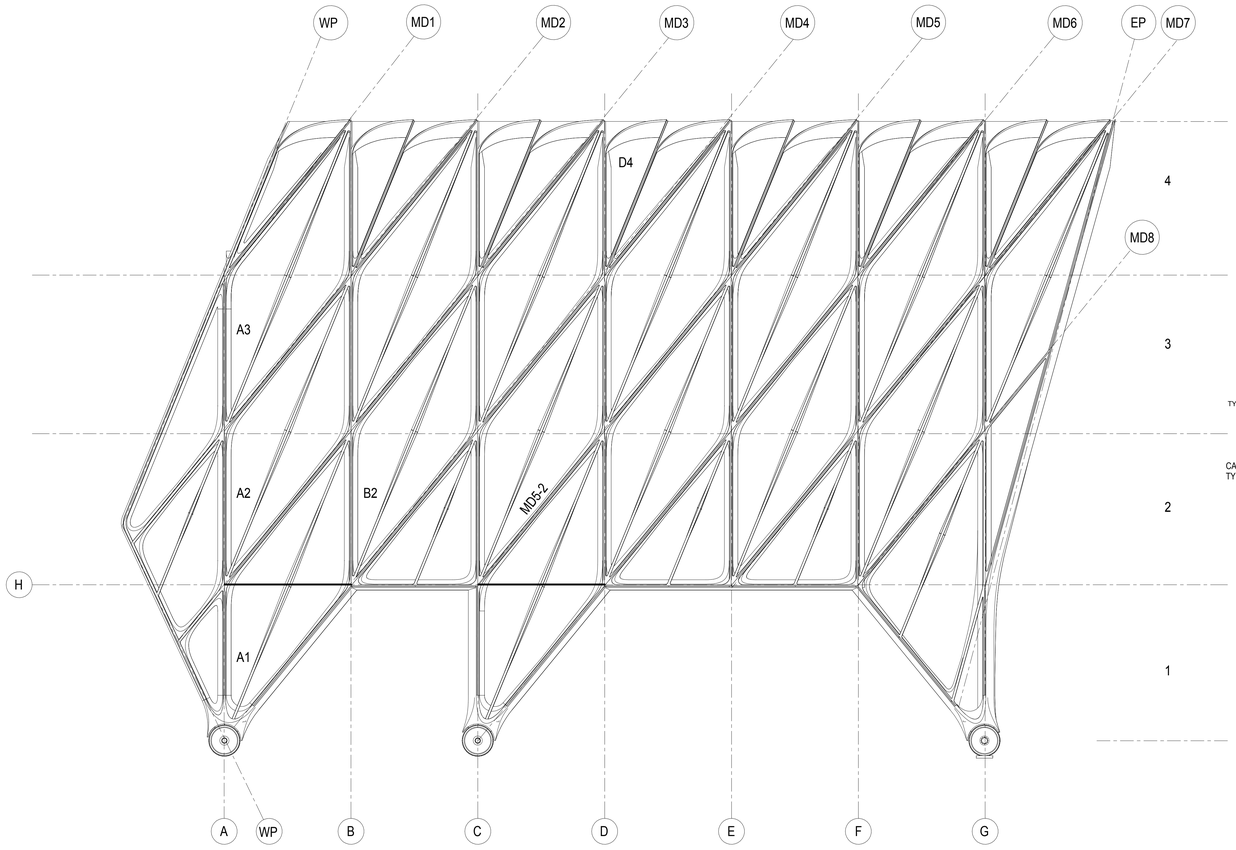

1 SOUTH ELEVATION
3/32" = 1'-0"

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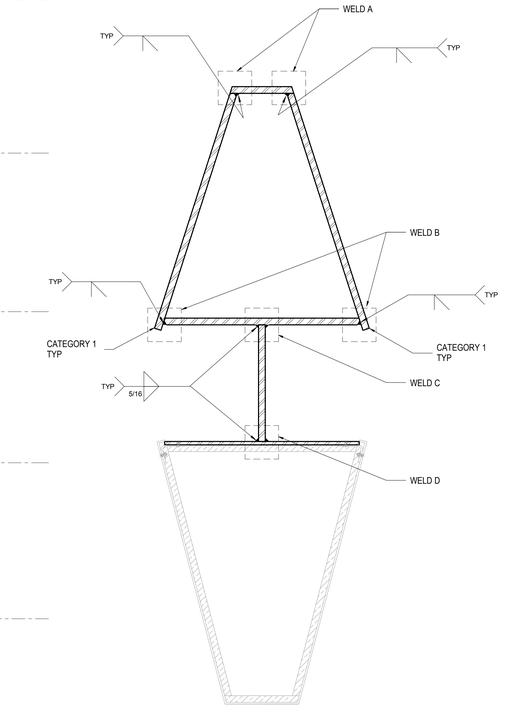
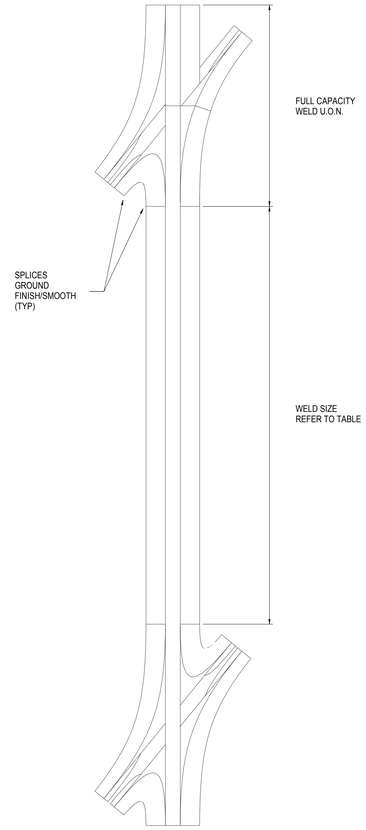


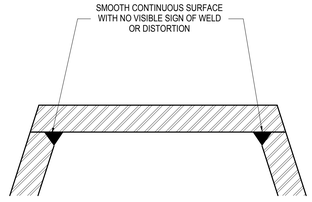
2 TYPICAL SECTION
1 1/2" = 1'-0"

CATEGORY I CORNERS: ALL CORNERS MARKED CATEGORY I TO HAVE A SHARP CONTINUOUS EDGE WITH STRAIGHTNESS TO WITHIN +/- 1/16".
ALL CORNERS MAY HAVE A 0.08" RADIUS
FOR NODE WELD DETAILS SEE DRAWING S-755

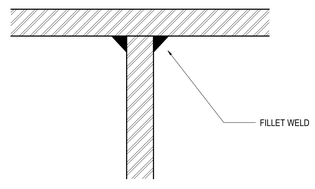


	EFFECTIVE THROAT SIZE	
ELEMENT	WELD A	WELD B
A1	5/16"	5/16"
A2	5/16"	5/16"
A3	5/16"	5/16"
B2	5/16"	5/16"
B3	5/16"	5/16"
B4	5/16"	5/16"
C1	3/8"	3/8"
C2	5/16"	5/16"
C3	5/16"	5/16"
C4	3/8"	7/16"
D2	5/16"	5/16"
D3	5/16"	5/16"
D4	5/16"	5/16"
E2	5/16"	5/16"
E3	5/16"	5/16"
E4	5/16"	5/16"
F2	5/16"	5/16"
F3	5/16"	5/16"
F4	5/16"	5/16"
G2	3/8"	3/8"
G3	5/16"	5/16"
G4	7/16"	1/2"

8 WELD SIZES
1 1/2" = 1'-0"

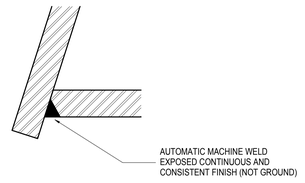


3 WELD A DETAIL
6" = 1'-0"

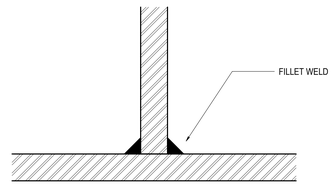


5 WELD C DETAIL
6" = 1'-0"

7 WELD SIZE REFERENCE
3/8" = 1'-0"



4 WELD B DETAIL
6" = 1'-0"



6 TYPICAL SECTION
6" = 1'-0"

NOTE: ALL VERTICAL ELEMENTS SIMILAR U.O.N.

Damian Titus
DOB Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/15/2016
NYC Development Hub

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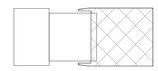
KEY PLAN



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1		ADVANCED PROCUREMENT BID SET	06.16.2014

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PROJECT NUMBER
N11318.00

TITLE
MAIN VERTICAL WELD DETAILS

DRAWING NO.
S-753.00

B-SCAN NO.
S-753.00

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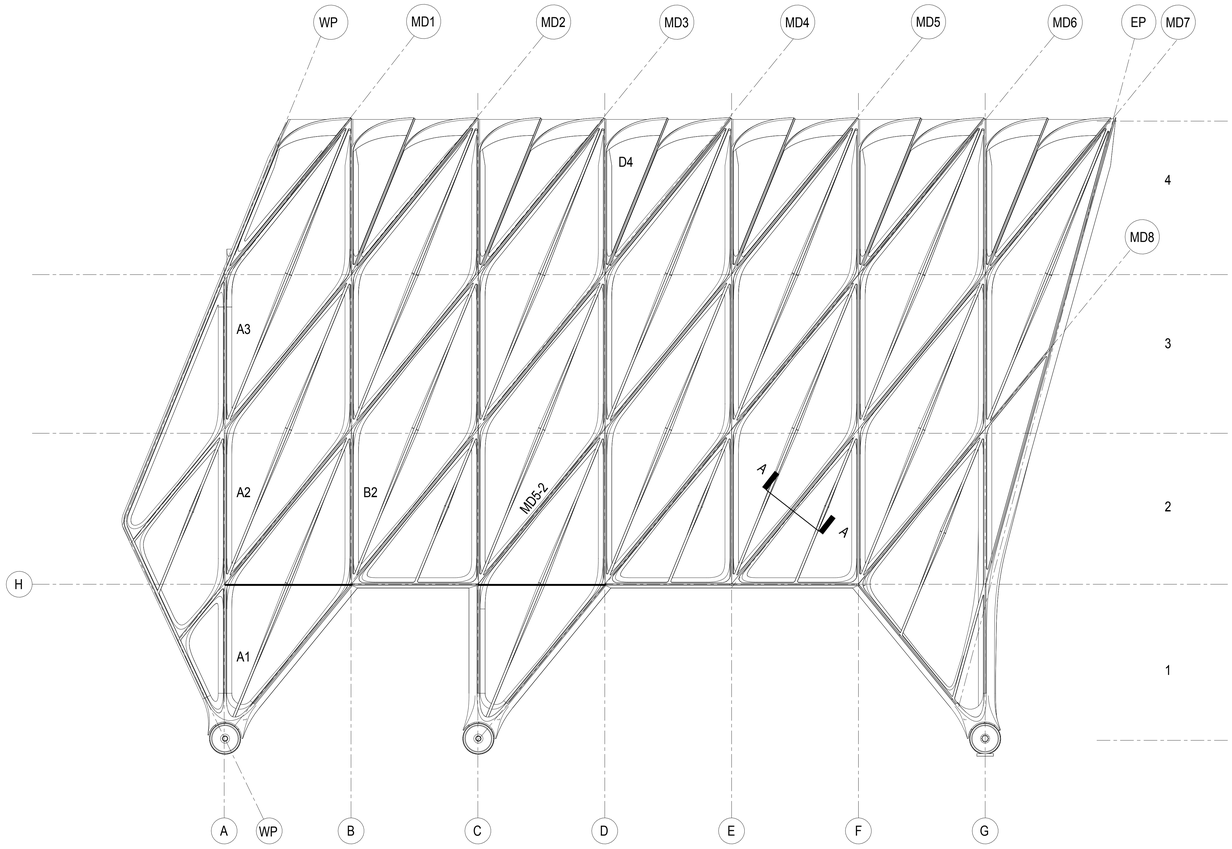

1 SOUTH ELEVATION
3/32" = 1'-0"

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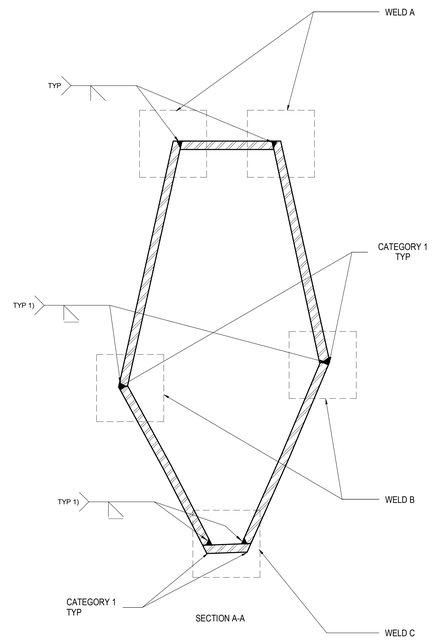
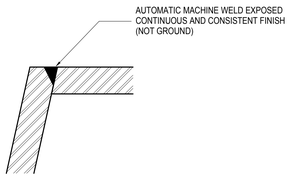


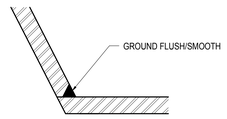
2 TYPICAL SECTION
3" = 1'-0"

	EFFECTIVE THROAT SIZE			
ELEMENT	WELD A	WELD B1	WELD C (E3)	WELD B2 (E4)
MD1-4	5/16"	5/16"	5/16"	
MD2-2	1/4"	1/4"	1/4"	
MD2-3	1/4"	1/4"	1/4"	
MD2-4	5/16"	5/16"	5/16"	
MD3-1	1/4"	1/4"	1/4"	
MD3-2	5/16"	5/16"	5/16"	
MD3-3	5/16"	5/16"	5/16"	5/16"
MD3-4	5/16"	5/16"	5/16"	
MD4-1	5/16"	5/16"	5/16"	
MD4-2	5/16"	5/16"	5/16"	
MD4-3	5/16"	5/16"	5/16"	5/16"
MD4-4	5/16"	5/16"	5/16"	
MD5-2	7/16"	5/16"	5/16"	1/2"
MD5-3	1/4"	1/4"	1/4"	
MD5-4	5/16"	5/16"	5/16"	
MD6-1	7/8"	5/8"	15/16"	
MD6-2	1/4"	1/4"	1/4"	
MD6-3	1/4"	1/4"	1/4"	
MD6-4	5/16"	5/16"	5/16"	
MD7-2	1/4"	1/4"	1/4"	
MD7-3	5/16"	5/16"	5/16"	5/16"
MD7-4	5/16"	5/16"	5/16"	
MD8-2	1/4"	1/4"	1/4"	
MD8-3	5/16"	7/16"	5/16"	5/16"
F-G1	5/16"	5/16"	5/16"	

7 WELD SIZES
1 1/2" = 1'-0"



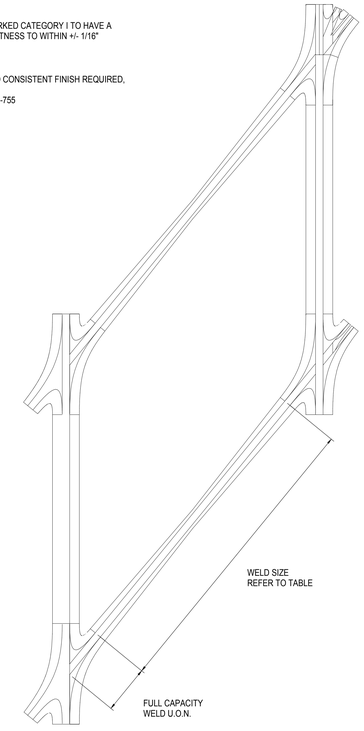
3 WELD A DETAIL
6" = 1'-0"



4 WELD C DETAIL
6" = 1'-0"

CATEGORY I CORNERS: ALL CORNERS MARKED CATEGORY I TO HAVE A SHARP CONTINUOUS EDGE WITH STRAIGHTNESS TO WITHIN +/- 1/16" ALL CORNERS MAY HAVE A 0.08" RADIUS

1) EXPOSED EDGE WITH CONTINUOUS AND CONSISTENT FINISH REQUIRED, EVEN ACROSS SPLICES
FOR NODE WELD DETAILS SEE DRAWING S-755



6 WELD SIZE REFERENCE
3/16" = 1'-0"

NOTE: ALL DIAGONAL ELEMENTS SIMILAR U.O.N.

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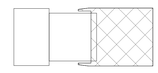
KEY PLAN



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STAMP

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PROJECT NUMBER
N11318.00

TITLE
MAIN DIAGONAL WELD DETAILS

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
S-754.00

B-SCAN NO.
S-754.00

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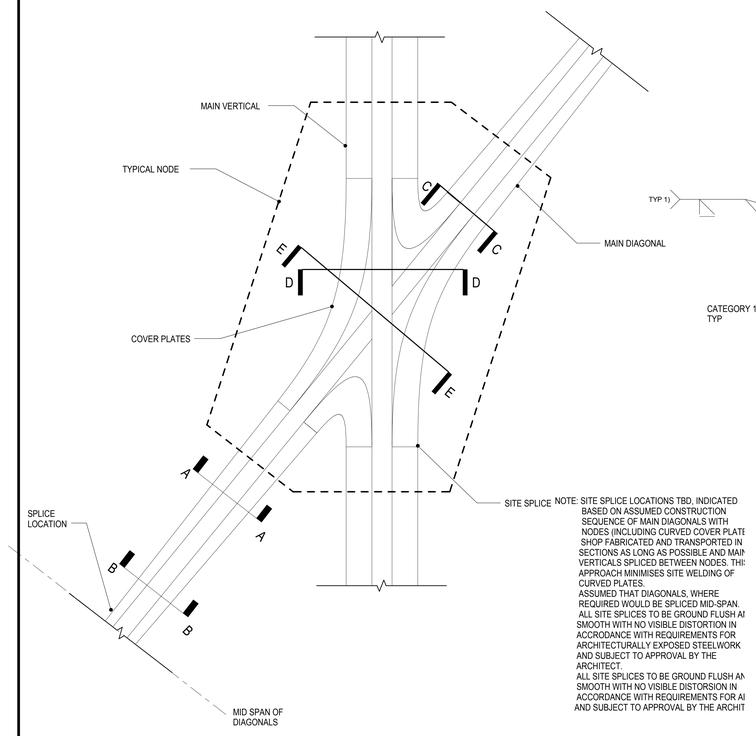
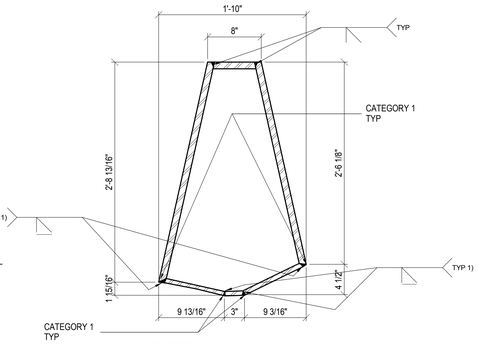
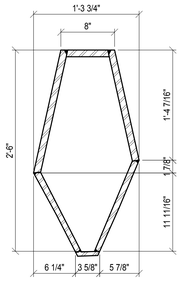


1 TYPICAL NODE ELEVATION
1/2" = 1'-0"

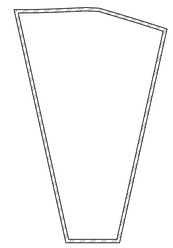
NOTE: SITE SPLICE LOCATIONS TBD, INDICATED BASED ON ASSUMED CONSTRUCTION SEQUENCE OF MAIN DIAGONALS WITH NODES (INCLUDING CURVED COVER PLATE SHOP FABRICATED AND TRANSPORTED IN SECTIONS AS LONG AS POSSIBLE AND MAIN VERTICALS SPLICED BETWEEN NODES. THIS APPROACH MINIMISES SITE WELDING OF CURVED PLATES.
ASSUMED THAT DIAGONALS, WHERE REQUIRED WOULD BE SPLICED MID-SPAN.
ALL SITE SPLICES TO BE GROUND FLUSH AND SMOOTH WITH NO VISIBLE DISTORTION IN ACCRODANCE WITH REQUIREMENTS FOR ARCHITECTURALLY EXPOSED STEELWORK AND SUBJECT TO APPROVAL BY THE ARCHITECT.
ALL SITE SPLICES TO BE GROUND FLUSH AND SMOOTH WITH NO VISIBLE DISTORSION IN ACCORDANCE WITH REQUIREMENTS FOR ALL AND SUBJECT TO APPROVAL BY THE ARCHIT



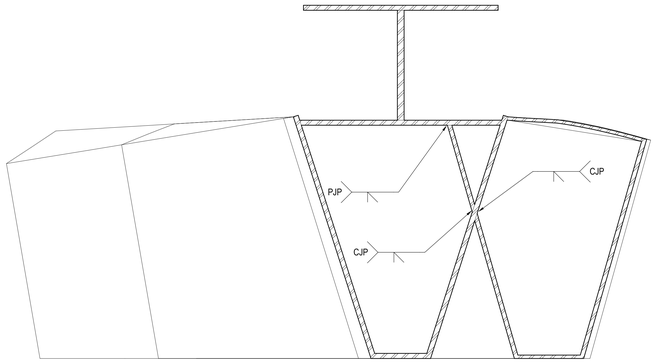
A SECTION A-A
1 1/2" = 1'-0"



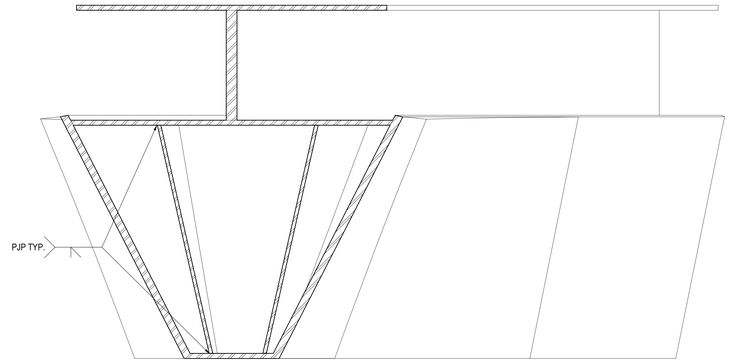
B SECTION B-B
1 1/2" = 1'-0"



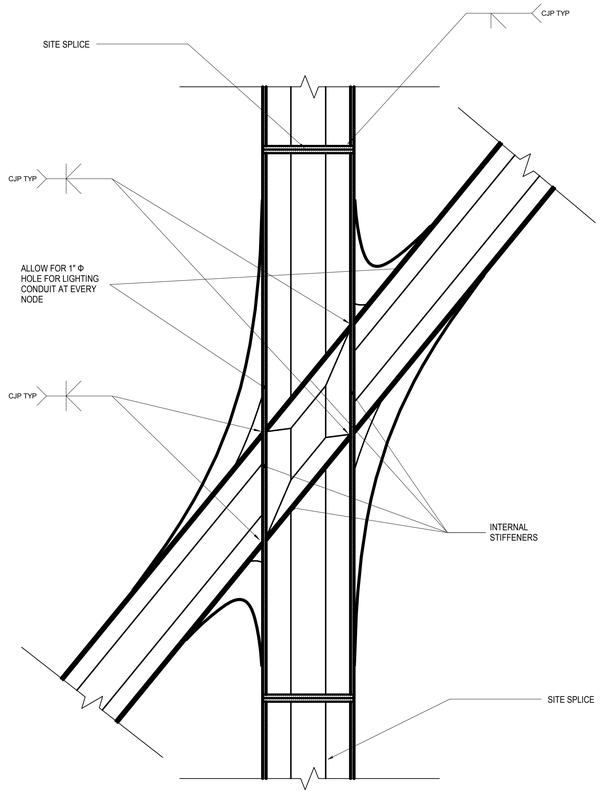
C SECTION C-C
1 1/2" = 1'-0"



D SECTION D-D
1 1/2" = 1'-0"



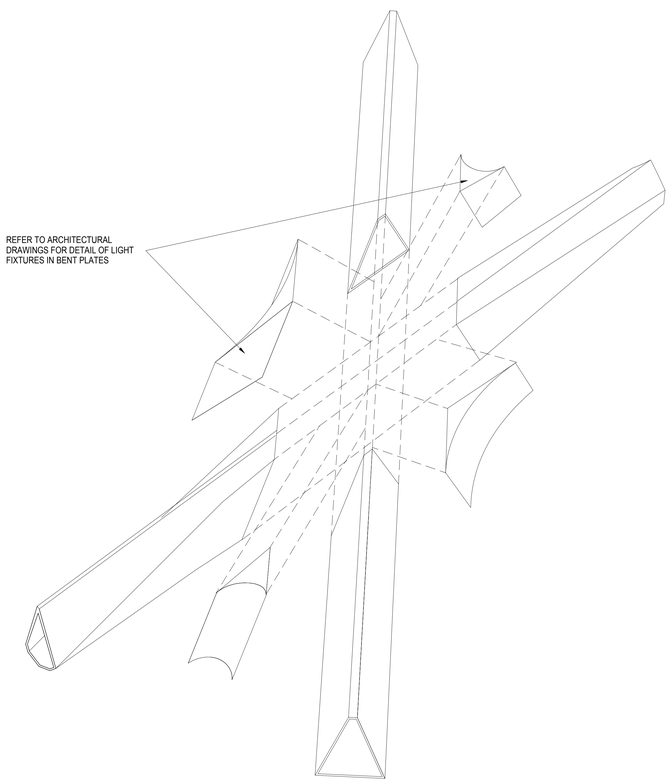
F SECTION E-E
1 1/2" = 1'-0"



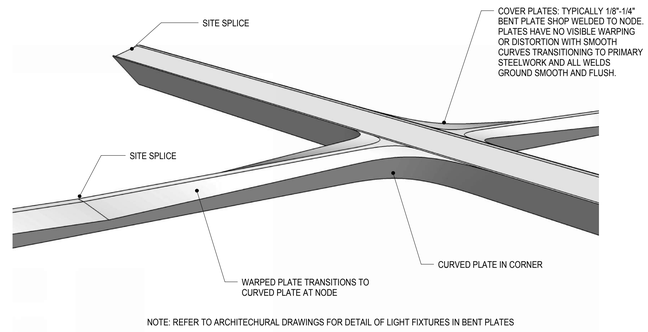
2 TYPICAL NODE SECTION THROUGH INTERIOR
1" = 1'-0"

CATEGORY I CORNERS: ALL CORNERS MARKED CATEGORY I TO HAVE A SHARP CONTINUOUS EDGE WITH STRAIGHTNESS TO WITHIN +/- 1/16" ALL CORNERS MAY HAVE A 0.08" RADIUS

1) EXPOSED EDGE WITH CONTINUOUS AND CONSISTENT FINISH REQUIRED, EVEN ACROSS SPLICES FOR NODE WELD DETAILS SEE DRAWING S-755



3 ISOMETRIC VIEW II - ALL ELEMENTS EXPLODED



NOTE: REFER TO ARCHITECHURAL DRAWINGS FOR DETAIL OF LIGHT FIXTURES IN BENT PLATES

4 ISOMETRIC VIEW I

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THE GEOMETRY CREATED BY THE INTERSECTING ELEMENTS SHALL BE IN ACCORDANCE WITH THE 3D MODEL. THE LEVEL OF QUALITY IS TO BE SIMILAR TO THE COMISSIONED MOCK-UP FOR THE TYPICAL NODE. THE GENERAL CONCEPT IS THAT EDGES FLOW SMOOTHLY AND CONTINUOUSLY BETWEEN THE EDGE OF THE ELEMENT TO THE CORRESPONDING EDGE OF THE ADJASCENT ELEMENT AND THE INTERLYING SURFACES BETWEEN THESE EDGES ARE BLENDED AND CONTOURED TO DEFINE A SMOOTH, UNINTERRUPTED TRANSITION.

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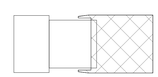
KEY PLAN



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CHECKED BY Checker

PROJECT NUMBER
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TITLE
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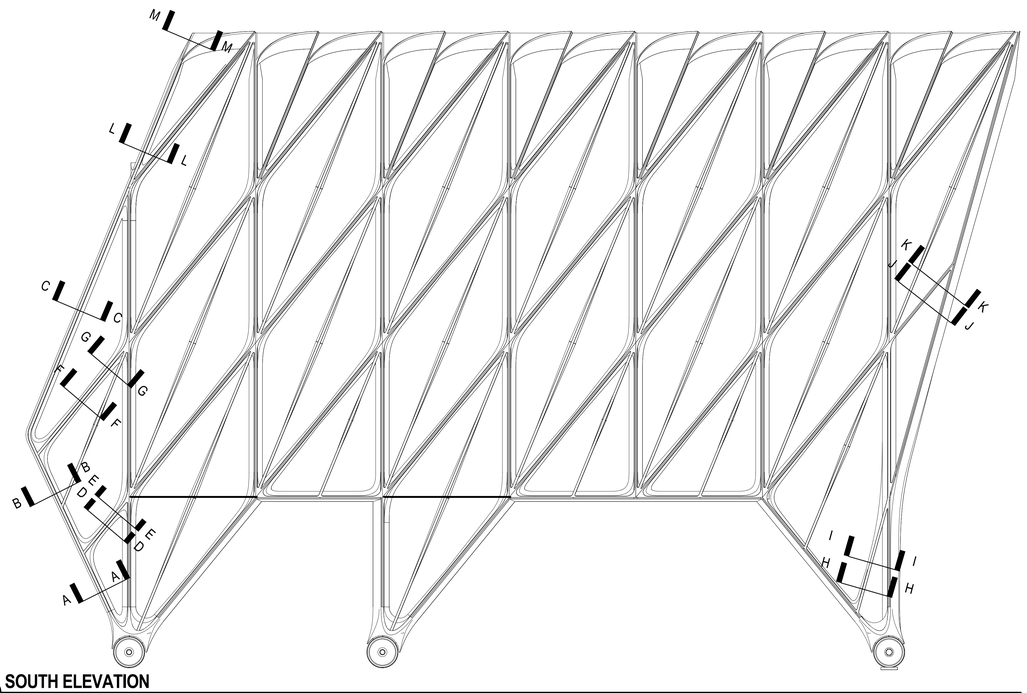
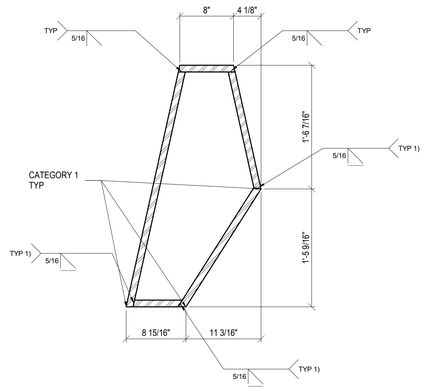
GEOMETRY, DIMENSIONS AND SURFACE CONTOURING, BLENDING AND INTERSECTION OF SECTIONS ILLUSTRATED IN THE STRUCTURAL DRAWINGS ARE PROVIDED FOR REFERENCE AND GENERATION OF STRUCTURAL ARRANGEMENT AND DETAILS ONLY. THE 3D MODEL ISSUED BY THE ARCHITECT DEFINES THE EXTERIOR SURFACE AND SHALL BE ADHERED TO FOR THE FINAL GEOMETRY. FOR DETAILS OF SECONDARY STEEL, INCLUDING STRUCTURAL CLADDING REFER TO ARCHITECTURE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY ANY DISCREPANCIES OR AMBIGUITIES FOR DISCUSSION, RESOLUTION AND DIRECTION FROM THE ARCHITECT AND SER.

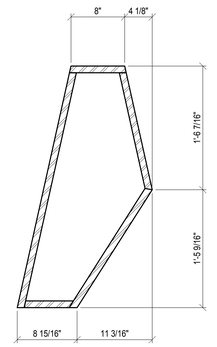


1 SOUTH ELEVATION
3/32" = 1'-0"

NOTES: WELD DETAILS TYPICAL FOR SIMILAR SECTIONS
REFER TO DRAWING S-751 FOR TYPICAL PLATE THICKNESSES



2 SECTION A-A
1 1/2" = 1'-0"



3 SECTION B-B
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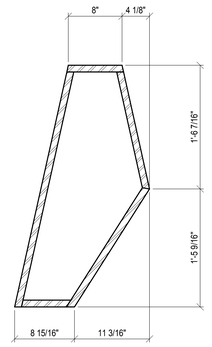
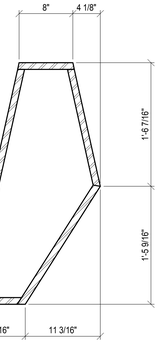


4 SECTION C-C
1 1/2" = 1'-0"

CATEGORY I CORNERS: ALL CORNERS MARKED CATEGORY I TO HAVE A SHARP CONTINUOUS EDGE WITH STRAIGHTNESS TO WITHIN +/- 1/16"
ALL CORNERS MAY HAVE A 0.08" RADIUS

1) EXPOSED EDGE WITH CONTINUOUS AND CONSISTENT FINISH REQUIRED, EVEN ACROSS SPLICES
FOR NODE WELD DETAILS SEE DRAWING S-755



14 SECTION L-L
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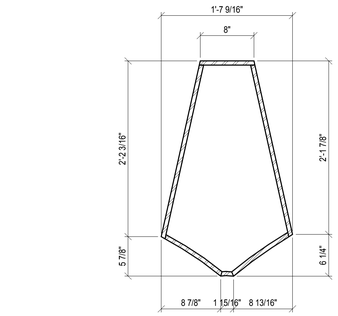

5 SECTION D-D
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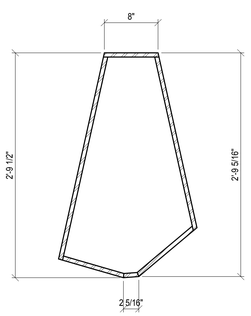

6 SECTION E-E
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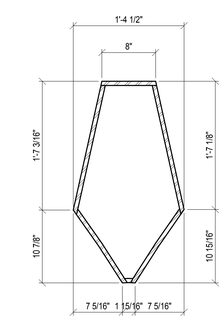

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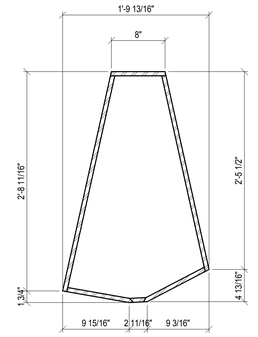

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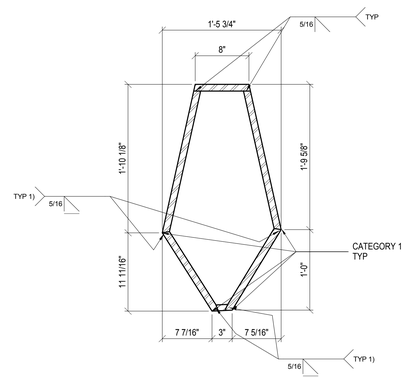
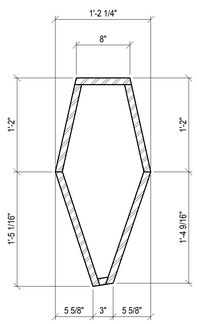


9 SECTION H-H
1 1/2" = 1'-0"



10 SECTION I-I
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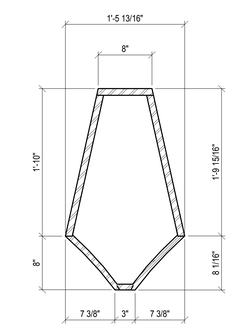

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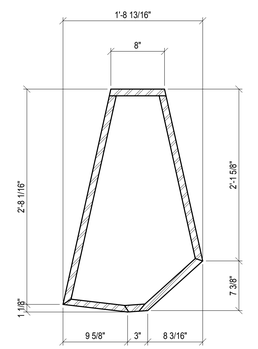
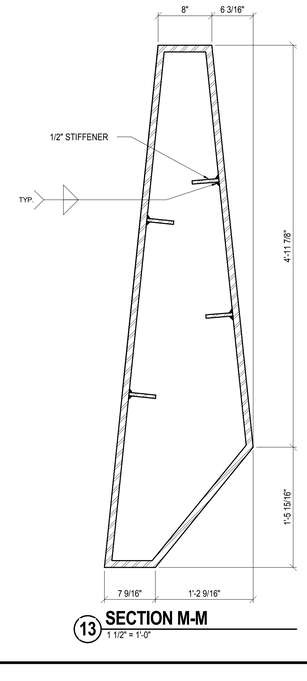


12 SECTION K-K
1 1/2" = 1'-0"

ALL ATYPICAL SECTIONS SIMILAR U.O.N.
ALL WELDS FOR ATYPICAL ELEMENTS GROUND FLUSH/SMOOTH U.O.N.



13 SECTION M-M
1 1/2" = 1'-0"

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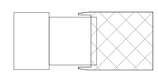
KEY PLAN



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6		PRELIMINARY DOB SUBMISSION	12.10.2014
1		ADVANCED PROCUREMENT BID SET	06.16.2014

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DRAWN BY Author
CHECKED BY Checker

PROJECT NUMBER
N11318.00

TITLE
DEPLOYED SHED NORTH/SOUTH WALL - ATYPICAL ELEMENTS

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
S-757.00

B-SCAN NO.
S-757.00

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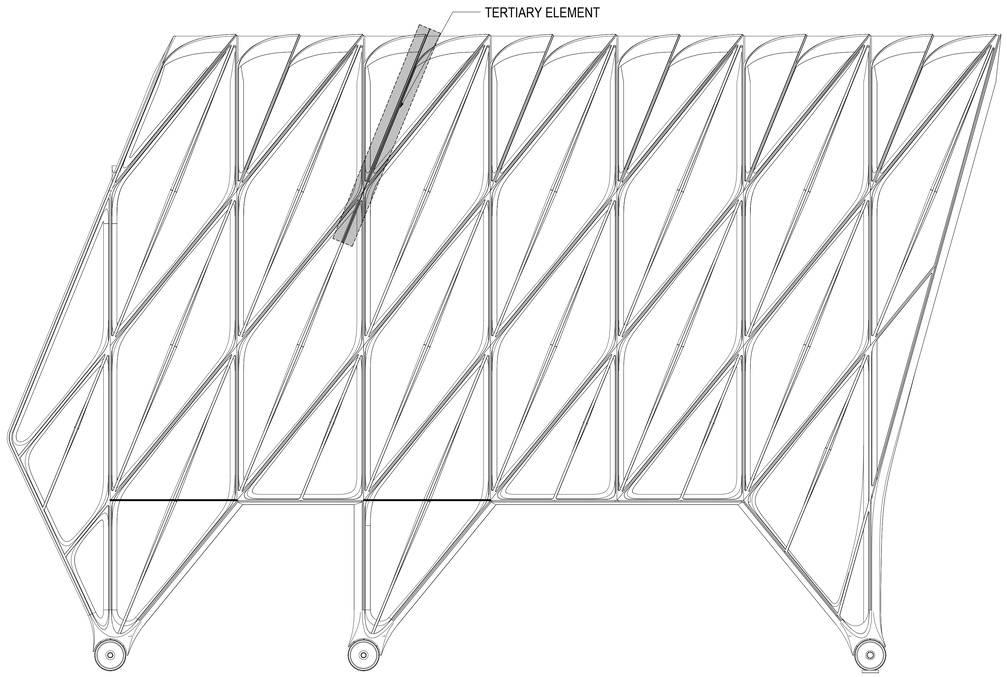

1 SOUTH ELEVATION2
3/32" = 1'-0"

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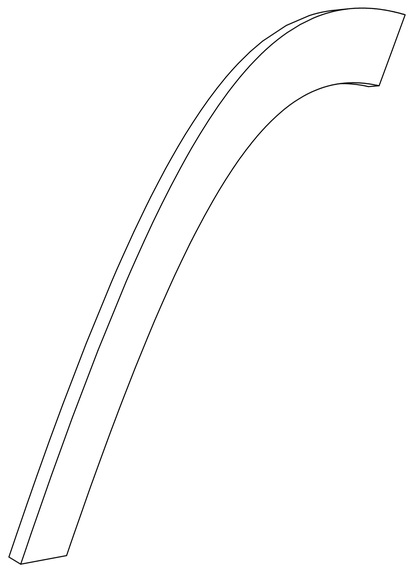
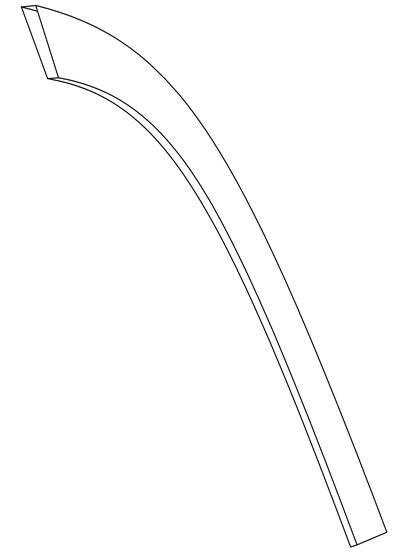
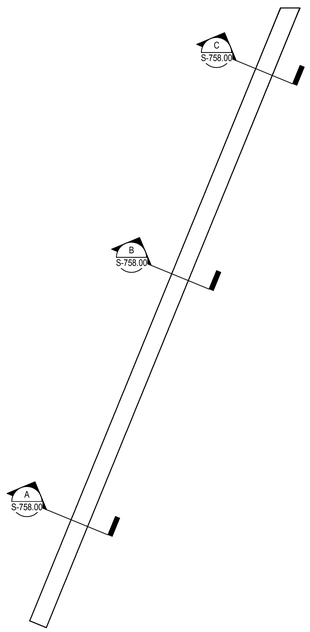


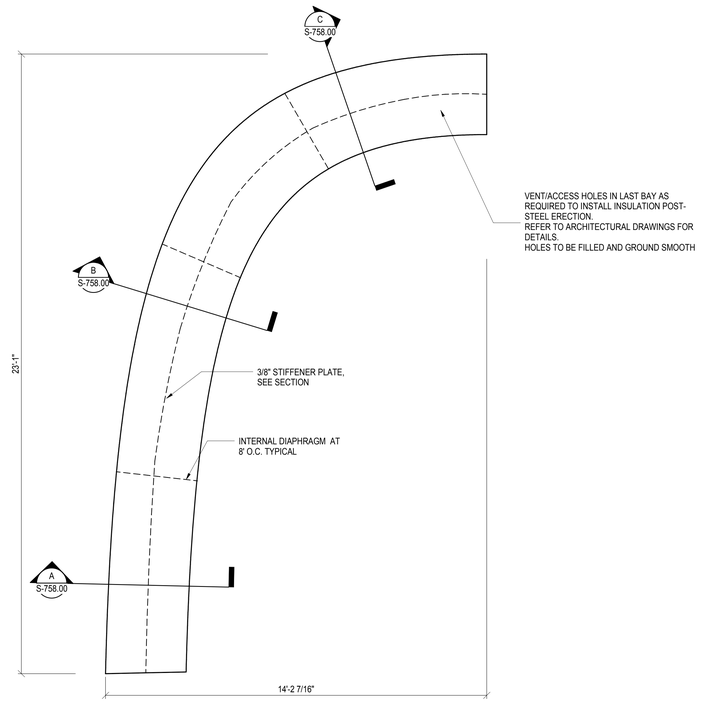
2 FRONT AXONOMETRIC
1/2" = 1'-0"



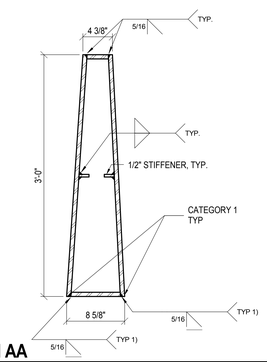
3 REAR AXONOMETRIC
1/2" = 1'-0"



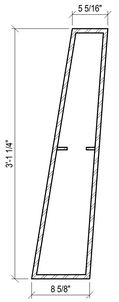
4 FRONT ELEVATION
1/2" = 1'-0"



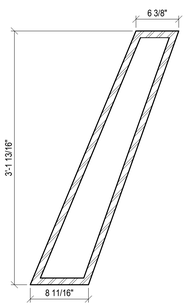
5 SIDE ELEVATION
1/2" = 1'-0"



A SECTOIN AA
1 1/2" = 1'-0"



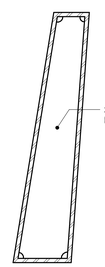
B SECTION BB
1 1/2" = 1'-0"



C SECTION CC
1 1/2" = 1'-0"

CATEGORY I CORNERS: ALL CORNERS MARKED CATEGORY I TO HAVE A SHARP CONTINUOUS EDGE WITH STRAIGHTNESS TO WITHIN +/- 1/16"
ALL CORNERS MAY HAVE A 0.08" RADIUS

1) EXPOSED EDGE WITH CONTINUOUS AND CONSISTENT FINISH REQUIRED, EVEN ACROSS SPLICES FOR NODE WELD DETAILS SEE DRAWING S-755



6 TERTIARY ELEMENT DIAPHRAGM
1 1/2" = 1'-0"

NOTE: ALL TERTIARY ELEMENTS SIMILAR U.O.N.

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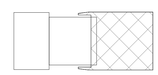
KEY PLAN



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PROJECT NUMBER
N11318.00

TITLE

DEPLOYED SHED NORTH/SOUTH WALL - TERTIARY ELEMENTS

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
S-758.00

B-SCAN NO.
S-758.00

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DEPT OF BLDGS 121192397 Job Number
ES885100641 Scan Code

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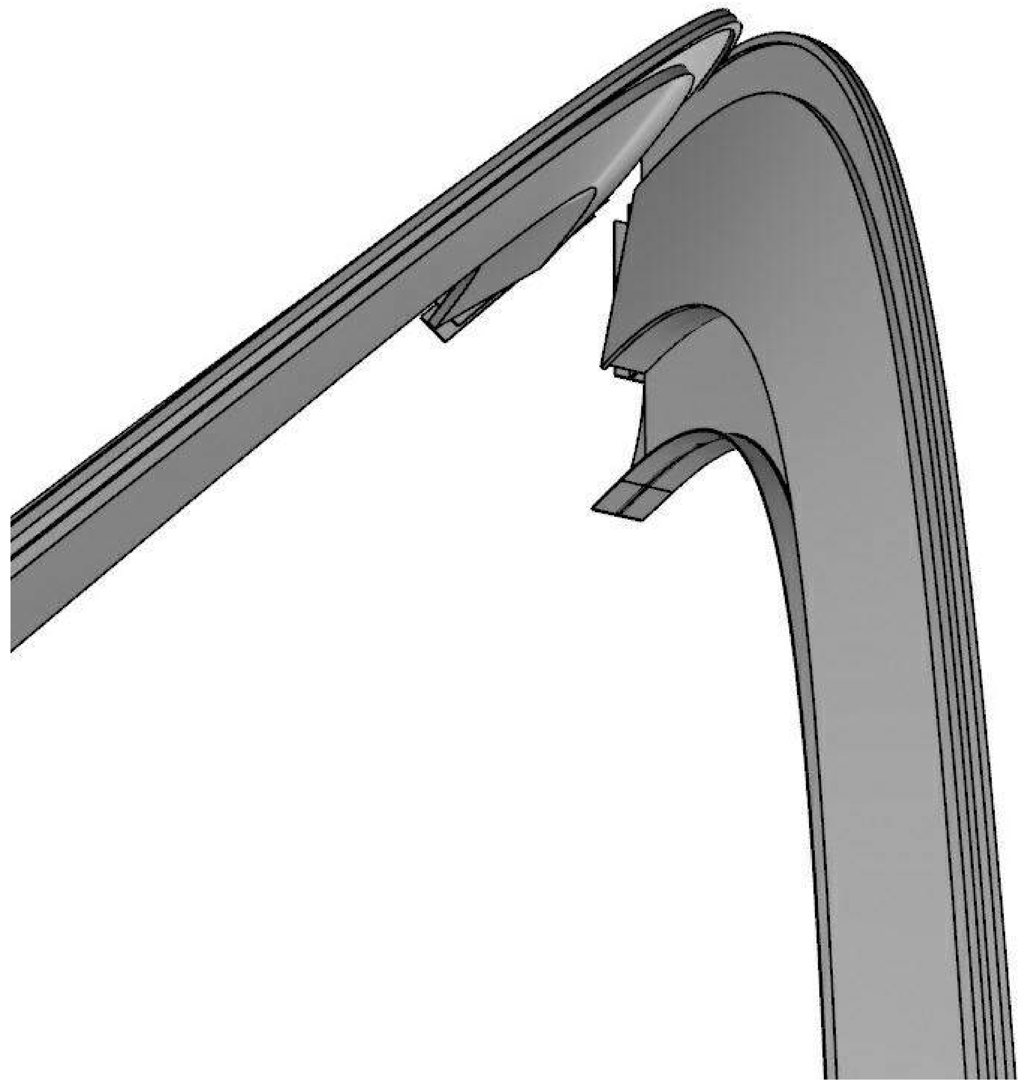
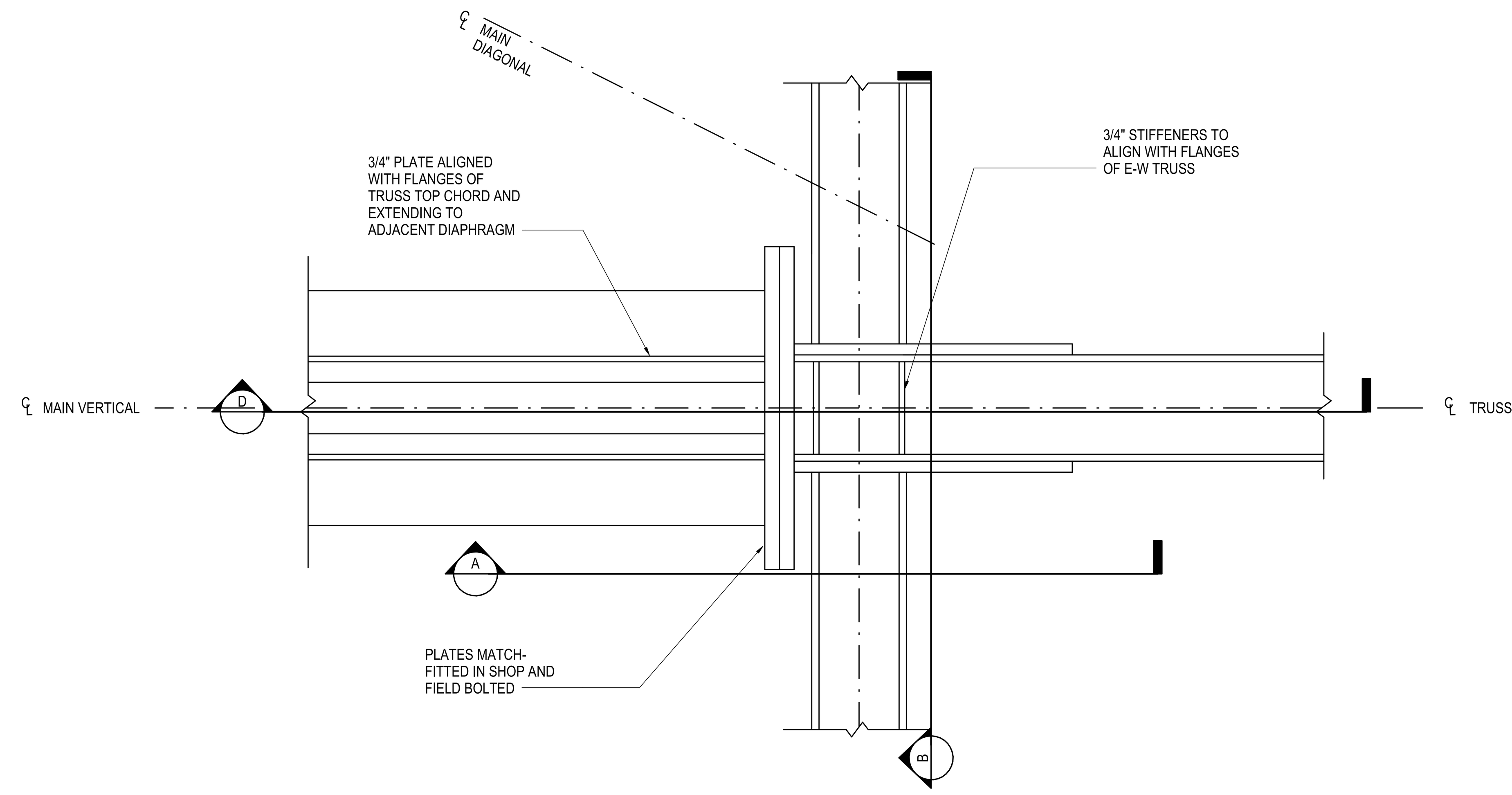
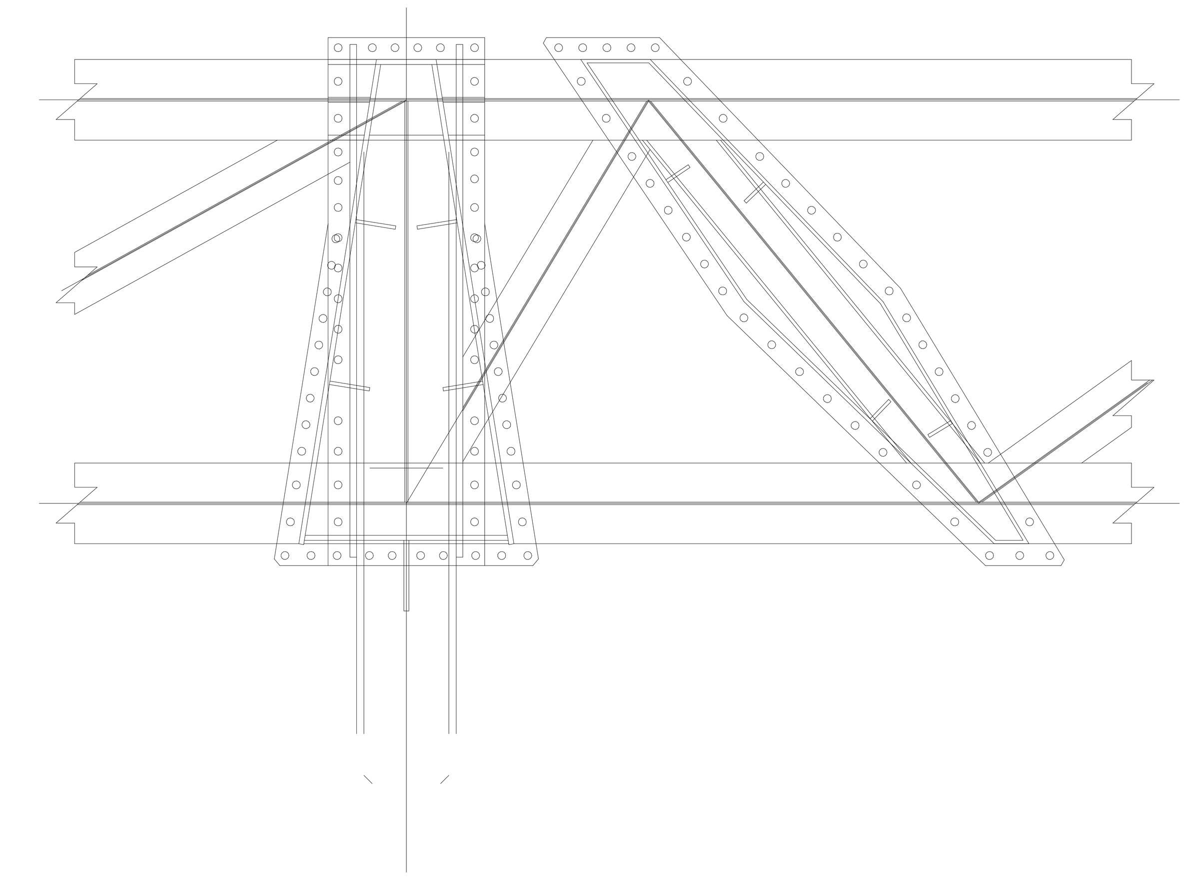


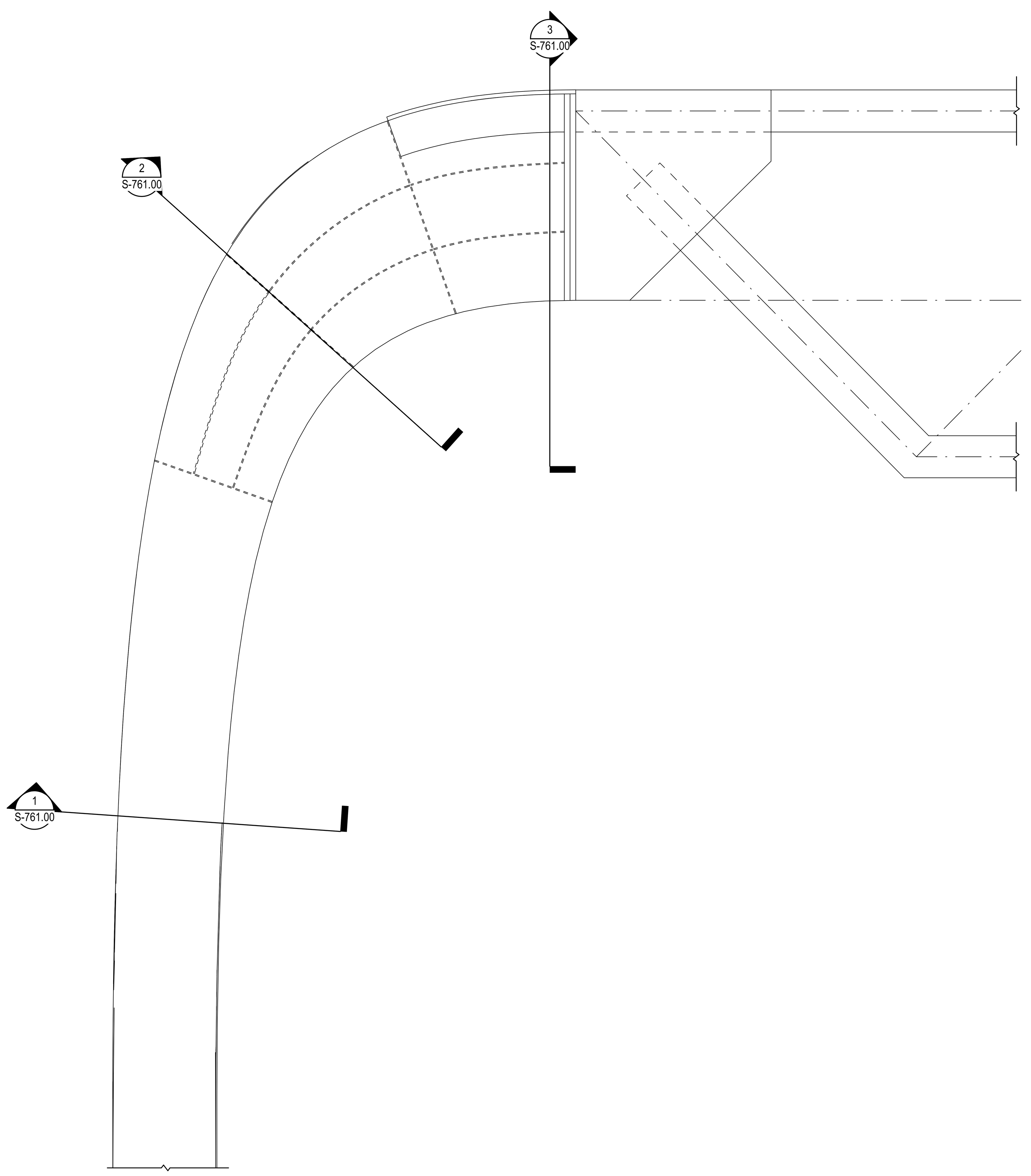
2 AXONOMETRIC
1 1/2" = 1'-0"



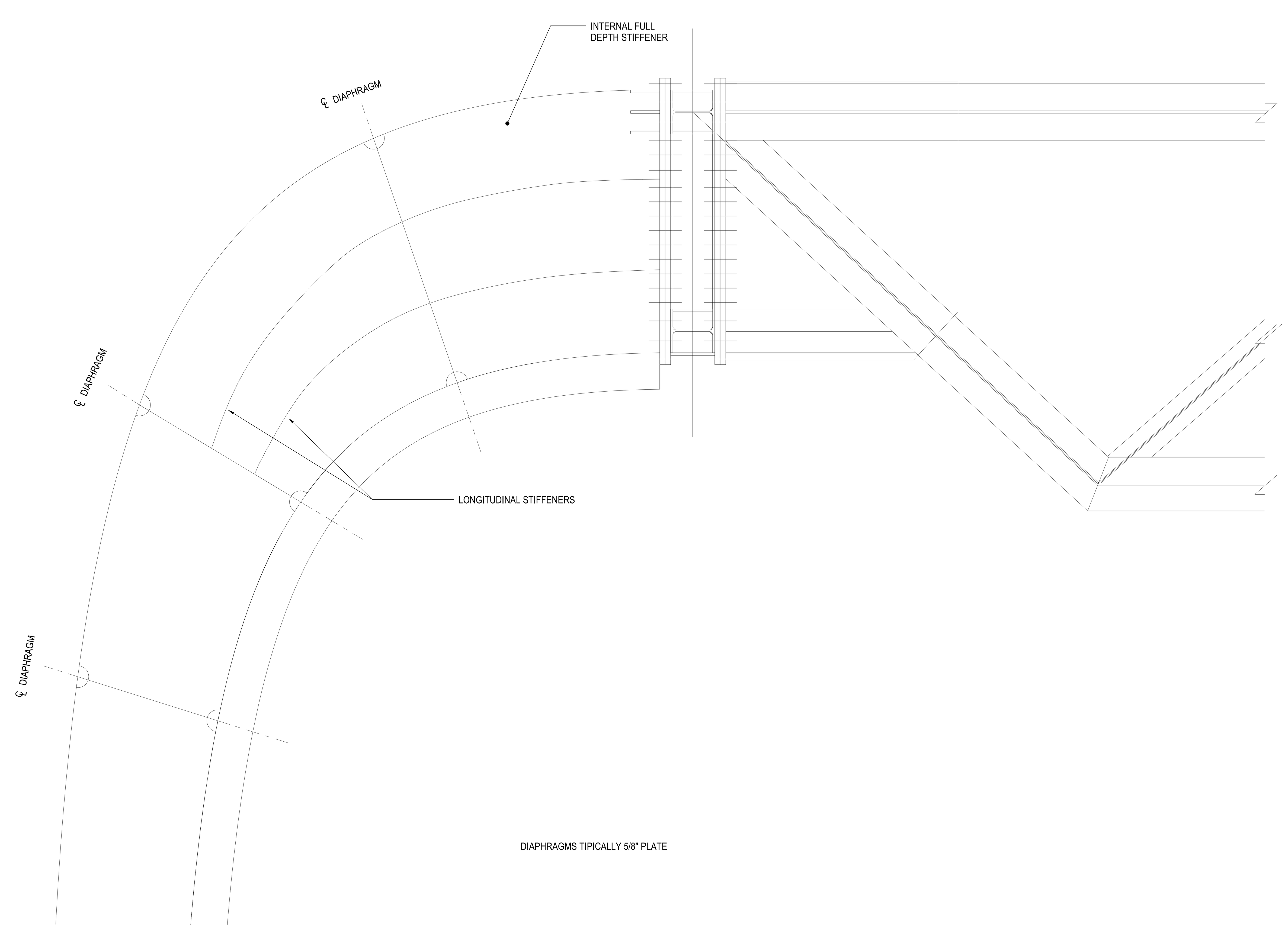
3 PARTIAL PLAN VIEW
1" = 1'-0"



5 SECTION BB
3/4" = 1'-0"



1 PARTIAL ELEVATION (LOOKING WEST) A-A
1/2" = 1'-0"



4 SECTION DD
3/4" = 1'-0"

Damian Titus
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APPROVED
Under Directive 2 of 1975
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Date: 07/15/2016
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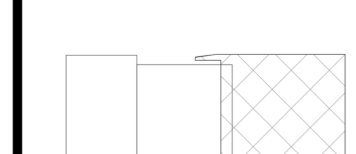
KEY PLAN



ISSUE △		PRINTING	DATE
44	33	DOB AMENDMENT 5	04.08.2016
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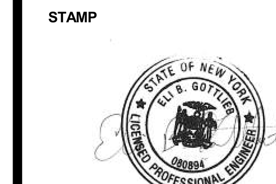

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PROJECT NUMBER
N11318.00

TITLE
DETAILS, DEPLOYED SHED NORTH/SOUTH WALL - CURVED SECTIONS

DRAWING NO.
S-760.00

B-SCAN NO.
S-760.00

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DEPT OF BLDGS 121192397 Job Number
ES028062414 Scan Code

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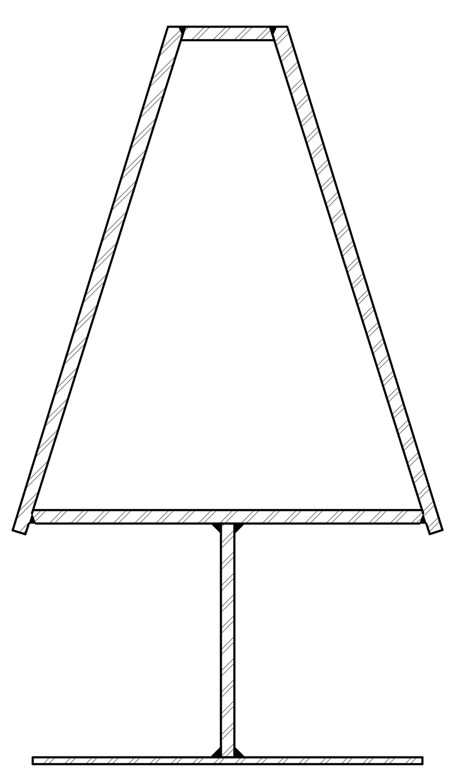
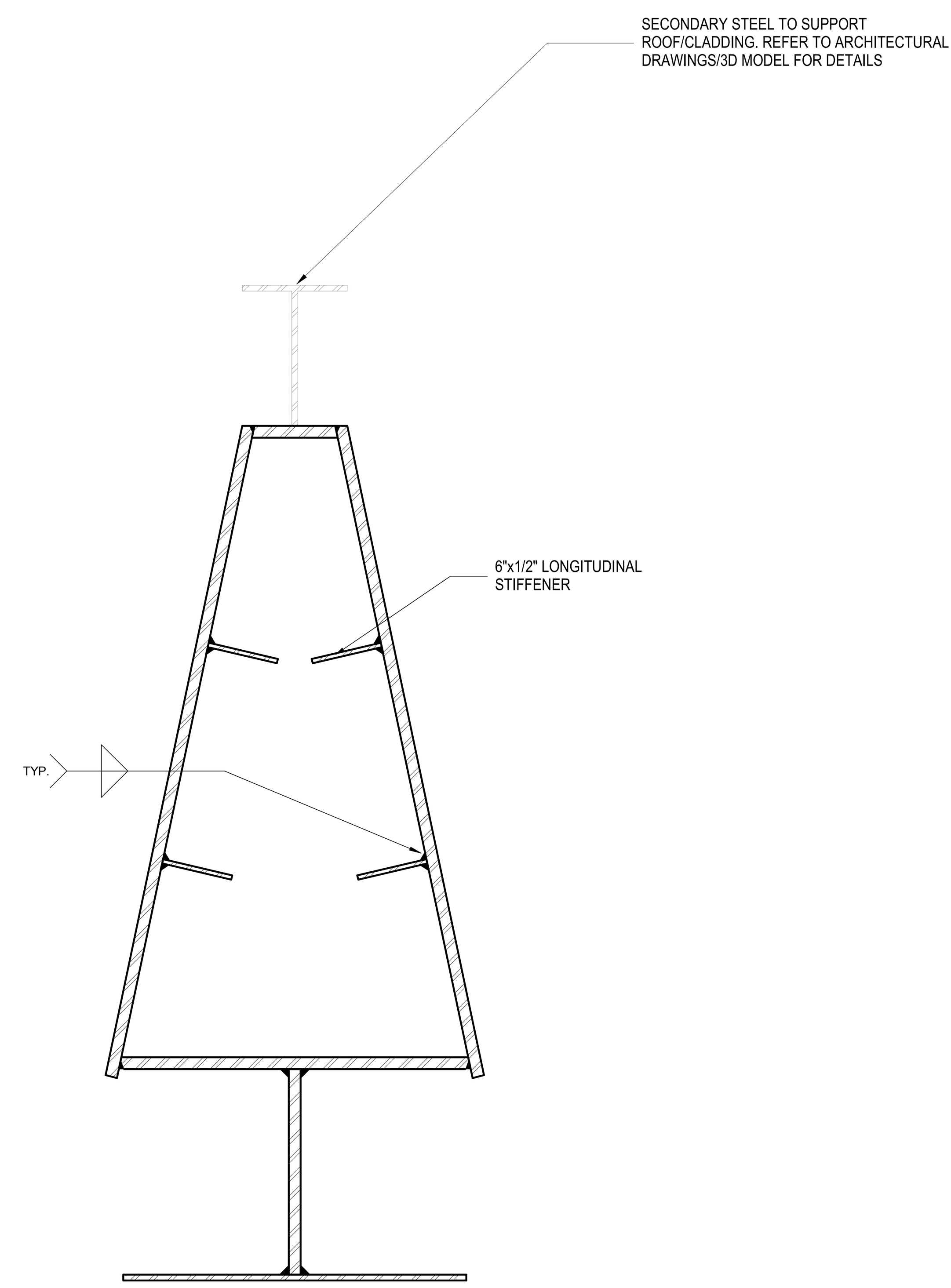
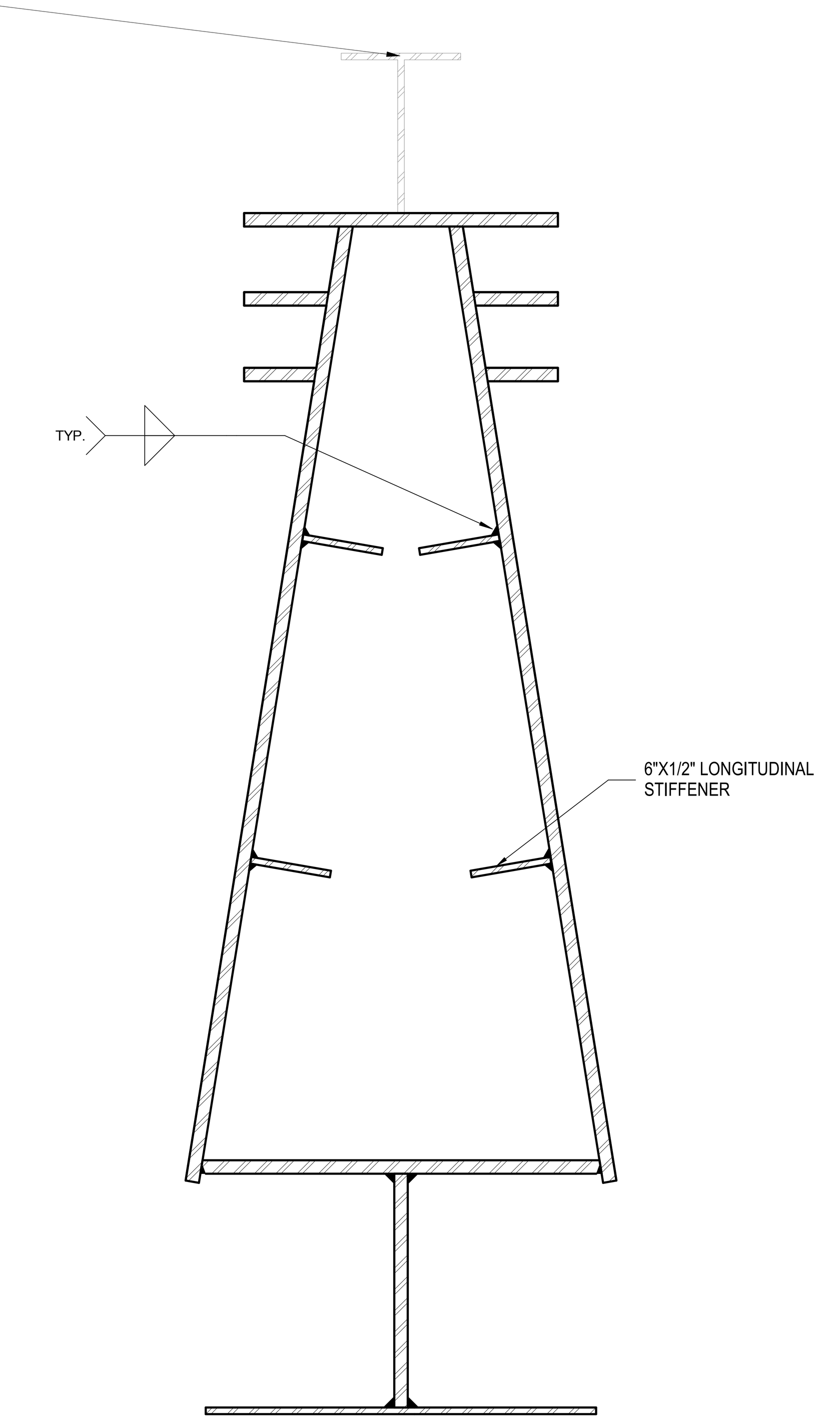


1 **TYPICAL VERTICAL SECTION**
1 1/2" = 1'-0"



2 **TYPICAL SECTION AT DIAPHRAGM**
1 1/2" = 1'-0"



3 **SECTION 3**
1 1/2" = 1'-0"

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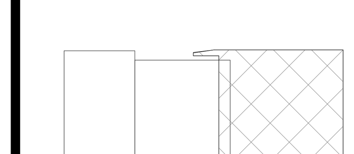
KEY PLAN



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STATE OF NEW YORK
ELI B. GOTTLIEB
080894
LICENSED PROFESSIONAL ENGINEER

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWN BY
Author

CHECKED BY
Checker

PROJECT NUMBER
N11318.00

TITLE

DETAILS, DEPLOYED SHED NORTH/SHOUTH WALLS - CURVED SECTION DETAILS

DRAWING NO.
S-761.00

B-SCAN NO.
S-761.00

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DEPT OF BLDGS 421300297 Job Number
ESX4787E40 Scan Code

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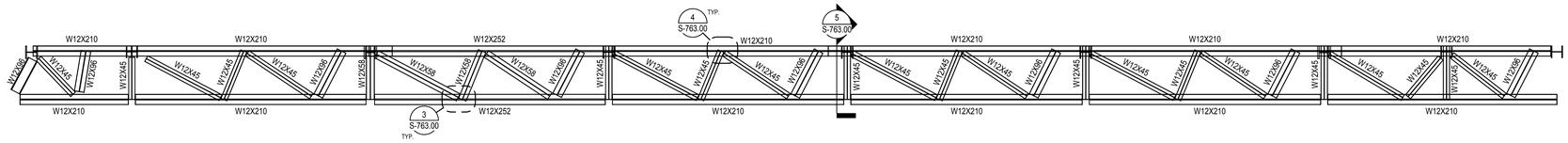
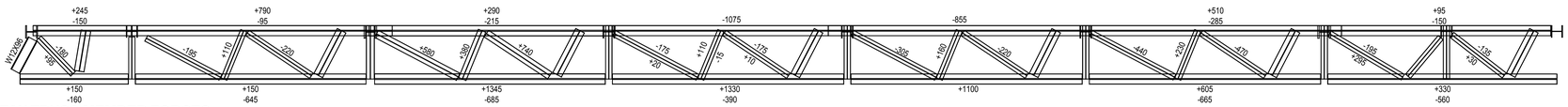
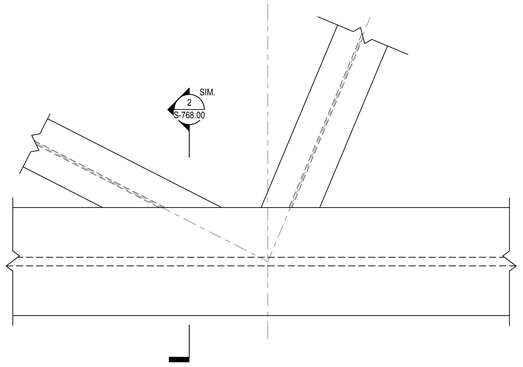


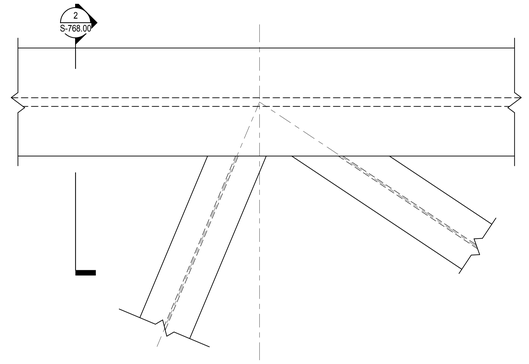
1 E/W TRUSS MEMBER SIZES
3/16" = 1'-0"



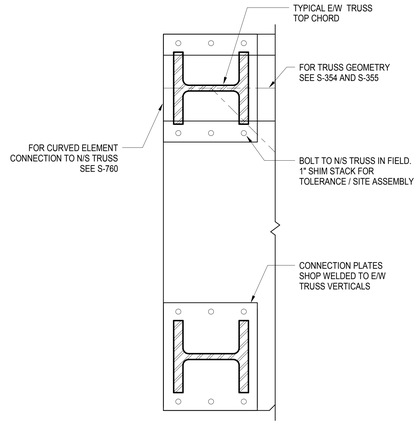
2 E/W TRUSS MEMBER FORCES
3/16" = 1'-0"



3 E/W TRUSS CONNECTION AT BOTTOM CHORD
1 1/2" = 1'-0"



4 E/W TRUSS CONNECTION AT TOP CHORD
1 1/2" = 1'-0"



5 E/W TRUSS CONNECTION AT SPLICE POINTS
1" = 1'-0"

Damian Titus
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Date: 07/15/2016
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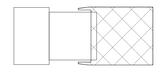

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PROJECT NUMBER
N11318.00

TITLE
DETAILS, DEPLOYED SHED NORTH/SOUTH WALLS - E-W TRUSSES

DRAWING NO.
S-763.00

B-SCAN NO.
S-763.00

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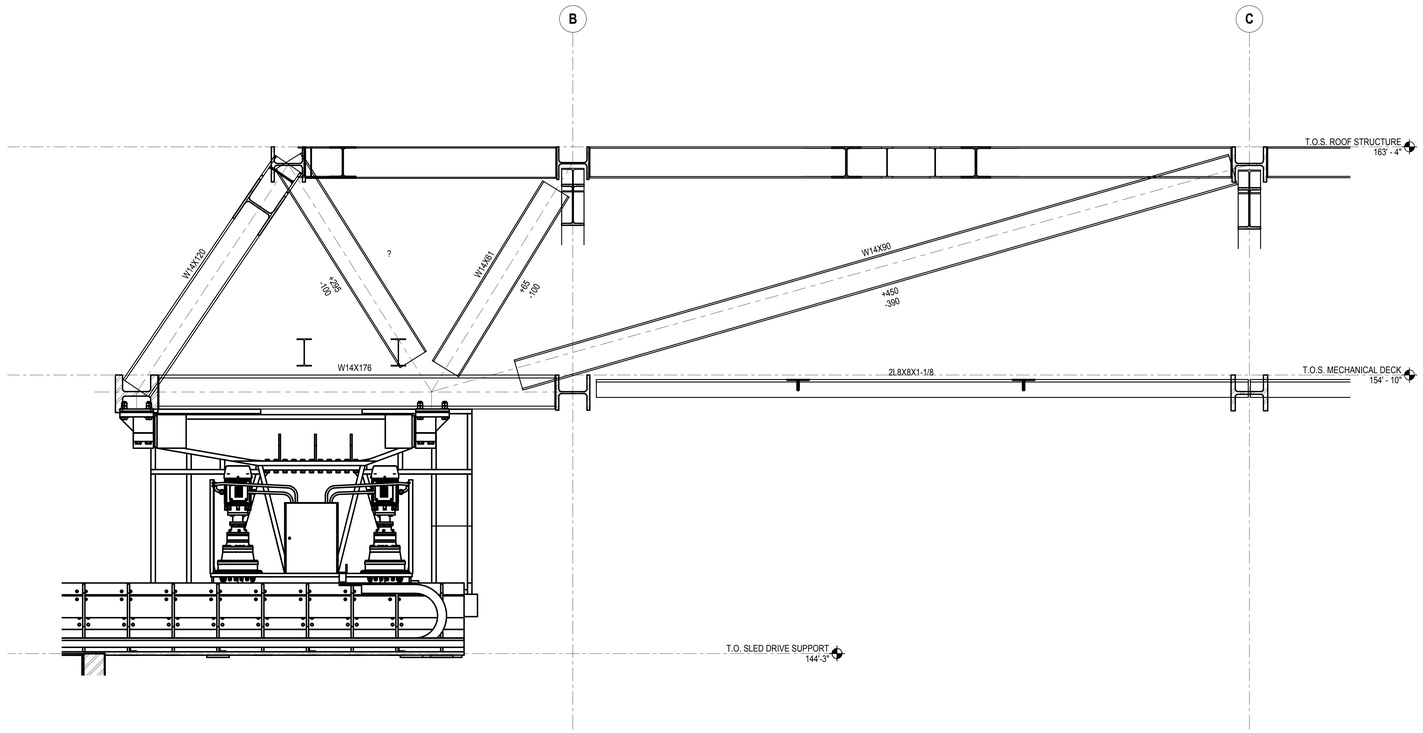

1 SHED DRIVE CONNECTION
1/2" = 1'-0"

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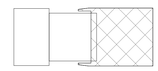

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DETAILS, DEPLOYED SHED DRIVE CONNECTION

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DRAWING NO.
S-764.00

B-SCAN NO.
S-764.00

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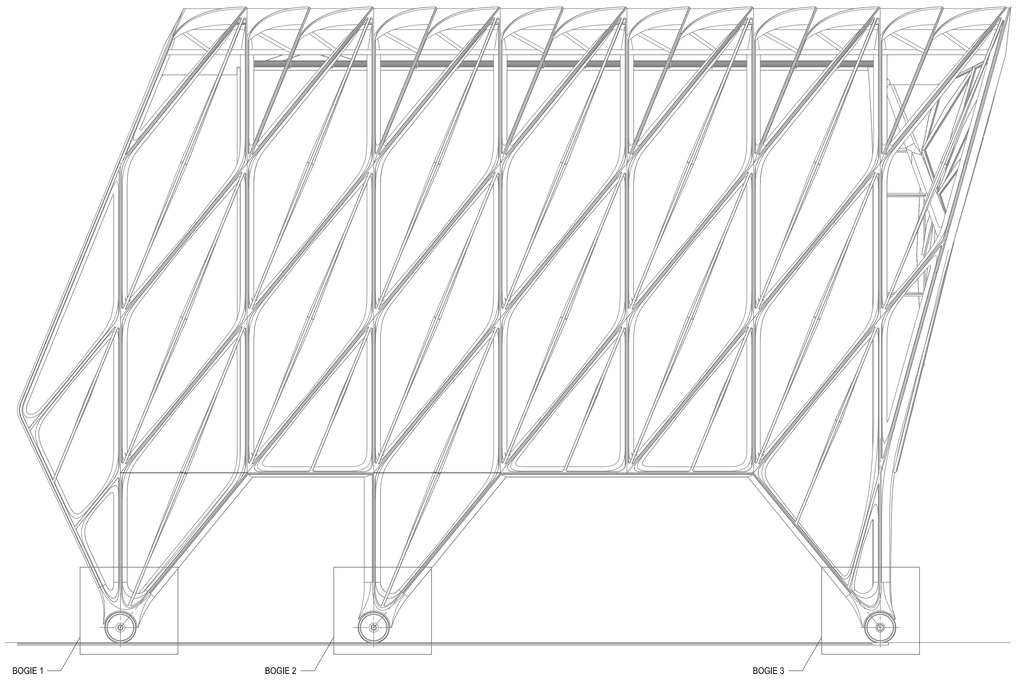
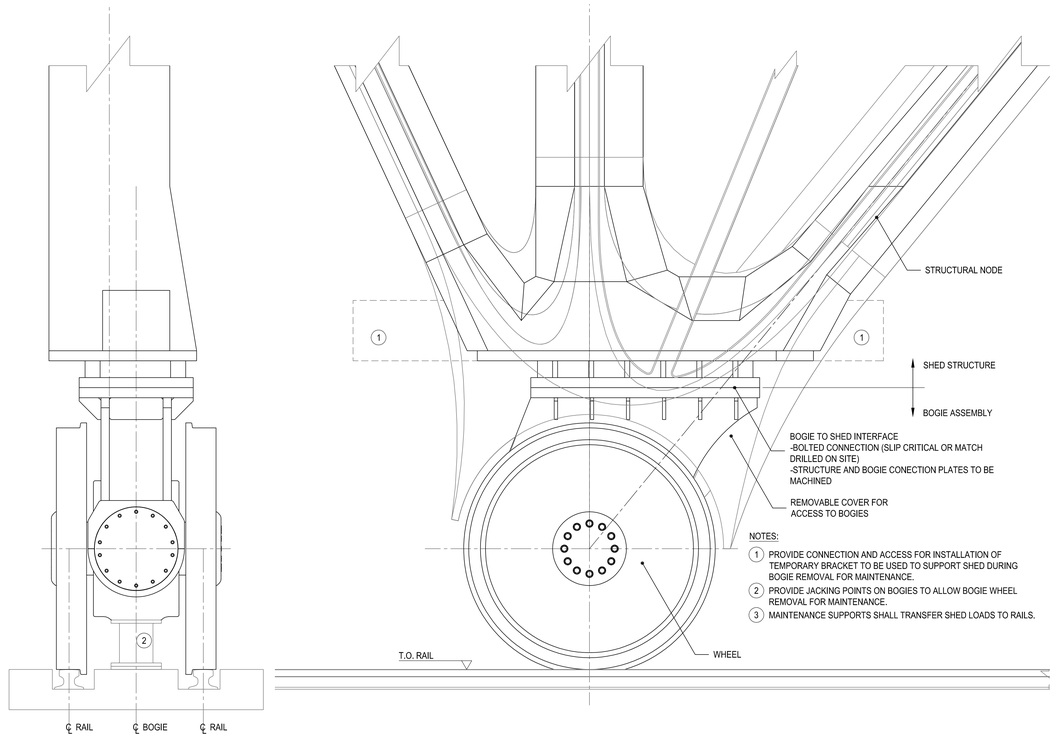
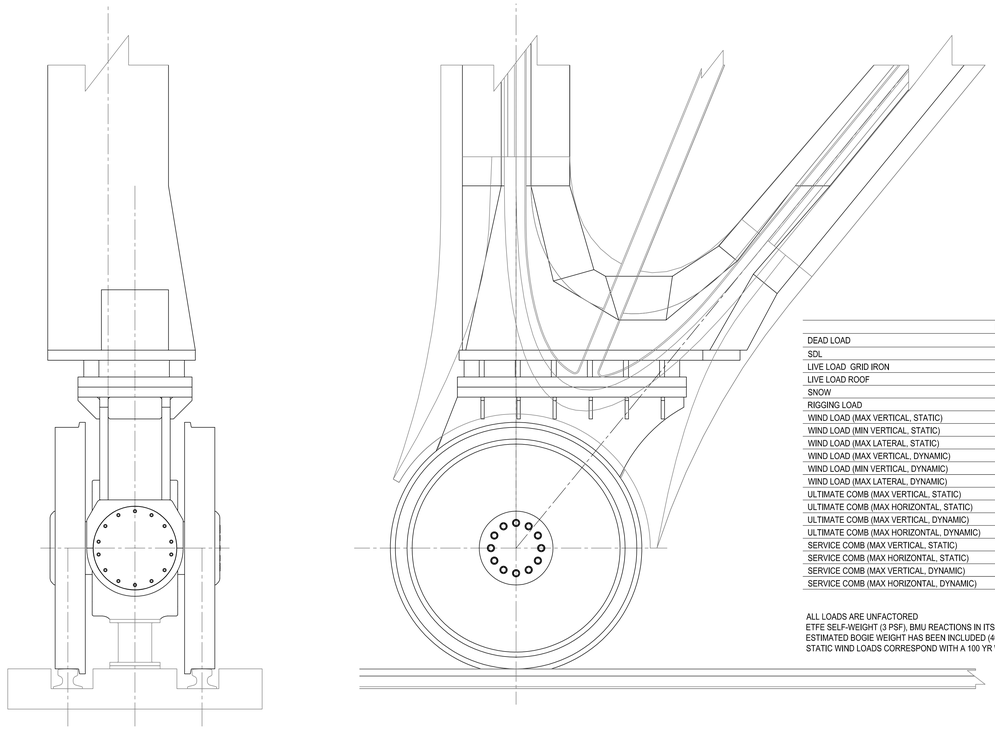


1 SOUTH ELEVATION
3/32" = 1'-0"



2 BOGIE 1
3/4" = 1'-0"



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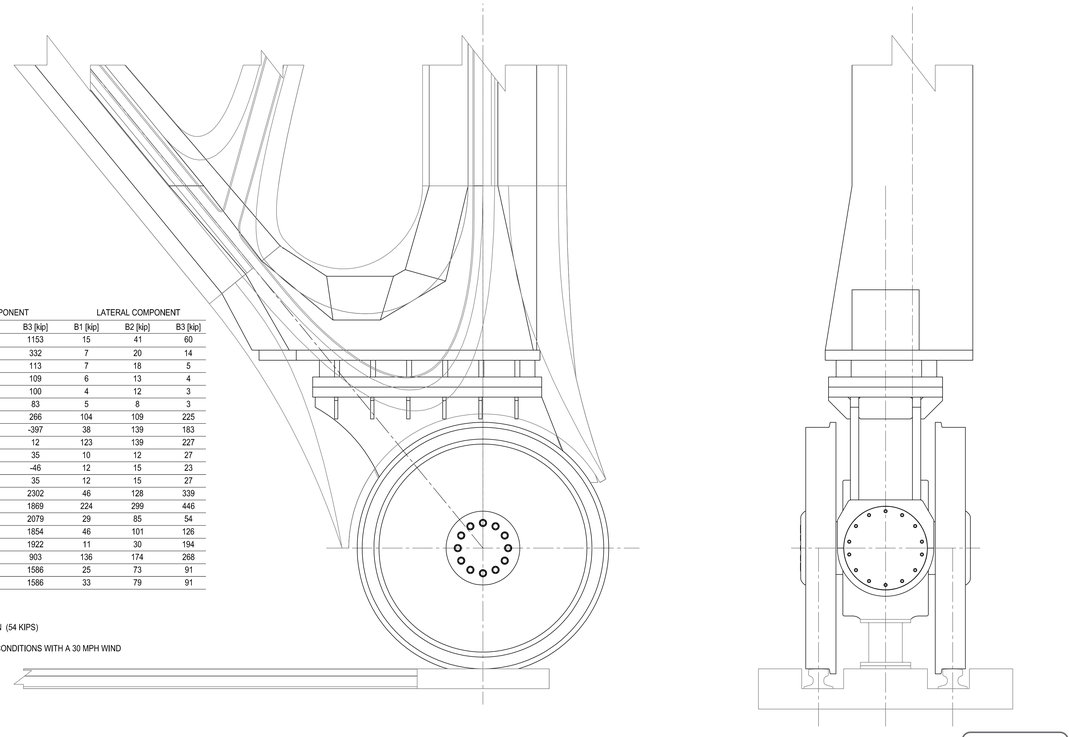
SDL	82	242	332	7	20	14
LIVE LOAD GRID IRON	48	117	113	7	18	5
LIVE LOAD ROOF	40	84	109	6	13	4
SNOW	29	77	100	4	12	3
RIGGING LOAD	31	68	83	5	8	3
WIND LOAD (MAX VERTICAL, STATIC)	61	158	266	104	109	225
WIND LOAD (MIN VERTICAL, STATIC)	-46	-260	-397	38	139	183
WIND LOAD (MAX LATERAL, STATIC)	17	-260	12	123	139	227
WIND LOAD (MAX VERTICAL, DYNAMIC)	12	5	35	10	12	27
WIND LOAD (MIN VERTICAL, DYNAMIC)	-6	-14	-46	12	15	23
WIND LOAD (MAX LATERAL, DYNAMIC)	-6	-14	35	12	15	27
ULTIMATE COMB (MAX VERTICAL, STATIC)	597	1423	2302	46	128	339
ULTIMATE COMB (MAX HORIZONTAL, STATIC)	510	738	1869	224	299	446
ULTIMATE COMB (MAX VERTICAL, DYNAMIC)	540	1285	2079	29	85	54
ULTIMATE COMB (MAX HORIZONTAL, DYNAMIC)	469	1118	1854	46	101	126
SERVICE COMB (MAX VERTICAL, STATIC)	499	1220	1922	11	30	194
SERVICE COMB (MAX HORIZONTAL, STATIC)	248	291	903	136	174	268
SERVICE COMB (MAX VERTICAL, DYNAMIC)	415	995	1586	25	73	91
SERVICE COMB (MAX HORIZONTAL, DYNAMIC)	404	965	1586	33	79	91

ALL LOADS ARE UNFACTORED
ETFE SELF-WEIGHT (3 PSF), BMU REACTIONS IN ITS REMAINING POSITION (54 KIPS)
ESTIMATED BOGIE WEIGHT HAS BEEN INCLUDED (40 KIPS)
STATIC WIND LOADS CORRESPOND WITH A 100 YR WIND AND DYNAMIC CONDITIONS WITH A 30 MPH WIND

3 BOGIE 2
3/4" = 1'-0"



4 BOGIE 3
3/4" = 1'-0"

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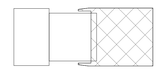
KEY PLAN



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1		ADVANCED PROCUREMENT BID SET	06.16.2014

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PROJECT NUMBER
N11318.00

TITLE
SHED TO BOGIE CONNECTION

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
S-765.00

B-SCAN NO.
S-765.00

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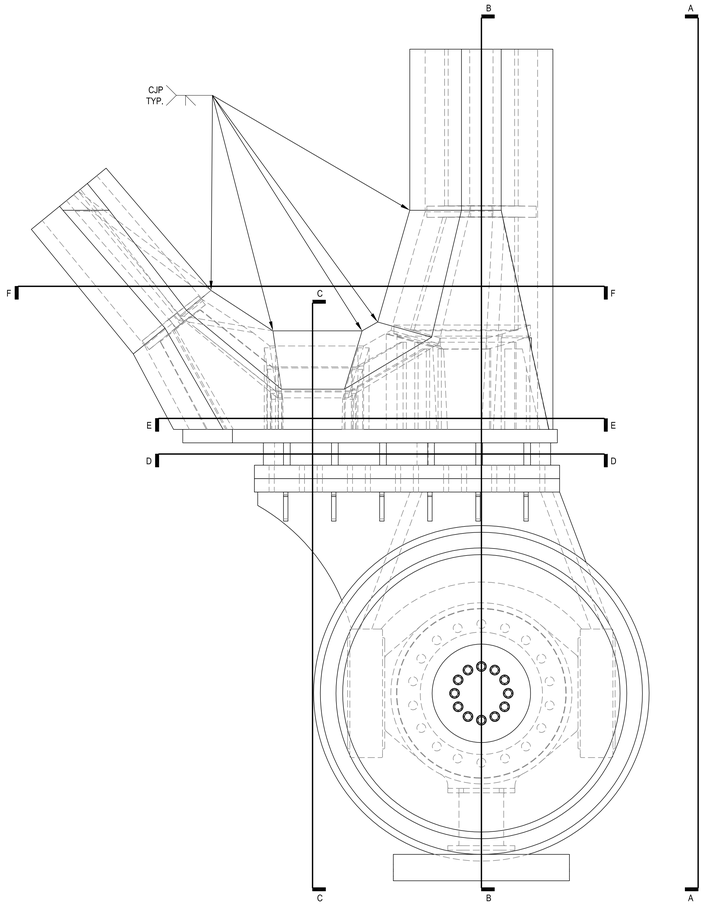
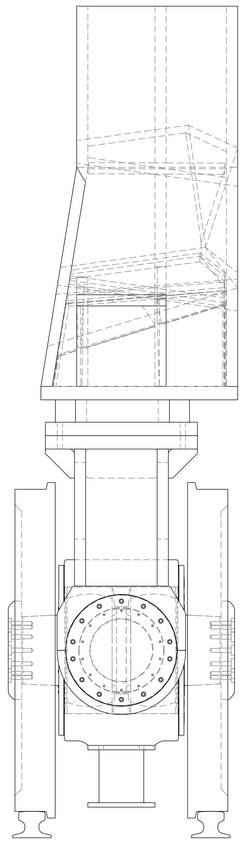


1 SOUTH ELEVATION
1" = 1'-0"



2 VIEW A-A
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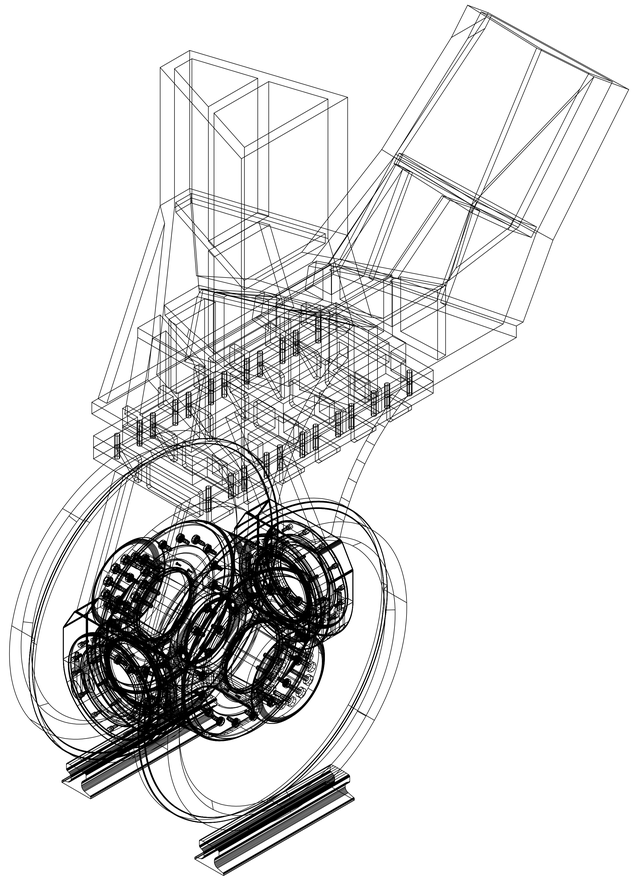

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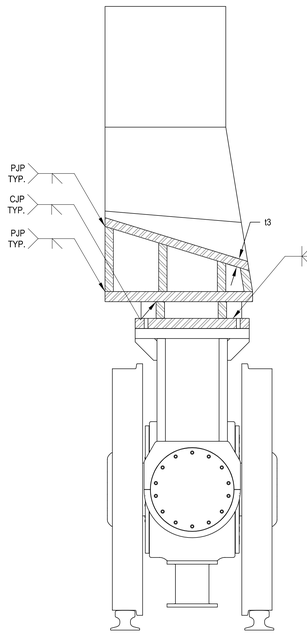
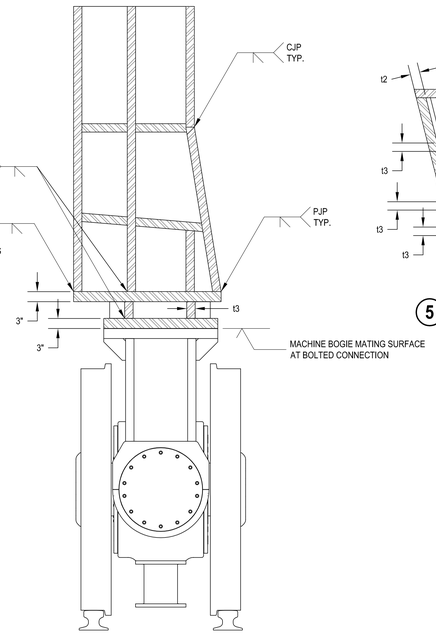
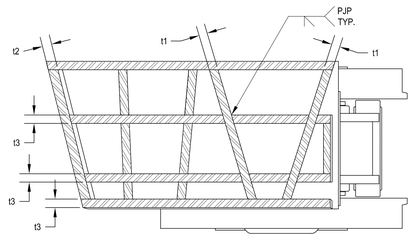


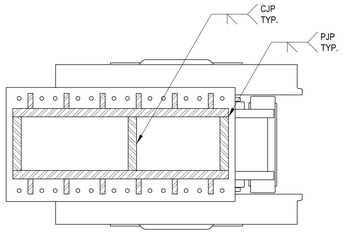
3 SECTION B-B
3/4" = 1'-0"



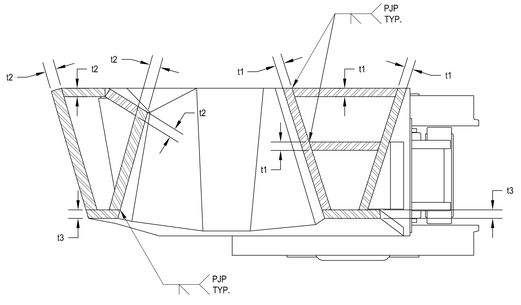
4 SECTION C-C
3/4" = 1'-0"



5 SECTION E-E
3/4" = 1'-0"



6 SECTION D-D
3/4" = 1'-0"



7 SECTION F-F
3/4" = 1'-0"

NOTES:
-GEOMETRY IS BASED ON WELDED CONSTRUCTION FROM FLAT PLATES
-INTERNAL PLATE CONFIGURATION AND WELD SEQUENCE TO BE DEVELOPED DURING DESIGN ASSIST PHASE
-PLATE THICKNESS IS 2 INCH UNLESS NOTED
-CASTINGS MAY BE PROPOSED AS AN ALTERNATE, SUBJECT TO AGREEMENT WITH THE ARCHITECT AND SER. REFER TO SPECIFICATION AND ARCHITECTURAL DRAWINGS FOR THE INTERFACE BETWEEN THE CASTING AND STEELWORK (I.E. THE REVEAL).

THICKNESS	t1 [in]	t2 [in]
BOGIE B1	3/4	5/8
BOGIE B2	2	2 1/4
BOGIE B3	2 1/2	1

t3 = MAX (t1, t2)

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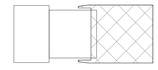

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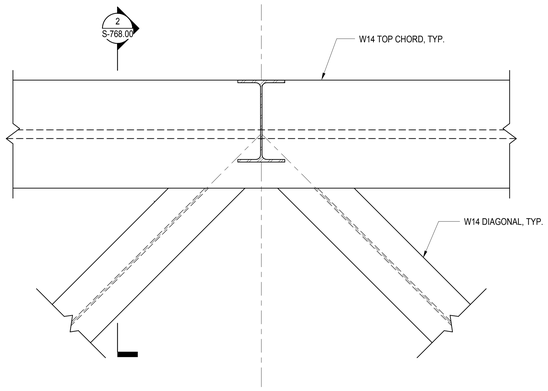
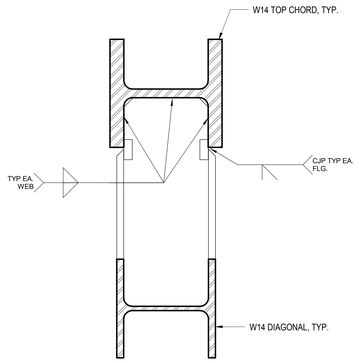
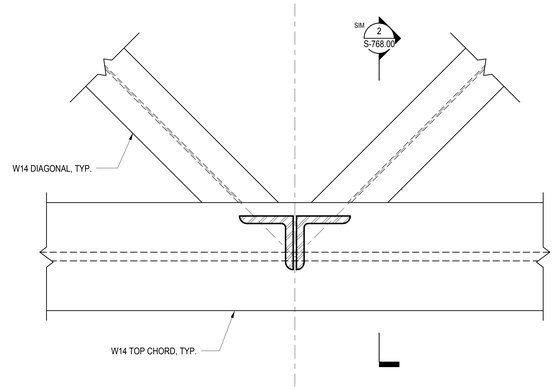


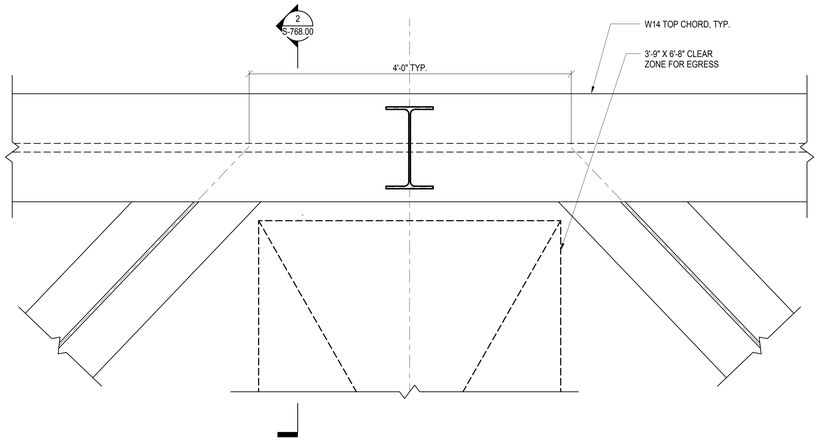
1 TYPICAL TRUSS CONNECTION AT TOP CHORD
1 1/2" = 1'-0"



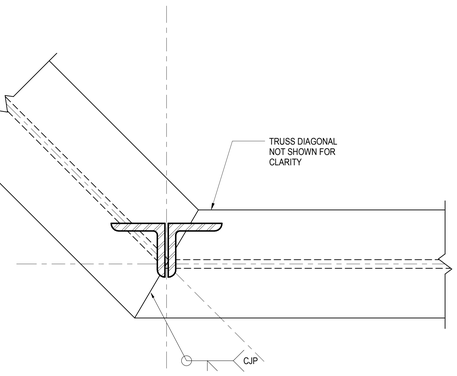
2 TYPICAL TRUSS DIAGONAL CONNECTION
1 1/2" = 1'-0"



3 TYPICAL TRUSS CONNECTION AT BOTTOM CHORD
1 1/2" = 1'-0"



4 TYPICAL TRUSS CONNECTION AT WALKWAY
1 1/2" = 1'-0"



5 TYPICAL BOTTOM CHORD END CONNECTION
1 1/2" = 1'-0"

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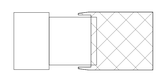

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TITLE

DETAILS, DEPLOYED SHED NORTH/SOUTH WALLS - N-S TRUSSES

DRAWING NO.
S-768.00

B-SCAN NO.
S-768.00

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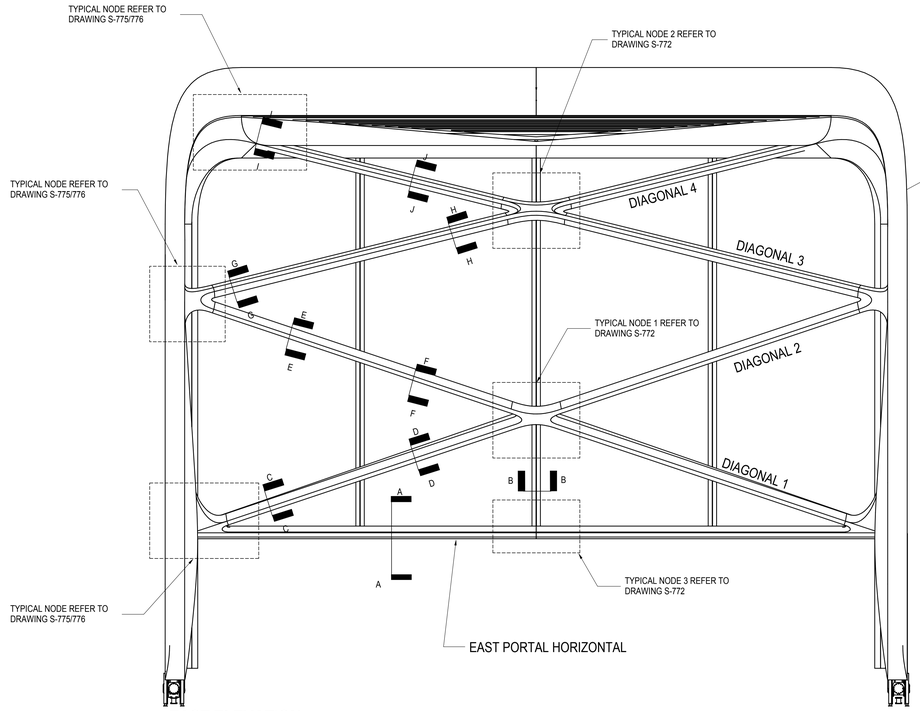
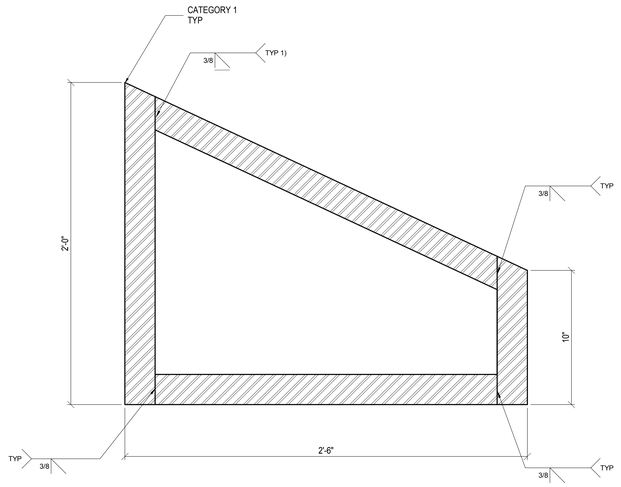


1 EAST ELEVATION
3/32" = 1'-0"



2 SECTION AA
3" = 1'-0"

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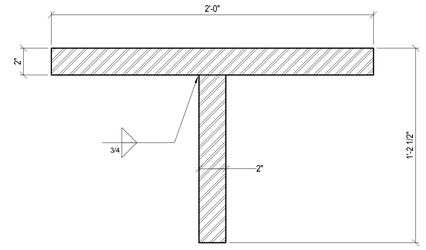
ELEMENT	PLATE THICKNESS
EAST PORTAL HORIZONTAL	2 1/4"
DIAGONAL 1	1 1/4"
DIAGONAL 2	1"
DIAGONAL 3	3/4"
DIAGONAL 4	3/4"

6 EAST WALL PLATE THICKNESSES
1 1/2" = 1'-0"

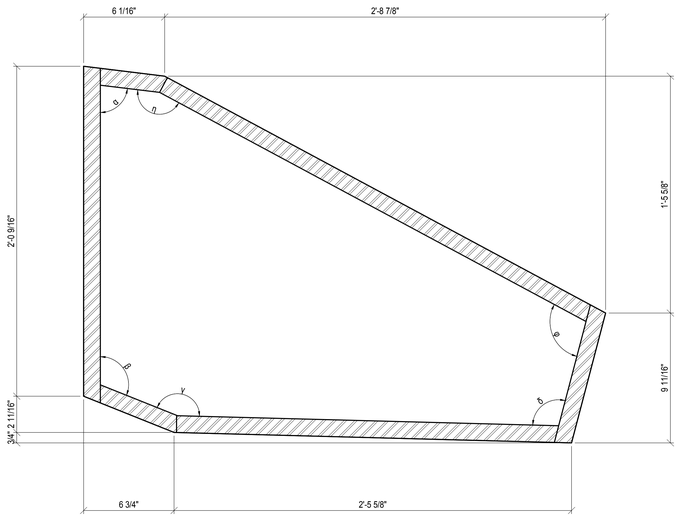


3 SECTION BB
3" = 1'-0"

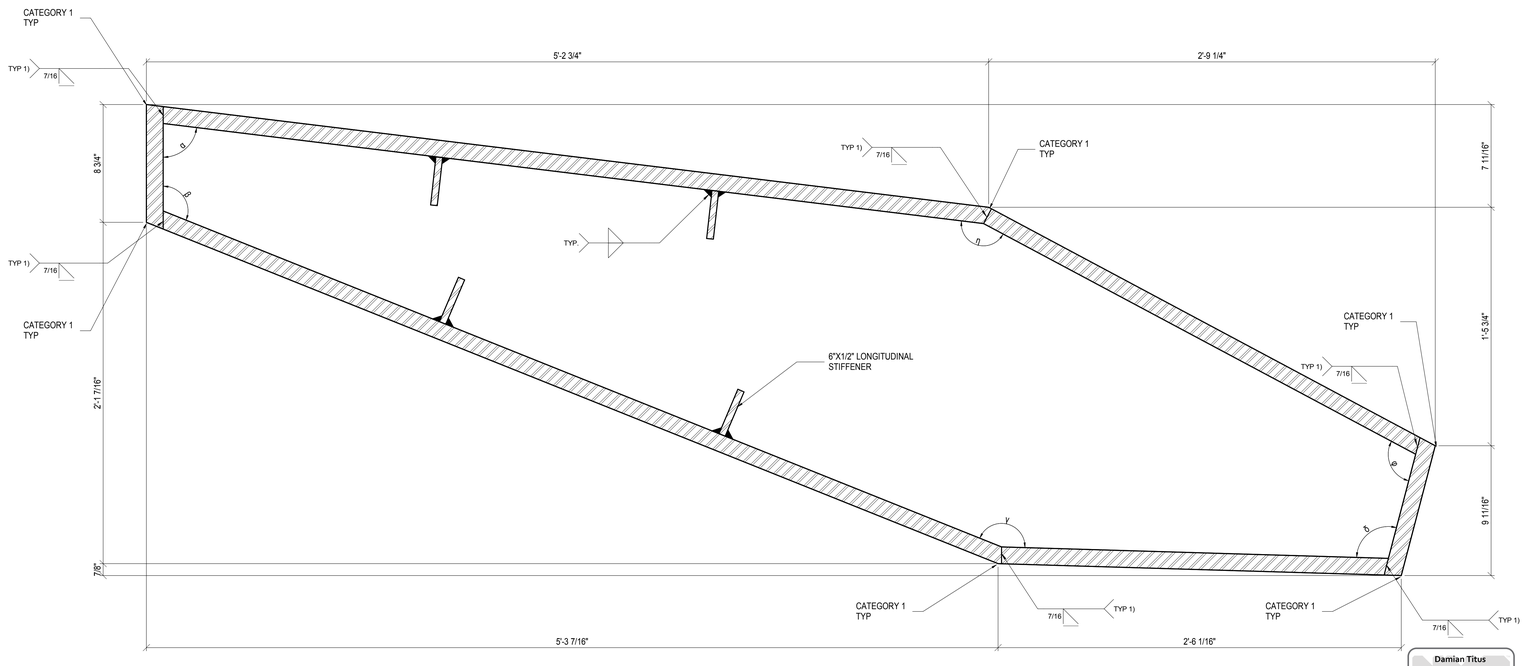
CATEGORY I CORNERS: ALL CORNERS MARKED CATEGORY I TO HAVE A SHARP CONTINUOUS EDGE WITH STRAIGHTNESS TO WITHIN +/- 1/16"
ALL CORNERS MAY HAVE A 0.08" RADIUS

1) EXPOSED EDGE WITH CONTINUOUS AND CONSISTENT FINISH REQUIRED, EVEN ACROSS SPLICES FOR NODE WELD DETAILS SEE DRAWING S-755

WELD SIZES SHOWN AS TYPICAL BETWEEN NODES. IN NODES ALL WELDS ASSUMED TO BE FULL CAPACITY.



4 SECTION CC
3" = 1'-0"



5 SECTION DD
3" = 1'-0"

NOTES: EAST WALL SECTIONS VARY OVER LENGTH WITH SIMILAR COMPLEXITY TO DIAGONALS ON NORTH AND SOUTH WALL - REFER TO S-750

ALL EAST WALL SECTIONS SIMILAR U.O.N.

ALLOW FOR INTERNAL DIAPHRAGMS AT 8' C/C TYPICALLY

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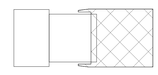
KEY PLAN



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44	33	DOB AMENDMENT 5	04.08.2016
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1		ADVANCED PROCUREMENT BID SET	06.16.2014

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PROJECT NUMBER
N11318.00

TITLE
DETAILS DEPLOYED SHED EAST WALL I

DRAWING NO.
S-770.00

B-SCAN NO.
S-770.00

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E507185935 Scan Code

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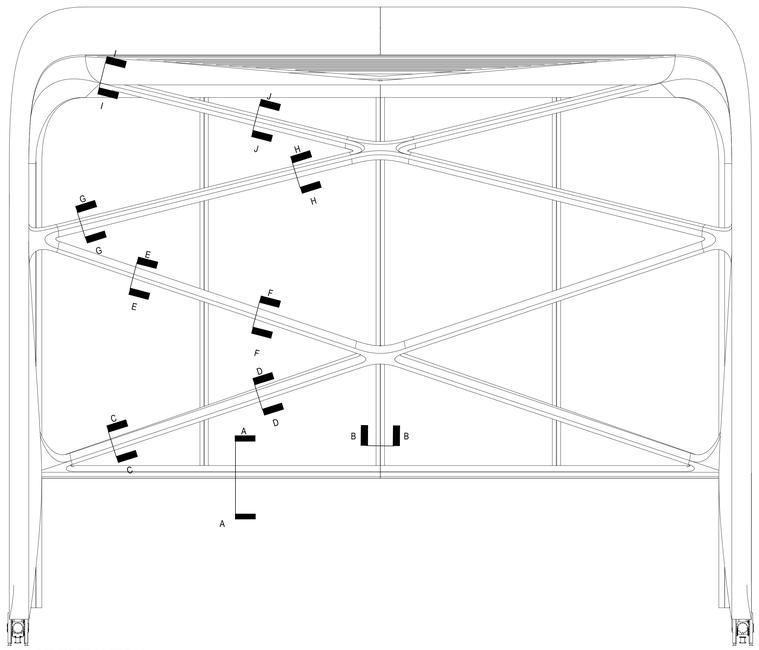
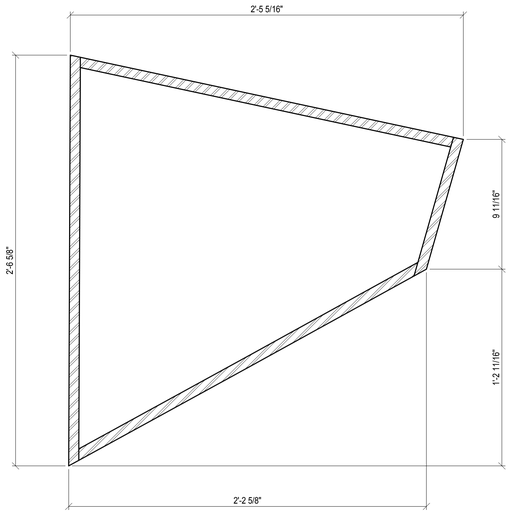
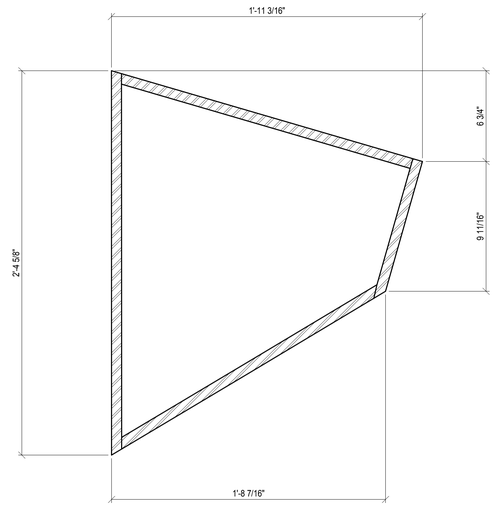


1 EAST ELEVATION
3/32" = 1'-0"



4 SECTION GG
3" = 1'-0"



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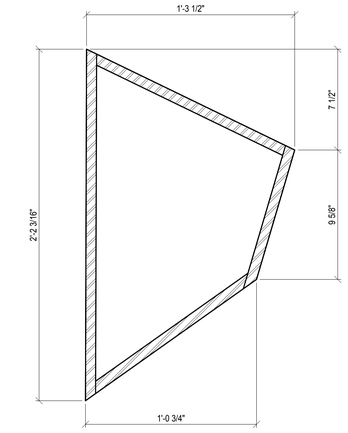

6 S-771-SECTION II
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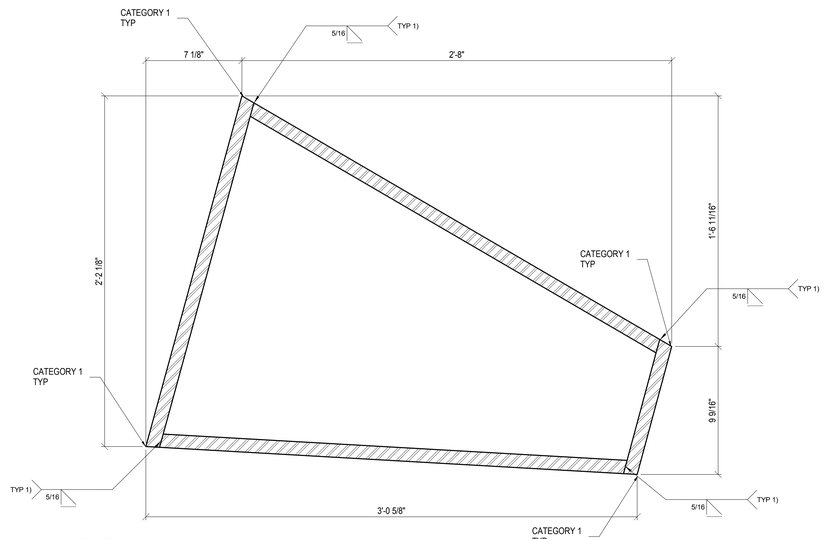

3 SECTION FF
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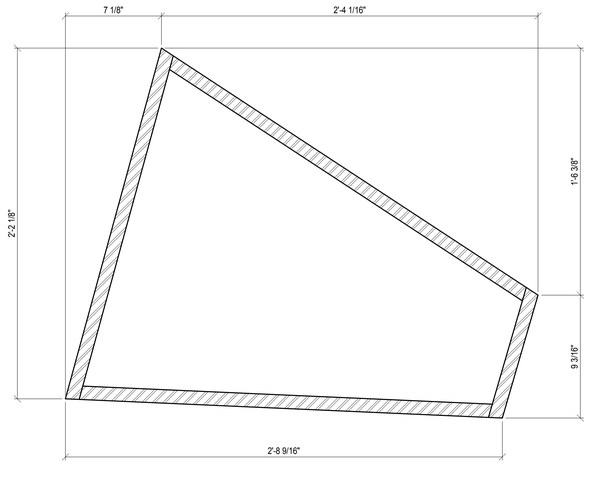
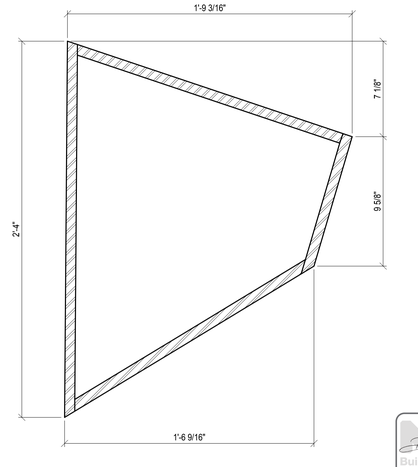


2 SECTION EE
3" = 1'-0"



7 S-771-SECTION JJ
3" = 1'-0"

CATEGORY I CORNERS: ALL CORNERS MARKED CATEGORY I TO HAVE A SHARP CONTINUOUS EDGE WITH STRAIGHTNESS TO WITHIN +/- 1/16"
ALL CORNERS MAY HAVE A 0.08" RADIUS

1) EXPOSED EDGE WITH CONTINUOUS AND CONSISTENT FINISH REQUIRED, EVEN ACROSS SPLICES FOR NODE WELD DETAILS SEE DRAWING S-755

NOTES: EAST WALL SECTIONS VARY OVER LENGTH WITH SIMILAR COMPLEXITY TO DIAGONALS ON NORTH AND SOUTH WALL - REFER TO S-750

ALL EAST WALL SECTIONS SIMILAR U.O.N.

ALLOW FOR INTERNAL DIAPHRAGMS AT 8' C/C TYPICALLY

REFER TO S-770 FOR PLATE THICKNESSES

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OWNER
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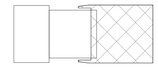

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PROJECT NUMBER
N11318.00

TITLE
DETAILS DEPLOYED SHED EAST WALL II

DRAWING NO.
S-771.00

B-SCAN NO.
S-771.00

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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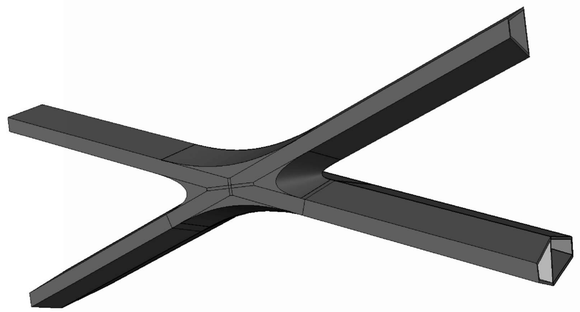
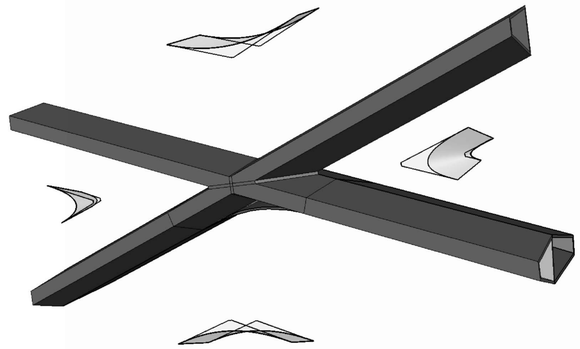
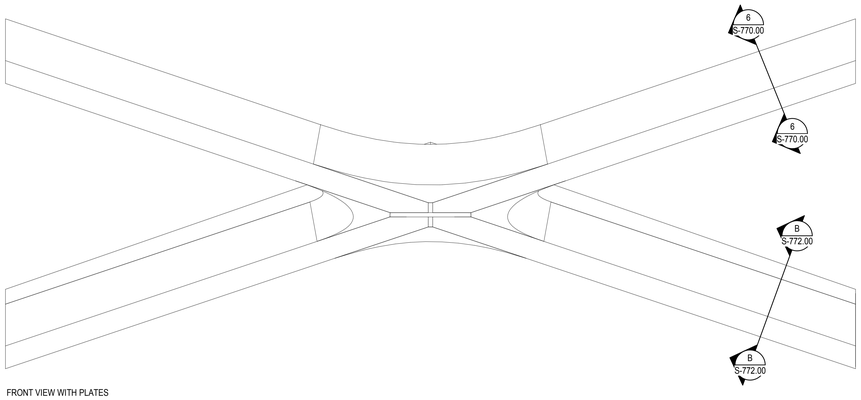
ES4347200B9 Scan Code

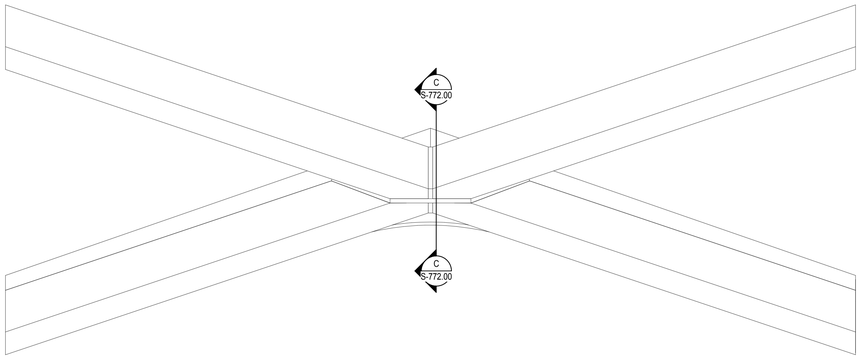




1 PERSPECTIVES
3" = 1'-0"



FRONT VIEW WITH PLATES



FRONT VIEW WITHOUT PLATES

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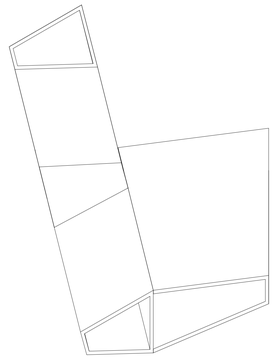
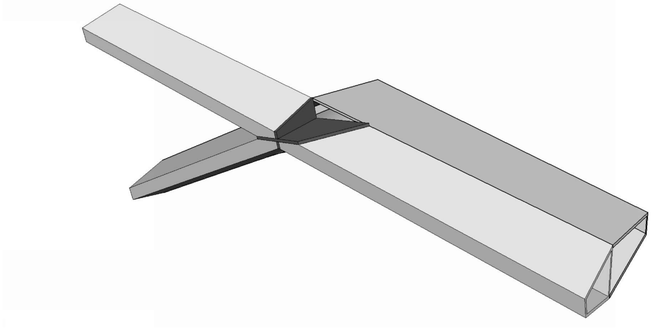
THE GEOMETRY CREATED BY THE INTERSECTING ELEMENTS SHALL BE IN ACCORDANCE WITH THE 3D MODEL. THE LEVEL OF QUALITY IS TO BE SIMILAR TO THE COMISSIONED MOCK-UP FOR THE TYPICAL NODE. THE GENERAL CONCEPT IS THAT EDGES FLOW SMOOTHLY AND CONTINUOUSLY BETWEEN THE EDGE OF THE ELEMENT TO THE CORRESPONDING EDGE OF THE ADJASCENT ELEMENT AND THE INTERLYING SURFACES BETWEEN THESE EDGES ARE BLENDED AND CONTOURED TO DEFINE A SMOOTH, UNINTERRUPTED TRANSITION.



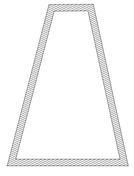
LATERAL VIEW WITH PLATES

4 EAST WALL_X NODE_PERSPECTIVES
1/2" = 1'-0"

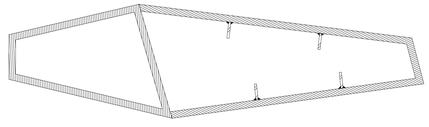
NOTE: PRIMARY STEEL MEMBERS ONLY SHOWN FOR CLARITY
INTERSECTION OF ELEMENTS TO INCLUDE CURVED INFILL
PLATES SIMILAR COMPLEXITY TO THE NODE SHOWN ON S-755



2 CONNECTION OF CENTER PLATES AND MEMBERS
1" = 50'-0"



A SECTION AA
1" = 1'-0"



B SECTION BB
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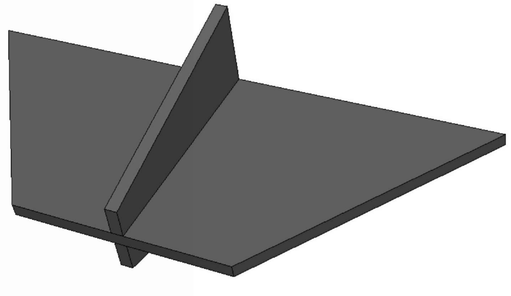
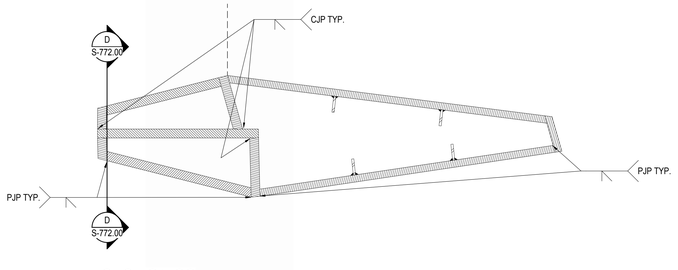


3 CENTER PLATES
1" = 30'-0"



C SECTION CC
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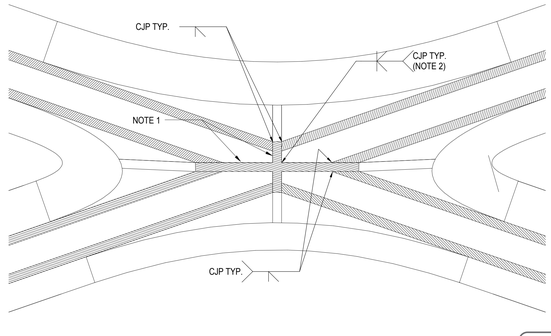

D SECTION DD
1" = 1'-0"

NOTE 1: INSPECT PLATE FOR PRE-EXISTING LAMINATIONS PER ASTM A578 (UT)
NOTE 2: UiE LOW HYDROGEN ELECTRODE. WELD THICKER PLATES FIRST TO REDUCE RESTRAINT AND USE PEENING

Damian Titus
Building Inspector
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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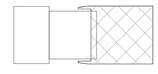

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DRAWN BY Author
CHECKED BY Checker

PROJECT NUMBER
N11318.00

TITLE
DETAILS, DEPLOYED SHED EAST WALL

DRAWING NO.
S-772.00

B-SCAN NO.
S-772.00

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B52043433 Scan Code

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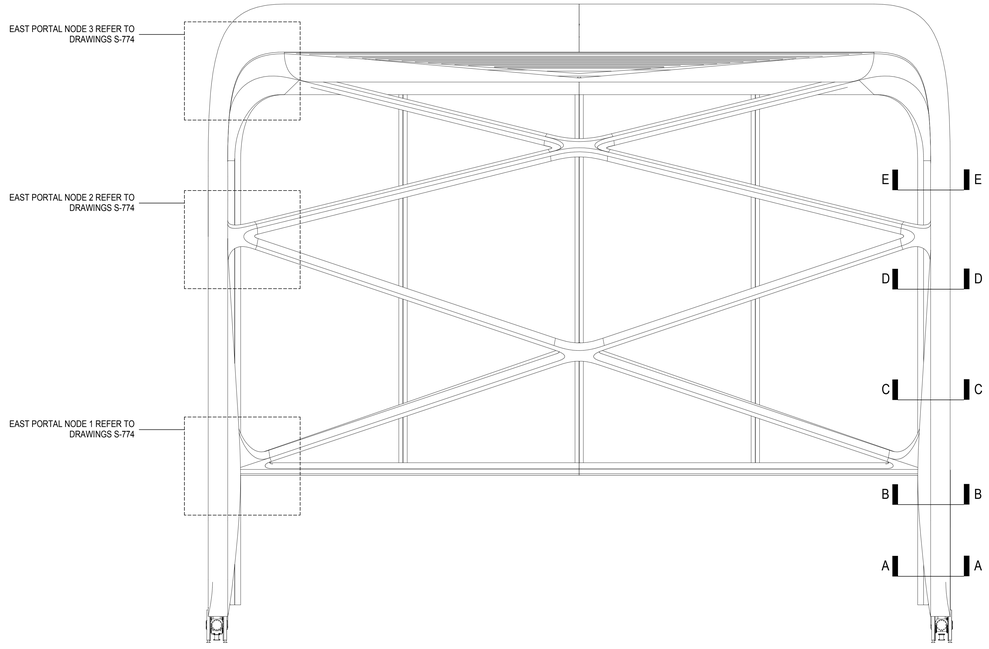

1 S-773-EAST ELEVATION
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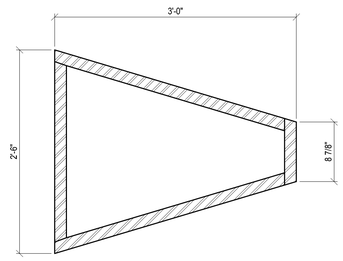
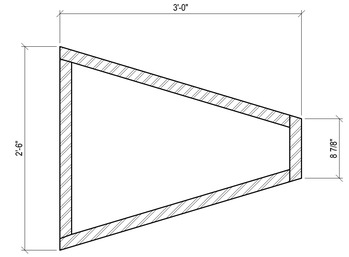


3 SECTION DD
1 1/2" = 1'-0"



4 SECTION EE
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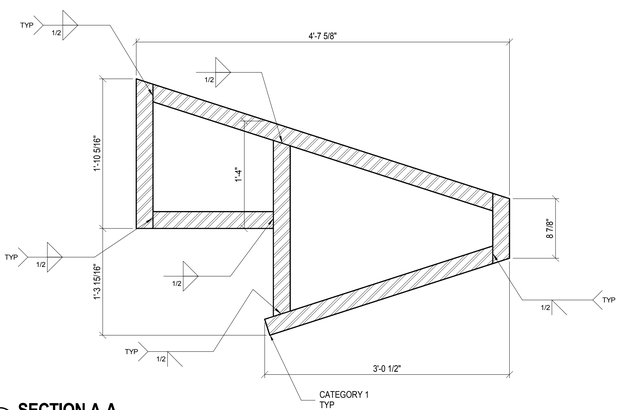

6 SECTION A-A
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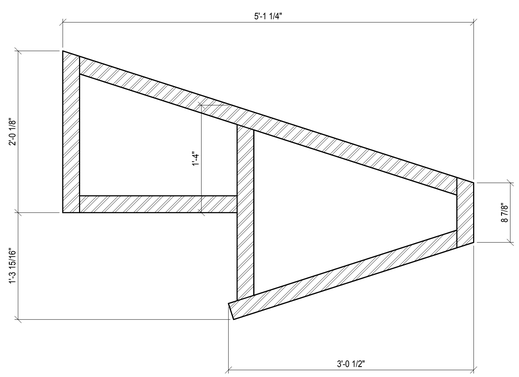

7 SECTION B-B
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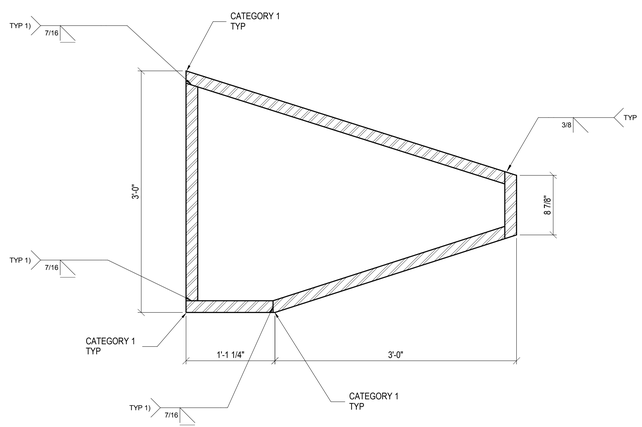

2 SECTION C-C
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1) EXPOSED EDGE WITH CONTINUOUS AND CONSISTENT FINISH REQUIRED, EVEN ACROSS SPLICES FOR NODE WELD DETAILS SEE DRAWING S-755

REFER TO S-751 FOR PLATE THICKNESSES

Damian Titus
Buildings
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Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
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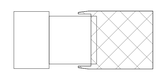
KEY PLAN



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1		ADVANCED PROCUREMENT BID SET	06.16.2014

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PROJECT NUMBER
N11318.00

TITLE

DETAILS, DEPLOYED SHED EAST PORTAL TYPICAL SECTIONS

DRAWING NO.
S-773.00

B-SCAN NO.
S-773.00

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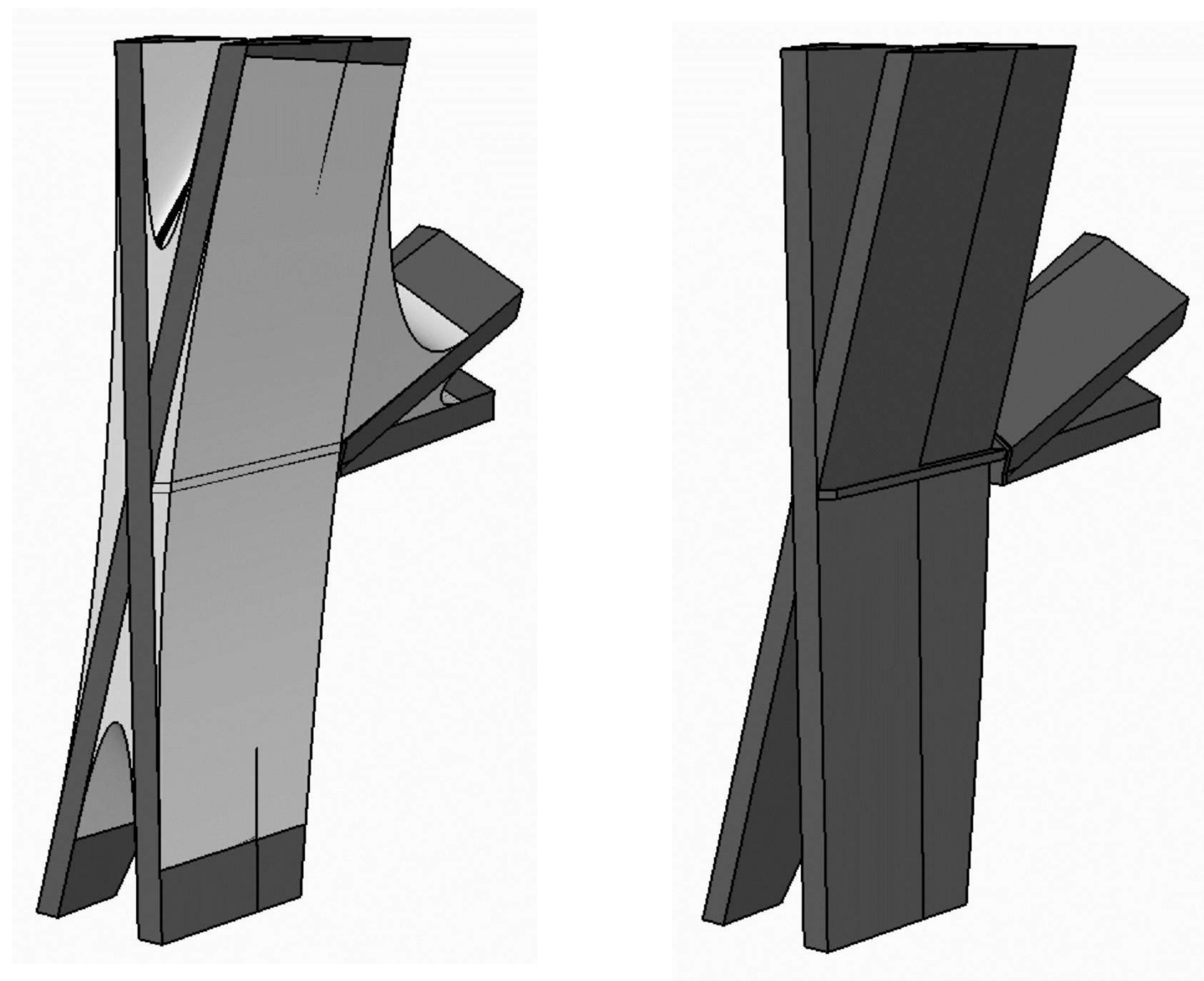
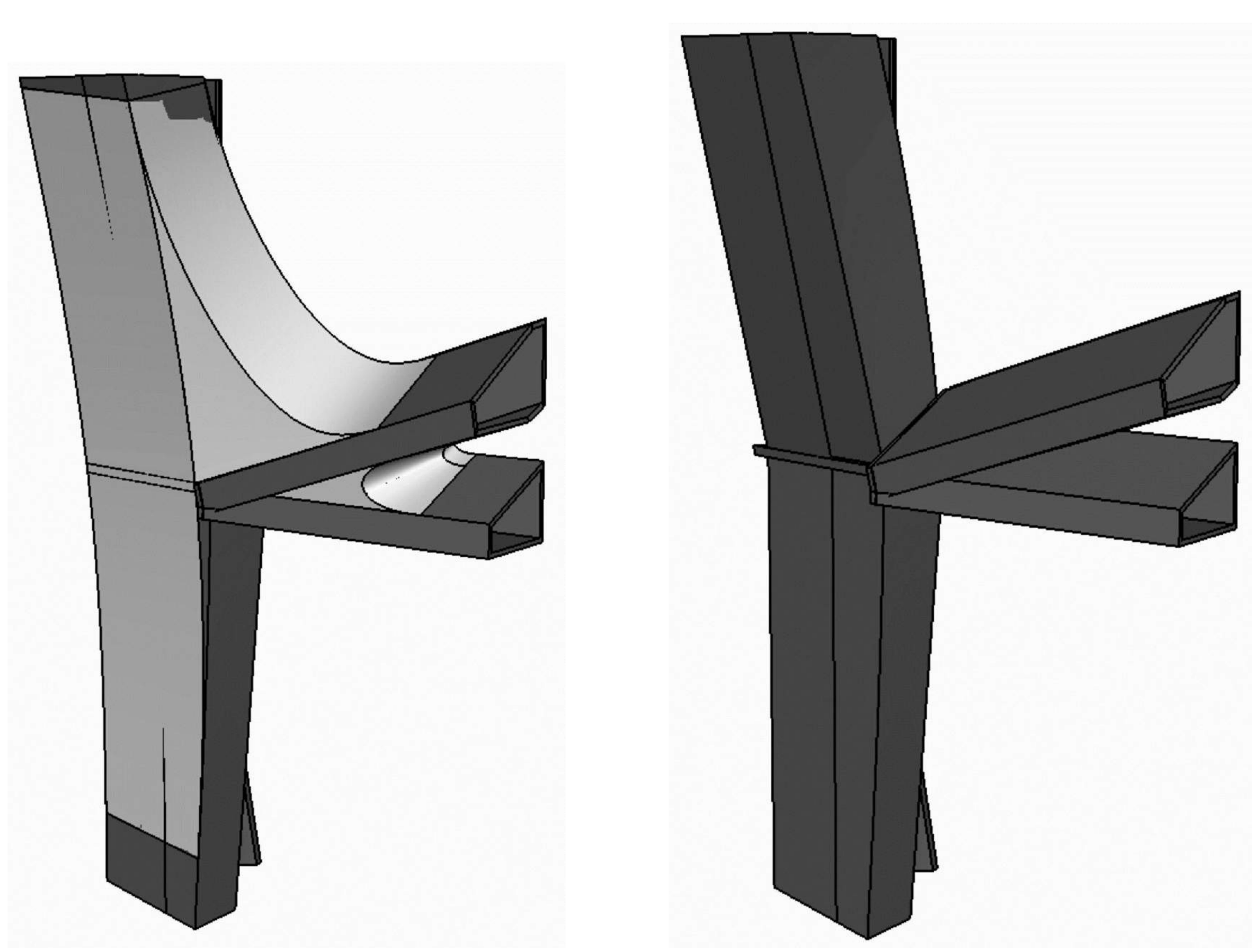
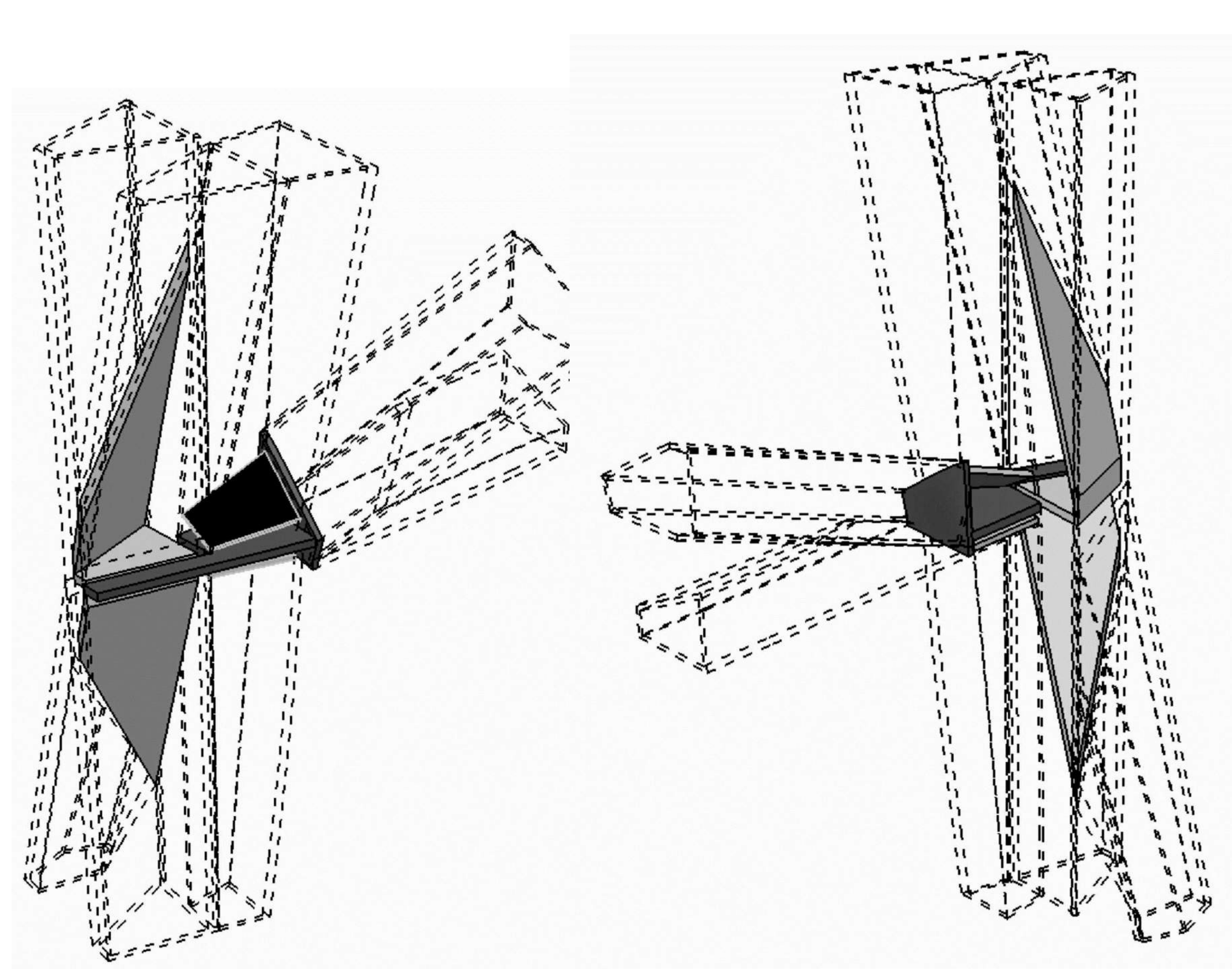


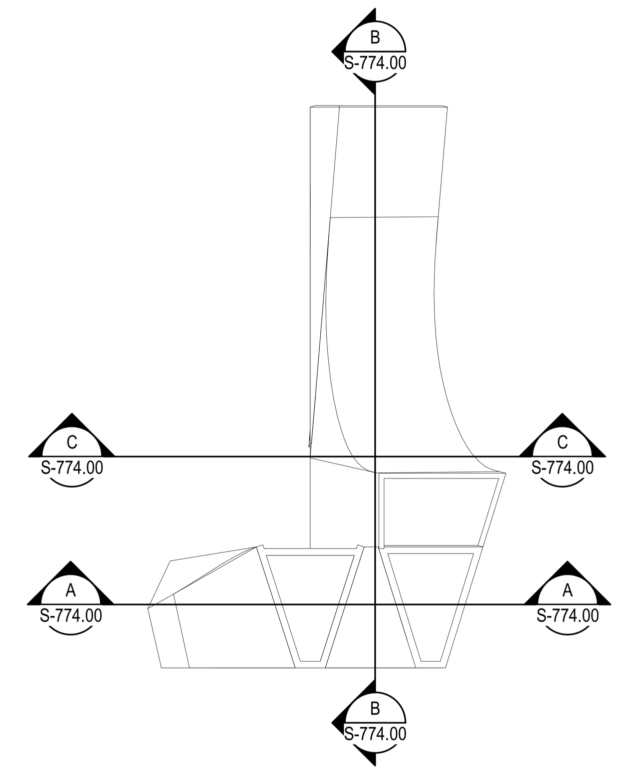
1 EAST WALL - NODE PERSPECTIVE
1" = 300'-0"



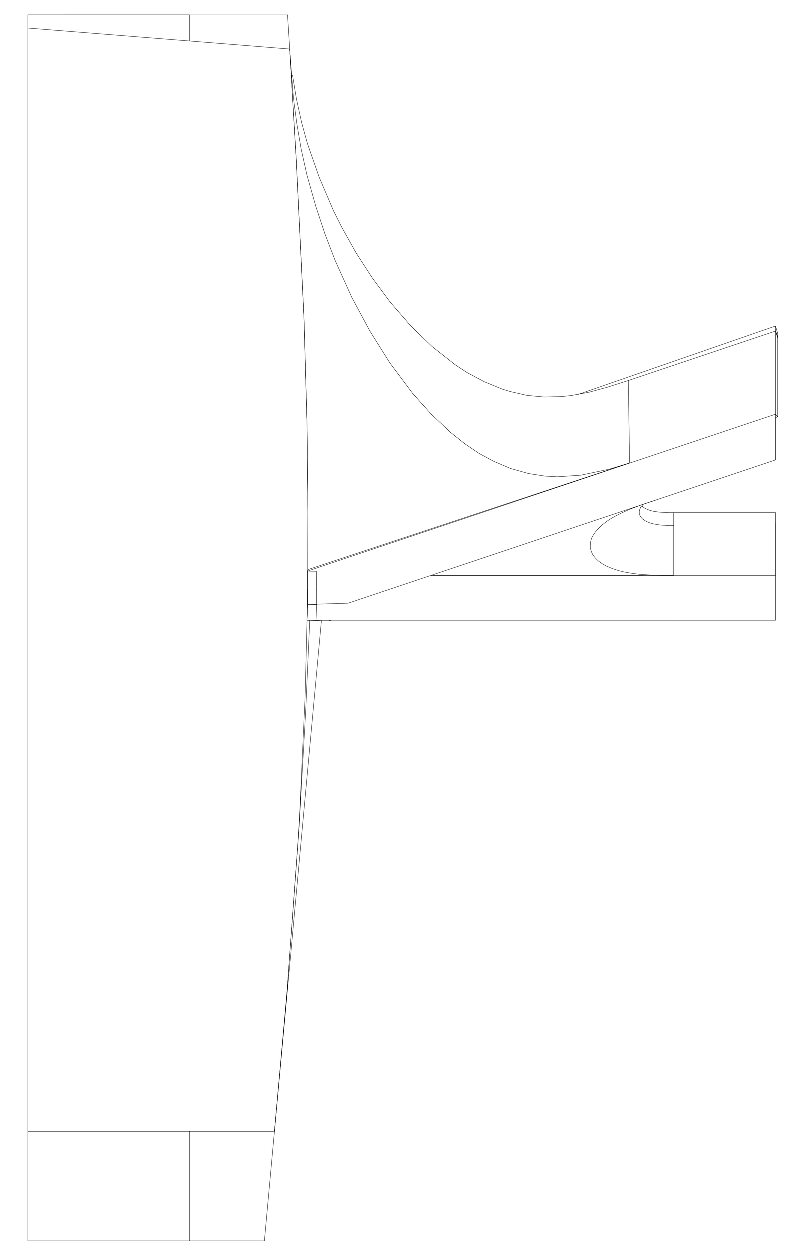
2 EAST WALL - NODE PERSPECTIVE
1" = 300'-0"



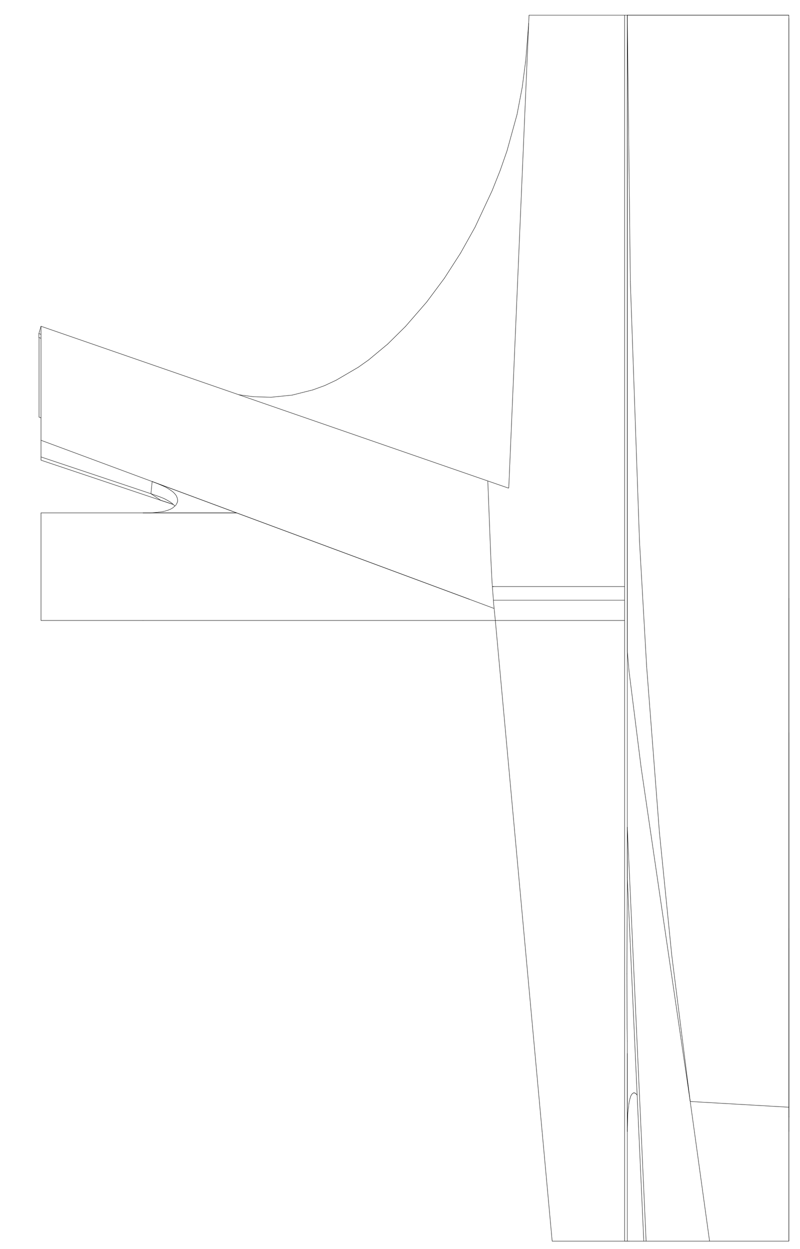
3 EAST WALL - NODE PERSPECTIVE/ PLATES
1" = 400'-0"



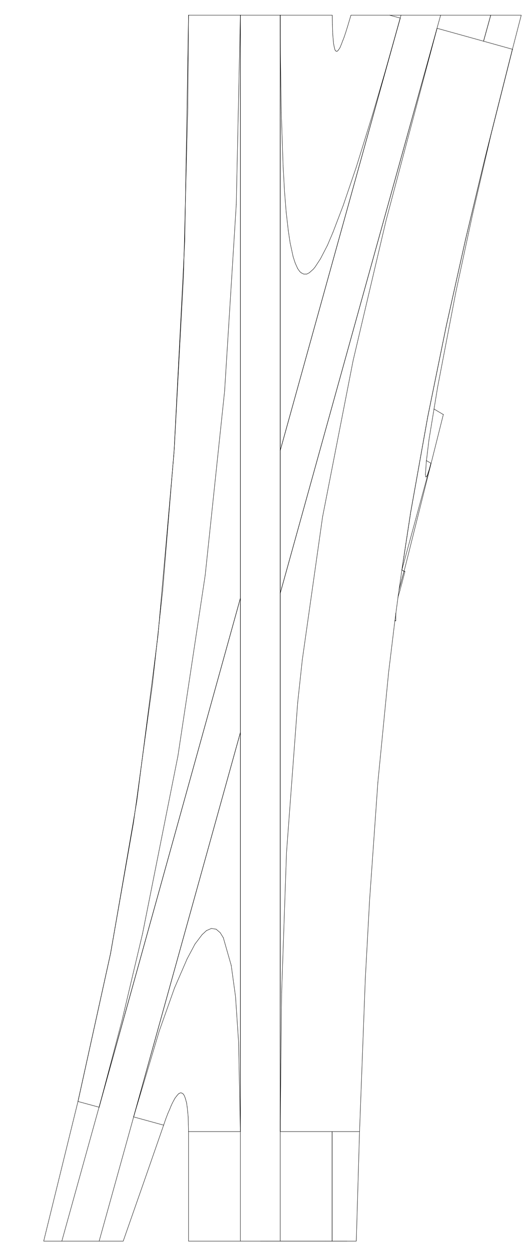
4 EAST WALL - NODE PLAN
3/8" = 1'-0"



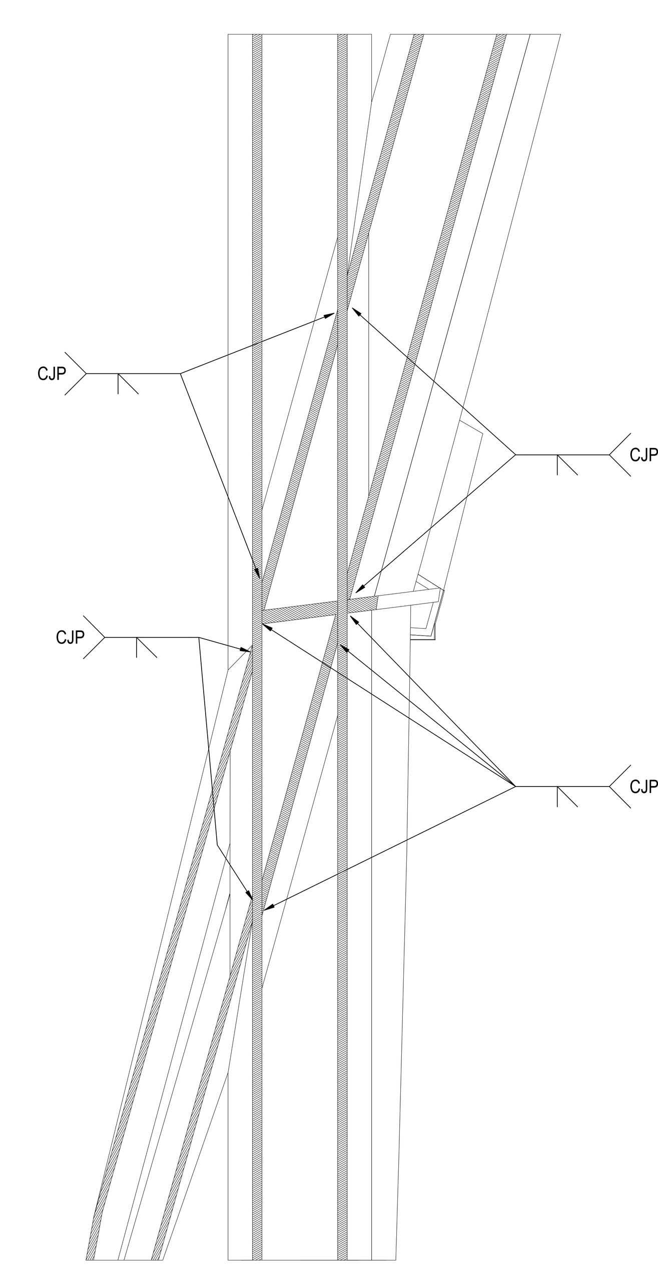
5 EAST WALL - EAST VIEW
1/2" = 1'-0"



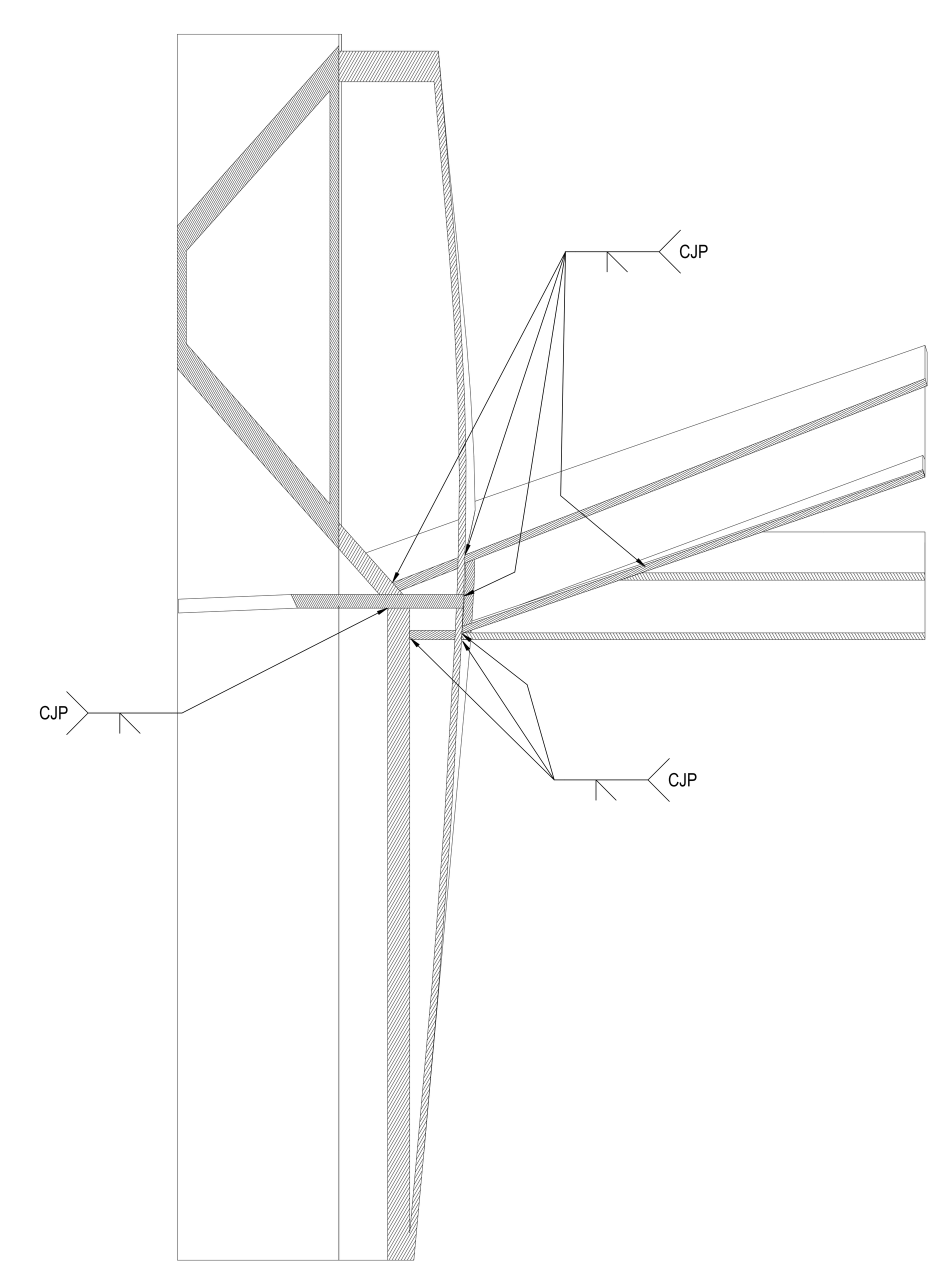
6 EAST WALL - WEST VIEW
1/2" = 1'-0"



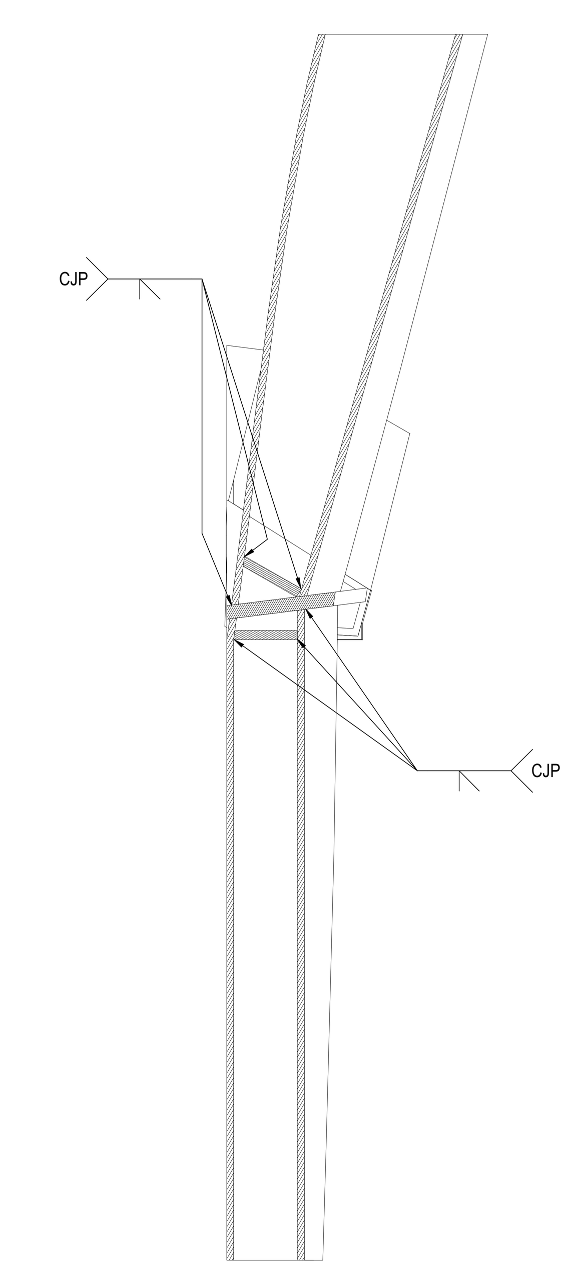
7 EAST WALL - SOUTH FACE
1/2" = 1'-0"



A SECTION AA
1/2" = 1'-0"



B SECTION BB
1/2" = 1'-0"



C SECTION CC
1/2" = 1'-0"

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THE GEOMETRY CREATED BY THE INTERSECTING ELEMENTS SHALL BE IN ACCORDANCE WITH THE 3D MODEL. THE LEVEL OF QUALITY IS TO BE SIMILAR TO THE COMISSIONED MOCK-UP FOR THE TYPICAL NODE. THE GENERAL CONCEPT IS THAT EDGES FLOW SMOOTHLY AND CONTINUOUSLY BETWEEN THE EDGE OF THE ELEMENT TO THE CORRESPONDING EDGE OF THE ADJASCENT ELEMENT AND THE INTERLYING SURFACES BETWEEN THESE EDGES ARE BLENDED AND CONTOURED TO DEFINE A SMOOTH, UNINTERRUPTED TRANSITION.

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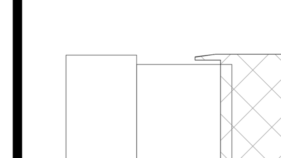

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PROJECT NUMBER
N11318.00

TITLE

DETAILS, DEPLOYED SHED EAST PORTAL - NODES

DRAWING NO.
S-774.00

B-SCAN NO.

S-774.00

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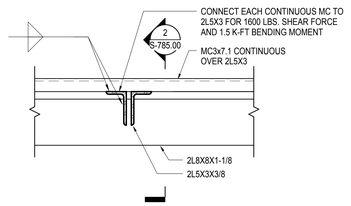
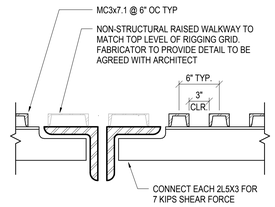


1 SECTION AT RIGGING GRID SUPPORTS
1 1/2" = 1'-0"



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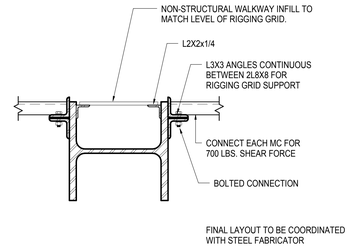
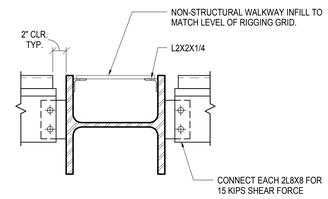
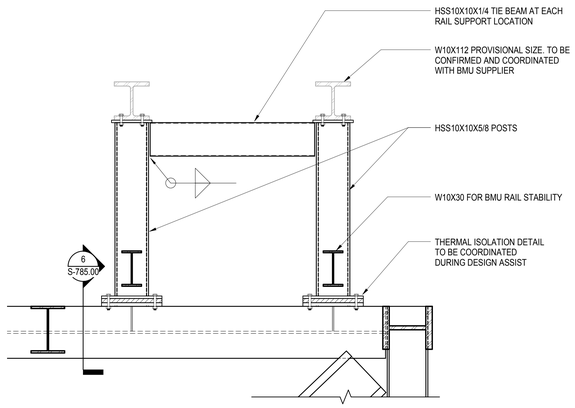


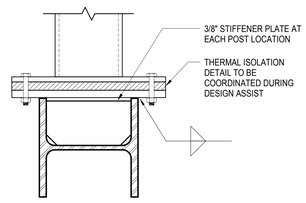
3 SECTION AT RIGGING GRID AND TRUSS
1 1/2" = 1'-0"



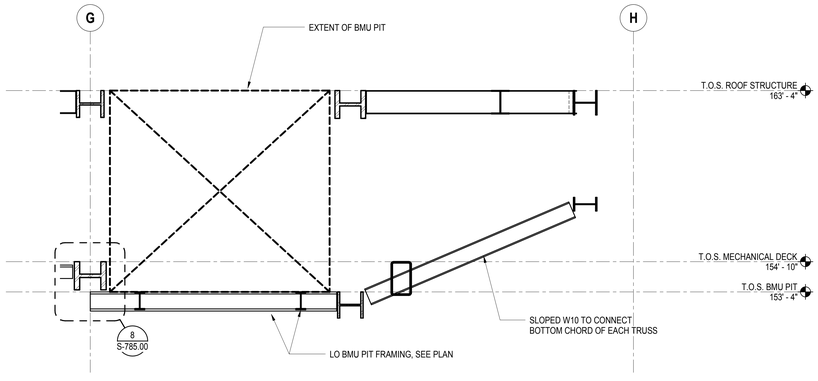
4 SECTION AT MECHANCIAL DECK FRAMING AND TRUSS
1 1/2" = 1'-0"



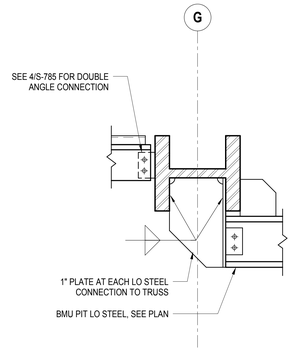
5 ROOF TRACK x TRUSS CONNECTION
3/4" = 1'-0"



6 BMU POST THERMAL ISOLATION DETAIL
1 1/2" = 1'-0"



7 SECTION AT BMU PIT
3/8" = 1'-0"



8 LO BMU FRAMING CONNECTION TO TRUSS
1" = 1'-0"

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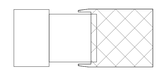

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B-SCAN NO.
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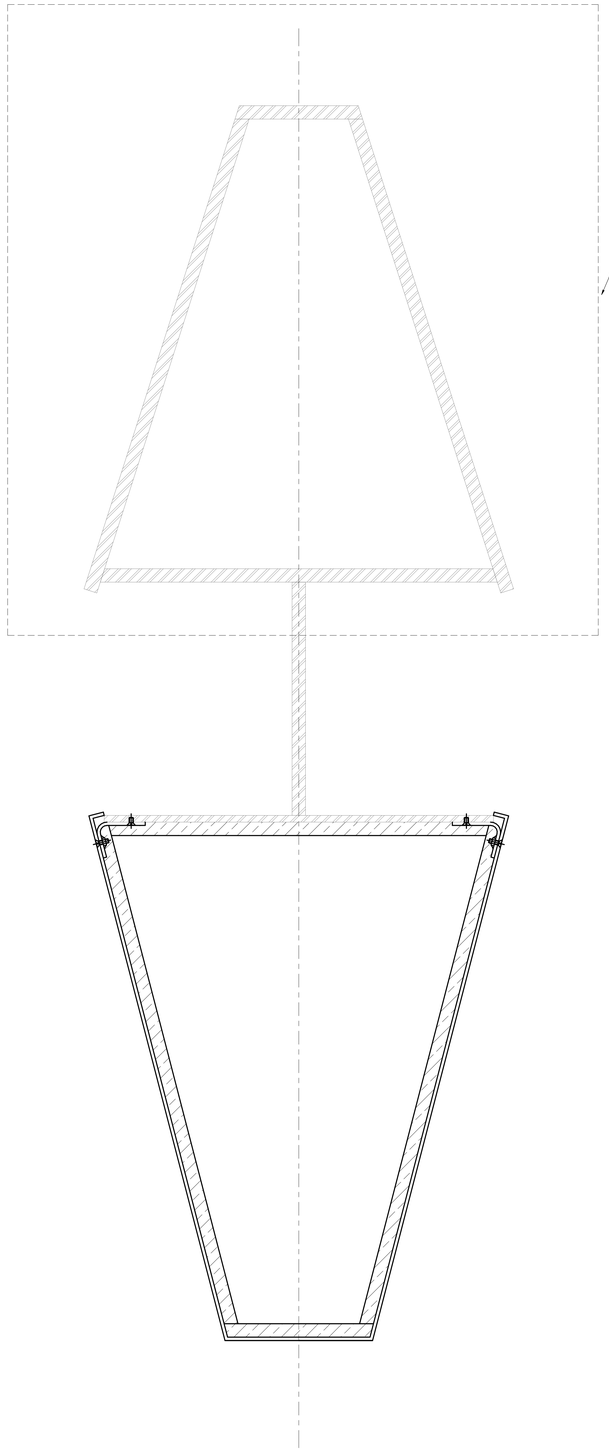
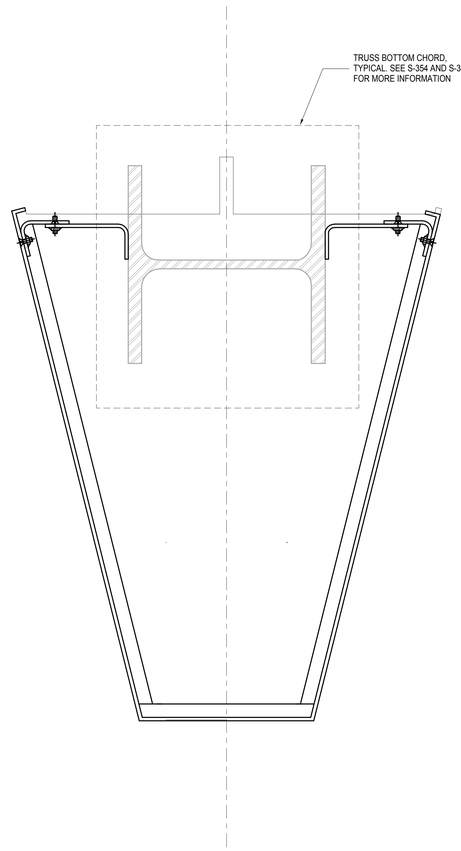


- REFER TO 3-D MODEL FOR LAYOUT AND SIZE OF DUCT.
- REFER TO ARCHITECTURAL DRAWING FOR FASTENER CONCEPT AND INSULATION.
- EXPOSED PLATEWORK TO BE, PER THE COMMISSIONED MOCK-UP, OF SIMILAR FINISH AND TEXTURE AS THE PRIMARY STEELWORK.
- PLATE CONFIGURATION, INCLUDING THICKNESS, INTERNAL STIFFENERS AND DIAPHRAGMS, TO BE PROPOSED BY THE FABRICATOR AND SUBJECT TO AGREEMENT WITH THE ARCHITECT AND SER TO PROVIDE AN ENCLOSURE WHICH SATISFIES THE MECHANICAL, AESTHETIC AND STRUCTURAL REQUIREMENTS.
- EXTERIOR PLATES MUST BE SMOOTH AND CONTINUOUS WITH SHARP, CRISP EDGES AND NO VISIBLE SIGNS OF DISTORTION. EXPOSED WELDS ARE TO BE GROUND FLUSH.
- THE MECHANICAL DUCTWORK CARRIES ITS OWN SELF-WEIGHT AND IS NOT A PRIMARY LOAD-BEARING ELEMENT.
- THE MECHANICAL DUCTWORK WILL HAVE THE SAME COATING APPLIED AS THE PRIMARY STRUCTURE.
- THE DUCTWORK SHOULD BE DESIGNED TO BE DEMOUNTABLE IN SECTIONS (SIZE TO BE AGREED WITH THE ARCHITECT) WITHOUT IMPACTING THE PRIMARY STRUCTURE, DOORS OR SHADES.
- ANY JOINTING MUST BE AGREED WITH THE ARCHITECT IN TERMS OF SIZE, LAYOUT, DETAIL, SPACING AND CONSISTENCY.

1 **TYPICAL SECTION AT N/S WALL MEP**
3" = 1'-0"



2 **TYPICAL SECTION AT N/S TRUSS**
3" = 1'-0"

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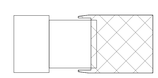
KEY PLAN



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44	33	DOB AMENDMENT 5	04.08.2016
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1		ADVANCED PROCUREMENT BID SET	06.16.2014

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PROJECT NUMBER
N11318.00

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DETAILS, DEPLOYED SHED MECHANICAL DUCTWORK

DRAWING NO.
S-786.00

B-SCAN NO.
S-786.00

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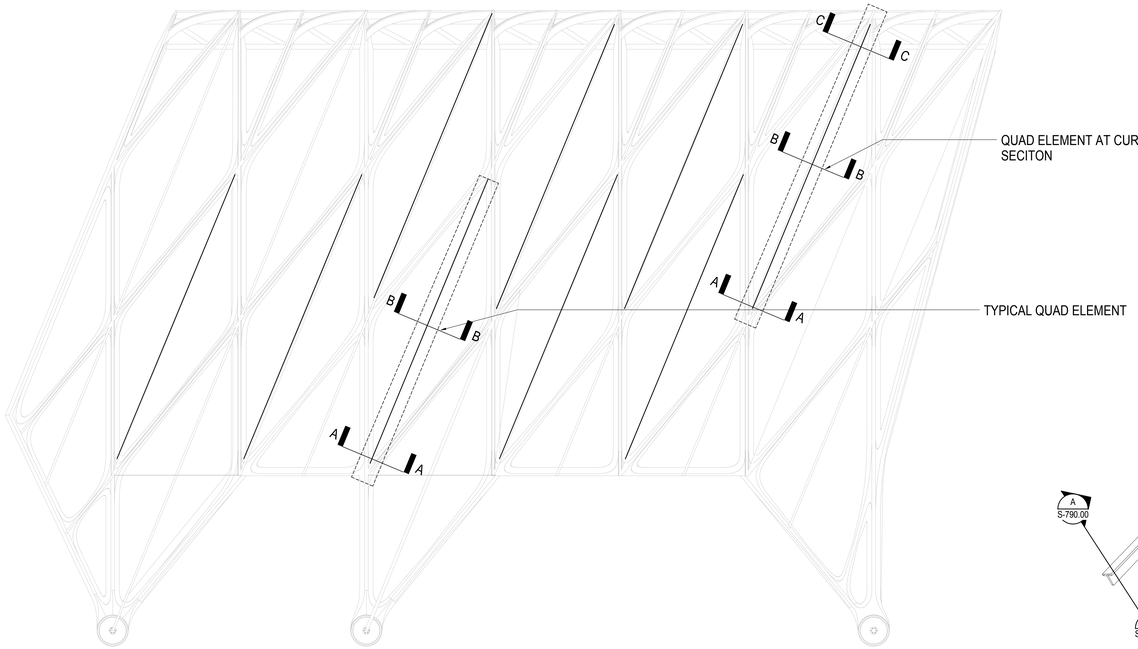
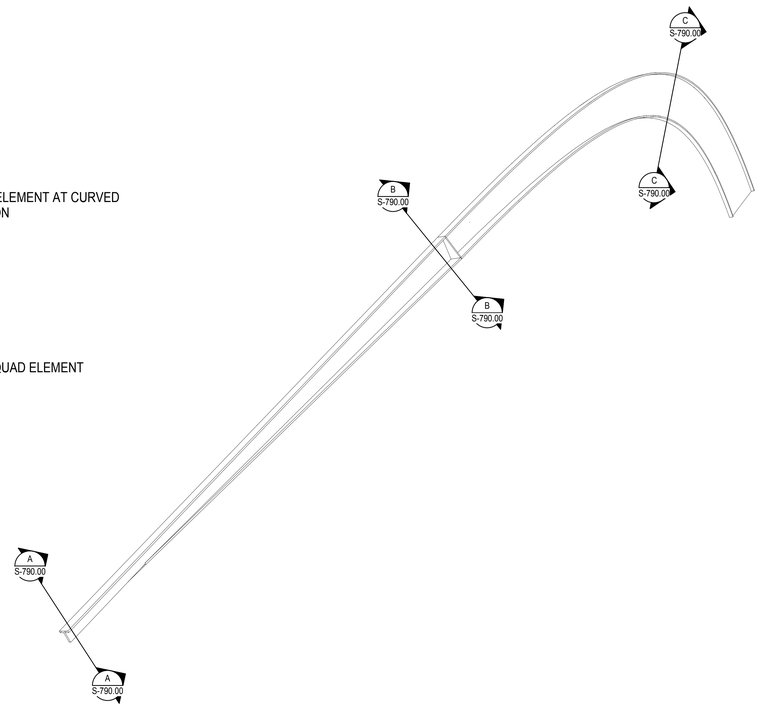
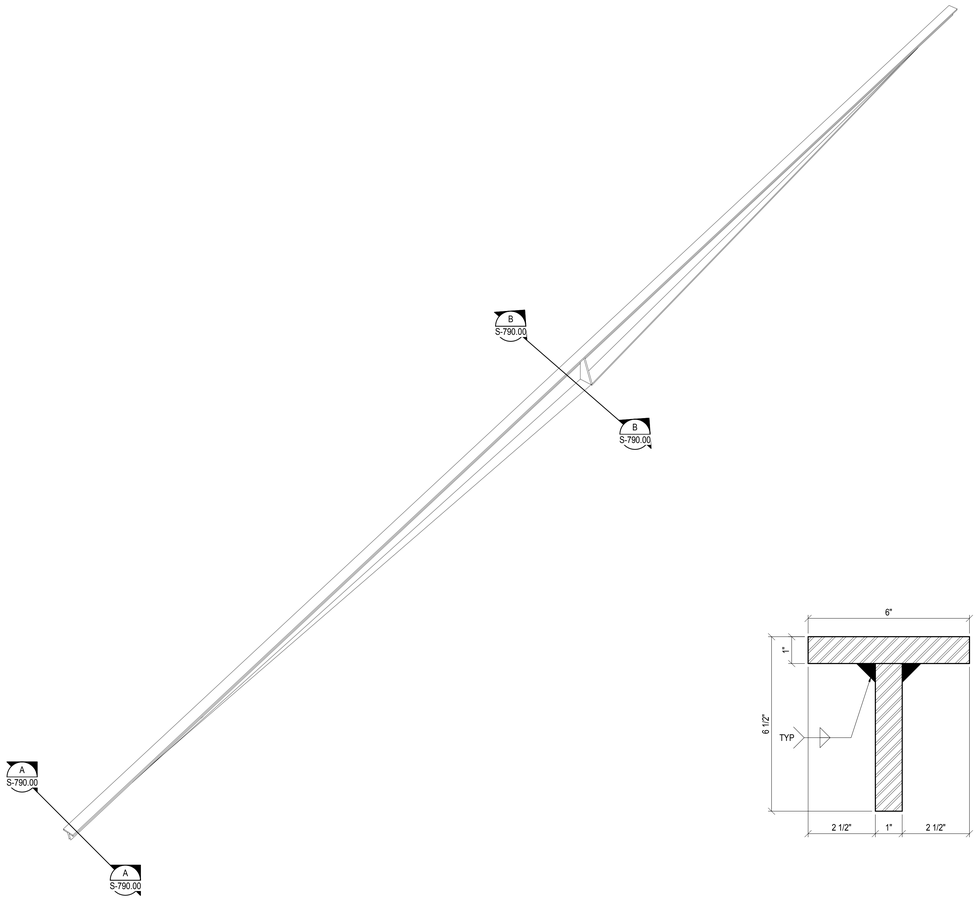


1 SOUTH ELEVATION
3/32" = 1'-0"

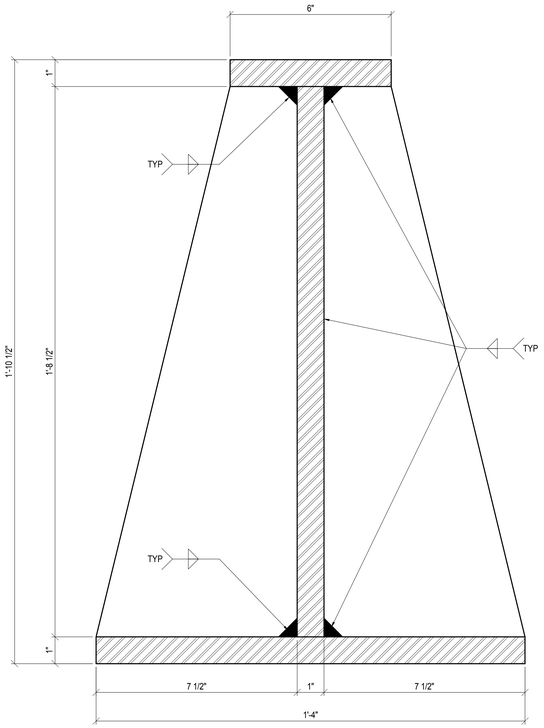


3 TYPICAL CURVED QUAD ELEMENT-AXONOMETRIC
1/2" = 1'-0"

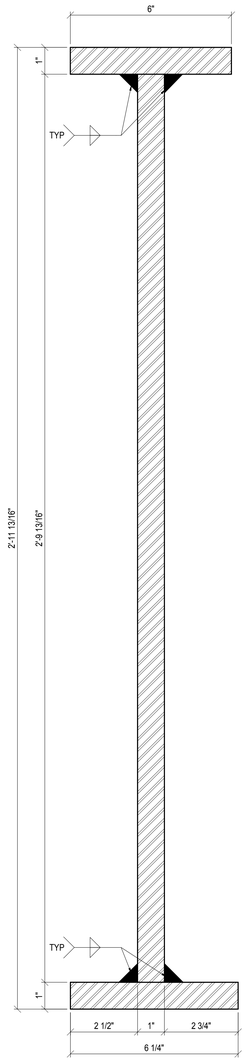


2 TYPICAL QUAD ELEMENT-AXONOMETRIC
1/2" = 1'-0"

A SECTION A-A
6" = 1'-0"



B SECTION B-B
6" = 1'-0"



C SECTION C-C
6" = 1'-0"

Damian Titus
BuildingNYC
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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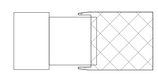

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PROJECT NUMBER
N11318.00

TITLE
DEPLOYED SHED NORTH/SOUTH WALL - QUAD MEMBERS

DRAWING NO.
S-790.00

B-SCAN NO.
S-790.00

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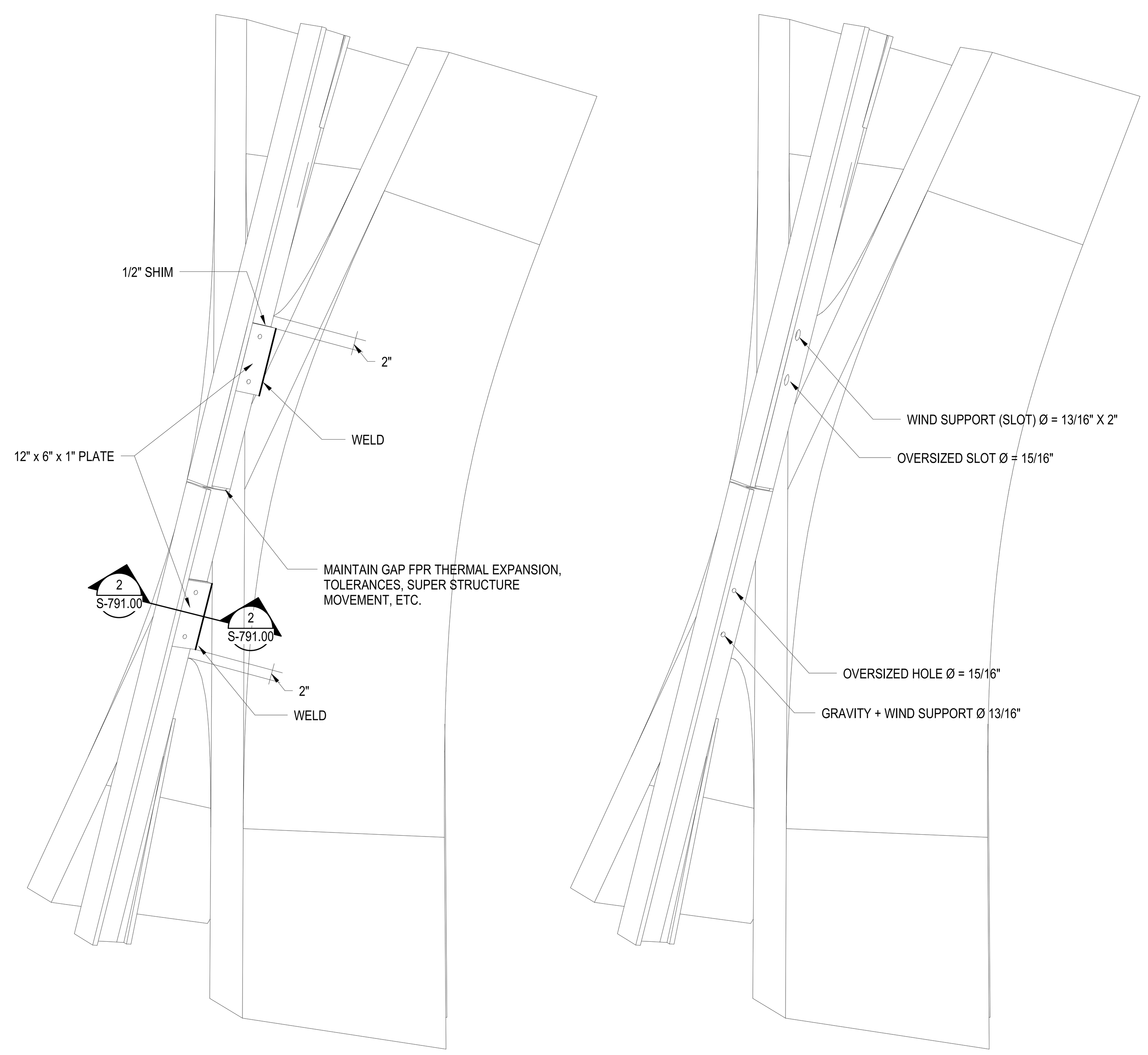
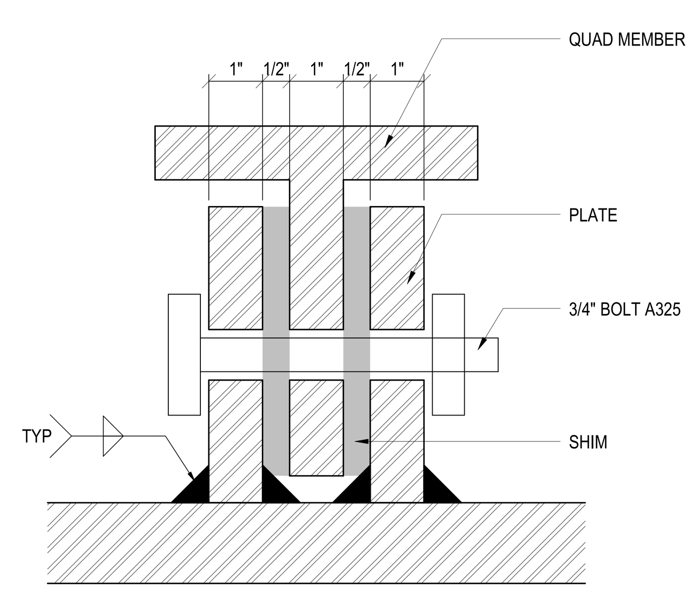
THE GEOMETRY CREATED BY THE INTERSECTING ELEMENTS SHALL BE IN ACCORDANCE WITH THE 3D MODEL. THE LEVEL OF QUALITY IS TO BE SIMILAR TO THE COMISSIONED MOCK-UP FOR THE TYPICAL NODE. THE GENERAL CONCEPT IS THAT EDGES FLOW SMOOTHLY AND CONTINUOUSLY BETWEEN THE EDGE OF THE ELEMENT TO THE CORRESPONDING EDGE OF THE ADJASCENT ELEMENT AND THE INTERLYING SURFACES BETWEEN THESE EDGES ARE BLENDED AND CONTOURED TO DEFINE A SMOOTH, UNINTERRUPTED TRANSITION.



1 TYPICAL QUAD ELEMENTCONNECTION -AXONOMETRIC
1" = 1'-0"



2 TYPICAL QUAD ELEMENTCONNECTION - SECTION
6" = 1'-0"

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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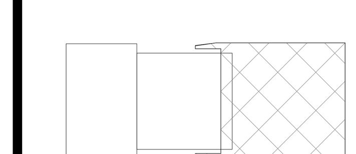

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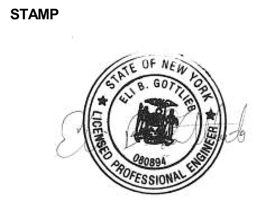

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PROJECT NUMBER
N11318.00

TITLE
DEPLOYED SHED NORTH/SOUTH WALL - QUAD CONNECTIONS

DRAWING NO.
S-791.00

B-SCAN NO.
S-791.00

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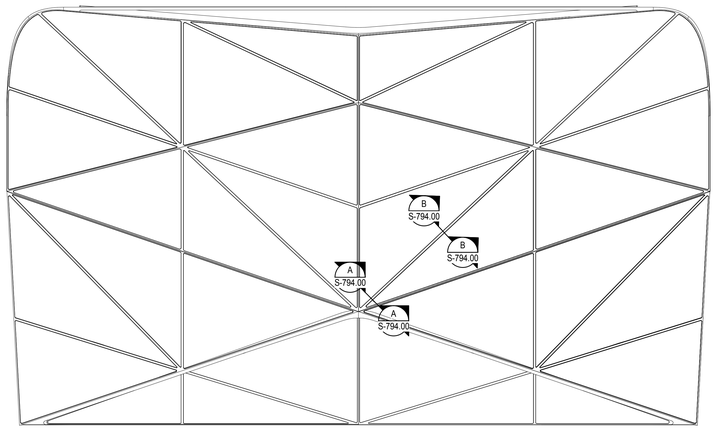
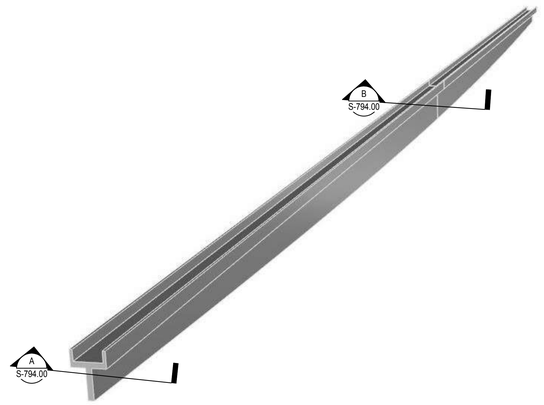
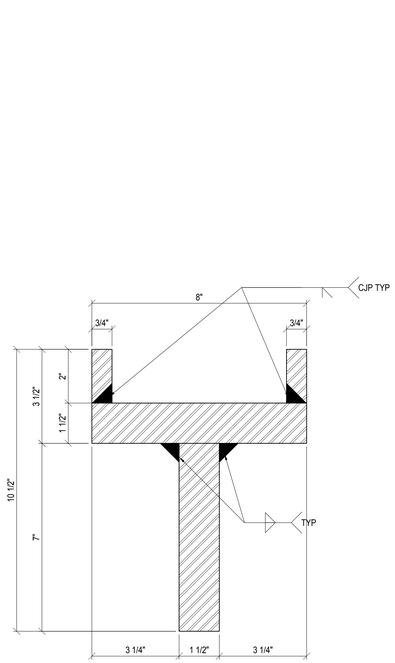


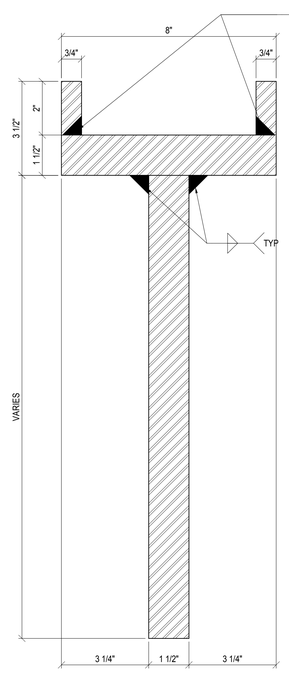
1 QUADS_E WALL
3/32" = 1'-0"



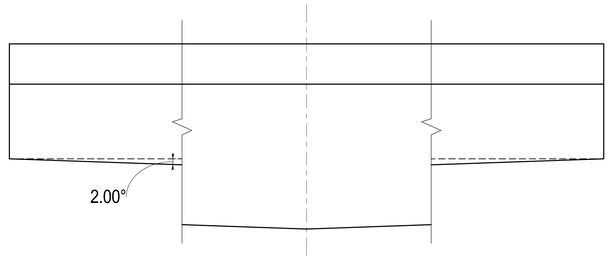
2 TYPICAL QUAD ELEMENT - AXONOMETRIC
3" = 1'-0"



A SECTION AA - MEMBER ENDS
6" = 1'-0"



B SECTION BB - MID SPAN
6" = 1'-0"



3 VIEW A - TYPICAL WEB TAPER ANGLE
3" = 1'-0"

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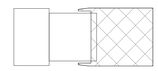

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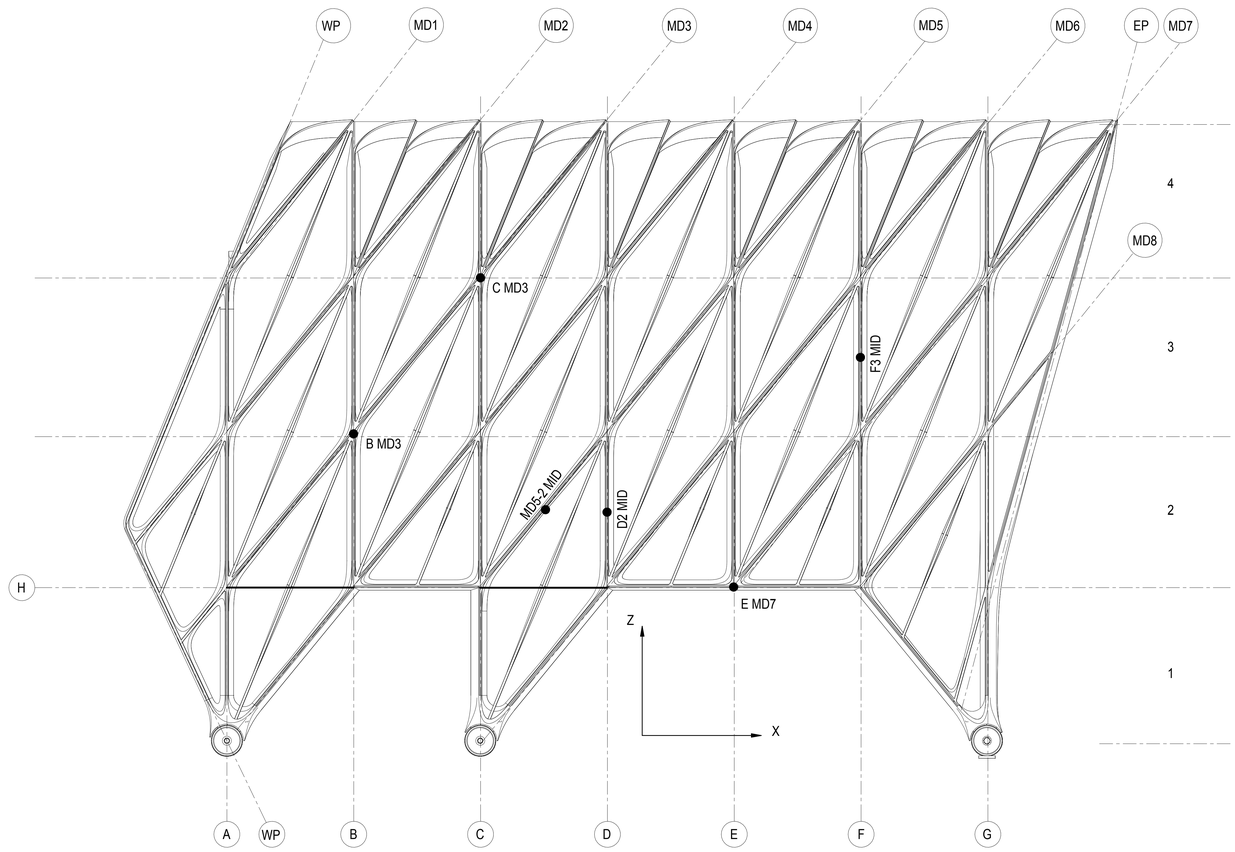

1 SOUTH ELEVATION
3/32" = 1'-0"

JOINT	X	Y	Z
	in	in	in
G EP S	-1.7	0.3	-0.1
A MD1 S	-0.8	-1.2	0.0
A MD2 S	-0.8	-1.2	0.0
A MD3 S	-0.6	-0.6	0.0
B MD2 S	0.0	-0.9	-0.7
B MD3 S	0.2	-1.4	-0.7
B MD4 S	-0.5	-1.1	-0.7
C MD3 S	-0.5	-1.6	-0.1
C MD4 S	-1.2	-2.0	-0.1
C MD5 S	-0.5	-1.1	0.0
D MD4 S	0.0	-1.2	-1.0
D MD5 S	0.6	-1.9	-1.0
D MD6 S	-0.5	-1.7	-1.0
E MD5 S	0.5	-1.4	-1.1
E MD6 S	-0.3	-1.9	-1.1
E MD7 S	-0.5	-1.7	-1.1
F MD6 S	0.0	-0.7	-1.3
F MD7 S	-0.1	-1.3	-1.3
F MD8 S	-0.5	-1.0	-1.3
G MD7 S	-1.3	-1.0	-0.2
G MD8 S	-1.9	-0.2	-0.1
A1 MID S	-0.9	-0.3	0.0
A2 MID S	-0.6	-1.0	0.0
A3 MID S	-0.9	-1.3	0.0
B2 MID S	-0.1	-1.3	-0.7
B3 MID S	0.2	-1.3	-0.7
C1 MID S	-0.9	-0.5	0.0
C2 MID S	-0.9	-1.6	-0.1
C3 MID S	-1.0	-2.0	-0.1
D2 MID S	0.1	-1.9	-1.0
D3 MID S	0.3	-1.7	-1.0
E2 MID S	-0.5	-1.9	-1.1
E3 MID S	0.1	-1.8	-1.1
EP MD 8 S	-1.9	0.1	-0.1
F2 MID S	-0.2	-1.2	-1.3
F3 MID S	-0.1	-1.1	-1.3
G2 MID S	-2.0	0.1	-0.1
G3 MID S	-1.7	-0.7	-0.1
WP MD2 S	-1.1	-1.0	0.1
WP MD3 S	-0.9	-0.4	0.2
EP1 MID S	-0.8	0.1	-0.4
F-G1 EP S	0.2	-0.1	-0.7
WP3 MID S	-1.2	-1.5	0.1
F-G1 MID S	-0.4	-0.4	-1.2
MD2-2 MID S	-1.0	-1.2	0.1
MD2-3 MID S	-0.4	-1.2	-0.4
MD3-2 MID S	-0.1	-1.1	-0.4
MD3-3 MID S	-0.2	-1.8	-0.4
MD4-1 MID S	-0.8	-0.5	-0.5
MD4-2 MID S	-0.8	-1.6	-0.5
MD4-3 MID S	-0.6	-1.8	-0.6
MD5-2 MID S	0.0	-1.7	-0.5
MD5-3 MID S	0.5	-1.9	-1.1
MD6-1 MID S	-1.0	-0.9	-0.6
MD6-2 MID S	-0.3	-2.0	-1.1
MD6-3 MID S	-0.1	-1.5	-1.2
MD7-2 MID S	-0.2	-1.5	-1.2
MD7-3 MID S	-0.8	-1.2	-0.6
MD8-2 MID S	-1.1	-0.6	-0.7
MD8-3 MID S	-1.9	0.0	-0.1

JOINT	X	Y	Z
	in	in	in
WP TOP S	0.0	0.3	-1.4
B TOP S	0.0	0.3	-1.4
C TOP S	0.1	0.3	-1.4
D TOP S	0.0	0.3	-1.9
E TOP S	0.0	0.3	-2.1
F TOP S	0.0	0.4	-1.9
G TOP S	0.0	0.5	-1.4
EP TOP S	0.1	0.3	-1.2
MD1 TOP S	0.0	0.3	-1.5
MD2 TOP S	0.1	0.3	-1.4
MD3 TOP S	0.0	0.3	-1.8
MD4 TOP S	0.0	0.3	-2.1
MD5 TOP S	0.0	0.4	-1.9
MD6 TOP S	0.0	0.4	-1.6
MD7 TOP S	0.0	0.2	-1.4
A MD4 - BOGIE 1 S	-1.4	0.0	0.0
C MD6 - BOGIE 2 S	-1.8	0.0	0.0
G FG1 - BOGIE 3 S	1.0	0.0	0.0

2 SOUTH WALL DEFLECTIONS
1/4" = 1'-0"

DEFLECTIONS ARE PROVIDED BASED ON ASSUMED PERMANENT LOADS. NORTH AND SOUTH WALLS SIMILAR. PERMANENT DEFLECTIONS ARE PROVIDED TO ASSIST CONTRACTOR IN DETERMINING REQUIRED PRECAMBERS CONSISTENT WITH PROPOSED ERECTION STRATEGY IN ORDER TO ACHIEVE THE FINAL GEOMETRY PER THE ISSUED 3D MODEL AND IN ACCORDANCE WITH THE ALLOWABLE TOLERANCES DESCRIBED IN S-005 THROUGH S-010.

NOTE:
DEFLECTIONS ARE UPDATED BASED ON THE ADDITION OF HORIZONTAL CABLES AT 30'. NO OTHER VE ITEM HAS BEEN INCLUDED.

Damian Titus
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APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 03/01/2016
NYC Development Hub

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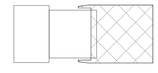
KEY PLAN



ISSUE		PRINTING	DATE
44	33	DOB AMENDMENT 5	04.08.2016
21		CONSTRUCTION SET	10.09.2015
10	4	100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014
1		ADVANCED PROCUREMENT BID SET	06.16.2014

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PROJECT NUMBER
N11318.00

TITLE
DEPLOYED SHED -DEAD LOAD DEFLECTIONS I

DRAWING NO.
S-798.00

B-SCAN NO.
S-798.00

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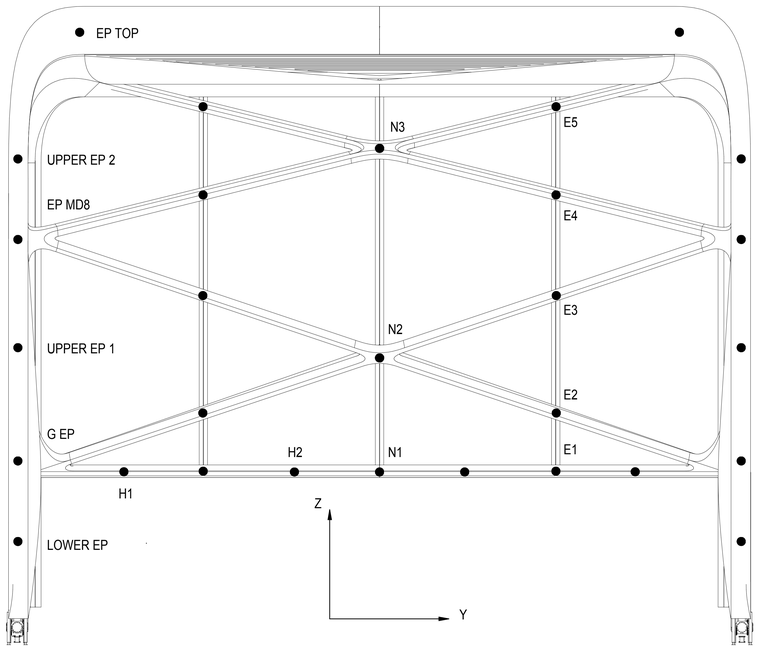
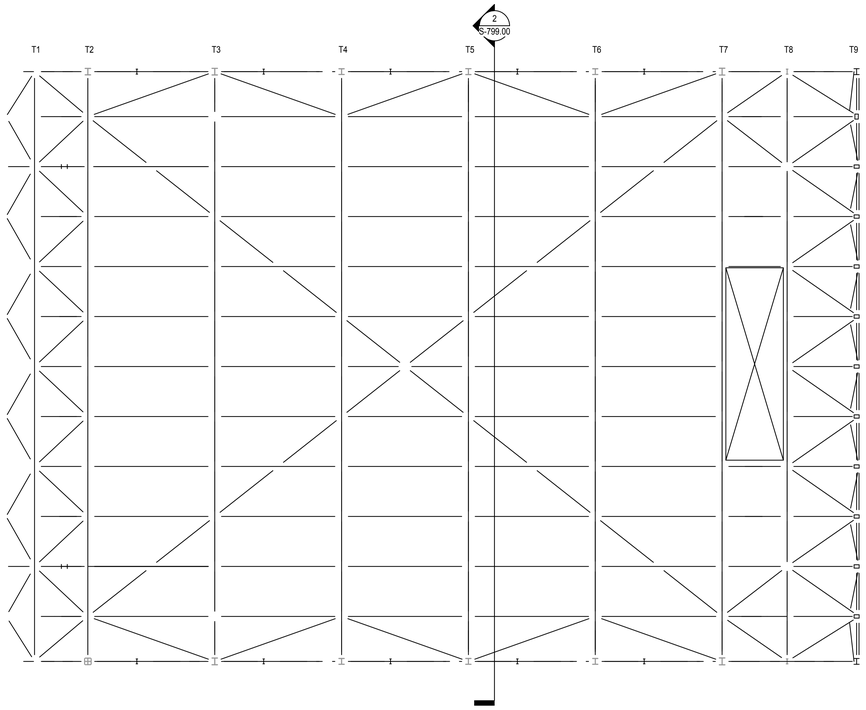
ES0002130535 Scan Code

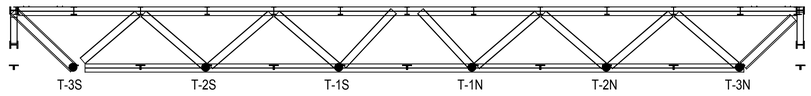
GEOMETRY, DIMENSIONS AND SURFACE CONTOURING, BLENDING AND INTERSECTION OF SECTIONS ILLUSTRATED IN THE STRUCTURAL DRAWINGS ARE PROVIDED FOR REFERENCE AND GENERATION OF STRUCTURAL ARRANGEMENT AND DETAILS ONLY. THE 3D MODEL ISSUED BY THE ARCHITECT DEFINES THE EXTERIOR SURFACE AND SHALL BE ADHERED TO FOR THE FINAL GEOMETRY. FOR DETAILS OF SECONDARY STEEL, INCLUDING STRUCTURAL CLADDING REFER TO ARCHITECTURE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY ANY DISCREPANCIES OR AMBIGUITIES FOR DISCUSSION, RESOLUTION AND DIRECTION FROM THE ARCHITECT AND SER.



1 EAST ELEVATION
3/32" = 1'-0"



3 FRAMING PLAN, DEPLOYED SHED - ROOF
3/32" = 1'-0"



2 TRUSS 05
1/8" = 1'-0"

JOINT	X	Y	Z
	in	in	in
E1 N	-1.5	0.2	-2.7
E1 S	-1.4	0.3	-2.7
E2 N	-1.7	0.2	-0.3
E2 S	-1.9	0.3	-0.2
E3 N	-1.9	0.4	-0.3
E3 S	-2.0	0.1	-0.2
E4 N	-1.6	0.2	-0.9
E4 S	-1.7	0.3	-0.9
E5 N	-0.4	0.7	-1.8
E5 S	-0.5	-0.2	-1.8
EP MD 8 N	-1.8	0.4	-0.1
EP MD 8 S	-1.9	0.1	-0.1
EP TOP N	0.1	0.2	-1.1
EP TOP S	0.1	0.3	-1.2
G EP N	-1.6	0.2	-0.1
G EP S	-1.7	0.3	-0.1
H1 N	-1.6	0.2	-1.4
H1 S	-1.5	0.3	-1.4
H2 N	-1.4	0.2	-3.6
H2 S	-1.3	0.3	-3.6
LOWER EP N	-0.5	0.1	0.0
LOWER EP S	-0.6	0.2	-0.1
N1	-1.3	0.3	-3.8
N2	-1.8	0.2	0.1
N3	-1.2	0.2	-0.6
UPPER EP 1 N	-2.2	0.3	0.1
UPPER EP 1 S	-2.2	0.2	0.0
UPPER EP 2 N	-1.3	0.6	-0.2
UPPER EP 2 S	-1.4	-0.2	-0.2

4 EAST WALL DEFLECTIONS

DEFLECTIONS ARE PROVIDED BASED ON ASSUMED PERMANENT LOADS.
PERMANENT DEFLECTIONS ARE PROVIDED TO ASSIST CONTRACTOR IN DETERMINING REQUIRED PRECAMBERS CONSISTENT WITH PROPOSED ERECTION STRATEGY IN ORDER TO ACHIEVE THE FINAL GEOMETRY PER THE ISSUED 3D MODEL AND IN ACCORDANCE WITH THE ALLOWABLE TOLERANCES DESCRIBED IN S-005 THROUGH S-010.

JOINT	X	Y	Z
	in	in	in
T1-1N	0.4	0.1	-2.3
T1-1S	0.3	0.1	-2.3
T1-2N	0.2	0.2	-2.0
T1-2S	0.2	0.1	-2.1
T1-3N	0.2	0.3	-1.6
T1-3S	0.1	0.2	-1.6
T2-1N	0.1	0.3	-2.4
T2-1S	0.1	0.2	-2.5
T2-2N	0.0	0.3	-2.1
T2-2S	0.0	0.2	-2.2
T2-3N	0.0	0.3	-1.6
T2-3S	0.0	0.2	-1.7
T3-1N	0.1	0.3	-2.5
T3-1S	0.1	0.2	-2.6
T3-2N	0.0	0.3	-2.2
T3-2S	0.0	0.2	-2.2
T3-3N	0.0	0.3	-1.6
T3-3S	0.0	0.1	-1.7
T4-1N	0.0	0.3	-3.2
T4-1S	0.0	0.2	-3.3
T4-2N	0.0	0.4	-2.9
T4-2S	0.0	0.1	-2.9
T4-3N	0.0	0.4	-2.2
T4-3S	0.0	0.1	-2.2
T5-1N	0.0	0.3	-3.4
T5-1S	0.0	0.2	-3.4
T5-2N	0.0	0.4	-3.0
T5-2S	0.0	0.1	-3.1
T5-3N	0.0	0.4	-2.3
T5-3S	0.0	0.1	-2.4

JOINT	X	Y	Z
	in	in	in
T6-1N	0.0	0.3	-3.4
T6-1S	0.0	0.2	-3.4
T6-2N	0.0	0.3	-2.9
T6-2S	0.0	0.2	-3.0
T6-3N	0.1	0.4	-2.2
T6-3S	0.0	0.1	-2.3
T7-1N	-0.2	0.3	-3.3
T7-1S	-0.2	0.2	-3.4
T7-2N	-0.1	0.3	-2.8
T7-2S	-0.1	0.2	-2.8
T7-3N	0.1	0.4	-1.8
T7-3S	0.1	0.1	-1.9
T8-1N	0.8	0.3	-2.6
T8-1S	0.8	0.2	-2.7
T8-2N	0.3	0.4	-2.3
T8-2S	0.3	0.1	-2.4
T8-3N	0.2	0.4	-1.7
T8-3S	0.2	0.1	-1.8
T9-1N	0.8	0.3	-2.6
T9-1S	0.8	0.2	-2.6
T9-2N	0.3	0.3	-2.2
T9-2S	0.3	0.2	-2.2
T9-3N	0.1	0.4	-1.5
T9-3S	0.1	0.1	-1.6

5 TRUSS DEFLECTIONS

NOTE:
DEFLECTIONS ARE UPDATED BASED ON THE ADDITION OF HORIZONTAL CABLES AT 30'. NO OTHER VE ITEM HAS BEEN INCLUDED.

Damian Titus
Buildings
APPROVED
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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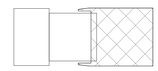
KEY PLAN



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10	4	100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014
1		ADVANCED PROCUREMENT BID SET	06.16.2014

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PROJECT NUMBER
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TITLE
DEPLOYED SHED -DEAD LOAD DEFLECTIONS II

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S-799.00

B-SCAN NO.
S-799.00

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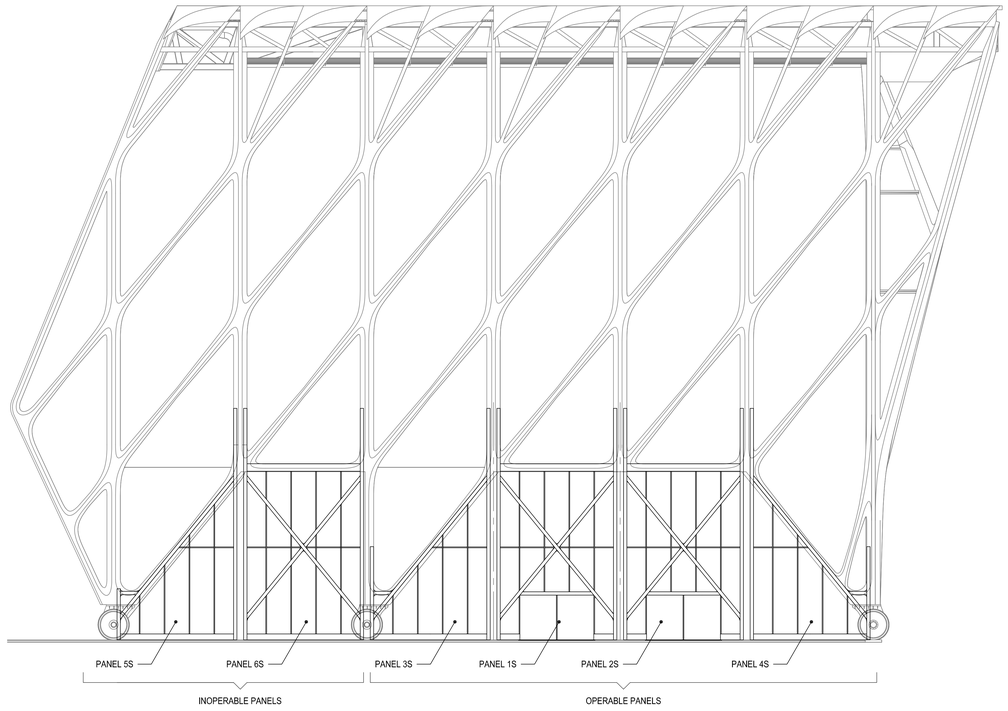
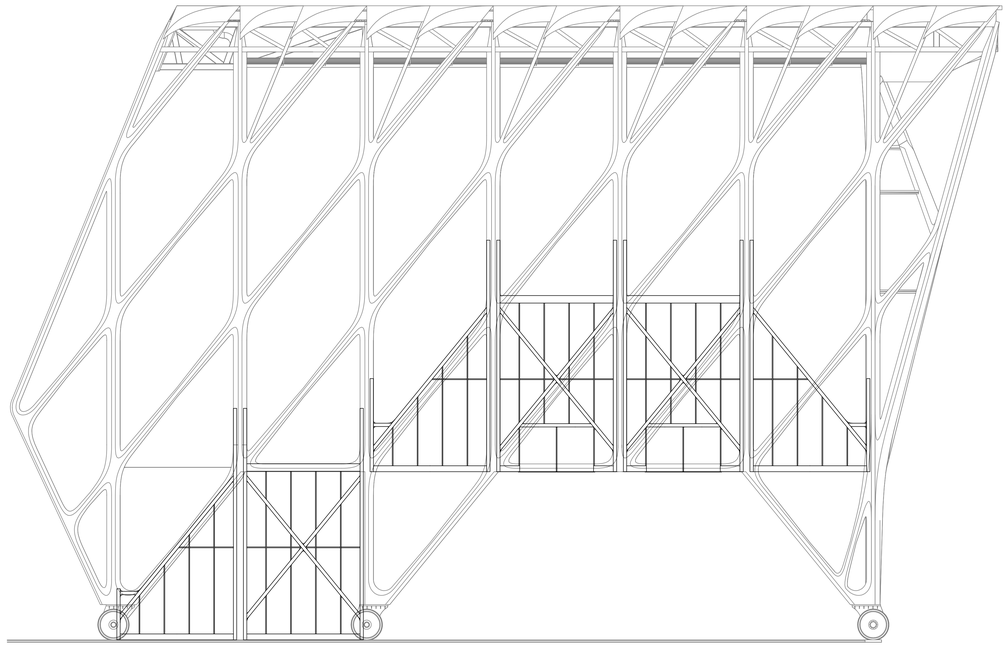
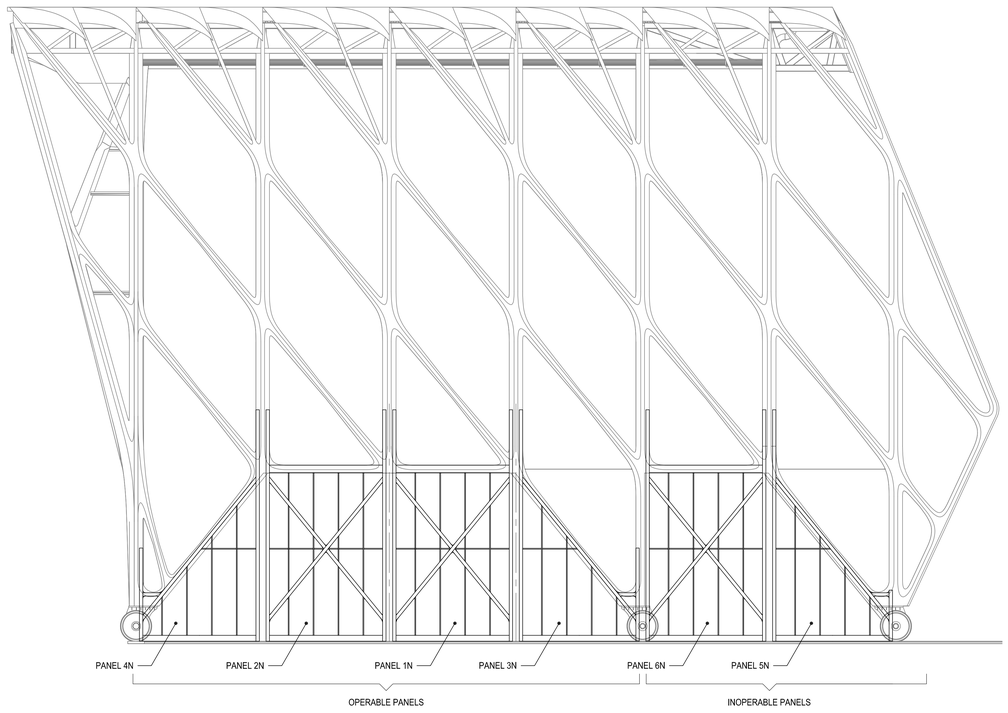


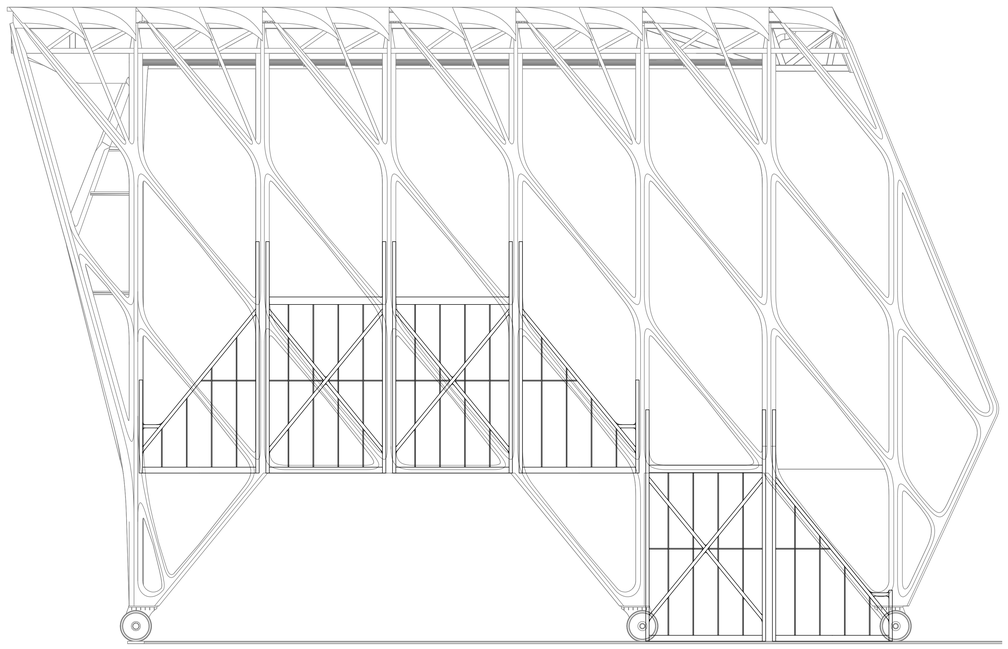
1 SOUTH ELEVATION - DOORS CLOSED
3/32" = 1'-0"



2 SOUTH ELEVATION - DOORS OPEN
3/32" = 1'-0"



3 NORTH ELEVATION - DOORS CLOSED
3/32" = 1'-0"



4 NORTH ELEVATION - DOORS OPEN
3/32" = 1'-0"

NOTE: ASSUME AESS TOLERANCES FOR OPERABLE DOOR PANEL ASSEMBLIES

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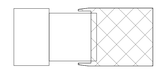
KEY PLAN



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44	33	DOB AMENDMENT 5	04.08.2016
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6		PRELIMINARY DOB SUBMISSION	12.10.2014
1		ADVANCED PROCUREMENT BID SET	06.16.2014

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PROJECT NUMBER
N11318.00

TITLE
DEPLOYED SHED NORTH & SOUTH DOORS - LAYOUT

DRAWING NO.
S-801.00

B-SCAN NO.
S-801.00

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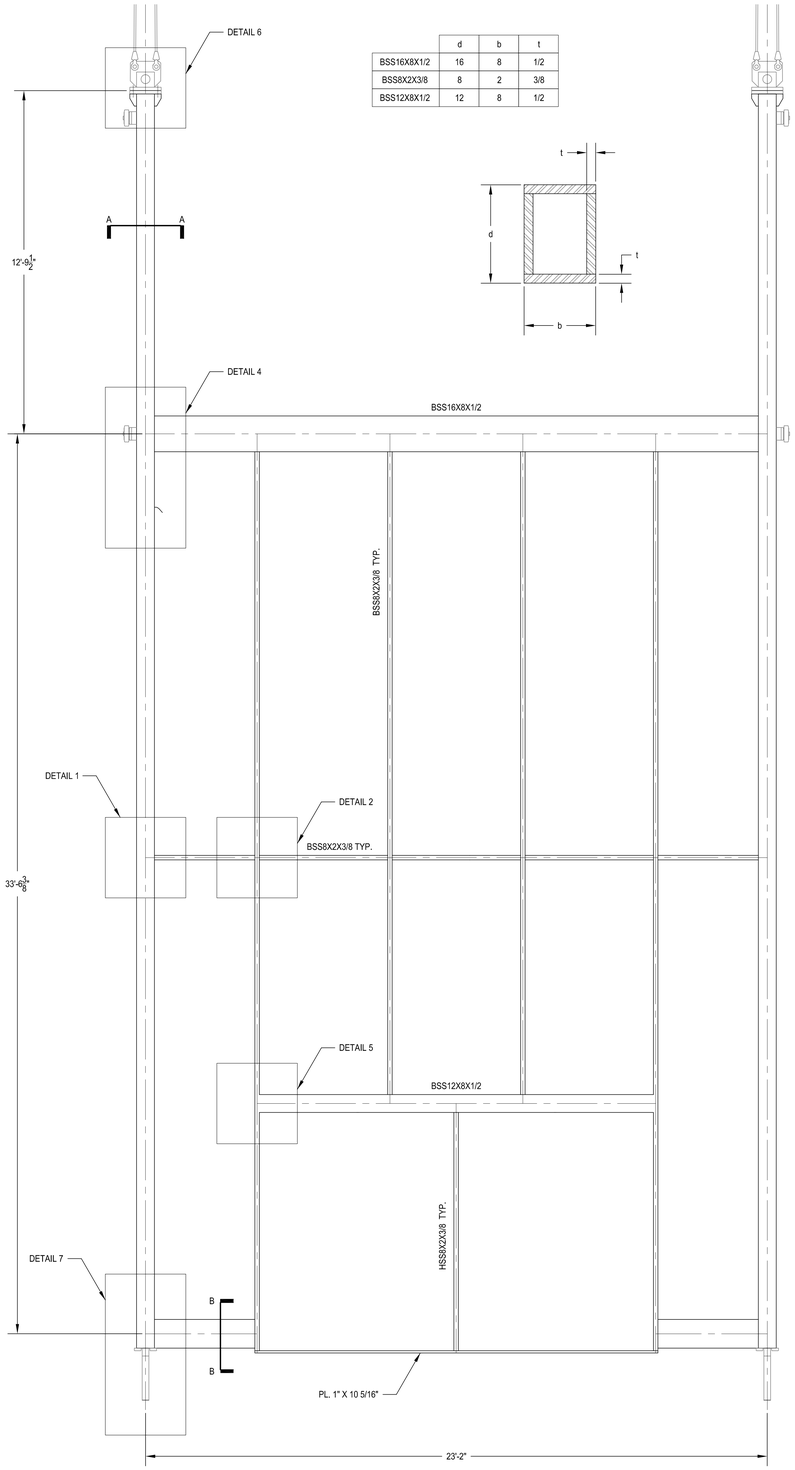

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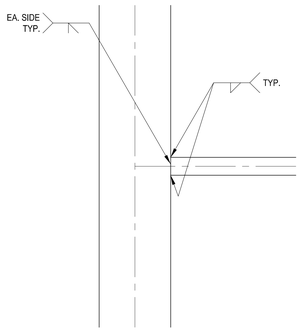
1 OPERABLE WALL PANEL 1S
1/2" = 1'-0"



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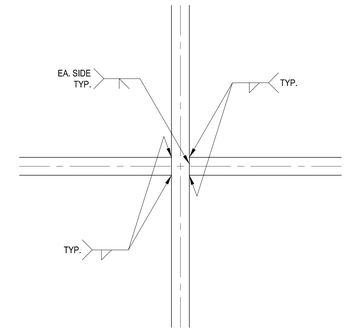

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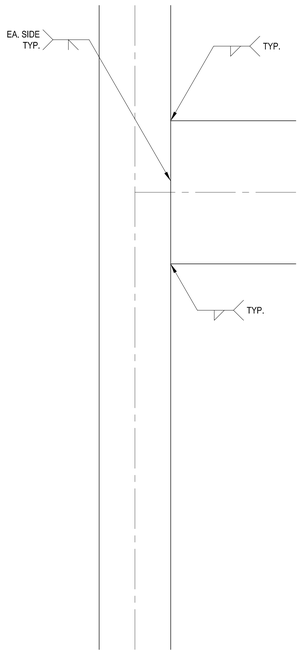

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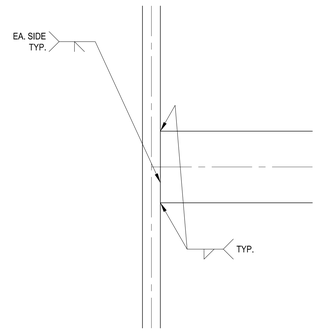

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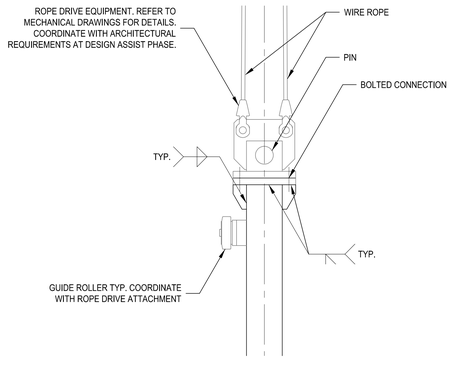

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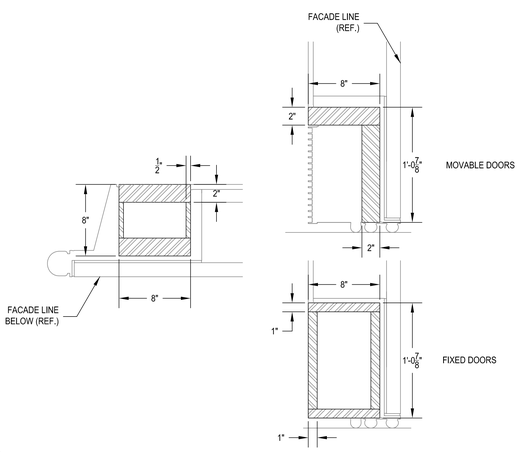
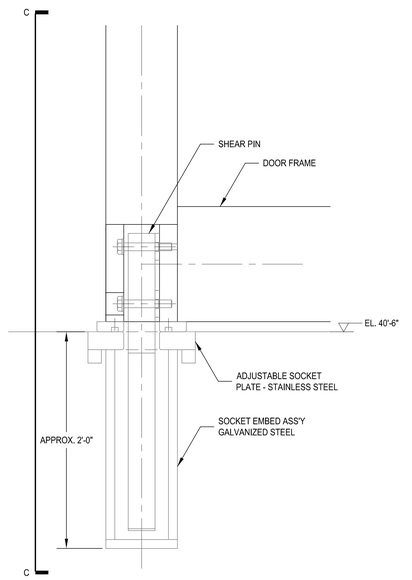


8 SECTION A-A
1" = 1'-0"

9 SECTION B-B
1" = 1'-0"



9 DETAIL 7
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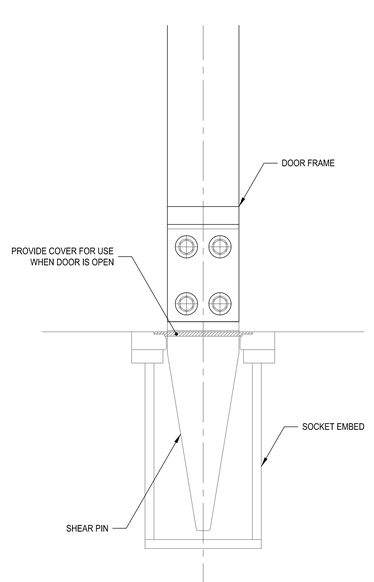

11 SECTION C-C
1" = 1'-0"

Damian Titus
BuildingConscience
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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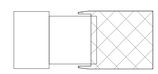

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DRAWING NO.
S-802.00

B-SCAN NO.
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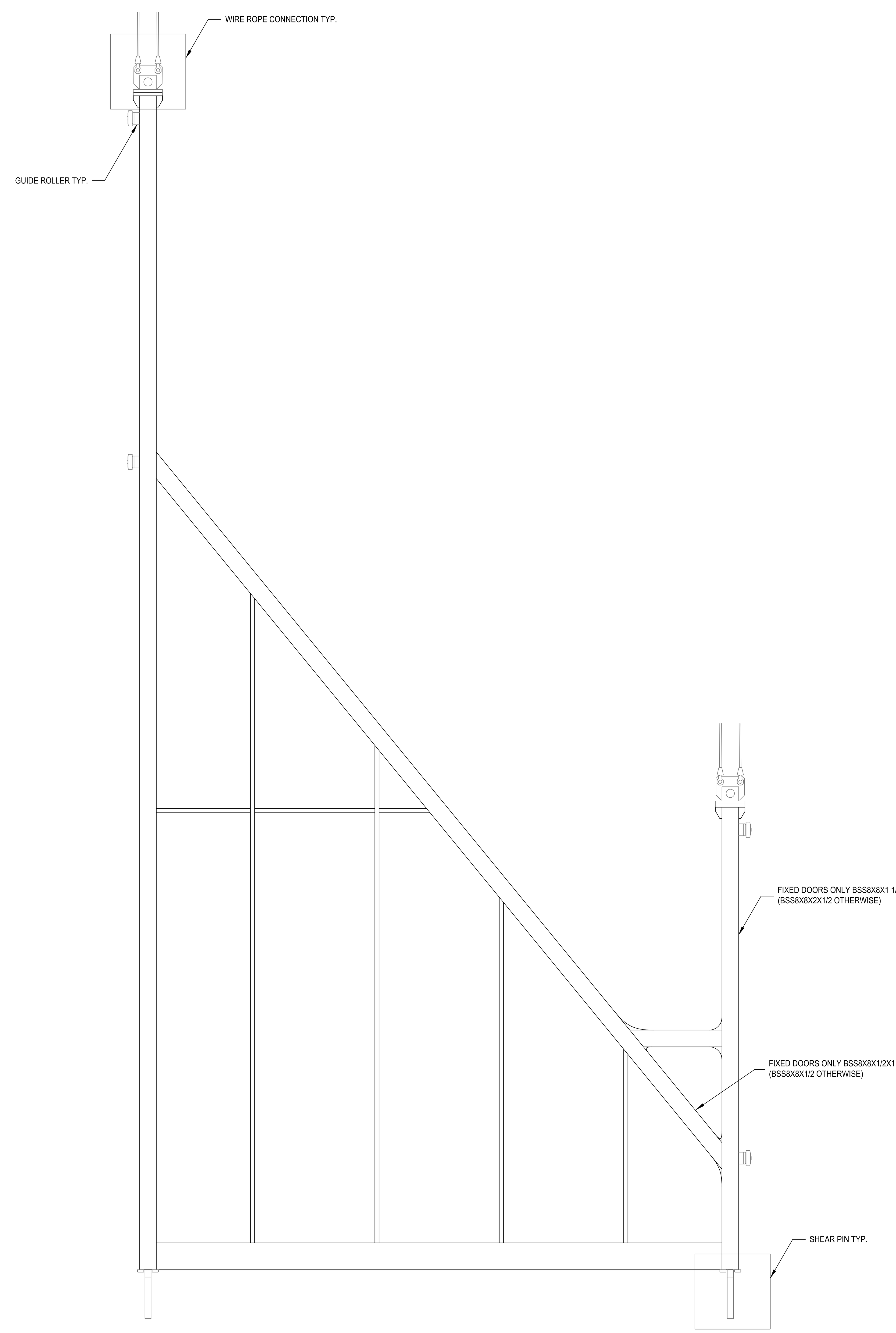
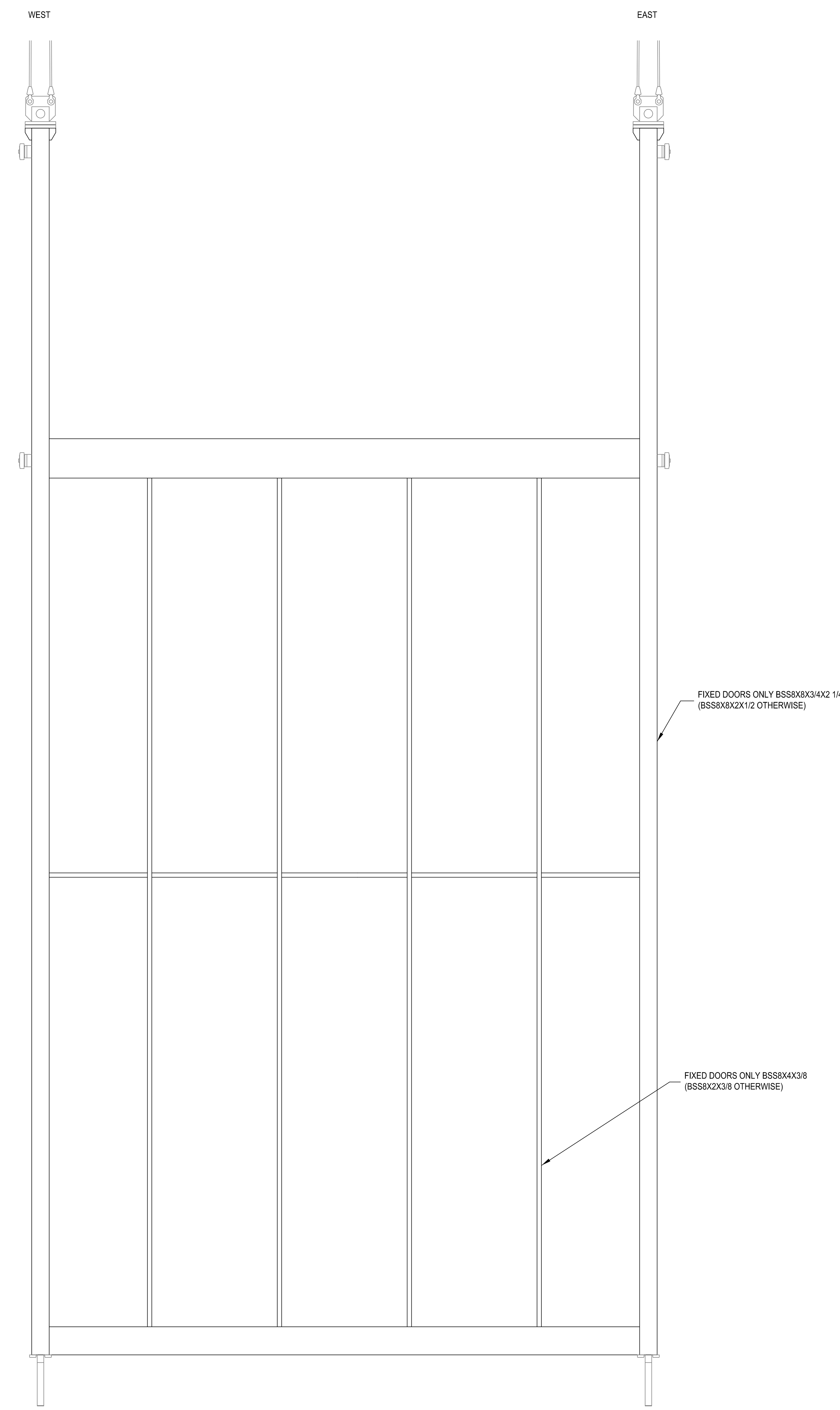
ES818328128 Scan Code



1 **OPERABLE WALL PANEL 4S**
1/2" = 1'-0"



1 **OPERABLE WALL PANEL 1N**
1/2" = 1'-0"

REFER TO DRAWING S-802.00 FOR DETAILS

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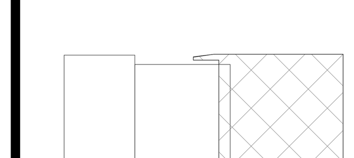

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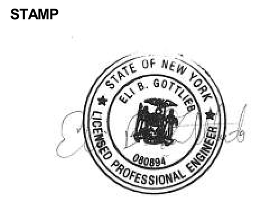

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PROJECT NUMBER
N11318.00

TITLE
DEPLOYED SHED NORTH & SOUTH DOORS - DETAILS I

DRAWING NO.
S-803.00

B-SCAN NO.
S-803.00

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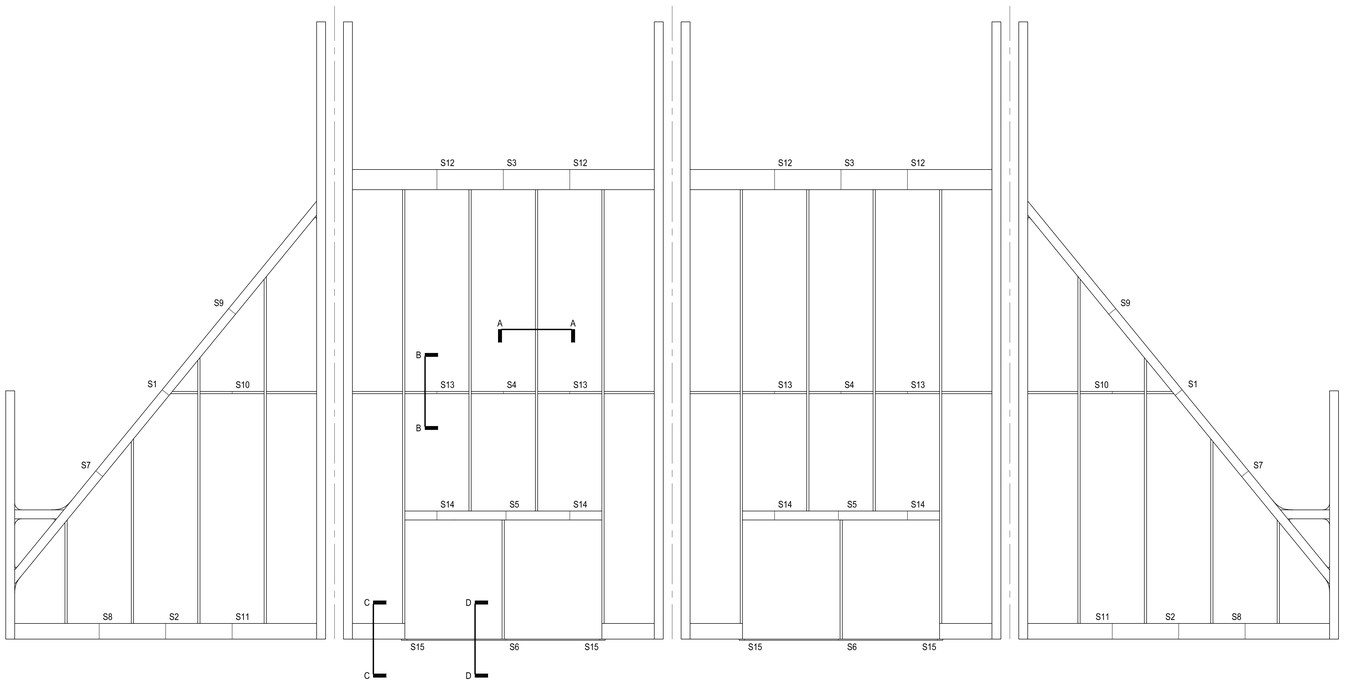
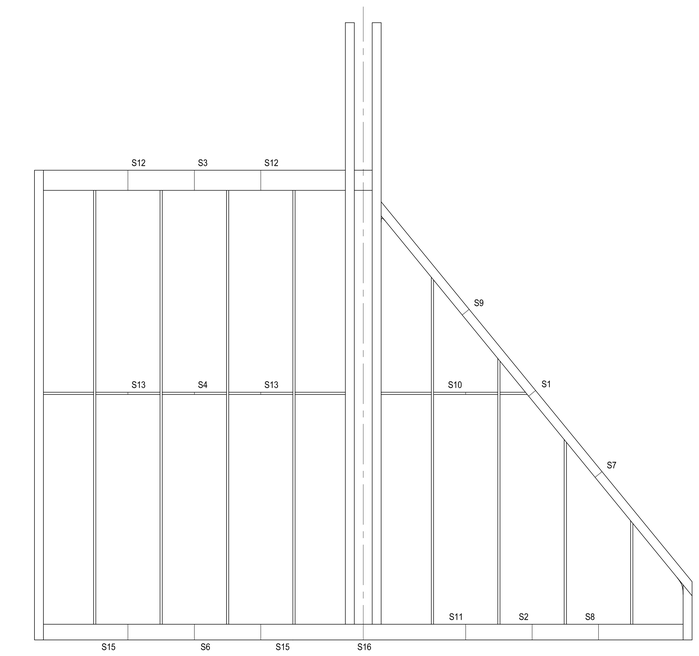


1 SOUTH WALL PANELS
1/4" = 1'-0"



2 SOUTH WALL PANELS
1/4" = 1'-0"

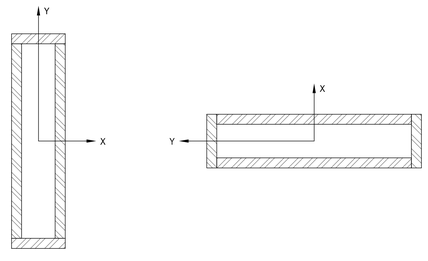
LOCATION	P [kip]	VX [kip]	VY [kip]	MX [k-ft]	MY [k-ft]	T [k-ft]
S1	5.8	2.6	3.2	26.0	2.6	14.0
S2	3.8	0.7	1.6	39.0	46.0	7.2
S3	1.9	0.6	0.5	51.0	49.0	3.2
S4	0.6	0.1	0.1	17.0	0.2	0.5
S5	0.1	1.1	0.2	21.0	17.0	8.8
S6	1.3	0.3	1.4	42.0	0.3	0.5
S7	7.5	1.6	5.0	25.0	12.0	12.0
S8	3.9	3.8	1.2	42.0	44.0	9.3
S9	5.5	1.4	0.9	22.0	9.0	3.4
S10	6.0	0.4	0.4	18.0	0.8	0.7
S11	3.8	4.6	3.9	37.0	47.0	4.7
S12	1.9	4.5	3.4	46.0	45.0	8.3
S13	0.7	0.2	0.3	17.0	0.5	1.0
S14	0.1	2.5	2.6	20.0	15.0	16.0
S15	1.3	0.3	2.3	39.0	0.3	0.5

3 CONNECTION FORCES - OPERABLE PANELS

LOCATION	P [kip]	VX [kip]	VY [kip]	MX [k-ft]	MY [k-ft]	T [k-ft]
S1	9.9	4.1	4.4	61.0	3.7	14.0
S2	36.0	3.0	11.0	162.0	60.0	15.0
S3	42.0	11.0	2.2	75.0	30.0	48.0
S4	3.2	1.1	0.6	31.0	0.7	1.6
S6	48.0	8.2	12.0	178.0	37.0	43.0
S7	14.0	0.6	4.3	55.0	11.0	12.0
S8	36.0	5.9	13.0	117.0	74.0	19.0
S9	7.0	0.9	2.7	50.0	9.8	6.1
S10	9.9	0.3	1.0	22.0	0.9	0.4
S11	36.0	1.8	6.8	197.0	52.0	9.6
S12	43.0	16.0	6.2	77.0	60.0	57.0
S13	3.2	2.1	3.4	29.0	0.8	1.8
S15	48.0	9.3	16.0	217.0	64.0	55.0
S16	47.0	13.0	3.7	256.0	141.0	61.0

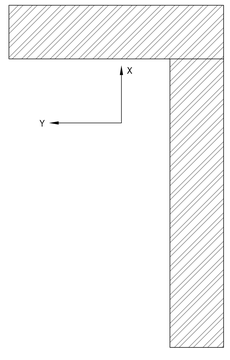
NOTES:
P... AXIAL CONNECTION FORCE (TENSION OR COMPRESSION)
V... SHEAR CONNECTION FORCE
M... MOMENT CONNECTION FORCE
T... TORSION CONNECTION FORCE
ALL FORCES AND MOMENTS ARE FACTORED

4 CONNECTION FORCES - INOPERABLE PANELS



5 SECTION A-A
VERTICAL MEMBERS

6 SECTION B-B
HORIZONTAL AND INCLINED MEMBERS



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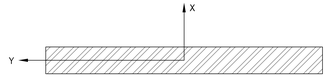

8 SECTION D-D

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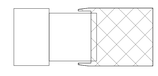

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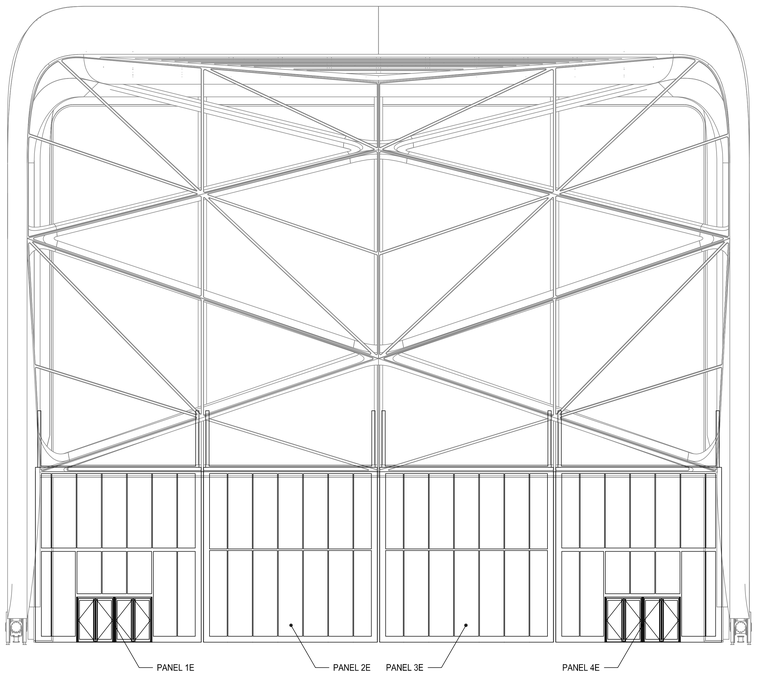
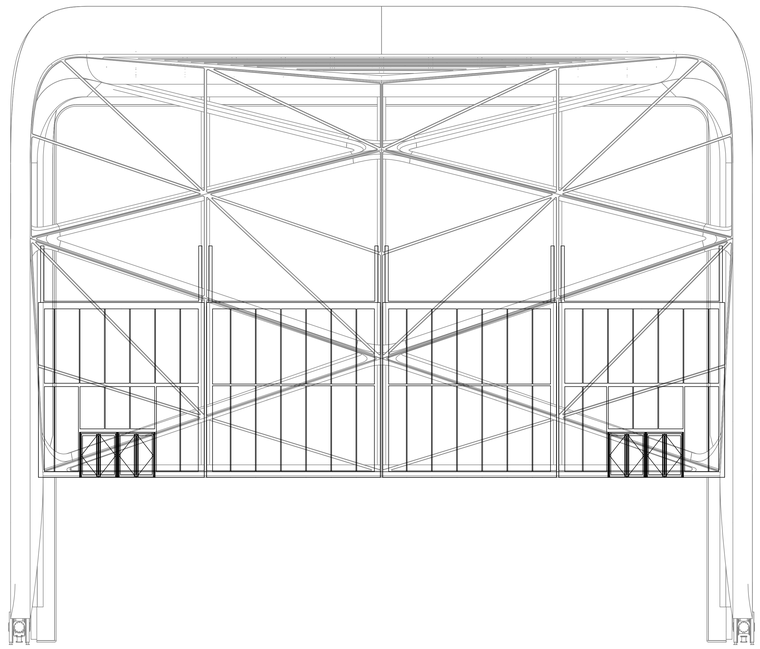


1 EAST ELEVATION - DOORS CLOSED
3/32" = 1'-0"



2 EAST ELEVATION - DOORS OPEN
3/32" = 1'-0"

NOTE: ASSUME AESS TOLERANCES FOR OPERABLE DOOR ASSEMBLIES

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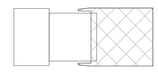

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1		ADVANCED PROCUREMENT BID SET	06.16.2014

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PROJECT NUMBER
N11318.00

TITLE
DEPLOYED SHED EAST DOORS - LAYOUT

DRAWING NO.
S-811.00

B-SCAN NO.
S-811.00

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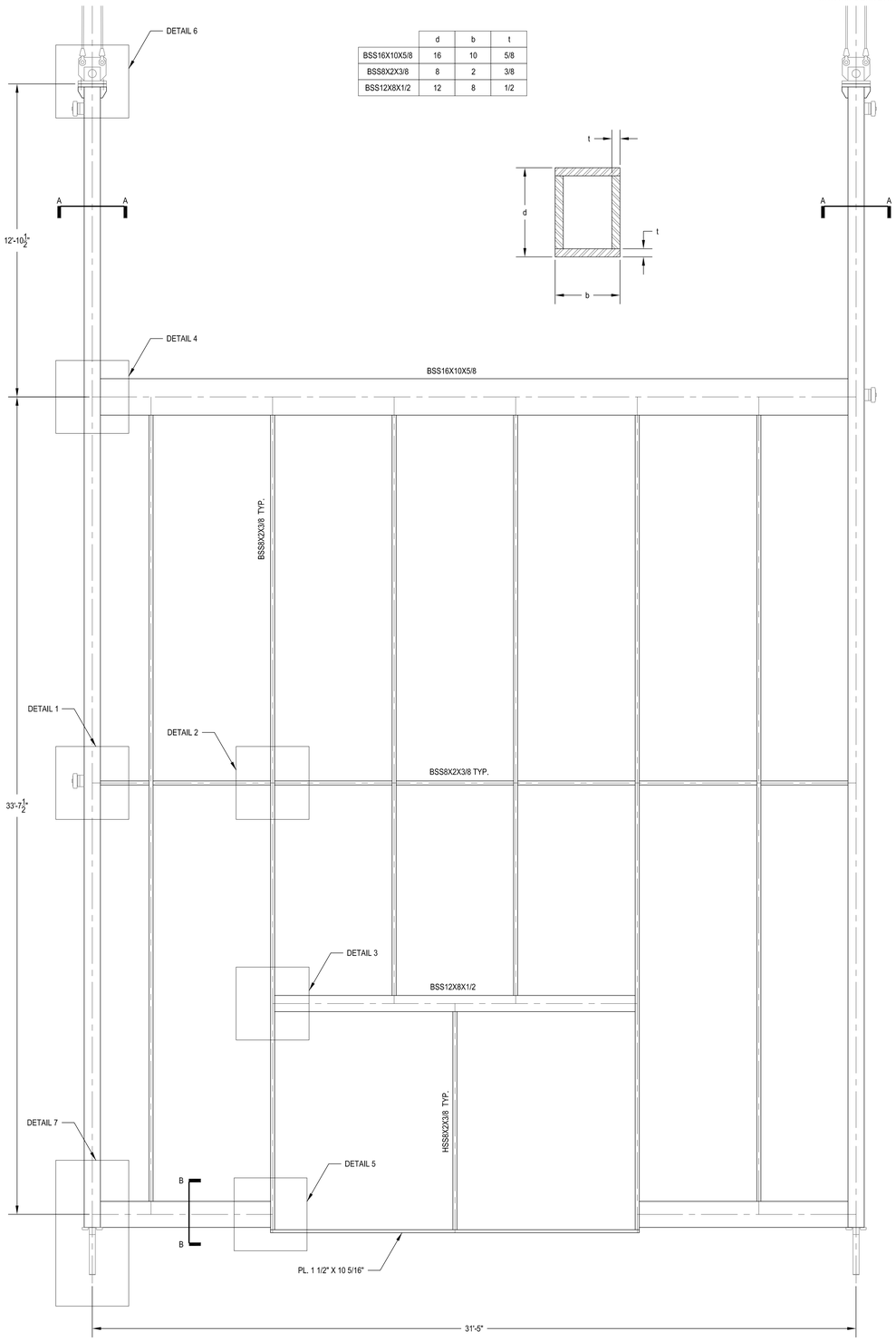
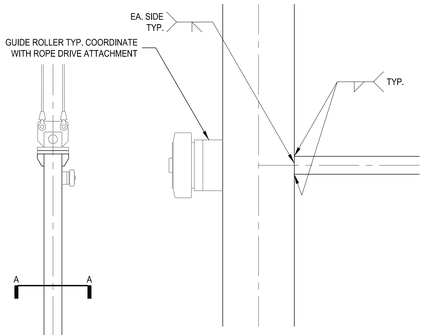


	d	b	t
BSS16X10X5/8	16	10	5/8
BSS8X2X3/8	8	2	3/8
BSS12X8X1/2	12	8	1/2

1 OPERABLE WALL PANEL 1E
1/2" = 1'-0"



2 DETAIL 1
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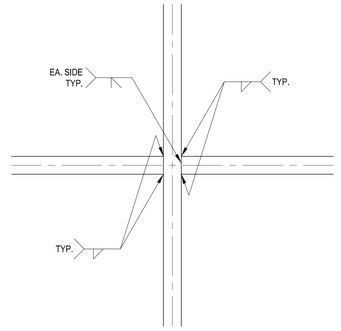

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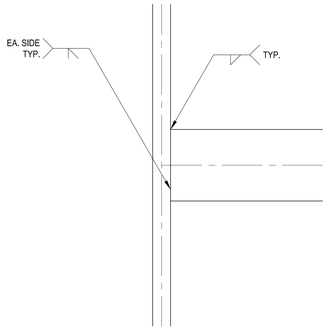

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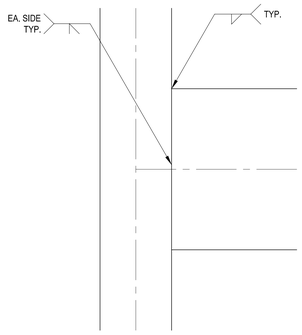

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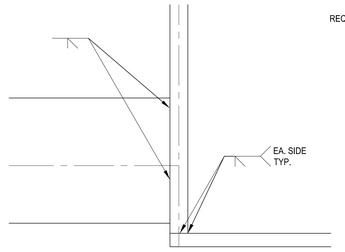

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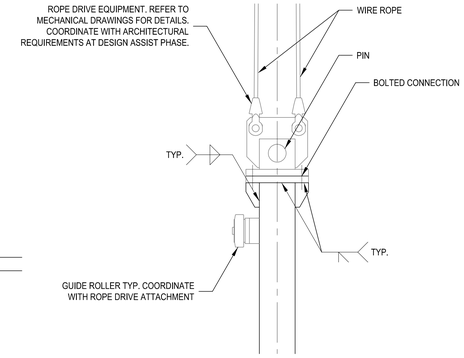

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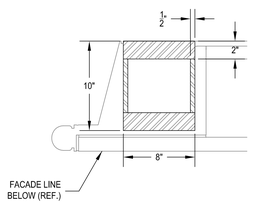
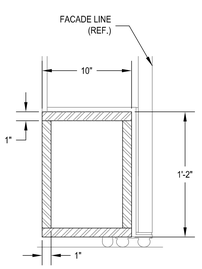


8 SECTION A-A
1" = 1'-0"



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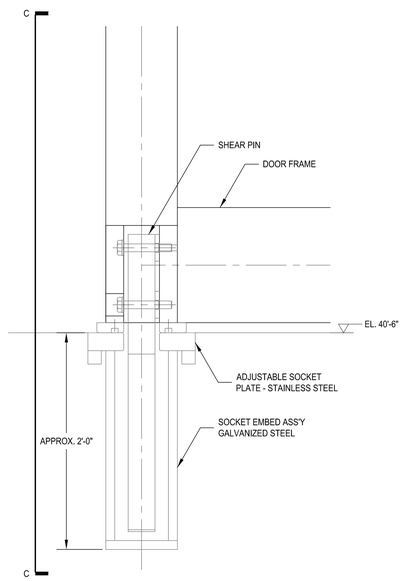

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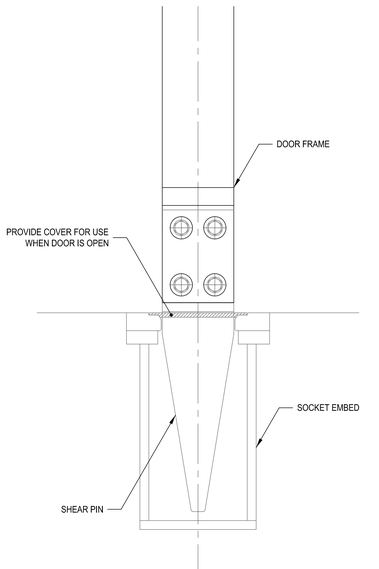

11 SECTION C-C
1" = 1'-0"

Damian Titus
Building
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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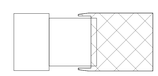
KEY PLAN



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N11318.00

TITLE
DEPLOYED SHED EAST DOORS - FRAMING

DRAWING NO.
S-812.00

B-SCAN NO.
S-812.00

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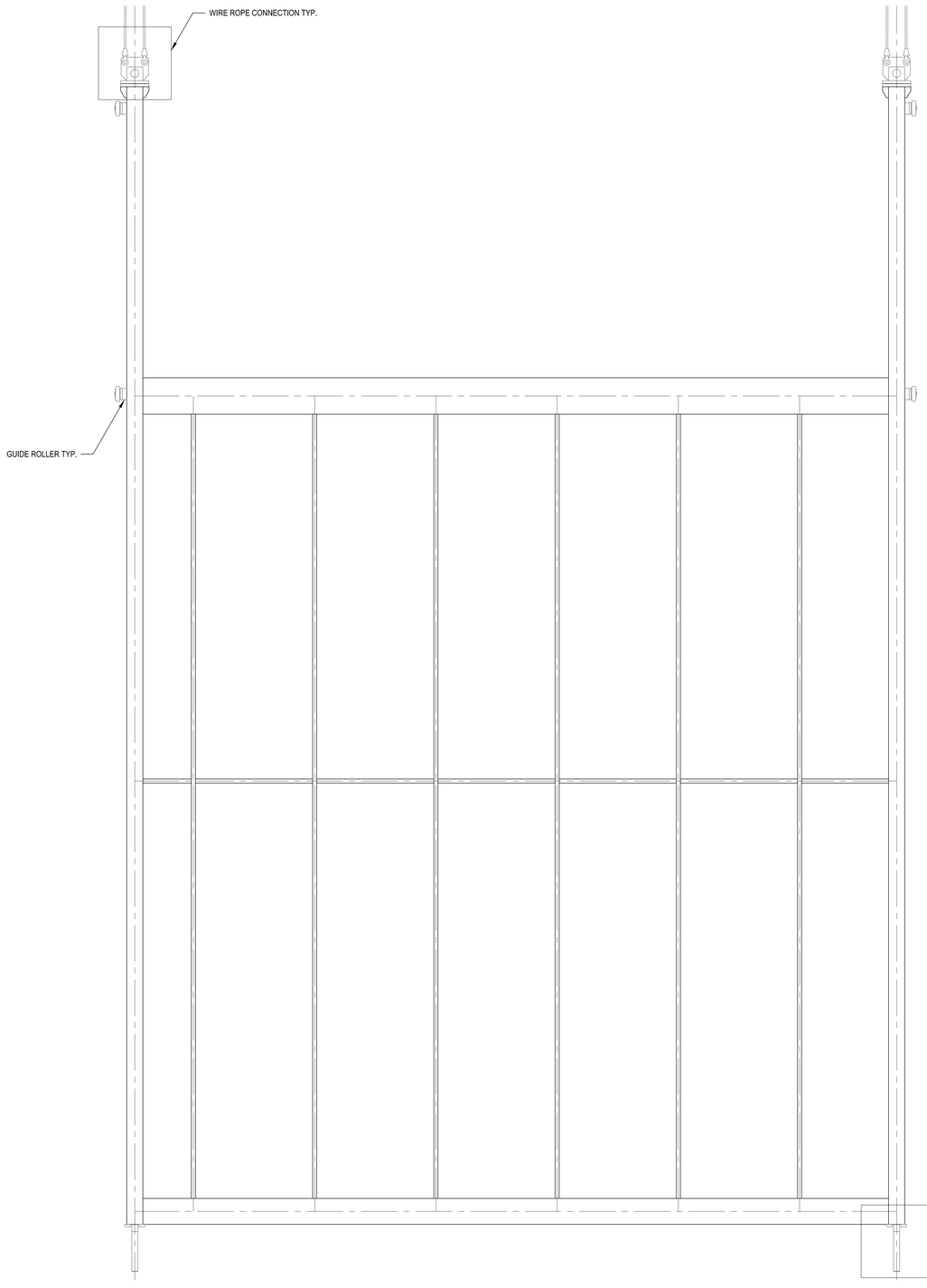

REFER TO DRAWING S-812.00 FOR DETAILS

1 OPERABLE WALL PANEL 2E
1/2" = 1'-0"

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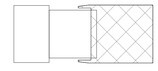

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DEPLOYED SHED EAST DOORS - DETAILS I

Damian Titus
DOB Buildings
APPROVED
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AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
S-813.00

B-SCAN NO.
S-813.00

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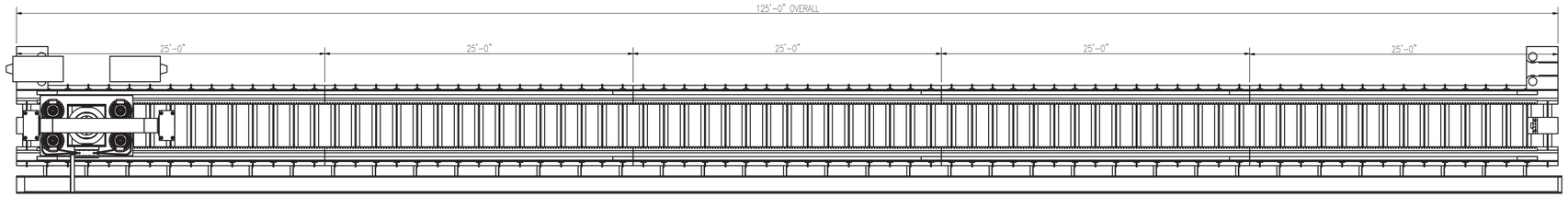
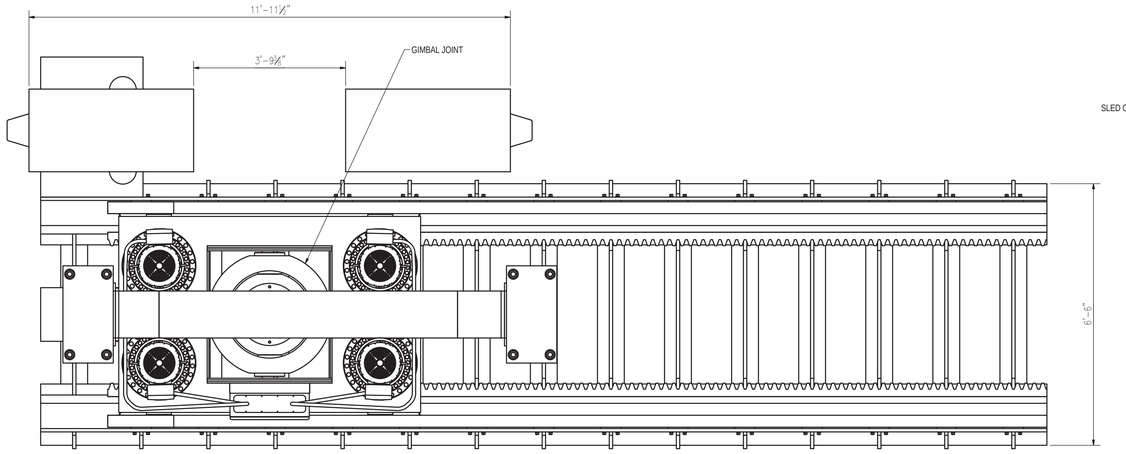


SHED DRIVE MACHINERY PLAN VIEW

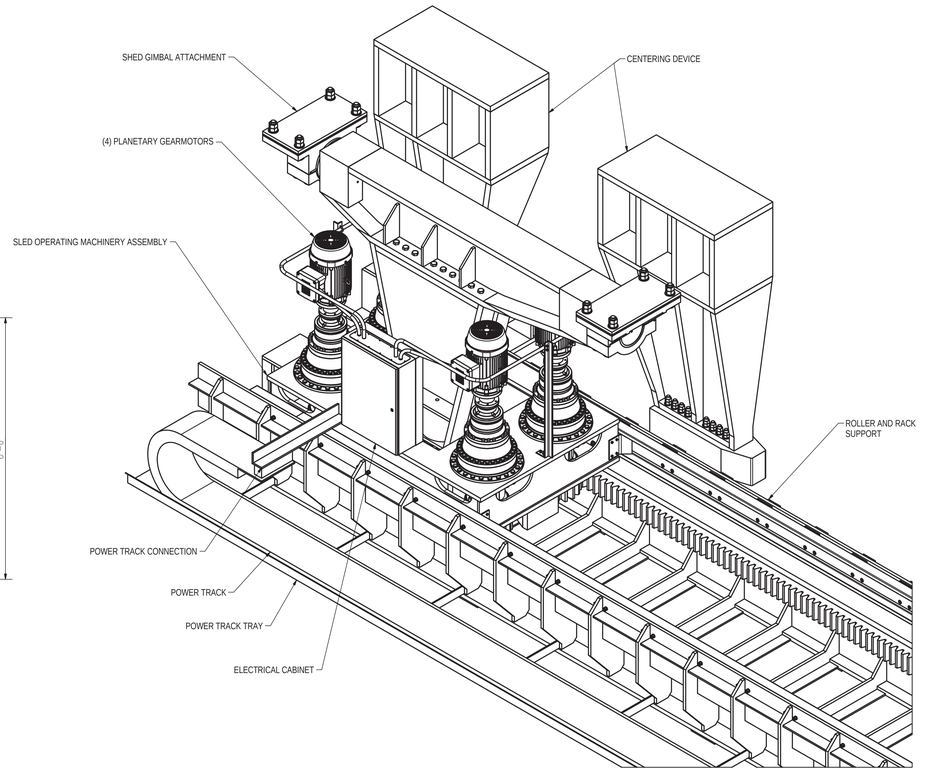
SCALE: 1/4" = 1'-0"

(2) LOCATIONS



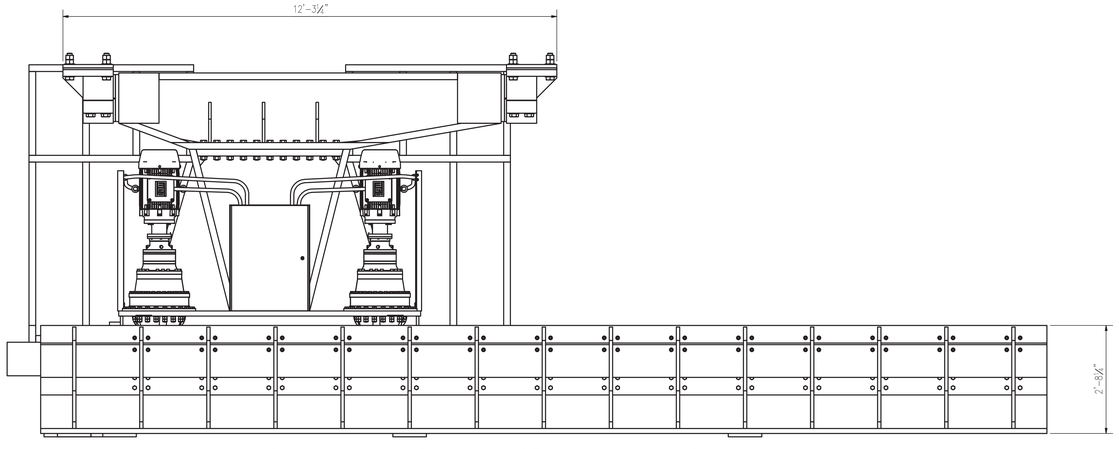
SHED DRIVE MACHINERY ASSEMBLY PLAN VIEW DETAIL

SCALE 3/4" = 1'-0"



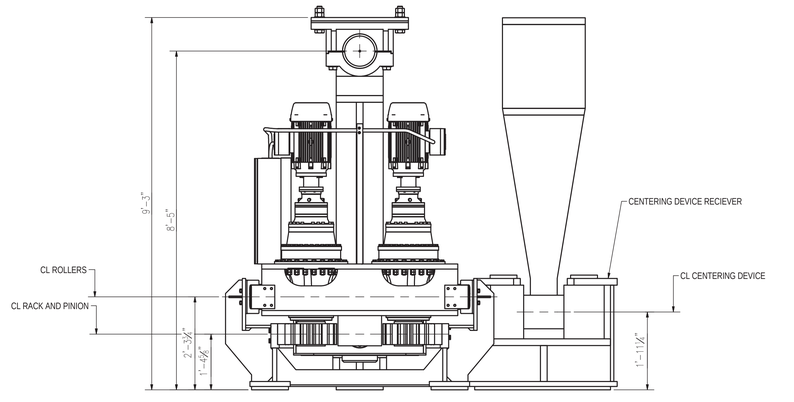
SHED DRIVE MACHINERY ASSEMBLY OVERVIEW

SCALE 3/4" = 1'-0"



SHED DRIVE MACHINERY ASSEMBLY ELEVATION DETAIL

SCALE: 3/4" = 1'-0"



SHED MACHINERY ASSEMBLY FRONT VIEW

SCALE 3/4" = 1'-0"

NOTES:

1. ELECTRICAL DETAILS SHOWN ON THIS DRAWING FOR CONCEPTUAL PURPOSES ONLY.
2. SHED DRIVE SYSTEM DESIGNED FOR 150% OF THE FULL LOAD MOTOR TORQUE. MOTORS WERE SELECTED FOR A TOTAL OPERATING RESISTANCE OF 100KIPS. COMPONENTS WERE DESIGNED FOR A STATIC HURRICANE LOAD OF 400 KIPS TOTAL. EQUIPMENT AND SUPPORTS DESIGNED TO WITHSTAND ECCENTRIC LOADING FROM A DRIVE FAILURE UNDER NORMAL OPERATING CONDITIONS AND, IN A STATIC CASE, A BRAKE FAILURE UNDER HURRICANE LOADING.

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DOB Buildings Document Hub

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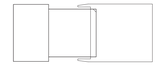
KEY PLAN



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44	33	DOB AMENDMENT 5	03.08.2016
10		100% CONSTRUCTION DOCUMENTS	03.18.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014
1		ADV. PROCUREMENT BID SET	06.16.2014

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DRAWN BY C.P.M.
CHECKED BY B.H.

PROJECT NUMBER
2833

TITLE
SHED DRIVE - SHED OPERATING MACHINERY ASSEMBLY

DRAWING NO.
K-101.00

B-SCAN NO.
K-101.00

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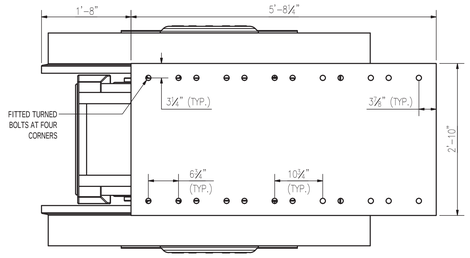
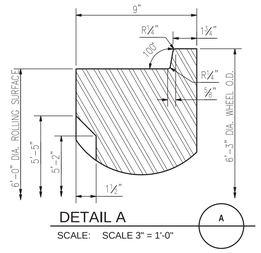


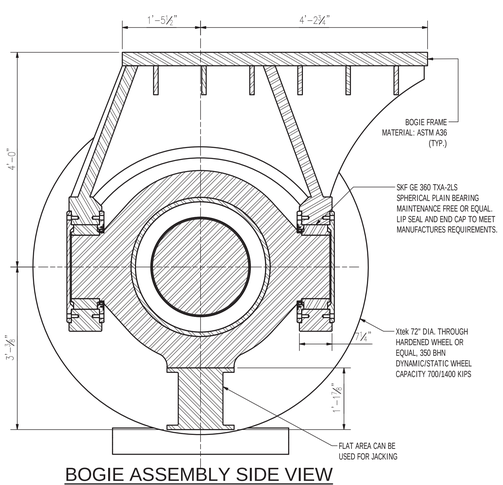
BOGIE ASSEMBLY PLAN VIEW

SCALE 1" = 1'-0"



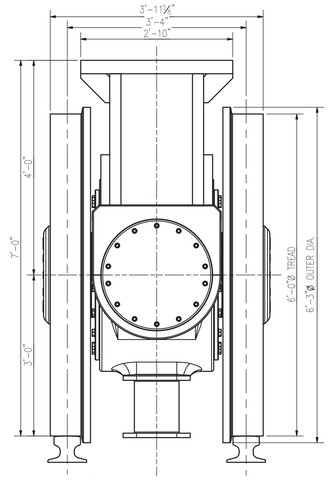
DETAIL A

SCALE: SCALE 3" = 1'-0"



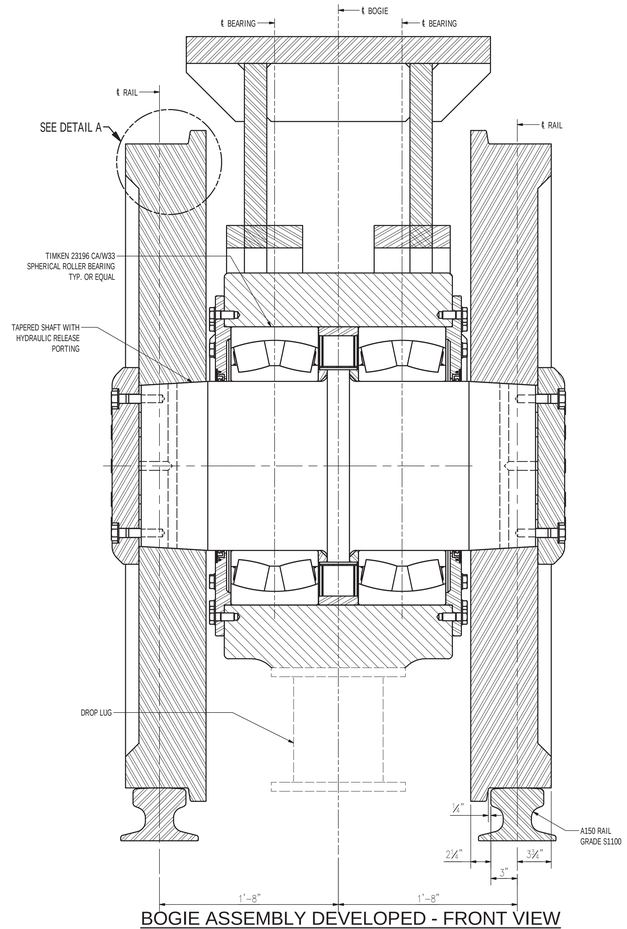
BOGIE ASSEMBLY SIDE VIEW

SCALE 1" = 1'-0"



BOGIE ASSEMBLY FRONT VIEW

SCALE 1" = 1'-0"



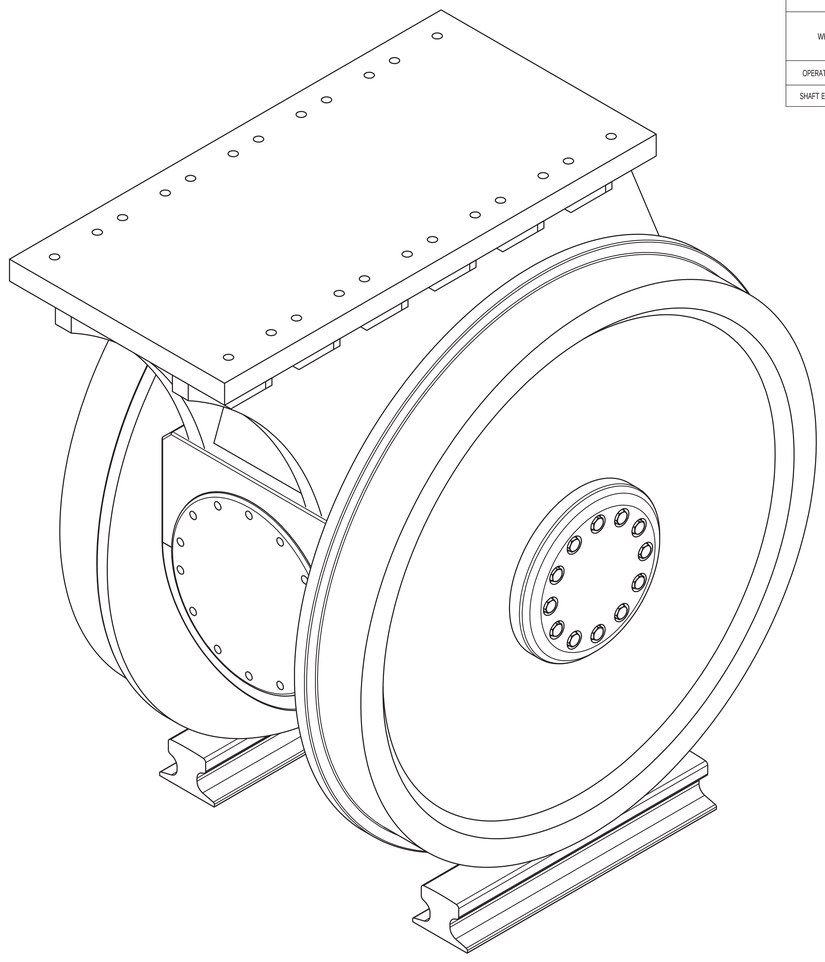
BOGIE ASSEMBLY DEVELOPED - FRONT VIEW

SCALE 2" = 1'-0"

(6) ASSEMBLIES REQD

NOTE:
1. CONTRACTOR SHALL ACCOUNT FOR MISCELLANEOUS COMPONENTS NOT SHOWN IN THE DRAWINGS
2. THE BOGIE WAS DESIGNED FOR A DYNAMIC DESIGN LOAD COMBINATION OF Fz=1342 Kips, Fy=49Kips,
3. THE BOGIE WAS DESIGNED FOR A STATIC DESIGN LOAD COMBINATION OF Fz=1891 Kips, Fy=202Kips
4. FOR BOGIE LOADING, REFER TO DRAWING S-765.00
5. WORK THIS SHEET WITH K-112

TABLE OF BOGIE FRAME ASSEMBLY PARTS		
PART	QTY.	Description
PLAIN BEARING B1	12	SPHERICAL PLAIN BEARING SKF GEC 360 TXA-2RS MAINTENANCE FREE DYNAMIC CAPACITY: 3400 kips STATIC CAPACITY: 5700 Kips OR EQUAL.
SPHERICAL BEARING B2	12	SPHERICAL ROLLER BEARING TIMKEN 23196 CA/W33 TYP. DYNAMIC CAPACITY: 1600 kips STATIC CAPACITY: 2790 Kips OR EQUAL
WHEEL	12	Xtek 72" DIA. THROUGH HARDENED WHEEL OR EQUAL, 350 BHN DYNAMIC CAPACITY: 700 kips STATIC CAPACITY: 1400 Kips
OPERATING RAIL	4	A150 RAIL GRADE S1100
SHAFT END COVER	12	STRUCTURAL STEEL



BOGIE ASSEMBLY

SCALE 2" = 1'-0"

(6) LOCATIONS

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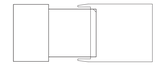
KEY PLAN



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DRAWN BY L.M.
CHECKED BY B.H.

PROJECT NUMBER
02833.00

TITLE
BOGIE ASSEMBLY

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
K-111.00

B-SCAN NO.

K-111.00

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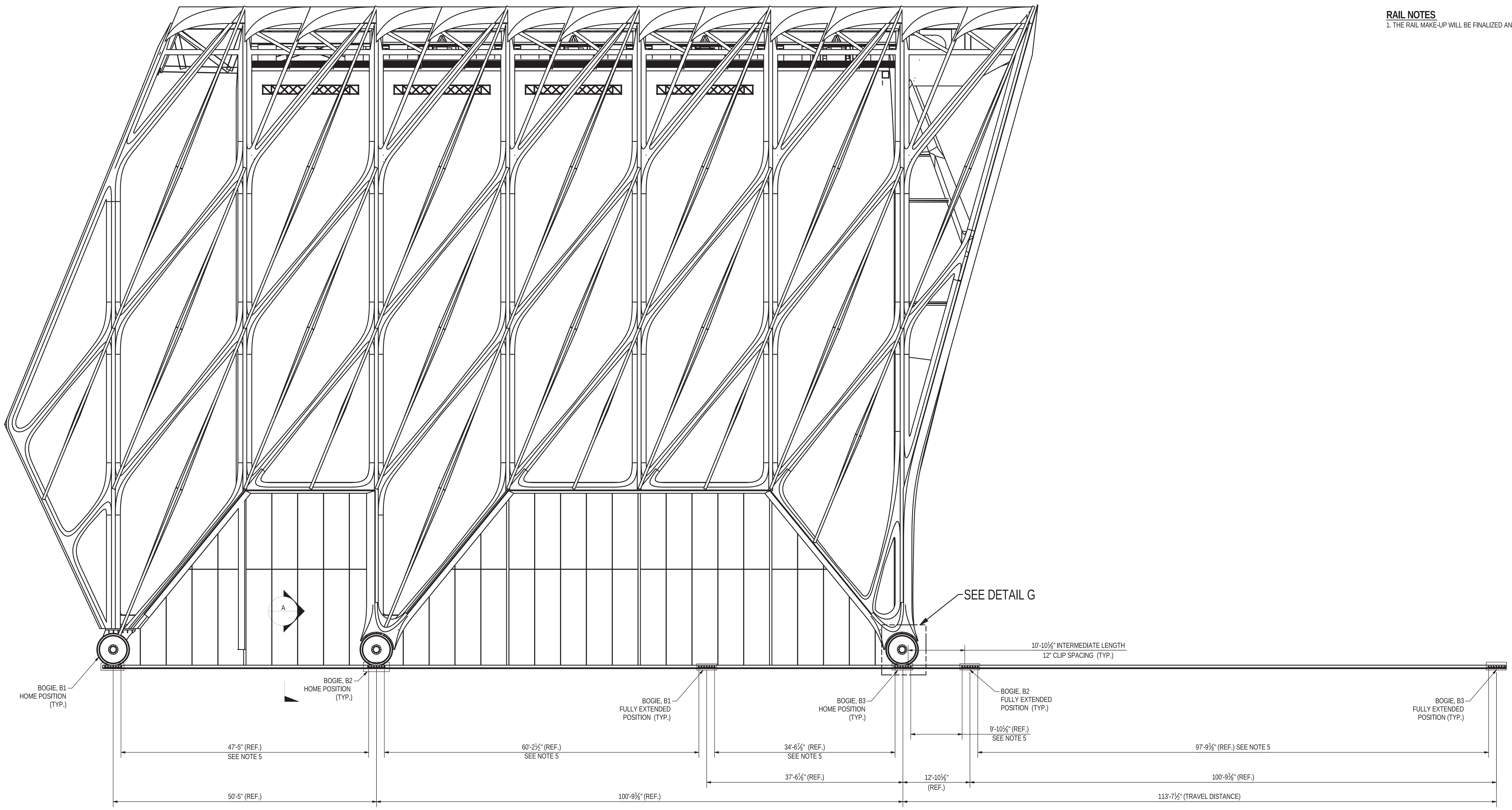
ES820593925 Scan Code

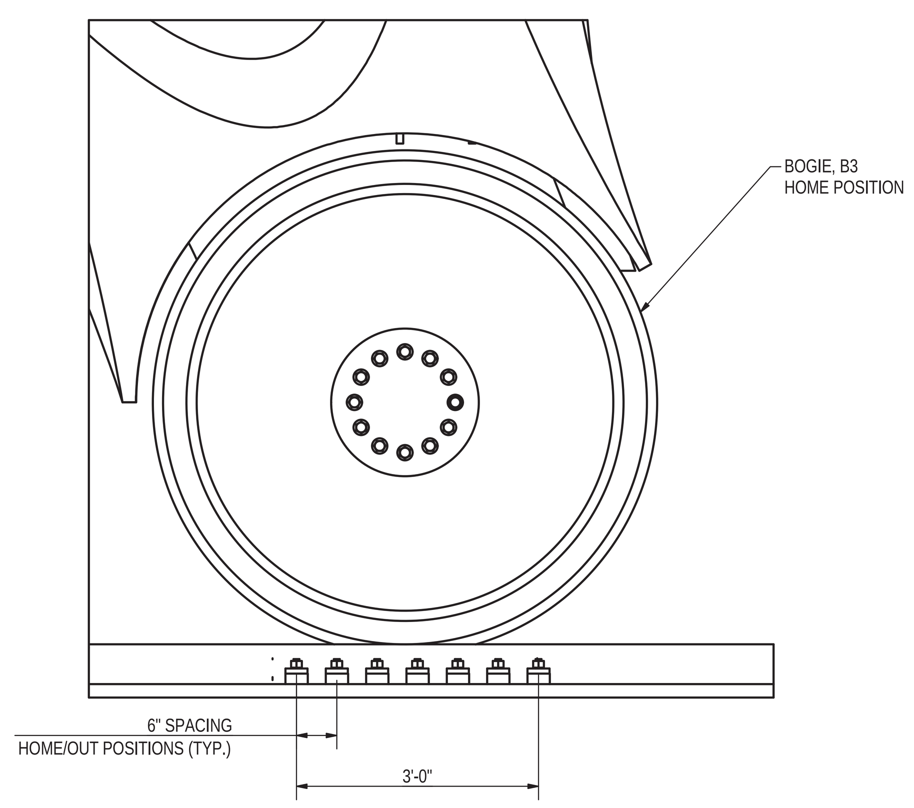
RAIL CLIP NOTES

1. RAIL CLIPS SPACING TO BE 6" C-C/C-C FOR 7 RAIL CLIP AT THE HOME FULLY EXTENDED POSITION.
2. RAIL CLIPS SPACING TO BE 12" C-C/C-C AT THE INTERMEDIATE POSITIONS.
3. RAIL CLIPS SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
4. AT THE HOME/EXTENDED POSITIONS 7 CLIPS AT 6" APART ARE TO RESIST BOGIE STATIC LOADS (Fy)
5. INTERMEDIATE CLIPS ARE TO RESIST BOGIE DYNAMIC LOAD (Fy)

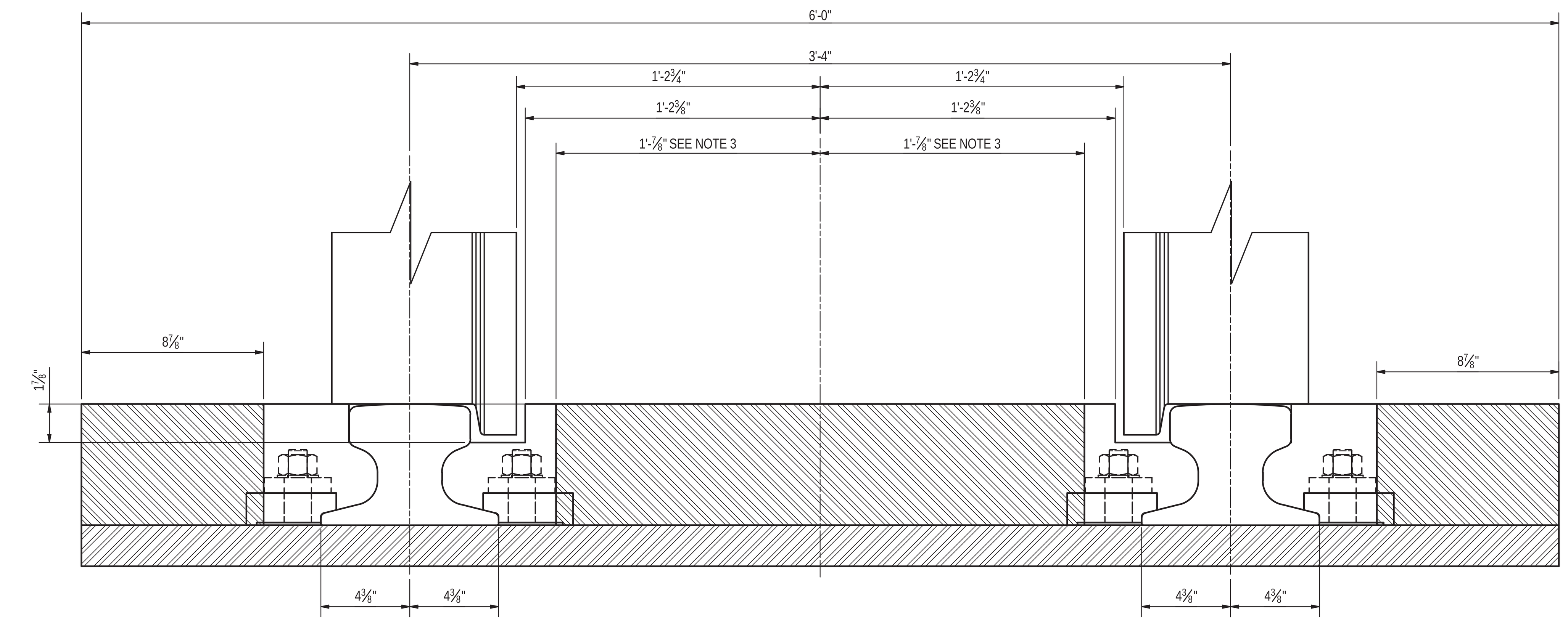
RAIL NOTES

1. THE RAIL MAKE-UP WILL BE FINALIZED AND PUBLISHED IN DOCUMENTS DURING DESIGN ASSIST.





DETAIL A (A)
SCALE: 3/4"=1'-0"



SECTION A-A (A)
SCALE: 3"=1'0"

Damian Titus
Buildings
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Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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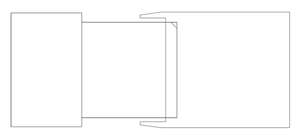
KEY PLAN



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DRAWN BY L.M.
CHECKED BY B.H.

PROJECT NUMBER
02833.00

TITLE

RAIL CLIP LAYOUT

DRAWING NO.
K-133.00

B-SCAN NO.

K-113.00

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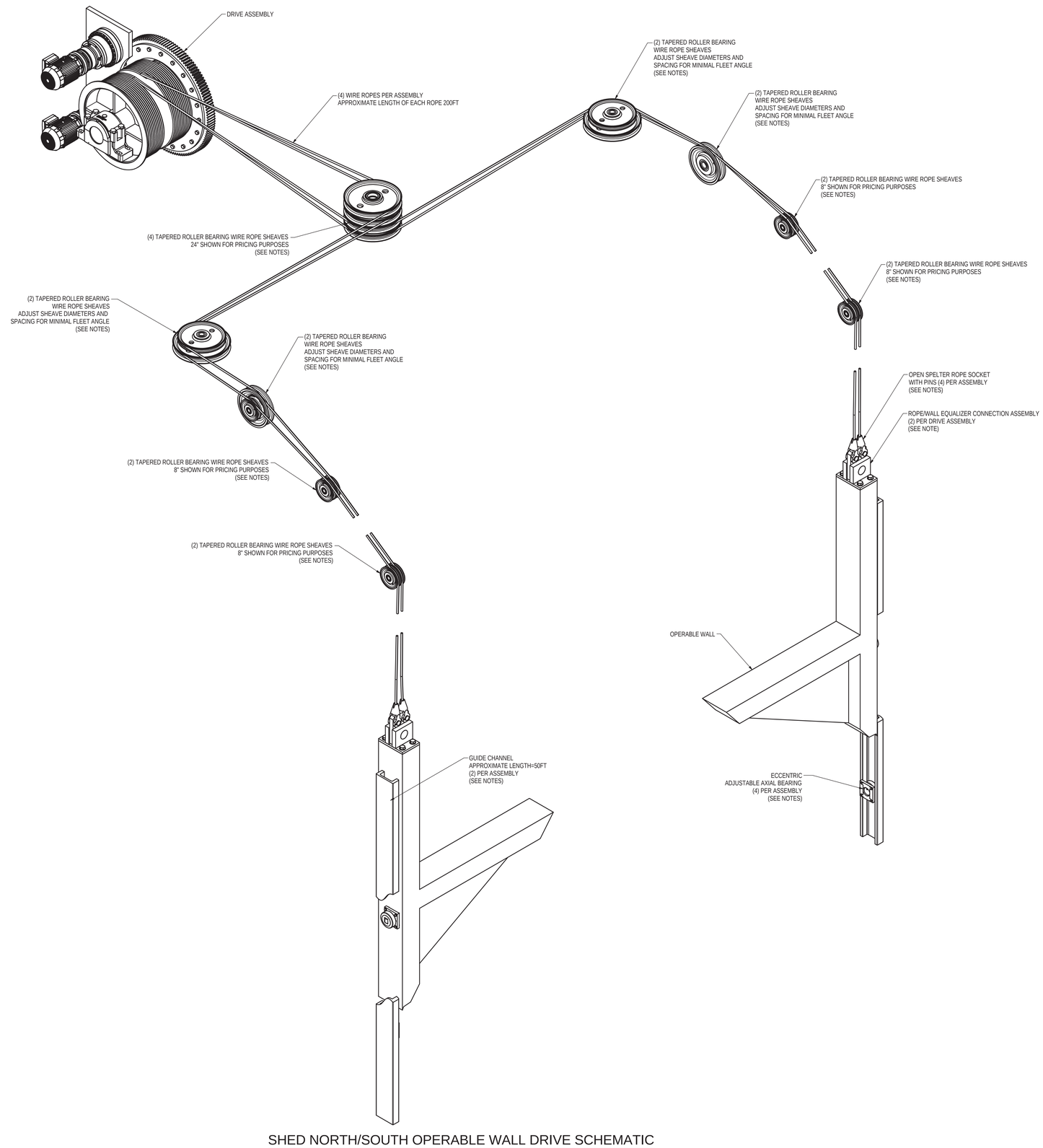

SHED NORTH/SOUTH OPERABLE WALL DRIVE SCHEMATIC

(8) LOCATIONS

SCALE: NOT TO SCALE

NOTES:

1. APPROXIMATE DIMENSIONS ARE PROVIDED FOR PRICING PURPOSES ONLY.
2. CONTRACTOR TO ADJUST POSITIONS AND ORIENTATIONS OF SHEAVES, DRUMS AND ROPE CONNECTIONS, IN COORDINATION WITH THE ENGINEERS AND ARCHITECT, IN ORDER TO ENSURE THAT AESTHETICS ARE PERSEVERED AND ROPE FLEET ANGLES REMAIN BELOW 2°.
3. SUBSTITUTIONS TO MACHINERY COMPONENTS MAY BE MADE WITH THE APPROVAL OF THE ENGINEER.
4. THE CONTRACTOR SHALL PROVIDE ANY FASTENERS AND SHIMS NECESSARY TO SECURE SHEAVE SUPPORTS TO THE STRUCTURE. SHIMS SHALL BE PROVIDED TO AIDE IN LEVELING OF THE WALL DURING INSTALLATION.
5. CONTRACTOR TO VERIFY MECHANICAL COMPONENT SIZING.
6. SEE THE MACHINERY SPECIFICATION FOR ADDITIONAL DETAILS AND REQUIREMENTS.
7. MACHINERY DESIGNED FOR AN OPERABLE WALL DEAD LOAD OF 20TONF.

ROPE/WALL EQUALIZER CONNECTION ASSEMBLY:

1. THE CONTRACTOR SHALL PROVIDE A ROPE CONNECTION TO THE OPERABLE WALL THAT EQUALIZES THE LOADS BETWEEN THE TWO REDUNDANT OPERATING ROPES. THIS CONNECTION WILL ALSO ALLOW FOR +/- 6" OF LENGTH ADJUSTMENT ON THE INDIVIDUAL ROPES. ROPE ADJUSTMENT MAY BE ALTERNATIVELY BE PROVIDED AT THE DRUM ROPE TERMINATION.
2. THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE METHOD OF LEVELING THE WALL DURING INSTALLATION TO THE ENGINEER FOR APPROVAL.
3. THE EQUALIZER CONNECTION MUST HAVE A MINIMUM FACTOR OF SAFETY OF 8:1 ON THE MAXIMUM LOAD TO LIFT.
4. THE EQUALIZER CONNECTION MUST BE CENTERED ON THE OPERABLE WALL CONNECTION COLUMN.
5. ROPE ADJUSTMENT MUST BE A SCREW ADJUSTMENT.

SHEAVES:

1. CONTRACTOR SHALL PROVIDE ALL SUPPORT WELDMENTS, SHAFTING, SHIMS AND FASTENERS NECESSARY FOR INSTALLATION OF ALL WIRE ROPE SHEAVES.
2. SHEAVE SUPPORT GEOMETRY SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER, THE MECHANIZATION ENGINEER AND THE ARCHITECT.

OPERATIONAL PARAMETERS:

1. ONE WAY OPERATING TIME OF 5 MINUTES

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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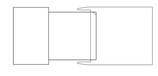

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DRAWN BY C.P.M.
CHECKED BY B.H.

PROJECT NUMBER
2833

TITLE

SHED NORTH & SOUTH OPERABLE WALL - SCHEMATIC AND NOTES

DRAWING NO.
K-121.00

B-SCAN NO.
K-121.00
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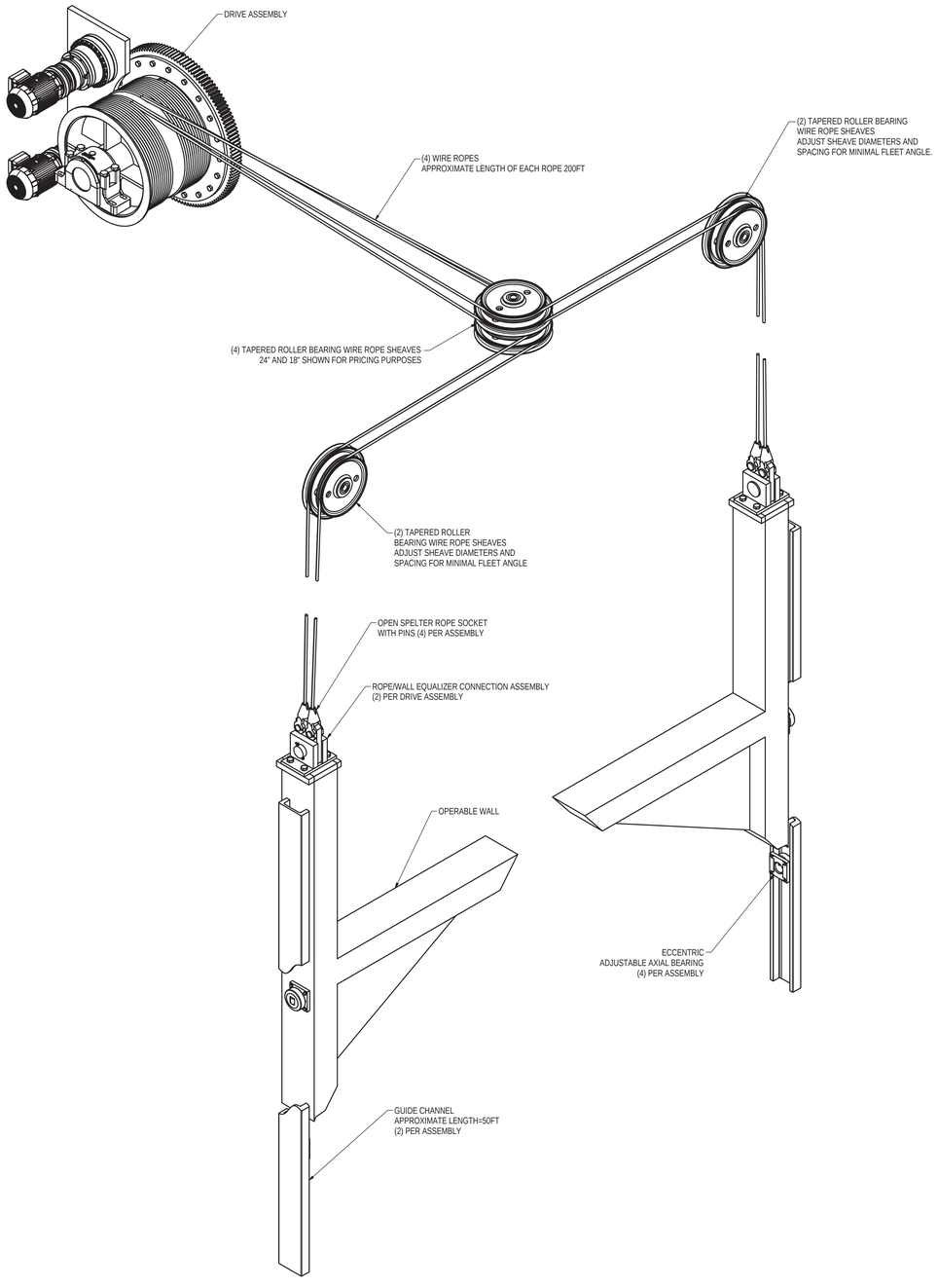
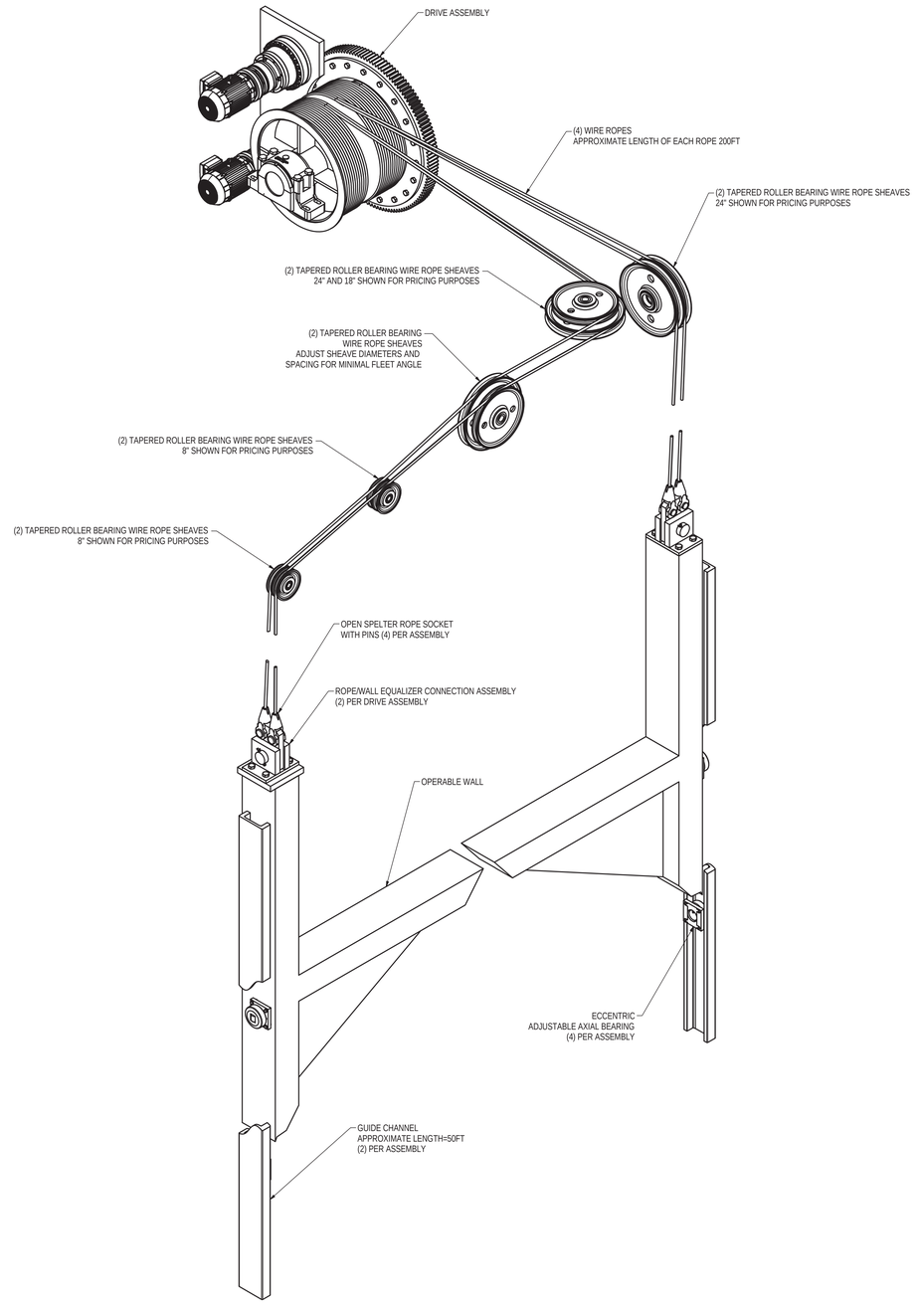


SHED EAST OPERABLE WALL CENTRAL DRIVE SCHEMATIC

TWO LOCATIONS

SCALE: NOT TO SCALE



SHED EAST OPERABLE WALL CORNER DRIVE SCHEMATIC

TWO LOCATIONS

SCALE: NOT TO SCALE

NOTES:

1. SEE NOTES ON SHEET K-122 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

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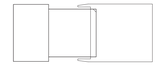
KEY PLAN



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PROJECT NUMBER
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TITLE
SHED EAST OPERABLE WALLS - DRIVE SCEMATICS

DRAWING NO.
K-122.00

B-SCAN NO.
K-122.00

5 of 20

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Damian Titus
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APPROVED
Under Directive 3 of 9/25
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Date: 02/15/2018
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M-701.00	M-701.00	DDC ARCHITECTURE

NOTE:

WHERE CONFLICTS EXIST BETWEEN THE ABOVE DRAWING LIST AND THE DRAWING LIST ISSUED BY THE ARCHITECT, THE DRAWING LIST ISSUED BY THE ARCHITECT SHALL GOVERN.

GENERAL NOTES

1. ALL LOW PRESSURE BRANCH DUCTWORK (SUPPLY AND RETURN) SHALL BE PROVIDED WITH VOLUME DAMPERS RESPECTIVELY. PROVIDE CORD OPERABLE VOLUME DAMPERS WHERE LOCATED ABOVE IN ACCESSIBLE CEILINGS (I.E. TOILET ROOMS).
2. 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.
3. ALL DUCTWORK AND PIPING ENCLOSURES FOR HORIZONTAL OFFSETS SHALL BE OF 2 HOUR 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, CONDENSER WATER AND HOT WATER VALVED OUTLETS SHALL BE PROVIDED WITH FLUSH LOOPS.
14. ALL ELEVATOR HOISTWAY VENT SHAFTS AND STAIR VENTS SHALL BE AS INDICATED ON THE ARCHITECTURAL AND HVAC DRAWINGS.
15. ALL 2 HOUR RATED ENCLOSURES FOR DUCTWORK AND PIPING ARE PROVIDED UNDER ANOTHER SECTION OF THE SPECIFICATIONS.
16. WALL MOUNTED THERMOSTATS SHOULD BE LOCATED 4'-6" A.F.F. AND 9" FROM EDGE OF DOOR U.O.N. FINAL LOCATIONS TO BE VERIFIED WITH THE ARCHITECT. FINISHED PAINT COLOR TO BE SELECTED BY THE OWNER. MANUFACTURER'S LOGO SHALL NOT BE EXPOSED.
17. UNLESS OTHERWISE NOTED ON PLANS, ALL GRATINGS, CATWALKS AND STEEL RUNG ACCESS LADDERS WILL BE PROVIDED UNDER ANOTHER SECTION OF THE SPECIFICATIONS.
18. FOR SIZES OF THE MOTOR CONTROL CENTERS (MCC, INCLUDING VARIABLE SPEED DRIVES) AND ARRANGEMENT AND/OR GROUPING OF ISOLATED STARTERS, REFER TO ELECTRICAL CONTRACT DOCUMENTS.
19. REFER TO SPECIFICATIONS FOR ACOUSTIC LINING REQUIREMENTS NOT SHOWN ON THE DRAWINGS.
20. THIS CONTRACTOR SHALL REVIEW THE LOCATION OF EACH MOTOR AND ITS RESPECTIVE MCC (AS INDICATED ON THE ELECTRICAL DRAWINGS DIVISION 260000) AND REVIEW THE SIZE OF THE RESPECTIVE FEEDER (ALSO INDICATED ON THE ELECTRICAL DRAWING) AND SHALL PROVIDE ALL REQUIRED MEASURES TO MITIGATE THE HARMONICS GENERATED BY THE VFD, INCLUDING BUT NOT LIMITED TO; PROVIDING 12 OR 18 PULSE VFD'S, PROVIDING SERIES INDUCTORS, OR PROVIDING THE DIFFERENTIAL IN COST TO UPSIZE THE RESPECTIVE FEEDER.
21. THIS CONTRACTOR SHALL BE RESPONSIBLE AS PART OF THESE DOCUMENTS TO COORDINATE WITH ALL OTHER TRADES AND DISCIPLINES SUCH THAT ONLY ELEVATOR RELATED PIPING, CONDUIT OR DUCTWORK IS INSTALLED IN THE ELEVATOR HOISTWAY AND MACHINE ROOMS.
22. SUBSEQUENT TO THE SHORT TERM FRAME-SHORTENING ANTICIPATED TO OCCUR DURING THE INITIAL CONSTRUCTION PERIOD, ALL SYSTEMS SHALL BE INSTALLED WITH PROVISIONS TO ACCOMMODATE LONG TERM STRUCTURAL FRAME-SHORTENING EQUIVALENT TO 1/16" PER FLOOR IN ADDITION TO ANY EXPANSION AND/OR CONTRACTION WHICH THE SYSTEM WILL EXPERIENCE DUE TO THERMAL CHANGES OF THE SYSTEM. ANY ADJUSTMENTS TO HANGER TYPE, COLD SPRINGING OF PIPING, CONDUITS, ADJUSTMENTS TO BUS DUCT SPRING LENGTHS AND OVERALL BUS DUCT LENGTH SHALL BE INCORPORATED INTO THE INSTALLATION.
23. WHEREVER THERE IS A SMOKE DAMPER AND FIRE/SMOKE DAMPER, THERE SHALL BE AN ACCESS DOOR AND DUCT SMOKE DETECTOR WITH REMOTE LED INDICATOR (TYPICAL).
24. THE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2010 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE, CHAPTER 8 AND THE LATEST EDITION (2008) OF THE NYC BUILDING CODE.
25. ALL HEATING AND COOLING EQUIPMENT WITHIN THIS SCOPE OF WORK HAS BEEN SIZED IN ACCORDANCE WITH THE DESIGN LOADS STIPULATED IN ANSI/ASHRAE/ACCA STANDARD 183.

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 JULY, 2008)

HEATING VENTILATING AND AIR CONDITIONING MATERIALS, EQUIPMENT AND SYSTEMS SUBJECT TO SPECIAL INSPECTION:

SPECIAL INSPECTION	REQUIRED
A. MECHANICAL SYSTEMS PER BC1704.15; 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 1704.14 & BC 909:	
1. COVERED MALL.	□
2. ATRIUM.	■
3. STAGE & PLATFORM.	■
4. STAIR PRESSURIZATION.	■
C. FUEL-OIL STORAGE AND FUEL OIL PIPING SYSTEMS PER BC 1704.16 AS REGULATED BY MC 1308 OF THE NYC MECHANICAL CODE.	□
D. HIGH PRESSURE STEAM PIPING (WELDING) PER BC 1704.17 AS REGULATED BY MC 1210 OF THE NYC MECHANICAL CODE.	□
E. HEATING SYSTEMS PER BC 1704.23 AND TESTED IN ACCORDANCE WITH SECTION MC 1011 OF THE NYC MECHANICAL CODE.	■
F. CHIMNEYS PER BC 1704.24 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 1704.13 & BC 2702.	■
H. SEISMIC ISOLATION SYSTEMS PER 1707.7 & 1707.8.	■
I. ENERGY CODE COMPLIANCE INSPECTIONS PER BC 109.3.5	■
J. FINAL INSPECTION PER 28-116.2.4.2 AND BC 109.5 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.

PROFESSIONAL'S STATEMENT	BUILDING DEPARTMENT
TO THE BEST OF OUR KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE.	THIS PLAN IS APPROVED ONLY FOR THE 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.

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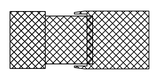

ISSUE		PRINTING	DATE
55	44	DOB AMENDMENT 6	06.30.2016
44	33	DOB AMENDMENT 5	04.08.2016
19		DOB AMENDMENT 3	09.16.2015
17		DOB AMENDMENT 02	09.03.2015
12	6	ADDENDUM #1	07.22.2015
10		100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

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PROJECT NUMBER
14073.N.000

TITLE

HVAC
GENERAL NOTES AND DRAWING INDEX

DRAWING NO.
M-001.02

B-SCAN NO.
M-001.01

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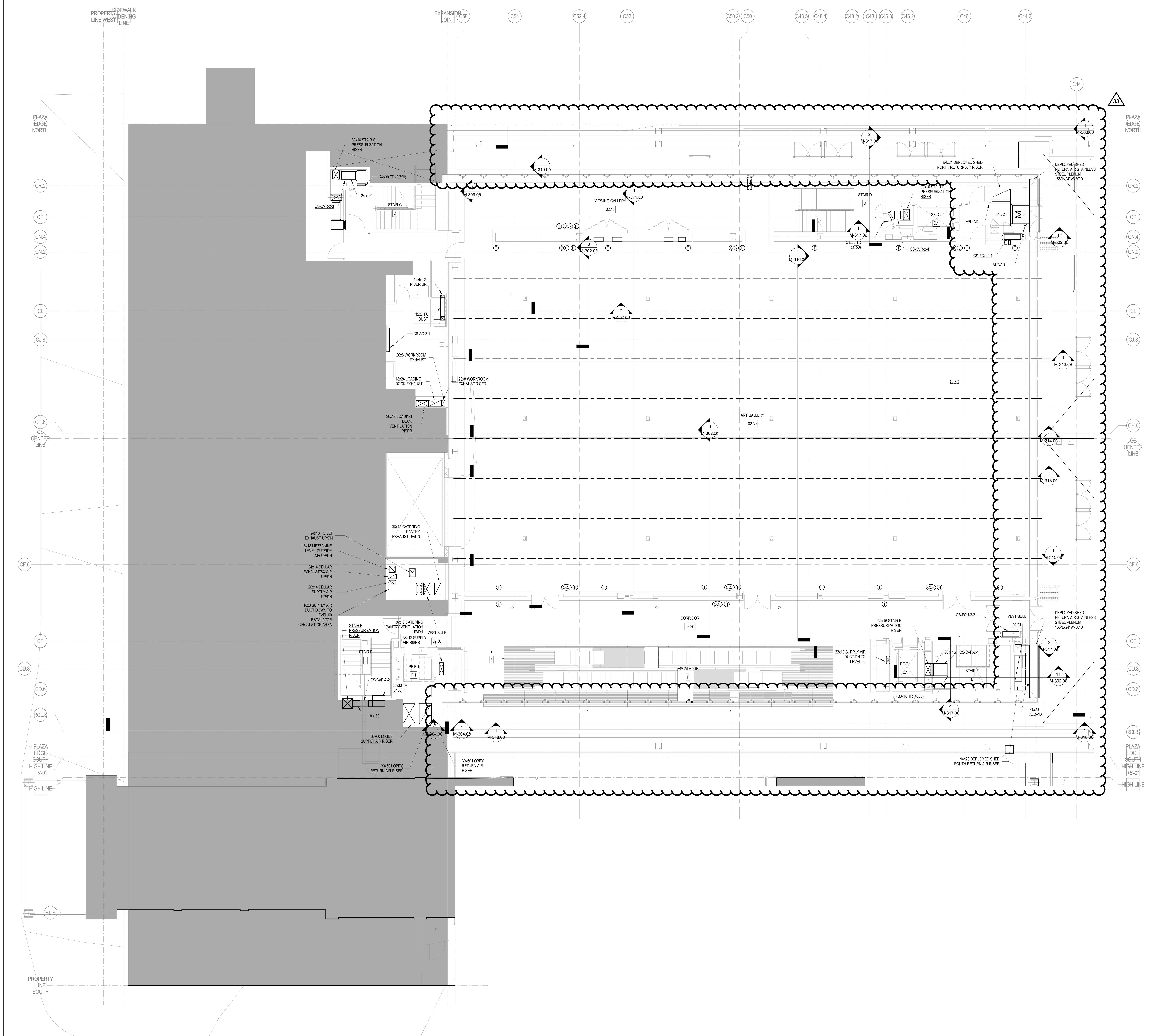

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NOTES

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APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

ES926801901 Scan Code

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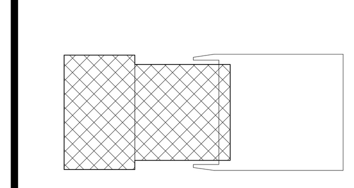

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PROJECT NUMBER
14073.M.000

TITLE

HVAC DUCTWORK PLAN FIXED BUILDING LEVEL 02

SCALE: 1/8" = 1'-0"

0 8 16 24

DRAWING NO.
M-102A.01

B-SCAN NO.
M-102.01

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E59745498795 Scan Code

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C52.4 C52 C50.2 C50 C48.5 C48.4 C48.2 C48 C46.3 C46.2 C46 C44.2 PJ C44 C38 C36 EXTENT OF DEPLOYED SHED AT GRADE

PROVIDE (2) 8'-0" LONG HEAVY DUTY COMMERCIAL ELECTRIC BASEBOARD HEATERS SIMILAR TO MODEL CBD 2007, 2000 WATTS AT 277V/1/60HZ WITH FACTORY MOUNTED THERMOSTAT AS MANUFACTURED BY Q-MARK. (REFER TO ARCHITECTURAL DRAWING A-580.00 & A-581.00 FOR ADDITIONAL DETAILS)

4.67 SQ FT MINIMUM CUSTOM SUPPLY AIR DUCT PLENUM WITH INSULATED METAL CLADDING (REFER TO ARCHITECTURAL DRAWINGS A-516.00, A-565.00 AND A-566.00 FOR ADDITIONAL DETAILS). PROVIDE 8'-0"H x 2'-0"W SIDEWALL SUPPLY AIR GRILLE DIRECTLY BEHIND ARCHITECTURAL GRILLE AT 5,800 CFM. REFER TO ARCHITECTURAL DRAWINGS A-564.00 & A-565.00 FOR DETAILS OF INSTALLATION. GRILLE SHALL BE DOUBLE DEFLECTION SIMILAR TO MODEL MODEL JFA AS MANUFACTURED BY TITUS. (TYPICAL FOR 1 DROP ALONG NORTH FACADE)

12 SQ FT MINIMUM CUSTOM RETURN AIR DUCT PLENUM WITH INSULATED METAL CLADDING (REFER TO ARCHITECTURAL DRAWINGS A-531.00 AND A-562.00 FOR ADDITIONAL DETAILS). PROVIDE A 36" WIDE x 144" HIGH RETURN AIR GRILLE, TYPE 50R-SS AS MANUFACTURED BY TITUS. TOP ELEVATION TO BE 20'-0" ABOVE FINISHED FLOOR (18,000)

PROVIDE (2) 8'-0" LONG HEAVY DUTY COMMERCIAL ELECTRIC BASEBOARD HEATERS SIMILAR TO MODEL CBD 2007, 2000 WATTS AT 277V/1/60HZ WITH FACTORY MOUNTED THERMOSTAT AS MANUFACTURED BY Q-MARK. (REFER TO ARCHITECTURAL DRAWING A-580.00 & A-581.00 FOR ADDITIONAL DETAILS)

PROVIDE (2) 8'-0" LONG HEAVY DUTY COMMERCIAL ELECTRIC BASEBOARD HEATERS SIMILAR TO MODEL CBD 2007, 2000 WATTS AT 277V/1/60HZ WITH FACTORY MOUNTED THERMOSTAT AS MANUFACTURED BY Q-MARK. (REFER TO ARCHITECTURAL DRAWING A-580.00 & A-581.00 FOR ADDITIONAL DETAILS)

PLAZA EDGE NORTH

P11 CP CN.4 CN.2 CL CJ.8 CH.6 CS CENTER LINE CF.6 CE.3 CE CD.8 CD.6 RCL.S

4.67 SQ FT MINIMUM CUSTOM SUPPLY AIR DUCT PLENUM WITH INSULATED METAL CLADDING (REFER TO ARCHITECTURAL DRAWINGS A-516.00, A-565.00 AND A-566.00 FOR ADDITIONAL DETAILS). PROVIDE 8'-0"H x 2'-0"W SIDEWALL SUPPLY AIR GRILLE DOUBLE DEFLECTION TYPE AT 5,400 CFM. REFER TO ARCHITECTURAL DRAWINGS A-564.00 & A-565.00 FOR DETAILS OF INSTALLATION. GRILLE SHALL BE DOUBLE DEFLECTION TYPE SIMILAR TO MODEL JFA AS MANUFACTURED BY TITUS. (TYPICAL FOR 3 DROPS ALONG NORTH FACADE)

PROVIDE (2) 4'-0" LONG HEAVY DUTY COMMERCIAL ELECTRIC BASEBOARD HEATERS SIMILAR TO MODEL CBD 1007, 1000 WATTS AT 277V/1/60HZ WITH FACTORY MOUNTED THERMOSTAT AS MANUFACTURED BY Q-MARK. (REFER TO ARCHITECTURAL DRAWING A-580.00 & A-581.00 FOR ADDITIONAL DETAILS)

PROVIDE (2) 4'-0" LONG HEAVY DUTY COMMERCIAL ELECTRIC BASEBOARD HEATERS SIMILAR TO MODEL CBD 1007, 1000 WATTS AT 277V/1/60HZ WITH FACTORY MOUNTED THERMOSTAT AS MANUFACTURED BY Q-MARK. (REFER TO ARCHITECTURAL DRAWING A-580.00 & A-581.00 FOR ADDITIONAL DETAILS)

PROVIDE (3) 8'-0" LONG HEAVY DUTY COMMERCIAL ELECTRIC BASEBOARD HEATER SIMILAR TO MODEL CBD 2007, 2000 WATTS AT 277V/1/60HZ WITH FACTORY MOUNTED THERMOSTAT AS MANUFACTURED BY Q-MARK. (REFER TO ARCHITECTURAL DRAWING A-580.00 & A-581.00 FOR ADDITIONAL DETAILS)

156 x 30 SHED RETURN AIR GRILLE WITHIN FACADE OF THE FIXED BUILDING (B.E. 10'-0" A.F.F) (12,000)

90 x 18 SHED SUPPLY AIR GRILLE WITHIN FACADE OF THE FIXED BUILDING (B.E. 20'-0" A.F.F.) (5,000)

GRILLES SHALL BE SIMILAR TO EXTERNAL WATERPROOF LOUVER MODEL RS-4600 AS MANUFACTURED BY CONSTRUCTION SPECIALITIES.

SHED GALLERY
02.31

PROVIDE (2) 8'-0" LONG HEAVY DUTY COMMERCIAL ELECTRIC BASEBOARD HEATERS SIMILAR TO MODEL CBD 2007, 2000 WATTS AT 277V/1/60HZ WITH FACTORY MOUNTED THERMOSTAT AS MANUFACTURED BY Q-MARK. (REFER TO ARCHITECTURAL DRAWING A-580.00 & A-581.00 FOR ADDITIONAL DETAILS)

PROVIDE (2) 8'-0" LONG HEAVY DUTY COMMERCIAL ELECTRIC BASEBOARD HEATERS SIMILAR TO MODEL CBD 2007, 2000 WATTS AT 277V/1/60HZ WITH FACTORY MOUNTED THERMOSTAT AS MANUFACTURED BY Q-MARK. (REFER TO ARCHITECTURAL DRAWING A-580.00 & A-581.00 FOR ADDITIONAL DETAILS)

PROVIDE 8'-0" LONG HEAVY DUTY COMMERCIAL ELECTRIC BASEBOARD HEATER SIMILAR TO MODEL CBD 2007, 2000 WATTS AT 277V/1/60HZ WITH FACTORY MOUNTED THERMOSTAT AS MANUFACTURED BY Q-MARK. (REFER TO ARCHITECTURAL DRAWING A-580.00 & A-581.00 FOR ADDITIONAL DETAILS)

PROVIDE 5'-0" LONG HEAVY DUTY COMMERCIAL ELECTRIC BASEBOARD HEATER SIMILAR TO MODEL CBD 1257, 1250 WATTS AT 277V/1/60HZ WITH FACTORY MOUNTED THERMOSTAT AS MANUFACTURED BY Q-MARK. (REFER TO ARCHITECTURAL DRAWING A-580.00 & A-581.00 FOR ADDITIONAL DETAILS)

PROVIDE (2) 8'-0" LONG HEAVY DUTY COMMERCIAL ELECTRIC BASEBOARD HEATERS SIMILAR TO MODEL CBD 2007, 2000 WATTS AT 277V/1/60HZ WITH FACTORY MOUNTED THERMOSTAT AS MANUFACTURED BY Q-MARK. (REFER TO ARCHITECTURAL DRAWING A-580.00 & A-581.00 FOR ADDITIONAL DETAILS)

PROVIDE (2) 8'-0" LONG HEAVY DUTY COMMERCIAL ELECTRIC BASEBOARD HEATERS SIMILAR TO MODEL CBD 2007, 2000 WATTS AT 277V/1/60HZ WITH FACTORY MOUNTED THERMOSTAT AS MANUFACTURED BY Q-MARK. (REFER TO ARCHITECTURAL DRAWING A-580.00 & A-581.00 FOR ADDITIONAL DETAILS)

PLAZA EDGE SOUTH

HIGH LINE +5'-0"

HIGH LINE

PROPERTY LINE SOUTH

HL.S

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PROVIDE (2) 8'-0" LONG HEAVY DUTY COMMERCIAL ELECTRIC BASEBOARD HEATERS SIMILAR TO MODEL CBD 2007, 2000 WATTS AT 277V/1/60HZ WITH FACTORY MOUNTED THERMOSTAT AS MANUFACTURED BY Q-MARK. (REFER TO ARCHITECTURAL DRAWING A-580.00 & A-581.00 FOR ADDITIONAL DETAILS)

C52.4 C52 C50.2 C50 C48.5 C48.4 C48.2 C48 C46.3 C46.2 C46 C44.2 C38 C36 EXTENT OF DEPLOYED SHED AT GRADE

NOTES:
1. AS PER SPECIFICATION SECTION 23373, PROVIDE FULL SCALE MOCK-UP OF ARCHITECTURAL SUPPLY AIR GRILLE ASSEMBLY WITH ARCHITECTURAL GRILLE. SUPPLY AIR GRILLE ASSEMBLY MOCK-UP SHALL BE SENT TO INDEPENDENT TESTING LAB TO DETERMINE THE EFFICACY OF AIRFLOW, THROW, AND ACOUSTICAL PERFORMANCE.

Damian Titus
APPROVED
DEPARTMENT OF BUILDINGS
ACTING COMMISSIONER

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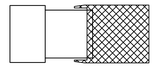

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TITLE
HVAC DUCTWORK PLAN PLAZA LEVEL 02

SCALE:

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B-SCAN NO.
M-103.00

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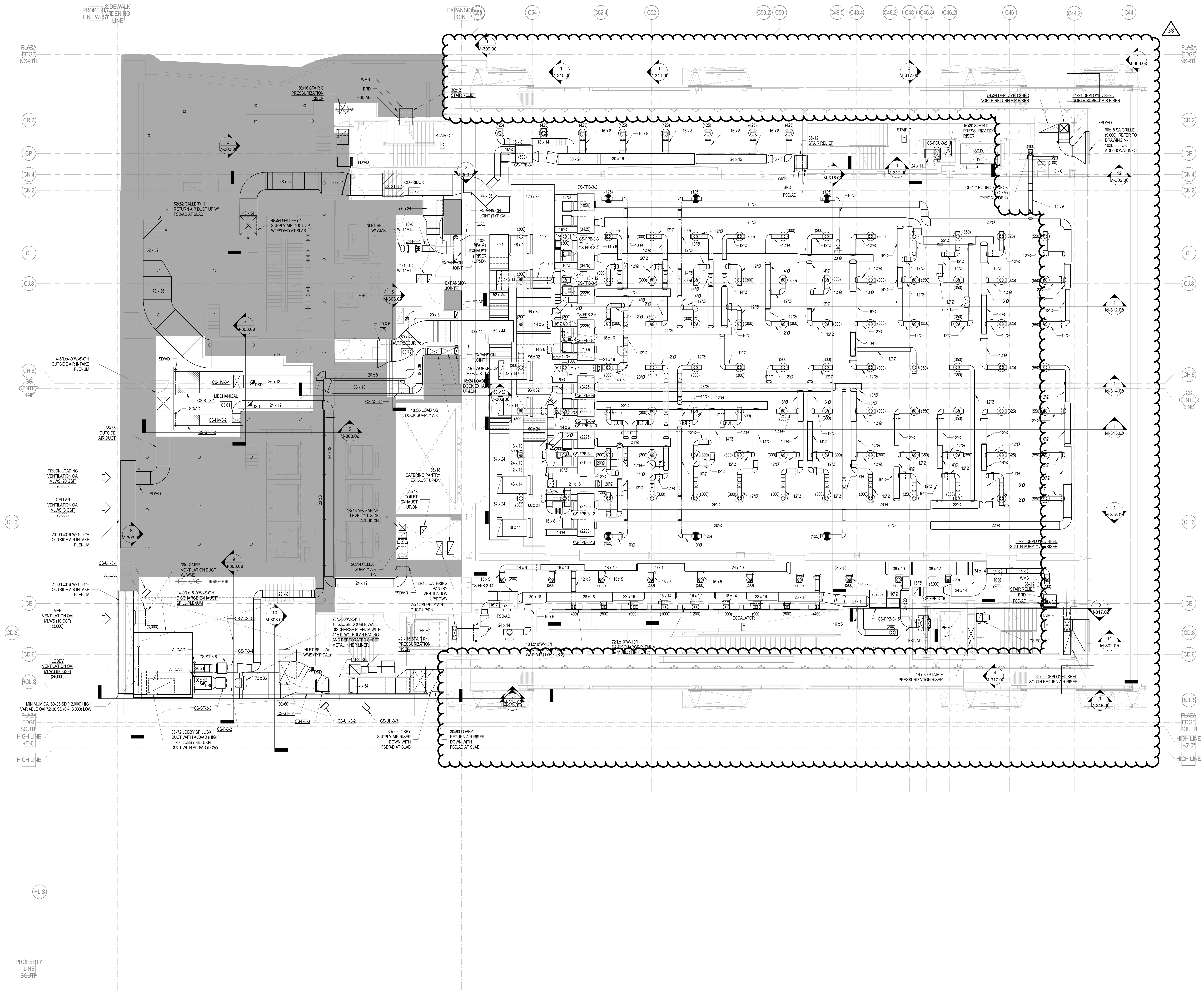

NOTES

1. ALL LOW-PRESSURE DUCTWORK DOWNSTREAM OF TERMINAL UNITS AND ROUND INLET TO TERMINAL UNITS SHALL BE PROVIDED WITH 1" ACOUTICAL LINING.

2. REFER TO ARCHITECTURAL DRAWINGS FOR ACOUSTICAL ENCLOSURE AROUND ENTIRE FAN POWERED BOX BAY. PROVIDE 75 SQUARE FEET OF TRANSFER DUCTS THAT CONNECT RA PLENUM TO FAN POWERED BOX.

3. PROVIDE SHEETMETAL DRIP PAN BELOW ENTIRE ROUTE OF HWS&R PIPING TO FAN POWERED BOXES WITH LEAK DETECTION. REFER TO DRAWING M-203.00 FOR EXTENT OF PIPING.

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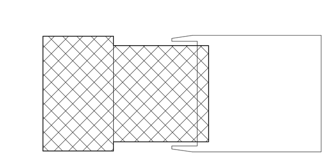
KEY PLAN



ISSUE △		PRINTING	DATE
44	33	DOB AMENDMENT 5	04.08.2016
19		DOB AMENDMENT 3	09.16.2015
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AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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PROJECT NUMBER
14073.M.000

TITLE

HVAC DUCTWORK PLAN FIXED BUILDING LEVEL 03

SCALE: 1/8" = 1'-0"

0 8 16 24

DRAWING NO.
M-103.01

B-SCAN NO.

M-104.01

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DEPT OF BLDGS 421302297 Job Number
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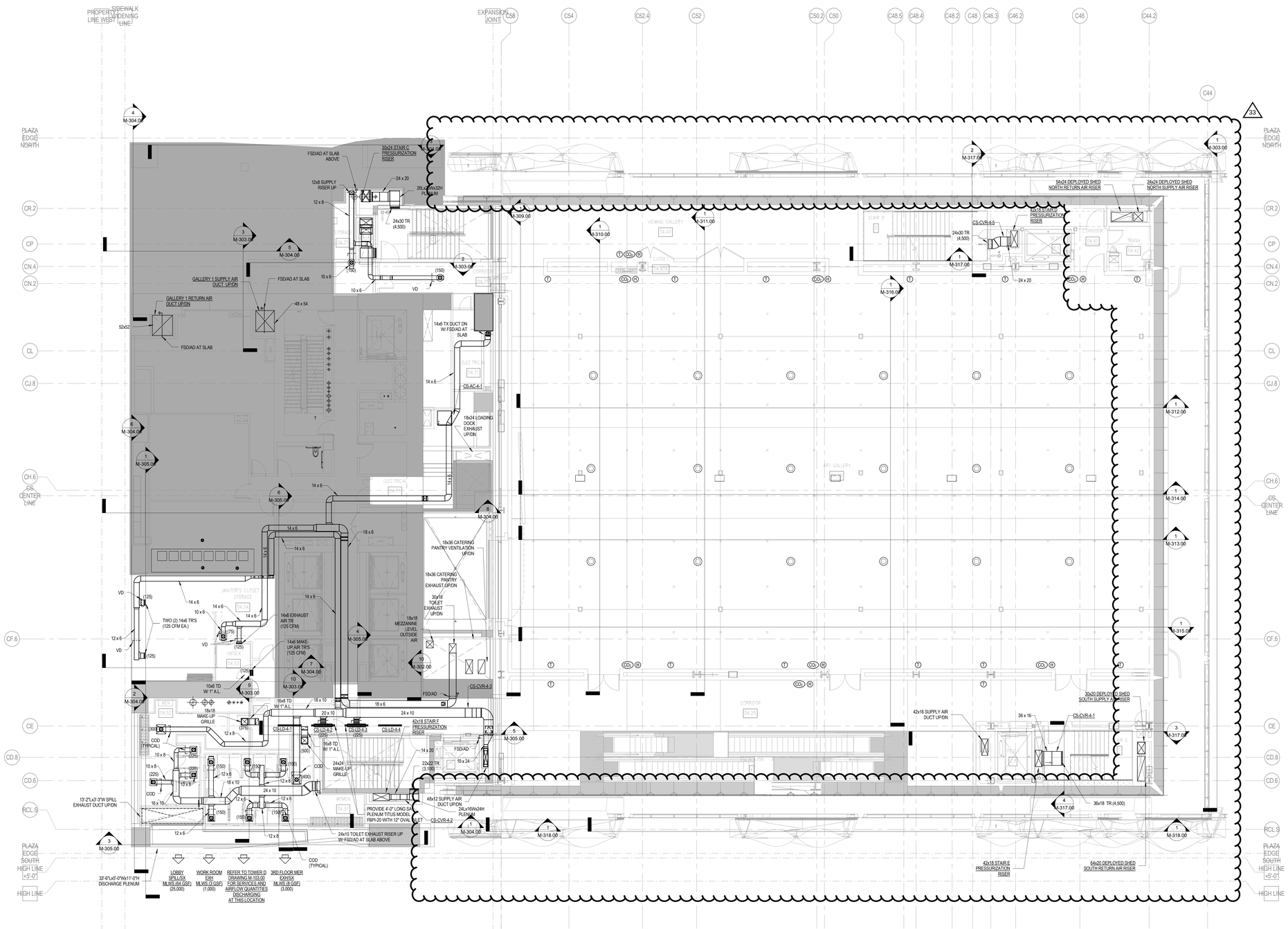

NOTES

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AMENDED APPLICATION
Date: 07/15/2015
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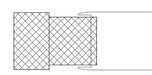
KEY PLAN



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PROJECT NUMBER
14073.M.000

TITLE

HVAC DUCTWORK PLAN FIXED BUILDING LEVEL 04

SCALE: 1/8" = 1'-0"

0 8 16 24

DRAWING NO.
M-104.01

B-SCAN NO.
M-105.01

9 of 89

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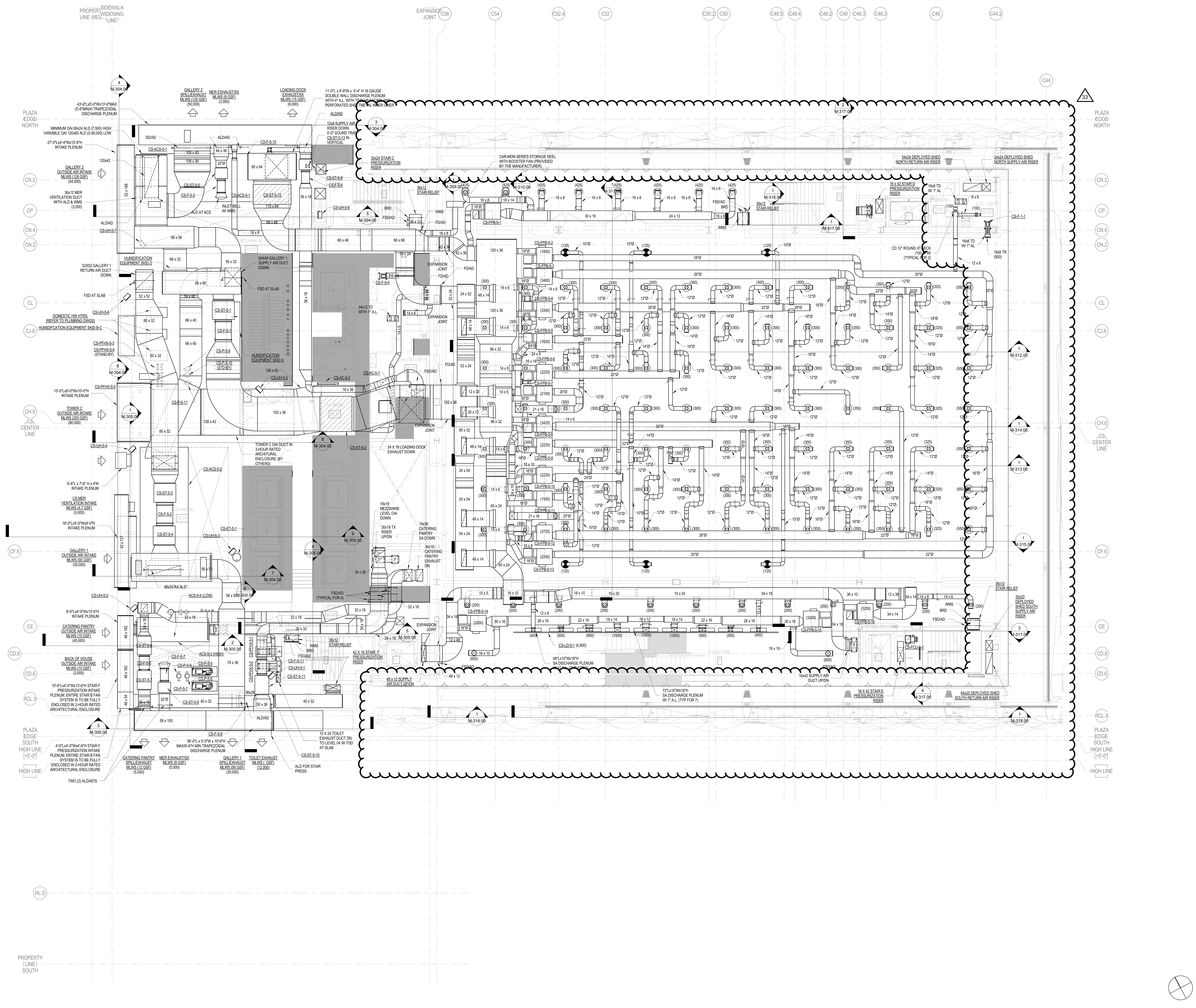

NOTES

1. ALL LOW-PRESSURE DUCTWORK DOWNSTREAM OF TERMINAL UNITS AND ROUND INLET TO TERMINAL UNITS SHALL BE PROVIDED WITH 1" ACOUTICAL LINING.

2. REFER TO ARCHITECTURAL DRAWINGS FOR ACOUSTICAL ENCLOSURE AROUND ENTIRE FAN POWERED BOX BAY. PROVIDE 75 SQUARE FEET OF TRANSFER DUCTS THAT CONNECT RA PLENUM TO FAN POWERED BOX.

3. PROVIDE SHEETMETAL DRIP PAN BELOW ENTIRE ROUTE OF HWS&R PIPING TO FAN POWERED BOXES WITH LEAK DETECTION. REFER TO DRAWING M-205.00 FOR EXTENT OF PIPING.

4. HUMIDIFICATION EQUIPMENT SKIDS WILL BE AS FOLLOWS:
A. HUMIDIFICATION PRETREATMENT SKID (17'L x 4'D x 6'H)
B. HUMIDIFICATION R.O. STORAGE (211 GALLONS) (~48" DIAMETER)
C. HUMIDIFICATION R.O. PUMP & FILTER SKID (~5'L x 4'W x 6'-6"H)
D. HUMIDIIFICATION PUMP & CONTROLLER SKID (~8'L x 3'W x 5'H)

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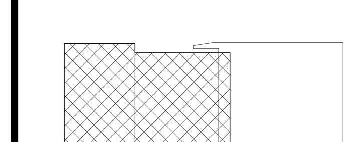

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Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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PROJECT NUMBER
14073.M.000

TITLE
HVAC DUCTWORK PLAN FIXED BUILDING LEVEL 05

SCALE: 1/8" = 1'-0"
0 8 16 24

DRAWING NO.
M-105.01

B-SCAN NO.
M-106.01

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ES796065785 Scan Code

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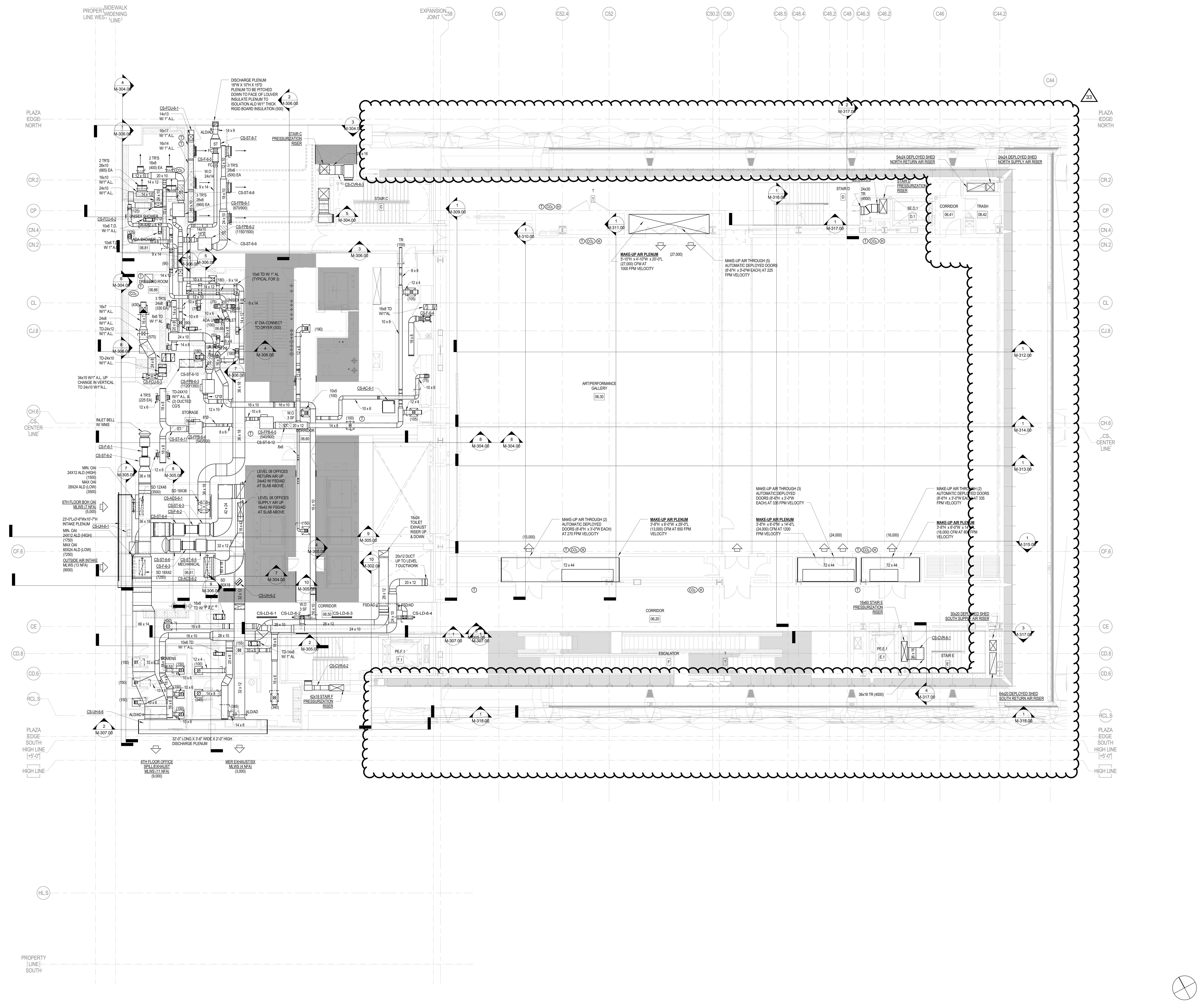

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AMENDED APPLICATION
Date: 07/15/2016
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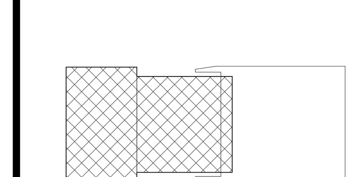

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PROJECT NUMBER
14073.M.000

TITLE

HVAC DUCTWORK PLAN FIXED BUILDING LEVEL 06

SCALE: 1/8" = 1'-0"

0 8 16 24

DRAWING NO.
M-106.01

B-SCAN NO.

M-107.01

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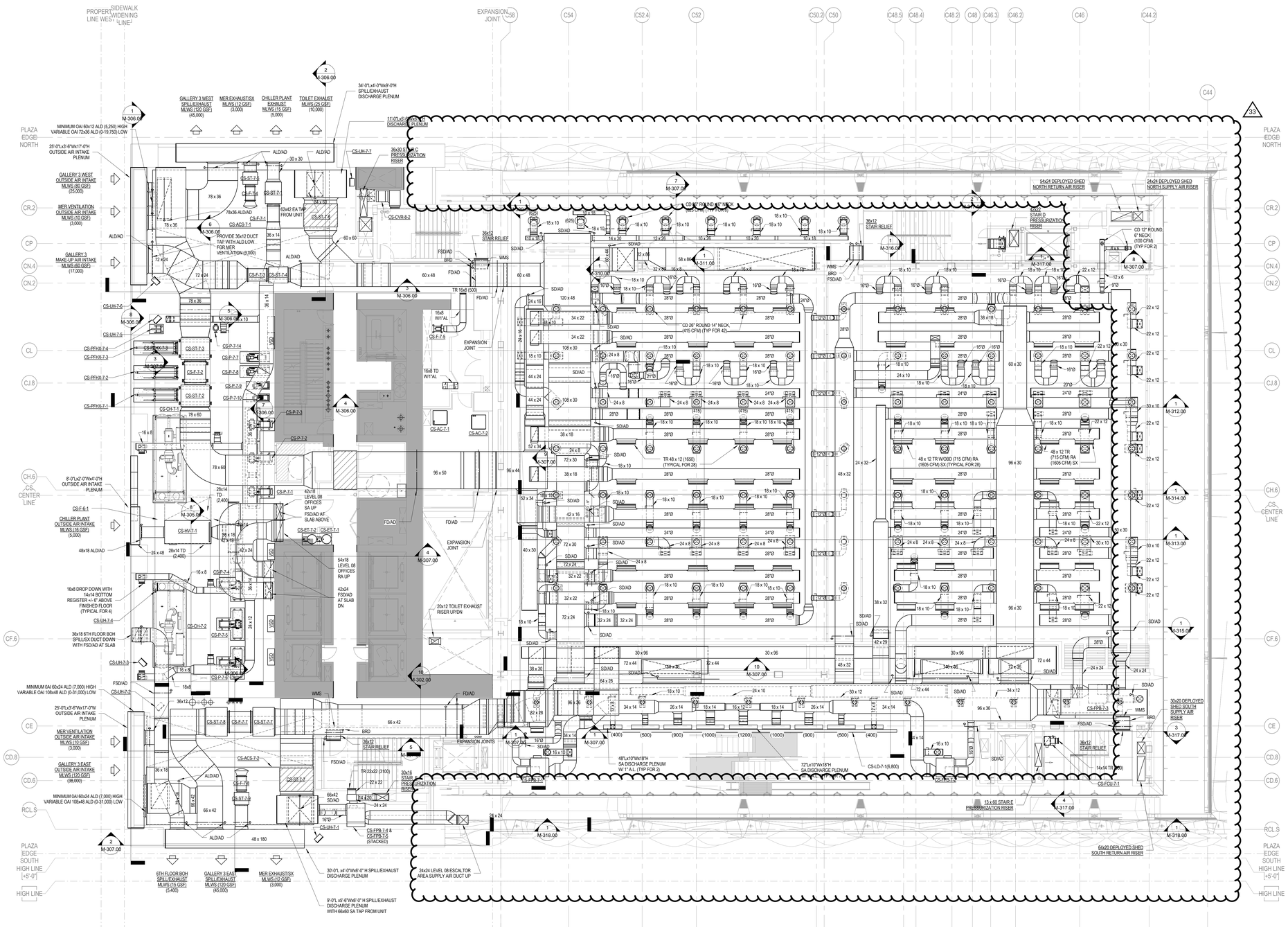

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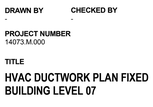

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PROJECT NUMBER
14073.M.000

TITLE

HVAC DUCTWORK PLAN FIXED BUILDING LEVEL 07

SCALE: 1/8" = 1'-0"

0 8 16 24

DRAWING NO.
M-107.01

B-SCAN NO.
M-108.01

12 of 89

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Damian Titus
BuildingPRO
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
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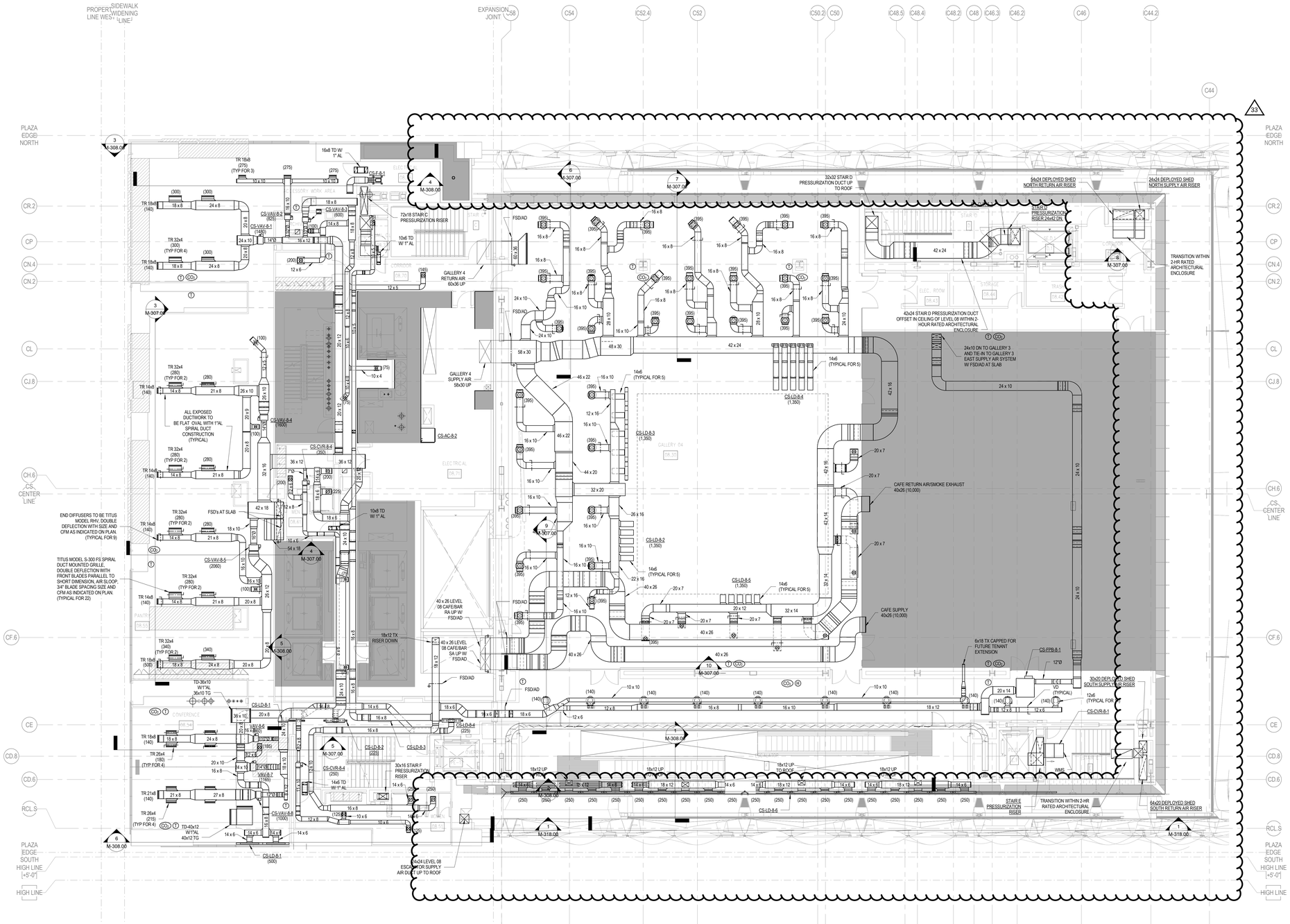
DEPT OF BLDGS 421303297 Job Number
E597128364 Scan Code



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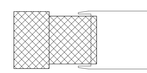
KEY PLAN



ISSUE		PRINTING	DATE
44	33	DOB AMENDMENT 5	04.08.2016
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9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

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PROJECT NUMBER
14073.M.000

TITLE
HVAC DUCTWORK PLAN FIXED BUILDING LEVEL 08

SCALE: 1/8" = 1'-0"
0 8 16 24

DRAWING NO.
M-108.01

B-SCAN NO.
M-109.01

13 of 89

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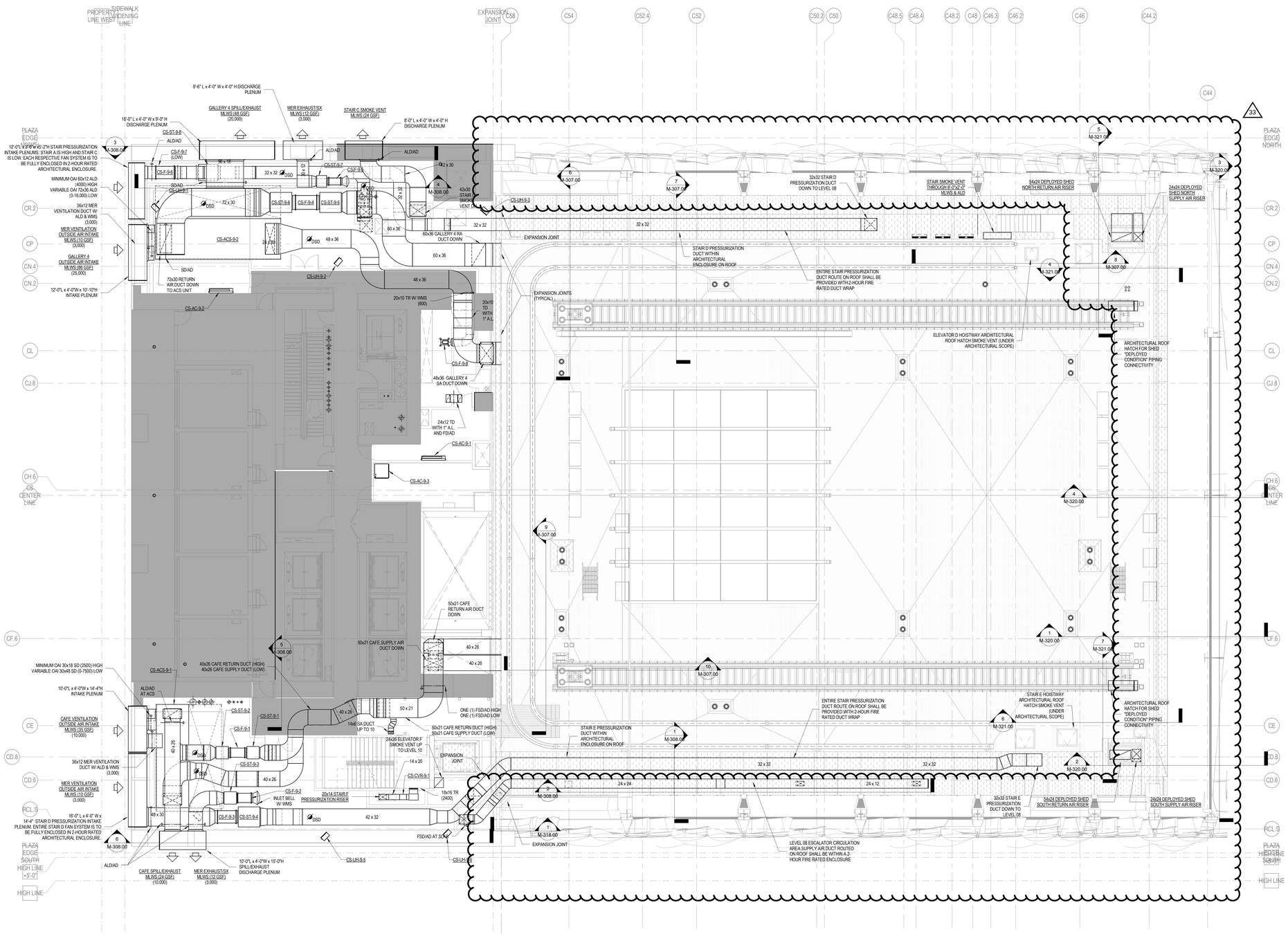
DEPT OF BLDGS 421302297 Job Number
E57.00M97 Scan Code



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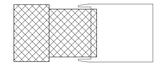

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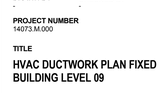

DRAWN BY -
CHECKED BY -

PROJECT NUMBER
14073.M.000

TITLE

HVAC DUCTWORK PLAN FIXED BUILDING LEVEL 09

SCALE: 1/8" = 1'-0"

0 8 16 24

DRAWING NO.
M-109.010

B-SCAN NO.

M-110.01

14 of 89

PROFESSIONAL'S STATEMENT	BUILDING DEPARTMENT NOTE
TO THE BEST OF OUR KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE.	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.

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDMENT APPLICATION
Date: 07/15/2016
NYC Development Hub

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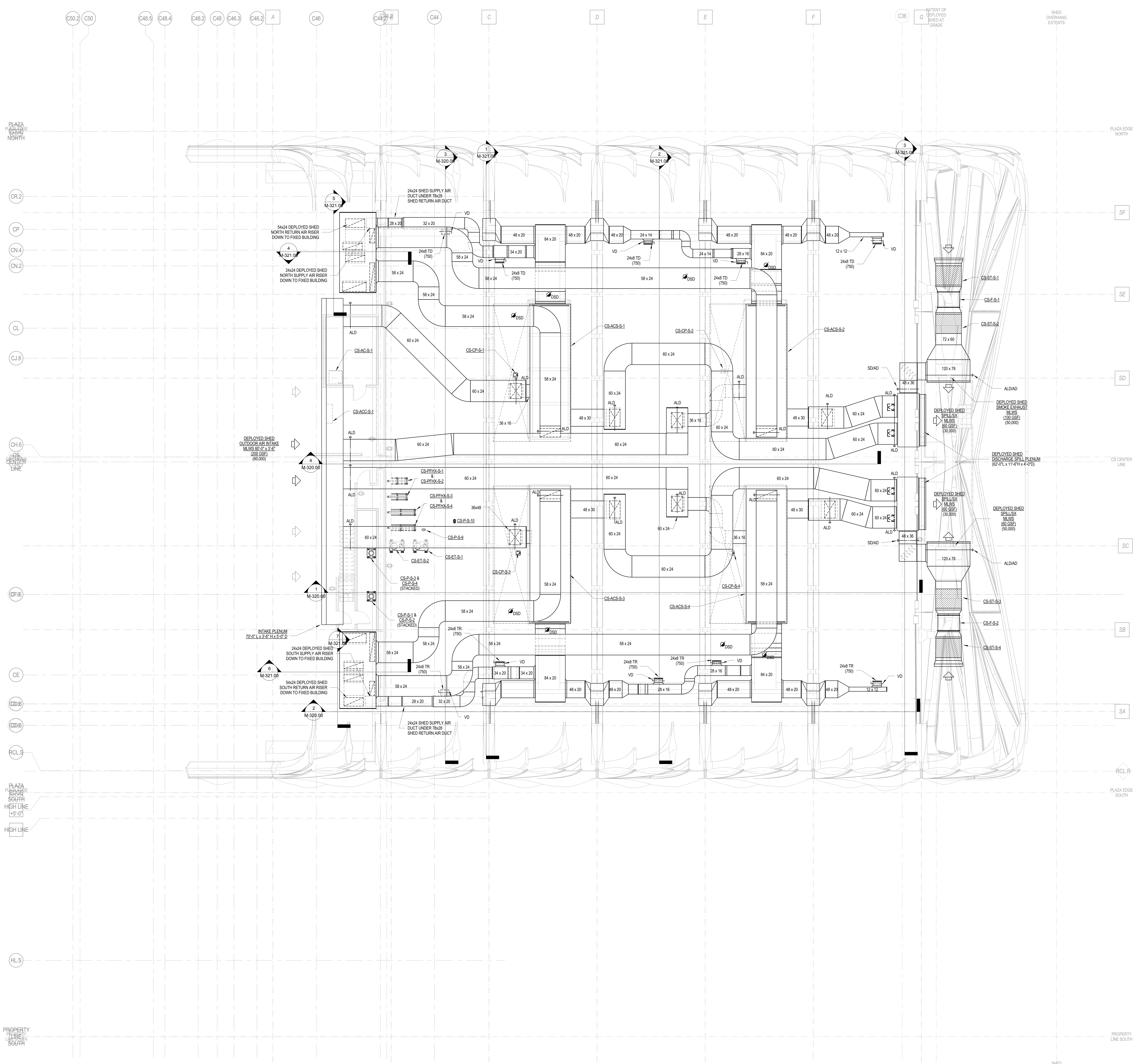

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NOTES

1. ALL RETURN, SPILL AND OUTSIDE AIR HORIZONTAL DUCTWORK DISTRIBUTION TO BE ROUTED WITHIN SHED ROOF ASSEMBLY. REFER TO SECTION SHEET M-309.00 FOR MORE DETAIL.

Damian Titus
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

ES575552394 Scan Code

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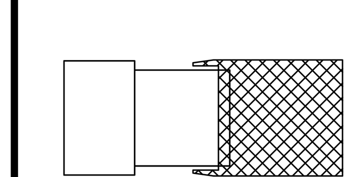

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PROJECT NUMBER
14073.M.000

TITLE

HVAC DUCTWORK PLAN DEPLOYED SHED MECHANICAL LEVEL

SCALE: 1/8" = 1'-0"

0 8 16 24

DRAWING NO.
M-109B.00

B-SCAN NO.

M-111.00

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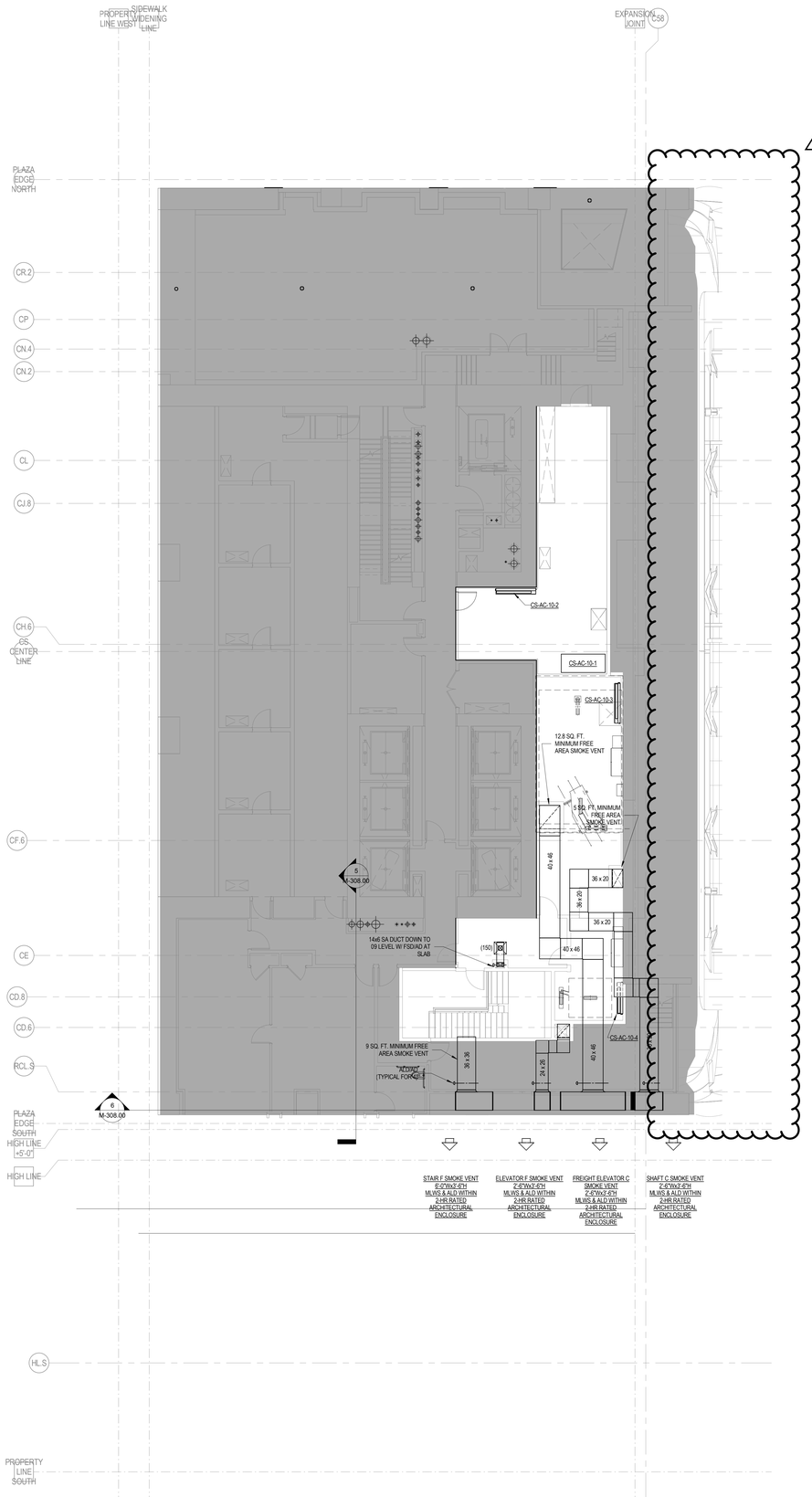

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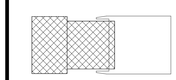

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PROJECT NUMBER
14073.M.000

TITLE

HVAC DUCTWORK PLAN FIXED BUILDING LEVEL 10

SCALE: 1/8" = 1'-0"

0 8 16 24

DRAWING NO.
M-110.01

B-SCAN NO.

M-112.01

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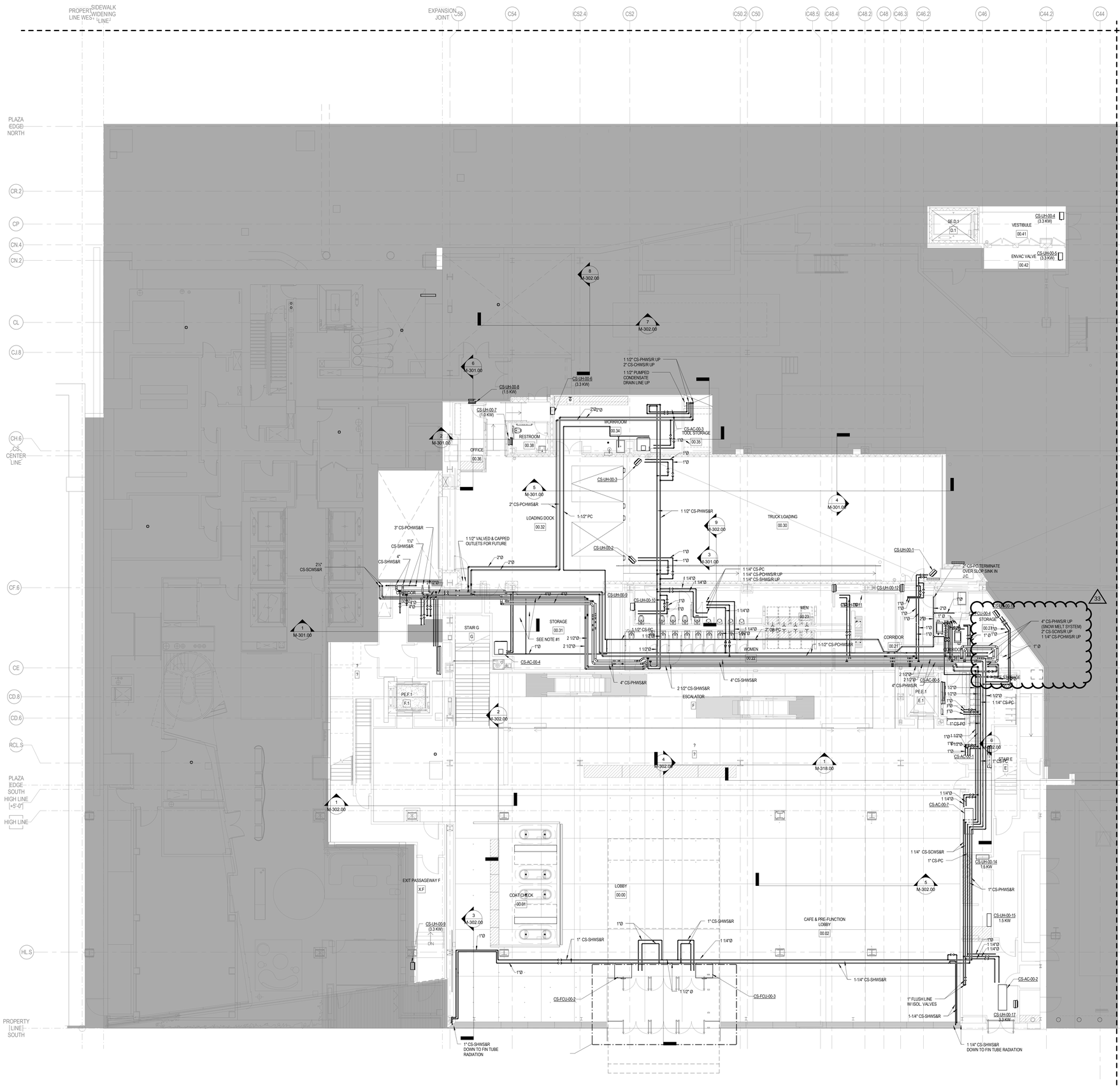
Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DEPT OF BLDGS 421303297 Job Number
ES7A3A73296 Scan Code



NOTES

1. PROVIDE SHEETMETAL DRIP PAN BELOW ENTIRE ROUTE OF PIPING, WITH LEAK DETECTION, AS IT PASSES OVER THE STORAGE 00.31 SPACE.

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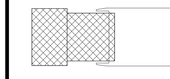

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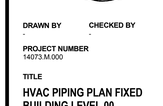

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PROJECT NUMBER
14073.M.000

TITLE

HVAC PIPING PLAN FIXED BUILDING LEVEL 00

SCALE: 1/8" = 1'-0"

0 8 16 24

DRAWING NO.
M-200.01

B-SCAN NO.
M-200.01

20 of 89

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Damian Titus
DOB Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/01/2015
NYC Development Hub

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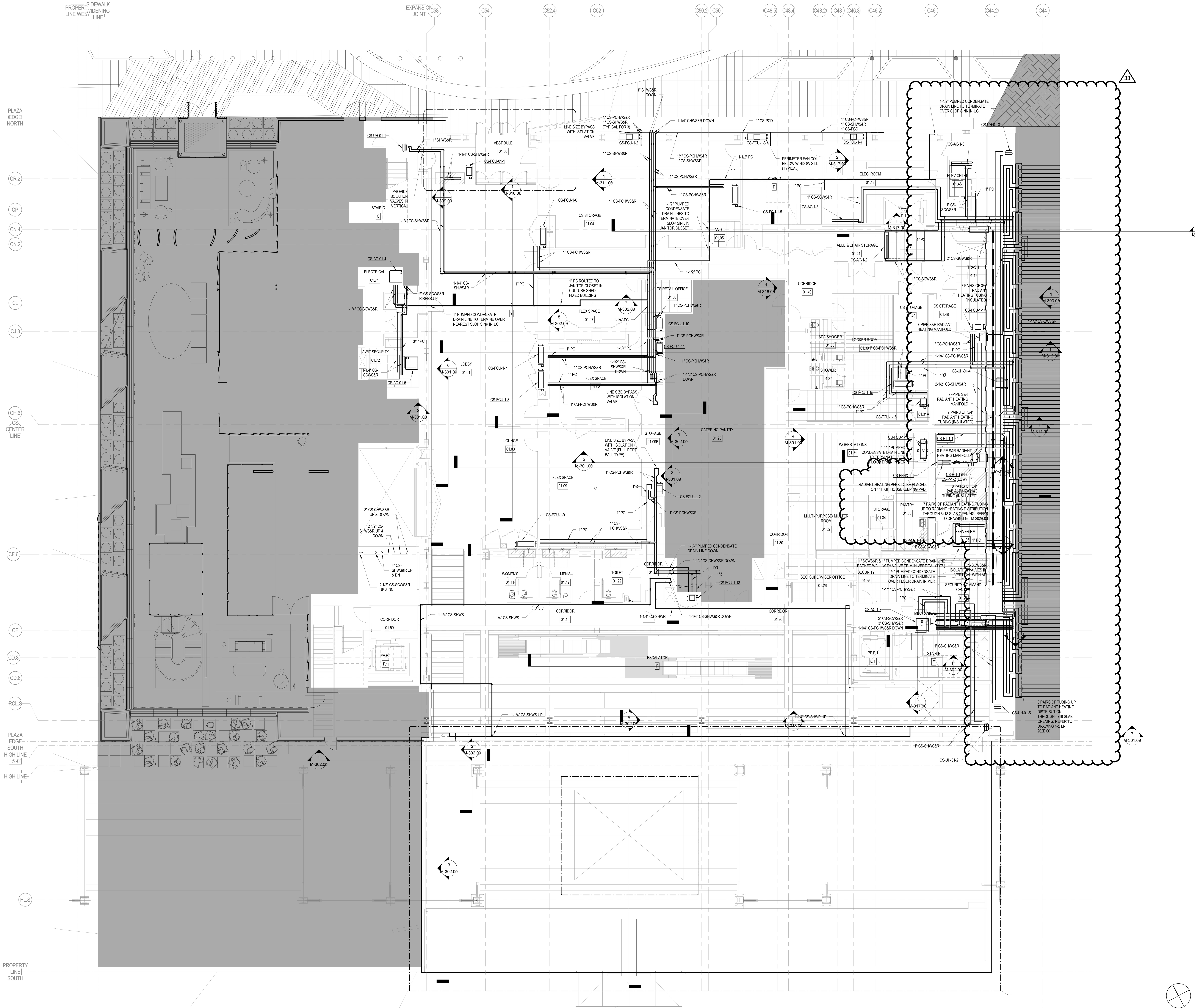

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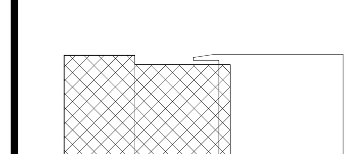
KEY PLAN



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44	33	DOB AMENDMENT 5	04.08.2016
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PROJECT NUMBER
14073.M.000

TITLE

HVAC PIPING PLAN FIXED BUILDING LEVEL 01

SCALE: 1/8" = 1'-0"
0 8 16 24

DRAWING NO.
M-201.01

B-SCAN NO.

M-201.01

21 of 89

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Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

PROFESSIONAL'S STATEMENT	BUILDING DEPARTMENT NOTE
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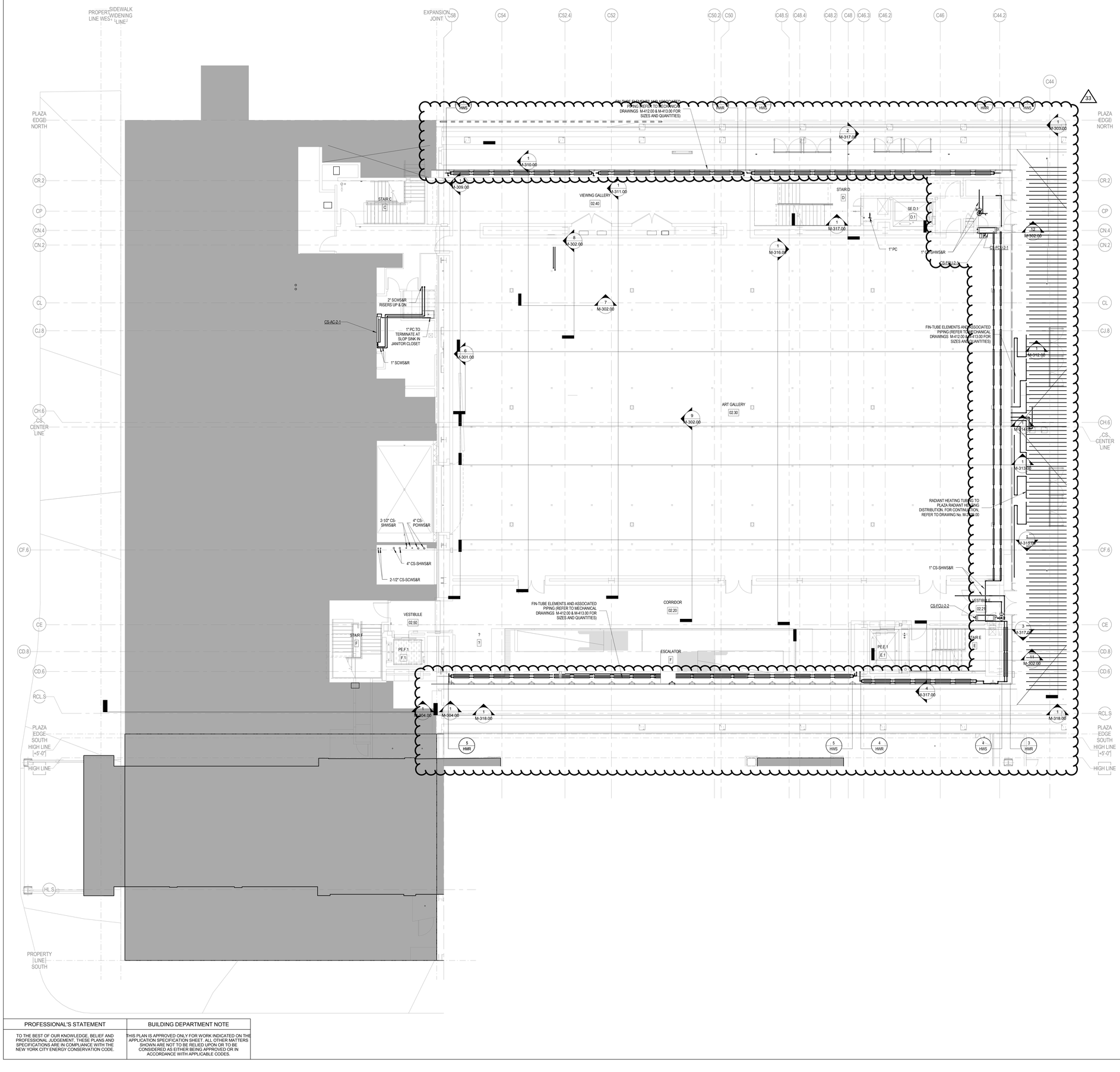

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Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/13/2016
NYC Development Hub

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PROJECT NUMBER
14073.M.000

TITLE

HVAC PIPING PLAN FIXED BUILDING LEVEL 02

SCALE: 1/8" = 1'-0"

0 8 16 24

DRAWING NO.
M-202A.01

B-SCAN NO.

M-202.01

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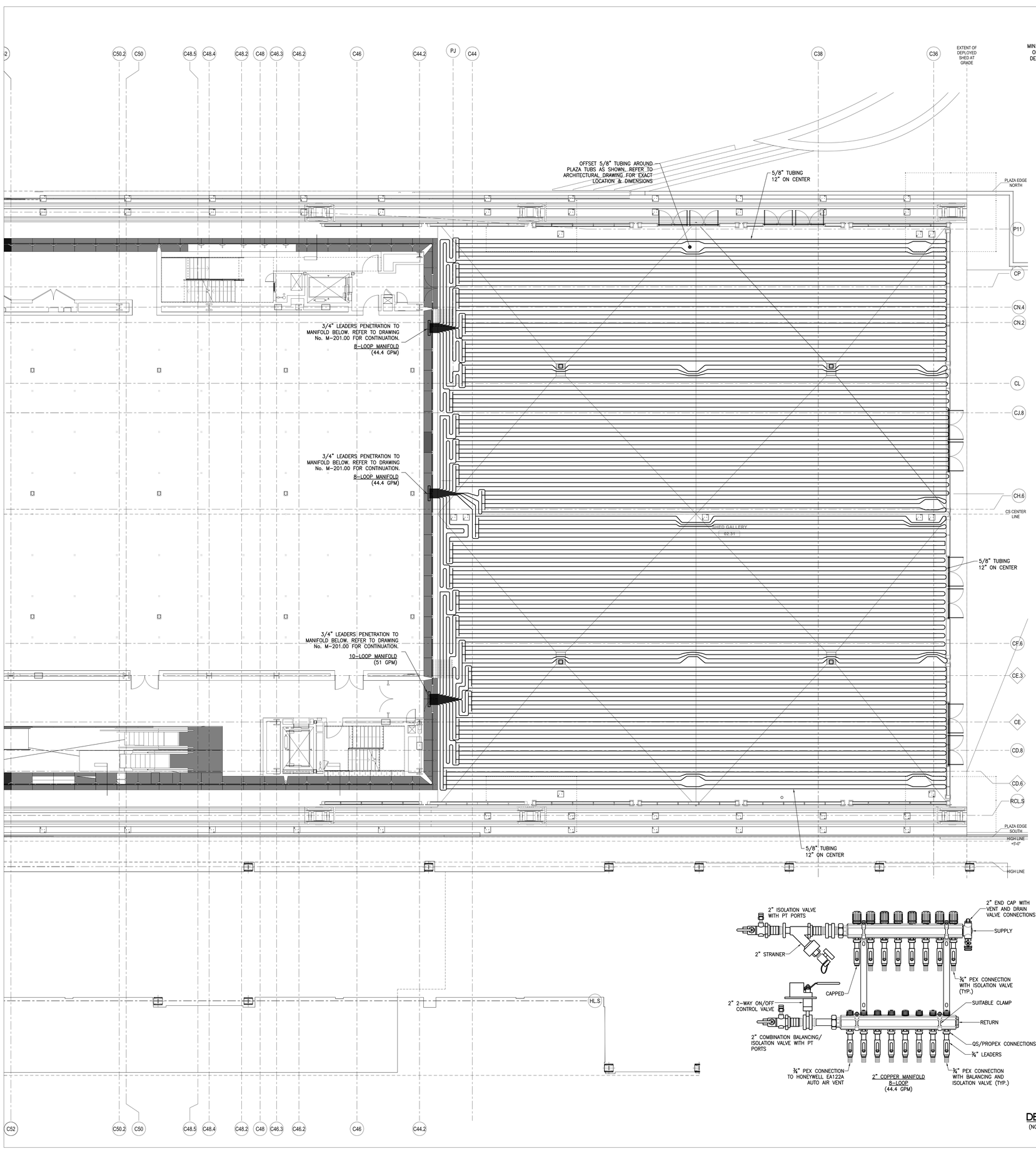

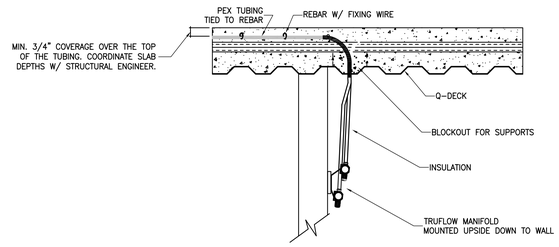

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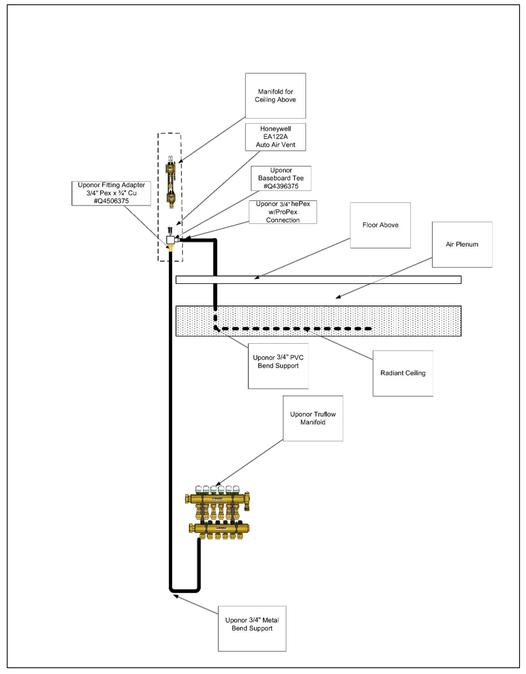

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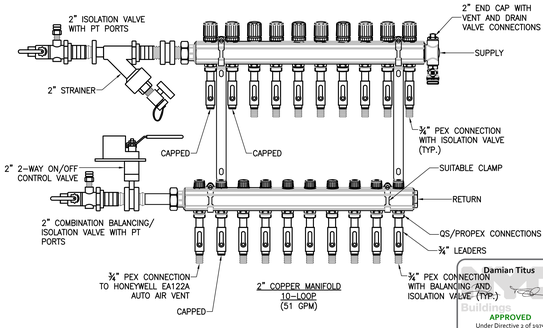

DETAIL 'C'
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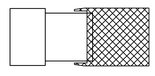

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		PRELIMINARY DOB SUBMISSION	12.10.2014

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PROJECT NUMBER
14073.N.000

TITLE
HVAC PIPING PLAN PLAZA SUBSURFACE LEVEL 02

SCALE:

0 8 16 24

DRAWING NO.
M-202B.00

B-SCAN NO.
M-203.00

23 of 89

Damian Titus
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Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
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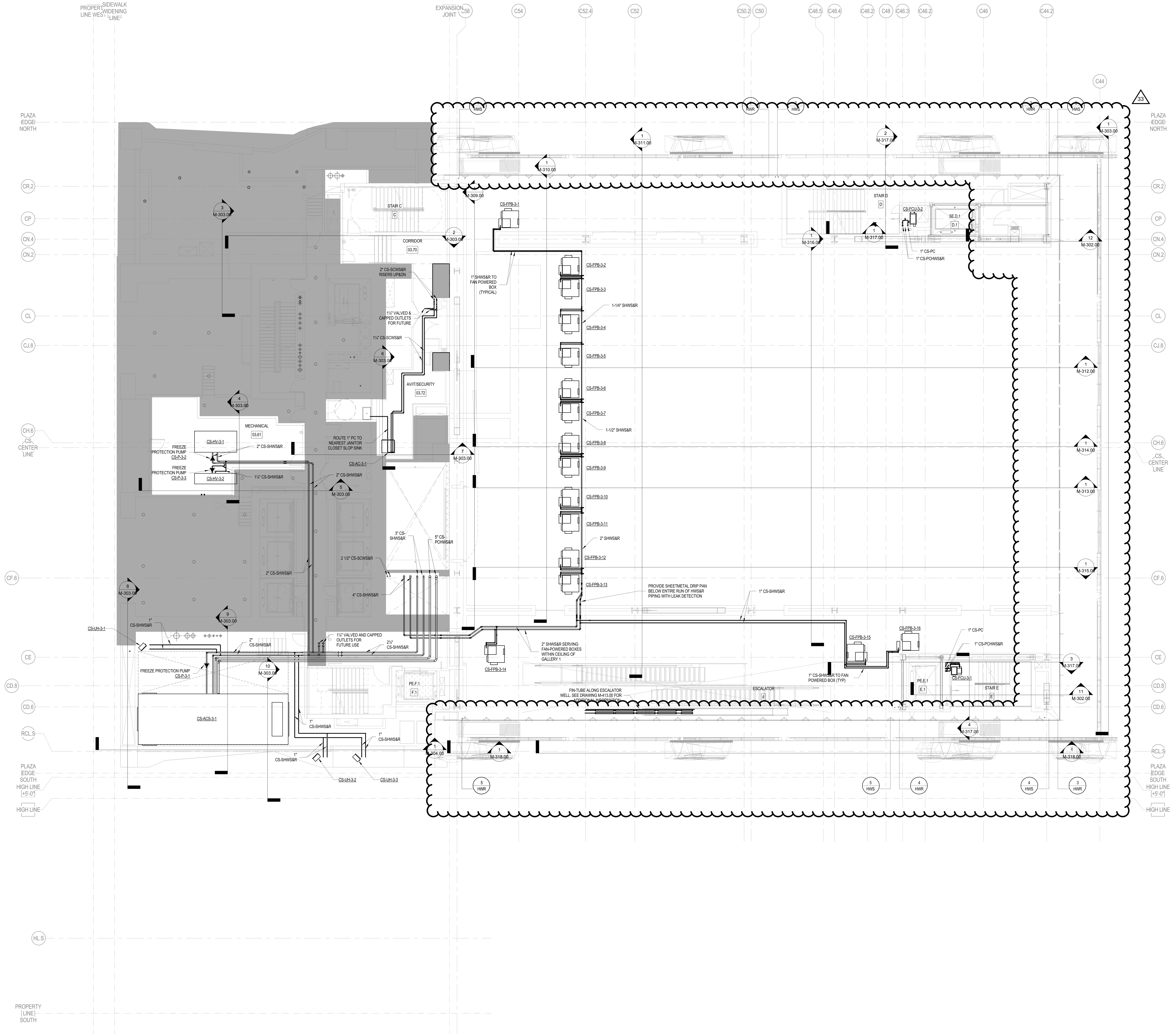

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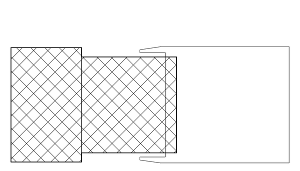

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Buildings
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Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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PROJECT NUMBER
14073.M.000

TITLE
HVAC PIPING PLAN FIXED BUILDING LEVEL 03

SCALE: 1/8" = 1'-0"
0 8 16 24

DRAWING NO.
M-203.01

B-SCAN NO.
M-204.01

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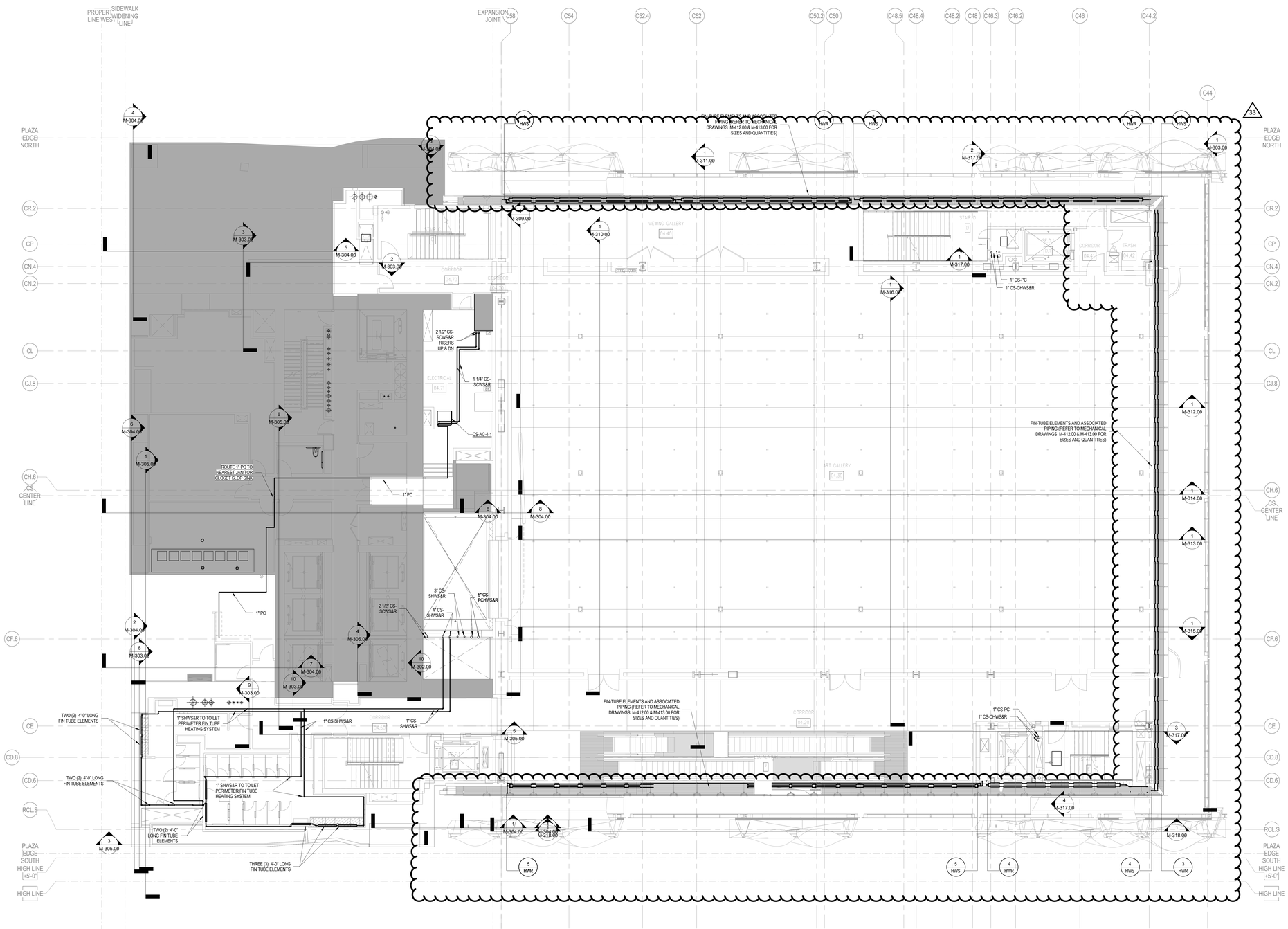

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PROJECT NUMBER
14073.M.000

TITLE
HVAC PIPING PLAN FIXED BUILDING LEVEL 04

SCALE: 1/8" = 1'-0"

0 8 16 24

DRAWING NO.
M-204.01

B-SCAN NO.
M-205.01

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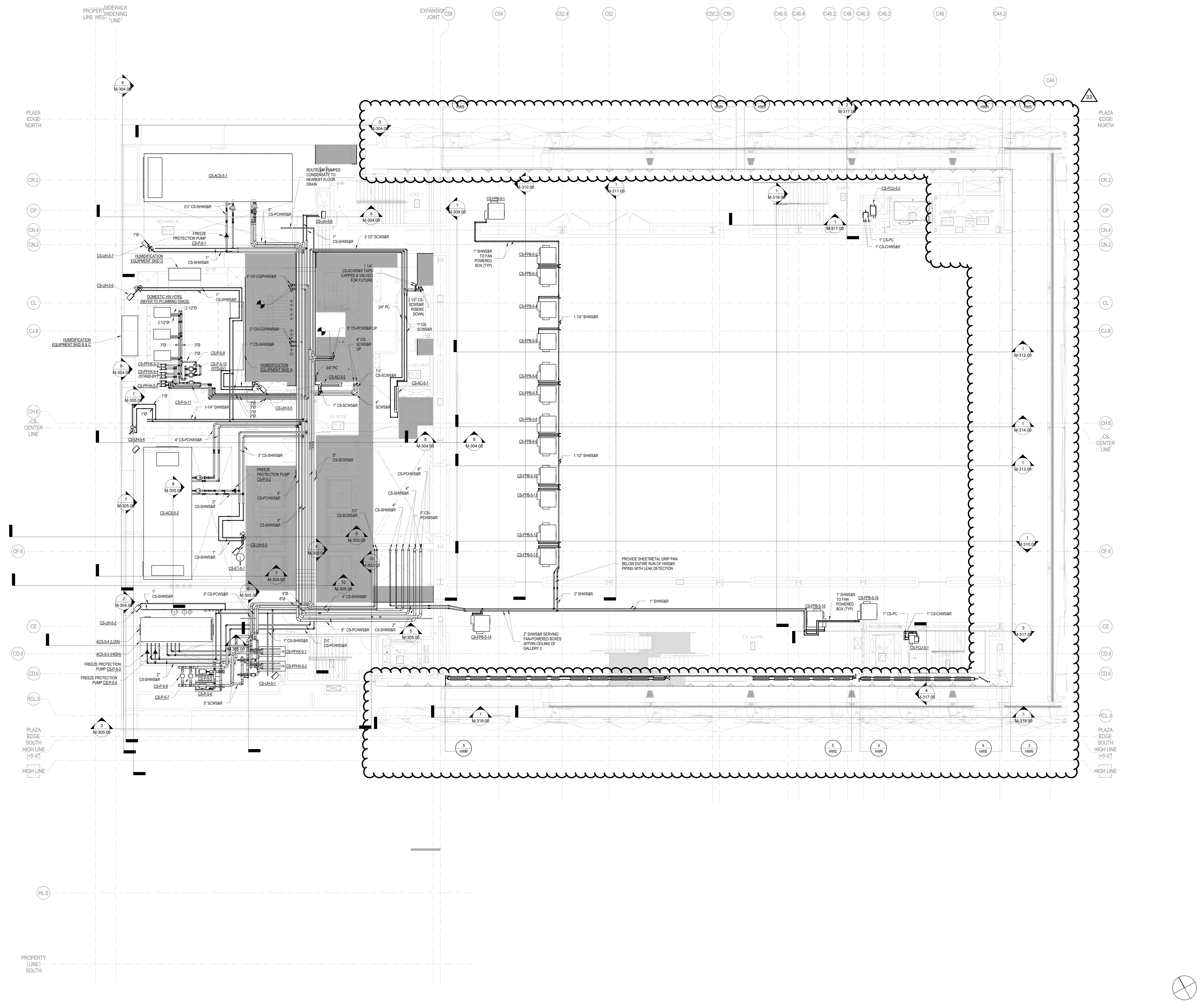

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NOTES

1. **HUMIDIFICATION EQUIPMENT SKIDS SHALL BE AS FOLLOWS:**

A. HUMIDIFICATION PRETREATMENT SKID (17'L x 4'D x 6'H).
B. HUMIDIFICATION R.O. STORAGE (211 GALLONS) (~48" DIAMETER).
C. HUMIDIFICATION R.O. PUMP & FILTER SKID (~5'L x 4'W x 6'-6"H).
D. HUMIDIFICATION PUMP & CONTROLLER SKID (~8'L x 3'W x 5'H).

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6		PRELIMINARY DOB SUBMISSION	12.10.2014

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AMENDED APPLICATION
Date: 07/15/2016
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PROJECT NUMBER
14073.M.000

TITLE
HVAC PIPING PLAN FIXED BUILDING LEVEL 05

SCALE: 1/8" = 1'-0"
0 8 16 24

DRAWING NO.
M-205.01

B-SCAN NO.
M-206.01

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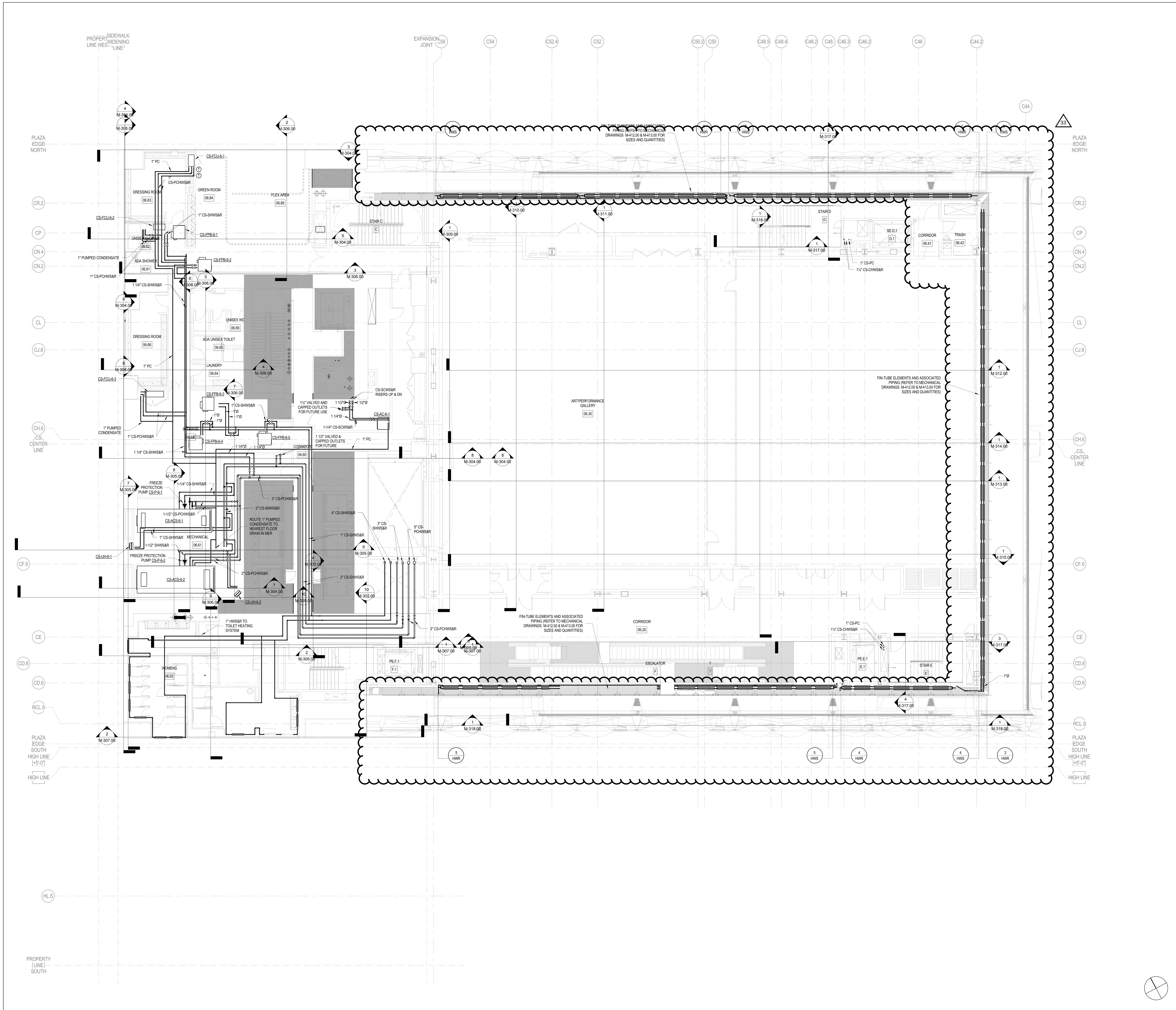

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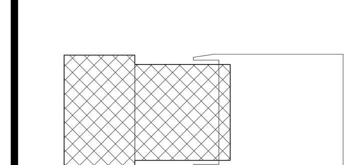

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PROJECT NUMBER
14073.M.000

TITLE
HVAC PIPING PLAN FIXED BUILDING LEVEL 06

SCALE: 1/8" = 1'-0"
0 8 16 24

DRAWING NO.
M-206.01

B-SCAN NO.
M-207.01

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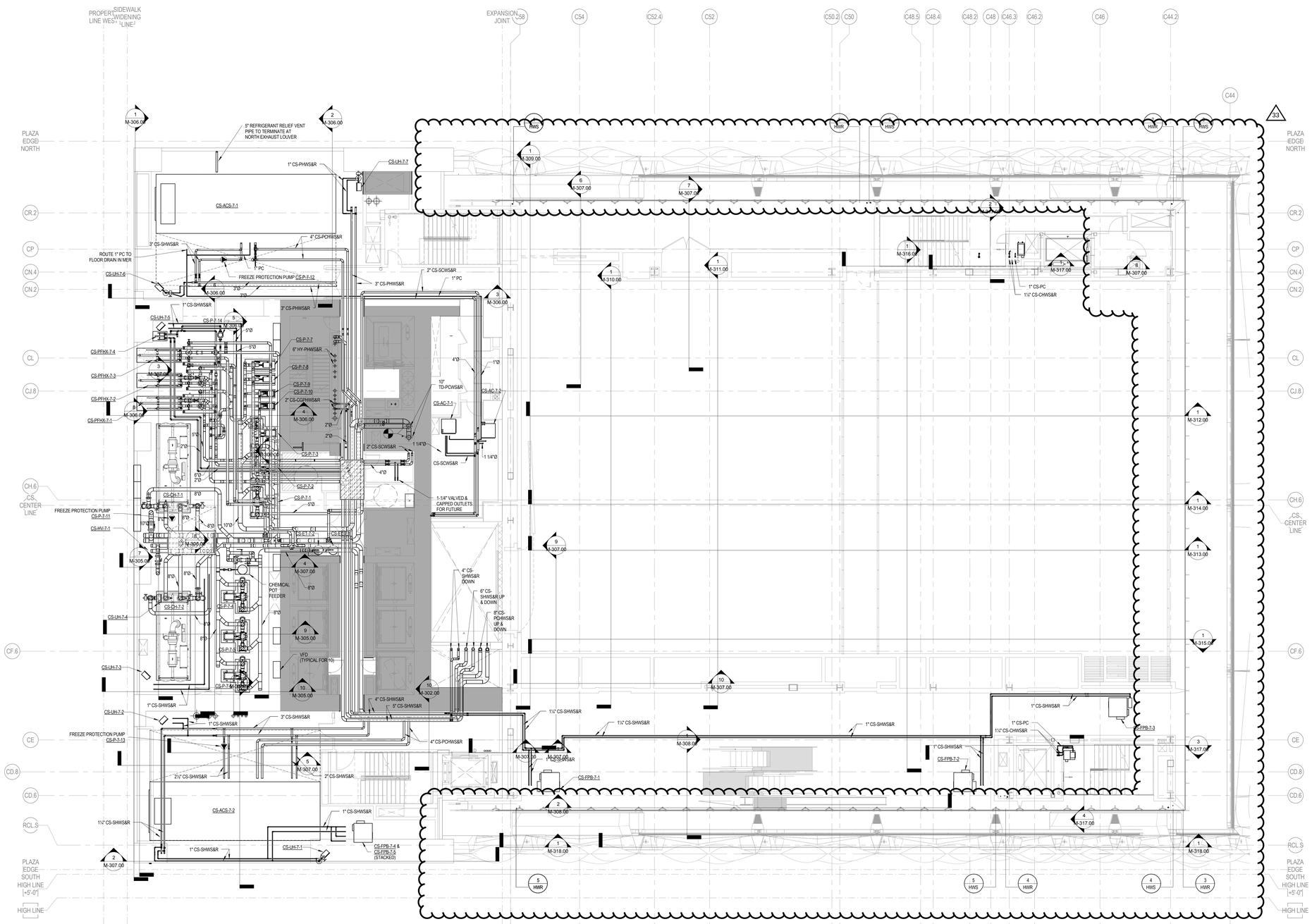

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TITLE

HVAC PIPING PLAN FIXED BUILDING LEVEL 07

SCALE: 1/8" = 1'-0"

0 8 16 24

DRAWING NO.
M-207.01

B-SCAN NO.
M-208.01

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Date: 07/15/2016
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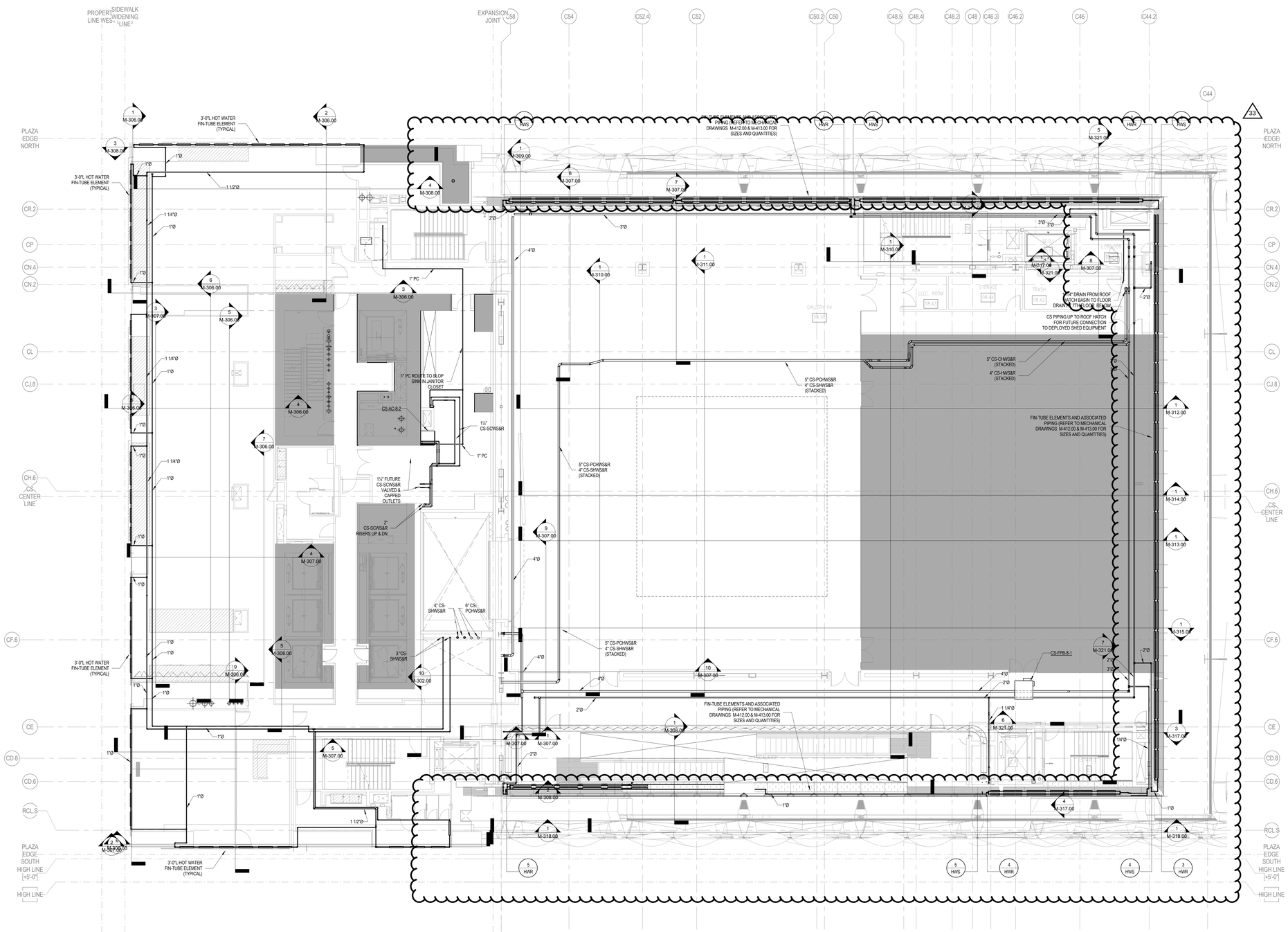

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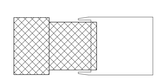

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PROJECT NUMBER
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TITLE
HVAC PIPING PLAN FIXED BUILDING LEVEL 08

SCALE: 1/8" = 1'-0"

0 8 16 24

DRAWING NO.
M-208.01

B-SCAN NO.
M-209.01

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Damian Titus
DOB Buildings
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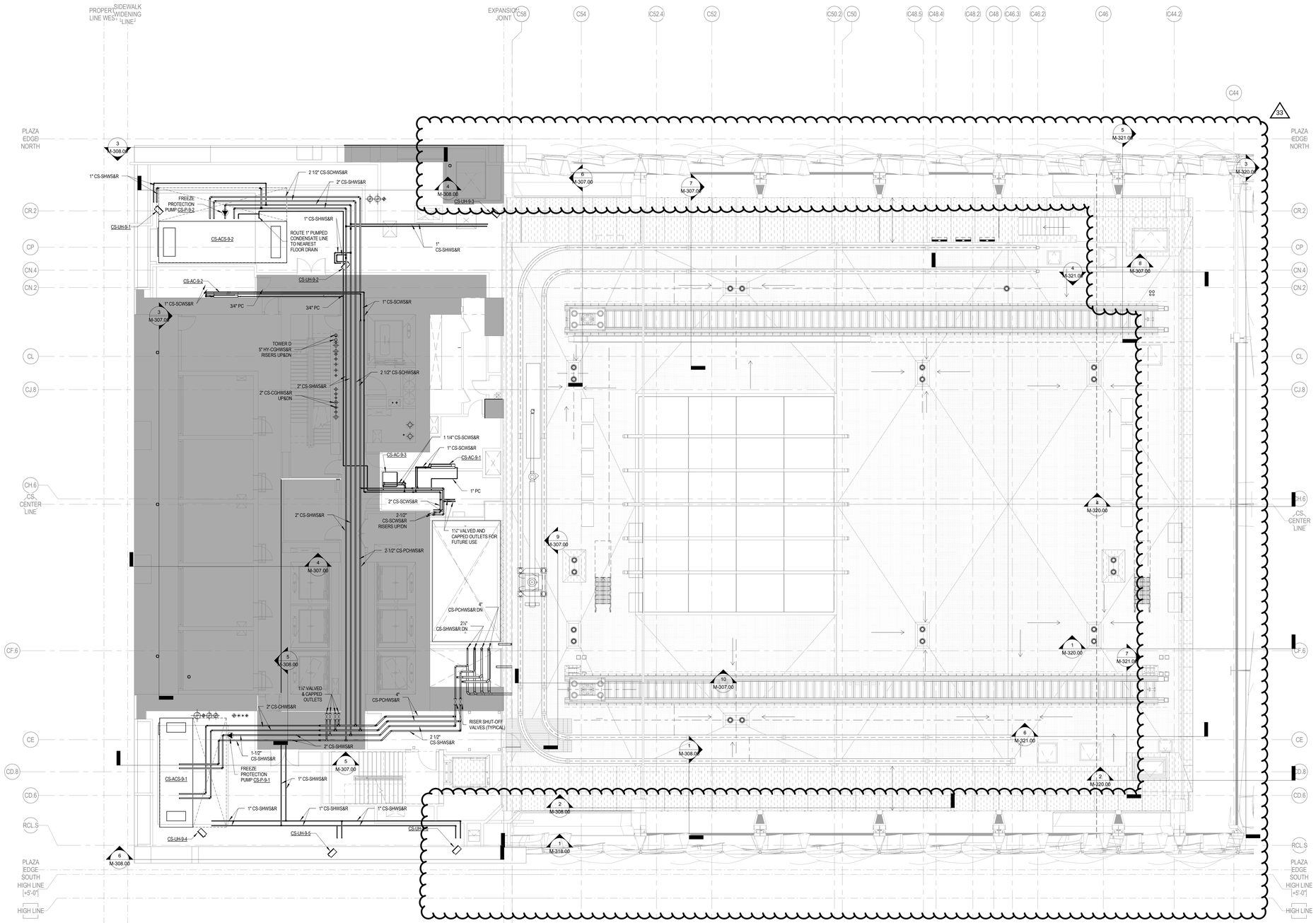

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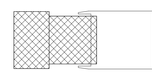

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PROJECT NUMBER
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TITLE

HVAC PIPING PLAN FIXED BUILDING LEVEL 09

SCALE: 1/8" = 1'-0"

0 8 16 24

DRAWING NO.
M-209.010

B-SCAN NO.

M-210.01

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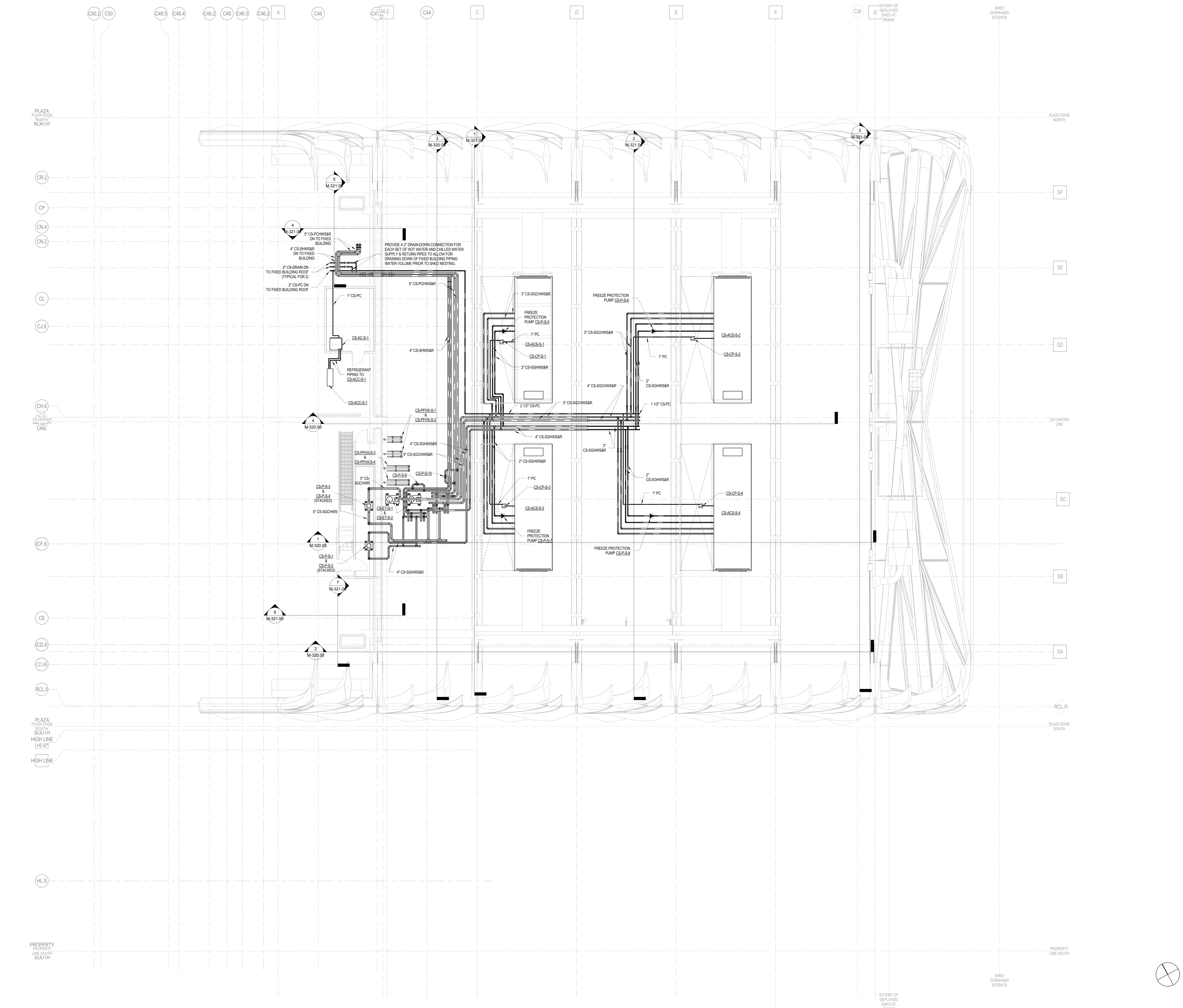

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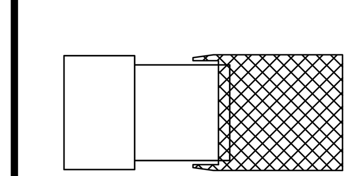

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CHECKED BY -

PROJECT NUMBER
14073.M.000

TITLE

HVAC PIPING PLAN DEPLOYED SHED MECHANICAL LEVEL

SCALE: 1/8" = 1'-0"

0 8 16 24

DRAWING NO.
M-209B.00

B-SCAN NO.
M-211.00

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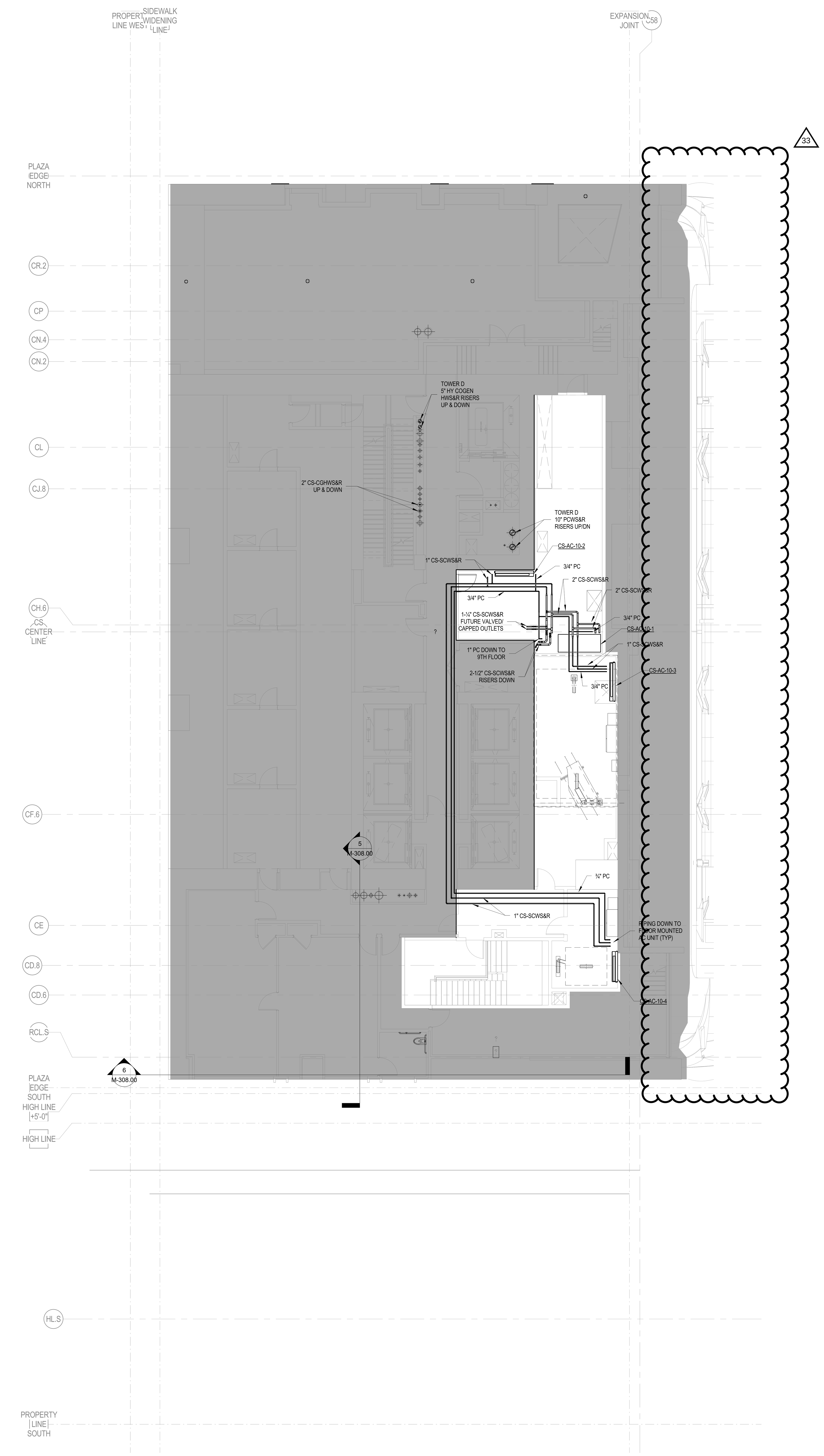
ES859698558 Scan Code

NOTES



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Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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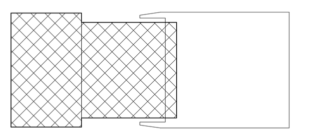
KEY PLAN



ISSUE	△	PRINTING	DATE
44	33	DOB AMENDMENT 5	04.08.2016
19		DOB AMENDMENT 3	09.16.2015
17		DOB AMENDMENT 02	09.03.2015
12	6	ADDENDUM #1	07.22.2015
10		100% CONSTRUCTION DOCUMENTS	03.18.2015
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6		PRELIMINARY DOB SUBMISSION	12.10.2014

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PROJECT NUMBER
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TITLE
HVAC PIPING PLAN FIXED BUILDING LEVEL 10

SCALE: 1/8" = 1'-0"
0 8 16 24

DRAWING NO.
M-210.01

B-SCAN NO.
M-212.01

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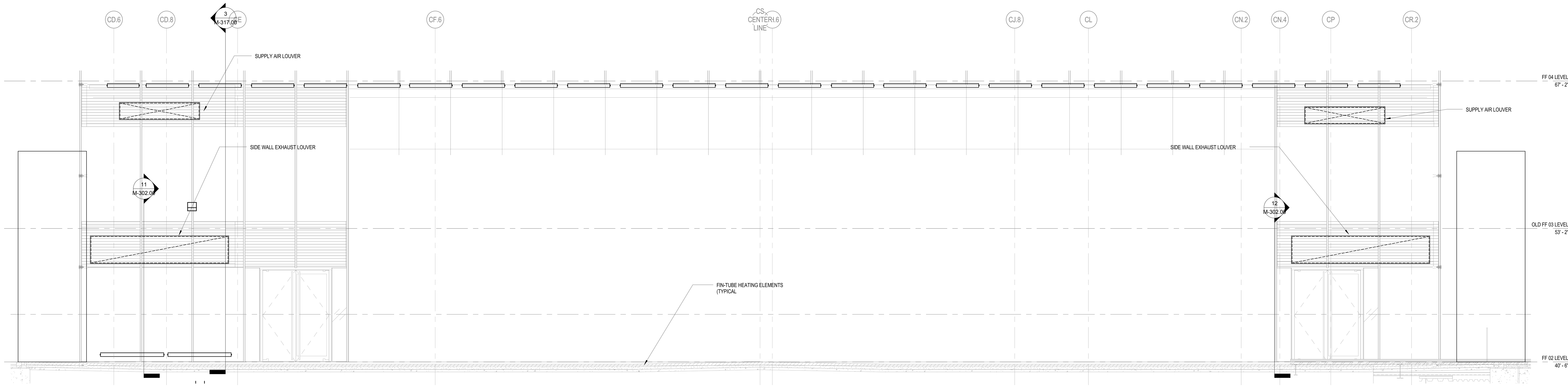
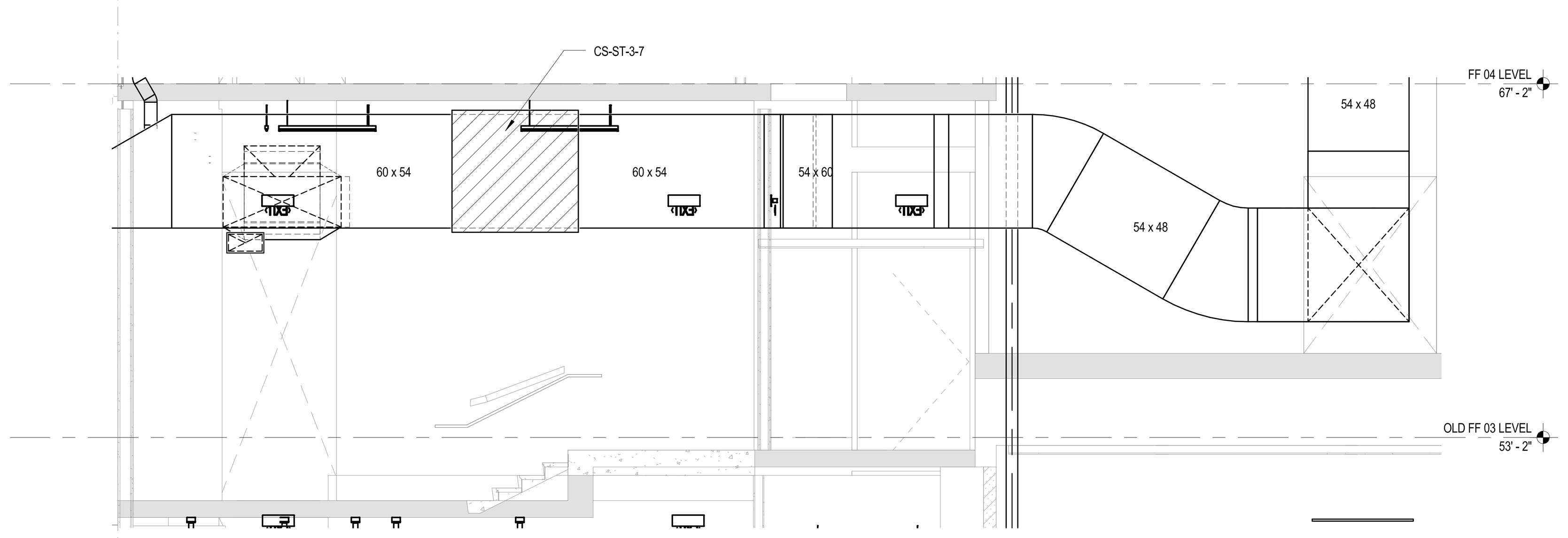
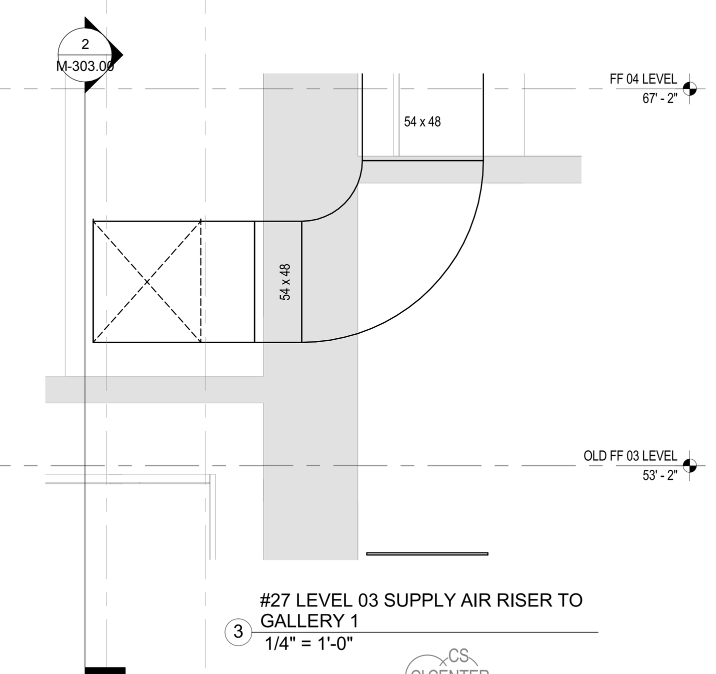
NOTES



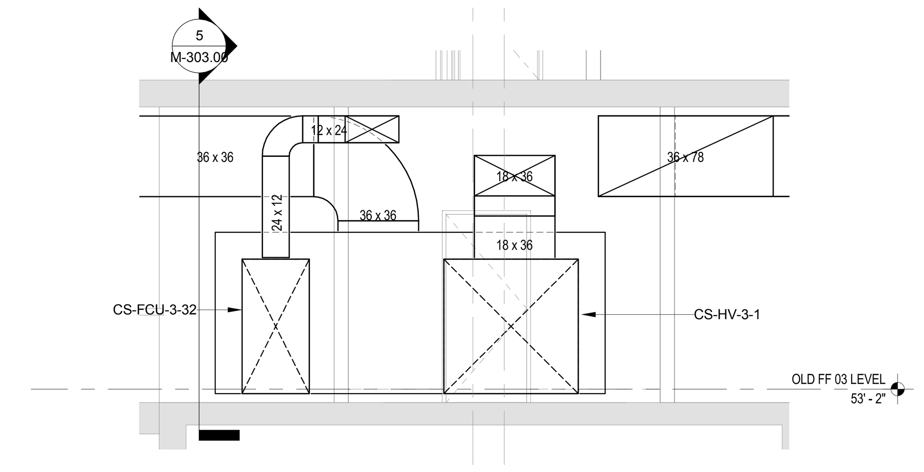
1 #24-EAST FACADE HEATING
1/4" = 1'-0"



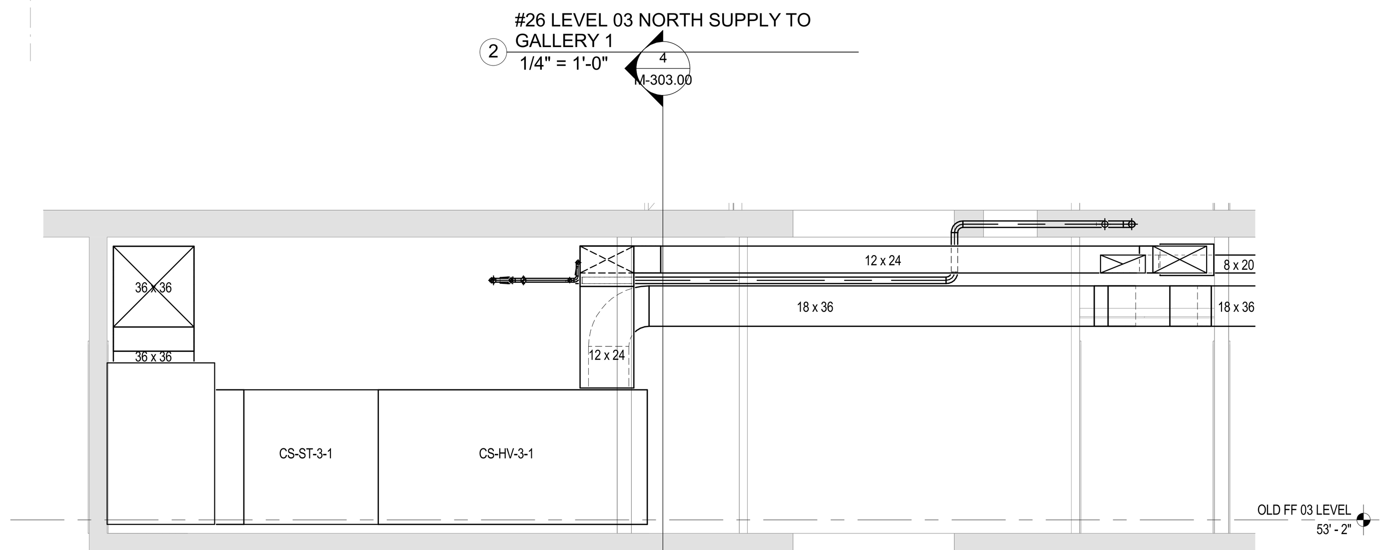
2 #26 LEVEL 03 NORTH SUPPLY TO GALLERY 1
1/4" = 1'-0"



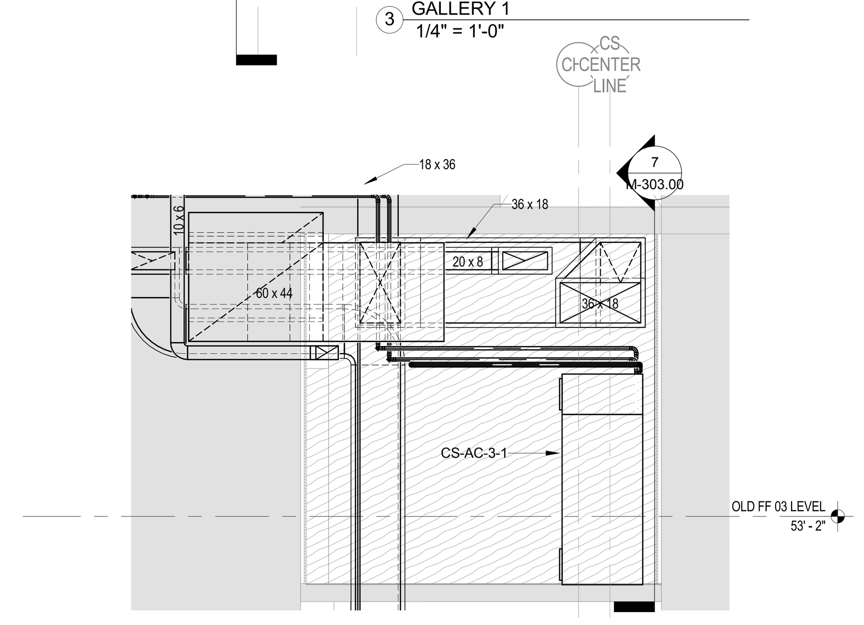
3 #27 LEVEL 03 SUPPLY AIR RISER TO GALLERY 1
1/4" = 1'-0"



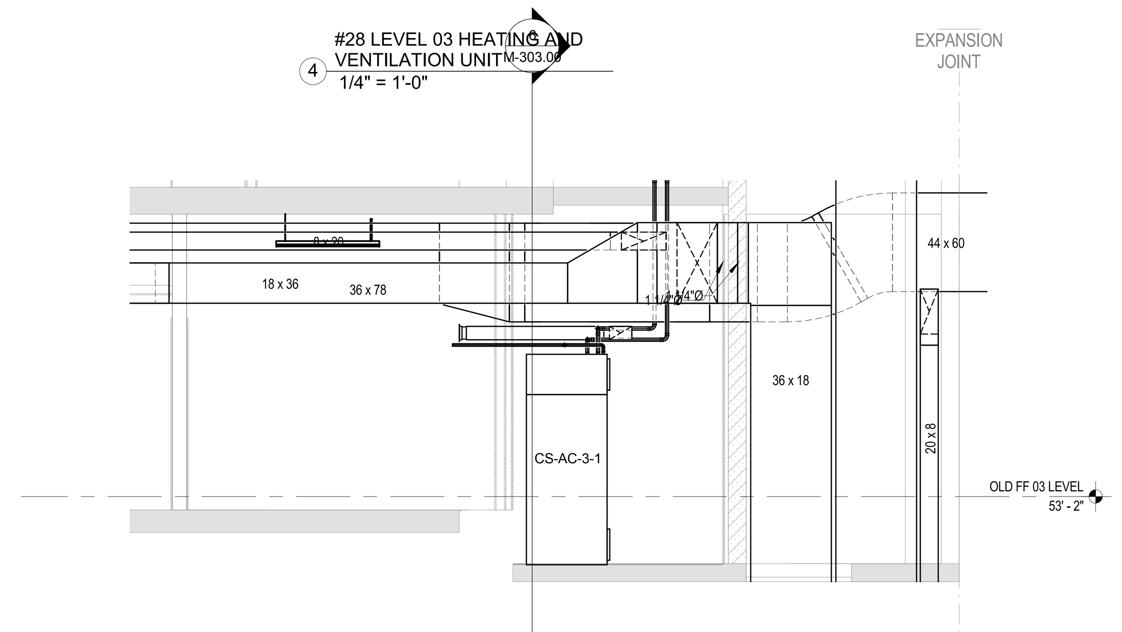
4 #28 LEVEL 03 HEATING AND VENTILATION UNIT
1/4" = 1'-0"



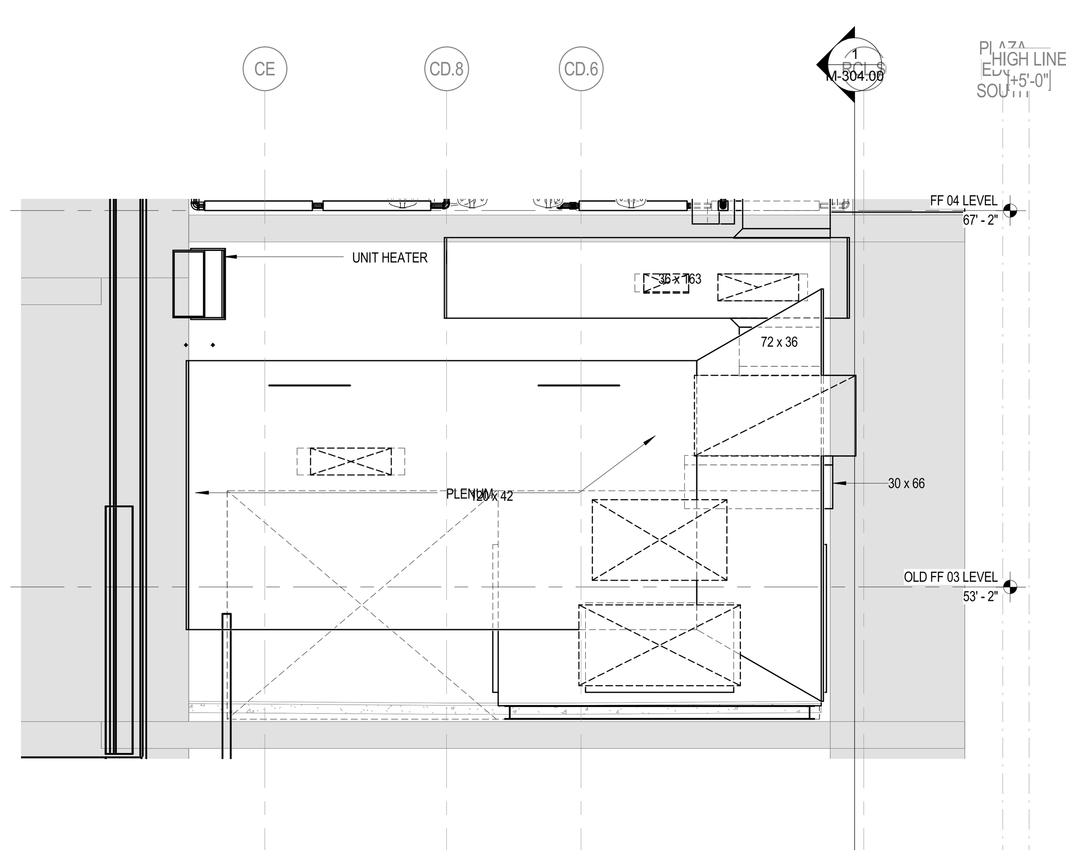
5 #29-LEVEL 03 NORTH VIEW HEATING AND VENTILATION UNIT
1/4" = 1'-0"



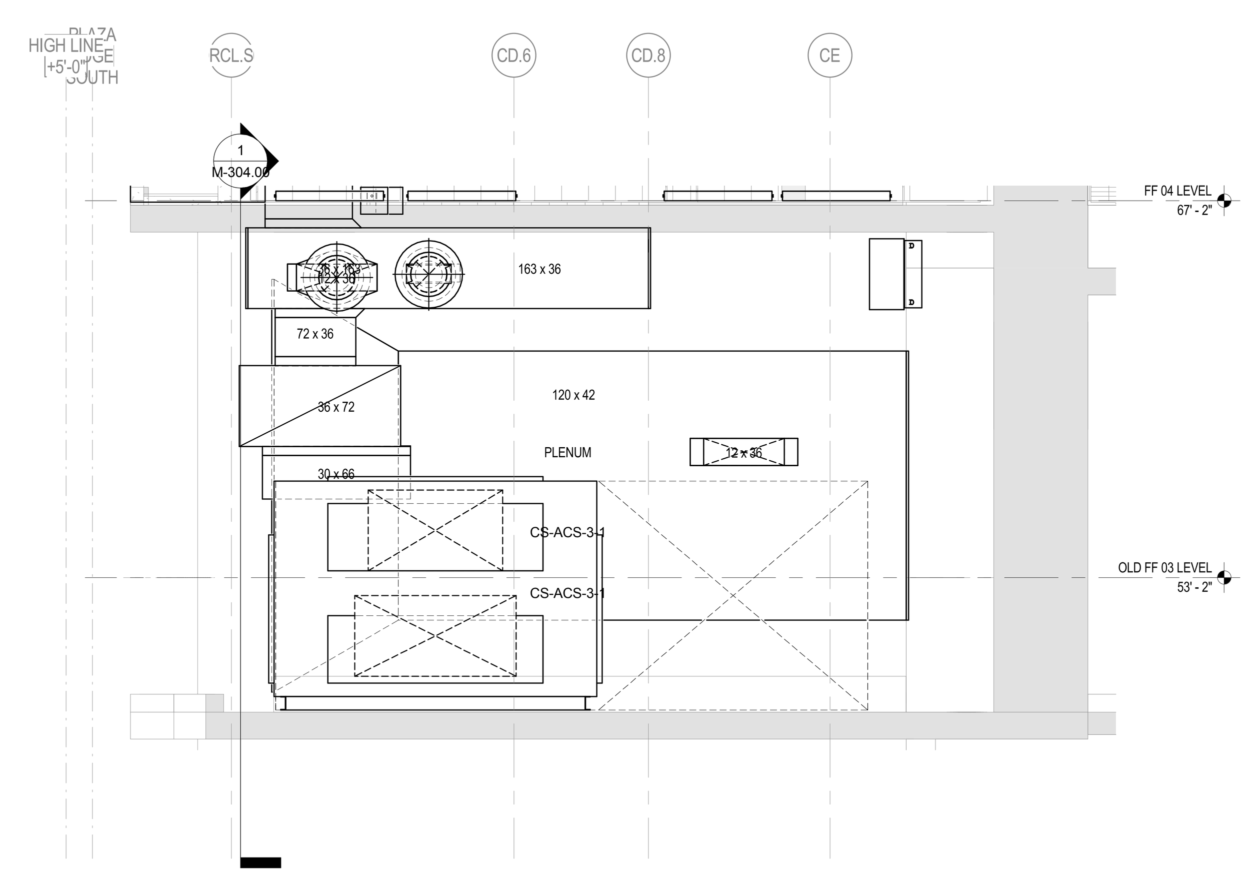
6 #30 LEVEL 03 SUPPLY AND RETURN AIR SHAFT DOWN
1/4" = 1'-0"



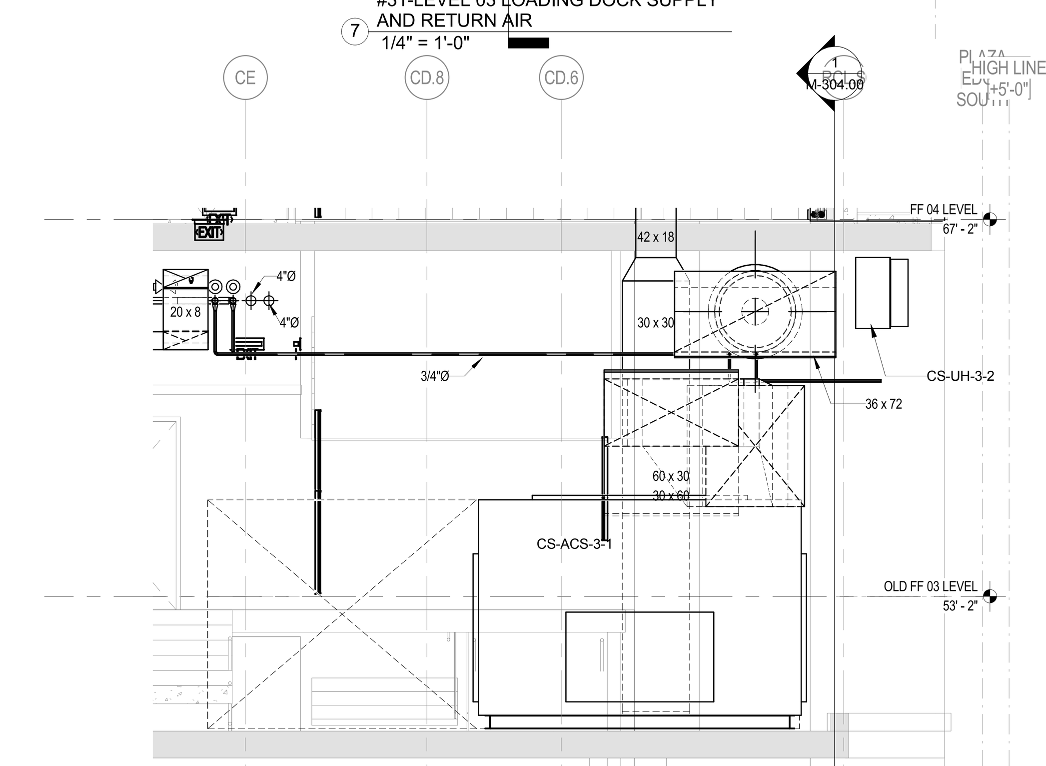
7 #31-LEVEL 03 LOADING DOCK SUPPLY AND RETURN AIR
1/4" = 1'-0"



8 #32-LEVEL 03 MER AND LOBBY VENTILATION
1/4" = 1'-0"



9 #33- LEVEL 03 LOBBY AIR HANDLER
1/4" = 1'-0"



10 #34-LEVEL 03 LOBBY SUPPLY AND RETURN
1/4" = 1'-0"

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ES332660041 Scan Code

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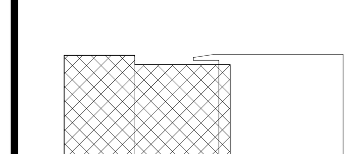
KEY PLAN



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PROJECT NUMBER
14073.M.000

TITLE
HVAC SECTION SHEET No. 03

SCALE: 1/4" = 1'-0"
0 8 16 24

DRAWING NO.
M-303.01

B-SCAN NO.
M-303.01

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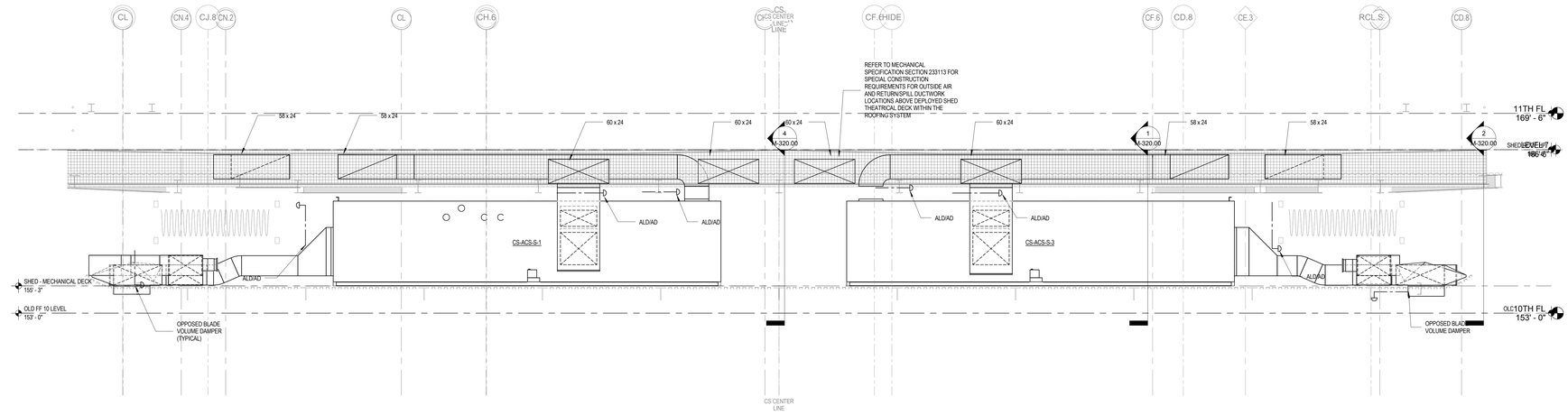
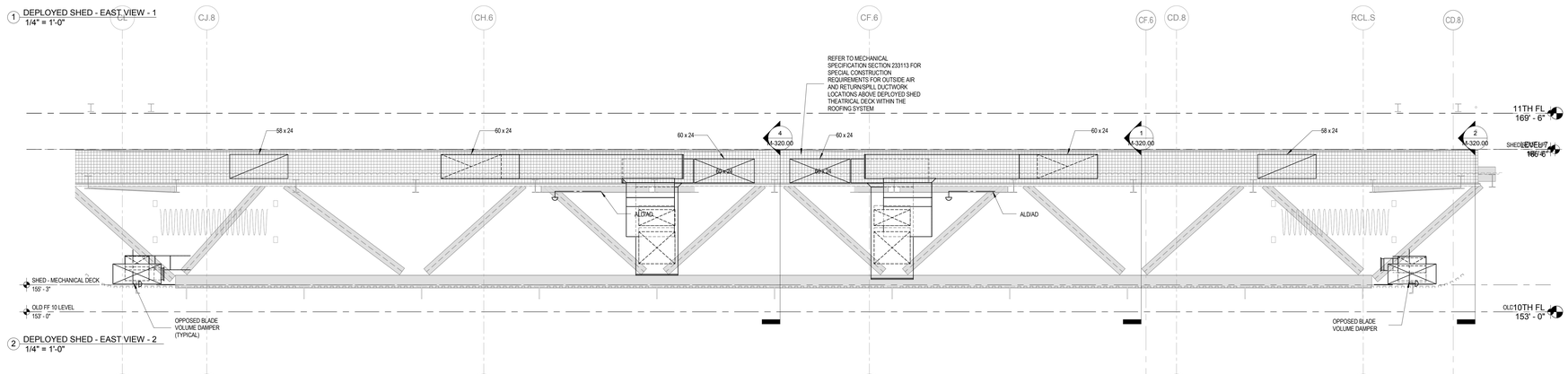


1 DEPLOYED SHED - EAST VIEW - 1
1/4" = 1'-0"



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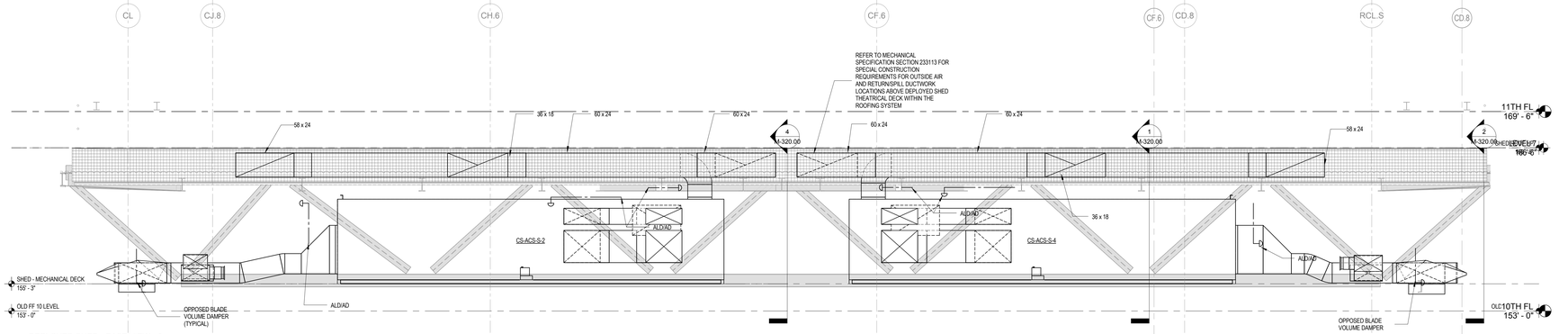
1/4" = 1'-0"



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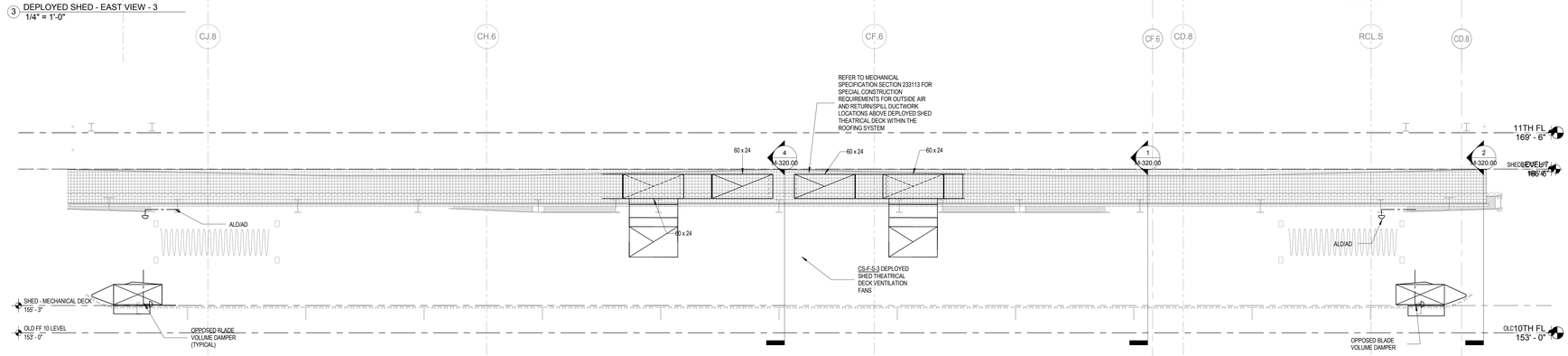
1/4" = 1'-0"



4 DEPLOYED SHED - EAST VIEW - 4
1/4" = 1'-0"

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PROJECT NUMBER
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TITLE
HVAC SECTION SHEET No. 19

SCALE: 1/4" = 1'-0"

0 8 16 24

DRAWING NO.
M-319.00

B-SCAN NO.

M-319.00

53 of 89

Damian Titus
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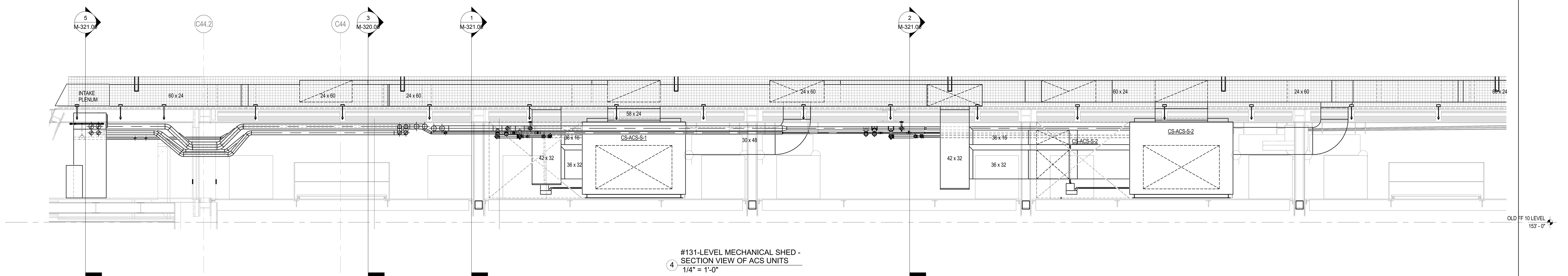
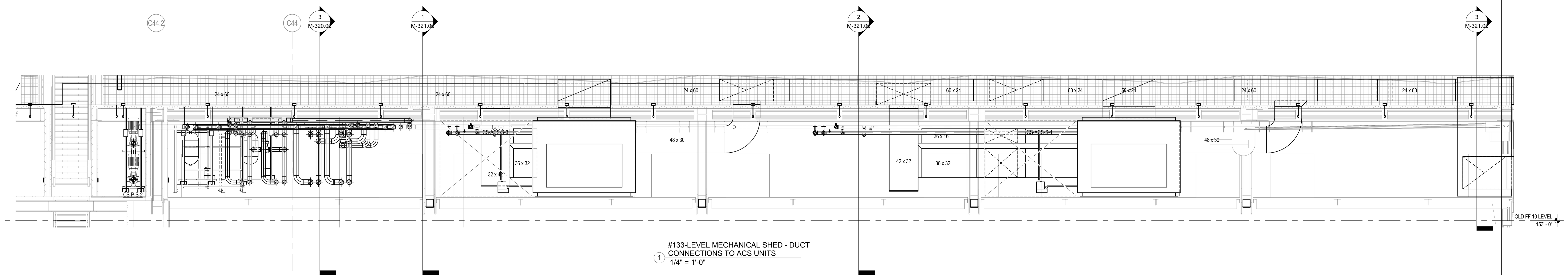
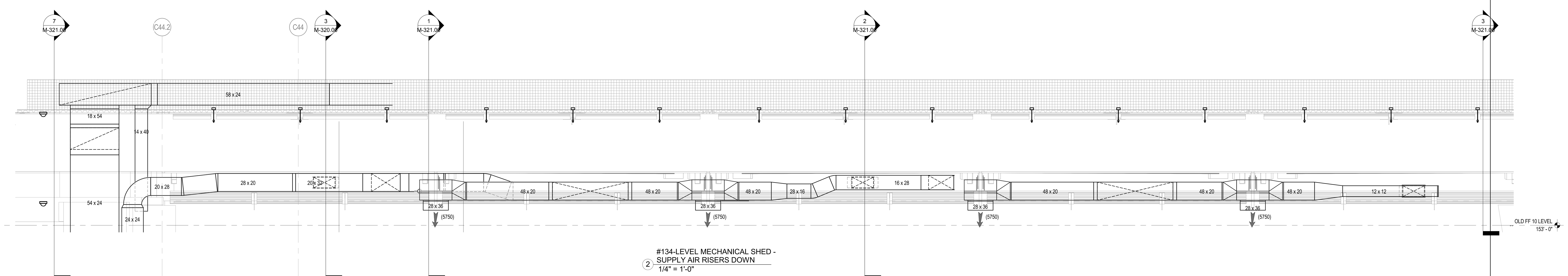


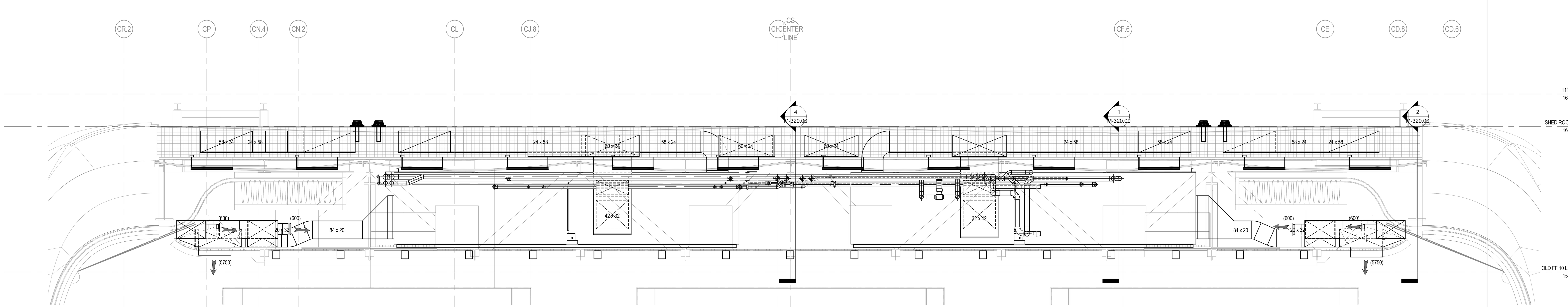
#131-LEVEL MECHANICAL SHED - SECTION VIEW OF ACS UNITS
1/4" = 1'-0"



#133-LEVEL MECHANICAL SHED - DUCT CONNECTIONS TO ACS UNITS
1/4" = 1'-0"



#134-LEVEL MECHANICAL SHED - SUPPLY AIR RISERS DOWN
1/4" = 1'-0"



#135-LEVEL MECHANICAL SHED - AIR CONDITIONING SYSTEMS CS-ACS-9-1 AND CS-ACS-9-3
1/4" = 1'-0"

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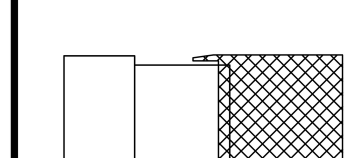
KEY PLAN



ISSUE		PRINTING	DATE
44	33	DOB AMENDMENT 5	04.08.2016
17		DOB AMENDMENT 02	09.03.2015
12	6	ADDENDUM #1	07.22.2015
10		100% CONSTRUCTION DOCUMENTS	03.18.2015

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No. 68811
LICENSED PROFESSIONAL ENGINEER

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PROJECT NUMBER
14073.M.000

TITLE
HVAC SECTION SHEET No. 20

SCALE: 1/4" = 1'-0"

DRAWING NO.
M-320.00

B-SCAN NO.
M-320.00

54 of 89

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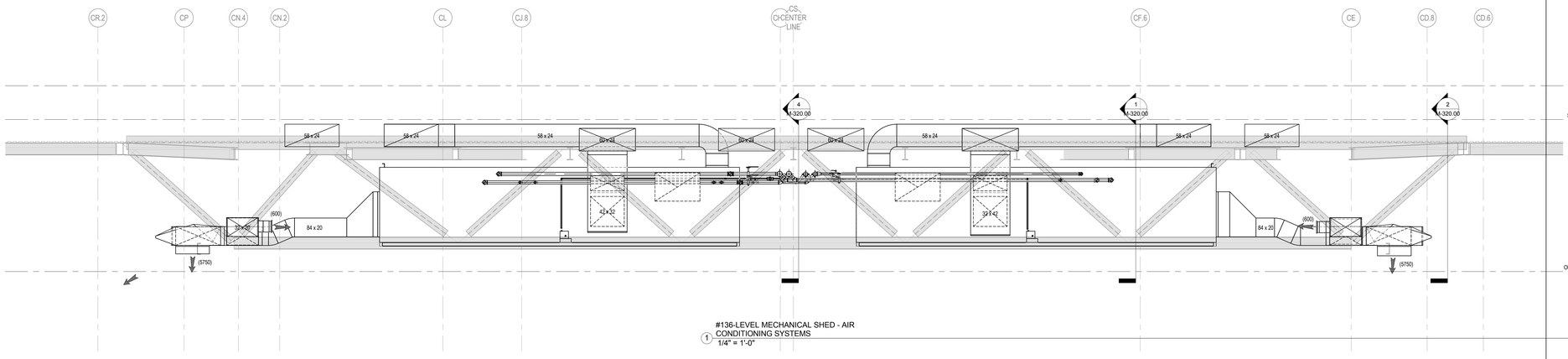
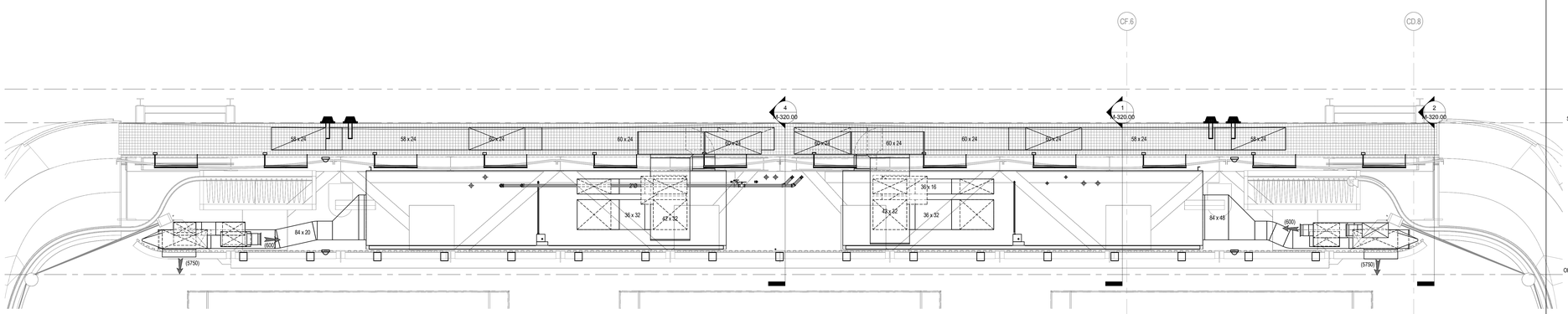
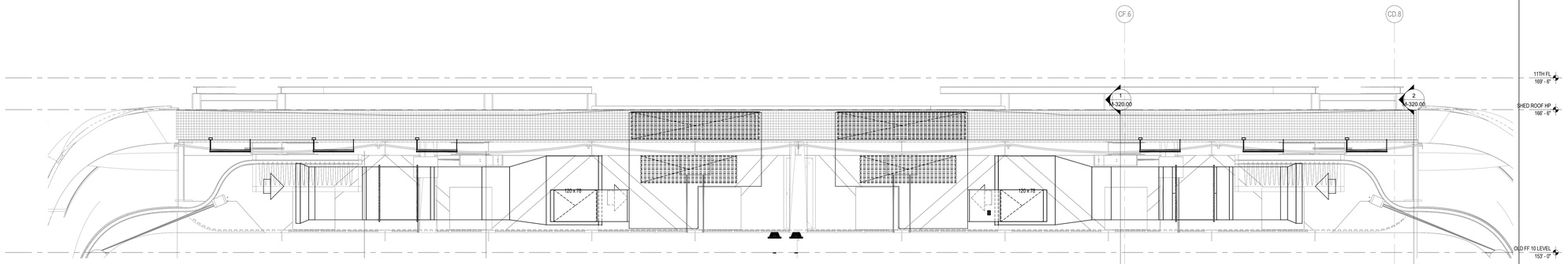
DEPT OF BLDGS 421302297 Job Number
E350529990B5 Scan Code



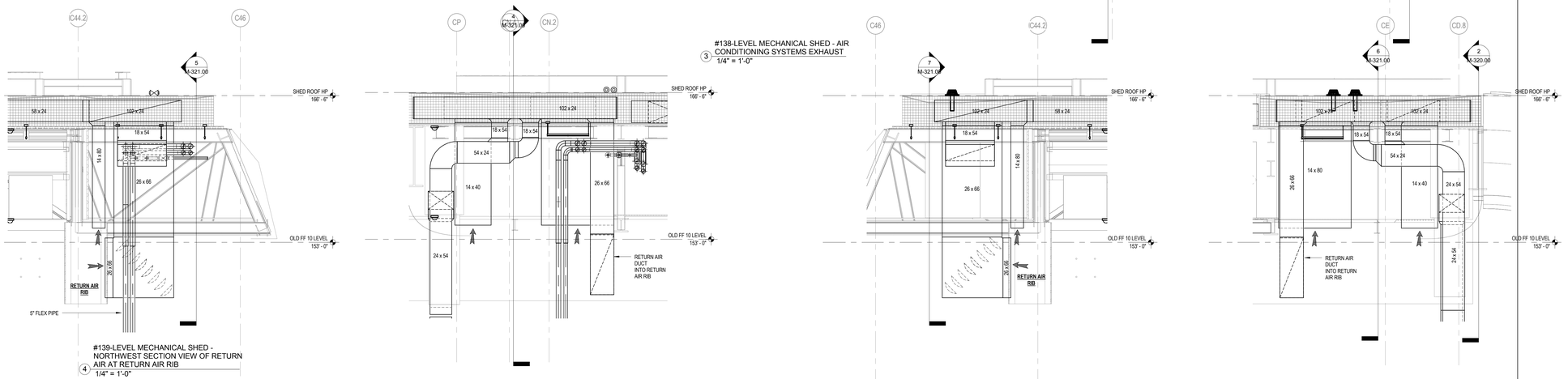
1 #136-LEVEL MECHANICAL SHED - AIR CONDITIONING SYSTEMS
1/4" = 1'-0"



2 #137-LEVEL MECHANICAL SHED - AIR CONDITIONING SYSTEMS CS-ACS-9-2 AND CS-ACS-9-4
1/4" = 1'-0"



3 #138-LEVEL MECHANICAL SHED - AIR CONDITIONING SYSTEMS EXHAUST
1/4" = 1'-0"



4 #139-LEVEL MECHANICAL SHED - NORTHWEST SECTION VIEW OF RETURN AIR AT RETURN AIR RIB
1/4" = 1'-0"

5 #140-LEVEL MECHANICAL SHED - NORTHWEST SECTION VIEW OF RETURN AIR DUCTWORK DROPS INTO RETURN AIR RIB
1/4" = 1'-0"

6 #141-LEVEL MECHANICAL SHED - SOUTHWEST SECTION VIEW OF RETURN AIR AT RETURN AIR RIB
1/4" = 1'-0"

7 #142-LEVEL MECHANICAL SHED - SOUTHWEST SECTION VIEW OF RETURN AIR DUCTWORK DROPS INTO RETURN AIR RIB
1/4" = 1'-0"

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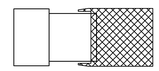

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14073.M.000

TITLE
HVAC SECTION SHEET No. 21

SCALE: 1/4" = 1'-0"

0 8 16 24

DRAWING NO.
M-321.00

B-SCAN NO.
M-321.00

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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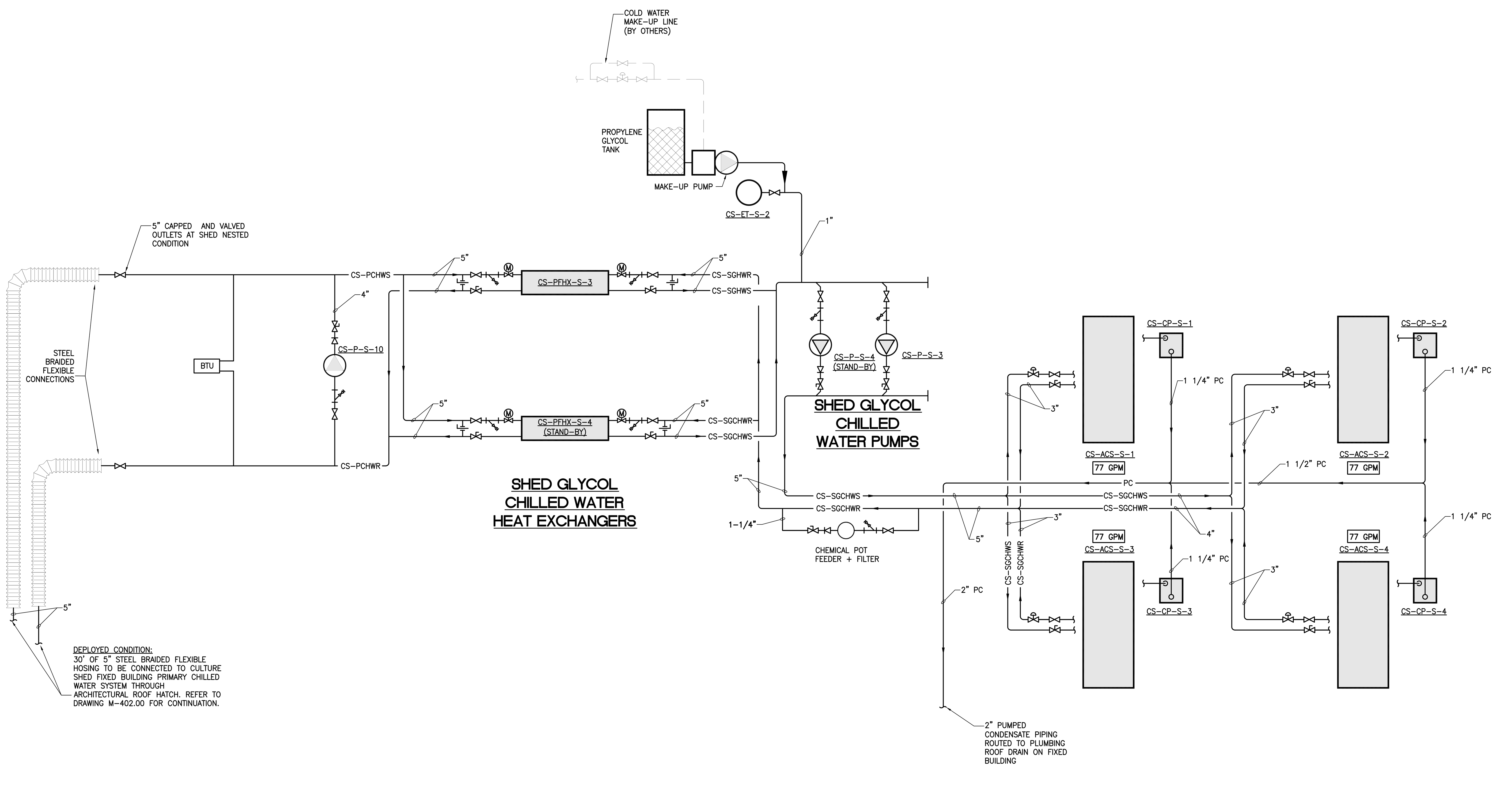

MECHANICAL DECK - DEPLOYED SHED

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APPROVED
Under Directive 2 of 1975
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Date: 07/15/2016
NYC Development Hub

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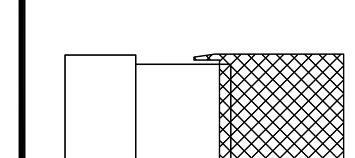

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6		PRELIMINARY DOB SUBMISSION	12.10.2014

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PROJECT NUMBER
14073.N.000

TITLE
HVAC
CONDENSER/CHILLED WATER
FLOW DIAGRAM No. 3

DRAWING NO.
M-403.00

B-SCAN NO.
M-403.00
58 of 89

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E3857850473 Scan Code

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PROVIDE DEDUCT ALTERNATE PRICE FOR ELIMATINATING ALL THE CO-GEN PLANT HEAT RECOVERY SYSTEM IN ITS ENTIRITY

06 LEVEL

05 LEVEL

04 LEVEL

03 LEVEL

02 LEVEL

01 LEVEL

00 LEVEL

C1 LEVEL

HY-CGHWR

HY-CGHWS

CS-CGHWR

CS-CGHWS

CS-SHWR

CS-SHWS

CS-FPB-5-1 CS-FPB-5-2 CS-FPB-5-3 CS-FPB-5-4 CS-FPB-5-5 CS-FPB-5-6 CS-FPB-5-7 CS-FPB-5-8 CS-FPB-5-9 CS-FPB-5-10 CS-FPB-5-11 CS-FPB-5-12 CS-FPB-5-13 CS-FPB-5-14

CS-FPB-5-10 CS-FPB-5-10

BTU

CS-PFHX-5-5

CS-PFHX-5-4 (STAND-BY)

CS-PFHX-5-3 (STAND-BY)

CS-P-5-11

CS-P-5-10 (STAND-BY)

CS-P-5-9

AIR SEPARATOR (LINE SIZE)

HOT WATER THERMAL LOOP HEAT EXCHANGERS

DOMESTIC HW HTRS. (REFER TO PLUMBING DRAWING.)

HX STBY HX HX

CHEMICAL POT FEEDER + FILTER

CS-FPB-3-16 CS-FPB-3-15

CS-FPB-3-1 CS-FPB-3-2 CS-FPB-3-3 CS-FPB-3-4 CS-FPB-3-5 CS-FPB-3-6 CS-FPB-3-7 CS-FPB-3-8 CS-FPB-3-9 CS-FPB-3-10 CS-FPB-3-11 CS-FPB-3-12 CS-FPB-3-13 CS-FPB-3-14

CS-SHWS CS-SHWR

1 1/4" VALVED & CAPPED OUTLETS FOR FUTURE USE

CS-UH-5-1 CS-UH-5-2 CS-UH-5-3 CS-UH-5-4 CS-UH-5-5 CS-UH-5-6 CS-UH-5-7 CS-UH-5-8

CS-P-5-4 CS-P-5-3 CS-P-5-2 CS-P-5-1

CS-ACS-5-4 CS-ACS-5-3 CS-ACS-5-2 CS-ACS-5-1

CS-UH-3-3 CS-HV-3-1 CS-HV-3-2 CS-UH-3-2 CS-ACS-3-1 CS-UH-3-1

CS-P-3-2 CS-P-3-3 CS-P-3-1

FOR REHEAT COIL

CS-FCU-2-1 CS-FCU-2-2

HOT WATER PROPYLENE GLYCOL RADIANT FLOOR HEAT EXCHANGER

GHWS&R TO PLAZA RADIANT FLOOR HEATING MANIFOLDS

CS-GHWS CS-GHWR

CS-P-1-1 CS-P-1-2 (STAND-BY)

CHEMICAL POT FEEDER + FILTER

COLD WATER MAKE-UP LINE (BY OTHERS)

PROPYLENE GLYCOL TANK

MAKE-UP PUMP

CS-ET-1-1

CS-PFHX-1-1

CS-UH-1-3 CS-UH-1-4 CS-UH-1-5 CS-UH-1-2

FOR CONTINUATION, SEE OTHER HALF OF DRAWING

GLYCOL HOT WATER RADIANT FLOOR PUMPS

(1) ROWS (8) FIN TUBES 5'-0" LONG EACH

CS-UH-1-1 CS-FCU-1-1 CS-FCU-1-2 CS-FCU-1-3 CS-FCU-1-4

1 1/4" VALVED & CAPPED OUTLETS FOR FUTURE USE

(2) ROWS (5) FIN TUBES 5'-0" LONG EACH

(2) ROWS (6) FIN TUBES 5'-0" LONG EACH

CS-FCU-00-3 CS-FCU-00-2

CS-UH-00-10 CS-UH-00-2 CS-UH-00-3

CS-UH-00-1 CS-UH-00-12 CS-FCU-00-1 CS-UH-00-13

1" VALVED & CAPPED OUTLETS FOR FUTURE

CS-UH-C1-3 CS-UH-C1-2 CS-UH-C1-1

HUDSON YARDS COGEN HOT WATER TREATMENT LOOP RISERS (WITHIN TOWER D SCOPE OF WORK)

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Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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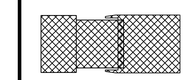

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HVAC
HOT WATER
FLOW DIAGRAM No. 1

DRAWING NO.
M-404.01

B-SCAN NO.

M-404.01

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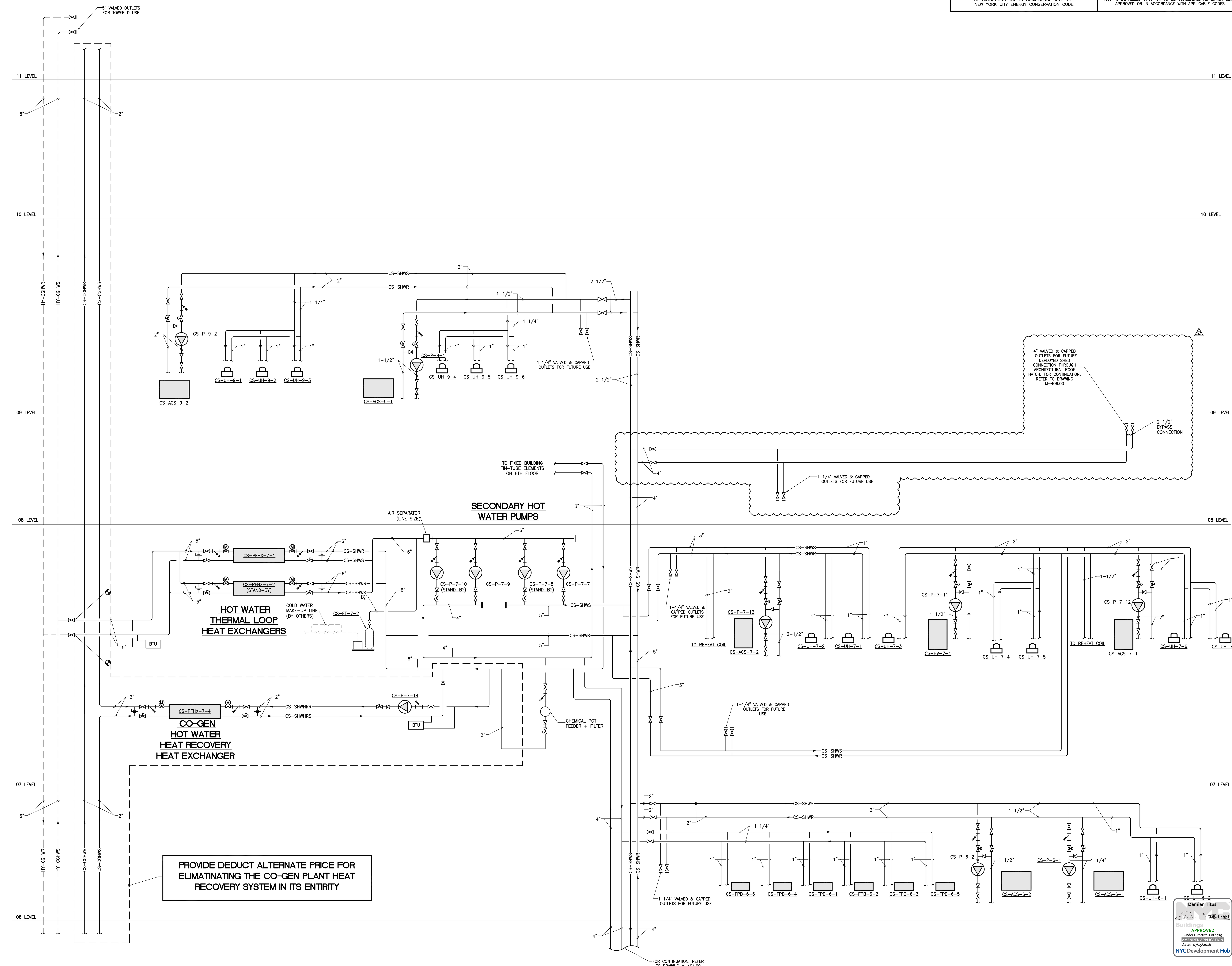

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FLOW DIAGRAM No. 2

DRAWING NO.
M-405.01

B-SCAN NO.

M-405.01

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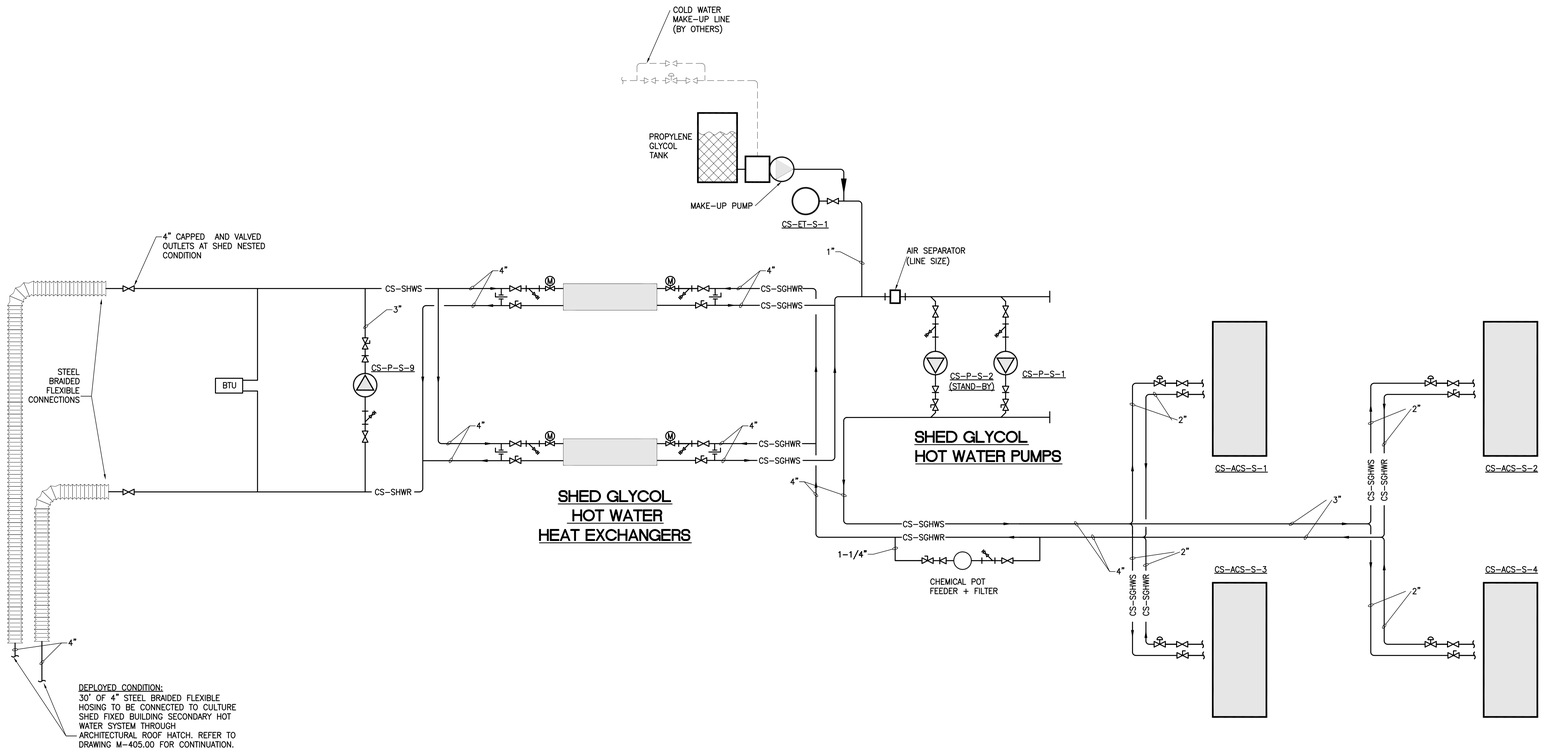

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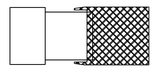

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HVAC
HOT WATER
FLOW DIAGRAM No. 3

DRAWING NO.
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(SECTION 23 73 23)

AIR CONDITIONING SYSTEMS

(CLIMATECRAFT AS STD)

ACS SYSTEM No.	LOCATION	SERVICE	TOTAL AIR (CFM)	PRE-FILTERS: MINIMUM OUTSIDE AIR (CFM)	PRE-FILTERS: MAX. PRESSURE DROP-CLEAN (IN. H2O)	PRE-FILTERS: FILTER TYPE	PRE-FILTERS: MERV RATING	PRE-FILTERS: NUMBER OF SECTIONS-WIDE	PRE-FILTERS: NUMBER OF SECTIONS-HIGH	PRE-FILTERS: MAX. PRESSURE DROP DIRTY (IN.H2O)	FINAL FILTERS: MAX. PRESSURE DROP-CLEAN (IN. H2O)	FINAL FILTERS: FILTER TYPE	FINAL FILTERS: MERV RATING	FINAL FILTERS: NUMBER OF SECTIONS WIDE	FINAL FILTERS: NUMBER OF SECTIONS HIGH	FINAL FILTERS: MAX PRESSURE DROP CLEAN (IN. H2O)	FINAL FILTERS: FINAL PRESSURE DROP (IN. H2O)	FINAL FILTERS: # OF FINAL FILTER BANKS	GAS PHASE FILTERS: MAX. PRESSURE DROP-CLEAN (IN.H2O)	GAS PHASE FILTERS: FILTER TYPE	GAS PHASE FILTERS: % EFFICIENCY	GAS PHASE FILTERS: NUMBER OF SECTIONS-WIDE	GAS PHASE FILTERS: NUMBER OF SECTIONS-HIGH	GAS PHASE FILTERS: MAX. PRESSURE DROP DIRTY (IN.H2O)
CS-ACS-3-1	03 LEVEL	LOBBY	25,000	12,000	SEE SPEC	SEE SPEC	MERV 8	5	4	.4	SEE SPEC	RIGID	MERV 16	5	4	SEE SPEC	1.1	1	.5	ACTIVATED CARBON	SEE SPEC	5	4	.5
CS-ACS-5-1	05 LEVEL	GALLERY 2	44,000	7,500	SEE SPEC	SEE SPEC	MERV 8	6	5	.4	SEE SPEC	RIGID	MERV 16	6	5	SEE SPEC	1.1	1	.5	ACTIVATED CARBON	SEE SPEC	6	5	.5
CS-ACS-5-2	05 LEVEL	GALLERY 1	30,000	6,000	SEE SPEC	SEE SPEC	MERV 8	6	4	.4	SEE SPEC	RIGID	MERV 16	6	4	SEE SPEC	1.1	1	.5	ACTIVATED CARBON	SEE SPEC	6	4	.5
CS-ACS-5-3	05 LEVEL	CATERING PANTRY	4,500	1,000	SEE SPEC	SEE SPEC	MERV 8	2	2	.4	SEE SPEC	RIGID	MERV 16	2	2	SEE SPEC	1.1	1	.5	ACTIVATED CARBON	SEE SPEC	2	2	.5
CS-ACS-5-4	05 LEVEL	BACK OF HOUSE OAI	3,000	3,000	SEE SPEC	SEE SPEC	MERV 8	2	2	.4	SEE SPEC	RIGID	MERV 16	2	2	SEE SPEC	1.1	1	.5	ACTIVATED CARBON	SEE SPEC	2	2	.5
CS-ACS-6-1	06 LEVEL	BACK OF HOUSE	5,000	1,500	SEE SPEC	SEE SPEC	MERV 8	2	2	.4	SEE SPEC	RIGID	MERV 16	2	2	SEE SPEC	1.1	1	.5	ACTIVATED CARBON	SEE SPEC	2	2	.5
CS-ACS-6-2	06 LEVEL	08 LEVEL OFFICES	9,000	1,750	SEE SPEC	SEE SPEC	MERV 8	3	2	.4	SEE SPEC	RIGID	MERV 16	3	2	SEE SPEC	1.1	1	.5	ACTIVATED CARBON	SEE SPEC	3	2	.5
CS-ACS-7-1	07 LEVEL	GALLERY 3 WEST	25,000	5,250	SEE SPEC	SEE SPEC	MERV 8	4	5	.4	SEE SPEC	RIGID	MERV 16	4	5	SEE SPEC	1.1	1	.5	ACTIVATED CARBON	SEE SPEC	4	5	.5
CS-ACS-7-2	07 LEVEL	GALLERY 3 EAST	38,000	8,000	SEE SPEC	SEE SPEC	MERV 8	6	5	.4	SEE SPEC	RIGID	MERV 16	6	5	SEE SPEC	1.1	1	.5	ACTIVATED CARBON	SEE SPEC	6	5	.5
CS-ACS-9-1	09 LEVEL	08 LEVEL CAFE/BAR	10,000	2,500	SEE SPEC	SEE SPEC	MERV 8	3	2	.4	SEE SPEC	RIGID	MERV 16	3	2	SEE SPEC	1.1	1	.5	ACTIVATED CARBON	SEE SPEC	3	2	.5
△33 CS-ACS-9-2	09 LEVEL	GALLERY 4	20,000	4,000	SEE SPEC	SEE SPEC	MERV 8	4	4	.4	SEE SPEC	RIGID	MERV 16	4	4	SEE SPEC	1.1	1	.5	ACTIVATED CARBON	SEE SPEC	4	4	.5
CS-ACS-S-1 THRU CS-ACS-S-4	THEATRICAL DECK	DEPLOYED SHED	15,000	3,750	SEE SPEC	SEE SPEC	MERV 8	4	3	.4	SEE SPEC	RIGID	MERV 16	4	3	SEE SPEC	1.1	1	.5	ACTIVATED CARBON	SEE SPEC	4	3	.5

ACS SYSTEM No.	PRE-HEAT COILS (TYPE: W) AIR-SIDE: CFM	AIR-SIDE: ENTERING TEMP. (°F)	AIR-SIDE: LEAVING TEMP. (°F)	AIR-SIDE: MAX. PRESSURE DROP (IN. H2O)	WATER-SIDE: MAX. PRESSURE DROP (FT H2O)	WATER-SIDE: ENTERING TEMP. (°F)	WATER-SIDE: LEAVING TEMP. (°F)	WATER-SIDE: GPM	NUMBER OF SECTIONS	TUBE FACE	TOTAL FACE AREA (SQ. FT)	FACE VELOCITY (FPM)	ROW #	FIN SPACING (FIN/IN.)	CIRCUITING	HEIGHT IN.	LENGTH IN.
CS-ACS-3-1	25,000	50	75	.05	1.5	180	140	35	2	–	49.3	507	1	8	1/2	39	91
CS-ACS-5-1	44,000	50	75	.05	4.0	180	140	60	2	–	94.2	467	1	8	1/2	51	133
CS-ACS-5-2	30,000	50	75	.08	4.0	180	140	42	2	–	52.7	569	1	10	1/2	33	115
CS-ACS-5-3	4,500	50	75	.06	.25	180	140	6	1	–	9.9	457	1	10	1/2	33	43
CS-ACS-5-4	3,000	0	60	.07	3.4	180	140	10	1	–	7.2	419	2	6	1/4	24	43
CS-ACS-6-1	5,000	50	75	.05	1.75	180	140	7	1	–	9.0	447	1	9	1/4	30	43
CS-ACS-6-2	9,000	50	75	.04	3.4	180	140	12	1	–	20.9	430	1	7	1/2	45	67
CS-ACS-7-1	25,000	50	75	.04	3.6	180	140	35	2	–	56.6	442	1	7	1/2	42	97
CS-ACS-7-2	38,000	50	75	.06	3.1	180	140	52	2	–	71.9	529	1	8	1/2	45	115
CS-ACS-9-1	10,000	50	75	.04	4.1	180	140	14	1	–	20.9	478	1	7	1/2	45	67
CS-ACS-9-2	20,000	50	75	.07	3.5	180	140	28	2	–	35.4	565	1	8	1/2	30	85
CS-ACS-S-1 THRU CS-ACS-S-4	15,000	45	75	.06	4.0	180	140	28	2	–	32.9	456	1	10	1/4	30	79

ACS SYSTEM No.	COOLING COILS (TYPE"C"): CFM	SENSIBLE CAPACITY (BTU/H)	TOTAL CAPACITY (BTU/H)	AIR SIDE: ENTERING TEMP. DB (°F)	AIR SIDE: ENTERING TEMP. WB (°F)	AIR SIDE: LEAVING TEMP. DB (°F)	AIR SIDE: LEAVING TEMP. WB (°F)	AIR SIDE: MAX. PRESSURE DROP (IN. H2O)	WATER SIDE: GPM	WATER SIDE: ENTERING TEMP. (°F)	WATER SIDE: LEAVING TEMP. (°F)	WATER SIDE: MAX. PRESSURE DROP (FT H2O)	NUMBER OF SECTIONS	CASING HEIGHT	FINNED LENGTH PER SECTION	TOTAL FACE AREA (SQ. FT)	FACE VELOCITY (FPM)	FINS PER IN.	CIRCUITING	ROW #	HEIGHT IN.	LENGTH IN.
CS-ACS-3-1	25,000	910,972	1,356,763	84.8	68.7	51.1	50.9	0.79	162	42	58	15.4	2	84	91	53.1	471	10	1	8	42	91
CS-ACS-5-1	44,000	1,358,365	1,859,817	80.4	65.7	51.8	51.4	0.46	228	42	58	15.1	3	117	133	108.1	407	10	1	6	39	133
CS-ACS-5-2	30,000	958,151	1,319,035	81	66	51.4	51.1	0.47	159	42	58	12.8	2	96	115	76.7	391	11	1	6	48	115
CS-ACS-5-3	4,500	145,729	202,551	81.6	66.5	51.6	51.4	0.51	25	42	58	5.1	1	39	43	11.6	386	12	1/2	6	39	43
CS-ACS-5-4	3,000	131,021	221,384	92	74	51.6	51.4	0.52	27	42	58	11.6	1	27	43	8.1	372	9	1/2	8	27	43
CS-ACS-6-1	5,000	131,188	188,712	80	65	51.1	50.9	.35	23	42	58	5.15	1	39	43	11.6	343	8	1/2	8	39	43
CS-ACS-6-2	9,000	277,853	380,417	80.4	65.7	51.8	51.4	0.45	47	42	58	11.1	2	48	67	22.3	403	10	1/2	6	24	67
CS-ACS-7-1	25,000	784,003	1,080,754	80.7	65.9	51.7	51.3	0.57	132	42	58	10.8	2	84	97	56.6	442	8	1	8	42	97
CS-ACS-7-2	38,000	1,192,668	1,647,577	80.7	65.9	51.6	51.3	0.63	200	42	58	12.3	2	102	114	80.8	471	8	1	8	51	114
CS-ACS-9-1	10,000	317,161	439,678	81	66	51.6	51.1	0.42	53	42	58	14.9	2	54	67	25.1	398	7	1/2	8	27	67
CS-ACS-9-2	20,000	620,341	846,643	80.1	65.4	51.4	51.0	0.45	101	42	58	19.6	2	84	85	49.6	403	10	1/2	6	42	85
CS-ACS-S-1 THRU CS-ACS-S-4	15,000	460,777	592,103	80	65	51.6	51.5	0.94	77	44	60	18.2	2	72	79	39.5	380	12	2/3	12	36	79

(SECTION 23 73 23)

AIR CONDITIONING SYSTEMS

(CLIMATECRAFT AS STD)

ACS SYSTEM No.	LOCATION	SERVICE	HOT WATER REHEAT COILS AIR SIDE: CFM	AIR SIDE: ENTERING TEMP. (°F)	AIR SIDE: LEAVING TEMP. (°F)	AIR SIDE: MAX. PRESSURE DROP (IN. H2O)	WATER SIDE: GPM	WATER SIDE: ENTERING TEMP. (°F)	WATER SIDE: LEAVING TEMP. (°F)	WATER SIDE: MAX. PRESSURE DROP (FT H2O)	NUMBER OF SECTIONS	FINNED LENGTH	CASING HEIGHT	TOTAL FACE AREA (SQ. FT)	FACE VELOCITY (FPM)	ROW DEEP	FIN SPACING(FIN/IN)	CIRCUITING	MFGR. TYPE
CS-ACS-3-1	03 LEVEL	LOBBY	25,000	54	71	.04	19	180	132	.50	2	78	91	49.3	507	1	6	1/2	–
CS-ACS-5-1	05 LEVEL	GALLERY 2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CS-ACS-5-2	05 LEVEL	GALLERY 1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CS-ACS-5-3	05 LEVEL	CATERING PANTRY	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CS-ACS-5-4	05 LEVEL	BACK OF HOUSE OAI	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CS-ACS-6-1	06 LEVEL	BACK OF HOUSE	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CS-ACS-6-2	06 LEVEL	08 LEVEL OFFICES	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CS-ACS-7-1	07 LEVEL	GALLERY 3 WEST	25,000	54	71	.05	19	180	132	.56	2	66	97	44.5	562	1	6	1/2	–
CS-ACS-7-2	07 LEVEL	GALLERY 3 EAST	38,000	54	73	.04	29	180	126	.68	2	90	115	71.9	529	1	6	1/2	–
CS-ACS-9-1	09 LEVEL	08 LEVEL CAFE/BAR	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
△33 CS-ACS-9-2	09 LEVEL	GALLERY 4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CS-ACS-S-1 THRU CS-ACS-S-4	THEATRICAL DECK	DEPLOYED SHED	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

ACS SYSTEM No.	SUPPLY FAN DATA: CFM	QUANTITY OF FANS	EXTERNAL STATIC PRESSURE IN H2O	TOTAL STATIC PRESSURE (IN. H2O)	MAX. OUTLET VELOCITY (FPM)	DISCHARGE DIRECTION	FAN R.P.M.	FAN ROTATION	WIDTH & INLET	WHEEL DIAMETER (IN.)	UNIT: TYPE	UNIT: SIZE	B.H.P.	MIN. MOTOR H.P.	MOTOR R.P.M.	VOLTS	PHASE	HERTZ	ON EMERGENCY POWER	VIB. BASE SPEC. TYPE	VIB. BASE MIN. STATIC DEFL. (IN.)	CLASS
CS-ACS-3-1	6,250	4	3.35	6.66	2461	–	2749	CW	–	18.25	FAN ARRAY	18MTX 100	9.61	15	1775	460	3	60	N	SEE SPEC	SEE SPEC	2
CS-ACS-5-1	11,000	4	3.85	6.73	2402	–	2011	CW	–	24.5	FAN ARRAY	24MTX 100	15.98	25	1775	460	3	60	N	SEE SPEC	SEE SPEC	2
CS-ACS-5-2	7,500	4	3.6	6.54	3279	–	2764	CW	–	20	FAN ARRAY	20MTX 75	11.6	15	1775	460	3	60	N	SEE SPEC	SEE SPEC	2
CS-ACS-5-3	4,500	1	3.5	6.35	2174	–	2922	CW	–	16.5	PLENUM	16MTX 100	6.34	7.5	1775	460	3	60	N	SEE SPEC	SEE SPEC	2
CS-ACS-5-4	3,000	1	3.5	6.39	2679	–	3540	CW	–	12	PLENUM	12-QEP	4.62	7.5	1760	460	3	60	N	SEE SPEC	SEE SPEC	3
CS-ACS-6-1	5,000	1	2.25	5	1932	–	2593	CW	–	16.5	PLENUM	16MTX 100	4.5	7.5	1775	460	3	60	N	SEE SPEC	SEE SPEC	2
CS-ACS-6-2	9,000	1	2.75	5.44	2951	–	2504	CW	–	20	PLENUM	20MTX 100	11.6	15	1775	460	3	60	N	SEE SPEC	SEE SPEC	2
CS-ACS-7-1	6,250	4	3.85	6.71	2461	–	2755	CW	–	18.25	FAN ARRAY	18MTX 100	9.68	15	1775	460	3	60	Y	SEE SPEC	SEE SPEC	2
CS-ACS-7-2	9,500	4	3.85	6.96	3115	–	2731	CW	–	20	FAN ARRAY	20MTX 100	15.3	20	1775	460	3	60	Y	SEE SPEC	SEE SPEC	2
CS-ACS-9-1	5,000	2	3.6	6.26	2183	–	2789	CW	–	18.25	FAN ARRAY	18MTX 100	7.45	10	1775	460	3	60	N	SEE SPEC	SEE SPEC	2
CS-ACS-9-2	10,000	2	3.6	6.46	2625	–	1919	CW	–	24.5	FAN ARRAY	24MTX 100	13.86	20	1775	460	3	60	N	SEE SPEC	SEE SPEC	2
CS-ACS-S-1 THRU CS-ACS-S-4	7,500	2	3	6.36	2183	–	2980	CW	–	18.25	PLENUM	18MTX 100	11.84	15	1775	460	3	60	N	SEE SPEC	SEE SPEC	2

ACS SYSTEM No.	RETURN FAN DATA: CFM	EXTERNAL STATIC PRESSURE IN H2O	TOTAL STATIC PRESSURE (IN. H2O)	MAX. OUTLET VELOCITY (FPM)	DISCHARGE DIRECTION	FAN R.P.M.	FAN ROTATION	WIDTH & INLET	WHEEL DIAMETER (IN.)	UNIT: TYPE	UNIT: SIZE	B.H.P.	MIN. MOTOR H.P.	MOTOR R.P.M.	VOLTS	PHASE	HERTZ	ON EMERGENCY POWER	VIB. BASE SPEC. TYPE	VIB. BASE MIN. STATIC DEFL. (IN.)	CLASS	SOUND TRAPS: REQUIRED	SOUND TRAPS: SIZE	REMARKS
CS-ACS-3-1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	YES		PROVIDE W/ HUMIDIFICATION W/ VFD SET TO CONSTANT SPEED
CS-ACS-5-1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	YES		PROVIDE W/ HUMIDIFICATION
CS-ACS-5-2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	YES		PROVIDE W/ HUMIDIFICATION
CS-ACS-5-3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	NO		
CS-ACS-5-4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	NO		
CS-ACS-6-1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	NO		
CS-ACS-6-2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	YES		
CS-ACS-7-1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	YES		PROVIDE W/ HUMIDIFICATION
CS-ACS-7-2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	YES		PROVIDE W/ HUMIDIFICATION
CS-ACS-9-1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	YES		
CS-ACS-9-2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	YES		
CS-ACS-S-1 THRU CS-ACS-S-4	15,000	2.5	3.12	1809	–	1170	CW	–	33	PLENUM	33-QEP-85	11.11	15	1765	460	3	60	N	–	–	–	NO		40% PROPYLENE GLYCOL

NOTES:

1. REFER TO DETAIL SHEETS M-608.00 THROUGH M-610.00 FOR UNIT DIMENSIONAL DETAILS/INFORMATION.
2. ALL SUPPLY FANS SHALL HAVE ISOLATION DAMPERS FOR EACH FAN.
3. ALL ACCESSIBLE SECTIONS SHALL BE FURNISHED AND INSTALLED WITH INTERNAL LIGHTING (MARINE LIGHTS) AND SWITCHING.
4. ALL FANS SHALL BE PROVIDED WITH FACTORY MOUNTED VARIABLE SPEED DRIVES UNLESS OTHERWISE NOTED.
5. ALL ASSEMBLED AIR HANDLING UNITS SHALL BE MOUNTED ON NEOPRENE PADS, TYPE VI MOUNTING IN ADDITION TO INTERNAL SPRINGS.
6. UNIT MANUFACTURER SHALL SUPPLY ALL GRATING, RAILS, AND DAMPERS AS SHOWN ON PLANS.
7. UNITS SPECIFIED WITH HUMIDIFICATION SHALL BE PROVIDED WITH THE FOLLOWING:
   a) HUMIDIFICATION FOG NOZZLES CONTROL PANEL
   b) A WATER TREATMENT SYSTEM CONSISTING OF CARBON FILTER, WATER SOFTENER, 100 GPD REVERSE OSMOSIS, STORAGE TANK, UV, AND REPRESSURIZATION PUMP SHALL BE PROVIDED BY MEE FOG.
8. ACS UNITS CS-ACS-S-1 THROUGH CS-ACS-S-4 SHALL BE SELECTED TO OPERATE WITH 40% PROPYLENE GLYCOL WATER FOR BOTH HEATING AND COOLING OPERATION.
9. MAXIMUM VELOCITY THROUGH FILTERS SHALL BE 350 FPM.
10. ALL SOUND TRAPS SHALL BE OF LENGTH INDICATED ON DETAILS (SHEETS M-608.00 THROUGH M-610.00 AND SHALL BE SIMILAR TO MODEL ES AS MANUFACTURED BY IAC.

MAXIMUM CASING RADIATED SOUND POWER (IN dB) OF CS-ACS-S-1 THRU 4:

FREQUENCY, HZ	63	125	250	500	1000	2000	4000	8000
SOUND PRESSURE LEVEL, dB	76	60	56	52	47	45	43	43

PROFESSIONAL'S STATEMENT

TO THE BEST OF OUR KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE.

BUILDING DEPARTMENT 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.

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Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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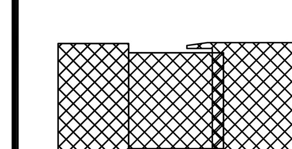
KEY PLAN



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PROJECT NUMBER
14073.N.000

TITLE
HVAC
SCHEDULE SHEET No. 1

DRAWING NO.
M-501.01

B-SCAN NO.
M-501.01

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HUMIDIFIERS

(SECTION 238413)

SERVICE	ACS SYSTEM NO.	LOCATION	SYSTEM TOTAL CFM	HUMIDIFICATION: R/O WATER INPUT LBS/HR	FOG OUTPUT LBS/HR @ 55°F	PSI	STAGES	MAXIMUM ZONE VALVES	NUMBER OF MANIFOLDS	TOTAL NUMBER OF NOZZLE	TOTAL NOZZLE GPM
LOBBY	CS-ACS-3-1	03 LEVEL	25,000	851	383	1,000	7	4	5	144	1.5
GALLERY 2	CS-ACS-5-1	05 LEVEL	44,000	1,481	667	1,000	7	4	8	270	2.6
GALLERY 1	CS-ACS-5-2	05 LEVEL	30,000	1,022	460	1,000	7	4	8	169	1.7
GALLERY 3 WEST	CS-ACS-7-1	07 LEVEL	25,000	851	383	1,000	7	4	5	144	1.5
GALLERY 3 EAST	CS-ACS-7-2	07 LEVEL	38,000	1,294	582	1,000	7	4	8	225	2.25

NOTE:

1. HUMIDIFIER DUAL PUMP SKID (PIPED IN A STAND-BY CONFIGURATION) SHALL INCLUDE (2) 10 HP PUMPS (11GPM,1000PSI) WITH (2) 10 HP ABB VSD'S AND ELECTRIC CONTROL PANEL. ELECTRICAL SERVICE IS 460V/3/60.

UNIT HEATERS AND ENTRANCE HEATERS

(SECTION 238239) (TRANE AS STD.)

ENTRANCE HEATER No. EH- AND UNIT HEATER No. UH-	QUANTITY	SERVICE	FAN CFM (HIGH SPEED)	FAN R.P.M.	HEAT OUTPUT BTU'S PER HOUR	ENTERING AIR TEMP. DB (°F)	FINAL AIR TEMP. DB (°F)	HOT WATER: GPM	HOT WATER: ENTERING WATER TEMP. (°F)	HOT WATER: LEAVING WATER TEMP. (°F)	STEAM @ 2 PSIG: LBS/HR STEAM CONDENSATE	ELECTRIC: (DUAL HEAT) KW @ HIGH SETTING	ELECTRIC: VOLTS/PHASE/HERTZ	MOTOR: H.P.	MOTOR: R.P.M	TYPE	MODEL No. FOR REFERENCE	REMARKS
CS-UH-C1-1	1	MECHANICAL C.04	850	1,000	23,000	60	85	1.25	180	140	–	–	115/1/60	1/20	1,000	HORIZ.	S-A36	
CS-UH-C1-2	1	STORAGE	500	1,550	11,800	60	82	.75	180	140	–	–	115/1/60	16W	1,550	HORIZ.	S-A18	
CS-UH-C1-3	1	DOMESTIC WATER PLBG. ROOM	850	1,000	23,000	60	85	1.25	180	140	–	–	115/1/60	1/20	1,000	HORIZ.	S-A36	
CS-UH-00-1 THRU CS-UH-00-3	3	TRUCK LOADING 00.30	900	1,000	28,000	60	105	1.5	180	140	–	–	115/1/60	1/6	1,000	HORIZ.	S-60	
CS-UH-00-4 CS-UH-00-6 CS-UH-00-9	3	SEE PLAN	400	–	11,263	60	86	–	–	–	–	3.3	460/3/60	1/125	1,550	HORIZ.	UHEC-03	
CS-UH-00-5	1	ENVAC ROOM 00.42	400	–	11,263	60	86	–	–	–	–	3.3	460/3/60	1/125	1,550	HORIZ.	UHEC-03	
CS-UH-00-10 & CS-UH-00-11	2	TOILETS 00.22 & 00.23	500	–	26,000	55	103	1.5	180	140	–	–	115/1/60	1/125	1,550	HORIZ.	FF-H-04	RECESSED VERTICAL CABINET
CS-UH-00-12	2	EXIT A X.A	500	1,550	11,800	60	82	.75	180	140	–	–	115/1/60	16W	1,550	HORIZ.	S-A18	CABINET
CS-UH-00-13	1	STORAGE 00.27	500	1,550	11,800	60	82	.75	180	140	–	–	115/1/60	16W	1,550	HORIZ.	S-A18	CABINET
CS-UH-00-7	1	REST ROOM 00.38	300	–	10,239	55	86	–	–	–	–	1.0/3.0	460/3/60	1/125	1,550	VERTICAL	FF-H-02	RECESSED VERTICAL CABINET
CS-UH-00-8 CS-UH-00-14 CS-UH-00-15	3	SEE PLAN	300	–	10,239	55	86	–	–	–	–	1.0/3.0	460/3/60	1/125	1,550	VERTICAL	FF-H-02	RECESSED VERTICAL CABINET
CS-UH-1-1	1	STAIR C	900	1,000	28,000	60	90	1.5	180	140	–	–	115/1/60	1/6	1,550	HORIZ.	S-60	CABINET
CS-UH-1-2	1	STAIR E	900	1,000	28,000	60	90	1.5	180	140	–	–	115/1/60	1/6	1,550	HORIZ.	S-60	CABINET
CS-UH-1-3 THRU CS-UH-1-5	3	MECHANICAL CHASE/01.CHASE	1,000	1,550	28,000	60	85	1.5	180	140	–	–	115/1/60	1/20	1,550	HORIZ.	S-60	CABINET
CS-UH-3-1 & CS-UH-3-2	2	MECHANICAL ROOM 03.51	900	1,000	28,000	60	90	1.5	180	140	–	–	115/1/60	1/20	1,000	HORIZ.	S-60	
CS-UH-3-3	1	MECHANICAL ROOM 03.51	500	1,550	12,000	60	82	.75	180	140	–	–	115/1/60	16W	1,550	HORIZ.	S-A18	
CS-UH-5-1 & CS-UH-5-2	2	MECHANICAL RM. 05.52	750	900	20,000	60	85	1.0	180	140	–	–	115/1/60	1/20	1,000	HORIZ.	S-A36	
CS-UH-5-3 THRU CS-UH-5-6	4	MECHANICAL RM. 05.54	500	1,550	12,000	60	82	.75	180	140	–	–	115/1/60	16W	1,550	HORIZ.	S-A18	
CS-UH-5-7 & CS-UH-5-8	2	MECHANICAL RM. 05.57	750	900	20,000	60	85	1.0	180	140	–	–	115/1/60	1/20	1,000	HORIZ.	S-A36	
CS-UH-6-1 & CS-UH-6-2	2	MECHANICAL RM. 06.61	580	1,550	16,000	60	85	1.0	180	140	–	–	115/1/60	25W	1,550	HORIZ.	S-A25	
CS-UH-7-1 & CS-UH-7-2	2	MECHANICAL RM. 07.51	750	900	20,000	60	85	1.0	180	140	–	–	115/1/60	1/20	1,000	HORIZ.	S-A36	
CS-UH-7-3 THRU CS-UH-7-5	3	MECHANICAL RM. 07.64	750	900	20,000	60	85	1.0	180	140	–	–	115/1/60	1/20	1,000	HORIZ.	S-A36	
CS-UH-7-6 & CS-UH-7-7	2	MECHANICAL RM. 07.56	900	1,000	28,000	60	90	1.5	180	140	–	–	115/1/60	1/20	1,000	HORIZ.	S-60	
CS-UH-9-1 THRU CS-UH-9-3	3	MECHANICAL RM. 09.80	580	1,550	16,000	60	85	1.0	180	140	–	–	115/1/60	25W	1,550	HORIZ.	S-A25	
CS-UH-9-4 THRU CS-UH-9-6	3	MECHANICAL RM. 09.51	580	1,550	16,000	60	85	1.0	180	140	–	–	115/1/60	25W	1,550	HORIZ.	S-A25	
CS-UH-S-1	1	MECHANICAL RM. MD.37	400	–	17,065	50	90	–	–	–	–	5	460/3/60	1/125	1,550	HORIZ.	UHEC-05	

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NOTE:

1. UNIT HEATERS SHALL BE PROVIDED WITH UNIT MOUNTED THERMOSTATS UNLESS OTHERWISE NOTED ON PLANS.

SOUND TRAPS

(SECTION 233319) (IAC AS STD.)

TRAP No.	LOCATION	SERVICE	CFM	TRAP SIZE W x H x L (IN. x IN. x FT)	MAX. PRESSURE DROP (IN. H2O)	SPECIFICATION TYPE (IAC. MODEL No.)	REMARKS
CS-ST-3-1	03 LEVEL	CS-HV-3-1	6,000	48x48x36	.05	3ES	
CS-ST-3-2	03 LEVEL	CS-HV-3-2	2,500	36x48x36	.05	3ES	
CS-ST-3-3	03 LEVEL	CS-F-3-2	5,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-3-4 & CS-ST-3-5	03 LEVEL	CS-F-3-3	25,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-3-6	03 LEVEL DISCHARGE	CS-F-3-4	1,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-3-7	03 LEVEL	CS-ACS-5-1 DISCHARGE	30,000	60x54x36	.43	3ES	
CS-ST-5-1	05 LEVEL	CS-F-5-1	50,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-5-2	05 LEVEL SUCTION	CS-F-5-1 SUCTION	50,000	108x48x36	.37	3ES	
CS-ST-5-3 & CS-ST-5-4	05 LEVEL	CS-F-5-2	35,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-5-5	05 LEVEL	CS-F-5-3 DISCHARGE	5,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-5-6 & CS-ST-5-7	05 LEVEL	CS-F-5-5	5,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-5-8	05 LEVEL	CS-F-5-6 DISCHARGE	6,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-5-9	05 LEVEL	CS-F-5-7 DISCHARGE	5,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-5-10	05 LEVEL	CS-F-5-8 DISCHARGE	18,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-5-11	05 LEVEL	CS-F-5-11 DISCHARGE	12,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-5-12	05 LEVEL	CS-ACS-5-2 DISCHARGE	44,000	110x64x60	.24	5ES	
CS-ST-5-13	05 LEVEL	CS-ACS-5-3 SUPPLY AIR	300	12x8x60	.06	5ES	
CS-ST-6-1 & CS-ST-6-2	06 LEVEL	CS-F-6-1	5,400	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-6-3 & CS-ST-6-4	06 LEVEL	CS-F-6-2	9,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-6-5 & CS-ST-6-6	06 LEVEL	CS-F-6-3	3,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-6-7	06 LEVEL	CS-F-6-5	500	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-6-8	06 LEVEL	CS-FPB-6-1	900	20x12x36	.08	3ES	
CS-ST-6-9	06 LEVEL	CS-FPB-6-2	1,500	24x14x36	.11	3ES	
CS-ST-6-10	06 LEVEL	CS-FPB-6-3	1,345	24x14x36	.11	3ES	
CS-ST-6-11	06 LEVEL	CS-FPB-6-4	900	20x12x36	.08	3ES	
CS-ST-6-12	06 LEVEL	CS-FPB-6-5	900	20x12x36	.08	3ES	
CS-ST-7-1	07 LEVEL	CS-F-7-1 DISCHARGE	5,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-7-2 & CS-ST-7-3	07 LEVEL	CS-F-7-2	50,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-7-4	07 LEVEL	CS-F-7-3 DISCHARGE	17,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-7-5	07 LEVEL	CS-F-7-4 DISCHARGE	3,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-7-6	07 LEVEL	CS-ACS-7-1 DISCHARGE	25,000	84x60x60	.14	5ES	
CS-ST-7-7 & CS-ST-7-8	07 LEVEL	CS-F-7-7	50,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-7-9	07 LEVEL	CS-F-7-8	3,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-7-10	07 LEVEL	CS-ACS-7-2 RETURN	50,000	102x72x36	.22	3ES	
CS-ST-7-11	07 LEVEL	CS-ACS-7-2 DISCHARGE	36,000	84x60x60	.29	5ES	
CS-ST-9-1 & CS-ST-9-2	09 LEVEL	CS-F-9-1	10,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-9-3	09 LEVEL	CS-F-9-2 DISCHARGE	3,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-9-4	09 LEVEL	CS-F-9-3 DISCHARGE	18,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-9-5 & CS-ST-9-6	09 LEVEL	CS-F-9-4	20,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-9-7	09 LEVEL	CS-F-9-5 DISCHARGE	3,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-9-8	09 LEVEL	CS-F-9-7 DISCHARGE	15,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-67-1	67 LEVEL	CS-F-67-1 DISCHARGE	1,500	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-67-2	67 LEVEL	CS-F-67-2 DISCHARGE	2,500	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-S-1 & CS-ST-S-2	DEPLOYED SHED MER	CS-F-S-1	50,000	SIZE TO FIT FAN	.05	D DUCT	
CS-ST-S-3 & CS-ST-S-4	DEPLOYED SHED MER	CS-F-S-2	50,000	SIZE TO FIT FAN	.05	D DUCT	

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SQUARE CEILING SUPPLY DIFFUSERS

(TITUS "OMNI-NT" AS STANDARD)

CFM RANGE (4 WAY)	CFM RANGE (3 WAY)	CFM RANGE (2 WAY)	NECK SIZE	FACE SIZE
0 – 200	0 – 150	0 – 100	8"ø	24x24
201 – 380	151 – 290	101 – 190	10"ø	24x24
381 – 470	291 – 325	191 – 235	12"ø	24X24
471 – 640	326 – 470	236 – 320	14"ø	24X24
641 – 735	471 – 550	321 – 365	15"ø	24X24

NOTES:

1. FRAME SHALL BE SUITABLE FOR SPECIFIED CEILING CONSTRUCTION.
2. NECKS SHALL BE BLANKED OFF IN FIELD WHERE PLANS INDICATE OTHER THAN 4-WAY.
3. ALL CEILING DIFFUSERS LOCATED WITHIN GYPSUM BOARD HUNG CEILING SHALL BE EQUIPPED WITH VOLUME CONTROLS OPERABLE THRU FACE OF DIFFUSER.

CEILING RETURN GRILLES AND REGISTERS

(TITUS AS STANDARD)

NON – DUCTED: CFM RANGE	SIZE	FACE SIZE	DUCTED: CFM RANGE	SIZE	FACE SIZE
0-125	10 x 10	12 x 12	250	10 x 10	12 x 12
0-325	10 x 22	12 x 24	600	10 x 22	12 x 24
0-700	22 x 22	24 x 24	1200	22 x 22	24 x 24

NOTES:

1. ALL CEILING REGISTERS SHALL BE PROVIDED WITH OPPOSED BLADE DAMPERS.
2. ALL GRILLES AND REGISTERS LOCATED IN LAY-IN TILE CEILINGS SHALL BE PROVIDED WITH BORDER TYPES SUITABLE FOR LAY-IN PANEL MOUNTING. ALL GRILLES & REGISTERS LOCATED IN GYPSUM BOARD OR CONCEALED SPLINE CEILINGS SHALL BE PROVIDED WITH BORDER TYPES SUITABLE FOR SURFACE MOUNTING. REFER TO PLANS FOR SIZES.
3. ALL NON-DUCTED RETURN GRILLES SHALL BE PROVIDED WITH LIGHT SHIELDS.
4. THE ABOVE SCHEDULED GRILLES AND REGISTERS ARE FURNISHED AND INSTALLED, UNDER THIS SECTION OF THE SPECIFICATIONS.

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GENERAL NOTES

1. MECHANICAL HEATING AND COOLING EQUIPMENT SHALL MEET THE MINIMUM EFFICIENCY REQUIREMENTS OF TABLES 503.2.3(1), 503.2.3(1), 503.2.3(3), 503.2.3(4), 503.2.3(5), 503.2.3(6) AND 503.2.3(7) IN SECTION 503.2.3 OF THE 2011 NYC ENERGY CONSERVATION CODE.
2. REFER TO REFERENCE SEQUENCE OF OPERATION SPECIFICATION FOR ADDITIONAL INFORMATION REGARDING THE BUILDING AUTOMATED CONTROLS SYSTEM.
3. DEMAND CONTROL VENTILATION SHALL BE PROVIDED FOR SPACES LARGER THAN 500 S.F. WITH AN OCCUPANT LOAD OF 25 PEOPLE/1000 S.F. AND SERVED BY AN AIR-SIDE ECONOMIZER, OUTDOOR AIR DAMPER, OR OUTDOOR AIRFLOW GREATER THAN 3,000 CFM. FOR FURTHER INFORMATION REGARDING DEMAND VENTILATION CONTROLS, PLEASE REFER TO REFERENCE SEQUENCE OF OPERATION SPECIFICATION.
4. AIR DUCTS AND PLENUMS TO BE INSULATED WITH A MINIMUM OF R-5 INSULATION IN UNCONDITIONED SPACES AND A MINIMUM OF R-8 INSULATION WHEN OUTSIDE THE BUILDING. ALL PIPING SHALL BE THERMALLY INSULATED IN ACCORDANCE WITH NYECC 2011, TABLE 503.2.8. REFER TO INSULATION TABLE ON THIS SHEET FOR ADDITIONAL INFORMATION.

Service	Pipe Size	Temp	Thickness - Type
Hot Water Heating in Fan Coil Unit and Convector Enclosures	All		Uninsulated
Primary Hot Water, Hot Water Radiation and Hot Water Reheat less than 200°F	1-1/4 inches and smaller	450°F	1-1/2 inches Fiberglass
Primary Hot Water, Hot Water Radiation and Hot Water Reheat less than 200°F	1-1/2 inches and larger	450°F	2 inches Fiberglass
Heat Recovery less than 140°F	1-1/4 inches and smaller	450°F	1/2 inch Fiberglass or 1 inch EPDM
Heat Recovery less than 140°F	1 inch to 3 inches	450°F	1 inch Fiberglass or 1 inch EPDM
Heat Recovery less than 140°F	4 inches and larger	450°F	2 inch Fiberglass
Primary Chilled Water and Secondary Chilled Water less than 55°F	All		1-1/2 inches Fiberglass
Primary and Secondary Condenser Water	All		Uninsulated
Primary Condenser Water Exposed Outdoors	All		2 inches Fiberglass
Fresh Water Makeup	All		1 inch Fiberglass or 1 inch EPDM
Condensation Drains - Risers, Mains and Branches	All		1/2 inch Fiberglass or 1 inch EPDM

5. ALL HYDRONIC SYSTEMS WITHIN THIS SCOPE OF WORK OF MINIMUM 300,000 BTUH DESIGN OUTPUT CAPACITY SHALL INCLUDE CONTROLS THAT MEET THE REQUIREMENTS OF SECTION 503.4.3 OF THE NYC ENERGY CONSERVATION CODE 2011.
6. ELECTRIC COGENERATION PLAN (100 KW RECIPROCATING ENGINE: INVERDE 100)
   - ELECTRIC GENERATION CAPACITY = 100 KW
   - ELECTRIC GENERATION EFFICIENCY = 27.03%
   - THERMAL EFFICIENCY = 55.43%
   - HEAT RECOVERED FROM COGENERATION PLANT IS USED FOR SERVICE HOT WATER HEATING AND SPACE HEATING.
   - THIS SYSTEM IS RUN ONLY DURING WINTER MONTHS (FROM OCTOBER 1ST THRU APRIL 30TH).
   - THE COGENERATION ELECTRICITY IS BEING UTILIZED FOR THE WHOLE BUILDING IN THE ENERGY MODEL CREATED BY THE ENERGY CONSULTANT.

COOLING COIL CONDENSATE PUMPS

(SECTION 232123) (LITILE GIANT AND WEINMAN AS STD.)

PUMP No.	LOCATION	SERVICE	TOTAL COOLING COIL CONDENSATE (GPM)	GPM PER PUMP	SUCTION TEMP. (°F)	DISCHARGE PRESS. (PSIG) PER PUMP	MOTOR R.P.M.	RECEIVER (CONST.)	MIN. MOTOR HP PER PUMP	ELECTRICAL: VOLTS	PHASE	Hz	PUMP TYPE	RECEIVER SIZE (GAL.)	MIN. INLET SIZE (IN.)	MODEL No.	REMARKS
–	ALL	CHILLED WATER COOLED AC UNIT / FCU'S	–	3.5	–	4	–	–	1/18	115	1	60	SIMPLEX	1	–	VCL-24ULS 553201	
CS-CP-S-1 THRU CS-CP-S-4	DEPLOYED SHED DECK	CS-ACS-S-1 THRU 4 CONDENSATE	–	15	–	15	3,500	CAST IRON	1/2	480	3	60	DUPLEX	20	–	WEINMAN D20C-4ACV3	

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NOTES:

1. COLD CONDENSATE PUMPS ARE TO BE PLENUM RATED.

ROUND CEILING SUPPLY DIFFUSERS

(TITUS "TMR" AS STANDARD) (SECTION 233713)

CFM RANGE (4 WAY)	CFM RANGE (3 WAY)	CFM RANGE (2 WAY)	NECK SIZE	FACE SIZE
0 – 140	0 – 110	–	6"ø	11-1/8"ø
141 – 210	111 – 165	0 –140	8"ø	14-3/4"ø
211 – 300	166 – 265	141 – 210	10"ø	18-1/4"ø
301 – 640	266 – 470	211 – 265	12"ø	22ø

NOTES:

1. FRAME SHALL BE SUITABLE FOR SPECIFIED CEILING CONSTRUCTION.
2. NECKS SHALL BE BLANKED OFF IN FIELD WHERE PLANS INDICATE OTHER THAN FOUR WAY.
3. ALL CEILING DIFFUSERS LOCATED WITHIN GYPSUM BOARD HUNG CEILING SHALL BE EQUIPPED WITH VOLUME CONTROLS OPERABLE THROUGH FACE OF DIFFUSER.

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

PROFESSIONAL'S STATEMENT

TO THE BEST OF OUR KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE.

BUILDING DEPARTMENT 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.

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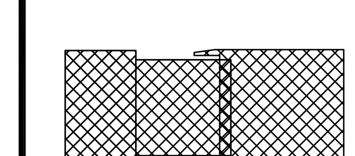
KEY PLAN



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M-502.01

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M-502.01

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(SECTION 23 34 00)

EXHAUST AND VENTILATION FANS

(TWIN CITY/HOWDEN AS STD.)

FAN No.	LOCATION	SERVICE	CFM	EXTERNAL STATIC PRESSURE (IN. H2O)	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	ON EMERGENCY POWER	VIBRATION BASE SPECIFICATION TYPE	VIBRATION BASE MIN. STATIC DEFLECTION (IN.)	CLASS	REMARKS
CS-F-C1-1	C1 LEVEL	MER EXHAUST/SX	3,500	3	1,509	–	9	2,703	CW	–	–	MIXED FLOW QCLB	135 A2	2.84	5	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-00-1	00 LEVEL	GUARD ROOM	500	.3	–	–	9	910	–	–	–	IN LINE TL	500S	.33	.5	–	–	115	1	60	N	–	–	–	CONTROLLED VIA THERMOSTAT
CS-F-1-1	01 LEVEL	ELECTRICAL ROOM 01.80	500	.3	–	–	9	910	–	–	–	IN LINE TL	500S	.33	.5	–	–	115	1	60	N	–	–	–	CONTROLLED VIA THERMOSTAT
CS-F-1-2	01 LEVEL	MER EXHAUST	220	1.5	–	–	9	910	–	–	–	IN LINE TL	500S	.33	.5	–	–	115	1	60	N	–	–	–	CONTROLLED VIA THERMOSTAT
CS-F-3-1	03 LEVEL	ELECTRICAL ROOM 03.71	850	.3	–	–	9	682	–	–	–	IN LINE TL	2000S	.28	.5	–	–	115	1	60	N	–	–	–	CONTROLLED VIA THERMOSTAT
CS-F-3-2	03 LEVEL	MER EXHAUST/SX	5,000	1.5	–	–	9	1,452	CW	–	–	MIXED FLOW QCLB	182 A2	1.9	3	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-3-3	03 LEVEL	LOBBY SPILL/SX	25,000	3.25	2,992	–	4	1,770	–	–	40	VANE AXIAL 100 JMG	21.4	19	25	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-3-4	03 LEVEL	WORKROOM EXHAUST	1,000	3	–	–	9	–	–	–	–	MIXED FLOW	–	.75	1	1,725	–	460	3	60	N	–	–	–	PROVIDE WITH VFD
CS-F-5-1	05 LEVEL	GALLERY 2 SPILL/SX	50,000	4	3,051	–	4	1,170	–	–	54	VANE AXIAL 140 JMG	1400 MM	46.9	60	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-5-2	05 LEVEL	GALLERY 1 SPILL/SX	35,000	3.25	2,165	–	4	1,170	–	–	42	VANE AXIAL 140 JMG	1400 MM	26	30	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-5-3	05 LEVEL	MER EXHAUST/SX	5,000	1.5	–	–	9	1,452	CW	–	–	MIXED FLOW QCLB	182 A2	1.9	3	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-5-4	05 LEVEL	ELECTRICAL ROOM 05.71	800	.3	–	–	9	812	–	–	–	IN LINE TL	1500R	.32	.5	–	–	115	1	60	N	–	–	–	CONTROLLED VIA THERMOSTAT
CS-F-5-5	05 LEVEL	CATERING PANTRY SPILL/SX	5,000	3.25	–	–	9	2,618	CW	–	–	MIXED FLOW QCLB	150 A2	4.2	5	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-5-6	05 LEVEL	LOADING DOCK EXHAUST/SX	6,000	1.5	–	–	9	1,312	CW	–	–	MIXED FLOW QCLB	200 A1	2.27	3	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-5-7	05 LEVEL	MER EXHAUST/SX	5,000	1.5	–	–	9	1,452	CW	–	–	MIXED FLOW QCLB	182 A2	1.9	3	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-5-8	05 LEVEL	STAIR F PRESSURIZATION	18,000	3	3,307	–	4	1,770	–	–	32	VANE AXIAL 80 JMG	800 MM	14.28	20	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-5-9	05 LEVEL	ELECTRICAL ROOM 05.42	325	.3	–	–	9	753	–	–	–	IN LINE TL	400S	.18	.25	–	–	115	1	60	N	–	–	–	CONTROLLED VIA THERMOSTAT
CS-F-5-10	05 LEVEL	GALLERY 2 SNORKEL EXHAUST	600	1.5	–	–	–	–	–	–	–	TUBULAR INLINE TSL	122	.39	.5	–	–	115	1	60	N	–	–	–	PROVIDE W/ VFD & CAR-MON SERIES TSR-P TUBING STORAGE REEL
CS-F-5-11	05 LEVEL	TOILET EXHAUST	12,000	4	–	–	9	1,246	CW	–	–	MIXED FLOW MX-P-1000	1,000 MM	11.3	15	1,725	–	460	3	60	N	–	–	–	PROVIDE WITH VFD
CS-F-6-1	06 LEVEL	6TH FL. BOH SPILL/SX	5,400	3	–	–	9	2,673	CW	–	–	MIXED FLOW QCLB	150 A2	4.33	5	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-6-2	06 LEVEL	8TH FLOOR OFFICE SPILL/SX	9,000	3	3,410	–	4	–	–	–	22	VANE AXIAL 50 JMG	500 MM	7.81	10	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-6-3	06 LEVEL	MER EXHAUST/SX	3,000	1.5	1,293	–	9	2,085	CW	–	–	MIXED FLOW OCLB	135 A1	1.29	1.5	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-6-4	06 LEVEL	ELECTRICAL ROOM 06.73	500	.3	–	–	9	910	–	–	–	IN LINE TL	500S	.33	.5	–	–	115	1	60	N	–	–	–	CONTROLLED VIA THERMOSTAT
CS-F-6-5	06 LEVEL	DRYER EXHAUST	500	.3	–	–	9	910	–	–	–	IN LINE TL	500S	.33	.5	–	–	115	1	60	N	–	–	–	CONTROLLED VIA THERMOSTAT
CS-F-7-1	07 LEVEL	CHILLER PLANT EXHAUST/SX	5,000	2.5	–	–	9	2,046	CW	–	–	MIXED FLOW QCLB	165 A2	3.14	5	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-7-2	07 LEVEL	GALLERY 3 WEST SPILL/SX	50,000	3.25	3,070	–	4	1,170	–	–	54	VANE AXIAL 140 JMG	1400 MM	38.9	50	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-7-3	07 LEVEL	GALLERY 3 MAKE-UP	17,000	3	3,150	–	4	1,770	–	–	32	VANE AXIAL 80 JMG	800 MM	13	15	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-7-4	07 LEVEL	MER EXHAUST/SX	3,000	3	–	–	9	3,018	CW	–	–	MIXED FLOW QCLB	122 A2	2.5	3	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-7-5	07 LEVEL	ELECTRICAL ROOM 07.71	500	.3	–	–	9	910	–	–	–	IN LINE TL	500S	.33	.5	1,725	–	115	1	60	N	–	–	–	CONTROLLED VIA THERMOSTAT
CS-F-7-6	07 LEVEL	GALLERY 3 EAST SPILL/SX	50,000	3.5	3,070	–	4	1,170	–	–	54	VANE AXIAL 140 JMG	1,400 MM	41.1	50	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-7-7	07 LEVEL	MER EXHAUST/SX	3,000	3	–	–	9	3,018	CW	–	–	MIXED FLOW QCLB	122 A2	2.5	3	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-8-1	08 LEVEL	ELECTRICAL ROOM 08.72	500	.3	–	–	9	910	–	–	–	IN LINE TL	500S	.33	.5	1,725	–	115	1	60	N	–	–	–	CONTROLLED VIA THERMOSTAT
CS-F-9-1	09 LEVEL	CAFE/BAR SPILL/SX	10,000	3.25	3,800	–	4	3,500	–	–	–	VANE AXIAL 56JM	560 MM	8.96	10	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-9-2	09 LEVEL	MER EXHAUST/SX	3,000	3	–	–	9	3,018	CW	–	–	MIXED FLOW QCLB	122 A2	2.5	3	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-9-3	09 LEVEL	STAIR E PRESSURIZATION	18,000	3.5	2,087	–	4	1,770	–	–	40	VANE AXIAL 100 JMG	1,000 MM	17.4	20	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-9-4	09 LEVEL	GALLERY 4 SPILL/SX	20,000	3.25	2,441	–	4	1,770	–	–	40	VANE AXIAL 100 JMG	1,000 MM	17.2	20	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-9-5	09 LEVEL	MER EXHAUST/SX	3,000	3	–	–	9	3,018	CW	–	–	MIXED FLOW QCLB	122 A2	2.5	3	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-9-6	09 LEVEL	STAIR D PRESSURIZATION	18,000	3.5	2,087	–	4	1,770	–	–	40	VANE AXIAL 100 JMG	1,000 MM	17.4	20	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-9-7	09 LEVEL	STAIR C PRESSURIZATION	18,000	3	3,307	–	4	1,770	–	–	32	VANE AXIAL 80 JMG	800 MM	14.8	20	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-9-8	09 LEVEL	ELECTRICAL ROOM 09.71	800	.3	–	–	9	682	–	–	–	IN LINE TL	2,000S	.28	.5	–	–	115	1	60	N	–	–	–	CONTROLLED VIA THERMOSTAT
CS-F-S-1 CS-F-S-2	SHED MECHANICAL DECK	DEPLOYED SHED SMOKE EXHAUST	50,000	3	3,051	–	4	1,170	–	–	54	VANE AXIAL 140 JMG	1400 MM	34	40	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-67-1	67 LEVEL	MER EXHAUST	1,500	1.5	1,293	–	9	2,085	CW	–	–	MIXED FLOW QCLB	135 A1	1.29	1.5	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD
CS-F-69-1	69 LEVEL	MER EXHAUST	2,000	1.5	1,293	–	9	2,085	CW	–	–	MIXED FLOW QCLB	135 A1	1.29	1.5	1,725	–	460	3	60	Y	–	–	–	PROVIDE WITH VFD

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NOTES:

1. ALL AXIAL FANS WITH VELOCITY GREATER THAN 3500 FPM AND/OR 3.0 INCHES TOTAL PRESSURE, REQUIRE THRUST RESTRAINTS.
2. ALL VANE AXIAL FANS GREATER THAN 42 INCH DIAMETER TO BE PROVIDED WITH CLAM SHELL SPLIT HOUSING.
3. ALL VANE AXIAL FANS ARE TO BE PROVIDED WITH MOUNTING CLIPS AT CENTERLINE OF FAN BARREL TO SUPPORT VIBRATION ISOLATORS AND THRUST RESTRAINTS.
4. THE VIBRATION ISOLATION APPLICATION NEEDS TO TAKE INTO ACCOUNT THAT A CONE MOUNTED SOUND TRAP IS AN EXTENSION OF THE FAN SYSTEM AND WILL BE MOVING BETWEEN THE FLEXIBLE CONNECTIONS AS ONE UNIT. WHERE THE FAN IS SUSPENDED FROM STRUCTURE ABOVE, THE ROD TYPE ISOLATORS ARE THE SAME FOR THE FAN & SOUND TRAP. WHERE THE FAN IS FLOOR MOUNTED, THE ISOLATORS ARE THE SAME FOR THE FAN AND SOUND TRAP. AND CAN BE MOUNTED DIRECTLY BELOW THE TRAP OR IN A CENTER LINE SIMILAR TO THE FAN ARRANGEMENT.
5. FLOW SENSORS AND PIEZOMETER RINGS FOR ALL FANS SHALL BE PROVIDED AND WILL BE TIED INTO A COMMON HIGH/LOW SENSING POINT.

PROFESSIONAL'S STATEMENT	BUILDING DEPARTMENT NOTE
TO THE BEST OF OUR KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE.	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.

(SECTION 23 82 19)

FAN COIL UNITS

(INTERNATIONAL AS STD.)

FAN COIL NUMBER	QUANTITY	LOCATION	AIR CAPACITY (CFM)	UNIT TOTAL STATIC PRESSURE (IN H20 W.C.)	EXTERNAL STATIC PRESSURE (IN H20 W.C.)	MEDIUM SPEED FAN R.P.M.	COOLING CAPACITY AT MEDIUM SPEED: TOTAL CAPACITY (BTU/HR)	SENS. COOLING CAPACITY (BTU/HR)	ENTERING TEMP. (F) DB	ENTERING TEMP. (F) WB	ENTERING WATER TEMP. (F)	LEAVING WATER TEMP. (F)	COOLING WATER CAPACITY (GPM)	MAXIMUM WATER PRESS. DROP (FT H20)	No. OF ROWS	HEATING CAPACITY: TOTAL CAPACITY (BTU/HR)	ENTERING AIR TEMP. (F)	LEAVING AIR TEMP. (F)	ENTERING WATER TEMP. (F)	LEAVING AIR TEMP. (F)	HEATING WATER CAPACITY (GPM)	MAXIMUM WATER PRESS. DROP (FT H20)	MOTOR R.P.M.	MOTOR HP	VOLTS/PHASE/FREQ.	MODEL No.	REMARKS
CS-FCU-00-1	1	SECURITY ROOM	1,000	–	.3	–	28,700	27,000	75	62.5	42	58	5	1.0	4	38,000	60		180	140	2.6	2.5	–	3/4	115/1/60	MGY-14 (VERTICAL)	SEE NOTES 1 & 2
CS-FCU-00-2 CS-FCU-00-3	2	LOBBY ENTRANCE	2,800	–	.3	–	–	–	–	–	–		–	–	–	91,000	60		180	140	7.0	1.0	–	1.5	277/1/60	HBD-30	
CS-FCU-00-4	1	TOILETS	1,200	–	.5	–	25,300	26,135	75	62.5	42	58	3.3	1.9	6	–	–	–	–	–	–	–	–	1/2	277/1/60	VBA-12	
CS-FCU-1-1	1	VESTIBULE 01.00	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		–	–	–	–	277/1/60	VEY-08	
CS-FCU-1-2 THRU CS-FCU-1-4	3	NORTH FACADE	235	–	0.00	–	3,723	3,723	75	62.5	42	58	0.5	0.7	2	13,422	–	–	180	140	0.9	1.5	–	–	115/1/60	STY-03	
CS-FCU-1-5	1	CS STORAGE 01.04	1,335	–	.3	–	25,981	25,291	75	62.5	42	58	3.6	0.6	6	–	–	–	–	–	–	–	–	–	277/1/60	VEY-14	
CS-FCU-1-6 THRU CS-FCU-1-9	4	LEVEL 01M LOBBY	1,350	–	.3	–	27,097	27,082	72	60	42	58	3.4	1.4	6	–	–	–	–	–	–	–	–	1/2	277/1/60	VBA-16	
CS-FCU-1-10	1	FLEX SPACE 01.07	700	–	.3	–	15,090	13,954	75	62.5	42	58	1.9	0.5	6	–	–	–	–	–	–	–	–	–	277/1/60	VEY-10	
CS-FCU-1-11	1	FLEX SPACE 01.08	800	–	.6	–	19,343	18,010	72	60	42	58	2.4	1.4	6	–	–	–	–	–	–	–	–	–	277/1/60	VBA-08	
CS-FCU-1-12	1	FLEX SPACE 01.09	1,335	–	.6	–	21,540	21,540	72	60	42	58	2.8	0.6	6	–	–	–	–	–	–	–	–	–	277/1/60	VBA-10	
CS-FCU-1-13	1	SOUTH CORRIDOR & TOILETS	1,510	–	.3	–	34,935	30,990	75	62.5	42	58	4.4	1.4	6	–	–	–	–	–	–	–	–	–	277/1/60	VEY-18	
CS-FCU-1-14	1	CS STORAGE 01.48 / CORRIDOR	1,500	–	.6	–	32,156	32,116	75	62.5	42	58	4.0	1.0	6	–	–	–	–	–	–	–	–	1/2	277/1/60	VBA-16	
CS-FCU-1-15	1	SEE PLAN	1,200	–	.6	–	26,135	25,300	75	62.5	42	58	3.3	1.9	6	–	–	–	–	–	–	–	–	1/2	277/1/60	VBA-12	
CS-FCU-1-16	1	WORK STATIONS 01.31	985	–	.3	–	23,111	20,331	75	62.5	42	58	2.9	1.4	6	–	–	–	–	–	–	–	–	–	277/1/60	VEY-12	
CS-FCU-1-17	1	SEE PLAN	985	–	.3	–	23,111	20,331	75	62.5	42	58	2.9	1.4	6	–	–	–	–	–	–	–	–	–	277/1/60	VEY-12	
CS-FCU-2-1 & CS-FCU-2-2	2	ENTRANCE VESTIBULE	624	–	.25	–	–	–	–	–	–	–	–	–	–	41,960	50	110	180	140	2.1	2.0	–	1/5	115/1/60	FHY-10	
CS-FCU-3-1 & CS-FCU-3-2	2	STAIR E & STAIR D	600	–	.25	–	18,100	13,700	75	62.5	42	58	2.0	1.0	2	–	–	–	–	–	–	–	–	1/5	277/1/60	HPY-06	
CS-FCU-5-1 & CS-FCU-5-2	2	STAIR E & STAIR D	600	–	.25	–	18,100	13,700	75	62.5	42	58	2.0	1.0	2	–	–	–	–	–	–	–	–	1/5	277/1/60	HPY-06	
CS-FCU-6-1	1	SEE PLAN	2,000	–	.5	–	41,120	41,075	75	62.5	42	58	5.1	1.3	6	–	–	–	–	–	–	–	–	–	277/1/60	VBA-20	
CS-FCU-6-2 & CS-FCU-6-3	2	SEE PLAN	1,000	–	.5	–	22,540	21,530	75	62.5	42	58	2.8	1.4	6	–	–	–	–	–	–	–	–	1/2	277/1/60	VBA-10	
CS-FCU-7-1 & CS-FCU-7-2	2	STAIR E & STAIR D	600	–	.25	–	18,100	13,700	75	62.5	42	58	2.0	1.0	2	–	–	–	–	–	–	–	–	1/5	277/1/60	HPY-06	

NOTES:

1. PROVIDE UNIT WITH THE FOLLOWING OPTIONS/FEATURES:
   a. ECM MOTOR WITH POTENTIOMETER CONTROL BOARD.
   b. RETURN AIR PANEL
   c. 1" PLEATED MERV 13 FILTERS.
   d. CONDENSATE OVER FLOW SWITCH.
2. MOUNT UNIT IN DRIP PAN WITH CONDENSATE PUMP AND WALL DETECTION. CONDENSATE PUMP SHALL BE LITTLE GIANT VCL-24ULS OR AS APPROVED.
3. PROVIDE UNIT WITH SPEED CONTROLLER, REAR RETURN AIR, JUNCTION BOX ON SAME SIDE AS PIPING CONNECTIONS (RIGHT SIDE).
4. CONTROL VALVES FOR CONTROL OF GROUPS OF FAN COIL UNITS SHALL BE AS SPECIFIED UNDER THE BATC SECTION OF THE SPECIFICATIONS.

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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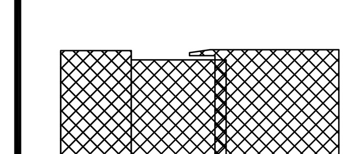
KEY PLAN



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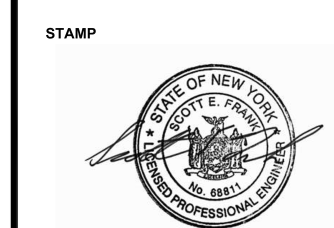

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PUMPS

(SECTION 23 21 23) (PACO AND BELL & GOSSETT AS STD)

PUMP No.	LOCATION	SERVICE	GPM	TOTAL DYNAMIC HEAD (FT H2O)	% EFFICIENCY	SHUT-OFF HEAD (FT H2O)	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
CS-P-1-1 & CS-P-1-2	01 LEVEL	HOT WATER RADIANT FLOOR	140	50	64	60	7.99	2.96	5	1,775	460	3	60	150	IN LINE 25953 VL	–	–	–	PROVIDED WITH VFD (1) IS STDBY 40% PROPYLENE GLYCOL
CS-P-3-1	03 LEVEL	FREEZE PROTECTION CS-ACS-3-1	35	20	58	18	4.25	.3	.5	1,750	460	3	60	150	IN LINE 60x1.5x5.25	–	–	–	CONSTANT SPEED
CS-P-3-2	03 LEVEL	FREEZE PROTECTION CS-HV-3-1	20	20	–	–	–	.13	.25	–	115	1	60	150	IN LINE	–	–	–	CONSTANT SPEED
CS-P-3-3	03 LEVEL	FREEZE PROTECTION CS-HV-3-2	9	20	–	–	–	.09	.25	–	115	1	60	150	IN LINE	–	–	–	CONSTANT SPEED
CS-P-5-1	05 LEVEL	FREEZE PROTECTION CS-ACS-5-1	60	20	62.5	19	4.25	.49	.75	1,750	460	3	60	150	IN LINE 60x2x5.25	–	–	–	CONSTANT SPEED
CS-P-5-2	05 LEVEL	FREEZE PROTECTION CS-ACS-5-2	45	20	59.5	19	4.375	.35	.50	1,750	460	3	60	150	IN LINE 902AA	–	–	–	CONSTANT SPEED
CS-P-5-3	05 LEVEL	FREEZE PROTECTION CS-ACS-5-3	7	20	–	–	–	.07	.25	–	115	1	60	150	IN LINE	–	–	–	CONSTANT SPEED
CS-P-5-4	05 LEVEL	FREEZE PROTECTION CS-ACS-5-4	10	20	–	–	–	.09	.25	–	115	1	60	150	IN LINE	–	–	–	CONSTANT SPEED
CS-P-5-5 & CS-P-5-6	05 LEVEL	SECONDARY CONDENSER WATER	300	100	68	108	10.42	11.13	15	1,760	460	3	60	150	END SUCTION 30121LF	–	–	–	PROVIDED WITH VFD (1) IS STDBY
CS-P-5-7 & CS-P-5-8	05 LEVEL	PRIMARY CONDENSER	300	160	73.5	198	6.66	16.5	20	3,530	460	3	60	400	IN LINE 25709VL	–	–	–	PROVIDED WITH VFD (1) IS STDBY
CS-P-5-9 & CS-P-5-10	05 LEVEL	DOMESTIC WATER HEATING	85	60	57.7	74.6	8.37	2.23	3	1,765	460	3	60	150	IN LINE 20955VL	–	–	–	PROVIDED WITH VFD (1) IS STDBY
CS-P-5-11	05 LEVEL	CO-GEN HEAT RECOVERY	50	60	50.25	65	8.0	1.53	3	1,750	460	3	60	150	IN LINE SERIES 80 1.5x1.5x9.5	–	–	–	PROVIDED WITH VFD
CS-P-6-1	06 LEVEL	FREEZE PROTECTION CS-ACS-6-2	8	20	–	–	–	.07	.25	–	115	1	60	150	IN LINE	–	–	–	CONSTANT SPEED
CS-P-6-2	06 LEVEL	FREEZE PROTECTION CS-ACS-6-1	15	20	–	–	–	.07	.25	–	115	1	60	150	IN LINE	–	–	–	CONSTANT SPEED
CS-P-7-1 THRU CS-P-7-3	07 LEVEL	PRIMARY CONDENSER WATER	1,000	160	81.9	180	12.5	49.5	75	1,750	460	3	60	400	HORIZONTAL SPLIT CASE HSG-4x6x14A	–	–	–	PROVIDED WITH VFD (1) IS STDBY
CS-P-7-4 THRU CS-P-7-6	07 LEVEL	CHILLED WATER	750	120	78.9	138	11.14	28.8	40	1,780	460	3	60	150	HORIZONTAL SPLIT CASE 4012-7/8 KP	–	–	–	PROVIDED WITH VFD (1) IS STDBY
CS-P-7-7 & CS-P-7-8	07 LEVEL	CS-ACS HOT WATER	500	120	78.8	134.7	11.0	19.2	25	1,780	460	3	60	150	END SUCTION 30127 LF	–	–	–	PROVIDED WITH VFD (1) IS STDBY
CS-P-7-9 & CS-P-7-10	07 LEVEL	FIN TUBE HOT WATER	225	100	73.4	118	10.5	7.9	10	1,750	460	3	60	150	END SUCTION SERIES E 1510-2EB	–	–	–	PROVIDED WITH VFD (1) IS STDBY
CS-P-7-11	07 LEVEL	FREEZE PROTECTION CS-HV-7-1	20	20	–	–	–	.13	.25	–	115	1	60	150	IN LINE	–	–	–	CONSTANT SPEED
CS-P-7-12	07 LEVEL	FREEZE PROTECTION CS-ACS-7-1	35	20	53.8	20	4.5	.33	.50	1,750	460	3	60	150	IN LINE 901.5 AA	–	–	–	CONSTANT SPEED
CS-P-7-13	07 LEVEL	FREEZE PROTECTION CS-ACS-7-2	52	20	61.6	20	4.5	.41	.75	1,750	460	3	60	150	IN LINE 902 AA	–	–	–	CONSTANT SPEED
CS-P-7-14	07 LEVEL	CO-GEN HEAT RECOVERY	50	60	50.75	65	8.0	1.53	3	1,750	460	3	60	150	IN LINE SERIES 80 1.5x1.5x9.5	–	–	–	PROVIDE WITH VFD
CS-P-9-1	09 LEVEL	FREEZE PROTECTION CS-ACS-9-1	15	20	–	–	–	.13	.25	–	115	1	60	150	IN-LINE	–	–	–	CONSTANT SPEED
CS-P-9-2	09 LEVEL	FREEZE PROTECTION CS-ACS-9-2	30	20	47.8	25	4.5	.28	.5	1,750	460	3	60	150	IN LINE 901.25 AA	–	–	–	CONSTANT SPEED
CS-P-S-1 & CS-P-S-2	SHED THEATRICAL DECK	HOT WATER	120	60	59	71	8.06	3.18	5	1,775	460	3	60	150	IN LINE 20959VL	–	–	–	40% PROPYLENE GLYCOL PROVIDED WITH VFD (1) IS STDBY
CS-P-S-3 & CS-P-S-4	SHED THEATRICAL DECK	CHILLED WATER	320	60	74.3	69	8.14	6.75	10	1,775	460	3	60	150	IN LINE 40957VL	–	–	–	40% PROPYLENE GLYCOL PROVIDED WITH VFD (1) IS STDBY
CS-P-S-5 THRU CS-P-S-8	SHED THEATRICAL DECK	FREEZE PROTECTION	30	20	53.5	20	4.5	.29	.5	1,750	460	3	60	150	IN LINE 901.5 AA	–	–	–	40% PROPYLENE GLYCOL
CS-P-S-9	SHED THEATRICAL DECK	HOT WATER	80	20	62.5	22	4.25	.67	1	1,750	460	3	60	150	IN LINE 60x2x5.25	–	–	–	PROVIDED WITH VFD
CS-P-S-10	SHED THEATRICAL DECK	CHILLED WATER	150	20	–	–	–	1.25	1.5	1,750	460	3	60	150	IN LINE 80x2.5x2.5x9.5B	–	–	–	CONSTANT SPEED
CS-P-69-1	69 LEVEL CO-GEN PLANT	HOT WATER HEAT RECOVERY	50	100	42.1	145	2.5	2.5	3	1,750	460	3	60	150	IN LINE	–	–	–	PROVIDED WITH VFD
P-1	69 LEVEL CO-GEN PLANT	HOT WATER WASTE HEAT	35	–	–	–	–	–	–	–	460	3	60	150	–	–	–	–	–
P-2	69 LEVEL CO-GEN PLANT	ELECTRICAL COMPONENT HEAT REJECTION	8	–	–	–	–	–	–	–	460	3	60	150	–	–	–	–	–
P-3	69 LEVEL CO-GEN PLANT	CO-GEN HEAT REJECTION	50	–	–	–	–	–	–	–	460	3	60	150	–	–	–	–	–

TO BE FURNISHED AND INSTALLED UNDER CO-GEN SCOPE OF SERVICES (P-1, P-2, P-3)

NOTE:
1. ALL PUMPS TO BE PROVIDED WITH PREMIUM EFFICIENCY MOTORS.

PLATE AND FRAME HEAT EXCHANGERS

(SECTION 23 57 00) (ALPHA-LAVAL AS STD)

UNIT No.	LOCATION	SERVICE	COOLED/HEATED WATER GPM	INLET TEMP. (°F)	OUTLET TEMP. (°F)	MAX. PRESS. DROP (PSI)	DESIGN PRESS. (PSIG)	FOULING FACTOR	COOLING/HEATING WATER GPM	INLET TEMP. (°F)	OUTLET TEMP. (°F)	MAX. PRESS. DROP (PSI)	DESIGN PRESS. (PSIG)	FOULING FACTOR	HEAT TRANSFER AREA (SQ. FT)	OVERALL DIM. LENGTH x WIDTH x HEIGHT (IN.)	OPERATING WEIGHT (LBS)	MODEL No.	REMARKS
CS-PFHX-1-1	01 LEVEL	RADIANT FLOOR HOT WATER	140	100	125	6.5	150	.0001	75	162.5	112.5	6.5	150	.0001	165	45x13x36	572	AQ2-MFG	40% PROPYLENE GLYCOL HEATED WATER SIDE
CS-PFHX-5-1 & CS-PFHX-5-2	05 LEVEL	SECONDARY CONDENSER WATER	300	102.5	87.5	6.5	150	.0001	300	85	100	6.5	400	.0005	1,071	70x20x76	3,250	AQ4L-FS	(1) IS STDBY
CS-PFHX-5-3 & CS-PFHX-5-4	05 LEVEL	DOMESTIC WATER HEATING	85	85	145	1.2	150	.0001	85	148	88	1.2	150	.0001	1,305	57x26x76	2,350	AQ4L-FG	(1) IS STDBY
CS-PFHX-5-5	05 LEVEL	CO-GEN HEAT RECOVERY	50	140	175	3.2	150	.0001	50	190	155	3.2	400	.0001	70	47x20x76	1,950	AQ4L-PFS	
CS-PFHX-7-1 & CS-PFHX-7-2	07 LEVEL	HOT WATER	475	140	180	6.5	150	.0001	475	185	145	6.5	150	.0001	1,695	69x26x95	5,215	AQ4L-FG	(1) IS STDBY
CS-PFHX-7-3	07 LEVEL	CHILLED WATER FREE COOLING	370	60	44	6.5	150	.0001	370	42	58	6.5	400	.0005	2,377	110x27x54	11,785	AQ4L-FS	
CS-PFHX-7-4	07 LEVEL	CO-GEN HEAT RECOVERY	50	140	175	3.2	150	.0001	50	190	155	3.2	400	.0001	70	47x20x76	1,950	AQ4L-PFS	
CS-PFHX-S-1 & CS-PFHX-S-2	SHED THEATRICAL DECK	HOT WATER	120	137	177	6.5	150	.0001	114	180	140	6.5	150	.0001	1,868	104x19x78	3,950	TL 10-BFG	40% PROPYLENE GLYCOL HEATED WATER SIDE (1) IS STDBY
CS-PFHX-S-3 & CS-PFHX-S-4	SHED THEATRICAL DECK	CHILLED WATER	320	60	44	6.5	150	.0001	300	42	58	6.5	150	.0001	3,256	84x25x108	6,370	TL 15-BFG	40% PROPYLENE GLYCOL COOLED WATER SIDE (1) IS STDBY
PFHX-1	69 LEVEL	HOT WATER COGEN HEAT SINK	35	220	170	6.5	150	.0001	50	170	200	6.5	150	.0001					BRAZED PLATE
PFHX-2	69 LEVEL	HOT WATER HEAT RECOVERY	35	220	170	6.5	150	.0001	50	165	195	6.5	150	.0001					BRAZED PLATE

TO BE FURNISHED AND INSTALLED UNDER CO-GEN SCOPE OF SERVICES (PFHX-1, PFHX-2)

NOTE:
1. HEAT TRANSFER SURFACE AREA SHALL NOT DEVIATE MORE THAN 5% OF AREA SCHEDULED.

EXPANSION TANKS / MAKE-UP PUMPS

(SECTION 23 21 33) (AMTROL AS STD)

TANK No.	LOCATION	SERVICE	EXPANSION TANKS DIAMETER (IN.)	STRAIGHT SHELL LENGTH (IN.)	CAPACITY (GALLONS)	WORKING PRESS. (PSIG)	TYPE	MAKE-UP PUMPS GPM PER PUMP	SUCTION TEMP. (°F)	DISHARGE PRESS. (PSIG)	MOTOR RPM	RECEIVER CAPACITY	MIN. MOTOR HP PER PUMP	VOLTS	PHASE	Hz	PUMP TYPE	SIZE	REMARKS
CS-ET-1-1	01 LEVEL	RADIANT FLOOR HOT WATER	24	51	80	150	DIAPHRAM	15	60	120	1750	20	3/4	460	3	60	SIMPLEX		40% PROPYLENE GLYCOL
CS-ET-5-1	05 LEVEL	SECONDARY CONDENSER WATER	24	51	80	150	DIAPHRAM	15	60	120	1750	20	3/4	460	3	60	SIMPLEX		
CS-ET-7-1	07 LEVEL	CHILLED WATER	36	73	264	150	DIAPHRAM	15	60	120	1750	20	3/4	460	3	60	SIMPLEX		
CS-ET-7-2	07 LEVEL	HOT WATER	48	119	792	150	DIAPHRAM	15	60	120	1750	20	3/4	460	3	60	SIMPLEX		
CS-ET-S-1	SHED MECHANICAL DECK	HOT WATER	30	64	158	150	DIAPHRAM	15	60	120	1750	20	3/4	460	3	60	SIMPLEX		40% PROPYLENE GLYCOL
CS-ET-S-2	SHED MECHANICAL DECK	CHILLED WATER	24	51	80	150	DIAPHRAM	15	60	120	1750	20	3/4	460	3	60	SIMPLEX		40% PROPYLENE GLYCOL
CS-ET-69-1	69 LEVEL	HOT WATER COGEN HEAT RECOVERY	36	73	264	150	DIAPHRAM	15	60	120	1750	20	3/4	460	3	60	SIMPLEX		40% PROPYLENE GLYCOL
CS-ET-69-2	69 LEVEL	HOT WATER COGEN HEAT RECOVERY	16	30	22	150	DIAPHRAM	15	60	120	1750	20	3/4	460	3	60	SIMPLEX		40% PROPYLENE GLYCOL
ET-1	69 LEVEL	HOT WATER COGEN HEAT SINK	24	51	80	150	DIAPHRAM	15	60	120	1750	20	3/4	460	3	60	SIMPLEX		40% PROPYLENE GLYCOL
ET-2	69 LEVEL	HOT WATER COGEN HEAT SINK	24	51	80	150	DIAPHRAM	15	60	120	1750	20	3/4	460	3	60	SIMPLEX		

TO BE FURNISHED AND INSTALLED UNDER CO-GEN SCOPE OF SERVICES (ET-1, ET-2)

NOTES:
1. ALL MISCELLANEOUS SECONDARY LOOPS SHALL BE PROVIDED WITH EXPANSION TANKS.
2. PROVIDE AND INSTALL ALL REQUIRED COMPRESSED AIR VALVES, FITTINGS AND GAUGES REQUIRED FOR CHARGING

LINEAR DIFFUSER SCHEDULE

(SECTION 233713) (TITUS MODEL "FLOW BAR" AS STD)

LINEAR DIFFUSER TYPE	SERVICE	TOTAL CFM	CFM / LINEAR FOOT	NO. OF SLOTS	SIZE OF SLOTS	TOTAL LENGTH	ACTIVE LENGTH	NO. OF TAPS	SIZE OF TAPS	TITUS AS STANDARD MODEL NO.	DIRECTION OF DISCHARGE AIR FLOW
CS-LD-00-1 & CS-LD-00-2	LOBBY SUPPLY	510	51	1	1"	24'-0"	10'-0"	2	SEE PLANS	FL-10-JT	REFER TO DRAWING M-100.00
CS-LD-00-3 & CS-LD-00-4	LOBBY RETURN	510	24.3	1	1"	21'-0"	21'-0"	–	SEE PLANS	FL-10-JT	REFER TO DRAWING M-100.00
CS-LD-00-5 & CS-LD-00-6	LOBBY SUPPLY	410	51.2	1	2"	21'-0"	8'-0"	2	SEE PLANS	FL-20-JT	REFER TO DRAWING M-100.00
CS-LD-00-7 & CS-LD-00-8	LOBBY RETURN	410	21.6	1	2"	19'-0"	19'-0"	–	SEE PLANS	FL-20-JT	REFER TO DRAWING M-100.00
CS-LD-00-9	LOBBY VESTIBULE SUPPLY	4,400	220	2	3"	26'-0"	20'-0"	4	SEE PLANS	FL-30-HT	REFER TO DRAWING M-100.00
CS-LD-00-10	LOBBY VESTIBULE RETURN	4,400	169	2	3"	26'-0"	26'-0"	–	SEE PLANS	FL-30-JT	REFER TO DRAWING M-100.00
CS-LD-00-11	LOBBY SUPPLY	7,680	96	2	2"	120'-0"	90'-0"	18	SEE PLANS	FL-20-HT	REFER TO DRAWING M-100.00
CS-LD-00-12	LOBBY SUPPLY	750	62.5	1	2"	24'-0"	12'-0"	3	SEE PLANS	FL-20-HT	REFER TO DRAWING M-100.00
CS-LD-00-13	TOILET SUPPLY	250	62.5	1	1"	12'-0"	4'-0"	1	SEE PLANS	FL-10-HT	REFER TO DRAWING M-100.00
CS-LD-1-1	UPPER LOBBY	2,420	55	1	1"	66'-0"	44'-0"	11	SEE PLANS	FL-10-HT	REFER TO DRAWING M-101.00
CS-LD-1-2	UPPER LOBBY	1,980	55	1	1"	66'-0"	36'-0"	9	SEE PLANS	FL-10-HT	REFER TO DRAWING M-101.00
CS-LD-1-3	VESTIBULE 01.00 SUPPLY	2,300	230	3	3"	11'-0"	10'-0"	2	SEE PLANS	FL-30-JT	REFER TO DRAWING M-101.00
CS-LD-1-4	VESTIBULE 01.00 RETURN	2,300	210	3	3"	11'-0"	11'-0"	–	SEE PLANS	FL-30-JT	REFER TO DRAWING M-101.00
CS-LD-1-5	FLEX SPACE 01.07	700	58.3	1	1"	13'-0"	12'-0"	3	SEE PLANS	FL-10-JT	REFER TO DRAWING M-101.00
CS-LD-1-6	FLEX SPACE 01.08	985	49.3	1	1"	21'-0"	15'-0"	3	SEE PLANS	FL-10-JT	REFER TO DRAWING M-101.00
CS-LD-1-7	FLEX SPACE 01.09	1,335	47.7	1	1"	30'-0"	28'-0"	7	SEE PLANS	FL-10-JT	REFER TO DRAWING M-101.00
CS-LD-3-1	ESCALATOR F	6,800	143	2	3"	66'-0"	52'-0"	9	SEE PLANS	FL-30-JT	REFER TO DRAWING M-103.00
CS-LD-4-1 & CS-LD-4-4	CORRIDOR 04.50	225	56.25	1	2"	5'-0"	5'-0"	–	SEE PLANS	FL-20-JT	REFER TO DRAWING M-104.00
CS-LD-4-2 & CS-LD-4-3	CORRIDOR 04.50	225	56.25	1	2"	5'-0"	4'-0"	–	SEE PLANS	FL-20-JT	REFER TO DRAWING M-104.00
CS-LD-5-1	ESCALATOR F	6,800	143	2	3"	66'-0"	52'-0"	9	SEE PLANS	FL-30-JT	REFER TO DRAWING M-105.00
CS-LD-6-1 & CS-LD-6-3	CORRIDOR 06.50	225	56.25	1	2"	5'-0"	5-0"	–	SEE PLANS	FL-20-JT	REFER TO DRAWING M-106.00
CS-LD-6-2 & CS-LD-6-4	CORRIDOR 06.50	225	56.25	1	2"	5'-0"	4'-0"	–	SEE PLANS	FL-20-JT	REFER TO DRAWING M-106.00
CS-LD-7-1	ESCALATOR F	6,800	143	2	3"	66'-0"	52'-0"	9	SEE PLANS	FL-30-JT	REFER TO DRAWING M-107.00
CS-LD-8-1	RECEPTION 08.52	500	45.5	1	1-1/2"	12'-0"	11'-0"	2	SEE PLANS	FL-15-HT	REFER TO DRAWING M-108.00
CS-LD-8-2 & CS-LD-8-4	CORRIDOR 08.50	225	56.25	1	2"	5'-0"	5-0"	–	SEE PLANS	FL-20-JT	REFER TO DRAWING M-108.00
CS-LD-8-3 & CS-LD-8-5	CORRIDOR 08.50	225	56.25	1	2"	5'-0"	4'-0"	–	SEE PLANS	FL-20-HT	REFER TO DRAWING M-108.00
CS-LD-8-6 THRU CS-LD-8-8	OPEN CORRIDOR	100	33.3	1	1"	5'-0"	3'-0"	1	SEE PLANS	FL-10-JT	REFER TO DRAWING M-108.00
CS-LD-8-9	SKYLIGHT GALLERY 04	1350	67.5	2	1"	45'-0"	20'-0"	5	SEE PLANS	FL-20-HT	REFER TO DRAWING M-108.00
CS-LD-8-10	SKYLIGHT GALLERY 04	1350	67.5	2	1"	45'-0"	20'-0"	5	SEE PLANS	FL-10-HT	REFER TO DRAWING M-108.00
CS-LD-8-11	SKYLIGHT GALLERY 04	1350	67.5	2	1"	45'-0"	20'-0"	5	SEE PLANS	FL-10-HT	REFER TO DRAWING M-108.00
CS-LD-8-12	SKYLIGHT GALLERY 04	1350	67.5	2	1"	45'-0"	20'-0"	5	SEE PLANS	FL-10-HT	REFER TO DRAWING M-108.00
CS-LD-8-13	LEVEL 08 SOUTH ESCALATOR	5,000	62.5	1	1-1/2"	98'-0"	80'-0"	20	SEE PLANS	FL-15-HT	REFER TO DRAWING M-108.00

LINEAR NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR BORDER TYPES AND COLORS OF LINEAR DIFFUSERS. ALL BORDER TYPES FOR CEILING MOUNTED DIFFUSERS AND RETURNS SHALL BE COORDINATED WITH LATEST ARCHITECTURAL REFLECTED CEILING PLANS.
2. INACTIVE PORTIONS OF LINEAR DIFFUSERS TO BE USED FOR RETURN AIR AND SHALL BE PROVIDED WITH BLANK OFF SECTIONS (LIGHT SHIELDS) THAT HAVE EQUAL OR GREATER FREE AREA THAN THE OPEN AREA OF THE LINEAR ITSELF.
3. PROVIDE CORD OPERATED VOLUME DAMPERS FOR ALL DIFFUSERS LOCATED IN INACCESSIBLE CEILINGS. VD'S SHALL BE LOCATED A MINIMUM OF 3'-0" AWAY FROM THE SUPPLY PLENUM.
4. ALL LINEAR DIFFUSERS REQUIRE FIELD MITERED CUTS AT ALL ACUTE ANGLES FOR A CONTINUOUS APPEARANCE.
5. BALANCER SHALL INSPECT UPON COMPLETION OF AIR BALANCING OF EACH FLOW BAR DIFFUSER FOR PROPER ALIGNMENT OF THE PATTERN CONTROLLER AND TO ENSURE NO CONFLICT WITH VOLUME DAMPER ADJUSTMENT CORD. PATTERN CONTROL SHALL BE ALIGNED FOR PROPER AIR FLOW DIRECTION. REFER TO PLANS FOR AIR FLOW DIRECTION.
6. PROVIDE PLENUMS WITH CLOSED CELL 1" THICK ACOUSTIC LINING (NO FIBERS EXPOSED TO THE AIR STREAM). PLENUMS SHALL BE SIMILAR TO MODEL FPB1-10 AS MANUFACTURED BY TITUS AND SIZES SHALL CONFORM TO SCHEDULE AND FLOOR PLANS.

PROFESSIONAL'S STATEMENT

TO THE BEST OF OUR KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE.

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Under Directive 2 of 1975
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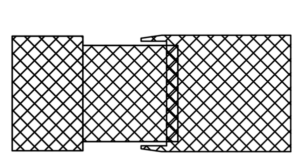
KEY PLAN



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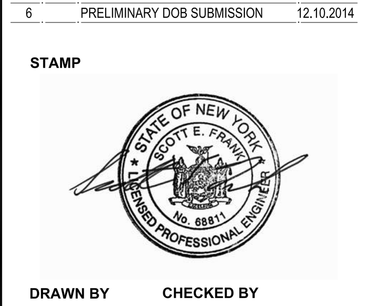

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B-SCAN NO.
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(SECTION 238123)

CHILLED WATER PACKAGED AIR CONDITIONING UNITS

(LIEBERT AS STD.)

UNIT No.	LOCATION	SERVICE	SENSIBLE CAPACITY (BTU/HR)	TOTAL CAPACITY (BTU/HR)	ENTER. AIR TEMP. (°F) DB	ENTER. AIR TEMP. (°F) WB	FAN SECTION CFM	FAN SECTION EXT. S.P. (IN.)	FAN SECTION MIN. MOTOR HP	FAN SECTION NO. OF FANS	COOLING COIL EWT (°F)	COOLING COIL LWT (°F)	COOLING COIL FACE AREA (SQ. FT)	COOLING COIL No. OF ROWS	COOLING COIL FACE VELOCITY (FPM)	COOLING COIL GPM	COOLING COIL P.D. (FT)	CONTROL VALVES WORKING PRESS. (PSI)	CONTROL VALVES VALVE TYPE	CONTROL VALVES SIZE	FILTER SIZE	FILTER MERV	HUMID. LBS/HR	HUMID. KW	REHEAT KW	ELECTRICAL TOTAL FLA	ELECTRICAL VOLTS	ELECTRICAL PHASE	ELECTRICAL Hz	VIB. BASE SPEC. TYPE	VIB. BASE MIN. STATIC. DEFL. (IN.)	EER (ARI)	UL LISTING	MODEL NUMBER	REMARKS
CS-AC-00-3	00 LEVEL	SWING STORAGE	32,100	32,100	72	61	1800	0.3	1	1	42	58	6.67	3	255	7.0	2.8	150	2-WAY SPRING RETURN	–	TO FIT	8	11	3.9	9	19.4	460	3	60	–	–	–	–	BU068C	
CS-AC-00-4	00 LEVEL	MULT PURPOSE WORK ROOMS	32,100	32,100	72	61	1800	0.3	1	1	42	58	6.67	3	255	7.0	2.8	150	2-WAY SPRING RETURN	–	TO FIT	8	11	3.9	9	19.4	460	3	60	–	–	–	–	BU068C	

NOTES:

1. UNITS SHALL BE PROVIDED WITH THE FOLLOWING:
   MICROPROCESSOR CONTROL SYSTEM (24 VOLT), DISCONNECT SWITCH, CONDENSATE PUMP (PROVIDED INTERNALLY BY MANUFACTURER), AND
   DRY CONTACTS FOR STATUS, COMMON ALARM AND REMOTE SHUT-DOWN.
2. FLOW SENSORS AND PIEZOMETER RINGS FOR ALL FANS SHALL BE PROVIDED THAT WILL BE TIED INTO A COMMON HIGH/LOW SENSING POINT.

(SECTION 237312)

VENTILATING, HEATING AND VENTILATING SYSTEMS (100% OA)

(CLIMATE CRAFT AS STD.)

HV SYSTEM No.	LOCATION	SERVICE	TOTAL AIR (CFM)	PRE-FILTERS MAX. PRESSURE DROP-CLEAN (IN. H2O)	PRE-FILTERS FILTER TYPE	PRE-FILTERS % EFFICIENCY (MERV)	PRE-FILTERS FILTER SIZES (QUANTITY)	PRE-FILTERS MAX. PRESSURE DROP DIRTY (IN. H2O)	GAS PHASE FILTERS MAX. PRESSURE DROP-CLEAN (IN.H2O)	GAS PHASE FILTERS FILTER TYPE	GAS PHASE FILTERS % EFFICIENCY	GAS PHASE FILTERS FILTER SIZES (QUANTITY)	GAS PHASE FILTERS MAX. PRESSURE DROP DIRTY (IN.H2O)
CS-HV-3-1	03 LEVEL	TRUCK LOADING VENTILATION	6,000	.13 / .34	SEE SPEC	8 / 16	(2) 24x18 (2) 24x24	.4 / 1.1	.5	SEE SPEC	–	(2) 24x18 (2) 24x20	.5
CS-HV-3-2	03 LEVEL	CELLAR VENTILATION	2,500	.18 / .45	SEE SPEC	8 / 16	(1) 24x24 (1) 24x12	.4 / 1.1	.5	SEE SPEC	–	(1) 24x24 (1) 24x12	.5
CS-HV-7-1	07 LEVEL	CHILLER PLANT VENTILATION	5,000	.18 / .45	SEE SPEC	8 / 16	(2) 24x24 (2) 24x12	.4 / 1.1	–	–	–	–	–
CS-HV-67-1	67 LEVEL	BOILER PLANT VENTILATION	1,500	.18 / .45	SEE SPEC	8 / 15	(2) 24x20 (2) 24x12	.4 / 1.1	–	–	–	–	–
CS-HV-69-1	69 LEVEL	COGEN PLANT VENTILATION	2,500	.18 / .45	SEE SPEC	8 / 15	(2) 24x20 (2) 24x12	.4 / 1.1	–	–	–	–	–

HV SYSTEM No.	PRE-HEAT COILS CFM	AIR SIDE ENTERING TEMP. (°F)	AIR SIDE LEAVING TEMP. (°F)	AIR SIDE MAX. PRESS. DROP (IN. H2O)	WATER SIDE PRESS. DROP (FT)	WATER SIDE ENTERING TEMP. (°F)	WATER SIDE LEAVING TEMP. (°F)	WATER SIDE WATER (GPM)	NUMBER OF SECTIONS	FINNED LENGTH (INCHES)	CASING HEIGHT (INCHES)	TOTAL FACE AREA (FT2)	FACE VELOCITY (FPM)	ROW DEEP	FIN SPACING (FIN/IN.)	CIRCUITING
CS-HV-3-1	6,000	0	60	.08	1.0	180	140	20	1	49	39	13.3	452	2	6	1/2
CS-HV-3-2	2,500	0	60	.09	1.0	180	132.5	8.5	1	31	24	5.2	484	2	6	1/4
CS-HV-7-1	5,000	0	60	.07	.5	180	140	16.5	1	43	39	11.6	429	2	6	1/2
CS-HV-67-1	1,500	0	60	.06	.5	190	155	6	1	35	33	8	312	2	–	–
CS-HV-69-1	2,500	0	60	.05	.5	190	155	10	1	35	33	8	312	2	–	–

HV SYSTEM No.	SUPPLY FAN CFM	EXTERNAL STATIC PRESSURE (IN. H2O)	TOTAL STATIC PRESSURE (IN. H2O)	MAX. OUTLET VELOCITY (FPM)	DISCHARGE DIRECTION	ARRANGEMENT	FAN R.P.M.	FAN ROTATION	FAN EFFICIENCY (%)	WHEEL DIAMETER (IN.)	ACCESS DOOR POSITION O'CLOCK	UNIT TYPE	UNIT SIZE	B.H.P.	MIN. MOTOR H.P.	FLA	MOTOR R.P.M.	MOTOR LOCATION	VOLTS	PHASE	HERTZ	VIB. BASE SPEC. TYPE	VIB. BASE MIN. STATIC DEFL. (IN.)	CLASS	REMARKS
CS-HV-3-1	6,000	3.0	5.59	2362	–	–	2573	CW	67.2	18.25	–	FAN ARRAY	18MTX100	7.98	10	15.4	1775	N/A	460	3	60	SEE SPEC	SEE SPEC	2	
CS-HV-3-2	2,500	3.0	5.17	1453	–	–	3500	CW	64	15	–	PLENUM	15-QEP-55	3.43	5	8.8	1750	N/A	460	3	60	SEE SPEC	SEE SPEC	3	
CS-HV-7-1	5,000	1.5	3.25	2326	–	–	3500	CW	57	15	–	PLENUM	15-QEP-75	4.5	5	8.8	1750	N/A	460	3	60	SEE SPEC	SEE SPEC	3	
CS-HV-67-1	1,500	1.5	3.25	1744	–	–	3500	CW	64	15	–	PLENUM	15-QEP-55	1.2	1.5	2.7	1750	N/A	460	3	60	SEE SPEC	SEE SPEC	3	
CS-HV-69-1	2,500	1.5	3.25	1453	–	–	3500	CW	64	15	–	PLENUM	15-QEP-55	1.97	3	5.3	1750	N/A	460	3	60	SEE SPEC	SEE SPEC	3	

NOTES:

1. REFER TO DETAIL SHEETS M-608.00 THROUGH M-610 FOR UNIT DIMENSIONAL LAYOUT DETAILS INFORMATION.
2. ALL ACCESSIBLE SECTIONS SHALL BE FURNISHED AND INSTALLED WITH INTERNAL LIGHTING (MARINE LIGHTS) AND SWITCHING.
3. ALL FANS SHALL BE PROVIDED WITH VARIABLE SPEED DRIVES UNLESS OTHERWISE NOTED.
4. ALL ASSEMBLED AIR HANDLING UNITS SHALL BE MOUNTED ON NEOPRENE PADS, TYPE VI MOUNTING IN ADDITION TO INTERNAL SPRINGS.
5. UNIT MANUFACTURER SHALL SUPPLY ALL GRATING, RAILS, AND DAMPERS AS SHOWN ON PLANS.
6. MAXIMUM VELOCITY THROUGH FILTERS SHALL BE 350 FPM.

(SECTION 236416)

ELECTRIC DRIVE CENTRIFUGAL CHILLERS

(YORK,CARRIER,TRANE AS STD.)

UNIT NO.	LOCATION	TONS	REFRIGERANT	CHILLER GPM	CHILLER INLET WATER TEMP. (°F)	CHILLER OUTLET WATER TEMP. (°F)	CHILLER MAX. PRESS. DROP (FT H2O)	CHILLER WORKING PRESS. (PSIG)	CHILLER FOULING FACTOR	CHILLER MAX. WATER VELOCITY (FPS)	CHILLER NUMBER OF PASSES	CONDENSER GPM	CONDENSER INLET WATER TEMP. (°F)	CONDENSER OUTLET WATER TEMP. (°F)	CONDENSER MAX. PRESS. DROP (FT H2O)	CONDENSER WORKING PRESS. (PSIG)	CONDENSER FOULING FACTOR	CONDENSER MAX. WATER VELOCITY (FPS)	CONDENSER NUMBER OF PASSES	ELECTRICAL kW (POWER FACTOR)	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	ELECTRICAL FREQUENCY	ELECTRICAL kW/TON	ELECTRICAL NPLV (KW/TONS)	ELECTRICAL TOTAL FULL LOAD AMPS	MODEL No.	MEA NUMBER	UL LISTING	REMARKS
CS-CH-7-1 & CS-CH-7-2	07 LEVEL	500	R134-A / R-123	750	58	42	13.1	150	.00010	–	2	1000	85	100	9.6	400	.00025	–	2	310	460	3	60	.620	.382	438	YKFCFRQ7-ERG	183-97-E	–	.548 KW/TR @ ARI CONDITIONS

NOTES:

1. EACH CHILLER SHALL BE PROVIDED WITH THE FOLLOWING:
   A) MARINE WATER BOXES.
   B) R-123 or R-134a REFRIGERANT.
   C) REFRIGERANT PUMPOUT/PURGE UNIT TO SERVE BOTH CHILLERS.
   D) REFRIGERANT MONITORING SYSTEM.
   E) UNIT MOUNTED VFD.
   F) MICROPROCESSOR CONTROL PANEL.
   G) HEAD PRESSURE CONTROL FOR LOW-TEMP CONDENSER WATER.
   H) INSULATION FOR EVAPORATOR & MARINE WATER BOXES.

(SECTION 263222)

CHP UNITS

(TECOGEN AS STD.)

UNIT	LOCATION	ELECTRICAL CAPACITY (kW)	THERMAL CAPACITY (BTU/HR)	DIMENSIONS (L x H x W)	WEIGHT (LBS)	FUEL	FUEL USE (SCFH)	FUEL SUPPLY PRESS.	ELECTRICAL INTERCONN.	ELECTRICAL EFFICIENCY (HHV=1020)	THERMAL EFFICIENCY (HHV=1020) 44	EXHAUST SILENCER	SOUND LEVEL (DBA AT 20'-0")	MODEL NUMBER	REMARKS
CHP-69-1	CS COGEN 69.70	100	700,000	7'-4" x 4'-0" x 5'-9"	3,850	NATURAL GAS	1238	10-28 IWC	INVERTER-BASED	27.03%	55.43%	4' STAINLESS, CRITICAL GRADE	74	INVERDE ULTRA 100	

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NOTES:

1. THE HEAT RECOVERY PRODUCED FROM THE COGENERATION PLANT SHALL BE UTILIZED FOR SERVICE HOT WATER HEATING AND SPACE HEATING APPLICATIONS.
2. THE COGENERATION PLANT SHALL ONLY OPERATE DURING THE WINTER MONTHS, FROM OCTOBER 1ST THROUGH APRIL 30TH OF EACH CALENDAR YEAR.

PROFESSIONAL'S STATEMENT

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FACADE MAINTENANCE
Entek Engineering PLLC
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T: 212.896.3000

BRANDING/GRAPHICS
2x4 Global Design Consultancy
180 Varick Street 15th Floor
New York, NY 10014
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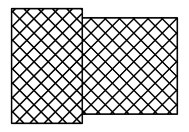
KEY PLAN



ISSUE △		PRINTING	DATE
55	44	DOB AMENDMENT 6	06.30.2015
19		DOB AMENDMENT 3	09.16.2015
17		DOB AMENDMENT 02	09.03.2015
12	6	ADDENDUM #1	07.22.2015
10		100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

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STATE OF NEW YORK · SCOTT E. FRANK · No. 68811 · LICENSED PROFESSIONAL ENGINEER

DRAWN BY CHECKED BY

PROJECT NUMBER
14073.N.000

TITLE
HVAC
SCHEDULE SHEET No. 6

DRAWING NO.
M-506.00

B-SCAN NO.
M-506.01

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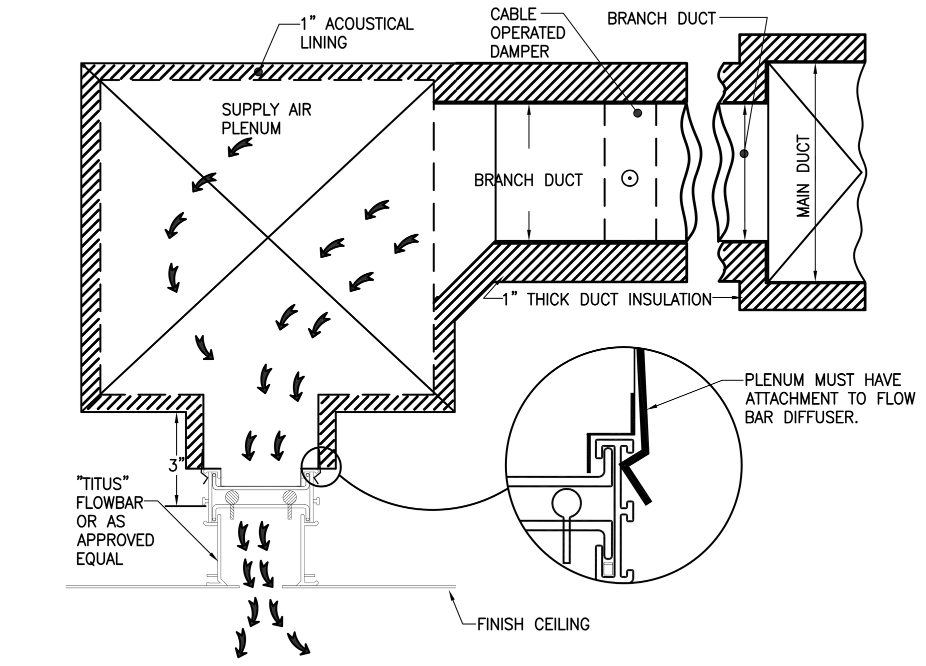
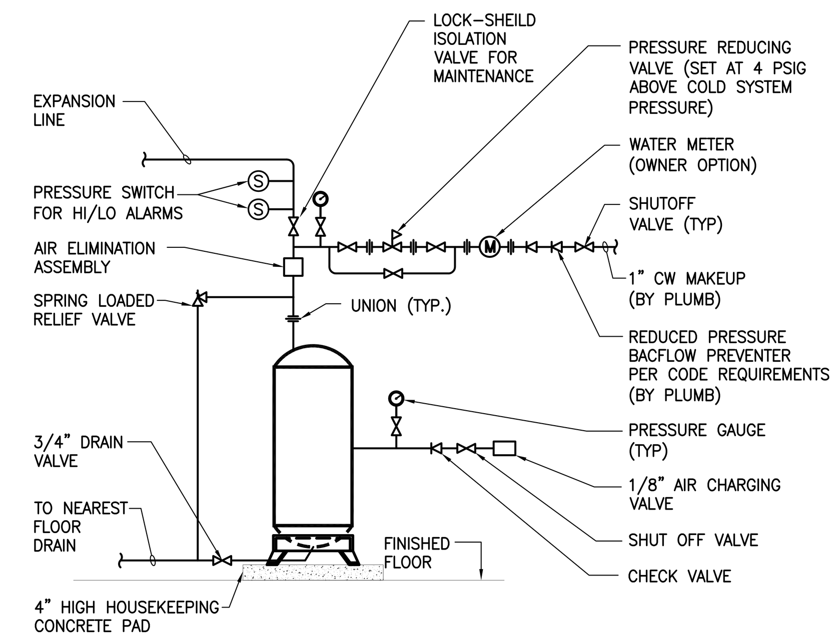


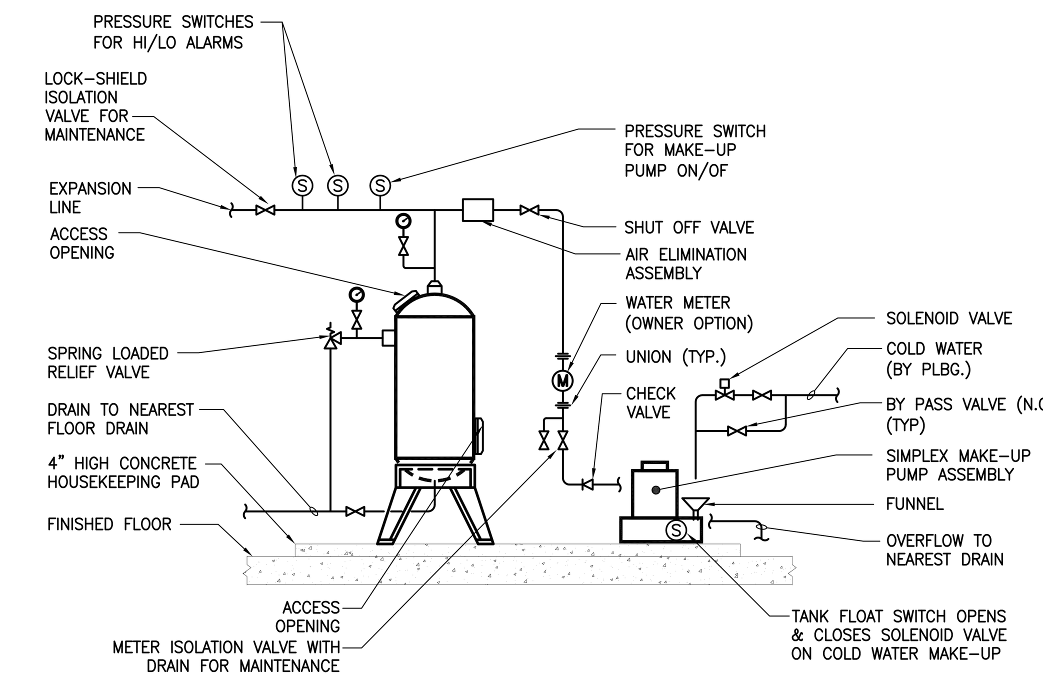
NOTE: PLENUMS SHALL BE CONSTRUCTED TO GUARANTEE AIR TIGHT CONNECTION PERFORMANCE DATA AS SPECIFIED.

LINEAR SUPPLY DIFFUSER PLENUM DETAIL

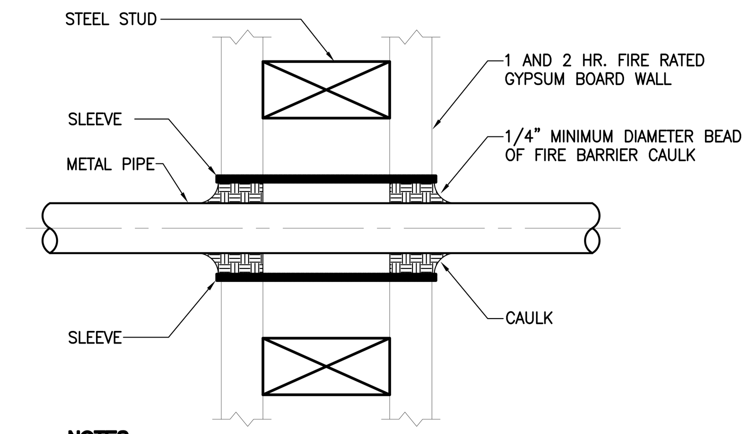
NTS



VERTICAL DIAPHRAGM EXPANSION TANK PIPING CONNECTION DETAIL



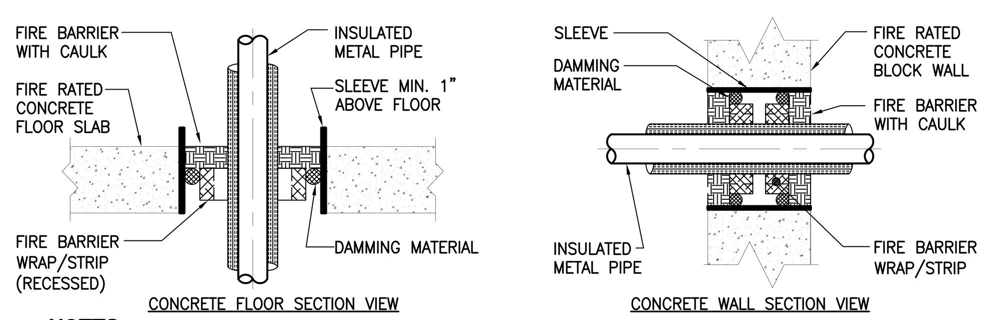
DIAPHRAGM EXPANSION TANK WITH MAKE-UP PUMP



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 FIRE STOPPING.
6. IN ADDITION TO THE REQUIREMENTS OF THE APPROVED UL LISTED FIRE STOPPING ASSEMBLIES, ESCUTCHEON PLATES SHALL BE INSTALLED ON EACH SIDE OF THE FIRE RATED WALL AND SLAB CONSTRUCTION IN ACCORDANCE WITH ARTICLE 15005-1.25 OF THE SPECIFICATIONS AND AS REQUIRED BY THE NEW YORK CITY BUILDING CODE.

PENETRATION FIRESTOP FOR METAL PIPE THROUGH GYPSUM BOARD WALL



NOTES:

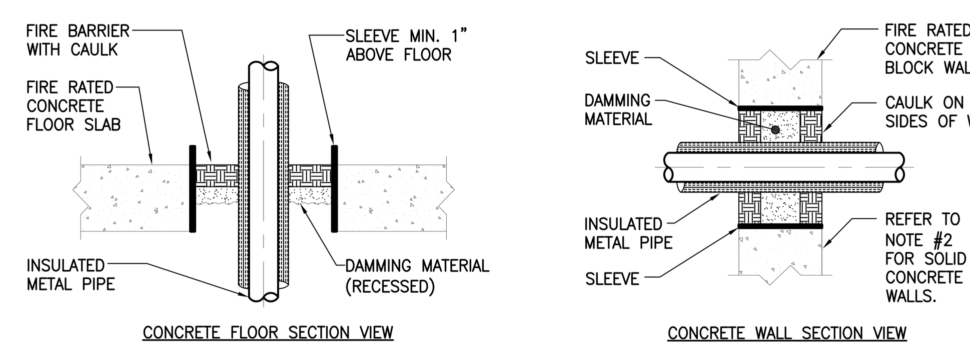
1. ALL PENETRATION FIRESTOPS MUST BE INSTALLED ON BOTH SIDES OF THE WALL, THE FLOOR PENETRATION FIRESTOP IS TO BE INSTALLED FOR THE TOP OF THE FLOOR SURFACE.
2. THE ANNULAR SPACE MUST BE LARGE ENOUGH TO ACCOMODATE THE MIN. NUMBER OF WRAP/STRIPS REQUIRED IN BOTH THE FLOOR OR WALL. THE MINIMUM ANNULAR 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 PROVIDED 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.
6. IN ADDITION TO THE REQUIREMENTS OF THE APPROVED UL LISTED FIRE STOPPING ASSEMBLIES, ESCUTCHEON PLATES SHALL BE INSTALLED ON EACH SIDE OF THE FIRE RATED WALL AND SLAB CONSTRUCTION IN ACCORDANCE WITH ARTICLE 15005-1.25 OF THE SPECIFICATIONS AND AS REQUIRED BY THE NEW YORK CITY BUILDING CODE.

PENETRATION FIRESTOP FOR 20" MAX. INSULATED METAL PIPE THROUGH A CONCRETE FLOOR OR WALL



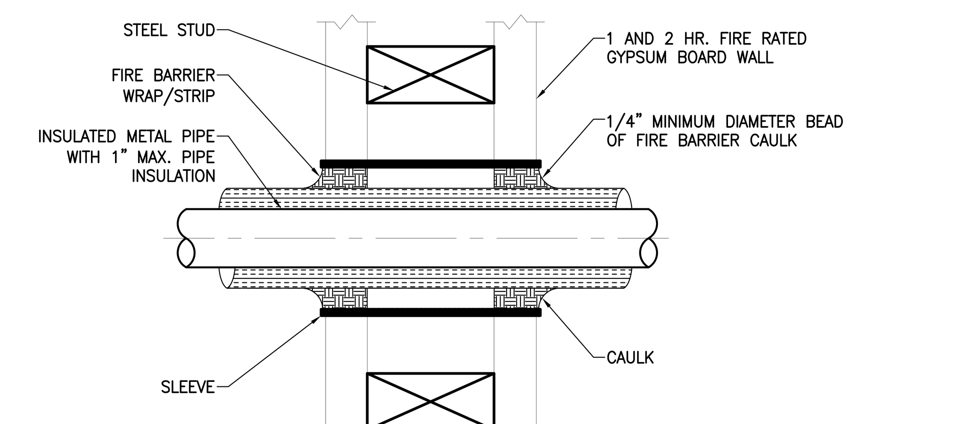
NOTES:

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.
6. IN ADDITION TO THE REQUIREMENTS OF THE APPROVED UL LISTED FIRE STOPPING ASSEMBLIES, ESCUTCHEON PLATES SHALL BE INSTALLED ON EACH SIDE OF THE FIRE RATED WALL AND SLAB CONSTRUCTION IN ACCORDANCE WITH ARTICLE 15005-1.25 OF THE SPECIFICATIONS AND AS REQUIRED BY THE NEW YORK CITY BUILDING CODE.

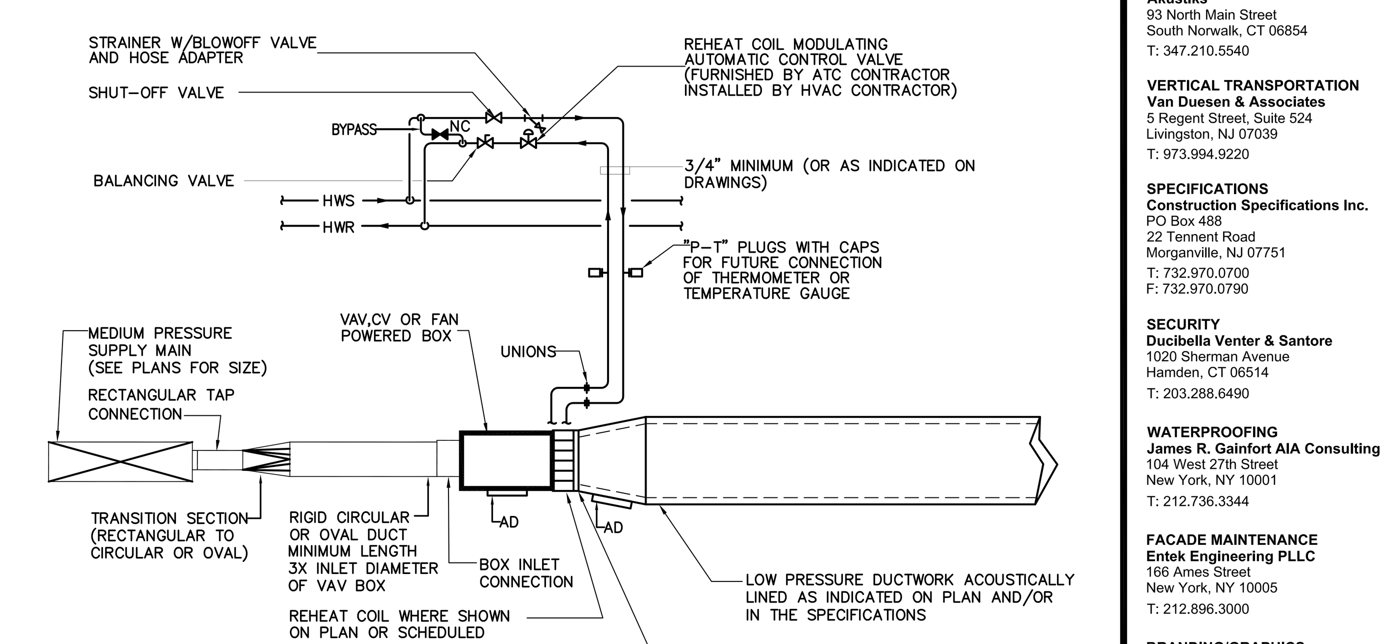
PENETRATION FIRESTOP FOR INSULATED METAL PIPE THROUGH A CONCRETE FLOOR OR WALL



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.
7. IN ADDITION TO THE REQUIREMENTS OF THE APPROVED UL LISTED FIRE STOPPING ASSEMBLIES, ESCUTCHEON PLATES SHALL BE INSTALLED ON EACH SIDE OF THE FIRE RATED WALL AND SLAB CONSTRUCTION IN ACCORDANCE WITH ARTICLE 15005-1.25 OF THE SPECIFICATIONS AND AS REQUIRED BY THE NEW YORK CITY BUILDING CODE.

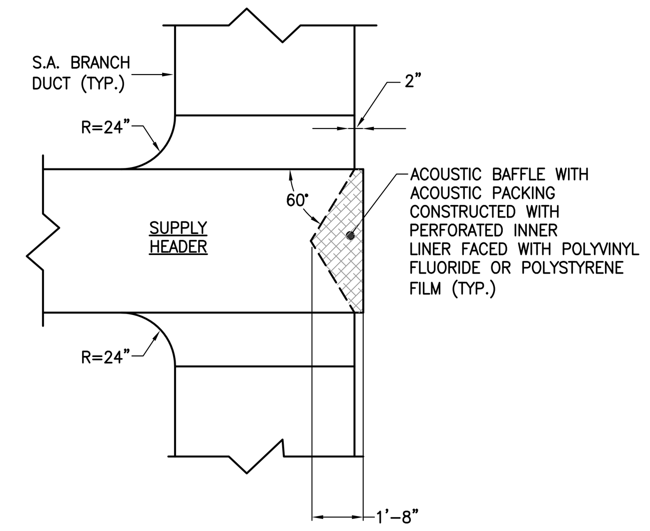
PENETRATION FIRESTOP FOR INSULATED METAL PIPE THROUGH GYPSUM BOARD WALL



NOTES:

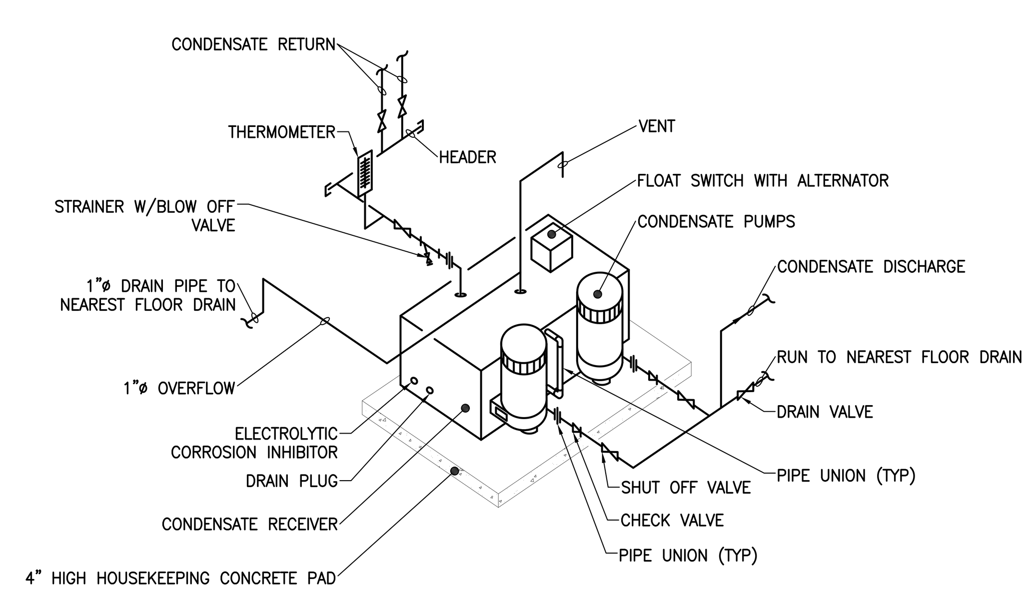
1. PROVIDE ACCESS DOOR UPSTREAM AND DOWNSTREAM OF REHEAT COIL.
2. ALLOW CLEARANCE ON BOTH SIDES OF COIL FOR PIPING CONNECTIONS AND COIL REMOVAL.

CVR, VAV, FPB OR TERMINAL UNIT WITH REHEAT COIL CONNECTION DETAIL

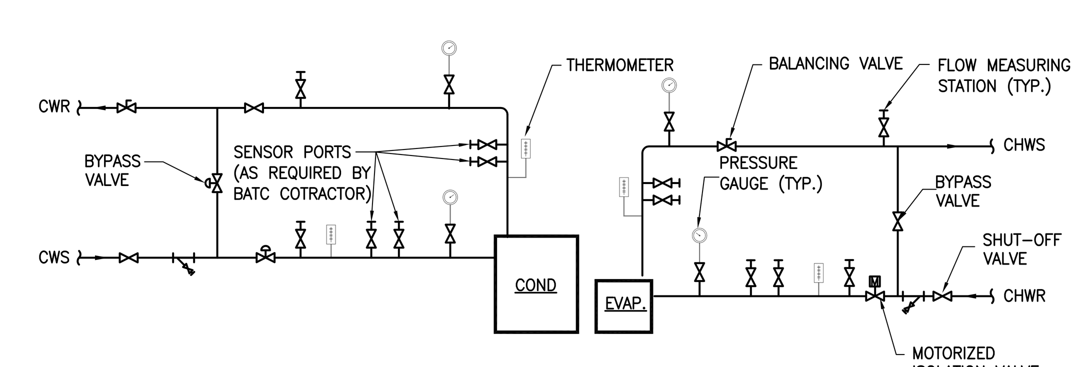


TYPICAL MEDIUM PRESSURE TAP-OFF WITH INTERNAL ACOUSTICAL BAFFLE

33



DUPLEX CONDENSATE PUMP AND RECEIVER CONNECTIONS



CHILLER PIPING DETAIL

PROFESSIONAL'S STATEMENT	BUILDING DEPARTMENT NOTE
TO THE BEST OF OUR KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE.	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.

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DEPT OF BLDGS 121192397 Job Number
ES199634985 Scan Code

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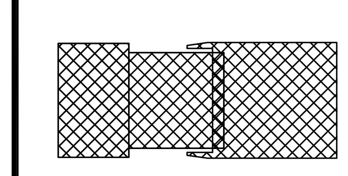
KEY PLAN



ISSUE		PRINTING	DATE
44	33	DOB AMENDMENT 5	04.08.2016
19		DOB AMENDMENT 3	09.16.2015
17		DOB AMENDMENT 02	09.03.2015
12	6	ADDENDUM #1	07.22.2015
10		100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

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PROJECT NUMBER
14073.N.000

TITLE
HVAC
DETAIL SHEET No. 2

DRAWING NO.
M-602.01

B-SCAN NO.

M-602.01

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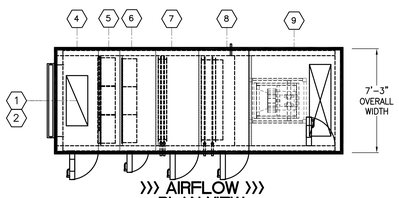
DEPT OF BLDGS 421303297 Job Number
E3970522746 Scan Code

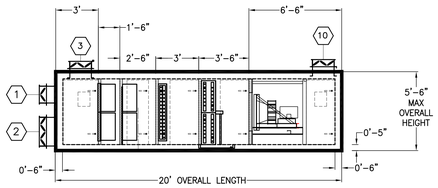
PROFESSIONAL'S STATEMENT

TO THE BEST OF OUR KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE.

CS-ACS-6-2
LEVEL 08 OFFICE SPACE
AIR CONDITIONING SYSTEM
(9,000 CFM)



››› AIRFLOW ›››
PLAN VIEW



ELEVATION VIEW

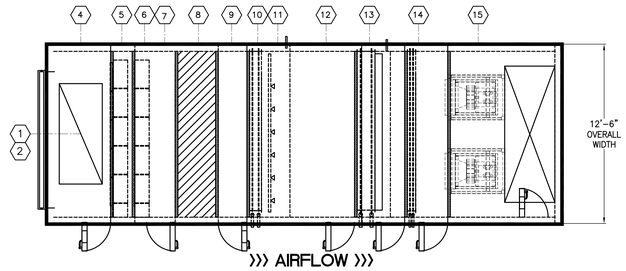
KEY:

1. 24x14 MIN OA SD (1,750)
2. 60x24 MAX OA SD (7,250)
3. 42x18 RA SD (7,250)
4. RETURN AIR/OUTSIDE AIR MIXING PLENUM WITH ACCESS SECTION
5. FILTER BANK No. 1 & No. 2
6. FILTER BANK No. 3 WITH ACCESS SECTION

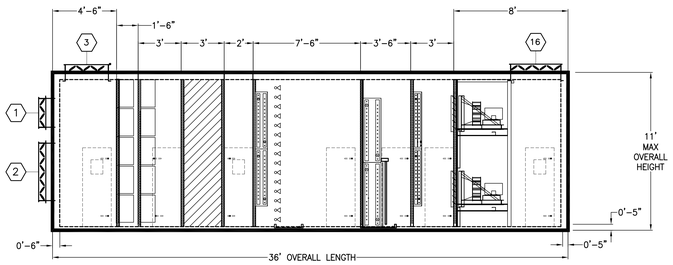
KEY (ctd.):

7. HEATING COIL WITH ACCESS SECTION
8. COOLING COIL WITH ACCESS SECTION
9. SUPPLY FAN SECTION WITH ACCESS SECTION
10. 60x18 DISCHARGE SD (9,000)

CS-ACS-7-2
GALLERY 3 EAST
AIR CONDITIONING SYSTEM
(38,000 CFM)



››› AIRFLOW ›››
PLAN VIEW



ELEVATION VIEW

KEY:

1. 60x24 MIN OA SD (8,000)
2. 108x48 MAX OA SD (30,000)
3. 84x36 RA SD (30,000)
4. RETURN AIR/OUTSIDE AIR MIXING PLENUM WITH ACCESS SECTION
5. FILTER BANK No. 1 & No. 2
6. FILTER BANK No. 3

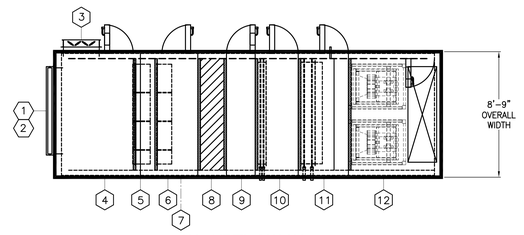
KEY (ctd):

7. ACCESS SECTION
8. 3'–0 LONG SOUND ATTENUATOR
9. ACCESS SECTION
10. HEATING COIL
11. HUMIDIFIER
12. SPACER SECTION WITH ACCESS SECTION

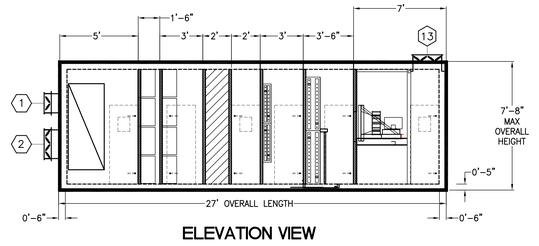
KEY (ctd):

13. COOLING COIL WITH ACCESS SECTION
14. REHEAT COIL WITH ACCESS SECTION
15. SUPPLY FAN SECTION WITH ACCESS SECTION
16. 62x62 DISCHARGE SD (38,000)

CS-ACS-9-2
GALLERY 4
AIR CONDITIONING SYSTEM
(20,000 CFM)



››› AIRFLOW ›››
PLAN VIEW



ELEVATION VIEW

KEY:

1. 48x16 MIN OA SD (4,000)
2. 72x42 MAX OA SD (16,000)
3. 72x30 RA SD (16,000)
4. RETURN AIR/OUTSIDE AIR MIXING PLENUM WITH ACCESS SECTION
5. FILTER BANK No. 1 & No. 2
6. FILTER BANK No. 3
7. ACCESS SECTION

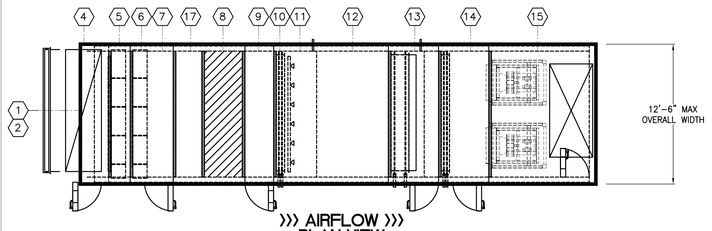
KEY (ctd):

8. 2'–0" LONG SOUND ATTENUATOR
9. ACCESS SECTION
10. HEATING COIL WITH ACCESS SECTION
11. COOLING COIL WITH ACCESS SECTION
12. SUPPLY FAN SECTION WITH ACCESS SECTION
13. 80x24 DISCHARGE SD (20,000)

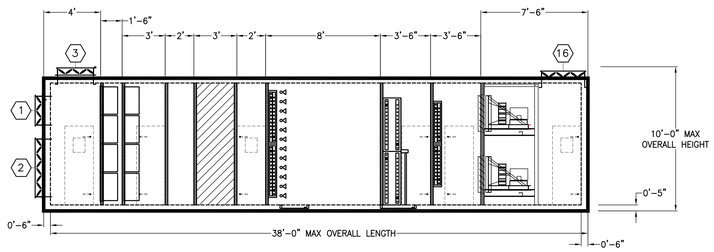
BUILDING DEPARTMENT NOTE

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.

CS-ACS-7-1
GALLERY 3 WEST
AIR CONDITIONING SYSTEM
(25,000 CFM)



››› AIRFLOW ›››
PLAN VIEW



ELEVATION VIEW

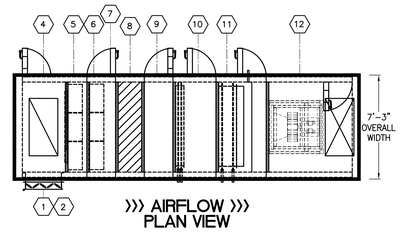
KEY:

1. 36x24 MIN OA SD (5,250)
2. 84x48 MAX OA SD (19,750)
3. 102x30 RA SD (19,750)
4. RETURN AIR/OUTSIDE AIR MIXING PLENUM WITH ACCESS SECTION
5. FILTER BANK No. 1 & No. 2
6. FILTER BANK No. 3
7. ACCESS SECTION
8. 3'–0" LONG SOUND ATTENUATOR

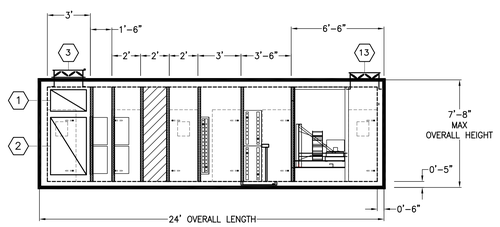
KEY (ctd.):

9. ACCESS SECTION
10. HEATING COIL
11. HUMIDIFIER
12. SPACER SECTION WITH ACCESS SECTION
13. COOLING COIL WITH ACCESS SECTION
14. REHEAT COIL WITH ACCESS SECTION
15. SUPPLY FAN SECTION WITH ACCESS SECTION
16. 62x42 DISCHARGE SD (25,000)
17. SPACER SECTION FOR FUTURE FILTERS

CS-ACS-9-1
GALLERY 08 CAFE/BAR
AIR CONDITIONING SYSTEM
(10,000 CFM)



››› AIRFLOW ›››
PLAN VIEW



ELEVATION VIEW

KEY:

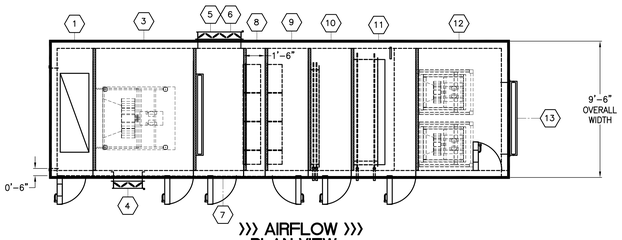
1. 30x18 MIN OA SD (2,500)
2. 30x48 MAX OA SD (7,500)
3. 24x48 RA SD (7,500)
4. RETURN AIR/OUTSIDE AIR MIXING PLENUM WITH ACCESS SECTION
5. FILTER BANK No. 1 & No. 2
6. FILTER BANK No. 3
7. ACCESS SECTION

KEY (ctd):

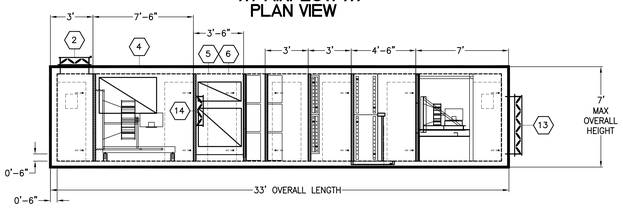
8. 2'–0" LONG SOUND ATTENUATOR
9. ACCESS SECTION
10. HEATING COIL WITH ACCESS SECTION
11. COOLING COIL WITH ACCESS SECTION
12. SUPPLY FAN SECTION WITH ACCESS SECTION
13. 24x48 DISCHARGE SD (10,000)

33

CS-ACS-S-1 AND CS-ACS-S-2
DEPLOYED SHED
AIR CONDITIONING SYSTEM
(15,000 CFM EA)



››› AIRFLOW ›››
PLAN VIEW



ELEVATION VIEW

KEY:

1. ACCESS SECTION
2. 66x24 RA SD (15,000)
3. EXHAUST FAN SECTION WITH ACCESS SECTION
4. 48x30 SPILL SD (11,250)
5. 36x16 MIN OA SD (3,750)
6. 36x32 MAX OA SD (11,250)
7. RETURN AIR/OUTSIDE AIR MIXING PLENUM WITH ACCESS SECTION

KEY (ctd):

6. FILTER BANK No. 1 & No. 2
9. FILTER BANK No. 3 WITH ACCESS SECTION
10. HEATING COIL WITH ACCESS SECTION
11. COOLING COIL WITH ACCESS SECTION
12. SUPPLY FAN SECTION WITH ACCESS SECTION
13. 84x48 DISCHARGE SD (15,000)
14. 60x24 RETURN AIR SD (11,250)

Damian Titus
Buildings
APPROVED
Under Directive 2 of 2015
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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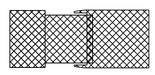
KEY PLAN



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17		DOB AMENDMENT 02	09.03.2015
12	6	ADDENDUM #1	07.22.2015
10		100% CONSTRUCTION DOCUMENTS	03.18.2015

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PROJECT NUMBER
14073.N.000

TITLE
HVAC
DETAIL SHEET No. 9

DRAWING NO.
M-609.01

B-SCAN NO.
M-609.01

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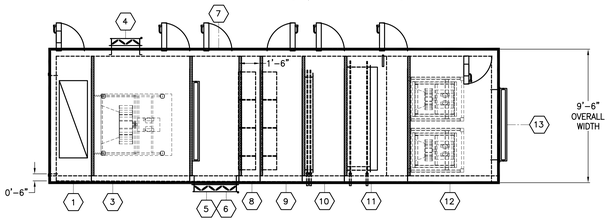
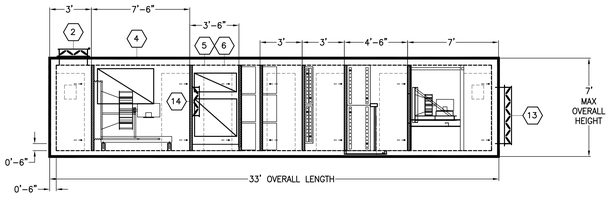
DEPT OF BLDGS 421302297 Job Number
ES0001810325 Scan Code

33

CS-ACS-S-3 AND CS-ACS-S-4
DEPLOYED SHED
AIR CONDITIONING SYSTEM
(15,000 CFM EA)



››› AIRFLOW ›››
PLAN VIEW



ELEVATION VIEW

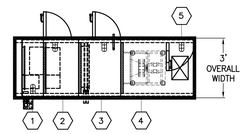
KEY:

1. ACCESS SECTION
2. 66x24 RA SD (15,000)
3. EXHAUST FAN SECTION WITH ACCESS SECTION
4. 48x30 SPILL SD (11,250)
5. 36x16 MIN OA SD (3,750)
6. 36x32 MAX OA SD (11,250)
7. RETURN AIR/OUTSIDE AIR MIXING PLENUM WITH ACCESS SECTION

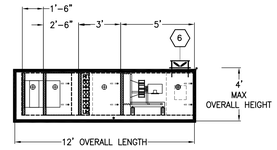
KEY (ctd):

8. FILTER BANK No. 1 & No. 2
9. FILTER BANK No. 3 WITH ACCESS SECTION
10. HEATING COIL WITH ACCESS SECTION
11. COOLING COIL WITH ACCESS SECTION
12. SUPPLY FAN SECTION WITH ACCESS SECTION
13. 84x48 DISCHARGE SD (15,000)
14. 60x24 RETURN AIR SD (11,250)

CS-HV-3-2
CELLAR LEVEL
HEATING AND VENTILATING SYSTEM
(2,500 CFM)



››› AIRFLOW ›››
PLAN VIEW

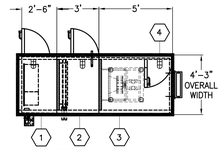


ELEVATION VIEW

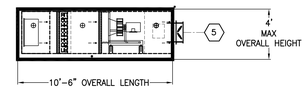
KEY:

1. FILTER BANK No. 1
2. FILTER BANK No. 2 WITH ACCESS SECTION
3. HEATING COIL SECTION
4. SUPPLY FAN SECTION
5. ACCESS DOOR
6. 20x14 DISCHARGE OPENING

CS-HV-67-1
CULTURE SHED STORAGE ROOM
HEATING AND VENTILATING SYSTEM
(1,500 CFM)



››› AIRFLOW ›››
PLAN VIEW

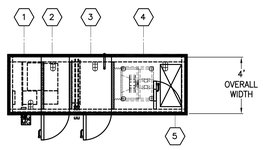


ELEVATION VIEW

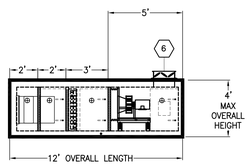
KEY:

1. FILTER BANK WITH ACCESS SECTION
2. HEATING COIL SECTION
3. SUPPLY FAN SECTION
4. ACCESS DOOR
5. 20x16 DISCHARGE OPENING

CS-HV-3-1
LOADING DOCK
HEATING AND VENTILATING SYSTEM
(6,000 CFM)



››› AIRFLOW ›››
PLAN VIEW

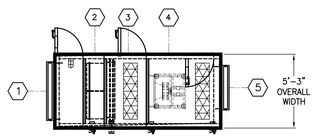


ELEVATION VIEW

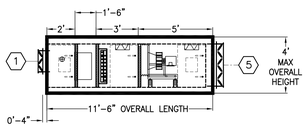
KEY:

1. FILTER BANK No. 1
2. FILTER BANK No. 2 WITH ACCESS SECTION
3. HEATING COIL SECTION
4. SUPPLY FAN SECTION
5. ACCESS DOOR
6. 36x18 DISCHARGE SD

CS-HV-7-1
CHILLER PLANT
HEATING AND VENTILATING SYSTEM
(5,000 CFM)



››› AIRFLOW ›››
PLAN VIEW

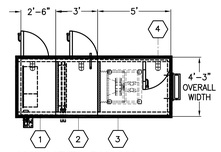


ELEVATION VIEW

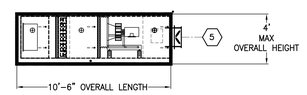
KEY:

1. 48x18 OA SD (5,000)
2. FILTER BANK WITH ACCESS SECTION
3. HEATING COIL SECTION
4. PLENUM SUPPLY FAN
5. 36x18 DISCHARGE OPENING

CS-HV-69-1
COGEN PLANT
HEATING AND VENTILATING SYSTEM
(2,500 CFM)



››› AIRFLOW ›››
PLAN VIEW



ELEVATION VIEW

KEY:

1. FILTER BANK WITH ACCESS SECTION
2. HEATING COIL SECTION
3. SUPPLY FAN SECTION
4. ACCESS DOOR
5. 26x14 DISCHARGE OPENING

BUILDING DEPARTMENT NOTE

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PROFESSIONAL'S STATEMENT

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Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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KEY PLAN

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44	33	DOB AMENDMENT 5	04.08.2016
19		DOB AMENDMENT 3	09.16.2015
17		DOB AMENDMENT 02	09.03.2015
12	6	ADDENDUM #1	07.22.2015
10		100% CONSTRUCTION DOCUMENTS	03.18.2015

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TITLE
HVAC
DETAIL SHEET No. 10

DRAWING NO.
M-610.01

B-SCAN NO.
M-610.01

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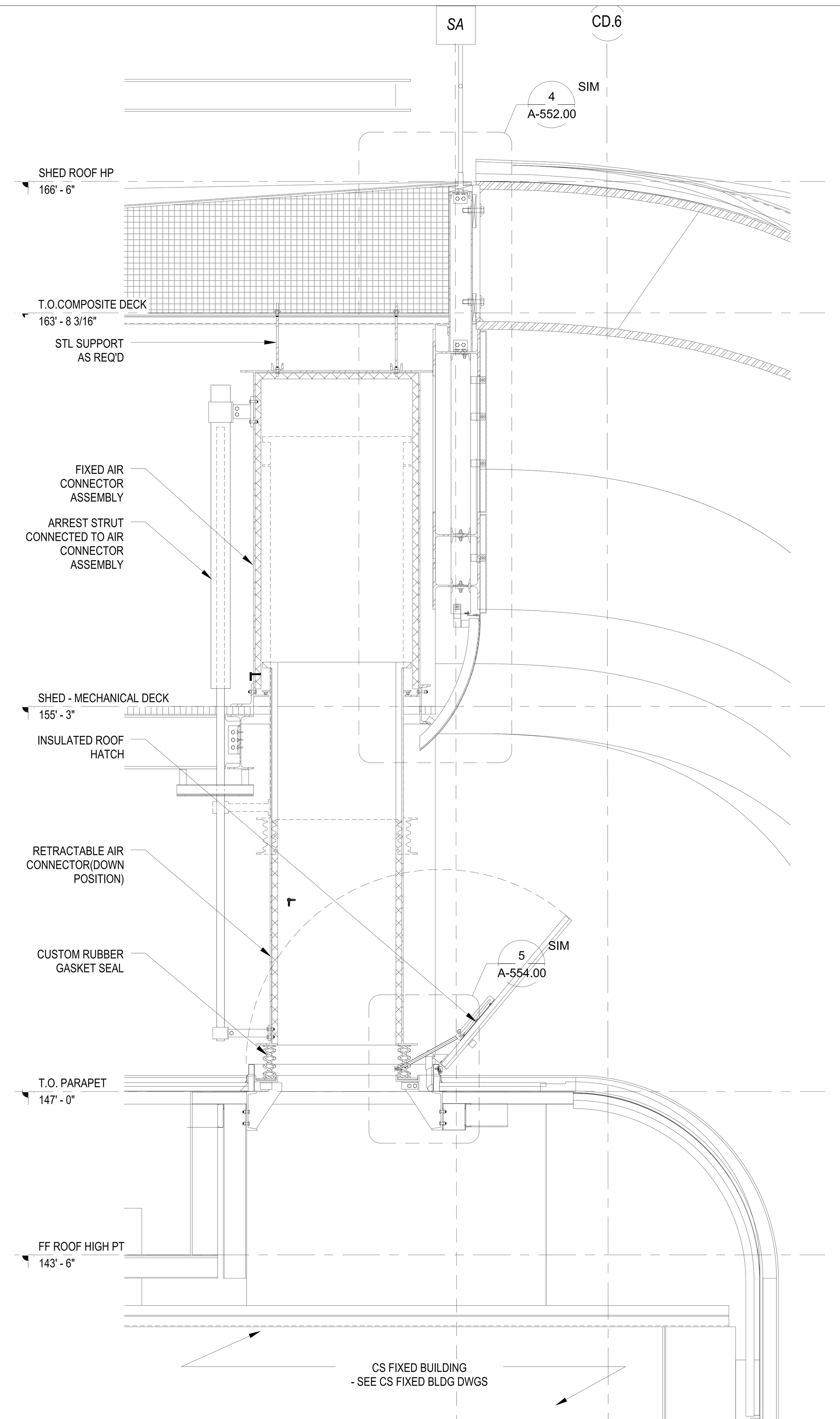
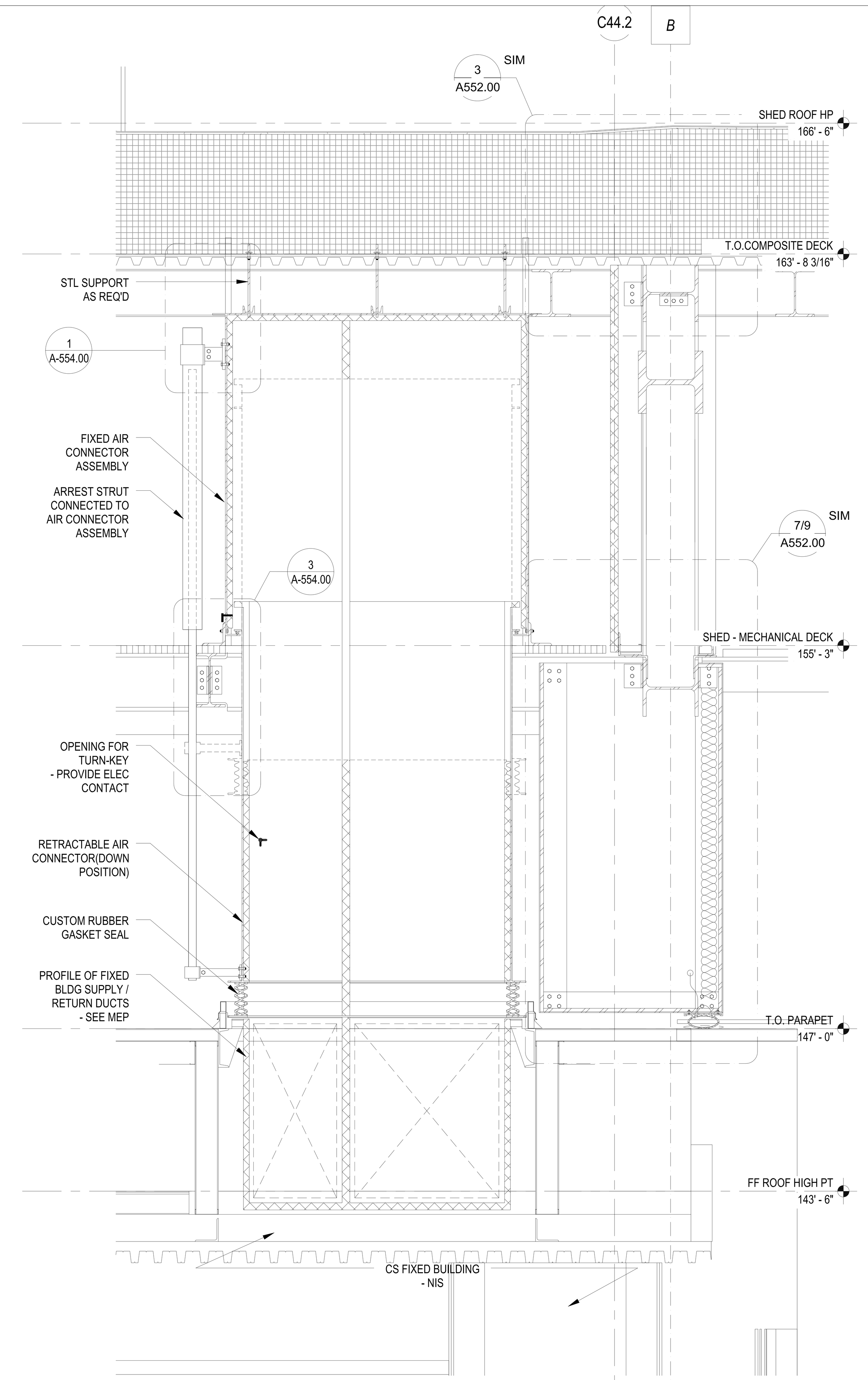


RETRACTABLE SHED SUPPLY/RETURN DUCT CONNECTION DETAIL
SCALE: NTS



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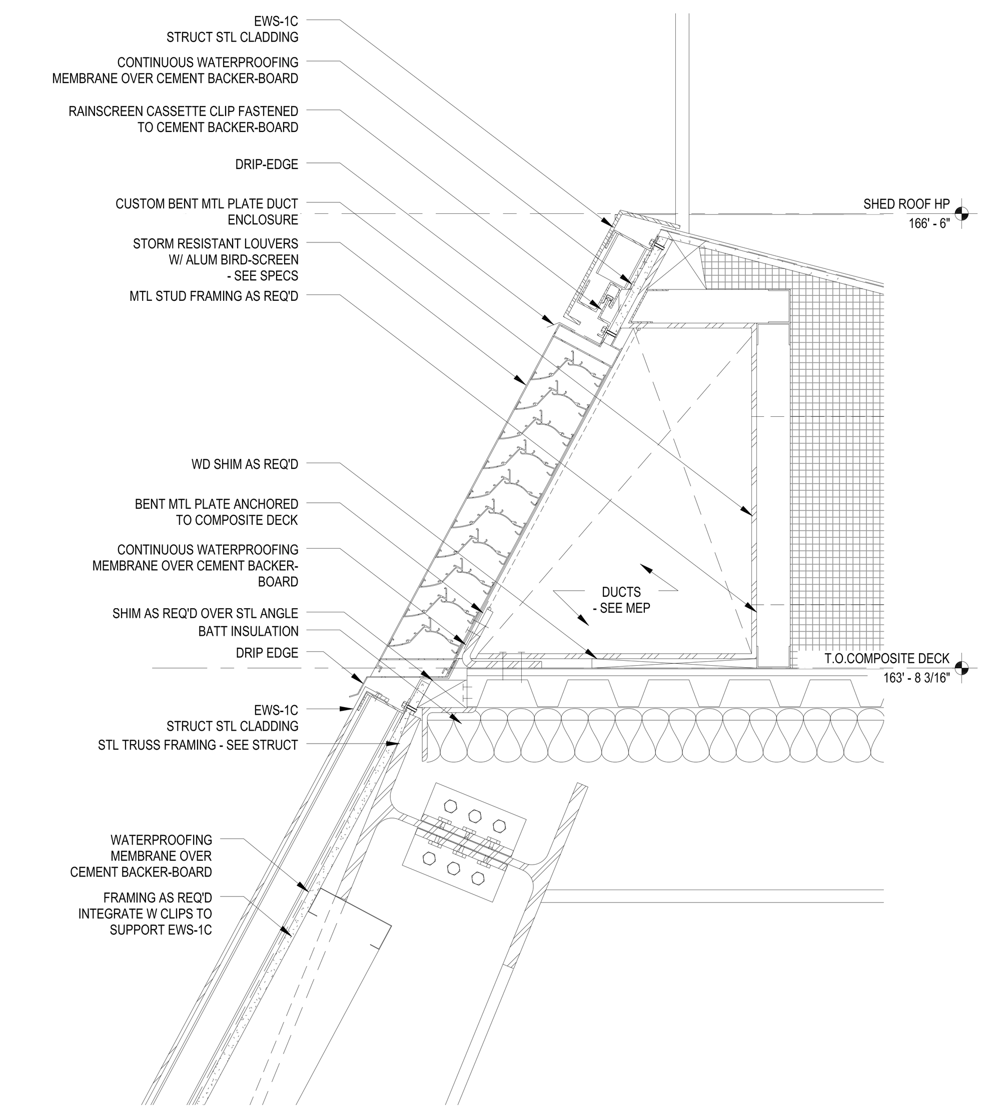
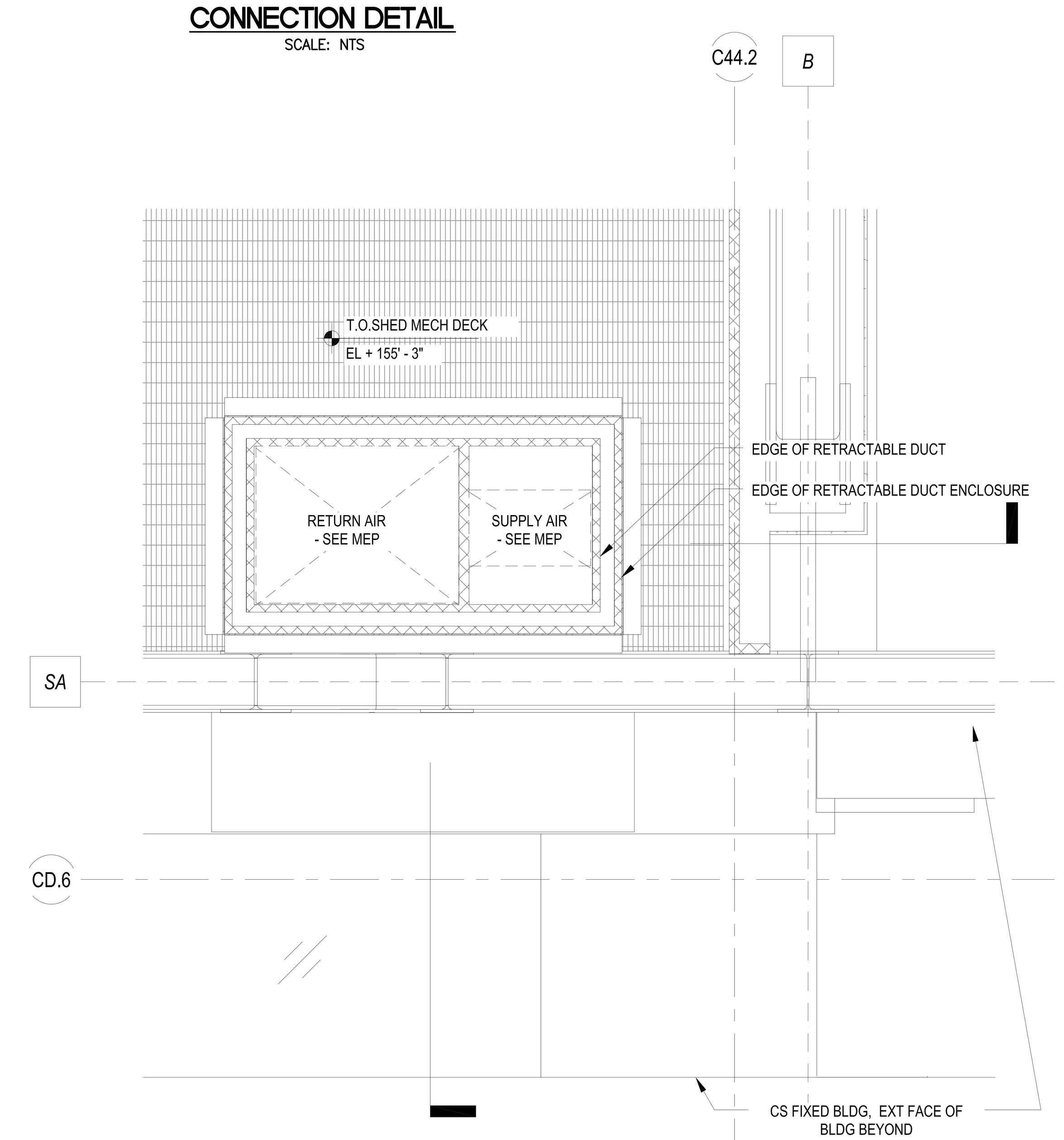
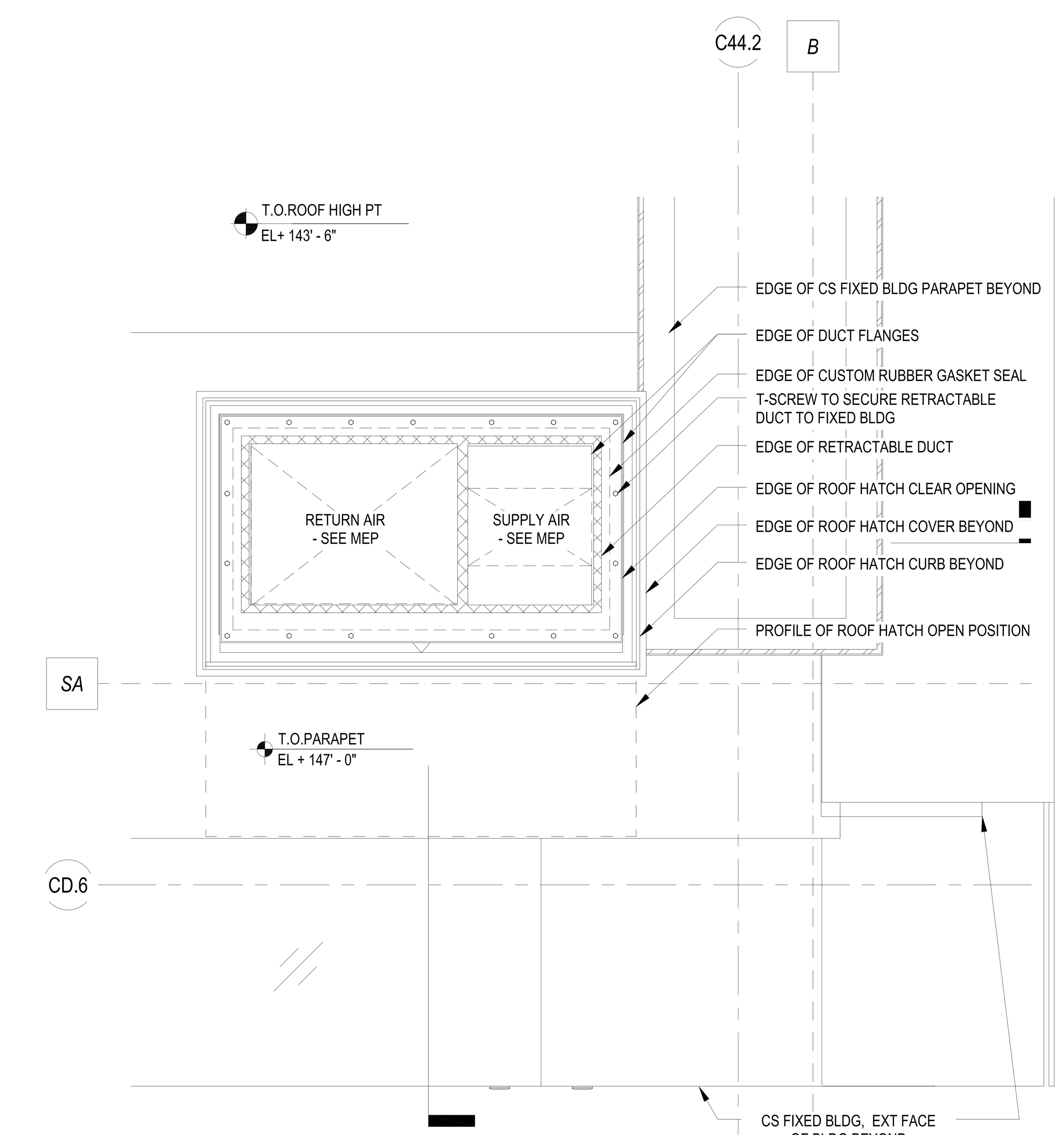


SHED OUTSIDE AIR INTAKE LOUVER/PLENUM DETAIL
SCALE: NTS



SHED SUPPLY/RETURN DUCT DROP DETAIL AT SHED THEATRICAL DECK
SCALE: NTS



SHED SUPPLY/RETURN DUCT DROP DETAIL AT FIXED BUILDING ROOF
SCALE: NTS

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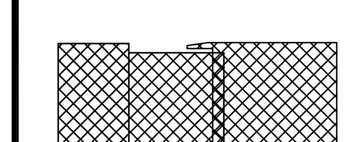
KEY PLAN



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PROJECT NUMBER
14073.N.000

TITLE
HVAC DETAIL SHEET No. 11

DRAWING NO.
M-611.00

B-SCAN NO.

M-611.00

87 of 89

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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

SECONDARY SYSTEMS PIPING

- PUMP DISCHARGE PIPING — CWPD
- COLD WATER FROM GRAVITY TANK — GT
- DOMESTIC WATER INCOMING SERVICE — CW(S)
- COLD WATER PNEUMATIC TANK ZONE — P
- HOT WATER PNEUMATIC TANK ZONE — P
- HOT WATER CIRCULATION PNEUMATIC TANK ZONE — P
- COLD WATER STREET PRESSURE ZONE — ST
- HOT WATER STREET PRESSURE ZONE — ST
- HOT WATER CIRCULATION STREET PRESSURE ZONE — ST
- COOLING TOWER PUMP DISCHARGE PIPING — CTPD
- IRRIGATION WATER PIPING — IRR
- AUTO BALL DRIP DISCHARGE PIPING — ABD
- INDIRECT WASTE PIPING — IW
- SUMP DISCHARGE PIPING — SD
- SANITARY RELIEF VENT PIPING — RV
- SANITARY YOKE VENT PIPING — YV
- EJECTOR DISCHARGE PIPING — ED
- GREASE WASTE PIPING — GR

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
- PIPE ROLL

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

ABBREVIATION SCHEDULE

A	AIR
ABD	AUTOMATIC BALL DRIP
AD	AREA DRAIN
ADJ.	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFP	AUTOMATIC FIRE PUMP
AFPH	ANTI-FREEZE POST HYDRANT
AFWH	ANTI-FREEZE WALL HYDRANT
AI	AIR INTAKE
AP	ACCESS PANEL
Ar	ARGON
@	AT
AUTO	AUTOMATIC
AV	ACID VENT
AW	ACID WASTE
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BLKHD	BULKHEAD
BMS	BUILDING MANAGEMENT SYSTEM
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BR	BRANCH
BSMT	BASEMENT
BW	BLACK WATER
BWV	BLACK WATER VENT
BWW	BLACK WATER WASTE
CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT(ITIOUS)
CF	CUBIC FEET
CI	CAST IRON
CLG	CEILING
CLOS	CLOSET
CO	CAPPED OUTLET
CO2	CARBON DIOXIDE
CODP	CLEAN OUT DECK PLATE
COL	COLUMN
COMP'T	COMPLIMENT
CONC	CONCRETE
COND	CONDENSATE
CTPD	COOLING TOWER PUMP DISCHARGE
CONF	CONFERENCE
CORR	CORRIDOR
CONST	CONSTRUCTION
CON'T	CONTINUATION
CONV	CONVECTOR
COWP	CLEAN OUT WALL PLATE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CT	COOPER TUBE
CTMU	COOLING TOWER MAKE UP
CV	CHECK VALVE
CW	COLD WATER
CWPD	COLD WATER PUMP DISCHARGE
CWVO	COLD WATER VALVED OUTLET
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DCTIRN	DUCTILE IRON
DCV	DOUBLE CHECK VALVE.
DET	DETAIL
DI	DEIONISED
DIAG	DIAGONAL
DIAM	DIAMETER
DIM	DIMENSION
DIR	DEIONISED RETURN
DN	DOWN
DP	DRY PIPE
DPV	DRY PIPE VALVE
DR	DRAIN
DRW	DRINKING WATER
DW	DISHWASHER
DWG	DRAWING
DWPD	DOMESTIC WATER PUMP DISCHARGE
EA.	EACH
ED	EJECTOR DISCHARGE
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EMR	ELEVATOR MACHINE ROOM
ENCL	ENCLOSURE
ENGNR	ENGINEER
ENTR	ENTRANCE
EOS	END/EDGE OF SLAB
EQUIP	EQUIPMENT
EXIST	EXISTING
EXH	EXHAUST
EXP	EXPRESS
EXP. JT.	EXPANSION JOINT
EXT	EXTERIOR
F	FIRE
FAI	FRESH AIR INTAKE
FD	FLOOR DRAIN
FDN	FOUNDATION
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET

FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FIN	FINISH(ED)
FIN.FL	FINISH(ED) FLOOR
FIN.GR	FINISHED GRADE
FL	FLOOR
FPRF	FIREPROOFING
FPSC	FIREPROOF SELF CLOSING
FS	FIRE SERVICE PIPE
FSK	FLOOR SINK
FSP	FIRE STANDPIPE
FT	FOOT, FEET
FTG	FITTING
FXT	FIXTURE
G	GAS (LOW PRESSURE)
GA	GAUGE
GAL	GALLONS
GALV	GALVANIZED
GC	GENERAL CONTRACTING
GD	GARAGE DRAIN
GEN	GENERAL
G(HP)	GAS (HIGH PRESSURE)
G(MP)	GAS (MEDIUM PRESSURE)
GR	GREASE
GRD	GRADE
GT	GRAVITY TANK
GV	GAS VENT
GW	GRAY WATER
GWV	GRAY WATER VENT
GWW	GRAY WATER WASTE
HB	HOSE BIBB
HC	HANDICAPPED
He	HELIUM
HGT	HEIGHT
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
H2	HYDROGEN
HTG	HEAT(ING)
HTR	HEATER
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HW	HOT WATER
HWC	HOT WATER CIRCULATION
HWH	HOT WATER HEATER
HZ	HIGH ZONE
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INSUL	INSULATION
IRR	IRRIGATION
IW	INDIRECT WASTE
JAN	JANITOR
JAN.CL.	JANITOR'S CLOSET
JP	JOCKEY PUMP
JT	JOINT
L	LEADER
LAB	LABORATORY
LP	LOW POINT
LV	LOCAL VENT (W/BEDPAN WASHERS)
LVR	LOUVER
LZ	LOW ZONE
MA	MEDICAL AIR
MACH	MACHINE
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MER	MECHANICAL EQUIPMENT ROOM
MEZZ	MEZZANINE
MFR	MANUFACTURE
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
MTG	MEETING
MTL	METAL
MV	MEDICAL VACUUM
MZ	MID ZONE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
No.	NUMBER
NO	NORMALLY OPEN
NOM	NOMINAL
N2	NITROGEN
N2O	NITROUS OXIDE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OVERFLOW DRAIN
OF	OVERFLOW
OFF	OFFICE
OPNG	OPENING
OPP	OPPOSITE

O2	OXYGEN
OVHD	OVERHEAD
P	PNEUMATIC
P-1 & P-1A	WATER CLOSET
P-3 & P-3A	LAVATORY
P-5	SHOWER
P-6 & P-6A	DRINKING FOUNTAIN
PA	PREACTION
PAN.	PANEL
PAV	PREACTION VALVE
PD	PLAZA DRAIN
PE	PASSENGER ELEVATOR
PERF	PERFORATED
PL	PLATE
PLAS	PLASTER
PLBG	PLUMBING
PO	PLUGGED OUTLET
POL	POLISH(ED)
PR	PAIR
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RCV	RISER CONTROL VALVE
RD	ROOF DRAIN
REFR	REFRIGERATOR
REINF	REINFORCED
REQT'S	REQUIREMENTS
REV	REVISED
RM	ROOM
RO	REVERSE OSMOSIS
RODI	REVERSE OSMOSIS DEIONISED
RODIR	REVERSE OSMOSIS DEIONISED RETURN
ROR	REVERSE OSMOSIS RETURN
RPDA	REDUSED PRESSURE DETECTOR ASSEMBLY
RPZ	REDUSED PRESSURE ZONE ASSEMBLY
RV	RELIEF VALVE
S	SOIL, SANITARY
SCHED	SCHEDULE
SD	SUMP DISCHARGE
SE	SERVICE ELEVATOR
SECT	SECTION
SH	SHOWER
SHT	SHEET
SIM	SIMILAR (TO)
SLV	SLEEVE
SPFCA	SPRINKLER FLOW CONTROL ASSEMBLY
SPO	SANITARY PLUGGED OUTLET
SPR	SPRINKLER
SQ	SQUARE
SQ.FT.	SQUARE FEET (#)
SS	STAINLESS STEEL
SSP	SPECIAL SERVICE FIRE PUMP
ST	STREET PRESSURE
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYMM	SYMMETRICAL
TDH	TOTAL DYNAMIC HEAD
TEL	TELEPHONE
TEMP	TEMPORARY
TER	TERRACE
THRU	THROUGH
TOS	TOP OF SLAB
TP	TRAP PRIMER
TTB	TIGHT TO BEAM
TW	TEPID WATER
TWC	TEPID WATER CIRCULATION
TYP.	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VACUUM
VCO	VALVED, CAPPED OUTLET
VE	VACUUM EXHAUST
VEX	VENT EXHAUST
VERT	VERTICAL
VEST	VESTIBULE
VO	VALVED OUTLET
VPO	VENT PLUGGED OUTLET
VTR	VENT THRU ROOF
W	WASTE
W/	WITH
WAGD	WASTE ANESTHETIC GAS DISPOSAL
WE	WASTE ANESTHETIC GAS DISPOSAL EXHAUST
WF	WIDE FLANGE
WH	WALL HYDRANT
WP	WATERPROOFING
WPO	WASTE PLUGGED OUTLET

DRAWING LIST

No.	DRAWING No.	BSCAN DRAWING No.	DRAWING NAME	2/16/2015 90% CONSTRUCTION DOCUMENTS	3/18/2015 100% CONSTRUCTION DOCUMENTS	7/22/2015 ADDENDUM #1 (6)	9/11/2015 ADDENDUM 4	9/16/2015 DOB AMENDMENT 3 (10)	4/8/2016 DOB AMENDMENT 5	6/30/2016 DOB AMENDMENT 6 (44)
1	P-001.00	P-001.01	PLUMBING COVER SHEET	●	●	●	●	●	●	●
2	P-1C1.00	P-100.00	PLUMBING FLOOR PLAN FIXED BUILDING LEVEL C1	●	●	●	●	●		●
3	P-100.00	P-101.00	PLUMBING FLOOR PLAN FIXED BUILDING LEVEL 00	●	●	●	●	●		●
4	P-101.00	P-102.00	PLUMBING FLOOR PLAN FIXED BUILDING LEVEL 01	●	●	●		●		●
5	P-102A.00	P-103.00	PLUMBING FLOOR PLAN FIXED BUILDING LEVEL 02	●	●	●		●		●
6	P-102B.00	P-104.00	PLUMBING FLOOR PLAN PLAZA LEVEL 02	●	●	●		●		●
7	P-103.00	P-105.01	PLUMBING FLOOR PLAN FIXED BUILDING LEVEL 03	●	●	●		●	●	●
8	P-104.00	P-106.01	PLUMBING FLOOR PLAN FIXED BUILDING LEVEL 04	●	●	●		●	●	●
9	P-105.00	P-107.01	PLUMBING FLOOR PLAN FIXED BUILDING LEVEL 05	●	●	●		●	●	●
10	P-106.00	P-108.01	PLUMBING FLOOR PLAN FIXED BUILDING LEVEL 06	●	●	●		●	●	●
11	P-107.00	P-109.01	PLUMBING FLOOR PLAN FIXED BUILDING LEVEL 07	●	●	●		●	●	●
12	P-108.00	P-110.01	PLUMBING FLOOR PLAN FIXED BUILDING LEVEL 08	●	●	●		●	●	●
13	P-109A.00	P-111.01	PLUMBING FLOOR PLAN + ROOF PLAN FIXED BUILDING LEVEL 09	●	●	●		●	●	●
14	P-109B.00	P-112.00	PLUMBING FLOOR PLAN DEPLOYED SHED MECHANICAL LEVEL						●	●
15	P-110B.00	P-114.00	PLUMBING ROOF PLAN DEPLOYED SHED						●	●
16	P-111.00	P-115.00	PLUMBING FLOOR PLAN TOWER D LEVEL 67, 69	●	●	●		●		●
17	P-400.00	P-400.00	DOMESTIC WATER RISER DIAGRAM	●	●	●		●		●
18	P-401.00	P-401.00	DOMESTIC WATER RISER DIAGRAM	●	●	●	●	●		●
19	P-402.00	P-402.00	SANITARY RISER DIAGRAM	●	●	●		●		●
20	P-403.00	P-403.01	STORM RISER DIAGRAM	●	●	●		●	●	●
21	P-404.00	P-404.00	GAS RISER DIAGRAM	●	●	●		●		●
22	P-501.00	P-501.01	PLUMBING SCHEDULE SHEET	●	●	●		●	●	●
23	P-601.00	P-601.00	PLUMBING DETAILS	●	●	●		●		●
24	P-602.00	P-602.00	TOILET ROOM DETAILS		●	●		●		●
25	P-701.00	P-701.00	BACKFLOW PREVENTER PLAN				●	●		●

NYC DOB SPECIAL INSPECTION NOTES

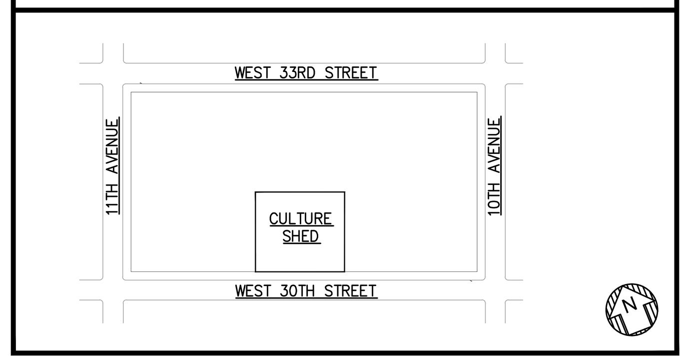
1. AN INDEPENDENT SPECIAL INSPECTOR SHALL BE RETAINED TO PERFORM SPECIAL INSPECTIONS AS WELL AS FILE FORM TR-1 FOR PLUMBING SYSTEM DESIGN AS DOCUMENTED ON THESE PLANS IN ACCORDANCE WITH THE NYC BUILDING CODE.
2. SPECIAL INSPECTION REQUIRED FOR FIRESTOPPING PER 2008 NYCBC 1704.25.

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.

PLOT PLAN & ZONING DATA

PROJECT ADDRESS: 545 WEST 30TH STREET
TAX BLOCK: 702
ZONING: C6-4
ZONING MAP: 8B



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.
8. DUE TO THE UNIQUE ASPECT OF THE MOVEABLE SHED COMPONENT OF THIS PROJECT, THIS CONTRACTOR SHALL WORK WITH THE OWNER, CONSTRUCTION MANAGER AND OTHER CONTRACTORS TO PROVIDE APPROPRIATE FLEXIBLE CONNECTIONS TO ENABLE THE SHED FOR DEPLOYMENT AND RECONNECTION AFTER DEPLOYED.

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 2008 BUILDING CODE OF THE CITY OF NEW YORK AND THE 2008 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 FULL ACCORDANCE WITH CHAPTER 4.
5. TRAPS FOR FIXTURES AND DRAIN LINES WILL BE PROVIDED 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. RAT PROOFING SHALL BE IN ACCORDANCE WITH SECTION PC 304.
12. TEMPORARY TOILET FACILITIES SHALL BE PROVIDED FOR WORKMAN AS PER SECTION PC 311.

BACKFLOW PREVENTOR & NYC D.E.P. NOTES:

1. THE INSTALLATION OF BACKFLOW PREVENTORS SHALL MEET ALL NYC DEP CROSS-CONNECTION CONTROL UNIT AND NYS DOH REQUIREMENTS.
2. IT IS UNLAWFUL TO REMOVE THIS DEVICE FOR ANY REASON UNLESS DEP IS NOTIFIED.
3. EACH BACKFLOW PREVENTOR SHALL BE TESTED ANNUALLY BY A NEW YORK STATE CERTIFIED TESTER.
4. THE ROOM WHERE BACKFLOW PREVENTORS ARE LOCATED HAS HEATING AND LIGHTING.
5. ONE WATTS LF709 BACKFLOW PREVENTER SHALL BE INSTALLED FOR EACH DOMESTIC WATER SERVICE.
6. BETWEEN SERVICE P.O.E. & BACKFLOW PREVENTOR, PIPES SHALL BE STENCILED AS FOLLOWS "FEED TO BACKFLOW PREVENTOR. DO NOT TAP OR CONNECT TO THIS LINE" AT 5 FOOT INTERVALS & AT WALL PENETRATION. DOMESTIC - BLACK LETTERS ON WHITE BACKGROUND. SIZE OF LETTERING SHALL BE HALF THE DIAMETER OF THE PIPING.
7. INTERNAL PROTECTION DEVICES, INCLUDING WATER SUPPLY TO HVAC EQUIPMENT, WILL BE PROVIDED AND INSTALLED ACCORDING TO THE DEPARTMENT OF BUILDINGS REQUIREMENTS,
8. AN OSHA APPROVED TEMPORARY LADDER SHALL BE READILY AVAILABLE FOR ACCESS TO HOUSE CONTROL VALVES LOCATED GREATER THAN 66" ABOVE FLOOR ELEVATION.
9. PIPES MUST BE PROTECTED FROM FREEZING.
10. TEST TEE MAY BE FACE UP, DOWN, OR SIDEWAYS. TEST TEE MUST BE CAPPED.
11. DISTANCE BETWEEN METER INLET CONTROL VALVE AND WATER METER IS TO BE EQUAL TO (5) TIMES PIPE DIAMETER (MINIMUM).
12. DISTANCE BETWEEN WATER METER AND BACKFLOW PREVENTOR IS TO BE EQUAL TO (3) TIMES PIPE DIAMETER (MINIMUM).
13. MAINTAIN 30" MINIMUM CLEAR IN FRONT OF ALL BACKFLOW PREVENTORS.
14. MAINTAIN 8" MINIMUM CLEAR BEHIND ALL BACKFLOW PREVENTORS FROM ALL WALLS & OBSTRUCTIONS.
15. MAINTAIN 12" MINIMUM CLEAR ABOVE ALL BACKFLOW PREVENTORS.

NYC DOB ENERGY FILING NOTES

1. ALL SERVICE WATER HEATING EQUIPMENT SHALL BE PROVIDED WITH CONTROLS TO ALLOW A SET POINT OF 110F FOR EQUIPMENT SERVING LAVATORY FAUCETS IN PUBLIC FACILITY RESTROOMS IN ACCORDANCE WITH NYC ECC 2014 SECTION 504.3.

2. ALL PIPING DISTRIBUTION FOR AUTOMATIC CIRCULATING HOT WATER SHALL BE PROVIDED WITH INSULATION THAT IS SIZED IN ACCORDANCE WITH 2011 NYC ECC SECTION 504.5. ALL HOT WATER AND HOT WATER CIRCULATION PIPING SHALL BE PROVIDED WITH 1" INSULATION PER SPECIFICATION SECTION 220700.

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Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DEPT OF BLDGS 121192397 Job Number
ES115711704 Scan Code

CULTURE SHED

545 West 30th Street
New York, New York 10001

OWNER
CULTURE SHED INC

ARCHITECTS
Diller Scofidio + Renfro Architects, DPC
601 West 26 Street #1815
New York, New York 10001
T: 212.260.7971

rockwellgroup
5 Union Sq. West, 8th Flr
New York, New York 10003
T: 212.463.0334
F: 212.463.0335

STRUCTURAL ENGINEER
Thornton Tomasetti
51 Madison Avenue
New York, New York 10010
T: 917.661.7800
F: 917.661.7801

MEP ENGINEER
Jaros Baum & Bolles
80 Pine Street
New York, New York 10005
T: 212.530.9300
F: 212.269.5894

FACADE CONSULTANT
Thornton Tomasetti
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KINETICS ENGINEER
Hardesty & Hanover
1501 Broadway
New York, New York 10036
T: 212.944.1150
F: 212.391.0297

LIGHTING DESIGNER
Tillotson Design Associates
40 Worth Street #1680
New York, New York 10013
T: 212.675.7760

THEATRE PLANNING & DESIGN
Fisher Dachs Associates
22 West 19th Street
New York, New York 10011
T: 212.691.3020

LIFE SAFETY
Code Consultants, Inc.
215 West 40th St, 15th Flr
New York, New York 10018
T: 212.216.9596

ENERGY MODEL/LEED
Viridian
50 Washington Street
Norwalk, CT 06854
T: 203.299.1411

ACOUSTIC/AUDIO-VISUAL
Akustiks
93 North Main Street
South Norwalk, CT 06854
T: 347.210.5540

VERTICAL TRANSPORTATION
Van Duesen & Associates
5 Regent Street, Suite 524
Livingston, NJ 07039
T: 973.994.9220

SPECIFICATIONS
Construction Specifications Inc.
PO Box 488
22 Tennent Road
Morganville, NJ 07751
T: 732.970.0700
F: 732.970.0790

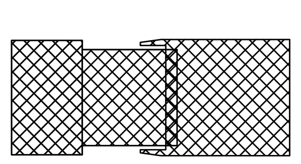
SECURITY
Ducibella Venter & Santore
1020 Sherman Avenue
Hamden, CT 06514
T: 203.288.6490

WATERPROOFING
James R. Gainfort AIA Consulting Architects PC
104 West 27th Street
New York, NY 10001
T: 212.736.3344

FACADE MAINTENANCE
Entek Engineering PLLC
166 Ames Street
New York, NY 10005
T: 212.896.3000

BRANDING/GRAPHICS
2x4 Global Design Consultancy
180 Varick Street 15th Floor
New York, NY 10014
T: 212.647.1170

KEY PLAN



ISSUE		PRINTING	DATE
55	44	DOB AMENDMENT 6	06.30.2016
44	33	DOB AMENDMENT 5	04.08.2016
19		DOB AMENDMENT 3	09.16.2015
18	10	ADDENDUM 4	09.11.2015
12	6	ADDENDUM 1	07.22.2015
10		100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

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PROJECT NUMBER
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TITLE

PLUMBING
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DRAWING NO.
P-001.00

B-SCAN NO.
P-001.01

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DEPT OF BLDGS 421302297 Job Number

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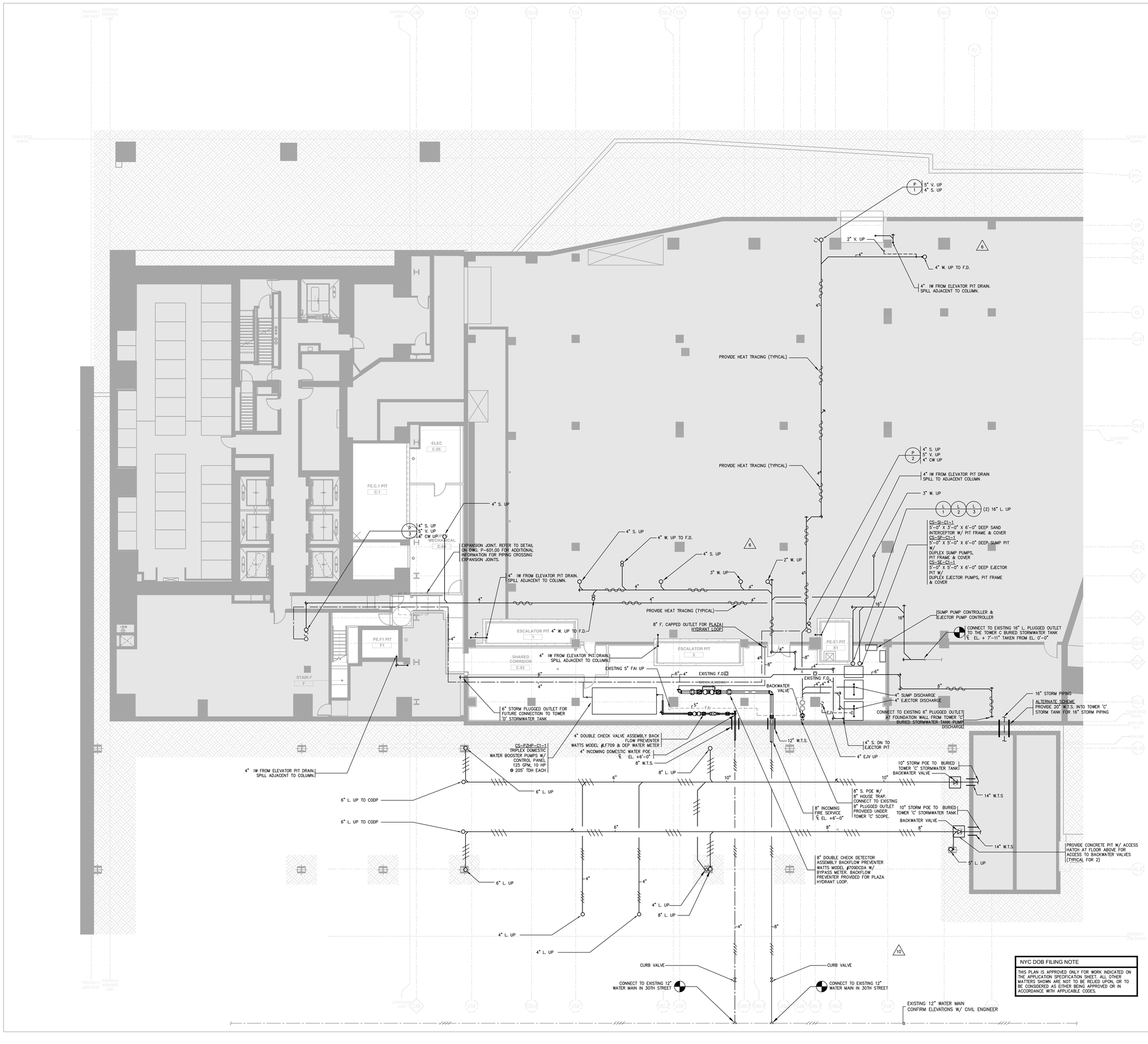

NOTES

1. PROVIDE TRAP PRIMERS AT ALL FLOOR DRAINS.

2. PROVIDE LINK SEALS FOR ALL PIPING AT THIS LEVEL PENETRATING THE 00 LEVEL SLAB.

3. ALL EXPOSED MEP SERVICES IN FRONT-OF-HOUSE SPACES TO BE PAINTED "P-5". ALL SERVICES ABOVE BAFFLE OR PERFORATED CEILINGS SHALL ALSO BE PAINTED 'P-5' UNLESS OTHERWISE DICTATED BY CODE. CONFIRM FINAL PAINT COLOR WITH ARCHITECT.

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Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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KEY PLAN

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9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

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PROJECT NUMBER
14073.N.000

TITLE

PLUMBING FLOOR PLAN
FIXED BUILDING LEVEL C1

DRAWING NO.
P-1C1.00

B-SCAN NO.
P-100.00

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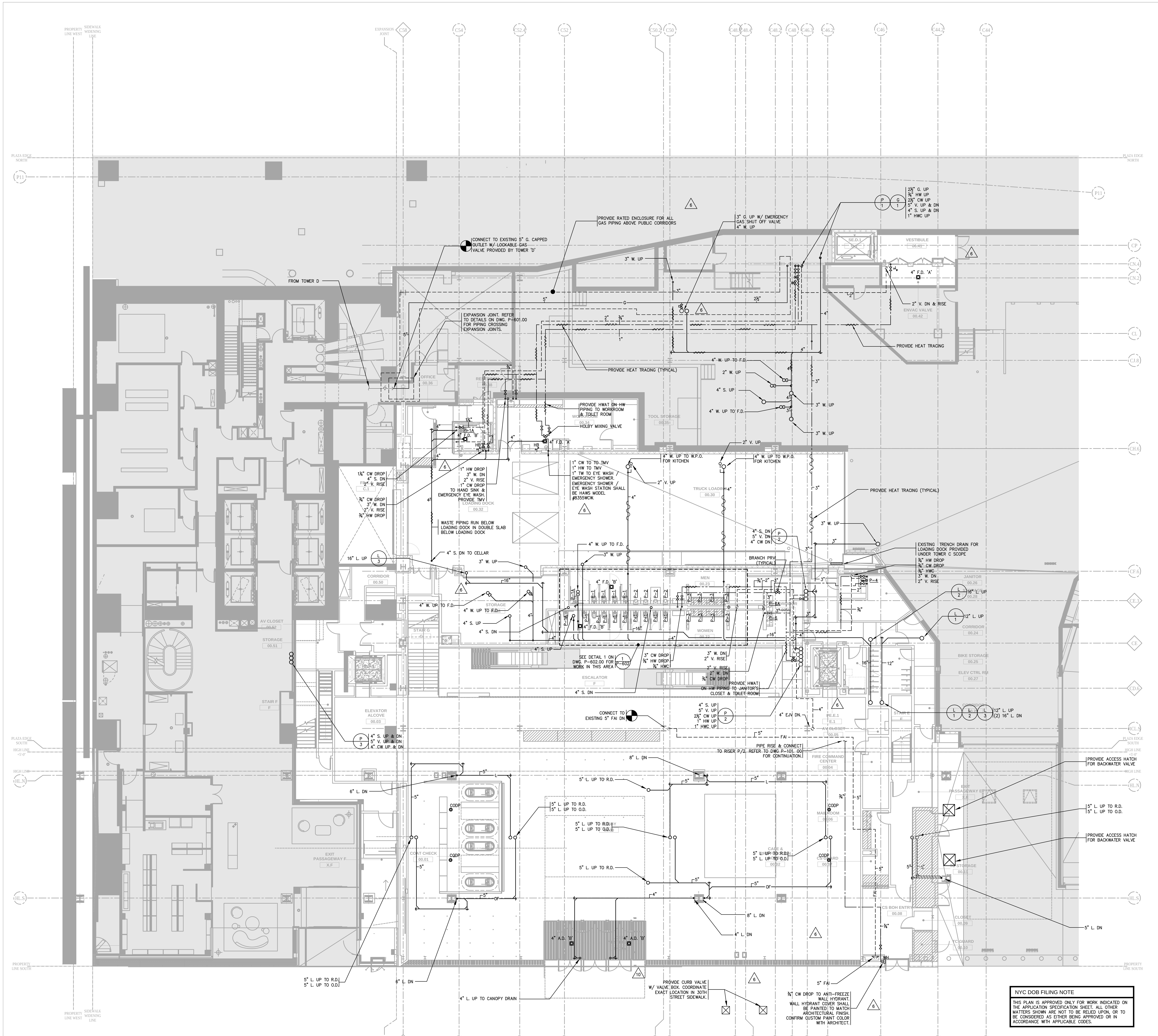
DEPT OF BLDGS 121192397 Job Number

ES399019940 Scan Code



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AMENDED APPLICATION
Date: 07/15/2016
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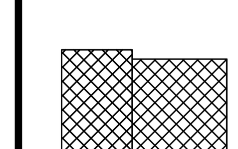

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PROJECT NUMBER
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TITLE

PLUMBING FLOOR PLAN
FIXED BUILDING LEVEL 00

DRAWING NO.
P-100.00

B-SCAN NO.

P-101.00

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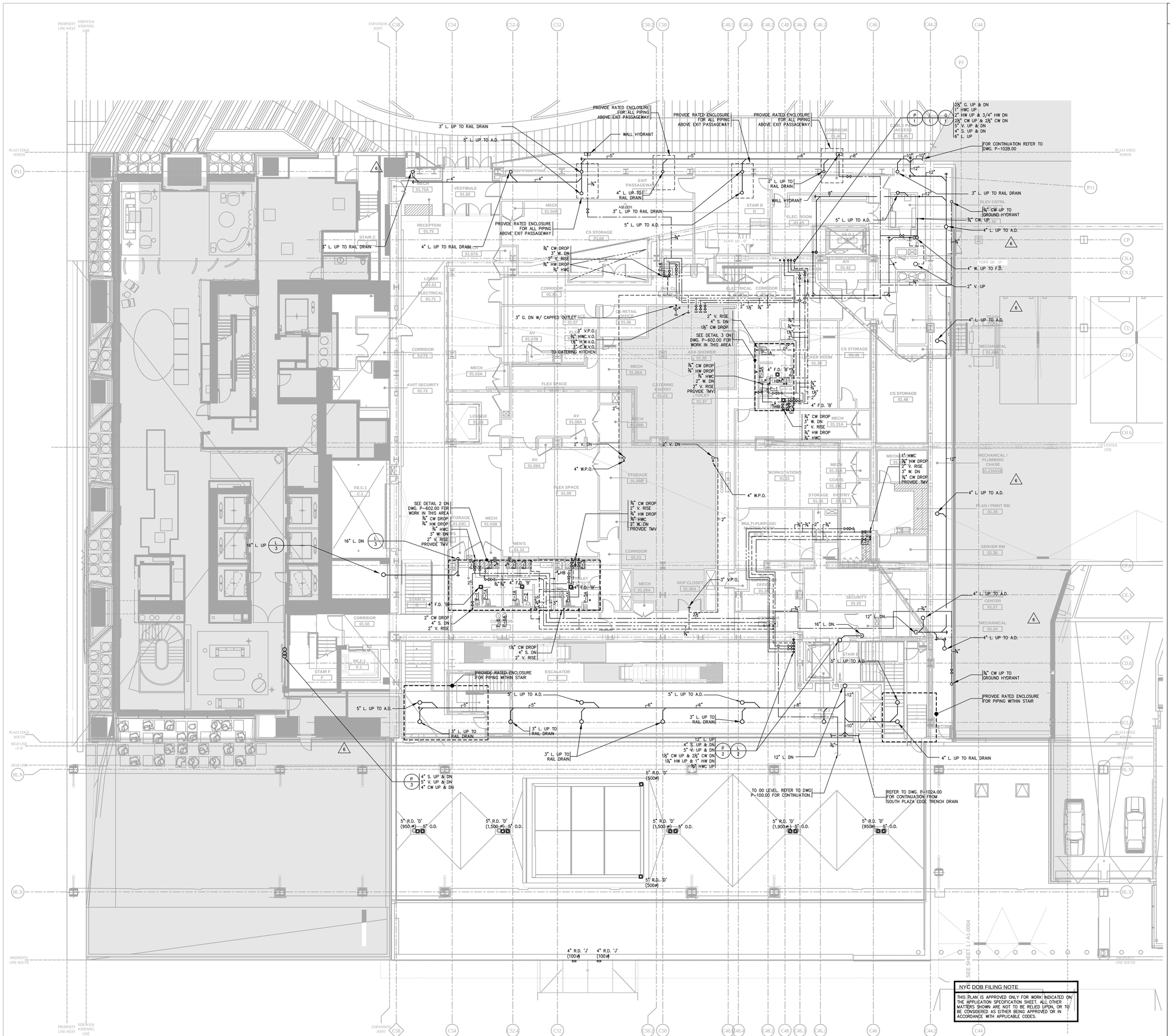

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Damian Titus
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APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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KEY PLAN

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55	44	DOB AMENDMENT 6	06.30.2016
19		DOB AMENDMENT 3	09.16.2015
12	6	ADDENDUM 1	07.22.2015
10		100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.19.2014

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PROJECT NUMBER
1407J.N.000

TITLE

PLUMBING FLOOR PLAN
FIXED BUILDING LEVEL 01

DRAWING NO.
P-101.00

B-SCAN NO.
P-102.00

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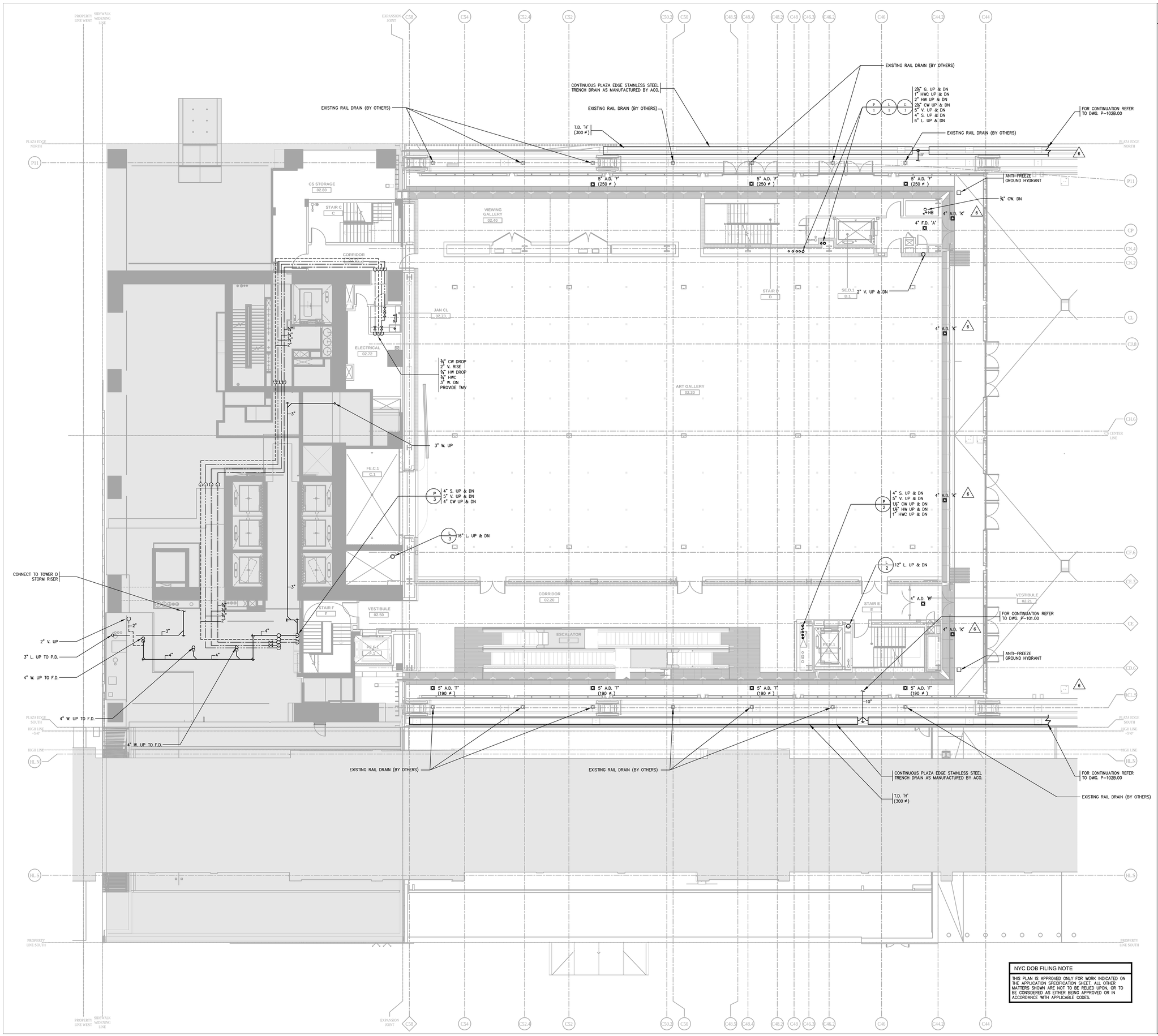

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Damian Titus
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Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
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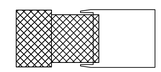
KEY PLAN



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TITLE

PLUMBING FLOOR PLAN
FIXED BUILDING LEVEL 02

DRAWING NO.
P-102A.00

B-SCAN NO.
P-103.00

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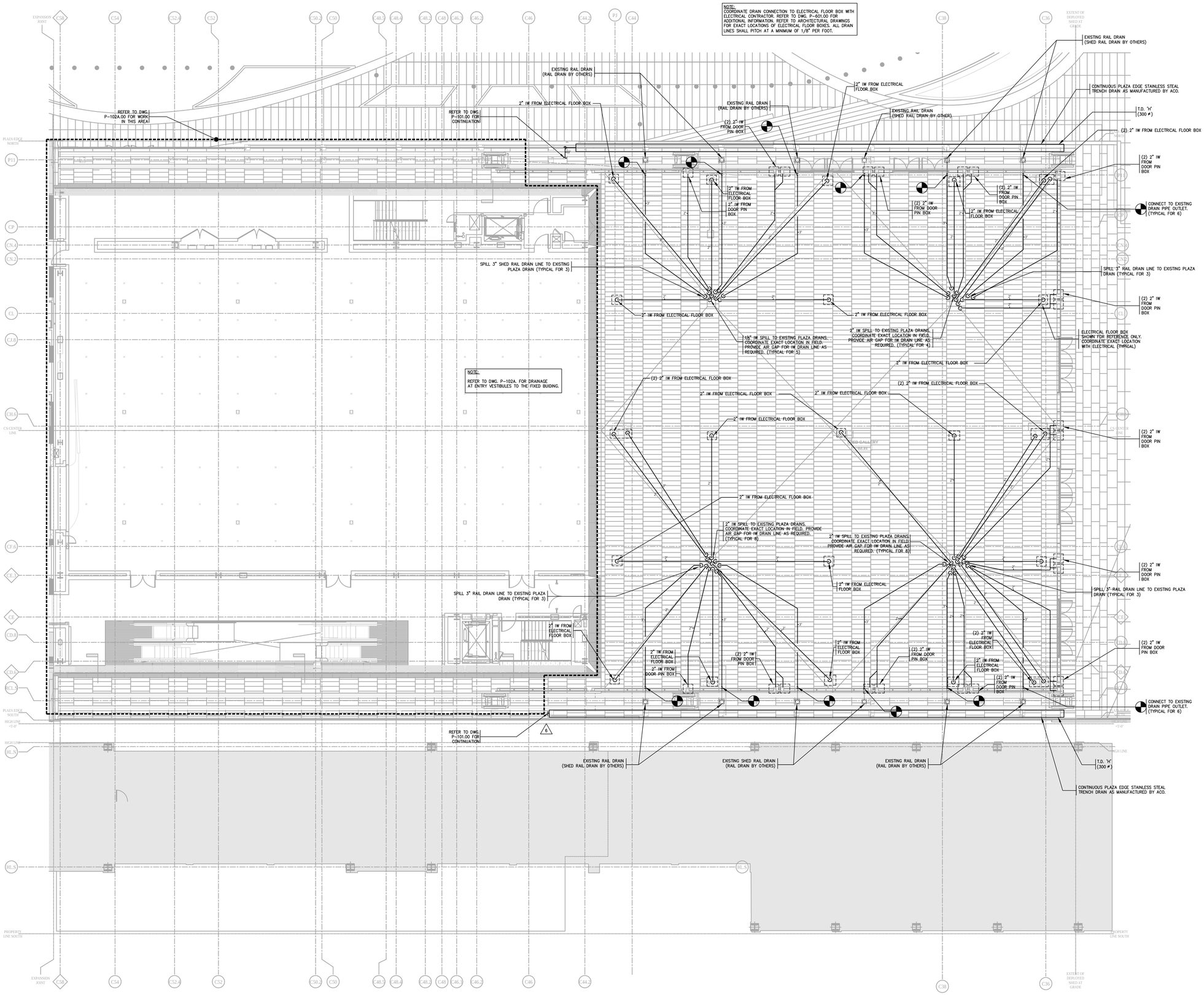

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PROJECT NUMBER
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PLUMBING FLOOR PLAN
PLAZA LEVEL 02

DRAWING NO.
P-102B.00

B-SCAN NO.
P-104.00

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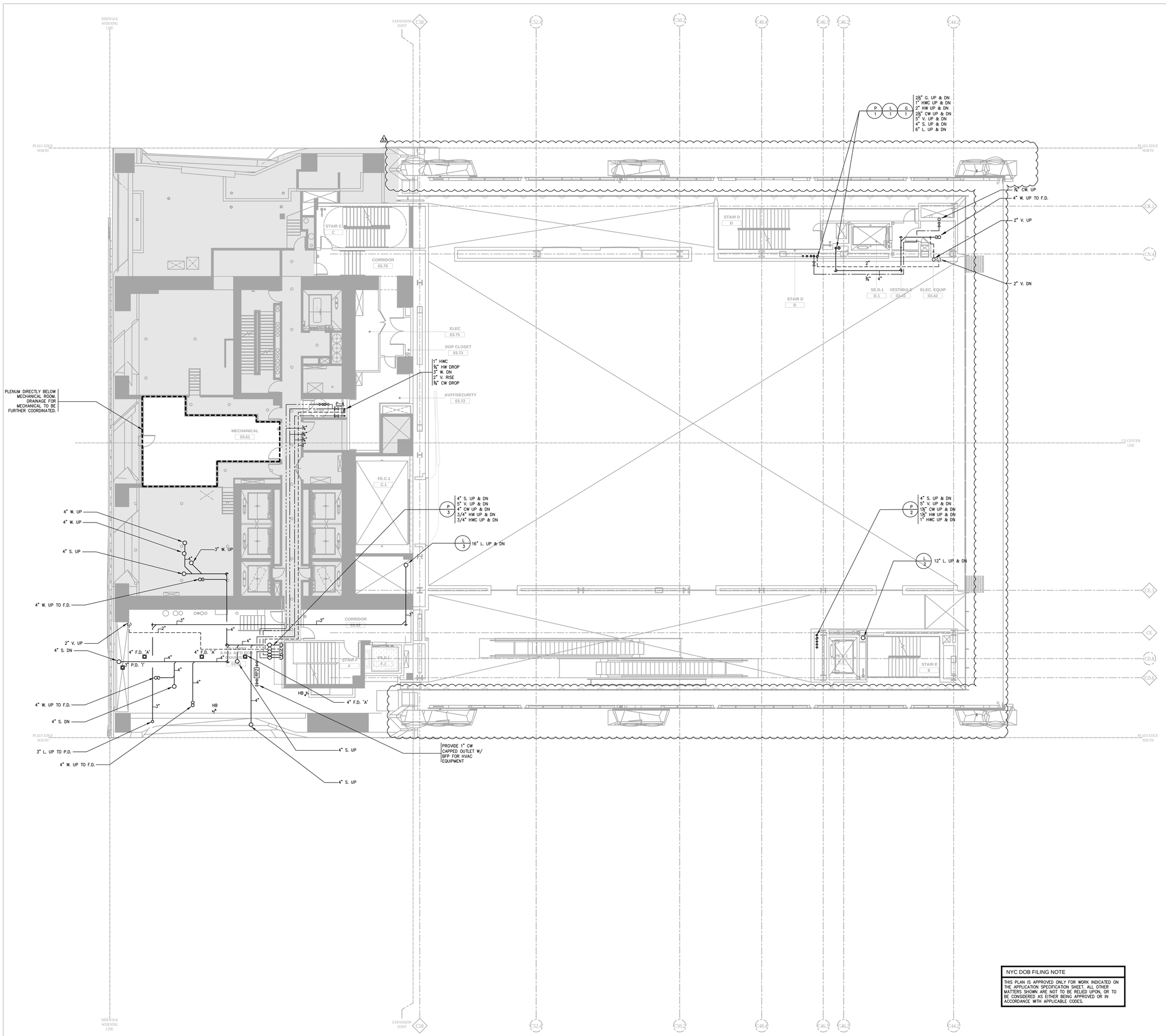

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Under Directive 2 of 1975
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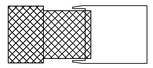

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PLUMBING FLOOR PLAN
FIXED BUILDING LEVEL 03

DRAWING NO.
P-103.00

B-SCAN NO.
P-105.01

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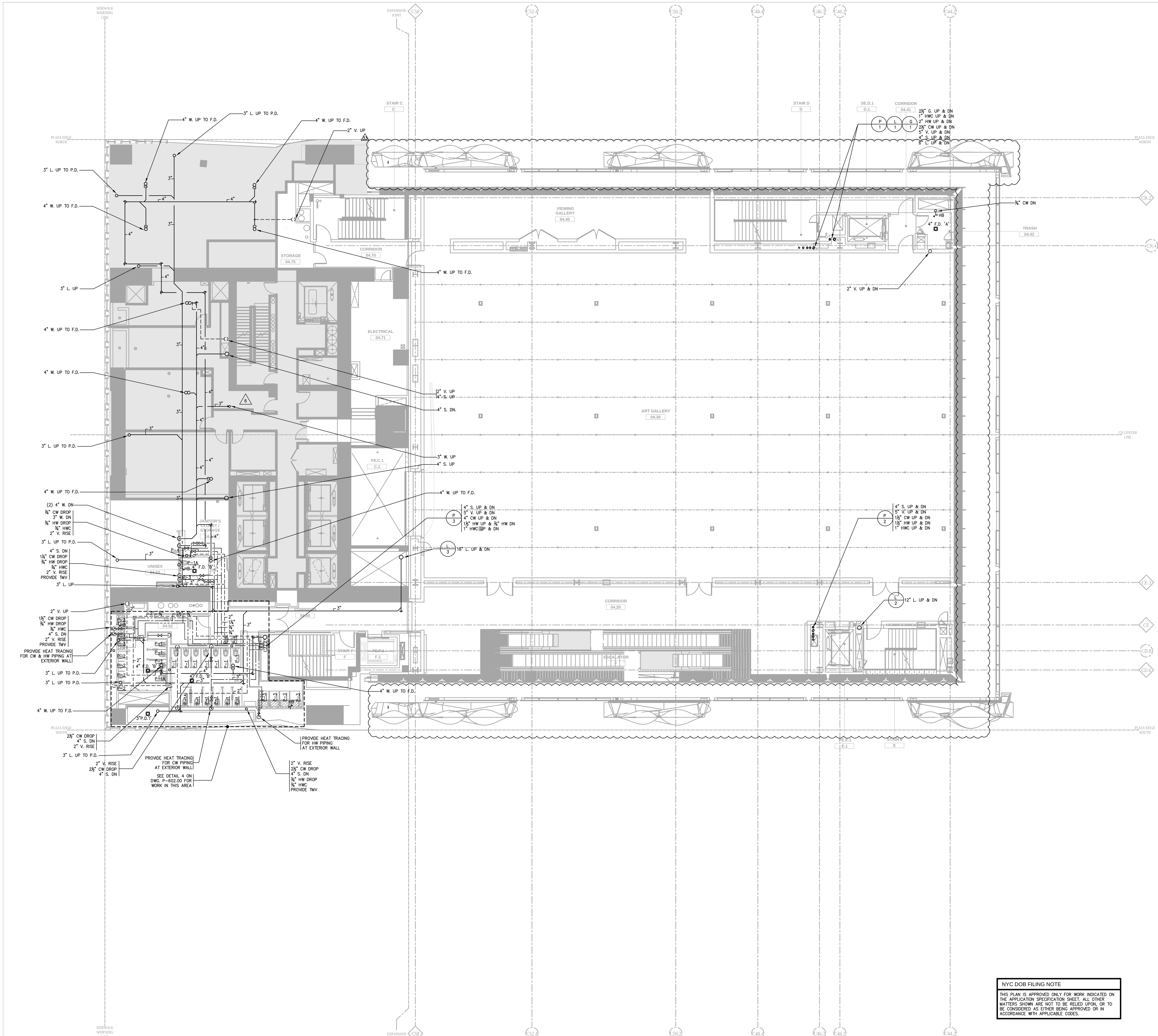

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PROJECT NUMBER
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TITLE

PLUMBING FLOOR PLAN
FIXED BUILDING LEVEL 04

DRAWING NO.
P-104.00

B-SCAN NO.

P-106.01

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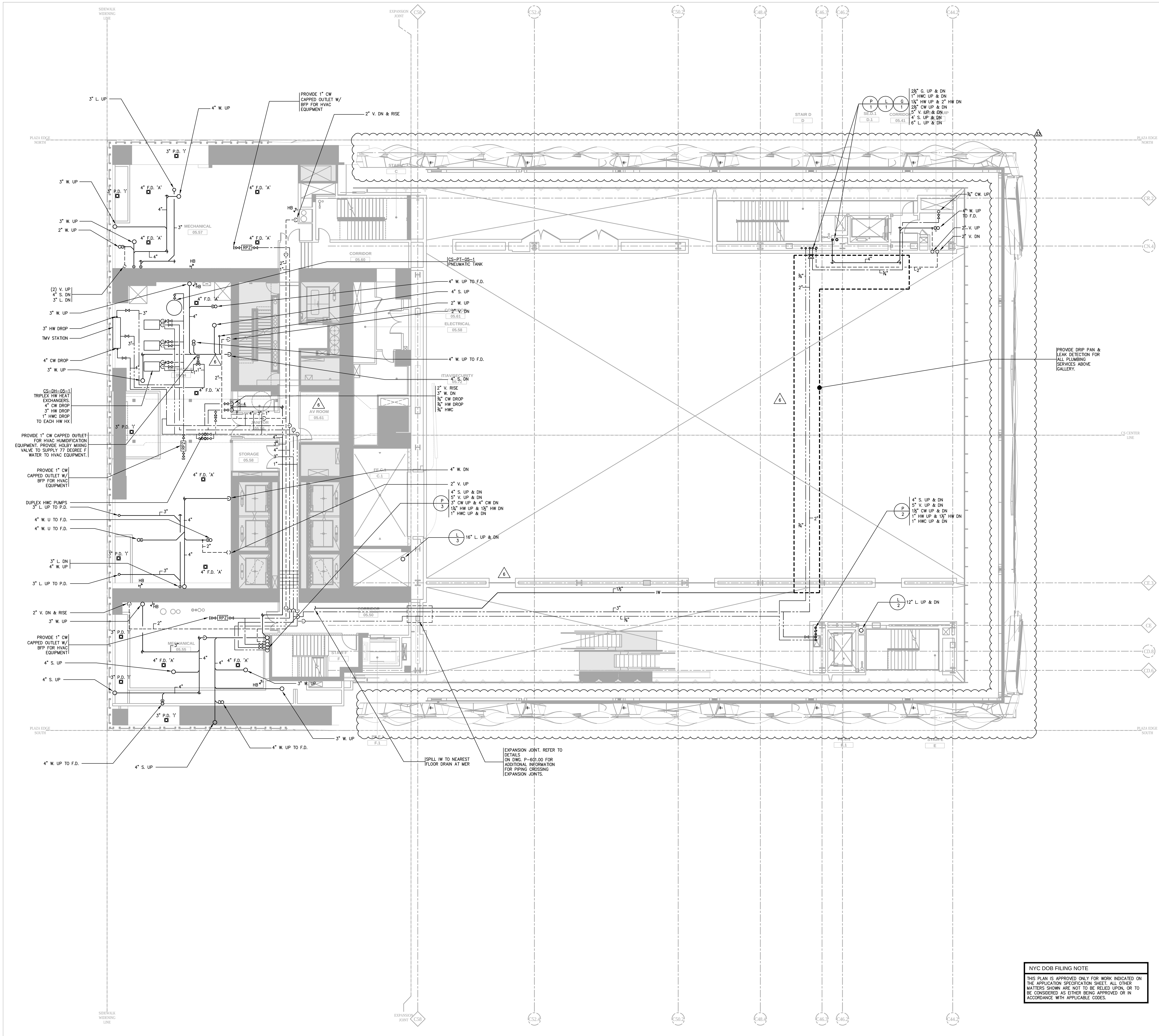

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Under Directive 2 of 1975
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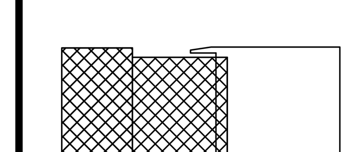

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PROJECT NUMBER
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PLUMBING FLOOR PLAN
FIXED BUILDING LEVEL 05

DRAWING NO.
P-105.00

B-SCAN NO.

P-107.01

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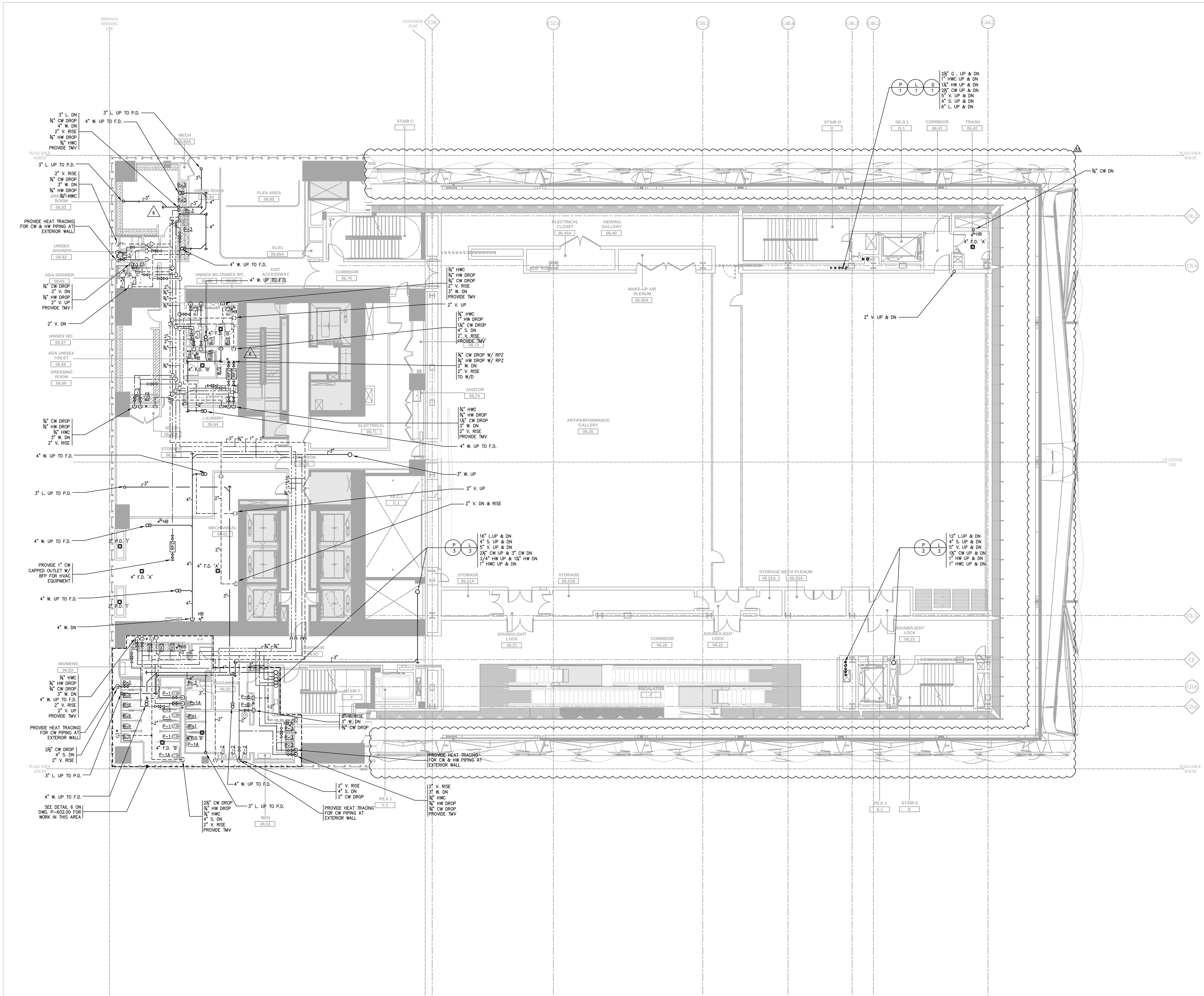

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PLUMBING FLOOR PLAN
FIXED BUILDING LEVEL 06

DRAWING NO.
P-106.00

B-SCAN NO.
P-108.01

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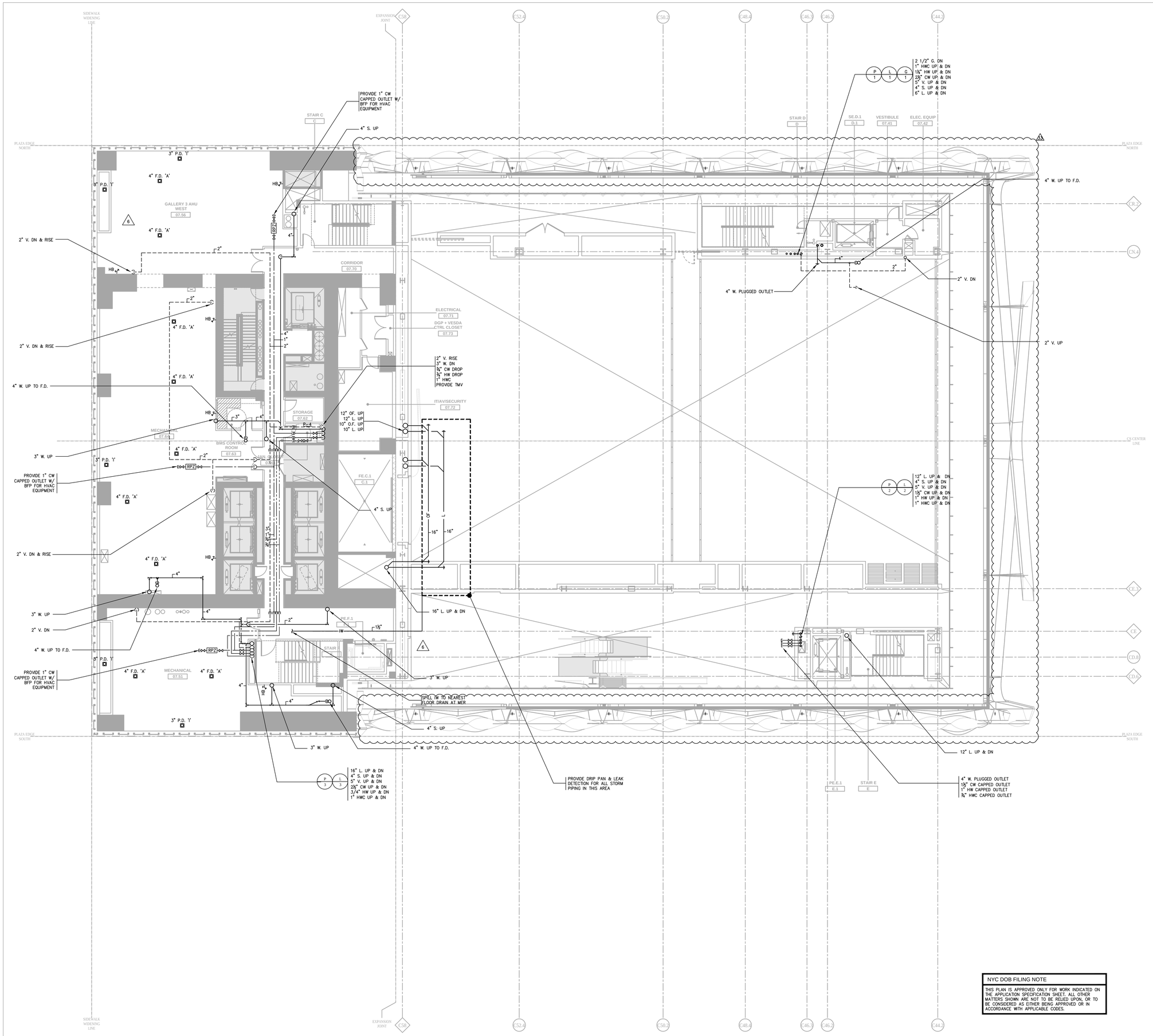

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Damian Titus

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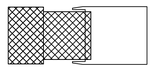

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PROJECT NUMBER
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PLUMBING FLOOR PLAN
FIXED BUILDING LEVEL 07

DRAWING NO.
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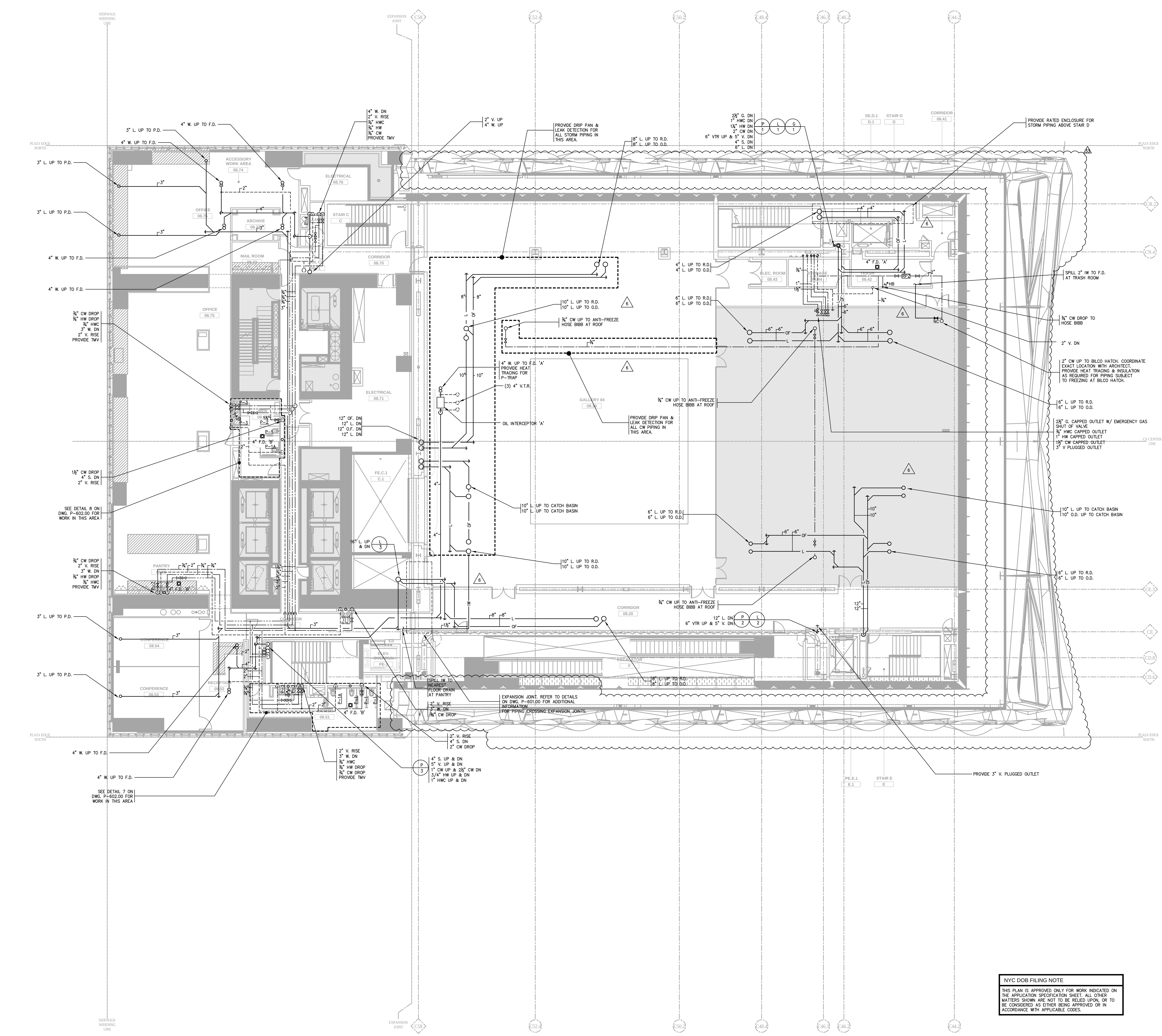

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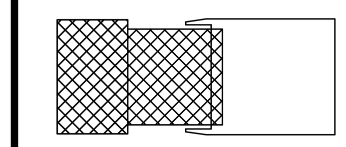

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10		100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

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PROJECT NUMBER
14073.N.000

TITLE

PLUMBING FLOOR PLAN
FIXED BUILDING LEVEL 08

Damian Titus
NYC Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

DRAWING NO.
P-108.00

B-SCAN NO.

P-110.01

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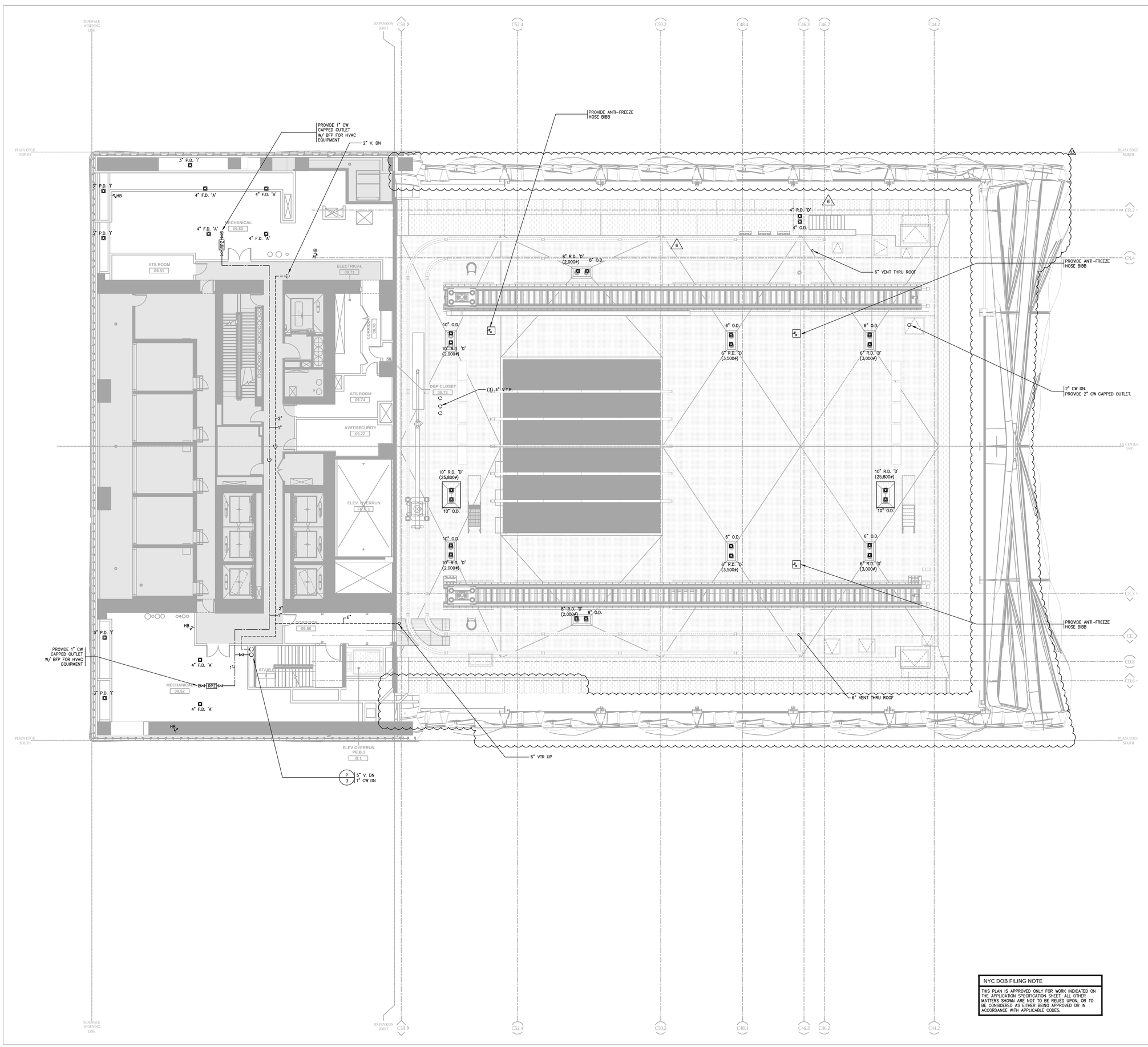

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Damian Titus
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APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
NYC Development Hub

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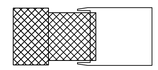

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PROJECT NUMBER
14073.N.000

TITLE

PLUMBING
FLOOR PLAN + ROOF PLAN
FIXED BUILDING LEVEL 09

DRAWING NO.
P-109A.00

B-SCAN NO.
P-111.01

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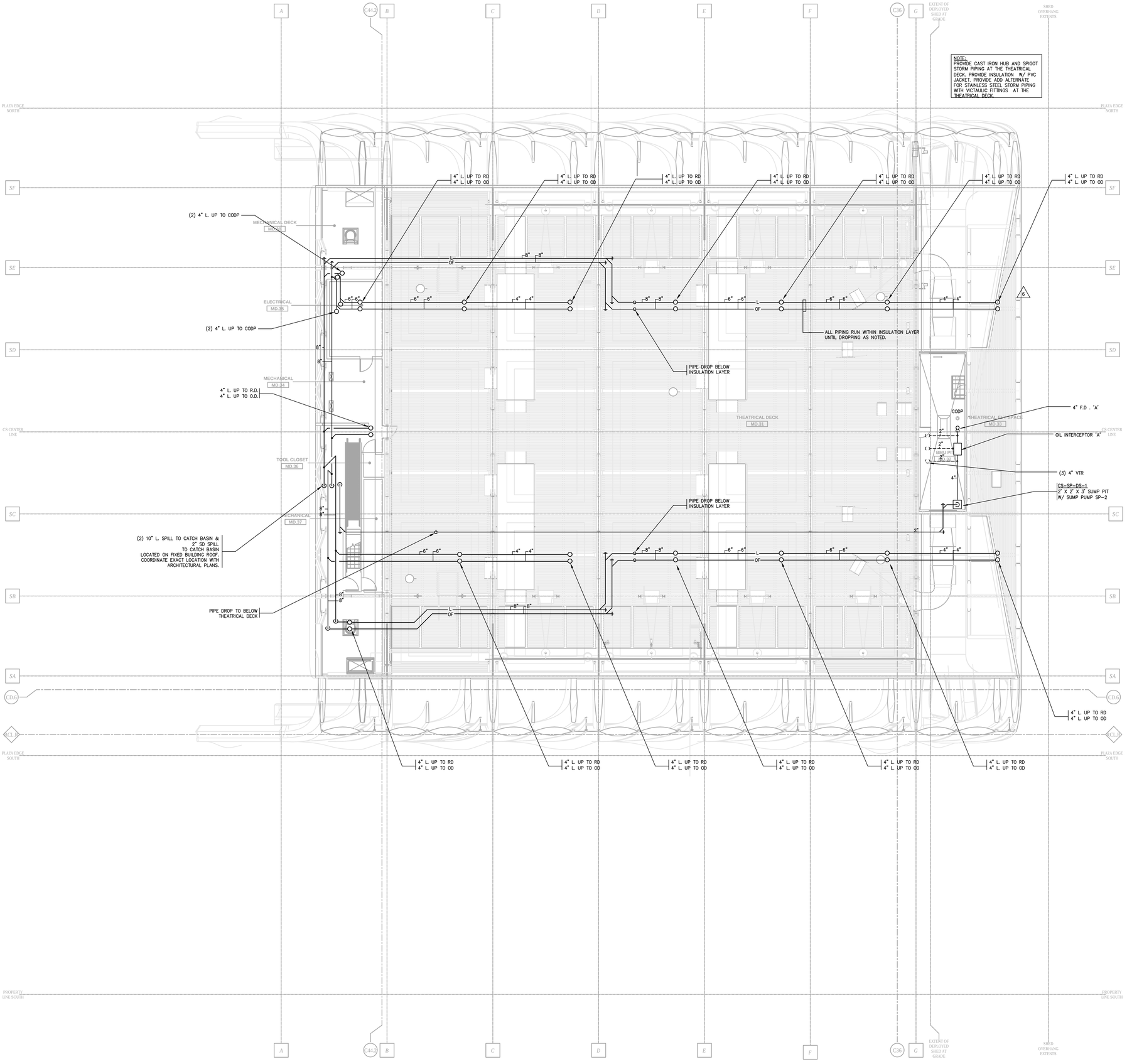

NOTES

1. PROVIDE CAST IRON HUB AND SPIGOT STORM PIPING AT THE THEATRICAL DECK. PROVIDE INSULATION W/ PVC JACKET. PROVIDE ADD ALTERNATE FOR WELDED STAINLESS STEEL STORM PIPING AT THE THEATRICAL DECK.

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Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
MECHANICAL EQUIPMENT
Date: 07/15/2016
NYC Development Hub

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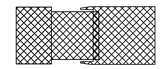

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PLUMBING FLOOR PLAN
DEPLOYED SHED
MECHANICAL LEVEL

DRAWING NO.
P-109B.00

B-SCAN NO.
P-112.00

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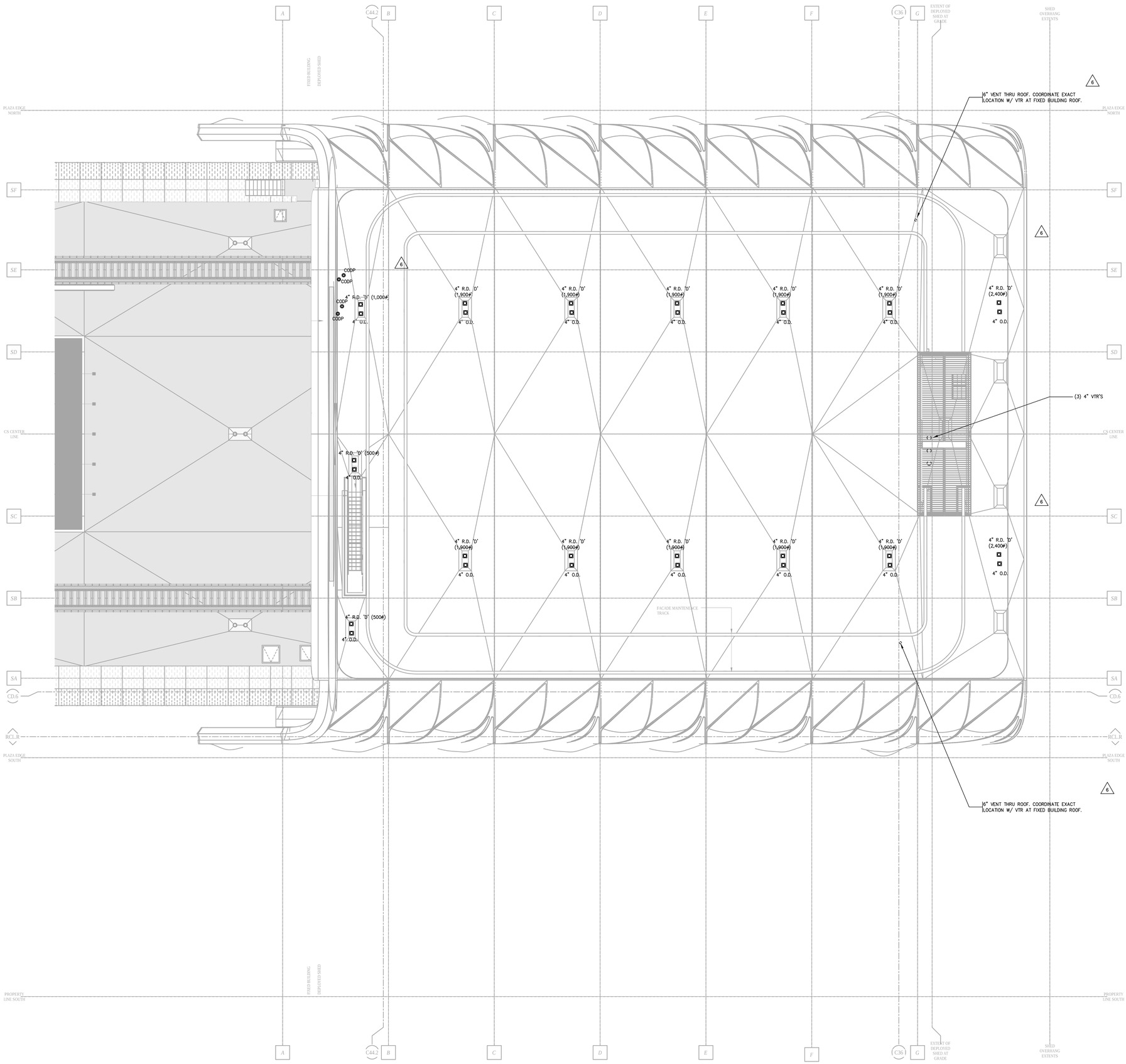

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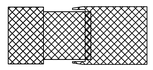

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B-SCAN NO.
P-114.00

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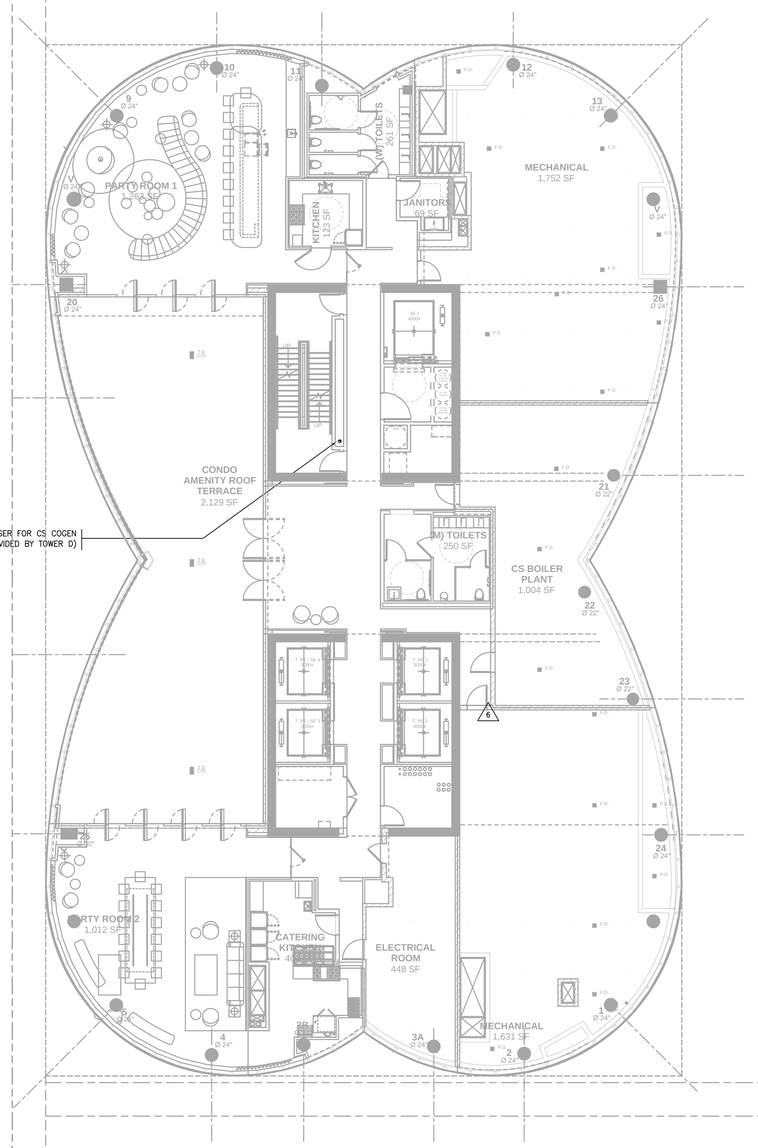
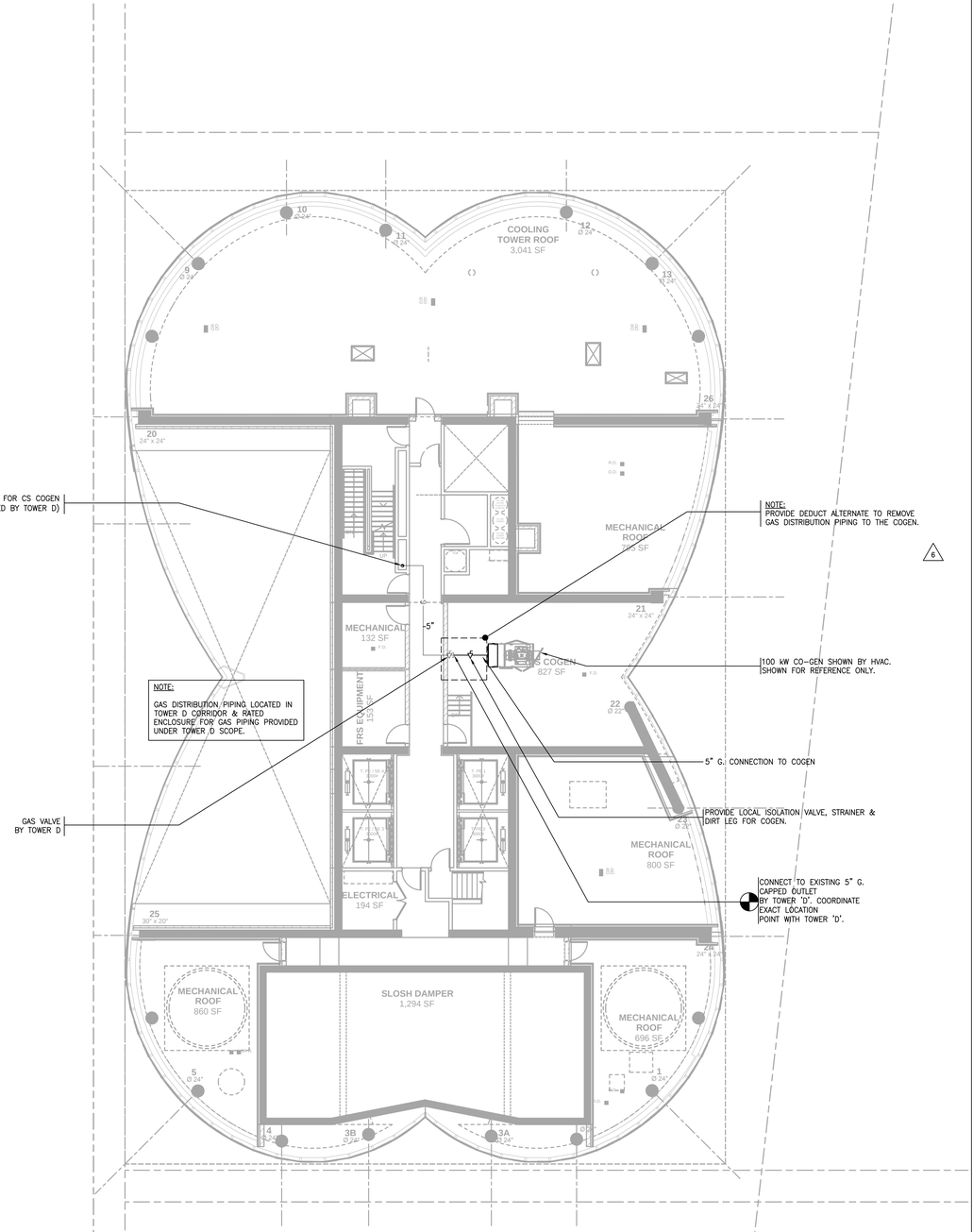


TOWER D LEVEL 67



TOWER D LEVEL 69

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LICENSED PROFESSIONAL ENGINEER

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TITLE

PLUMBING FLOOR PLAN
TOWER D LEVEL 67, 69

DRAWING NO.
P-111.00

B-SCAN NO.
P-115.00

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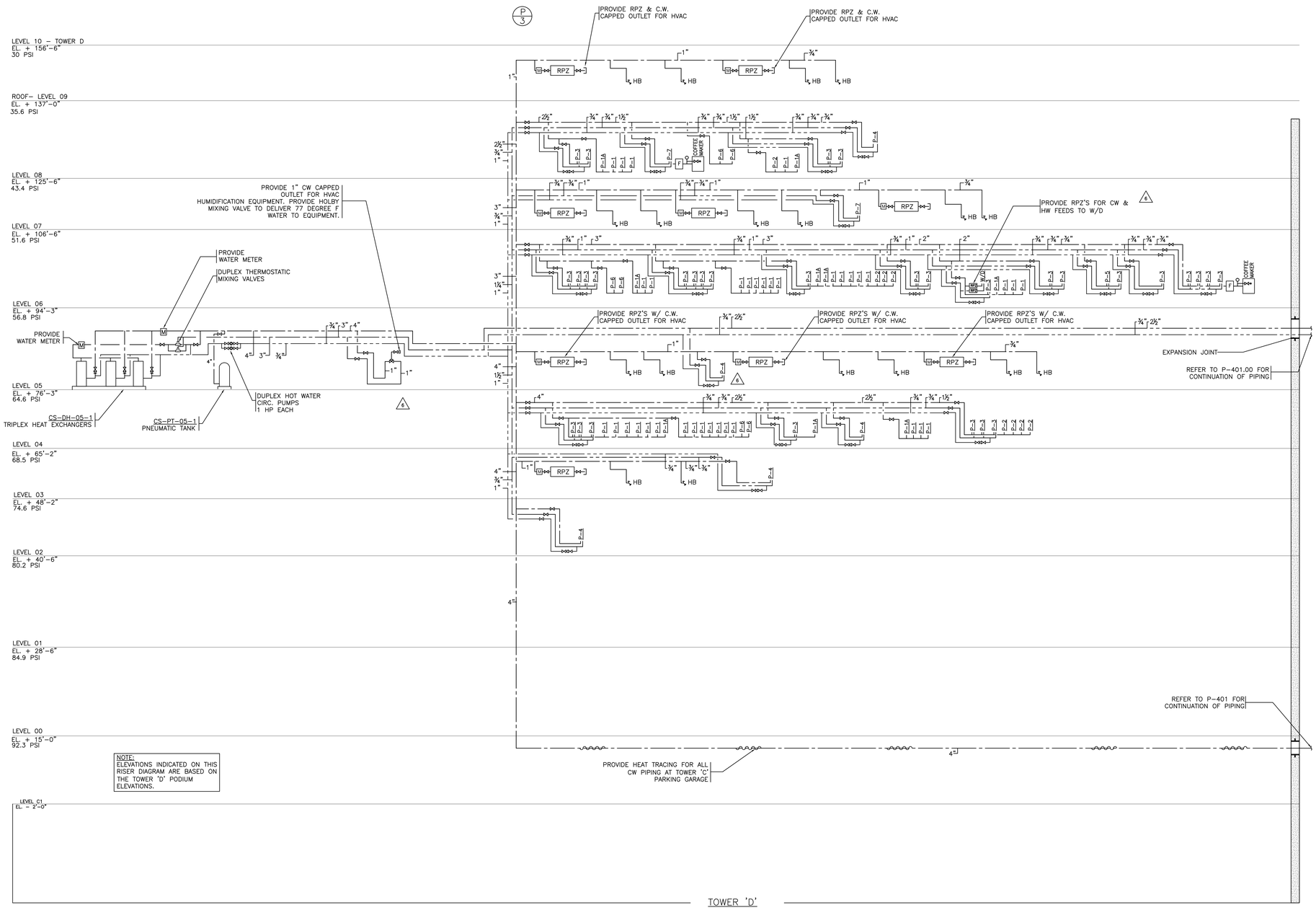

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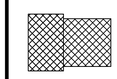

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PROJECT NUMBER
14073.N.000

TITLE

DOMESTIC WATER
RISER DIAGRAM

DRAWING NO.
P-400.00

B-SCAN NO.
P-400.00

17 of 25

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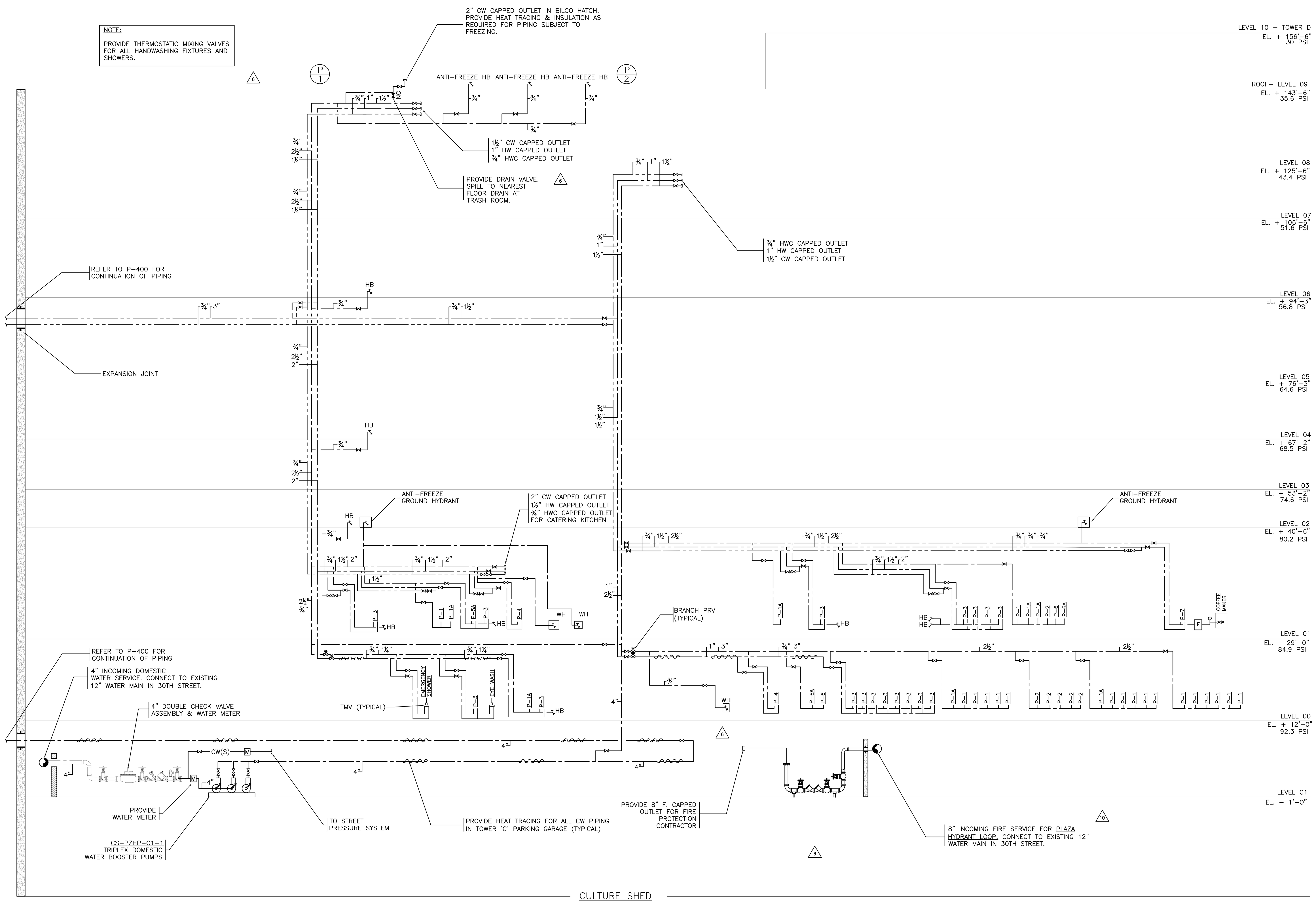

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Under Directive 2 of 1975
AMENDED APPLICATION
Date: 07/15/2016
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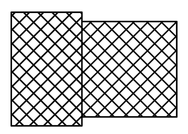

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PROJECT NUMBER
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DOMESTIC WATER
RISER DIAGRAM

DRAWING NO.
P-401.00

B-SCAN NO.

P-401.00

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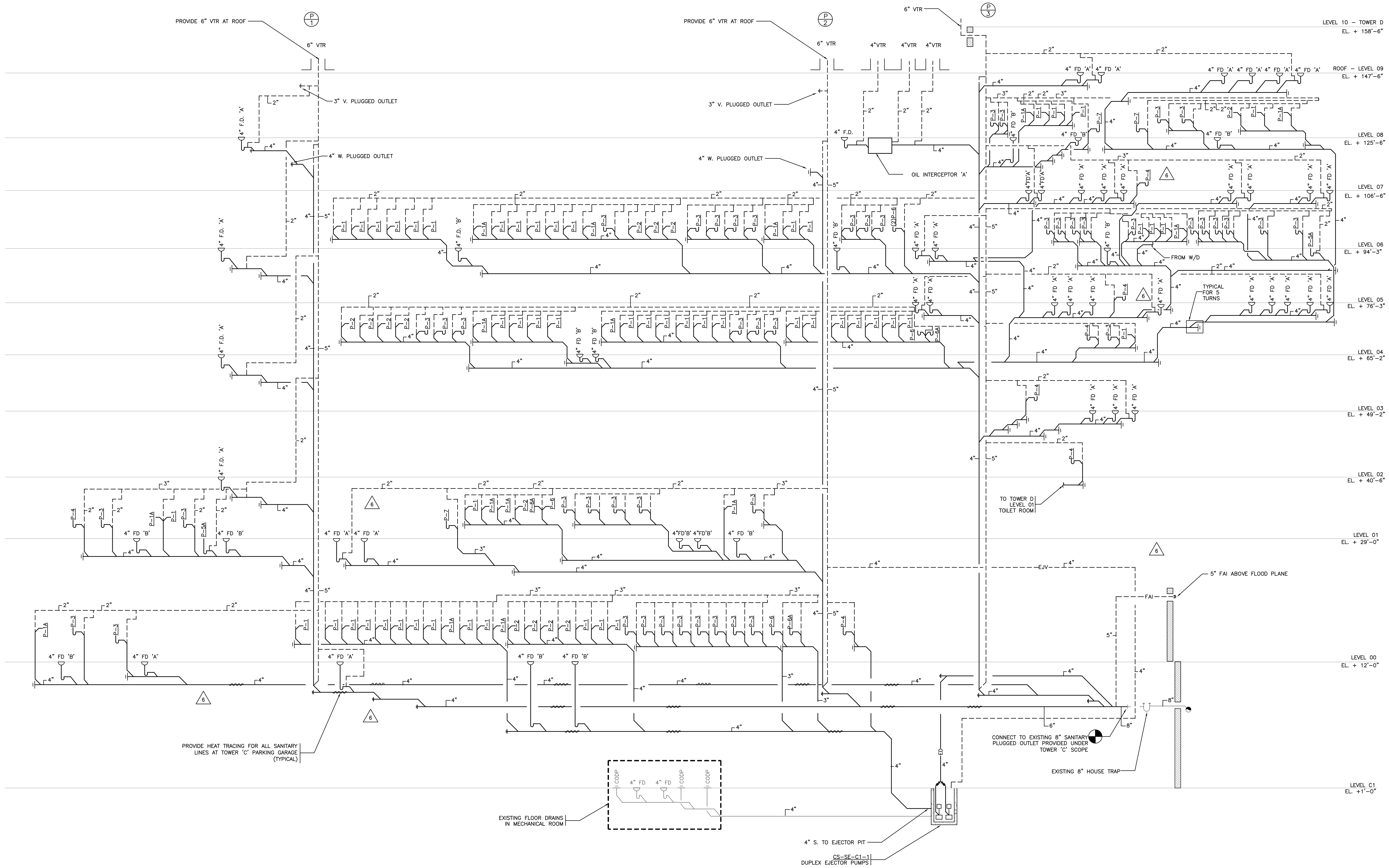

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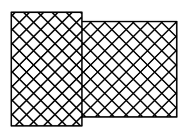

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SANITARY
RISER DIAGRAM

DRAWING NO.
P-402.00

B-SCAN NO.

P-402.00

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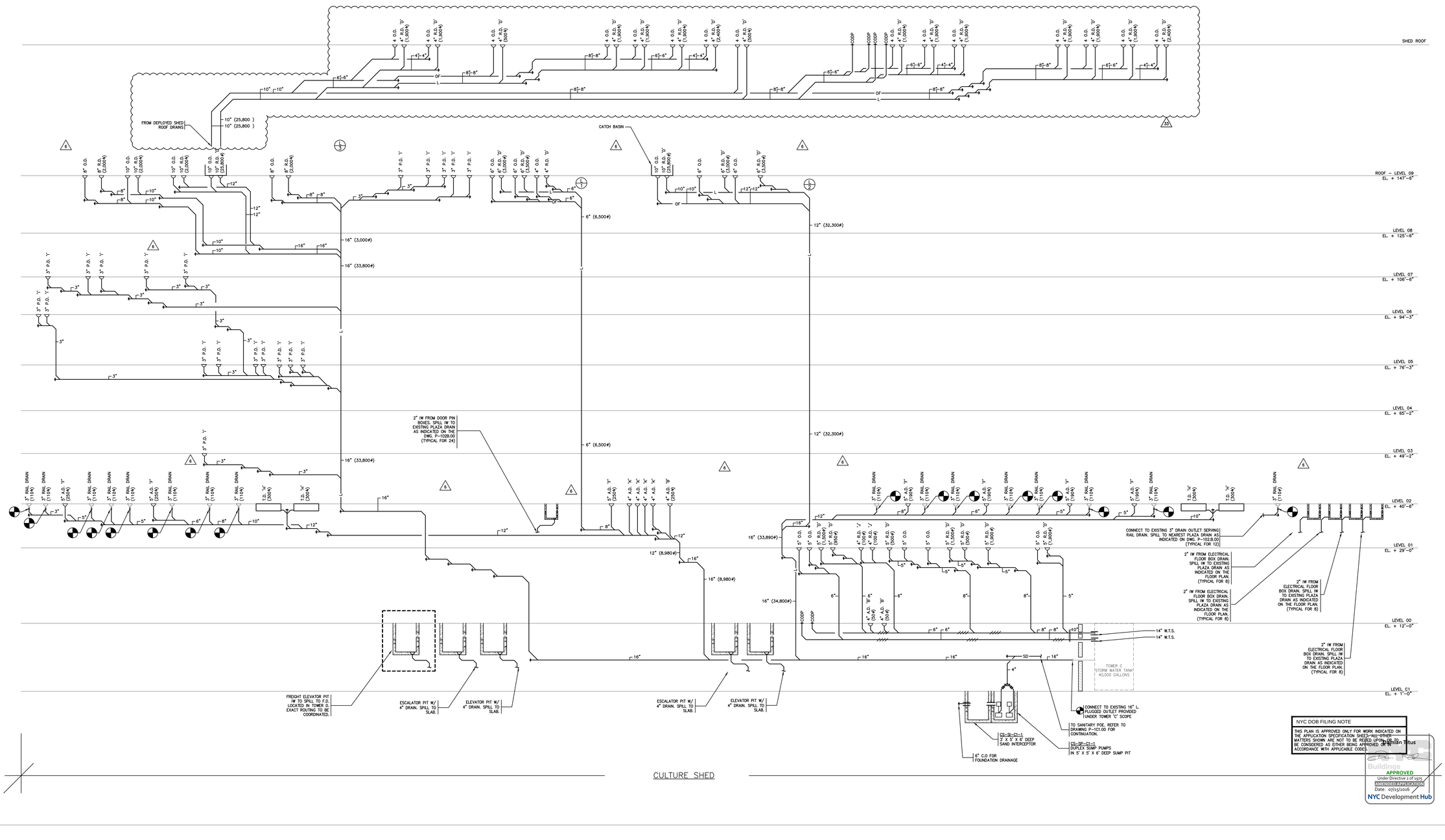

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STORM
RISER DIAGRAM

DRAWING NO.
P-403.00

B-SCAN NO.
P-403.01

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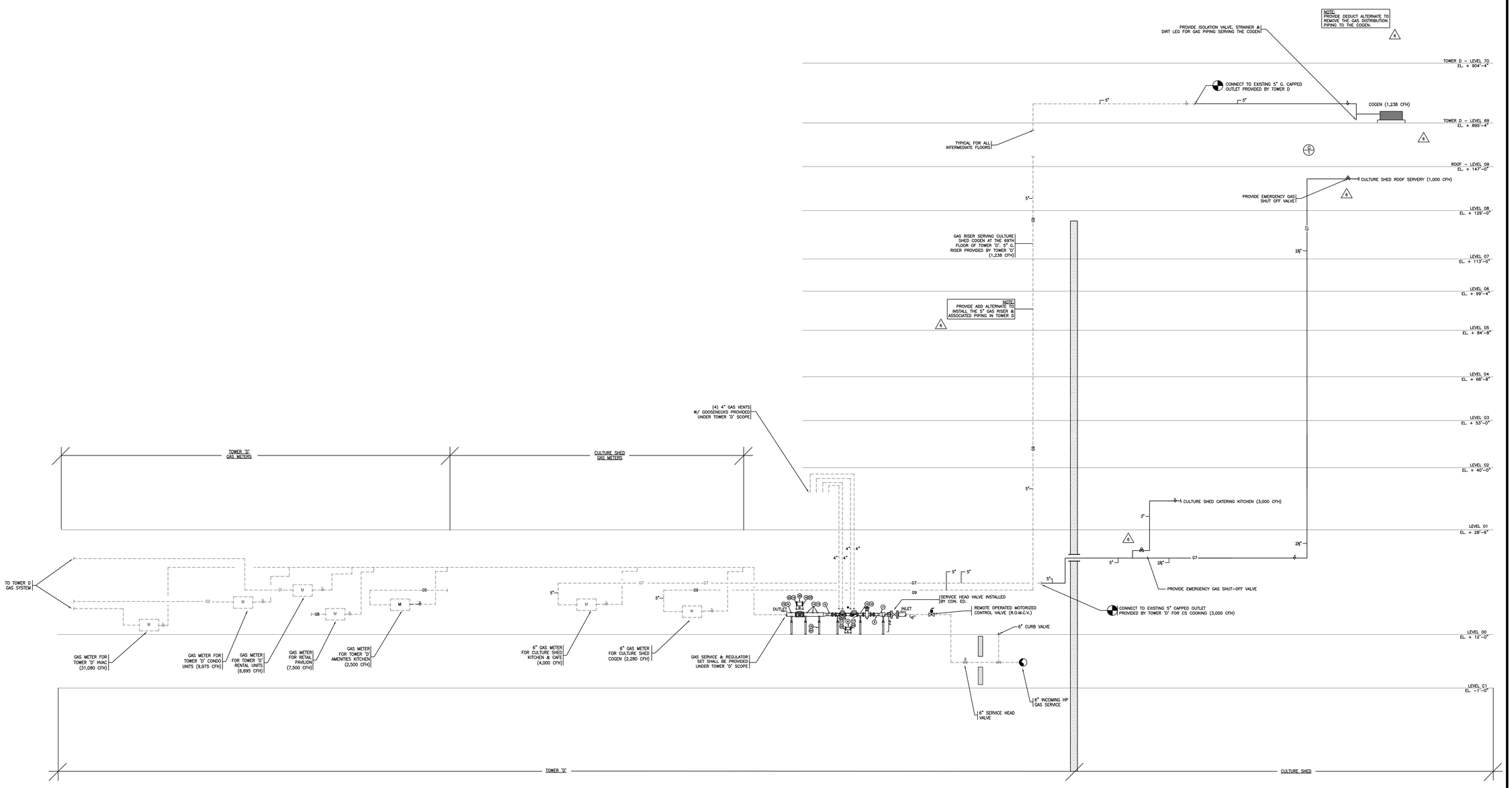

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GAS
RISER DIAGRAM

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Date: 07/15/2016
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ES340109314 Scan Code

PRESSURE VESSELS AND HEATERS

	IDENTIFIER	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. PER HEATER	BOILER WATER FLOW GPM	STEAM LOAD #/HR/HEATER	DOMESTIC WATER FLOW GPM	LOCATION
HOT WATER HEAT EXCHANGERS	CS-DH-05-1	3	AERCO SPDW113	140	–	48.5" x 29.35" X 67.86"	150	120	1	60	–	1,500	100	1,249,500 BTU/HR	50	–	25	05 LEVEL – TD
PNEUMATIC TANK	CS-PT-05-1	1	AMTROL WX-457C	–	528	48"ø 97"	150	–	–	–	–	–	–	–	–	–	–	05 LEVEL – TD

OIL INTERCEPTOR SCHEDULE

DESIGNATION	AREA/ROOM	LOCATION	GPM	OIL CAPACITY	INLET/OUTLET	ZURN MODEL No.	DIMENSIONS L	DIMENSIONS W	DIMENSIONS H
A	BMU PITS	RECESSED	50	171 LBS	4"	Z1186 – SIZE 800	34⅛"	22½"	24¼"

NON-PRESSURE VESSELS, PITS AND PADS

	IDENTIFIER	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	CS-SE-C1-1	1	1	–	–	–	–	5'-0" x 5'-0" x 6'-0" DEEP	CONCRETE	C1 LEVEL
SUMP PIT	CS-SP-C1-1	1	1	–	–	–	–	5'-0" x 5'-0" x 6'-0" DEEP	CONCRETE	C1 LEVEL
SAND INTERCEPTOR	CS-SI-C1-1	1	1	–	–	–	–	5'-0" x 3'-0" x 6'-0" DEEP	CONCRETE	C1 LEVEL

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"		¾"			
	FLUSH TANK						4"		2"		¾"			
FLOOR STANDING	FLUSH VALVE						4"		2"		1¼"		1'-4"	
	FLUSH VALVE						4"		2"		1¼"		1'-6"	
	FLUSH TANK						4"		2"		¾"		1'-4"	
	FLUSH TANK						4"		2"		¾"		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"			
DRINKING FOUNTAIN		P-6	P-6A											
		●	●					2"	2"		¾"			
SINKS		P-7	P-7A											
	PANTRY	●						3"	1½"	¾"	¾"			

MATERIAL SCHEDULE

PIPE

SYSTEMS	EXTRA HEAVY CAST IRON (E.H.C.I.)	CAST IRON SOIL PIPE (C.I.S.P.)	DUCTILE IRON AWWA/C151	SCH. 40, 316 STAINLESS STL	SCH. 40, 304 STAINLESS STL	DURION A.R.C.I.	SCHEDULE 40 BLACK STEEL	SCHEDULE 40 GALVANIZED STEEL	TYPE "K" COPPER TUBING	TYPE "L" COPPER TUBING	TYPE "M" COPPER TUBING	D.I.W.P. (CEMENT LINED)	D.I.W.P. (GROOVED ENDS)	GLASS	POLYPROPYLENE P.P.	C.P.V.C. SCHEDULE 80
HOUSE DRAINS		●														
SANITARY STACKS (10" & SMALLER)		●														
SANITARY STACKS (12" & LARGER)		●														
SANITARY BRANCHES		●														
VENTS		●														
LEADERS STACKS (2ND – ROOF 10" & SMALLER)		●														
LEADER STACKS (2ND-ROOF, 12" & LARGER)		●														
LEADER & SANITARY STACKS (BELOW 2ND FLOOR)								●								
LEADER RUNOUTS		●														
LEADER DRAINS		●														
C.W.										●						
PUMP DISCHARGE (HOUSE PUMP & C.T. DISCHARGE)					●											
H.W. AND H.W.C.										●						
NATURAL GAS SYSTEM (1/2" TO 2 1/2")							●									
NATURAL GAS SYSTEM (3" & LARGER)							●									
EJECTOR DISCHARGE								●								
SUMP DISCHARGE								●								
C.W. SERVICE												●				
INDIRECT WASTE											●					
INDIRECT STACKS		●														

FITTINGS

SYSTEMS	C.I. NO-HUB	EXTRA HEAVY CAST IRON (E.H.C.I.)	C.I. SOIL	DUCTILE IRON AWWA C110/C153	DUCTILE IRON (GROOVED ENDS)	DUCTILE IRON CLASS 350 (LINED)	STD.C.I.-175# W.W.P.	EX. H. C.I. 400# W.W.P.	STD. C.I. FLG.-175# W.W.P.	STD. MALL.-300# W.W.P.	DURION A.R.C.I.	CAST BRONZE-175# W.W.P.	CAST BRONZE-400# W.W.P.	POLYPROPYLENE P.P.	SOLDER FITTINGS	C.P.V.C. SCHEDULE 80	GLASS	SCH. 40 BLACK STEEL	SCHEDULE 40 GALVANIZED	SCHEDULE 40 STAINLESS STEEL
HOUSE DRAINS			●																	
SANITARY STACKS (10" & SMALLER)	●																			
SANITARY STACKS (12" & LARGER)			●																	
SANITARY BRANCHES	●																			
VENTS	●																			
LEADERS STACKS (2ND – ROOF 10" & SMALLER)	●																			
LEADER STACKS (2ND-ROOF, 12" & LARGER)			●																	
LEADER & SANITARY STACKS (BELOW 2ND FLOOR)																			●	
LEADER RUNOUTS	●																			
LEADER DRAINS			●																	
C.W.															●					
PUMP DISCHARGE (HOUSE PUMP & C.T. DISCHARGE)																				●
H.W. AND H.W.C.															●					
NATURAL GAS SYSTEM (1/2" TO 2 1/2")																		●		
NATURAL GAS SYSTEM (3" & LARGER)																		●		
EJECTOR DISCHARGE																			●	
SUMP DISCHARGE																			●	
C.W. SERVICE				●																
INDIRECT WASTE															●					
INDIRECT STACKS			●																	

JOINTS

SYSTEMS	CAULKED	THREADED	SCH. 40 WELDED	SOLDERED 95-5 (LEAD FREE)	GALVANIZED GROOVED	PUSH-ON JOINT – AWWA C11	S.S. COUPLING	BRAZED	SCH. 40 GROOVED STAINLESS STEEL	NO-HUB S.S. COUPLING (HEAVY DUTY)	GASKET	SOLVENT WELDED
HOUSE DRAINS											●	
SANITARY STACKS (10" & SMALLER)										●		
SANITARY STACKS (12" & LARGER)											●	
SANITARY BRANCHES										●		
VENTS										●		
LEADERS STACKS (2ND – ROOF 10" & SMALLER)										●		
LEADER STACKS (2ND-ROOF, 12" & LARGER)											●	
LEADER & SANITARY STACKS (BELOW 2ND FLOOR)					●							
LEADER RUNOUTS										●		
LEADER DRAINS											●	
C.W.				●								
PUMP DISCHARGE (HOUSE PUMP & C.T. DISCHARGE)									●			
H.W. AND H.W.C.				●								
NATURAL GAS SYSTEM (1/2" TO 2 1/2")		●										
NATURAL GAS SYSTEM (3" & LARGER)			●									
EJECTOR DISCHARGE					●							
SUMP DISCHARGE					●							
C.W. SERVICE						●						
INDIRECT WASTE				●								
INDIRECT STACKS										●		

DRAIN SCHEDULE

BODY

	DESIGNATION	REQUIRED	ZURN SERIES NO.	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	R.D. RECIEVER PLATE	ACID RESISTANT COATED
**	A	●	Z541	●	●				●				●				●			
	B	●	Z415	●	●				●				●				●			
	C	●	Z415B	●	●				●				●				●			
	D	●	Z100/101	●	●				●				●				●			
	E	●	ZS880		●				●				●			●				
	F	●	Z100	●	●				●				●				●			
	H	●	ACO SSTL.								●						●			
	I	●	Z125	●	●				●				●				●			
*	J	●	KS20								●				●					
	K	●	JOSAM 22084	●	●				●				●			●				

STRAINER / REMARKS

DESIGNATION	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	BACK WATER VALVE	FLUSHING CONNECTION	GENERAL AREA OR LOCATION
A	●	●									●			●					15"					MECH. RM.
B								●						●		●		●	6"					TOILET ROOM
C										●	●							●	6"					SHOWER DRAIN
D	●			●	●											●	●	●	15"					ROOF / OVERFLOW DRAIN
E														●					38"					SHOWER TRENCH DRAIN (SSTL)
F	●			●	●									●			●	●	15"					AREA DRAIN
H														●					12"					PLAZA TRENCH DRAIN
I	●															●	●	●	8"					PLENUM DRAIN
J														●					5"					CANOPY DRAIN (SSTL)
K	●														●		●	●	9"					EAST FACADE AREA DRAIN

* DENOTES DRAIN BODY AS MANUFACTURED BY ACO.
** PROVIDE ZURN Z526 FLOOR DRAIN WHERE ADJUSTABLE EXTENSION PIECE REQUIRED.
NOTE: PROVIDE CHROME PLATED TOPS FOR ALL FLOOR DRAINS IN PUBLIC AREAS UNLESS OTHERWISE NOTED.

PUMP SCHEDULE

	IDENTIFIER	NO. REQIORED	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	HORIZONTAL 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
EJECTOR PUMP DUPLEX	CS-SE-C1-1	2	200	36	30	●	FLYGT – CP3102	1	●					150	5	1700	460	3	60			●	●	0-200		●	●	C1 LEVEL
SUMP PUMP DUPLEX	CS-SP-C1-1	2	200	36	30	●	FLYGT – CP3102	1	●					150	5	1700	460	3	60			●	●	0-200		●	●	C1 LEVEL
HOT WATER CIRCULATION PUMP (HWCP) DUPLEX		2	5		30	●	B&G PL 60	1		●				125	1	1750	460	3	60			●		0-200				TD 05 LEVEL
DOMESTIC WATER BOOSTER PUMPS TRIPLEX	CS-PZHP-C1-1	3	125		205	●	PPC-VTM-6LB	3					●	250	10	3500	460	3	60			●	●	0-200			●	C1 LEVEL
SUMP PUMP (SP-2) SIMPLEX	CS-SP-DS-1	1	50		30	●	STANCOR SE-100	3	●						3	3600	460	1	60			●	●	0-200			●	THEATRICAL DECK

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Damian Titus
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Under Directives of 1975
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Date: 07/15/2016
NYC Development Hub

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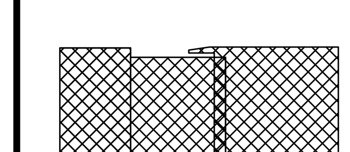
KEY PLAN



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10		100% CONSTRUCTION DOCUMENTS	03.18.2015
9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

STAMP

STATE OF NEW YORK
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No. 68811
LICENSED PROFESSIONAL ENGINEER

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14073.N.000

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SHEET

DRAWING NO.
P-501.00

B-SCAN NO.
P-501.01

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SUMP/EJECTOR PIT SECTION

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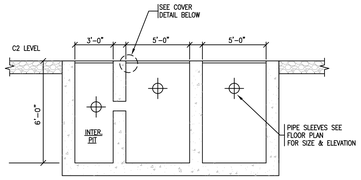

PIT FRAME & COVER DETAIL

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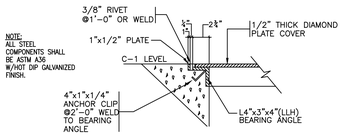
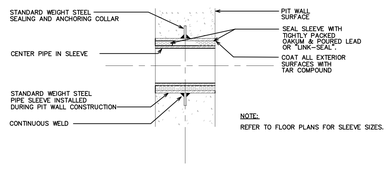


TYPICAL PIPE SLEEVES THROUGH PIT WALL

NOT TO SCALE



ROOF DRAIN DETAIL

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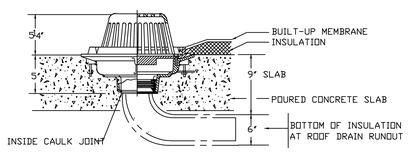

DETAIL OF STACK BASE

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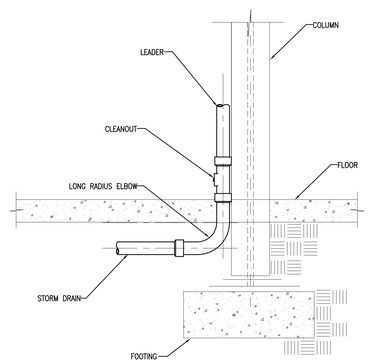

OVERFLOW ROOF DRAIN DETAIL

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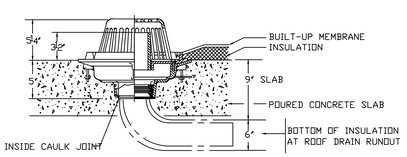
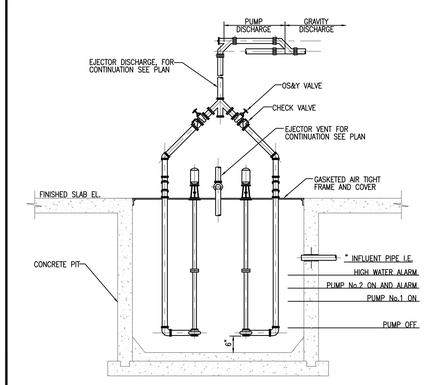


VERTICAL SHAFT EJECTOR AND SUMP PUMPS IN CONCRETE PIT

NOT TO SCALE



TYPICAL CIRCULATION PUMP DETAIL

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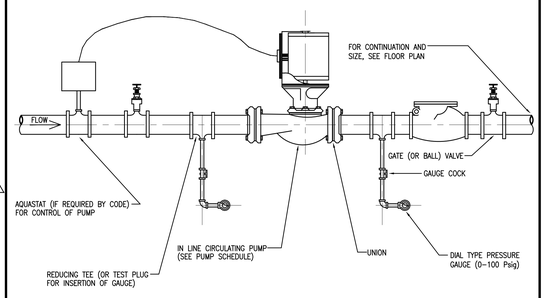
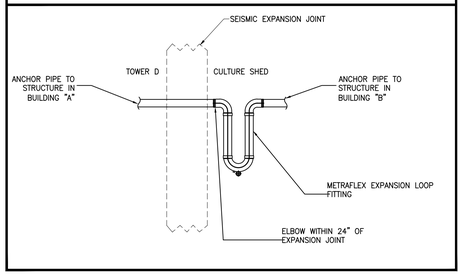
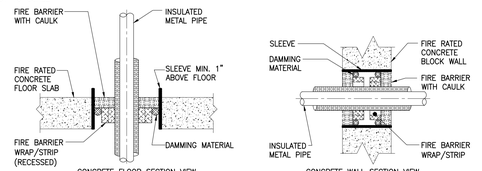


DETAIL OF PIPE CROSSING BUILDING EXPANSION JOINTS



PENETRATION FIRESTOP FOR INSULATED METAL PIPE THROUGH A CONCRETE FLOOR / WALL

NOT TO SCALE



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)

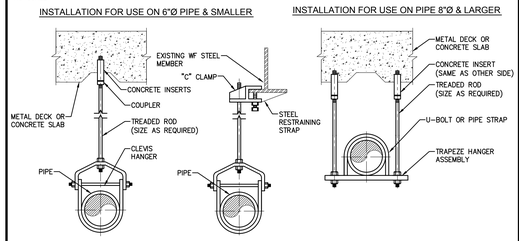
TABLE 1

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 PROVIDED 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.
6. IN ADDITION TO THE REQUIREMENTS OF THE APPROVED UL LISTED FIRE STOPPING ASSEMBLIES, ESCUTCHEON PLATES SHALL BE INSTALLED ON EACH SIDE OF THE FIRE RATED WALL AND SLAB CONSTRUCTION IN ACCORDANCE WITH ARTICLE 15710-1.15 OF THE SPECIFICATIONS AND AS REQUIRED BY THE NEW YORK CITY BUILDING CODE.

PIPE HANGER DETAILS

NO SCALE

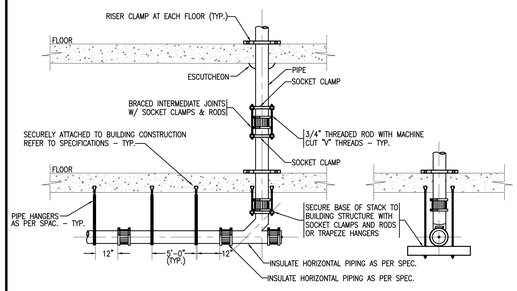


NOTES:

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.

NO-HUB PIPE BRACING FOR VERTICAL PIPING

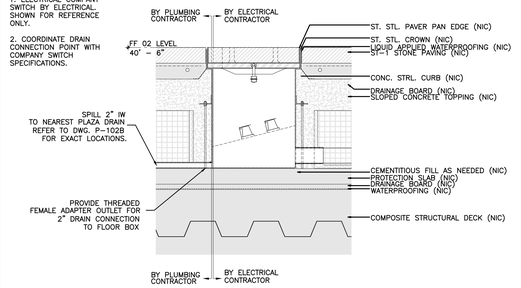
NOT TO SCALE



ELECTRICAL COMPANY SWITCH DRAINAGE DETAIL

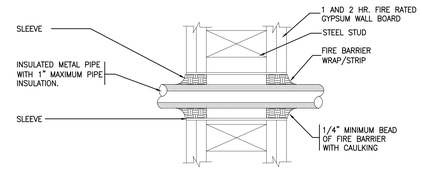
NOTES:

1. ELECTRICAL COMPANY SWITCH BY ELECTRICAL. SHOWN FOR REFERENCE ONLY.
2. COORDINATE DRAIN CONNECTION POINT WITH COMPANY SWITCH SPECIFICATIONS.



PENETRATION FIRESTOP FOR INSULATED METAL PIPE THROUGH GYPSUM WALL BOARD

NOT TO SCALE



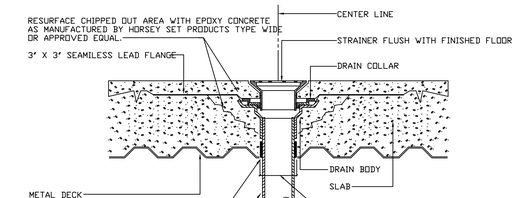
PLAN VIEW

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.

TYPICAL FLOOR DRAIN INSTALLATION

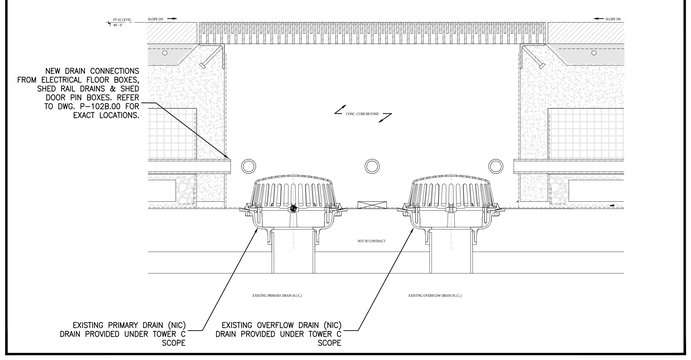
NOT TO SCALE



NOTES

1. WATERPROOF EXISTING FLOOR OF ROOM WHERE FLOOR DRAIN IS TO BE LOCATED USING THOROSEAL SEALANT OR APPROVED EQUAL.

PLAZA DRAINAGE DETAIL



6

6

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55	44	DOB AMENDMENT 6	06.30.2016
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9		90% CONSTRUCTION DOCUMENTS	02.16.2015
6		PRELIMINARY DOB SUBMISSION	12.10.2014

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PROJECT NUMBER
14073.N.000

TITLE

PLUMBING DETAILS

DRAWING NO.
P-601.00

B-SCAN NO.

P-601.00

Damian Titus

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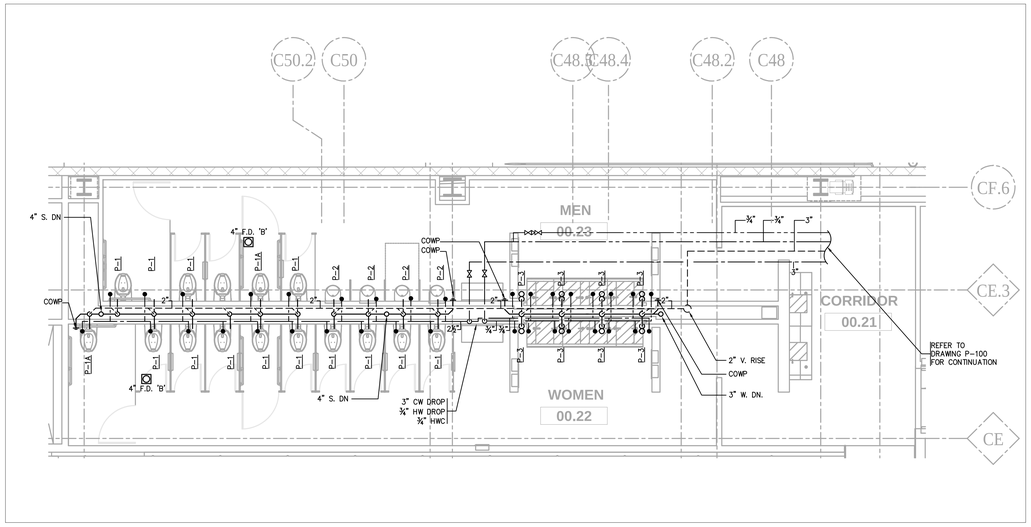
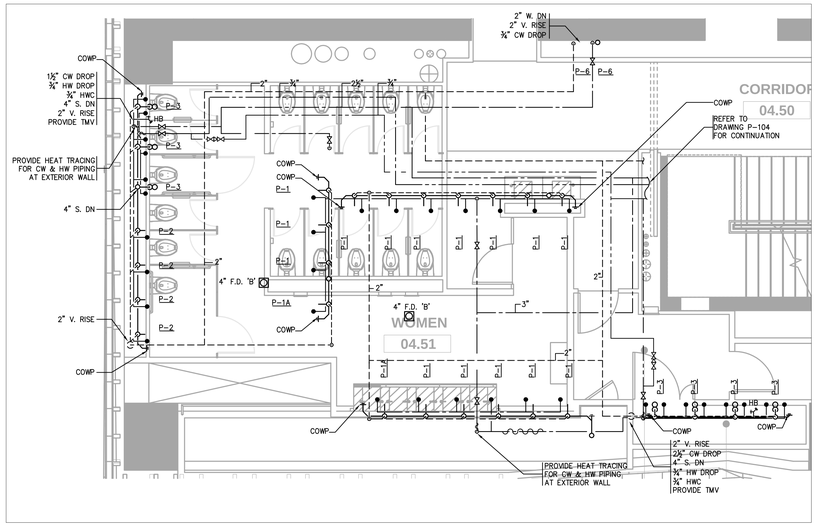


LEVEL 00 TOILET ROOMS
1 1/4"=1'-0"



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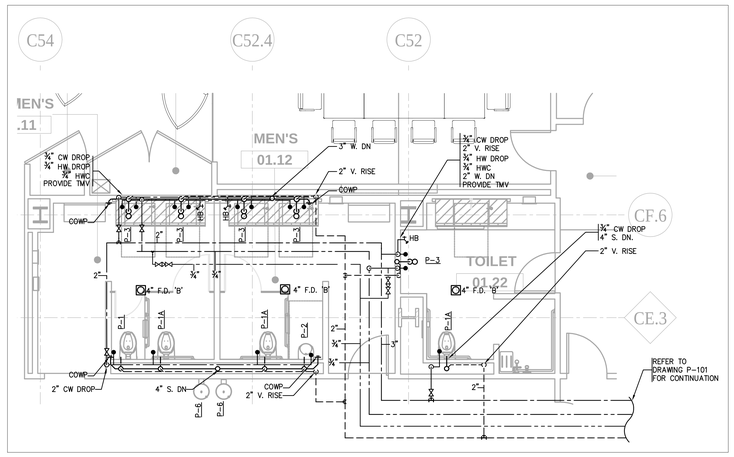

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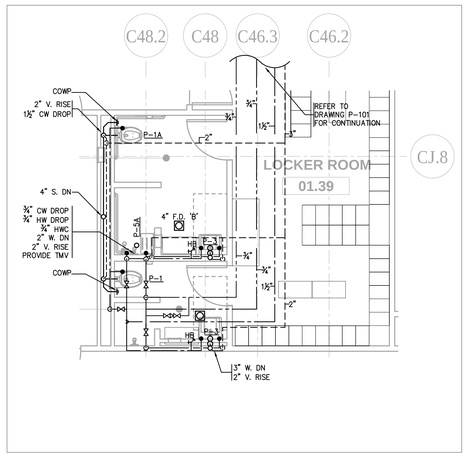

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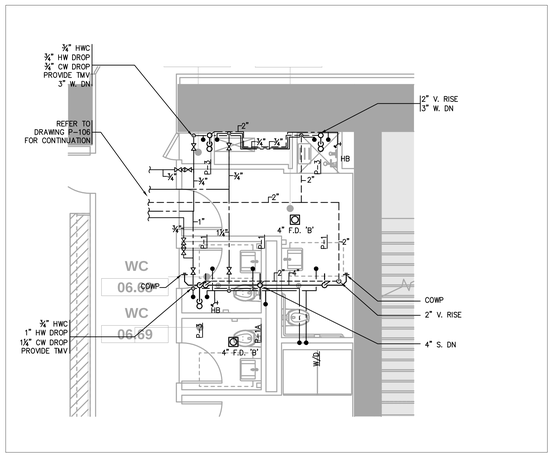

LEVEL 06 TOILET ROOMS
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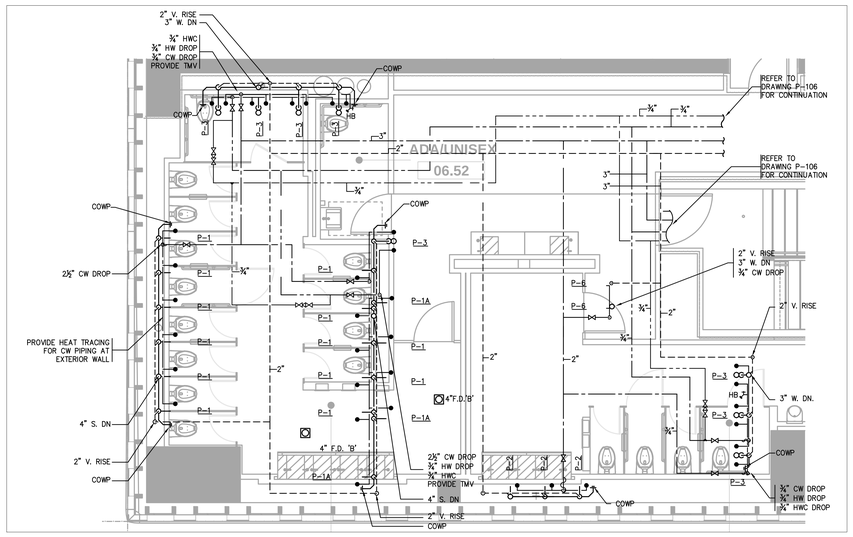
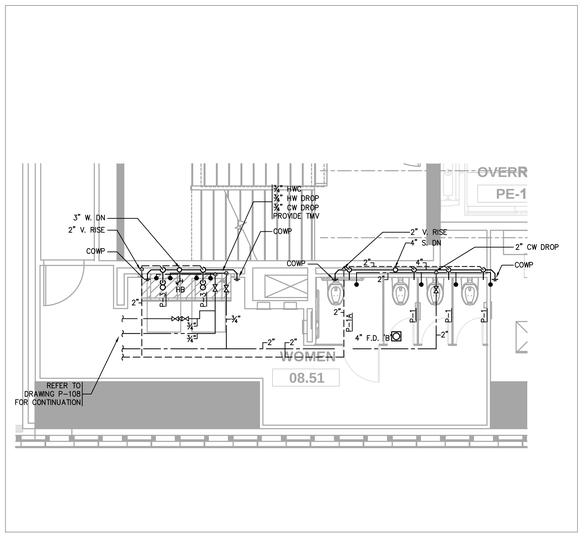
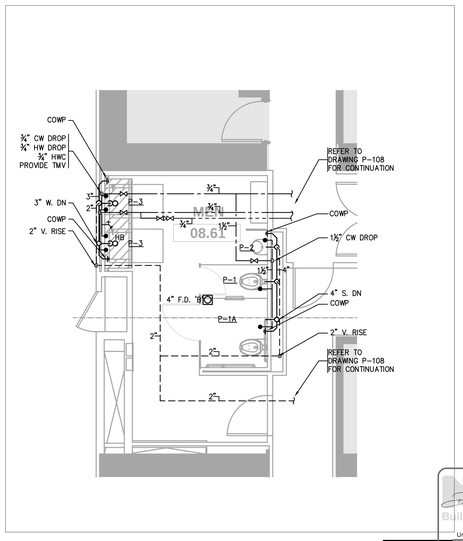


LEVEL 06 TOILET ROOMS
6 1/4"=1'-0"



LEVEL 08 TOILET ROOMS
7 1/4"=1'-0"



LEVEL 08 TOILET ROOMS
8 1/4"=1'-0"

Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
AMENDMENT APPLICATION NO.#1
DATE 07/07/2016
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SCOTT E. FRANCIS
LICENSED PROFESSIONAL ENGINEER
NO. 085811

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PROJECT NUMBER
14073.N.000

TITLE

TOILET ROOM
DETAILS

DRAWING NO.
P-602.00

B-SCAN NO.
P-602.00

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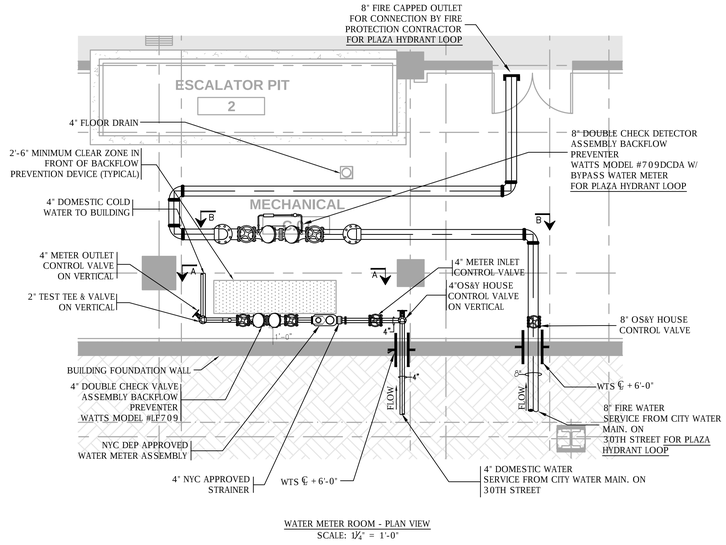
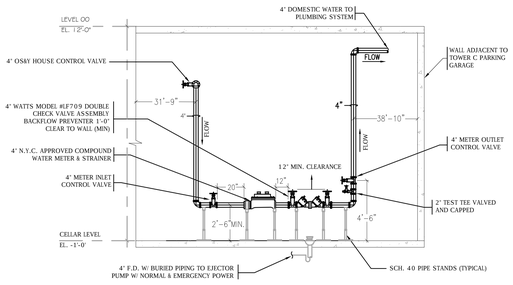
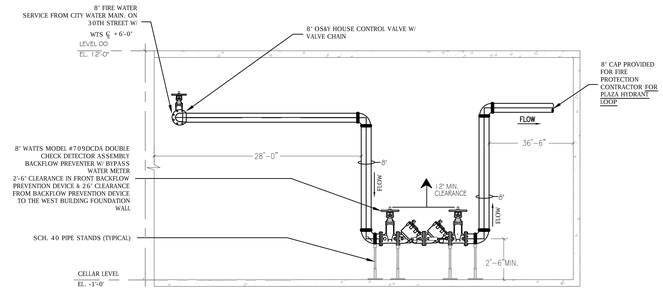


WATER METER ROOM - PLAN VIEW
SCALE: 1/4" = 1'-0"



SECTION 'A-A' - 30TH STREET ELEVATION VIEW
SCALE: 1/4" = 1'-0"



SECTION 'B-B' - 30TH STREET ELEVATION VIEW
SCALE: 1/4" = 1'-0"

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Damian Titus
APPROVED
Date: 9/15/2016
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BACKFLOW
PREVENTER PLAN

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