

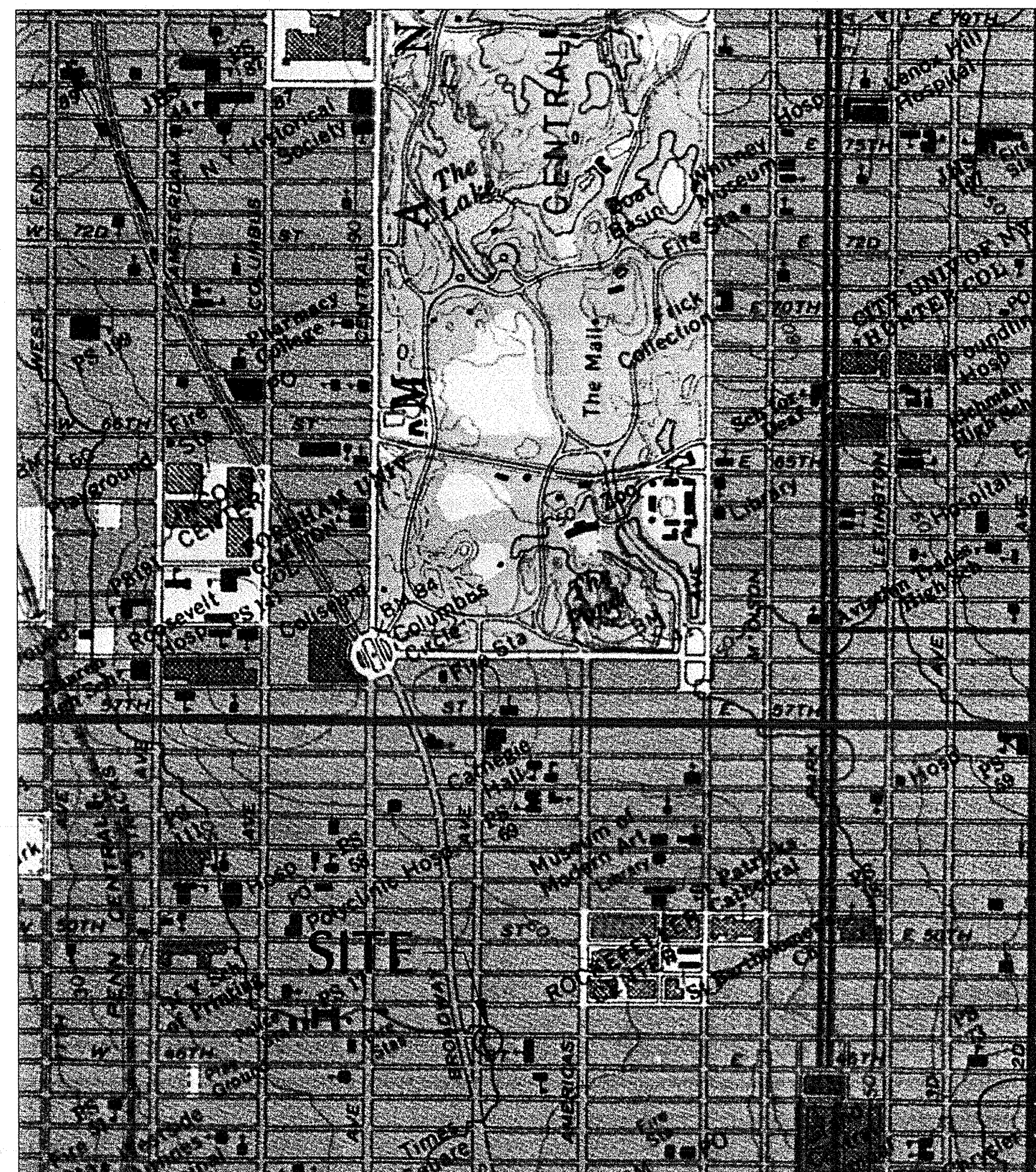
1568 BROADWAY NEW YORK, NEW YORK

SUPPORT OF EXCAVATION

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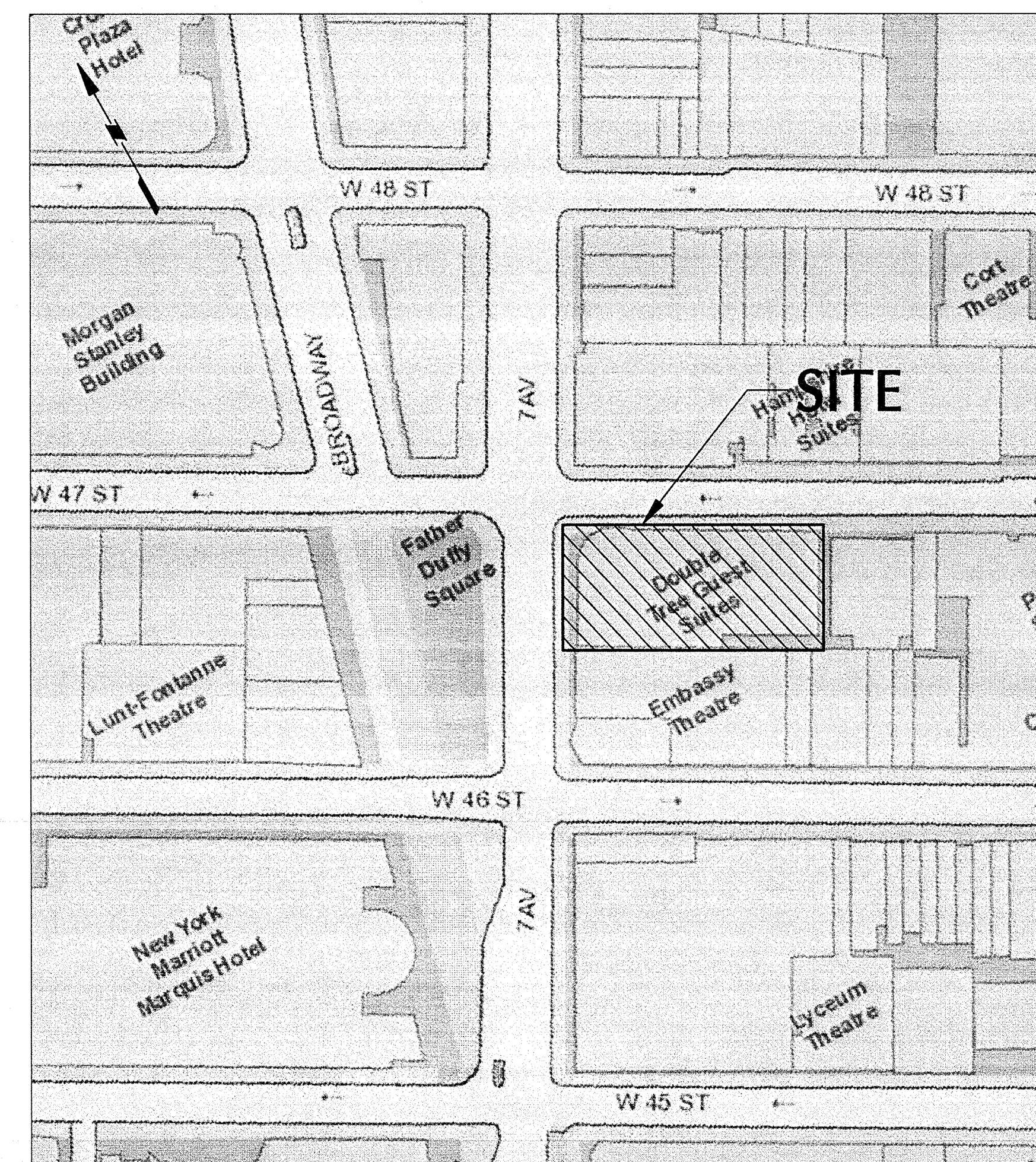
DRAWING LIST

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SOE-401	SECTION 2: TRANSIT AUTHORITY STAGED EXCAVATION
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SOE-501	SUPPORT OF EXCAVATION DETAILS



SOURCE: USGS CENTRAL PARK AND BROOKLYN QUADRANGLE MAPS, 1968, PHOTOREVISED 1979.

VICINITY MAP
N.T.S.



SOURCE: NYCITY MAP - DoITT - CITY-WIDE GIS

SITE MAP
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Project:
1568 Broadway

New York, NY 10036

Sheet Title:

**SUPPORT OF EXCAVATION
TITLE SHEET**

Project Number:
13649
Drawn By:
SCS
Checked By:
LEF
Scale:
N.T.S.

Signature & Seal:

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12/17/17

Sheet Number:

SOE-002.00

NYC DOB Number:

Sheet:
2 of 25

EXCAVATION SUPPORT GENERAL NOTES:

- NEW YORK CITY TRANSIT (NYCT) STANDARD NOTES PERTAIN TO THE NEW WORK WHERE APPLICABLE.
- NYCT APPROVAL OF FOUNDATION DRAWINGS IS REQUIRED BEFORE COMMENCING EXCAVATION AND INSTALLATION OF THE BRACING SYSTEM ADJACENT TO NYCT STRUCTURES.
- CONTRACTOR SHALL OBTAIN APPROVAL FROM NYCT AND THE OWNERS ENGINEERS PRIOR TO RELOCATING AND BRACING TO FACILITATE FOUNDATION CONSTRUCTION.
- CONTRACTOR TO SUPPORT EXISTING UTILITIES BETWEEN PROPERTY LIMIT AND NYCT STRUCTURES.
- CONTRACTOR SHALL OBTAIN PERMISSION FROM ADJACENT BUILDING OWNER PRIOR TO START OF CONSTRUCTION NEAR ADJACENT BUILDINGS.
- PRIOR TO START OF NEW WORK, PERFORM PRECONSTRUCTION INSPECTION OF ADJACENT NYCT SUBWAY. INSPECTION SHOULD BE DONE IN THE PRESENCE OF A NYCT INSPECTOR. LIMITS OF THE PRECONSTRUCTION INSPECTION OF THE TUNNEL SHALL EXTEND 50 FT BEYOND THE PROPERTY LINE.
- IF CHANGED CONDITIONS AFFECTING THE WORK ARE FOUND, REVISED APPROVAL SHALL BE REQUIRED FROM THE NYCT.
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- CONTRACTOR TO SUPPORT EXISTING UTILITIES BETWEEN PROPERTY LIMIT AND NYCT STRUCTURES.
- CONSTRUCTION FENCE AND SITE ACCESS SHOWN HERE ARE FOR REFERENCE ONLY. FINAL NYC DOT APPROVED LOCATIONS AND SITE LOGISTICS PLANS WILL BE PROVIDED BY THE CONTRACTOR.
- TEMPORARY EXCAVATION SUPPORT IS DESIGNED FOR AN ALLOWABLE VERTICAL SURCHARGE OF 600 PSF ADJACENT TO WALL (PER NYCT).
- CONTRACTOR SHALL OBTAIN PERMISSION FROM ADJACENT BUILDING OWNER PRIOR TO START OF CONSTRUCTION NEAR ADJACENT BUILDINGS.
- EXCAVATION SHALL BE COMPLETED TO DEPTHS SHOWN ON THE EXCAVATION PLAN. EXCAVATIONS SHALL INCLUDE THE REMOVAL OF ALL SOIL, BOULDERS, AND MAN-MADE OBSTRUCTION WITHIN THE DEPTH OF THE EXCAVATION.
- THE CONTRACTOR IS TO PREPARE A SITE LOGISTICS PLAN PRIOR TO START OF WORK. THE CONTRACTOR'S SITE LOGISTICS PLAN SHALL CONTAIN, AMONG OTHER ITEMS, SEQUENCING OF CONSTRUCTION ACTIVITIES, A CONSTRUCTION SCHEDULE WITH CRITICAL PATH, FENCING REQUIREMENTS, SITE SIGNAGE, SITE SAFETY, AND SITE ACCESS MANAGEMENT.
- THE DESIGN ENGINEER RESPONSIBLE FOR THE SUPPORT OF EXCAVATION DESIGN IS NOT RESPONSIBLE FOR ANY WORK COMPLETED WITHOUT INSPECTION OR DEVIATIONS FROM THE DESIGN NOT PREVIOUSLY AUTHORIZED IN WRITING. ANY CHANGED CONDITIONS THAT MAY AFFECT THE WORK SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER BEFORE PROCEEDING SO APPROPRIATE ADJUSTMENTS CAN BE MADE.
- CONTRACTOR TO PROTECT AND MAINTAIN EXISTING UTILITIES AS PER CIVIL AND STRUCTURAL DRAWINGS. ALL EXISTING UTILITIES MAY NOT BE SHOWN ON SURVEY.
- ALL EXCAVATION SHALL COMPLY WITH OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE POSITIVE PROTECTION (MAT/SHEET COVERINGS) FOR ALL EXCAVATIONS TO PROTECT SLOPES FROM INSTABILITY AND DETERIORATION DUE TO RAIN, WIND OR SNOW.
- CONTRACTOR SHALL OBTAIN ALL REQUIRED WORK PERMITS SUCH AS, BUT NOT LIMITED TO NYCDOT SIDEWALK AND ROAD CLOSURE PERMITS.
- CONTRACTOR SHALL COORDINATE THE PROJECT WITH NYCDOT AND NYSDOT, WORK INVOLVING THE CITY SEWERS AND WATER MAINS WITH NYC DEP, AND ALL WORK INVOLVING ELECTRIC MAINS WITH CON EDISON.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A WORKABLE SURFACE THAT FACILITATES ALL PROJECT OPERATIONS OF THE CONTRACTOR, ENGINEER, AND THE OWNER. WHERE APPLICABLE, A WORKABLE SURFACE IS FURTHER DEFINED IN THE CONTRACT SPECIFICATIONS.
- ANY TRANSPORTER OF CONTAMINATED/HAZARDOUS MATERIAL SHALL BE LICENSED IN THE STATE(S) IN WHICH HANDLING AND TRANSPORTATION SHALL TAKE PLACE, IN ACCORDANCE WITH REGULATIONS.
- THE CONTRACTOR SHALL INSPECT THE SITE ENTRANCES, EXITS, AND ADJOINING ROADWAYS FOR EVIDENCE OF OFF-SITE SOIL TRACKING. EXISTING SITE CONDITIONS SHALL BE MAINTAINED. THE CONTRACTOR SHALL CLEAN EQUIPMENT AND TRUCKS LEAVING THE SITE, AND ADJACENT STREETS AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR MUST MEET MINIMUM CLEARANCE DIMENSIONS PER THE ARCHITECTURAL DRAWINGS. CORRECTIVE ACTION TO PROVIDE MINIMUM CLEARANCE BY CONTRACTOR.
- DO NOT OVER-EXCAVATE UNLESS DIRECTED BY THE OWNER'S ENGINEER FOR REMOVAL OF UNSUITABLE SOIL.
- DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION.
- SUPPORT OF EXCAVATION DESIGN IS SUBJECT TO REVISIONS PENDING FINAL FOUNDATION DESIGN.
- NO WORK SHALL BE PERFORMED WITHOUT DIRECT ON-SITE SUPERVISION BY THE ENGINEER OR THE OWNER.

MONITORING:

- CONTRACTOR SHALL HAVE A NEW YORK STATE LICENSED SURVEYOR ESTABLISH HORIZONTAL AND VERTICAL CONTROL POINTS.
- SURVEY MONITORING POINTS AND SEISMOGRAPHS SHALL BE INSTALLED AT LOCATIONS IDENTIFIED IN THE PRE-CONSTRUCTION DOCUMENTATION REPORT AND IN CONSULTATION WITH THE OWNER'S ENGINEER AND AGENCIES HAVING JURISDICTION.
- AT A MINIMUM, SURVEY MONITORING POINTS SHALL BE INSTALLED AT THE TOP OF EVERY THIRD CONCRETE PIER. INSTALL SURVEY MONITORING POINTS VERTICALLY IN 15 FOOT MAXIMUM INTERVALS BEGINNING AT THE TOP OF WALL.
- INSTALL SURVEY MONITORING POINTS ON EXISTING BUILDINGS AND SUBSURFACE STRUCTURES, INCLUDING THE NYCT SUBWAY STRUCTURE AT MAXIMUM HORIZONTAL INTERVALS OF 25 FEET, BUT NOT LESS THAN TWO POINTS PER WALL.
- SURVEY MONITORING SHALL BE PERFORMED ON A TWICE WEEKLY BASIS DURING EXCAVATION. MONITORING INTERVALS SHALL BE INCREASED TO DAILY WHERE MOVEMENTS ARE FOUND TO EXCEED THE PRESCRIBED ALERT LEVELS.
- IN THE EVENT THAT MONITORING INDICATES LATERAL MOVEMENT EXCEED THE LIMIT LEVELS DEFINED IN THE SPECIFICATIONS, THE CONTRACTOR SHALL CEASE CONSTRUCTION ACTIVITIES, WHERE REQUIRED, THE CONTRACTOR SHALL PROVIDE STABILIZATION OF THE EXCAVATION SUPPORT SYSTEM VIA INSTALLATION OF TEMPORARY EARTHEN BERMS AND/OR ADDITIONAL BRACING. ADDITIONAL EXCAVATION ACTIVITIES SHALL NOT PROCEED WITHOUT THE AUTHORIZATION OF THE OWNER'S ENGINEER AND ANY AGENCIES HAVING JURISDICTION.
- ALL SURVEY MONITORING POINTS SHALL BEAR A UNIQUE IDENTIFICATION. AS-BUILT PLANS SHALL BE PREPARED FOR ALL SURVEY MONITORING POINTS INSTALLED. PLANS SHALL BE AMENDED AS REQUIRED DURING CONSTRUCTION FOR THE ABANDONMENT, REPLACEMENT, OR ADDITION OF NEW SURVEY MONITORING LOCATIONS. ALL MONITORING RESULTS SHALL BE PROVIDED TO THE CONSTRUCTION MANAGER AND OWNER'S ENGINEER WITHIN 24 HOURS OF TAKING READINGS.
- THE MAXIMUM PERMISSIBLE VIBRATION LEVEL FOR ALL CONSTRUCTION ACTIVITIES SHALL BE 2.0 INCHES PER SECOND AS MEASURED AT THE NEAREST OCCUPIED BUILDING WALL. THRESHOLD TRIGGER VALUES FOR GEOPHONES SHALL BE SET TO A MAXIMUM OF 0.5 INCHES PER SECOND. THE MAXIMUM PERMISSIBLE LEVELS SHALL BE CALCULATED AS THE PEAK VECTOR SUM OF VELOCITY MEASUREMENTS TAKEN IN THREE ORTHOGONAL DIRECTIONS.
- CONTRACTOR TO PLACE A CONCRETE SLAB FOR EACH OF THE SEISMOGRAPH LOCATIONS SHOWN ALONG THE FOLLOWING BUILDINGS: 1560 BROADWAY AVENUE, 155 WEST 46TH STREET, 151 WEST 46TH STREET, AND 150 WEST 47TH STREET.

UNDERPINNING GENERAL NOTES:

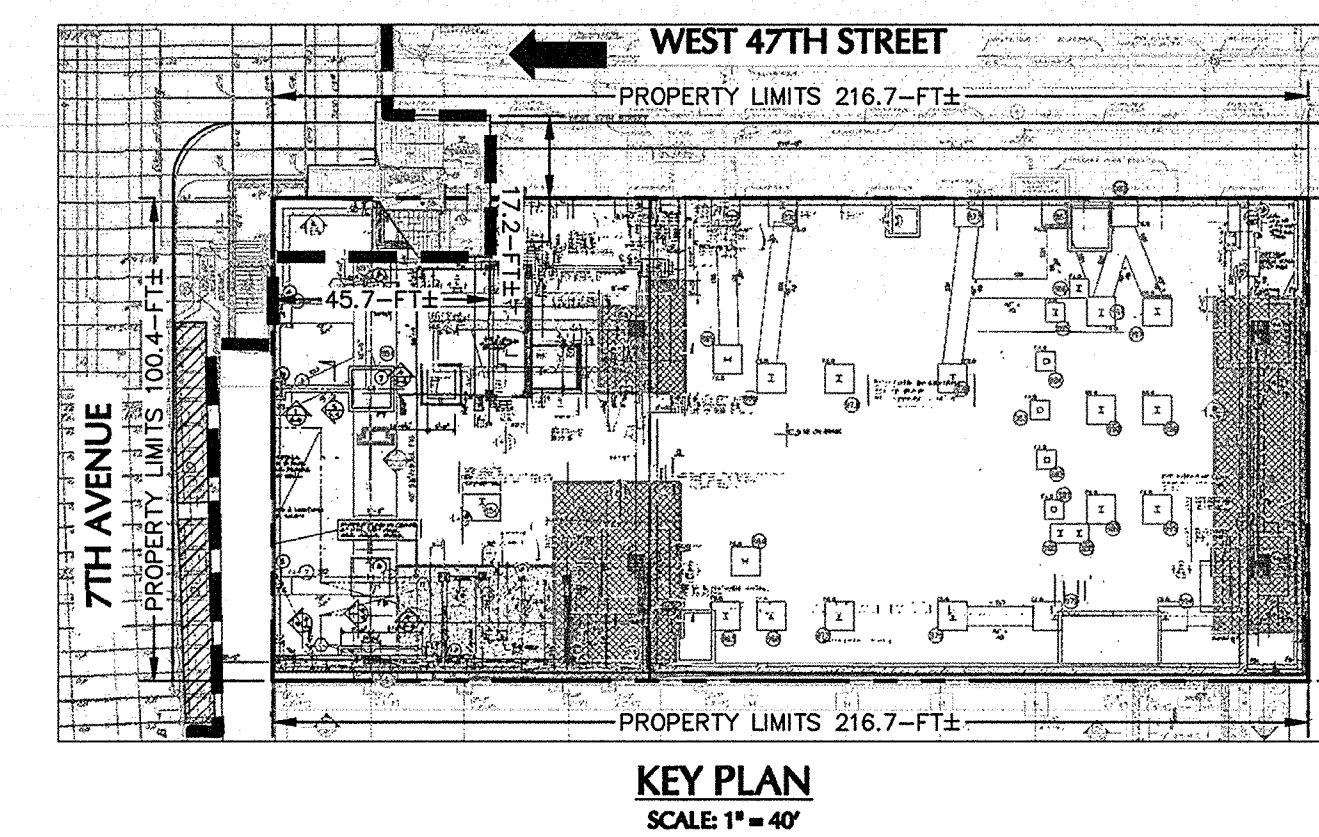
- THE EXISTING GRADE IN FRONT OF BUILDINGS TO BE UNDERPINNED SHALL NOT BE EXCAVATED ANY WIDER THAN FOUR (4) FEET (THE WIDTH OF ONE UNDERPINNING PIER) PRIOR TO COMPLETING THE UNDERPINNING INSTALLATION UNLESS APPROVED IN WRITING BY THE ENGINEER. ALL EXCAVATION FOR THE APPROACH PITS AND UNDERPINNING PIERS SHALL BE SHEETED OR SLOPED IN ACCORDANCE WITH OSHA REQUIREMENTS.
- ALL EXCAVATION FOR UNDERPINNING SHALL BE COMPLETED BY HAND IN SHEETED PITS AS SHOWN IN THE DETAILS.
- CONCRETE FOR UNDERPINNING PIERS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.
- TRANSFER OF LOAD SHALL BE ACCOMPLISHED BY THE USE OF STEEL PLATES AND WEDGES NO SOONER THAN 18 HOURS AFTER PLACING CONCRETE FOR THE UNDERPINNING PIERS. A MINIMUM OF TWO (2) SETS OF STEEL PLATES AND WEDGES SHALL BE INSTALLED AT EACH UNDERPINNING PIER.
- DRY-PACK SHALL BE MADE UP OF EQUAL PARTS OF SAND AND CEMENT, WITH SUFFICIENT WATER TO MAKE THE MIXTURE MOIST.
- CONTRACTOR SHALL CONFIRM TRANSFER OF THE BUILDING LOAD ONTO THE UNDERPINNING PIERS USING SURVEY INSTRUMENTS AND/OR "TELL-TALES".
- CONCRETE UNDERPINNING SHOULD BE PERFORMED USING "ALTERNATE PIT" METHOD SUCH THAT ADEQUATE SUPPORT IS MAINTAINED UNDER EXISTING FOUNDATIONS. EXCAVATE AND POUR CONCRETE UNDERPINNING FOR PITS "A". AFTER CONCRETE ATTAINS AT LEAST 75% OF DESIGN COMPRESSIVE STRENGTH, PACK 2-INCH DRY-PACK INTO SPACE BETWEEN TOP OF UNDERPINNING AND BOTTOM OF EXISTING FOOTING TO TRANSFER LOAD. REPEAT PROCEDURE FOR PITS "B", "C" AND "D".
- UNDERPINNING PIERS SHALL BE CARRIED DOWN TO THE ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS, TO COMPETENT SOIL, OR TO COMPETENT ROCK, WHICHEVER IS DEEPER. IF COMPETENT SOIL OR ROCK IS NOT FOUND AT THE ELEVATION SHOWN ON THE DRAWINGS, THE ENGINEER SHALL REVIEW THE FIELD CONDITIONS AND MAKE NECESSARY RECOMMENDATIONS.
- EACH UNDERPINNING PIER SHALL NOT BE MORE THAN 4'-0" WIDE UNLESS OTHERWISE INDICATED. ALL UNDERPINNING PIERS SHALL BE AT LEAST 3'-0" THICK (I.E. EXTEND 2'-0" BACK UNDER THE EXISTING FOOTING) UNLESS OTHERWISE INDICATED. IF THE WIDTH OF THE EXISTING FOOTING IS GREATER THAN 3'-0", THE UNDERPINNING PIERS SHALL BE AS THICK AS THE FOOTING IS WIDE.
- UNDERPINNING PIERS SHALL BE INSTALLED WITH ONE 1'-FT LIFT.
- UNDERPINNING PIER PITS CLOSER THAN 12 FT O.C. ARE NOT TO BE EXCAVATED AT THE SAME TIME.
- IF THE EXISTING FOUNDATION OBSERVED TO BE IN POOR CONDITION, THE CONTRACTOR SHOULD NOTIFY THE ENGINEER, AND REMOVE OR REPAIR LOOSE/DAMAGED MATERIALS PER DIRECTION OF THE ENGINEER.
- OVER-EXCAVATION FOR INSTALLATION OF SHEETING SHALL NOT BE PERMITTED.
- CONCRETE SHALL BE PLACED THE SAME DAY AS THE PIT IS EXCAVATED UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- THE BOTTOM ELEVATION OF THE EXISTING FOUNDATIONS ARE TAKEN FROM EXISTING FOUNDATIONS DRAWINGS AND ARE TO BE VERIFIED IN THE FIELD WITH TEST PITS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD.
- AT EXISTING BUILDING COLUMNS, NO MORE THAN 1/3 OF THE COLUMN FOOTINGS FOR THE BUILDING SHALL BE UNDERPINNED AT ANY TIME.
- ADDITIONAL TEMPORARY SHORING OF THE COLUMNS MAY BE REQUIRED DURING THE UNDERPINNING PROCESS.
- WHEN THE UNDERPINNING PIER HEIGHT EXCEEDS 10 FT IN HEIGHT, THE UNDERPINNING PIER SHALL BE LATERALLY BRACED.
- IF REQUIRED, ANCHORS SHALL BE INSTALLED PRIOR TO EXCAVATING BELOW LEVEL OF ANCHORS. CONTRACTOR MAY SUBMIT ALTERNATIVE METHODS OF PROVIDING LATERAL SUPPORTS FOR UNDERPINNING PIERS.
- UNDERPINNING PIERS SHALL BE SHEETED ON FOUR SIDES WITH HORIZONTAL TIMBERS. THESE HORIZONTAL TIMBER BOARDS SHALL BE "LOUVERED", THAT IS, THEY SHALL BE SPACED 1-1/2" TO 2" APART TO PERMIT FILLING AND BACKPACKING OF ANY VOIDS THAT OCCUR BEHIND THE LAGGING. LAGGING SHALL BE BACKPACKED WITH PERMEABLE SOIL TO PREVENT ANY BUILD-UP OF HYDROSTATIC PRESSURE BEHIND SHEETING.
- THE EXTENT OF THE UNDERPINNING IN A HORIZONTAL DIRECTION IS DETERMINED BY A 45 DEGREE INFLUENCE LINE.
- PRIOR TO EXCAVATING ANY UNDERPINNING PIERS, THE CONTRACTOR WILL NEED PERMISSION FROM THE PROPERTY OWNERS OF SAID BUILDINGS TO BE UNDERPINNED.
- ALL UNDERPINNING WORK SHALL BE SUBJECT TO CONTROLLED INSPECTION IN ACCORDANCE WITH CHAPTER 18 SECTION 1814 OF THE NEW YORK CITY BUILDING CODE.
- THE FULL SCOPE OF THIS WORK SHALL BE DETERMINED BY THE CONTRACTOR BY SITE REVIEW PRIOR TO BIDDING.
- ADJACENT UNDERPINNING PITS SHOULD NOT BE EXCAVATED UNTIL LOAD HAS BEEN TRANSFERRED TO THE SUBJECT PIT AND NOT LESS THAN 48 HOURS AFTER CONCRETE PLACEMENT OF THE SUBJECT PIT.
- CONTRACTOR SHALL NOTIFY DOB 24-48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRUCTURAL STABILITY OF THE ADJACENT BUILDINGS IN ACCORDANCE WITH CHAPTER 33 SECTION 3309 OF THE NEW YORK CITY BUILDING CODE.

TIMBER LAGGING INSTALLATION NOTES: (AS REQUIRED)

- LAGGING BOARDS SHALL BE INSTALLED BETWEEN CONCRETE PIER AS THE EXCAVATION PROGRESSES, IN NO CASE SHALL EXCAVATION AT THE REAR FACE OF SOLDIER PILE EXTEND MORE THAN 2 FEET BELOW LAGGED SECTIONS.
- ADJACENT LAGGING BOARDS SHALL BE LOUVERED A DISTANCE OF 2 INCHES TO ALLOW FOR BACKPACKING OF DISTURBED AREAS OR VOIDS. LOUVERING MAY BE CEASED AT THE DISCRETION OF THE INSPECTING GEOTECHNICAL ENGINEER BASED ON CONDITIONS ENCOUNTERED.
- DISTURBED AREAS, VOIDS, AND MATERIAL LOST BEHIND LAGGING SHALL BE BACKPACKED WITH A DRY SOIL/CEMENT MIXTURE. HAY OR FILTER FABRIC SHALL BE USED TO PREVENT MIGRATION OF FINES THROUGH LOUVER OPENINGS.
- BACKFILL SHALL BE PLACED AND COMPACTED AS INDICATED HEREIN, OR AS DIRECTED BY THE INSPECTING GEOTECHNICAL ENGINEER.
- ALTERNATE METHODS OF SUPPORT OF EXCAVATION, WHERE PROPOSED SHALL BE ACCOMPANIED BY ALL SUPPORTING CALCULATIONS

DEWATERING NOTES (UNDER SEPARATE APPLICATION, IF REQUIRED):

- ADEQUATE PUMPS, WELL POINTS, OR OTHER EQUIPMENT, APPURTENANCES, POWER, DRAINS, MATERIALS AND LABOR NECESSARY TO DO ALL THE PUMPING AND DEWATERING NEEDED TO KEEP ALL EXCAVATIONS DRY DURING THE CASTING OF PILE CAPS, PIERS, AND FOUNDATION ELEMENTS, AND AT SUCH OTHER TIMES AS THE PROGRESS OF THE WORK MAY DEMAND OR AS NECESSARY TO INSURE SAFETY TO THE STRUCTURE SHALL BE PROVIDED.
- OBTAIN NECESSARY PERMIT FOR DISCHARGING WATER TO THE CITY SEWER. DIRECT DISCHARGE INTO THE EAST RIVER SHALL NOT BE PERMITTED WITHOUT ALL FEDERAL, STATE AND CITY PERMITS.
- ALL PUMPING AND DEWATERING BOTH INSIDE AND OUTSIDE THE AREAS OF THE BUILDING SHALL BE PERFORMED, CONTINUED AND MAINTAINED AS REQUIRED FOR THE COMPLETION OF ALL WORK, INCLUDING THE WORK OF THE MECHANICAL TRADES, THROUGHOUT THE PERIOD OF THE CONTRACT.
- DURING EXCAVATION FOR AND PLACING OF SLABS, WALLS, PILE CAPS, PITS, ETC., THE EXCAVATION SHALL BE KEPT DRY. THE DEWATERING SYSTEM SHALL BE CAPABLE OF MAINTAINING THIS CONDITION UNTIL THE SITE IS BACKFILLED AND THE REMOVAL OF THE DEWATERING SYSTEM WILL NOT ENDANGER ANY CONSTRUCTION AREA. ALL PUMPED WATER SHALL BE REMOVED FROM THE BUILDING AREA.
- THE DEWATERING SYSTEM SHALL MAINTAIN A DRY EXCAVATION WITH A GROUNDWATER LEVEL AT LEAST A MINIMUM 2 FEET BELOW THE LOWEST SUBGRADE ELEVATIONS.
- THE DEWATERING SYSTEM OR SYSTEMS SHALL BE INSTALLED AND OPERATED IN SUCH A MANNER AS TO AVOID THE MOVEMENT OF FINES OR LOSS OF GROUND FROM BELOW THE BEARING LEVEL AND SHALL NOT INFLUENCE THE STABILITY OF SURROUNDING AREAS. THE FACILITIES NEEDED TO ELIMINATE LOSS OF GROUND SHALL BE INCLUDED.
- THE CONTRACTOR SHALL NOT USE ANY PORTION OF THE BUILDING FOUNDATION UNITS OR ANY PART THEREOF AS A SUMP FOR DRAINAGE RESULTING FROM PUMPING IN ANY OTHER AREA. THE CONTRACTOR SHALL NOT CONDUCT WATER TO PRIVATELY OWNED PROPERTIES.



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1568 Broadway

New York, NY 10036

Sheet Title:

GENERAL NOTES

Project Number: 13649

Drawn By: SCS

Checked By: LEF

Scale: N.T.S.

Sheet Number: SOE-003.00

Signature & Seal:

NYC Development Hub

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NOTE: THE APPROPRIATE NOTES ARE TO BE MADE PART OF THE PROJECT'S CONTRACT DRAWINGS.

- THE NYC TRANSIT (NYCT) RESERVES THE RIGHT TO PLACE INSPECTORS, FLAGMEN OR OTHER PERSONNEL IN THE SUBWAY STRUCTURES DURING CONSTRUCTION OF THE PROJECT LINKED BY A TELEPHONE SYSTEM. IF DEEMED NECESSARY, TO OBSERVE THE EFFECTS OF THE CONSTRUCTION ON THE TRANSMISSIONS. NYCT FURTHER RESERVES THE RIGHT TO PLACE SUCH PERSONNEL WHENEVER, IN ITS OPINION, THE PROJECT CONDITIONS WARRANT SUCH PLACEMENT, REGARDLESS OF DISTANCE. THE COST OF SUCH PERSONNEL, TELEPHONE INSTALLATION AND ANY RE-ROUTES, DIVERSIONS OF SERVICE, WORK TRAINS, ETC., MADE NECESSARY BY THE PROJECT, MUST BE BORNE BY THE PROJECT OR THE RESPONSIBLE NEW YORK CITY/STATE AGENCY.
- ALL ROCK EXCAVATION ADJACENT TO THE TRANSIT STRUCTURE IS TO BE CHANNEL DRILLED TWO FEET BELOW SUBGRADE.
- IF TOP OF ROCK IS FOUND BELOW SUBWAY STRUCTURE, THE SUBWAY STRUCTURE MUST BE UNDERPINNED IN ACCORDANCE WITH DRAWINGS TO BE SUBMITTED TO NYCT FOR APPROVAL.
- IF ROCK IS SOFT OR SEAMY, LATERAL SUPPORTS MUST BE PROVIDED BELOW THE SUBWAY STRUCTURE IN ACCORDANCE WITH DRAWINGS TO BE SUBMITTED TO NYCT FOR APPROVAL.
- BLASTING WILL BE PERMITTED ONLY WITH LIGHT CHARGES SUBJECT TO THE APPROVAL OF NYCT'S ENGINEER AND IN ACCORDANCE WITH THE REGULATIONS OF THE FIRE DEPARTMENT. THE CONTRACTOR SHALL PROVIDE A DETAILED MONITORING PLAN, PROVIDING FOR MEASUREMENTS OF BOTH PARTICLE VELOCITY AND DISPLACEMENTS AT CRITICAL LOCATIONS OF THE NYCT STRUCTURE. THE MONITORING PLAN SHALL INCLUDE THRESHOLD AND UPSET LEVELS OF BOTH PARTICLE VELOCITY AND SETTLEMENT TOGETHER WITH AN ACTION PLAN FOR THEIR IMPLEMENTATION. THE CONTRACTOR SHALL SECURE AN APPROVED SEISMOLOGIST TO INSTALL AND OPERATE SUITABLE VELOCITY GAUGES TO CONTINUOUSLY MONITOR PARTICLE VELOCITY AND AN INDEPENDENT LICENSED SURVEYOR TO MONITOR DISPLACEMENTS. THE PRESENCE OF A QUALIFIED TECHNICIAN FROM MONITORING COMPANY IS NECESSARY TO PROVIDE THE VIBRATION READING UPON REQUEST OF NYCT ENGINEER. THE THRESHOLD MAXIMUM PARTICLE VELOCITY ABOVE AMBIENT CAUSED BY THE BLASTING WILL BE 0.5 INCH PER SECOND. VALUES EXCEEDING THIS LEVEL WILL BE REVIEWED AND EVALUATED BY NYCT'S ENGINEER. IN NO CASE WILL PARTICLE VELOCITIES EXCEED THE UPSET LEVEL OF 2.0 INCHES PER SECOND.
- BEFORE PLACING CONCRETE, THE SUBGRADE OF THE FOUNDATIONS IN THE VICINITY OF THE SUBWAY STRUCTURE IS TO BE INSPECTED AND APPROVED BY NYCT'S ENGINEER.
- IF ANY PORTION OF THE SUBWAY STRUCTURE OR FINISH IS DAMAGED, IT SHALL BE REPAIRED OR REPLACED WITH THE SAME MATERIALS IN PLACE, SUBJECT TO THE APPROVAL OF NYCT'S ENGINEER AND AT THE EXPENSE OF THE PROJECT.
- EXCAVATION EMBANKMENTS ARE TO BE SHORED AND BRACED. DRAWINGS INDICATING A SUGGESTED METHOD OF CONSTRUCTION ARE TO BE SUBMITTED TO NYCT FOR APPROVAL IN CONJUNCTION WITH THE PROJECT'S CONTRACT DRAWINGS. IN CASE OF EXCAVATION UNDERMINING THE SUBWAY STRUCTURE, UNDERPINNING MAY BE REQUIRED. DRAWINGS FOR UNDERPINNING ARE TO BE SUBMITTED TO NYCT FOR APPROVAL.
- TEMPORARY SHORING MAY BE PLACED IN DIRECT CONTACT WITH NYCT STRUCTURES ONLY IF THE NYCT STRUCTURE IS SHOWN TO BE ABLE TO SUPPORT ALL ANTICIPATED LOADS THAT CAN BE TRANSFERRED THROUGH THE TEMPORARY STRUCTURES WITHOUT DAMAGING THE EXISTING STRUCTURE. AT THE COMPLETION OF THE PROJECT, THESE TEMPORARY SHORING AND BRACING SYSTEMS ARE TO BE REMOVED OR CUT-OFF AS APPROVED BY NYCT.
- WHEN PILES ARE TO BE DRIVEN OR DRILLED ADJACENT TO THE SUBWAY STRUCTURE, BORING DATA, PILE LAYOUTS, SPECIFICATIONS AND INSTALLATION PROCEDURES ARE TO BE SUBMITTED TO NYCT FOR APPROVAL. VELOCITY METERS ARE TO BE INSTALLED IN THE SUBWAY TUNNEL AT CRITICAL LOCATIONS TO MONITOR INDUCED VIBRATIONS. INDUCED DISPLACEMENTS ALONG THE TUNNEL STRUCTURE AND TRACK INVERT ARE TO BE MONITORED DURING DRIVING OR DRILLING. THE THRESHOLD MAXIMUM PARTICLE VELOCITY ABOVE AMBIENT CAUSED BY THE DRIVING OR DRILLING WILL BE 0.5 INCH PER SECOND. VALUES EXCEEDING THIS LEVEL WILL BE REVIEWED AND EVALUATED BY NYCT'S ENGINEER. IN NO CASE WILL PARTICLE VELOCITIES EXCEED THE UPSET LEVEL OF 2.0 INCHES PER SECOND.
- NO PILES ARE PERMITTED TO BE INSTALLED BY ANY METHOD WITHIN THREE FEET OF SUBWAY STRUCTURE, MEASURED FROM THE EDGE OF THE PILE OR CASING TO THE WALL. CLOSED-END PILES WILL NOT BE PERMITTED TO BE DRIVEN WITHIN TEN FEET OF THE SUBWAY STRUCTURE.
- ALL PILES ARE TO BE PLACED WITHIN A PREAUGERED CASED HOLE TO THE INFLUENCE LINE. THE CASING SHALL BE CLEANED WITHOUT DISTURBING THE SOIL OUTSIDE THE CASING AND THE PILE TO BE PLACED WITHIN THE CASING FOR INSTALLATION. THE PILES MAY THEN BE DRIVEN BEYOND THE INFLUENCE LINE WITHIN THE CASING.
- THE INFLUENCE LINE SHALL START AT THE BOTTOM OF THE SUBWAY STRUCTURE AND EXTEND FROM 1H:1V TO 2H:1V SLOPE DEPENDING ON THE SOIL PROPERTIES AND GROUND WATER TABLE. FOR PILES INSTALLED WITHIN TEN FEET OF THE SUBWAY STRUCTURE, THE CASING SHALL BE EXTENDED UP TO THE BOTTOM OF THE SUBWAY STRUCTURE.
- ALL PILES ARE TO BE DRIVEN OR DRILLED A MINIMUM OF TEN FEET BELOW THE INTERSECTION OF THE PILE CENTERLINE AND THE INFLUENCE LINE OF THE SUBWAY STRUCTURE.
- THE USE OF "DOWN-THE-HOLE -HAMMERS" FOR INSTALLATION OF PILES THROUGH OVERBURDEN AND FILL WILL BE PERMITTED ONLY TO REMOVE BOULDERS. IT WILL NOT BE PERMITTED AS A MATTER OF COURSE TO ADVANCE THE HOLE. THEIR USE TO CONSTRUCT ROCK SOCKETS WILL NOT BE ALLOWED WITHIN 5 FEET OF THE NYCT STRUCTURE. THE USE OF MACHINE UTILIZING AIR FOR SOIL REMOVAL WILL NOT BE ALLOWED.
- VIBRATORY HAMMERS WILL NOT BE PERMITTED WITHIN 75 FEET OF SUBWAY STRUCTURES. HOERAMS WILL NOT BE PERMITTED WITHIN 25 FEET OF SUBWAY STRUCTURES.
- DYNAMIC CONSTRUCTION METHODS USING DROPPED HEAVY WEIGHTS CANNOT BE CONDUCTED WITHIN 1000 FEET OF ANY NYCT STRUCTURE UNLESS IT IS SHOWN THAT INDUCED SETTLEMENTS AND VIBRATIONS WILL NOT DAMAGE THESE STRUCTURES. A SUITABLE MONITORING PLAN INCLUDING SETTLEMENT AND VIBRATION MEASUREMENTS MUST BE APPROVED BY NYCT'S ENGINEER FOR ALL SUCH OPERATIONS WITHIN THESE DISTANCES.
- THERE SHALL BE NO MACHINE EXCAVATION WITHIN 3 FEET OF NYCT STRUCTURES, POWER DUCT LINES, OR ANY OTHER FACILITIES UNTIL THEY HAVE BEEN CAREFULLY EXPOSED BY HAND EXCAVATION.
- ALL DEWATERING OPERATIONS CONDUCTED WITHIN 500 FEET OF THE NYCT STRUCTURE MUST BE PERFORMED IN ACCORDANCE WITH DRAWINGS AND PROCEDURES SUBMITTED TO NYCT FOR APPROVAL. THE DISTANCE FROM THE STRUCTURE TO THE DEWATERING OPERATION CAN BE REDUCED PROVIDED THAT SOIL CONDITIONS AT THE SITE INDICATE THAT THE RADIUS OF INFLUENCE OF THE DEWATERING IS LESS THAN 500 FEET. FOR DEWATERING WITHIN THE RADIUS OF INFLUENCE, THE DEWATERING PROGRAM MUST BE SHOWN TO HAVE NEGLIGIBLE INFLUENCE ON SETTLEMENTS OF THE NYCT STRUCTURE.
- SUBWAY ENTRANCES (VENTILATORS, ETC.) ARE TO BE UNDERPINNED OR SHORED AND BRACED IF DIRECTED BY NYCT'S ENGINEER.
- NYCT, AT ITS DISCRETION, RESERVES THE RIGHT TO REQUIRE THE PROJECT TO CLOSE OR MAINTAIN AND PROTECT EXISTING SUBWAY ENTRANCES, VENTILATORS, ETC. ADJACENT TO THE PROJECT DURING CONSTRUCTION. SUCH CONSTRUCTION MAY INCLUDE UNDERPINNING, SHORING, BRACING AND ERECTION OF SUITABLE BARRICADES AND/OR CANOPIES AND SHIELDS. SUCH PROTECTION SHALL BE IN ACCORDANCE WITH DRAWINGS SUBMITTED TO NYCT FOR APPROVAL.
- IF SHIELDS ARE TO BE INSTALLED TO PROTECT NYCT FACILITIES AND/OR THE PUBLIC, PLANS SHOWING THE LOCATION, TYPE AND METHOD OF ATTACHMENT TO THE TRANSIT STRUCTURE MUST BE SUBMITTED TO NYCT FOR APPROVAL.
- ALL LUMBER AND PLYWOOD USED FOR PROTECTION OF SUBWAY FACILITIES MUST BE FIRE RETARDANT.
- SUBWAY EMERGENCY EXITS MUST BE KEPT CLEAR AT ALL TIMES.
- IN EXCAVATING OVER OR NEAR THE SUBWAY ROOF, SPECIAL CARE SHALL BE EXERCISED SO THAT THE THIN CONCRETE PROTECTION OF THE SUBWAY WATERPROOFING IS NOT DAMAGED.
- BURNING OF, WELDING TO OR DRILLING THROUGH EXISTING STEEL STRUCTURES WILL NOT BE PERMITTED EXCEPT AS SHOWN ON DRAWINGS APPROVED BY NYCT.
- HORIZONTAL AND VERTICAL CONTROL SURVEY DATA OF THE EXISTING NYCT STRUCTURE IS TO BE TAKEN BY A LICENSED LAND SURVEYOR TO MONITOR ANY MOVEMENTS THAT OCCUR DURING CONSTRUCTION AND TO SHOW THAT THE INDUCED MOVEMENTS ARE WITHIN ALLOWABLES NOTED BELOW. IF ANY MOVEMENTS EXCEED ALLOWABLES, REMEDIATION AS APPROVED BY NYCT SHALL BE PERFORMED.

STRUCTURE	NOTIFY NYCT ENGINEER	STOP WORK
ELEVATED	1/8 INCH	1/4 INCH
SUBWAY	1/4 INCH	1/2 INCH

28. BUS ROUTES AFFECTED BY THE PROJECT WILL OR MAY REQUIRE BUS DIVERSIONS. THESE ARRANGEMENTS SHALL BE MADE THROUGH:

MS. SARAH WYSS
ACTING DIRECTOR, OPERATIONS PLANNING
NEW YORK CITY TRANSIT
2 BROADWAY, ROOM A17.82
NEW YORK, NEW YORK 10004
TELEPHONE NUMBER 646/252-5517

WHEN IMPACTING ANY BUS STOP, SPECIAL OPERATIONS MUST BE NOTIFIED TWO WEEKS IN ADVANCE.

29. DUCT LINES MUST BE MAINTAINED AND PROTECTED DURING CONSTRUCTION. ANY INTERFERENCE WITH DUCT LINES SHOULD BE REPORTED TO NYCT INSPECTOR. WHEN A DUCT LINE CONTAINING CABLES IS TO BE REMOVED, OR WHEN MASONRY ADJACENT THERETO IS TO BE REMOVED, PENETRATED, OR DRILLED, THE WORK SHALL BE DONE WITH HAND LABOR ENTIRELY, USING HAMMER AND CHISEL. JACKHAMMERS, BULL POINTS OR OTHER POWER EQUIPMENT SHALL NOT BE USED.

30. WHERE MANHOLES ARE ENCOUNTERED:

- THEY SHALL BE PROTECTED AND RAISED OR LOWERED AS REQUIRED, TO MATCH THE NEW STREET GRADE.
- IF MANHOLE COVERS ARE RAISED OR LOWERED, PROTECT CABLES IN MANHOLE BY WOOD SHEETING OF 2" NOMINAL THICKNESS.
- PRIOR TO THE START OF CONSTRUCTION OPERATIONS AFFECTING MANHOLES AND DUCT LINES, SEVEN DAYS NOTICE MUST BE GIVEN TO MR. JOHN MALVASIO, P.E., ASSISTANT CHIEF ENGINEERING OFFICER, MAINTENANCE OF WAY, AT 718/694-1358.

31. CONSTRUCTION WORK DONE NEAR VENT GRATINGS AND HATCHES SHALL BE AS FOLLOWS:

- UNLESS APPROVED BY THE NYCT'S ENGINEER, ALL VENT GRATINGS AND HATCHES SHOULD REMAIN OUTSIDE THE CONSTRUCTION SITE, SEPARATED BY A CONSTRUCTION FENCE. PROTECTIVE SHIELDS MUST BE PROVIDED OVER VENT GRATINGS AS REQUIRED BY NYCT'S ENGINEER.
- NO BUILDING MATERIAL, VEHICLES OR CONSTRUCTION EQUIPMENT IS TO BE STORED OR RUN OVER VENT, GRATINGS, HATCHES OR EMERGENCY EXITS.
- DETAILS OF SIDEWALK RECONSTRUCTION AROUND VENT GRATINGS, HATCHES AND EMERGENCY EXITS ARE TO BE SUBMITTED TO NYCT FOR APPROVAL.

32. TRACTORS, CRANES, EXCAVATORS, ETC. USED IN THE VICINITY OF THE ELEVATED STRUCTURES SHALL BE ISOLATED FROM THE GROUND. SINCE THE ELEVATED STRUCTURE IS USED AS A NEGATIVE RETURN PATH, WITH A CONSEQUENT POTENTIAL BETWEEN IT AND THE GROUND, ANY CONTACT BETWEEN THE STRUCTURE AND GROUNDED EQUIPMENT COULD RESULT IN BURNING OF THE STEEL.

33. TEMPORARY CONSTRUCTION SHEDS, BARRICADES OR PLYWOOD PARTITIONS MUST BE A MINIMUM OF 5'-0" FROM EDGE OF FINISHED PLATFORM.

34. STATION AREAS OR STAIRWAY/CLOSINGS: THE GENERAL REQUIREMENTS FOR STATION AREAS OR STAIRWAY/CLOSINGS ARE AS FOLLOWS:

- ONLY ONE STAIRWAY AT EACH STATION WILL BE PERMITTED TO BE CLOSED AT THE SAME TIME. APPROVALS FOR CLOSING ANY STAIRWAY MUST BE OBTAINED FROM THE DIVISION OF STATION OPERATIONS AT LEAST THREE WEEKS IN ADVANCE.
- MS. SUSANNAH HARRINGTON, DIRECTOR, OFFICE OF STATION PROGRAMS; TELEPHONE 718-243-4891/1695 OF THE DIVISION OF STATIONS MUST BE NOTIFIED ONE WEEK PRIOR TO THE ACTUAL CLOSING AND REOPENING OF THE ENTRANCE.
- SIGNAGE MUST BE SUPPLIED AND POSTED AT LEAST ONE WEEK IN ADVANCE, ADVISING THE PUBLIC OF THE PROPOSED SUBWAY STAIR CLOSING. HOWEVER, IF IT IS AN ENTIRE ENTRANCE CLOSING, SIGNAGE MUST BE POSTED TWO WEEKS IN ADVANCE.
- THE STREET ENTRANCE STAIRWAY SHOULD NOT BE CLOSED UNLESS MANPOWER AND MATERIALS ARE AVAILABLE TO COMMENCE WORK ON DATES PERMITTED.
- ONCE THE CLOSING IS EFFECTED, CONSTRUCTION SIGNS MUST BE PLACED AT APPROPRIATE LOCATIONS ON THE BARRICADES AT THE STREET AND MEZZANINE LEVELS, STATING THE CONTRACTOR'S NAME, 24 HOUR EMERGENCY TELEPHONE NUMBER, CONTRACT NUMBER, THE DURATION OF THE CLOSING, DIRECTION TO AN ALTERNATE ENTRANCE/EXIT, AND AN APOLOGY FOR THE INCONVENIENCE TO OUR CUSTOMERS.
- EXISTING STATION SIGNAGE MUST BE ADJUSTED TO REFLECT ANY CHANGES IN ACCESS/EGRESS.

35. BARRICADES ARE TO BE PAINTED AND KEPT GRAFFITI FREE AT ALL TIMES. THE CONTRACTOR MUST MAINTAIN THE BARRICADED AREA CLEAN OF ALL DEBRIS.

36. ALL MATERIALS ARE TO BE PROPERLY STORED AND SECURED AWAY FROM PASSENGER TRAFFIC.

37. THE CONTRACTOR MUST REMOVE ALL WASTE MATERIAL AND BARRICADES FROM ALL STATION AREAS WHEN CONSTRUCTION IS COMPLETED.

38. INSPECTION OF THE AREA UNDER CONSTRUCTION BY AUTHORIZED STATION DEPARTMENT EMPLOYEES SHALL NOT BE INHIBITED.

39. IF STREETLIGHTS ON THE SIDEWALKS ARE AFFECTED, TEMPORARY LIGHTS SHALL BE PROVIDED.

40. IF NEW CONCRETE CONSTRUCTION IS JOINED TO EXISTING CONCRETE, DOWELS AND KEYWAYS ARE TO BE USED IN ACCORDANCE WITH NYCT STANDARDS.

41. IF THE PROJECT INVOLVES CONSTRUCTION OR ALTERATION OF A SUBWAY FACILITY ON PRIVATE PROPERTY, THE PROPERTY OWNERS WILL BE REQUIRED TO ENTER INTO AN AGREEMENT WITH NYCT PERTAINING TO ALL WORK AFFECTING THE TRANSIT FACILITIES AND CLEARLY DEFINING LIMITS AND RESPONSIBILITY FOR MAINTENANCE AND LIABILITY.

42. WHEREVER A NEW SIDEWALK IS BEING PLACED ADJACENT TO NYCT STRUCTURES THE FOLLOWING WILL BE REQUIRED:

- THE TOP OF THE NEW SIDEWALK SHALL BE FLUSH WITH THE SUBWAY VENT GRATINGS, HATCHES AND EMERGENCY EXITS.
- THE SLOPE OF THE NEW SIDEWALK SHALL BE SUCH THAT THE DRAINAGE BE AWAY FROM THESE STRUCTURES.
- A 1/2" REMOLDED FILLER SHALL BE INSTALLED BETWEEN THE NEW SIDEWALK AND NYCT STRUCTURE.
- WHERE SIDEWALK ELEVATIONS ARE BEING CHANGED DETAILS OF PROPOSED WORK AROUND NYCT STRUCTURES ARE TO BE SUBMITTED FOR APPROVAL.

43. BEFORE ENTERING NYCT PROPERTY, CONTRACTOR OR SUBCONTRACTOR'S PERSONNEL SHALL HAVE ATTENDED NYCT TRACK SAFETY TRAINING AND EXPECT TO FOLLOW NYCT RULES AND REGULATIONS AS PER TRAINING AND ENGINEER INSTRUCTIONS

44. BEFORE THE START OF ANY WORK, THE CONTRACTOR SHALL MAKE AN EXAMINATION, IN THE PRESENCE OF NYCT'S ENGINEER, OF THE INTERIOR AND EXTERIOR OF NYCT SUBWAY OR OTHER STRUCTURE ADJACENT TO THE PROPOSED WORK. THE PERSON OR PERSONS AUTHORIZED BY THE CONTRACTOR TO MAKE THESE EXAMINATIONS SHALL BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL TAKE ALL PHOTOGRAPHS AS MAY BE NECESSARY OR ORDERED TO INDICATE THE EXISTING CONDITION OF NYCT STRUCTURE. ONE COPY OF EACH PHOTOGRAPH, EIGHT INCHES BY TEN INCHES IN SIZE, AND THE NEGATIVE IS TO BE SUBMITTED TO MR. JOHN MALVASIO, P.E., ASSISTANT CHIEF ENGINEERING OFFICER, MAINTENANCE-OF-WAY, 130 LIVINGSTON STREET, ROOM 8044D, BROOKLYN, NEW YORK 11201, TELEPHONE 718/694-1358 BEFORE THE START OF CONSTRUCTION.

45. ALL ARCHITECTURAL DETAILS (TOKEN BOOTHS, RAILINGS, DOORS, ETC.) ARE TO CONFORM TO THE LATEST NYCT STANDARDS. THESE STANDARDS ARE AVAILABLE AT NYCT.

46. STANDARD NYCT INSURANCE CLAUSES ARE TO BE MADE PART OF THE PROJECT'S CONTRACT DRAWINGS. PROOF THAT THE NECESSARY INSURANCE IS IN EFFECT WILL BE REQUIRED BEFORE WORK CAN COMMENCE.

47. AT THE CLOSE OF ANY PROJECT INVOLVING CONSTRUCTION OR ALTERATIONS TO TRANSIT FACILITIES, ONE SET OF VELLUMS OR MYLARS, FIVE SETS OF 35MM MICROFILM, AND ELECTRONIC COPIES COMPLYING TO MICROSTATION.DGN FORMAT OF "APPROVED AS-BUILTS" MUST BE PROVIDED TO NYCT FOR ITS RECORDS. FOR DETAILS OF SPECIFIC REQUIREMENTS CONTACT NYCT OUTSIDE PROJECTS.

48. AT LEAST SEVEN WORKING DAYS PRIOR TO THE START OF CONSTRUCTION OPERATIONS, NOTIFICATION MUST BE GIVEN TO MR. JOHN MALVASIO, P.E., ASSISTANT CHIEF ENGINEERING OFFICER, MAINTENANCE-OF-WAY, AT 718/694-1358. THE CONTRACTOR TO PROVIDE TEMPORARY QUARTERS NEAR THE JOB SITE FOR NYCT INSPECTORS CONTAINING A DESK AND TELEPHONE.

SECTION A: INSURANCE REQUIREMENTS

THE PERMITEE AT ITS SOLE COST AND EXPENSE SHALL CARRY AND MAINTAIN POLICIES OF INSURANCE AT ALL TIMES DURING THE PERIOD OF PERFORMANCE UNDER THIS AGREEMENT AS HERIN SET FORTH BELOW:

1. WORKERS' COMPENSATION: INCLUDING EMPLOYER'S LIABILITY INSURANCE WITH LIMITS OF LIABILITY NOT LESS THAN \$2,000,000 WHICH MAY BE MET BY A COMBINATION OF PRIMARY AND EXCESS INSURANCE MEETING THE STATUTORY LIMITS OF NEW YORK STATE.

2. COMMERCIAL GENERAL LIABILITY: (ISO 2001 FORM OR EQUIVALENT) APPROVED BY PERMITTOR IN THE PERMITEE'S NAME WITH LIMITS OF LIABILITY IN THE AMOUNT OF NOT LESS THAN \$3,000,000 FOR EACH OCCURRENCE ON A COMBINED SINGLE LIMIT BASIS FOR INJURIES TO PERSONS (INCLUDING DEATH) AND DAMAGE TO PROPERTY, \$3,000,000 GENERAL AGGREGATE AND \$3,000,000 IN THE AGGREGATE WITH RESPECT TO PRODUCTS/COMPLETED OPERATIONS. THE LIMITS MAY BE PROVIDED IN THE FORM OF A PRIMARY POLICY OR COMBINATION OF PRIMARY AND UMBRELLA/EXCESS POLICY. WHEN THE MINIMUM CONTRACT AMOUNTS CAN ONLY BE MET WHEN APPLYING THE UMBRELLA/EXCESS POLICY, THE UMBRELLA/EXCESS POLICY MUST FOLLOW THE FORM OF THE UNDERLYING POLICY AND BE EXTENDED TO "DROP DOWN" TO BECOME PRIMARY IN THE EVENT PRIMARY LIMITS ARE REDUCED OR AGGREGATE LIMITS ARE EXHAUSTED. SUCH INSURANCE SHALL BE PRIMARY AND NON-CONTRIBUTORY TO ANY OTHER VALID AND COLLECTIBLE INSURANCE AND MUST BE EXHAUSTED BEFORE IMPLICATING ANY PERMITTOR/MTA POLICY AVAILABLE.

SUCH POLICY SHOULD BE WRITTEN ON AN OCCURRENCE FORM, AND SHALL INCLUDE THE FOLLOWING COVERAGES:

- ADDITIONAL INSURED ENDORSEMENT (I.S.O. FORM CG 20 26 07/04) VERSION OR EQUIVALENT APPROVED BY THE PERMITTOR. SHALL NAME THE INDEMNITEES AS REFERENCED UNDER SECTION B OF THIS AGREEMENT AS ADDITIONAL INSUREDS.
- CONTRACTUAL LIABILITY ASSUMED BY THE PERMITEE UNDER THIS AGREEMENT;
- PERSONAL AND ADVERTISING INJURY;
- PRODUCTS-COMPLETED OPERATIONS;
- INDEPENDENT CONTRACTORS;
- "XCL" (EXPLOSION, COLLAPSE, AND UNDERGROUND HAZARDS) WHERE NECESSARY;
- CONTRACTUAL LIABILITY EXCLUSION, APPLICABLE TO CONSTRUCTION OR DEMOLITION OPERATIONS TO BE PERFORMED WITHIN 50 FEET OF RAILROAD TRACKS, MUST BE REMOVED, WHERE NECESSARY;

3. BUSINESS AUTOMOBILE LIABILITY: (ISO FORM CA 00 01 10 01 OR EQUIVALENT) APPROVED BY THE PERMITTOR IS REQUIRED IF PERMITEE'S VEHICLE ENTERS PERMITEE'S PROPERTY. THE INSURANCE MUST BE IN THE NAME OF THE PERMITEE OR ITS CONTRACTOR ENTERING THE PERMITTOR PROPERTY WITH LIMITS OF LIABILITY IN THE AMOUNT OF NOT LESS THAN \$2,000,000 EACH ACCIDENT FOR CLAIMS FOR BODILY INJURIES (INCLUDING DEATH) TO PERSONS AND FOR DAMAGE TO PROPERTY ARISING OUT OF THE OWNERSHIP, MAINTENANCE OR USE OF ANY OWNED, HIRED OR NON-OWNED MOTOR VEHICLE.

4. RAILROAD PROTECTIVE LIABILITY: (ISO-RIMA OR EQUIVALENT FORM) APPROVED BY PERMITTOR COVERING THE WORK TO BE PERFORMED AT THE DESIGNATED JOB SITE AND AFFORDING PROTECTION FOR DAMAGES ARISING OUT OF BODILY INJURY OR DEATH, PHYSICAL DAMAGE TO OR DESTRUCTION OF PROPERTY, INCLUDING DAMAGE TO THE INSURED'S OWN PROPERTY AND CONFORMING TO THE FOLLOWING:

- THE POLICY SHALL BE ISSUED TO THE "NAMED INSUREDS" LISTED UNDER SECTION B.
- THE LIMIT OF LIABILITY SHALL BE NOT LESS THAN \$2,000,000 PER OCCURRENCE, SUBJECT TO A \$6,000,000 ANNUAL AGGREGATE;
- POLICY MUST BE ENDORSED TO PROVIDE COVERAGE FOR CLAIMS ARISING FROM INJURY TO EMPLOYEES COVERED BY FEDERAL EMPLOYER'S LIABILITY ACT (FELA).
- INDICATE THE NAME AND ADDRESS OF THE DESIGNATED CONTRACTOR, PROJECT LOCATION AND DESCRIPTION OF WORK, AND PERMIT NUMBER IF APPLICABLE.
- EVIDENCE OF RAILROAD PROTECTIVE LIABILITY INSURANCE, MUST BE PROVIDED IN THE FORM OF A POLICY. A DETAILED INSURANCE BINDER (ACORD OR MANUSCRIPT FORM) WILL BE ACCEPTED PENDING ISSUANCE OF THE POLICY, WHICH MUST BE PROVIDED WITHIN 30 DAYS FROM THE EFFECTIVE DATE.

5. ENVIRONMENTAL INSURANCE: IN THE EVENT ENVIRONMENTAL OR POLLUTION EXPOSURES EXIST, THE PERMITEE SHALL REQUIRE THE ENVIRONMENTAL CONTRACTOR OR SUB-CONTRACTOR TO PROVIDE THE APPLICABLE INSURANCE COVERING SUCH EXPOSURE. THE LIMITS AND TYPES OF INSURANCE PROVIDED MUST BE SATISFACTORY TO THE PERMITTOR AND APPROVED PRIOR TO THE START OF THE WORK.

SECTION B: INDEMNITEES (ADDITIONAL INSUREDS / NAMED INSUREDS)

NEW YORK CITY TRANSIT AUTHORITY ("NYCT"), THE MANHATTAN AND BRONX SURFACE TRANSIT OPERATING AUTHORITY ("MABSTOA"), THE STATEN ISLAND RAPID TRANSIT OPERATING AUTHORITY ("SIRTOA"), THE METROPOLITAN TRANSPORTATION AUTHORITY ("MTA") INCLUDING ITS SUBSIDIARIES AND AFFILIATES, MTA CAPITAL CONSTRUCTION ("MTACCC"), MTA BUS COMPANY ("MTA BUS"), AND THE CITY OF NEW YORK ("CITY" AS OWNER) AND THE RESPECTIVE AFFILIATES AND SUBSIDIARIES EXISTING CURRENTLY OR IN THE FUTURE OF AND SUCCESSORS TO EACH INDEMNIFIED PARTIES LISTED HEREIN.

SECTION C: GENERAL INSURANCE REQUIREMENTS

1. INSURANCE COMPANIES: ALL OF THE INSURANCE REQUIRED BY THIS ARTICLE SHALL BE WITH COMPANIES LICENSED OR AUTHORIZED TO DO BUSINESS IN THE STATE OF NEW YORK WITH AN A.M. BEST COMPANY RATING OF NOT LESS THAN A-/VII OR BETTER AND REASONABLY APPROVED BY THE PERMITTOR/MTA.

2. FORMS: ALL FORMS SHALL COMPLY WITH THE INSURANCE SERVICES OFFICE, INC. ("ISO") OR ITS EQUIVALENT APPROVED BY THE INSURANCE DEPARTMENT OF THE STATE OF NEW YORK

3. POLICY DEDUCTIBLE / SELF INSURED RETENTION: INSURANCE MAY CONTAIN A DEDUCTIBLE AND OR SELF-INSURED RETENTION AND SHALL NOT EXCEED \$100,000. THE PERMITEE SHALL BE RESPONSIBLE FOR ALL CLAIM EXPENSES AND LOSS PAYMENTS WITHIN THE DEDUCTIBLE OR SELF-INSURED RETENTION.

4. POLICY TERMS: THESE POLICIES MUST: (I) BE WRITTEN IN ACCORDANCE WITH THE REQUIREMENTS OF THE PARAGRAPHS ABOVE, AS APPLICABLE; (II) BE ENDORSED IN FORM ACCEPTABLE TO INCLUDE A PROVISION THAT SHOULD THE POLICY BE CANCELED, MATERIALLY CHANGED, OR NOT RENEWED, NOTICE SHALL BE DELIVERED IN ACCORDANCE WITH THE INSURANCE POLICY PROVISIONS TO THE PERMITTOR; AND (III) STATE OR BE ENDORSED TO PROVIDE THAT THE COVERAGE AFFORDED UNDER THE PERMITEE'S POLICIES SHALL APPLY ON A PRIMARY AND NOT ON AN EXCESS OR CONTRIBUTING BASIS WITH ANY POLICIES WHICH MAY BE AVAILABLE TO THE PERMITTOR/MTA, AND ALSO THAT THE PERMITEE'S POLICIES, PRIMARY AND EXCESS, MUST BE EXHAUSTED BEFORE IMPLICATING ANY PERMITTOR/MTA POLICY AVAILABLE. (IV) IN ADDITION, PERMITEE'S POLICIES SHALL STATE OR BE ENDORSED TO PROVIDE THAT, IF A SUBCONTRACTOR'S POLICY CONTAINS ANY PROVISION THAT MAY ADVERSELY AFFECT WHETHER PERMITEE'S POLICIES ARE PRIMARY AND MUST BE EXHAUSTED BEFORE IMPLICATING ANY PERMITTOR/MTA POLICY AVAILABLE, PERMITEE'S AND SUBCONTRACTOR'S POLICIES SHALL NEVERTHELESS BE PRIMARY AND MUST BE EXHAUSTED BEFORE IMPLICATING ANY PERMITTOR/MTA POLICY AVAILABLE. AT LEAST TWO (2) WEEKS PRIOR TO THE EXPIRATION OF THE POLICIES, THE PERMITEE SHALL ENDEAVOR TO PROVIDE EVIDENCE OF RENEWAL OR REPLACEMENT POLICIES OF INSURANCE, WITH TERMS AND LIMITS NO LESS FAVORABLE THAN THE EXPIRING POLICIES.

SECTION D: SUBMISSION OF INSURANCE

CERTIFICATES OF INSURANCE MAY BE SUPPLIED AS EVIDENCE OF POLICIES EXCEPT FOR RAILROAD PROTECTIVE LIABILITY. HOWEVER, IF REQUESTED BY THE PERMITTOR, THE PERMITEE SHALL DELIVER TO THE PERMITTOR WITHIN FORTY-FIVE (45) DAYS A COPY OF SUCH POLICIES, CERTIFIED BY THE INSURANCE CARRIER AS BEING TRUE AND COMPLETE. IF A CERTIFICATE OF INSURANCE IS SUBMITTED, IT MUST: (1) BE PROVIDED ON THE PERMITTOR CERTIFICATE OF INSURANCE; (2) BE SIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE INSURANCE CARRIER OR PRODUCER AND NOTARIZED; (3) DISCLOSE ANY DEDUCTIBLE, SELF-INSURED RETENTION, SUB-LIMIT, AGGREGATE LIMIT OR ANY EXCLUSIONS TO THE POLICY THAT MATERIALLY CHANGE THE COVERAGE; (4) INDICATE THE ADDITIONAL INSUREDS AS REQUIRED HEREIN UNDER SECTION B; THE PERMITEE MUST PROVIDE A COPY OF THE ADDITIONAL INSURED ENDORSEMENT (ISO) FORM CG 20 26 07/04 OR ITS EQUIVALENT AND MUST REFERENCE THE POLICY INFORMATION; (5) INDICATE PROJECT NAME AND LOCATION ON THE CERTIFICATE; AND (6) EXPRESSLY REFERENCE THE INCLUSION OF ALL REQUIRED ENDORSEMENTS.

THE PERMITEE OR ITS CONTRACTOR/SUBCONTRACTOR PERFORMING THE WORK SHALL FURNISH EVIDENCE OF ALL POLICIES BEFORE ANY WORK IS STARTED TO THE APPROPRIATE DEPARTMENT:

NEW AGREEMENTS: RENEWAL INSURANCE:
MTA/NYCT MOW ENGINEERING MTA RISK INSURANCE MANAGEMENT
ATTENTION: MR. JOHN MALVASIO ATTENTION: RUTH APOSTOL
130 LIVINGSTON STREET 2 BROADWAY - 21ST FLOOR
BROOKLYN, NY 11201 NEW YORK, NY 10004

SECTION E: NO LIMIT OF LIABILITY

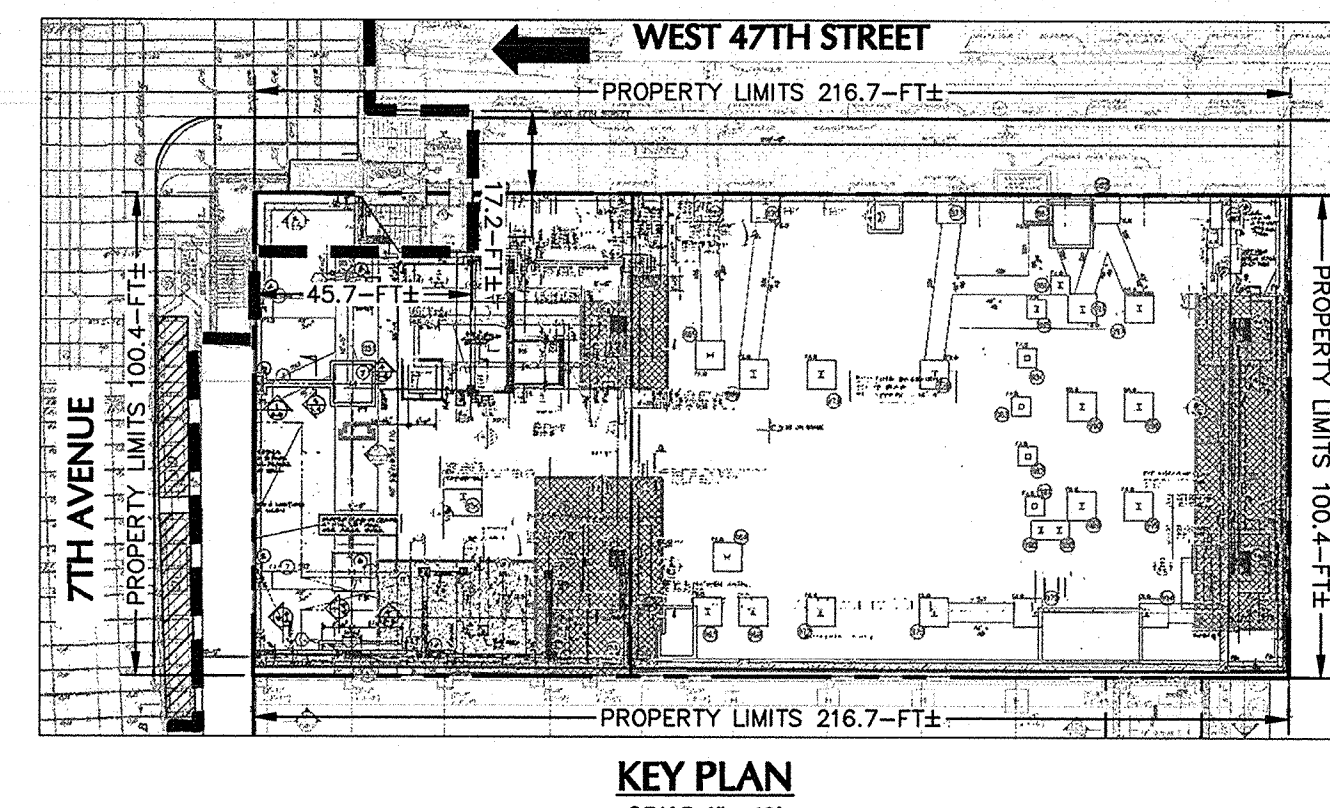
THE MINIMUM AMOUNTS OF INSURANCE REQUIRED IN THE DETAIL DESCRIPTION OF POLICIES ABOVE SHALL NOT BE CONSTRUED TO LIMIT THE EXTENT OF THE PERMITEE'S LIABILITY UNDER THIS AGREEMENT.

SECTION F: RIGHT TO REQUEST ADDITIONAL INSURANCE
PERMITEE FURTHER AGREES TO PROVIDE, AT PERMITEE'S SOLE COST AND EXPENSE, SUCH INCREASED OR EXPANDED INSURANCE COVERAGE AS PERMITTOR MAY FROM TIME TO TIME AS DEEM APPROPRIATE.

SECTION G: EVENT OF DEFAULT
IF, AT ANY TIME DURING THE PERIOD OF THIS AGREEMENT, INSURANCE AS REQUIRED IS NOT IN EFFECT, OR PROOF THEREOF IS NOT PROVIDED TO THE PERMITTOR, THE PERMITTOR SHALL HAVE THE OPTIONS TO: (I) DIRECT THE PERMITEE TO SUSPEND WORK OR OPERATION WITH NO ADDITIONAL COST OR EXTENSION OF TIME DUE ON ACCOUNT THEREOF; OR (II) TREAT SUCH FAILURE AS AN EVENT OF DEFAULT.

SECTION H: NOTICE OF CLAIM
THE PERMITEE SHALL IMMEDIATELY FILE WITH NYCT/MTA'S TORT DIVISION (WITH A COPY TO THE PROJECT MANAGER), 130 LIVINGSTON STREET, 11TH FLOOR, BROOKLYN, NEW YORK 11201, A NOTICE OF ANY OCCURRENCE LIKELY TO RESULT IN A CLAIM AGAINST NYCT/MTA AND SHALL ALSO FILE WITH THE TORTS DIVISION DETAILED SWORN PROOF OF INTEREST AND LOSS WITH THE CLAIM. THIS PARAGRAPH SHALL SURVIVE THE EXPIRATION OR EARLIER TERMINATION OF THE CONTRACT.

PHASE-3: EXCAVATION AND BRACING OF CAISSONS WHILE EXCAVATION



Platt Byard Dovel White Architects LLP
49 West 37th Street, New York, NY 10018
212.692.2440 | pbdw.com

Severud Associates | Structural Engineer
469 Seventh Avenue, 8th Floor
New York, NY 10018
212.986.3700 | severud.com

Cosentini Associates | Mechanical Engineer
Two Pennsylvania Plaza, 3rd Floor
New York, NY 10121
212.615.3600 | cosentini.com

AAI Architects, P.C. | Interior Architect
14 Wall Street, 2nd Floor
New York City, New York 10005
212.964.4040 | adamson-associates.com

Design 2147 Limited | Code Consultant
52 Diamond Street, Brooklyn, NY 11222
718.383.9340 | design2147.com

Iros Elevator, LLC | Elevator Consultant
884 Paterson Ave., East Rutherford, NJ 07073
973.776.4404 | iroseelevator.com

Theater Projects Consultants | Theater Consultant
47 Water Street
South Norwalk, Connecticut 068541
203.299.0830 | theaterprojects.com

Fisher Marantz Stone | Lighting Design
22 West 19th Street, Floor 6
New York, NY 10011
212.691.3020 | fmsps.com

Jaffe Holden | Acoustic Consultant
114-A Washington Street
Norwalk, CT 06854
203.838.4167 | jaffeholden.com

Yabu Pushelberg | Interior Design
55 BOOTH AVENUE
TORONTO, ON M4M 2M3
212.226.0808 | yabupushelberg.com

Langan Engineering | Geotechnical Engineer
21 Penn Plaza
360 West 31st Street, 8th Floor, New York, NY 10001
212.479.5400 | langan.com

Jablonski Building Conservation | Conservation Consulta
40 West 27th Street, 12th Floor
New York, NY 10001
212.532.7775 | jblconservation.com

Urban Foundation Engineering | Foundation Engineer
3233 111th Street
Flushing, NY 11369
718.478.3021

zeroLIX | Lighting Design
242 West 30th Street, Level 2
New York, NY 10001
212.209.1536

DOB APPROVAL STAMP

Date	No.	Description
04.13.2017	14	IN ACCORDANCE WITH NYCTA COMMENTS
03.13.2017	13	IN ACCORDANCE WITH NYCTA COMMENTS
02.28.2017	12	ISSUED FOR 50% CDs
02.24.2017	11	IN ACCORDANCE WITH NYCTA COMMENTS
11.10.2016	10	NYCTA SUBMISSION
10.28.2016	9	100% DESIGN DEVELOPMENT
09.02.2016	8	100% DESIGN DEVELOPMENT
07.15.2016	7	50% DESIGN DEVELOPMENT
05.24.2016	6	TA FILING
05.18.2016	5	DEVELOPMENT REPORT
04.08.2016	4	100% SCHEMATIC DESIGN
02.17.2016	3	50% SCHEMATIC DESIGN
12.24.2015	2	DEVELOPMENT REPORT
12.11.2015	1	FEASIBILITY STUDY

Date: No. Description

Project:

1568 Broadway

New York, NY 10036

Sheet Title:

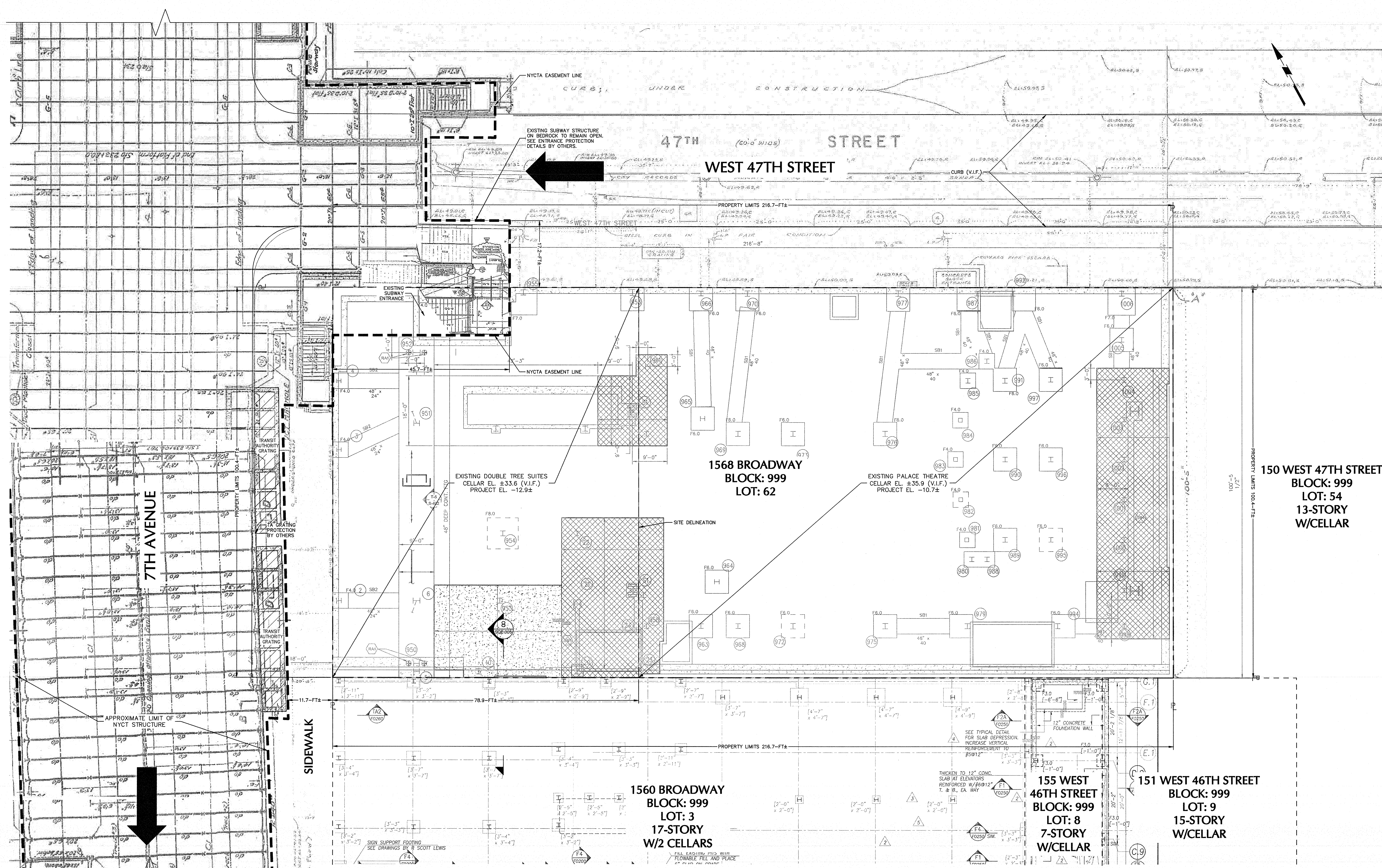
NEW YORK CITY
TRANSIT AUTHORITY
NOTES

Project Number: 13849	Signature & Seal:
Drawn By: SCS	
Checked By: LEF	
Scale: N.T.S.	
Sheet Number:	

SOE-004.00

NYC DOB Number:

Sheet:
4 of 25



1 GENERAL SITE PLAN
SCALE: 1"=10'

- GENERAL NOTES:**
- TOPOGRAPHIC SURVEY PROVIDED BY EARL B. LOVELL-S.P. BELCHER, INC DATED DECEMBER 14, 2015. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 - LIMITS OF NEW YORK CITY TRANSIT (NYCT) STRUCTURE ARE REFERENCED TO THE FOLLOWING DRAWINGS:
 - "ROOF AND SIDEWALK LEVEL PLAN" DATED 16 DECEMBER 2016.
 - "STRUCTURAL PLANS, 47TH STREET STATION ENTRANCES-EAST SIDE SECTION I-I" DATED 6 JULY 2016.
 - "STRUCTURAL PLANS, 47TH ST STA 233+10 TO STA 239+45 SECTION B-B" DATED 27 OCTOBER 2016.
 - REFERENCE NEW YORK CITY TRANSIT "SUBWAY ENTRANCE AGREEMENT" DATED 8 APRIL 1988 FOR TRANSIT AUTHORITY EASEMENT.

NOTE:

- THE SUBSURFACE PROFILE REPRESENTS A GENERALIZED SOIL AND ROCK CROSS SECTION INTERPRETED FROM WIDELY SPACED BORINGS. SOIL, ROCK AND GROUNDWATER MAY VARY IN TYPE, LOCATION, ELEVATION, AND ENVIRONMENTAL AND ENGINEERING PROPERTIES BETWEEN POINTS OF EXPLORATION. VARIATIONS IN SUBSURFACE CONDITIONS SHOULD BE EXPECTED BETWEEN BORINGS.

- LEGEND:**
- LIMITS OF NYCT STRUCTURE
 - PROPERTY LINE
 - DOUBLE TREE/PALACE THEATRE BUILDING PARTITION
 - ADJACENT BUILDING LIMITS

DOB APPROVAL STAMP		
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02.24.2017	11	IN ACCORDANCE WITH NYCTA COMMENTS
11.10.2016	10	NYCTA SUBMISSION
10.28.2016	9	100% DESIGN DEVELOPMENT
09.02.2016	8	100% DESIGN DEVELOPMENT
07.15.2016	7	80% DESIGN DEVELOPMENT
06.24.2016	6	TA FILING
05.18.2016	5	DEVELOPMENT REPORT
04.08.2016	4	100% SCHEMATIC DESIGN
02.11.2016	3	80% SCHEMATIC DESIGN
12.24.2015	2	DEVELOPMENT REPORT
12.11.2015	1	FEASIBILITY STUDY
Date:	No.:	Description:

Project:
1568 Broadway
New York, NY 10036

Sheet Title:
GENERAL SITE PLAN

Project Number:
13649

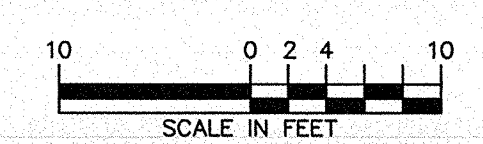
Signature & Seal:
[Signature]
Professional Engineer
No. 13649
Exp. 12/17

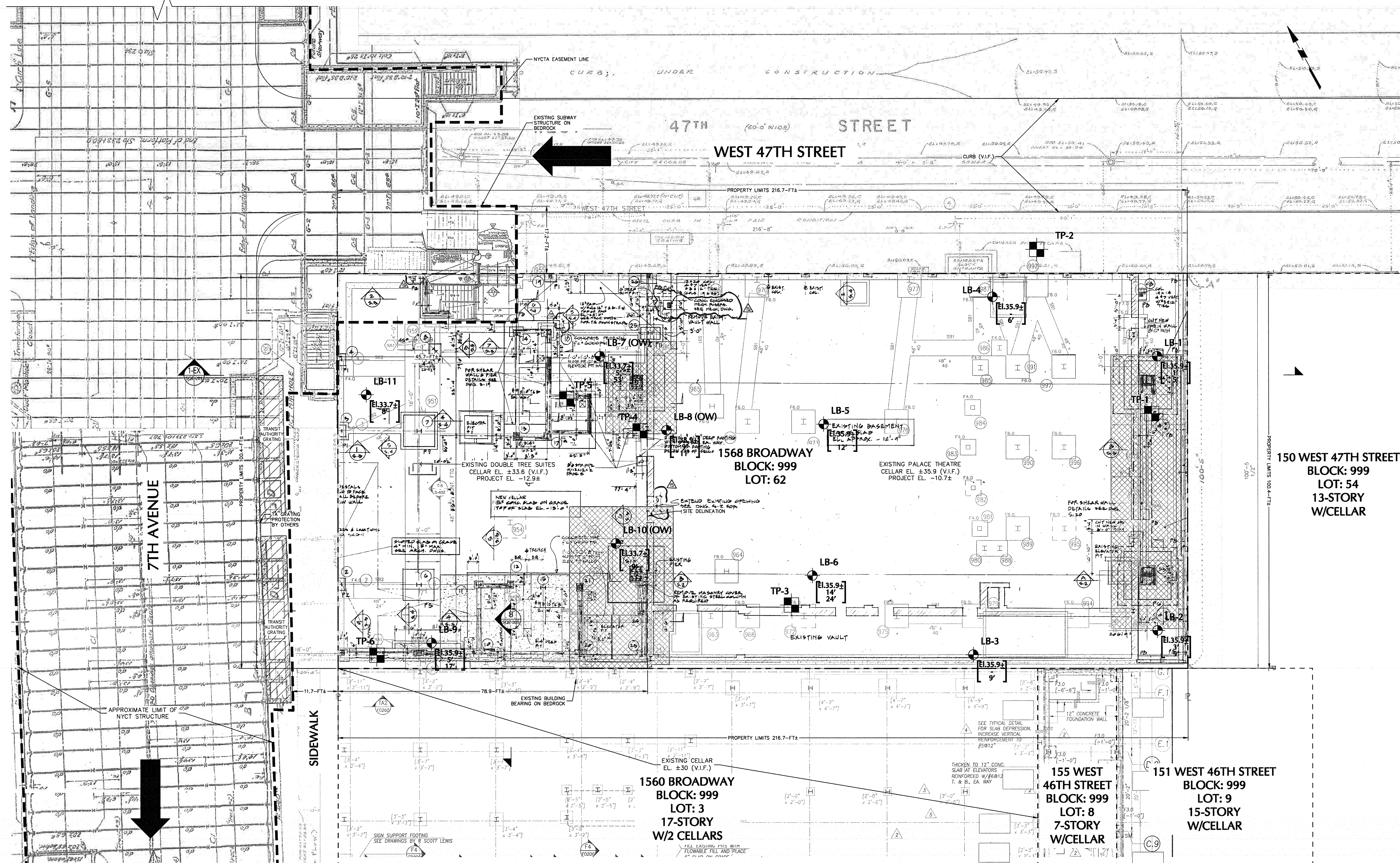
Drawn By:
SCS

Checked By:
LEF

Scale:
1" = 10'

Sheet Number:
SOE-101.00





2 EXISTING BUILDING AND SUBSURFACE EXPLORATION PLAN
SCALE: 1"=10'

GENERAL NOTES:

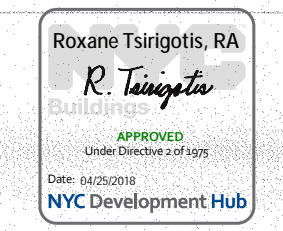
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2. ELEVATOR/EJECTOR PIT TAKEN FROM PBDW ARCHITECTS RECEIVED ON OCTOBER 24, 2016.
3. TOPOGRAPHIC SURVEY PROVIDED BY EARL B. LOVELL-S.P. BELCHER, INC DATED DECEMBER 14, 2015. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
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 - C. "STRUCTURAL PLANS, 47TH ST STA 233+10 TO STA 239+45 SECTION B-B" DATED 27 OCTOBER 1918.
5. REFERENCE NEW YORK CITY TRANSIT "SUBWAY ENTRANCE AGREEMENT" DATED 8 APRIL 1988 FOR TRANSIT AUTHORITY EASEMENT.
6. EXISTING FOUNDATION INFORMATION TAKEN FROM DESIMONE STRUCTURAL DRAWINGS DATED FEBRUARY 02, 1988, LATEST REVISION JANUARY 24, 1989.

NOTE:

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2. UPON COMPLETION OF NEW COLUMN INSTALLATION AND TRANSFERENCE OF LOAD, TEMPORARY SUPPORT CAISSON WILL BE REMOVED (REFERENCE URBAN FOUNDATION SUPPORT DRAWINGS FOR DETAIL).
3. REFER TO DEMOLITION BRACING PLANS BY HOWARD SHAPIRO.

LEGEND:

- LIMITS OF NYCT STRUCTURE
- - - PROPERTY LINE
- ◀ OPTICAL MONITORING POINT (AT 25 FT C/C AND MID-HEIGHT OF NYCT TUNNEL WEST WALL)
- SEISMOGRAPH LOCATION (AT 25 FT C/C AND MID-HEIGHT OF NYCT TUNNEL WEST WALL)
- ⤴ NYCT VENT SHAFT OPTICAL MONITORING POINTS
- ⊠ COMPLETED TEST PIT LOCATION
- ⊡ COMPLETED LANGAN BORING LOCATION
- ⬆ EXISTING GRADE ELEVATION
- 20' DEPTH TO THE TOP OF DECOMPOSED ROCK
- 30' DEPTH TO COMPACT BEDROCK



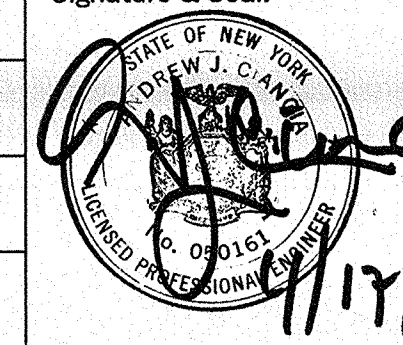
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02.24.2017	11	IN ACCORDANCE WITH NYCTA COMMENTS
11.10.2016	10	NYCTA SUBMISSION
10.28.2016	9	100% DESIGN DEVELOPMENT
09.02.2016	8	100% DESIGN DEVELOPMENT
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02.17.2016	3	50% SCHEMATIC DESIGN
12.24.2015	2	DEVELOPMENT REPORT
12.11.2015	1	FEASIBILITY STUDY

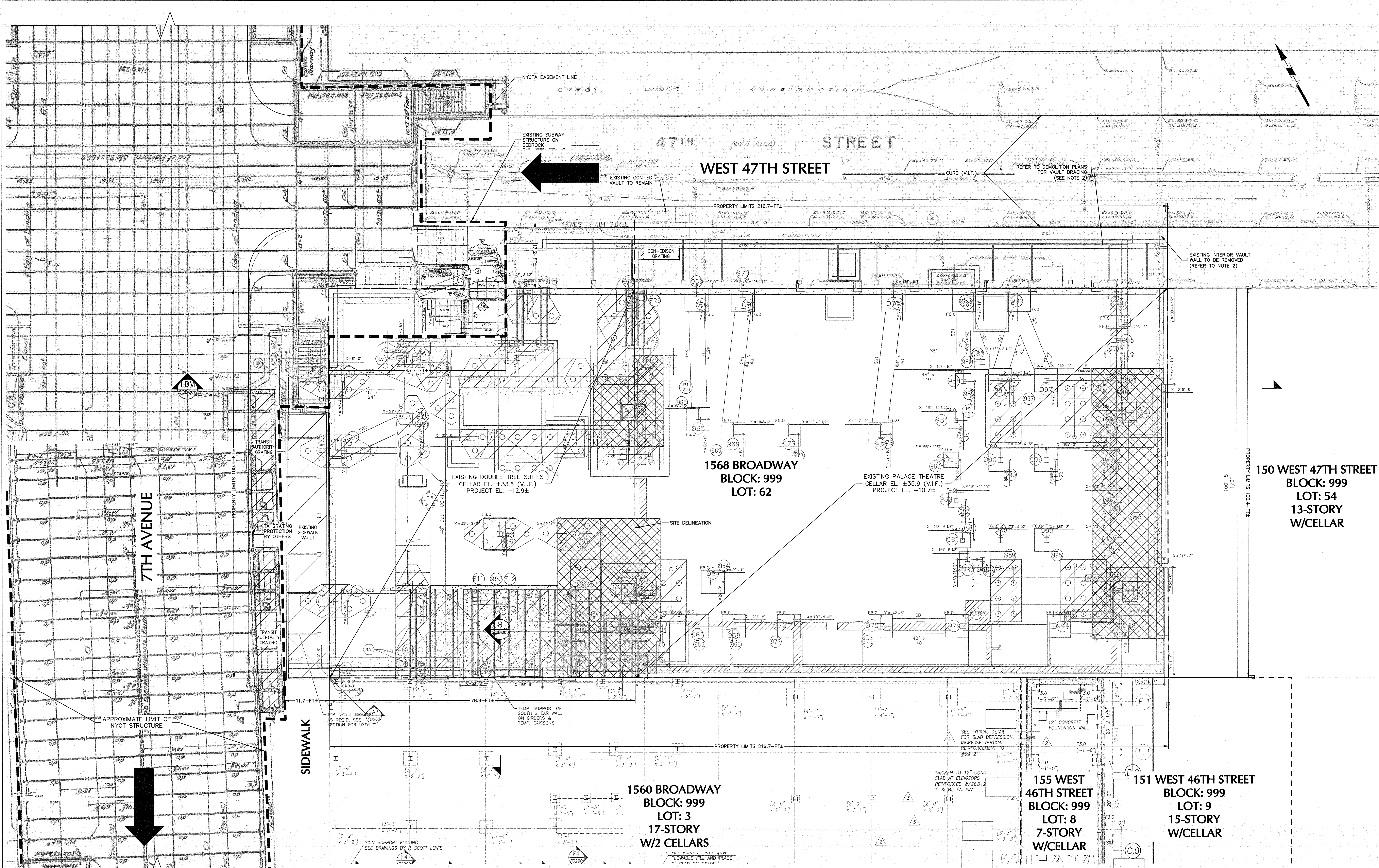
1568 Broadway

New York, NY 10036

Sheet Title:
EXISTING BUILDING & SUBSURFACE EXPLORATION PLAN

Project Number:
13649
Drawn By:
SCS
Checked By:
LEF
Scale:
1" = 10'
Sheet Number:
SOE-102.00

Signature & Seal:

1/17/19



GENERAL NOTES:

1. NEW FOUNDATION PLAN TAKEN FROM SEVERUD ASSOCIATES STRUCTURAL DRAWINGS RECEIVED ON JUNE 23, 2016, 2ND SUB-CELLAR INFORMATION RECEIVED ON JULY 15, 2016.
2. ELEVATOR/EJECTOR PIT TAKEN FROM PBDW ARCHITECTS RECEIVED ON OCTOBER 24, 2016.
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5. REFERENCE NEW YORK CITY TRANSIT "SUBWAY ENTRANCE AGREEMENT" DATED 8 APRIL 1988 FOR TRANSIT AUTHORITY EASEMENT.
6. EXISTING FOUNDATION INFORMATION TAKEN FROM DESIMONE STRUCTURAL DRAWINGS DATED FEBRUARY 02, 1988, LATEST REVISION JANUARY 24, 1989.

NOTE:

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3. REFER TO DEMOLITION BRACING PLANS BY HOWARD SHAPIRO.

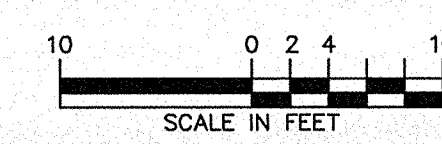
NOTE (CONT.):

4. DEMOLITION BRACING BY HOWARD I. SHAPIRO & ASSOCIATES. REFERENCE SUPPORT OF EXCAVATION DRAWINGS, "THEATRE/HOTEL BRACING" (SOE-104), FOR GENERAL DEMOLITION LAYOUT.
5. DEMOLITION BRACING BY URBAN FOUNDATION. REFERENCE SUPPORT OF EXCAVATION DRAWINGS, "THEATRE BRACING" (SOE-105), FOR GENERAL DEMOLITION LAYOUT.

3 HOWARD SHAPIRO DEMOLITION PLAN
SCALE: 1"=10'

LEGEND:

- LIMITS OF NYCT STRUCTURE
- - - PROPERTY LINE
- ◀ OPTICAL MONITORING POINT (AT 25 FT C/C AND MID-HEIGHT OF NYCT TUNNEL WEST WALL)
- SEISMOGRAPH LOCATION (AT 25 FT C/C AND MID-HEIGHT OF NYCT TUNNEL WEST WALL)
- ⋈ NYCT VENT SHAFT OPTICAL MONITORING POINTS
- ⊕ ROCK BOLT
- ⊕ ROCK ANCHOR
- A1 UNDERPINNING PIER



PBDW ARCHITECTS

Platt Byard Dovell White Architects LLP
49 West 37th Street, New York, NY 10018
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212.986.3700 | severud.com

Cosentini Associates | Mechanical Engineer
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AAI Architects, P.C. | Interior Architect
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New York City, New York 10005
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973.776.4404 | iroselector.com

Theater Projects Consultants | Theater Consultant
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South Norwalk, Connecticut 06854
203.299.0830 | theaterprojects.com

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zerolux Lighting Design
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New York, NY 10001
212.209.1536

DOB APPROVAL STAMP

Date	No.	Description
04.13.2017	14	IN ACCORDANCE WITH NYCTA COMMENTS
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02.28.2017	12	ISSUED FOR 50% CDs
02.24.2017	11	IN ACCORDANCE WITH NYCTA COMMENTS
11.10.2016	10	NYCTA SUBMISSION
10.28.2016	9	100% DESIGN DEVELOPMENT
09.09.2016	8	100% DESIGN DEVELOPMENT
07.15.2016	7	50% DESIGN DEVELOPMENT
06.24.2016	6	TA FILING
05.18.2016	5	DEVELOPMENT REPORT
04.08.2016	4	100% SCHEMATIC DESIGN
02.17.2016	3	50% SCHEMATIC DESIGN
12.24.2015	2	DEVELOPMENT REPORT
12.11.2015	1	FEASIBILITY STUDY

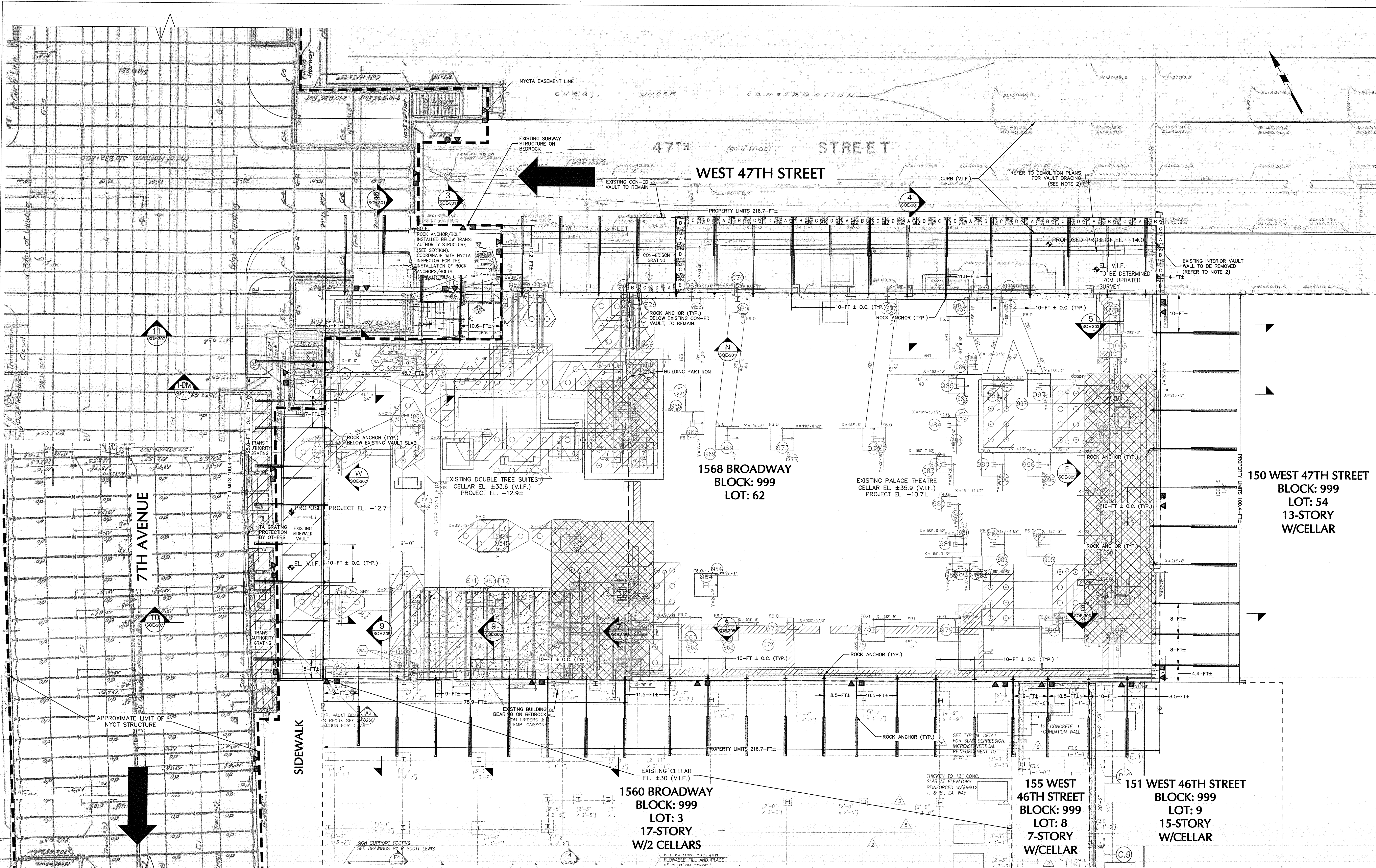
Project: 1568 Broadway

New York, NY 10036

Sheet Title: HOWARD SHAPIRO DEMOLITION PLAN

Project Number: 13849	Signature & Seal:
Drawn By: SCS	
Checked By: LEF	
Scale: 1" = 10'	
Sheet Number: SOE-103.00	

NYC DOB Number: _____ Sheet: 7 of 25

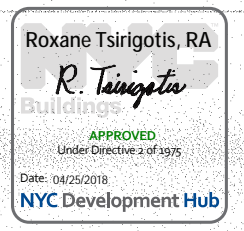


4 SHAPIRO DEMOLITION & SUPPORT OF EXCAVATION PLAN
SCALE: 1"=10'

- GENERAL NOTES:**
- NEW FOUNDATION PLAN TAKEN FROM SEVERUD ASSOCIATES STRUCTURAL DRAWINGS RECEIVED ON JUNE 23, 2016, 2ND SUB-CELLAR INFORMATION RECEIVED ON JULY 15, 2016.
 - ELEVATOR/EJECTOR PIT TAKEN FROM PBDW ARCHITECTS RECEIVED ON OCTOBER 24, 2016.
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C. "STRUCTURAL PLANS, 47TH ST STA 233+10 TO STA 239+45 SECTION B-B" DATED 27 OCTOBER 1918.
 - REFERENCE NEW YORK CITY TRANSIT "SUBWAY ENTRANCE AGREEMENT" DATED 8 APRIL 1988 FOR TRANSIT AUTHORITY EASEMENT.
 - EXISTING FOUNDATION INFORMATION TAKEN FROM DESIMONE STRUCTURAL DRAWINGS DATED FEBRUARY 02, 1988, LATEST REVISION JANUARY 24, 1989.

- NOTE (CONT.):**
- DEMOLITION BRACING BY HOWARD I. SHAPIRO & ASSOCIATES. REFERENCE SUPPORT OF EXCAVATION DRAWINGS, "THEATRE/HOTEL BRACING" (SOE-104), FOR GENERAL DEMOLITION LAYOUT.
 - DEMOLITION BRACING BY URBAN FOUNDATION. REFERENCE SUPPORT OF EXCAVATION DRAWINGS, "THEATRE BRACING" (SOE-105), FOR GENERAL DEMOLITION LAYOUT.

- LEGEND:**
- LIMITS OF NYCT STRUCTURE
 - - - PROPERTY LINE
 - ◀ OPTICAL MONITORING POINT (AT 25 FT C/C AND MID-HEIGHT OF NYCT TUNNEL WEST WALL)
 - SEISMOGRAPH LOCATION (AT 25 FT C/C AND MID-HEIGHT OF NYCT TUNNEL WEST WALL)
 - ∧ NYCT VENT SHAFT OPTICAL MONITORING POINTS
 - ⊕ ROCK BOLT
 - ⊕ ROCK ANCHOR
 - A1 UNDERPINNING PIER



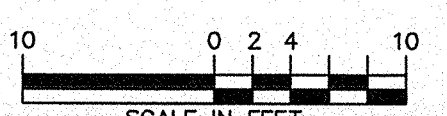
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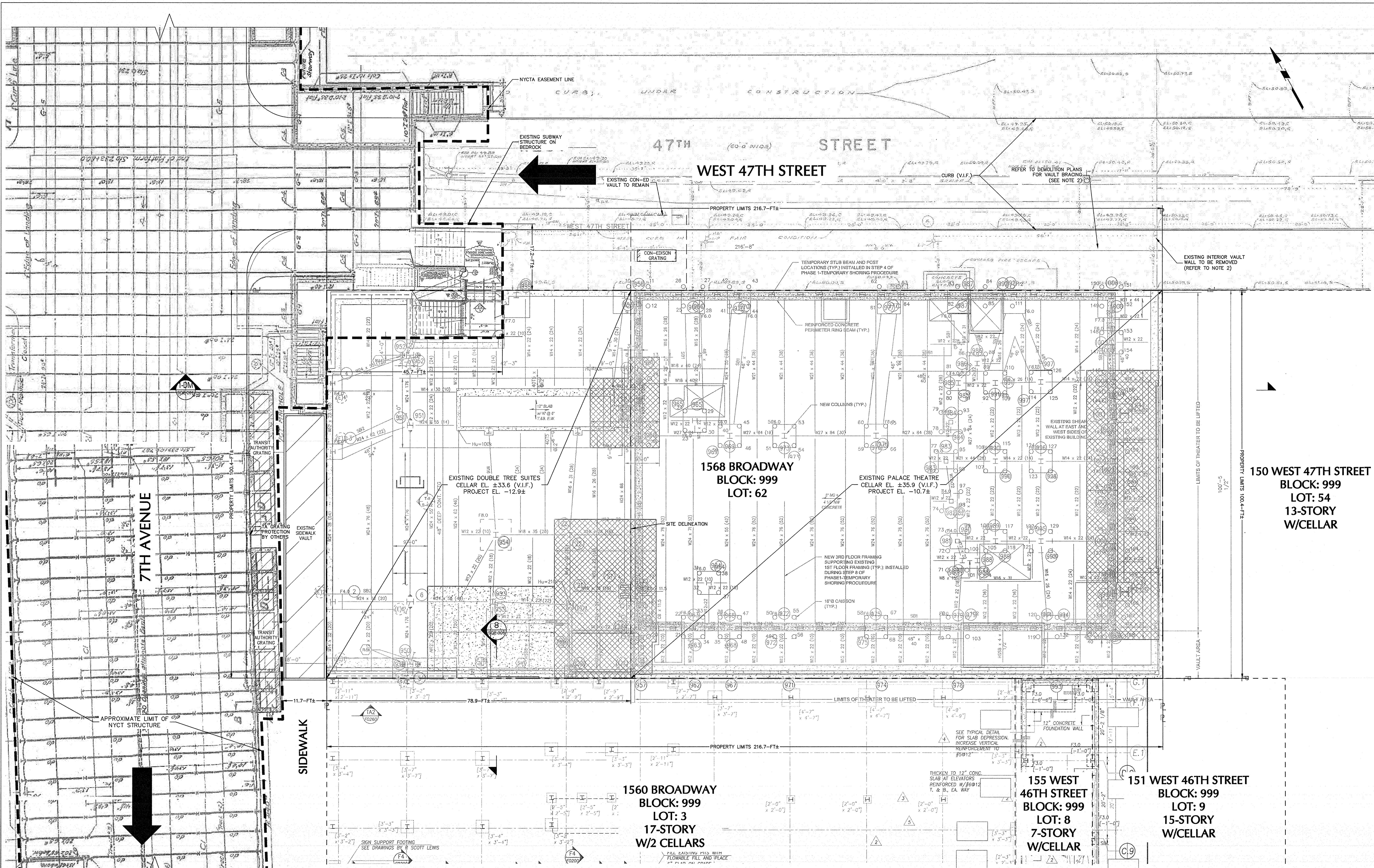
Date	No.	Description
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03.13.2017	13	IN ACCORDANCE WITH NYCTA COMMENTS
02.28.2017	12	ISSUED FOR 50% CDs
02.24.2017	11	IN ACCORDANCE WITH NYCTA COMMENTS
11.10.2016	10	NYCTA SUBMISSION
10.28.2016	9	100% DESIGN DEVELOPMENT
09.02.2016	8	100% DESIGN DEVELOPMENT
07.15.2016	7	50% DESIGN DEVELOPMENT
06.24.2016	6	ITA FILING
05.19.2016	5	DEVELOPMENT REPORT
04.08.2016	4	100% SCHEMATIC DESIGN
02.17.2016	3	50% SCHEMATIC DESIGN
12.24.2015	2	DEVELOPMENT REPORT
12.11.2015	1	FEASIBILITY STUDY

Project:
1568 Broadway
New York, NY 10036

Sheet Title:
SHAPIRO DEMOLITION & SUPPORT OF EXCAVATION PLAN

Project Number: 13849
Signature & Seal: [Signature]
Drawn By: SCS
Checked By: LEP
Scale: 1"=10'
Sheet Number: SOE-104.00





5 URBAN FOUNDATION THEATRE DEMOLITION PLAN
SCALE: 1"=10'

GENERAL NOTES:

- NEW FOUNDATION PLAN TAKEN FROM SEVERUD ASSOCIATES STRUCTURAL DRAWINGS RECEIVED ON JUNE 23, 2016, 2ND SUB-CELLAR INFORMATION RECEIVED ON JULY 15, 2016.
- ELEVATOR/EJECTOR PIT TAKEN FROM PBDW ARCHITECTS RECEIVED ON OCTOBER 24, 2016.
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 - C. "STRUCTURAL PLANS, 47TH ST STA 233+10 TO STA 239+45 SECTION B-B" DATED 27 OCTOBER 1918.
- REFERENCE NEW YORK CITY TRANSIT "SUBWAY ENTRANCE AGREEMENT" DATED 8 APRIL 1988 FOR TRANSIT AUTHORITY EASEMENT.
- EXISTING FOUNDATION INFORMATION TAKEN FROM DESIMONE STRUCTURAL DRAWINGS DATED FEBRUARY 02, 1988, LATEST REVISION JANUARY 24, 1989.

NOTE:

- THE SUBSURFACE PROFILE REPRESENTS A GENERALIZED SOIL AND ROCK CROSS SECTION INTERPRETED FROM WIDELY SPACED BORINGS. SOIL, ROCK AND GROUNDWATER MAY VARY IN TYPE, LOCATION, ELEVATION, AND ENVIRONMENTAL AND ENGINEERING PROPERTIES BETWEEN POINTS OF EXPLORATION. VARIATIONS IN SUBSURFACE CONDITIONS SHOULD BE EXPECTED BETWEEN BORINGS.
- UPON COMPLETION OF NEW COLUMN INSTALLATION AND TRANSFERENCE OF LOAD, TEMPORARY SUPPORT CAISSON WILL BE REMOVED (REFERENCE URBAN FOUNDATION SUPPORT DRAWINGS FOR DETAIL).
- REFER TO DEMOLITION BRACING PLANS BY HOWARD SHAPIRO.

NOTE (CONT.):

- DEMOLITION BRACING BY HOWARD I. SHAPIRO & ASSOCIATES. REFERENCE SUPPORT OF EXCAVATION DRAWINGS, "THEATRE/HOTEL BRACING" (SOE-104), FOR GENERAL DEMOLITION LAYOUT.
- DEMOLITION BRACING BY URBAN FOUNDATION. REFERENCE SUPPORT OF EXCAVATION DRAWINGS, "THEATRE BRACING" (SOE-105), FOR GENERAL DEMOLITION LAYOUT.

LEGEND:

- LIMITS OF NYCT STRUCTURE
- - - PROPERTY LINE
- ◀ OPTICAL MONITORING POINT (AT 25 FT C/C AND MID-HEIGHT OF NYCT TUNNEL WEST WALL)
- SEISMOGRAPH LOCATION (AT 25 FT C/C AND MID-HEIGHT OF NYCT TUNNEL WEST WALL)
- ∧ NYCT VENT SHAFT OPTICAL MONITORING POINTS
- ⊥ ROCK BOLT
- ⊥ ROCK ANCHOR
- A1 UNDERPINNING PIER

DOB APPROVAL STAMP

04.13.2017	14	IN ACCORDANCE WITH NYCTA COMMENTS
03.13.2017	13	IN ACCORDANCE WITH NYCTA COMMENTS
02.28.2017	12	ISSUED FOR 50% CD
02.24.2017	11	IN ACCORDANCE WITH NYCTA COMMENTS
11.10.2016	10	NYCTA SUBMISSION
10.28.2016	9	100% DESIGN DEVELOPMENT
09.02.2016	8	100% DESIGN DEVELOPMENT
07.15.2016	7	50% DESIGN DEVELOPMENT
06.24.2016	6	TA FILING
05.18.2016	5	DEVELOPMENT REPORT
04.08.2016	4	100% SCHEMATIC DESIGN
02.17.2016	3	50% SCHEMATIC DESIGN
12.24.2015	2	DEVELOPMENT REPORT
12.11.2015	1	FEASIBILITY STUDY

Date: No.: Description:

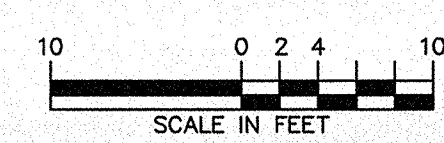
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1568 Broadway

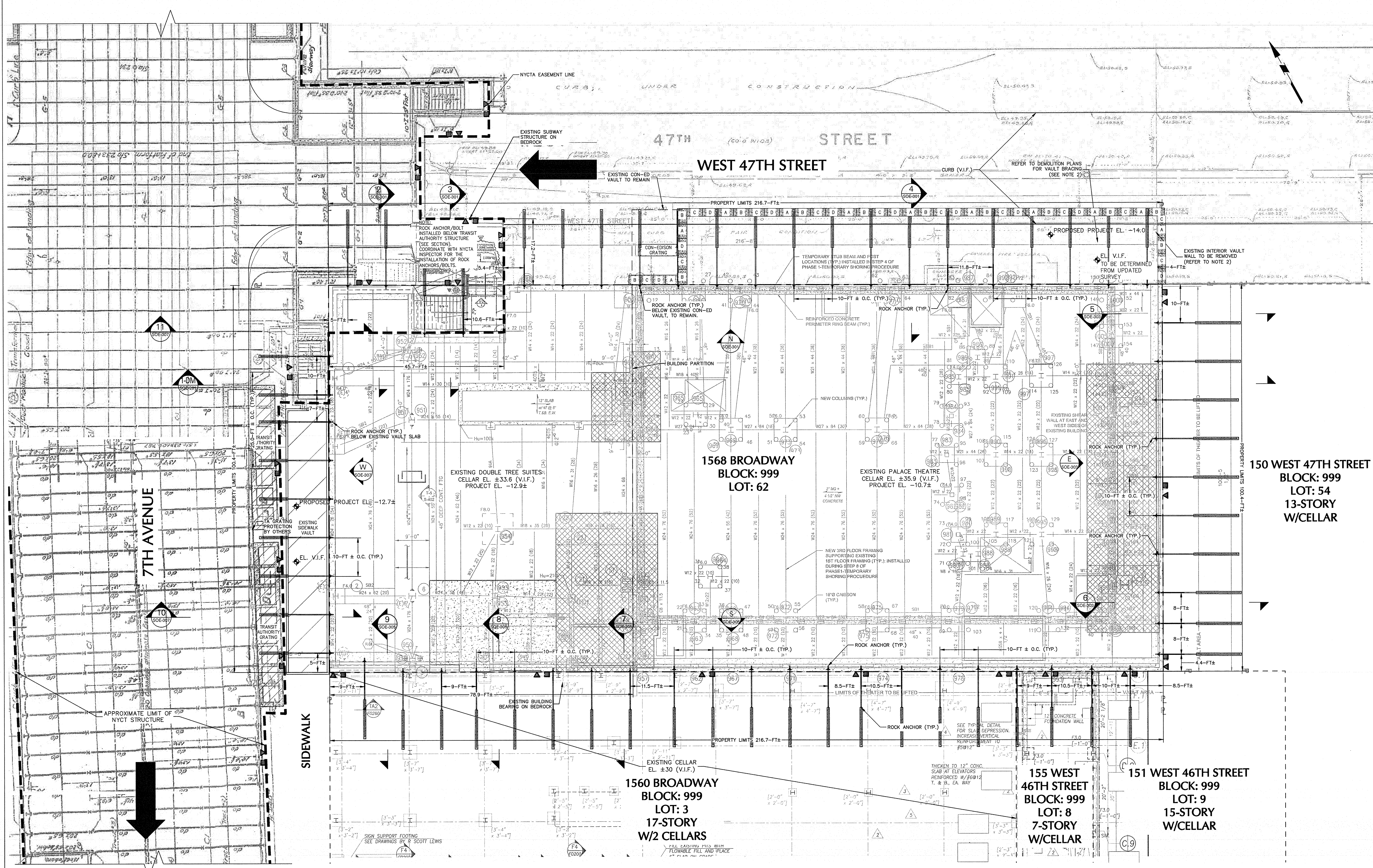
New York, NY 10036

Sheet Title:
URBAN FOUNDATION THEATRE DEMOLITION PLAN

Project Number: 13649
Drawn By: SCS
Checked By: LEF
Scale: 1"=10'
Sheet Number: SOE-105.00

Signature & Seal:
[Signature]
Professional Engineer
No. 111117





6 URBAN THEATRE DEMOLITION & SUPPORT OF EXCAVATION PLAN
SCALE: 1"=10'

GENERAL NOTES:

- NEW FOUNDATION PLAN TAKEN FROM SEVERUD ASSOCIATES STRUCTURAL DRAWINGS RECEIVED ON JUNE 23, 2016, 2ND SUB-CELLAR INFORMATION RECEIVED ON JULY 15, 2016.
- ELEVATOR/EJECTOR PIT TAKEN FROM PBDW ARCHITECTS RECEIVED ON OCTOBER 24, 2016.
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C. "STRUCTURAL PLANS, 47TH ST STA 233+10 TO STA 239+45 SECTION B-B" DATED 27 OCTOBER 1918.
- REFERENCE NEW YORK CITY TRANSIT "SUBWAY ENTRANCE AGREEMENT" DATED 8 APRIL 1988 FOR TRANSIT AUTHORITY EASEMENT.
- EXISTING FOUNDATION INFORMATION TAKEN FROM DESIMONE STRUCTURAL DRAWINGS DATED FEBRUARY 02, 1988, LATEST REVISION JANUARY 24, 1989.

NOTE:

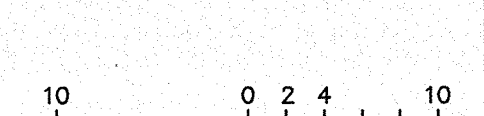
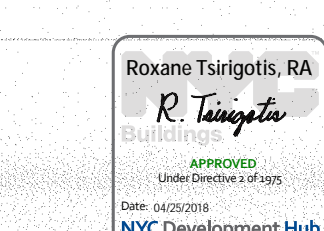
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- DEMOLITION BRACING BY URBAN FOUNDATION. REFERENCE SUPPORT OF EXCAVATION DRAWINGS, "THEATRE BRACING" (SOE-105), FOR GENERAL DEMOLITION LAYOUT.

LEGEND:

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- SEISMOGRAPH LOCATION (AT 25 FT C/C AND MID-HEIGHT OF NYCT TUNNEL WEST WALL)
- ∧ NYCT VENT SHAFT OPTICAL MONITORING POINTS
- ⊕ ROCK BOLT
- ⊕ ROCK ANCHOR
- A1 UNDERPINNING PIER



PHASE-3: EXCAVATION AND BRACING OF CAISSONS WHILE EXCAVATION

PBDW ARCHITECTS

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718.383.9340 | design2147.com

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South Norwalk, Connecticut 06854
203.299.0830 | theaterprojects.com

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212.479.5400 | langan.com

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Urban Foundation Engineering | Foundation Engineer
3233 111th Street
Flushing, NY 11369
718.478.3021

zeroLUX | Lighting Design
242 West 30th Street, Level 2
New York, NY 10001
212.209.1536

DOB APPROVAL STAMP

04.13.2017	14	IN ACCORDANCE WITH NYCTA COMMENTS
03.13.2017	13	IN ACCORDANCE WITH NYCTA COMMENTS
02.28.2017	12	ISSUED FOR 50% CDS
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12.24.2015	2	DEVELOPMENT REPORT
12.11.2015	1	FEASIBILITY STUDY
Date:	No.:	Description:

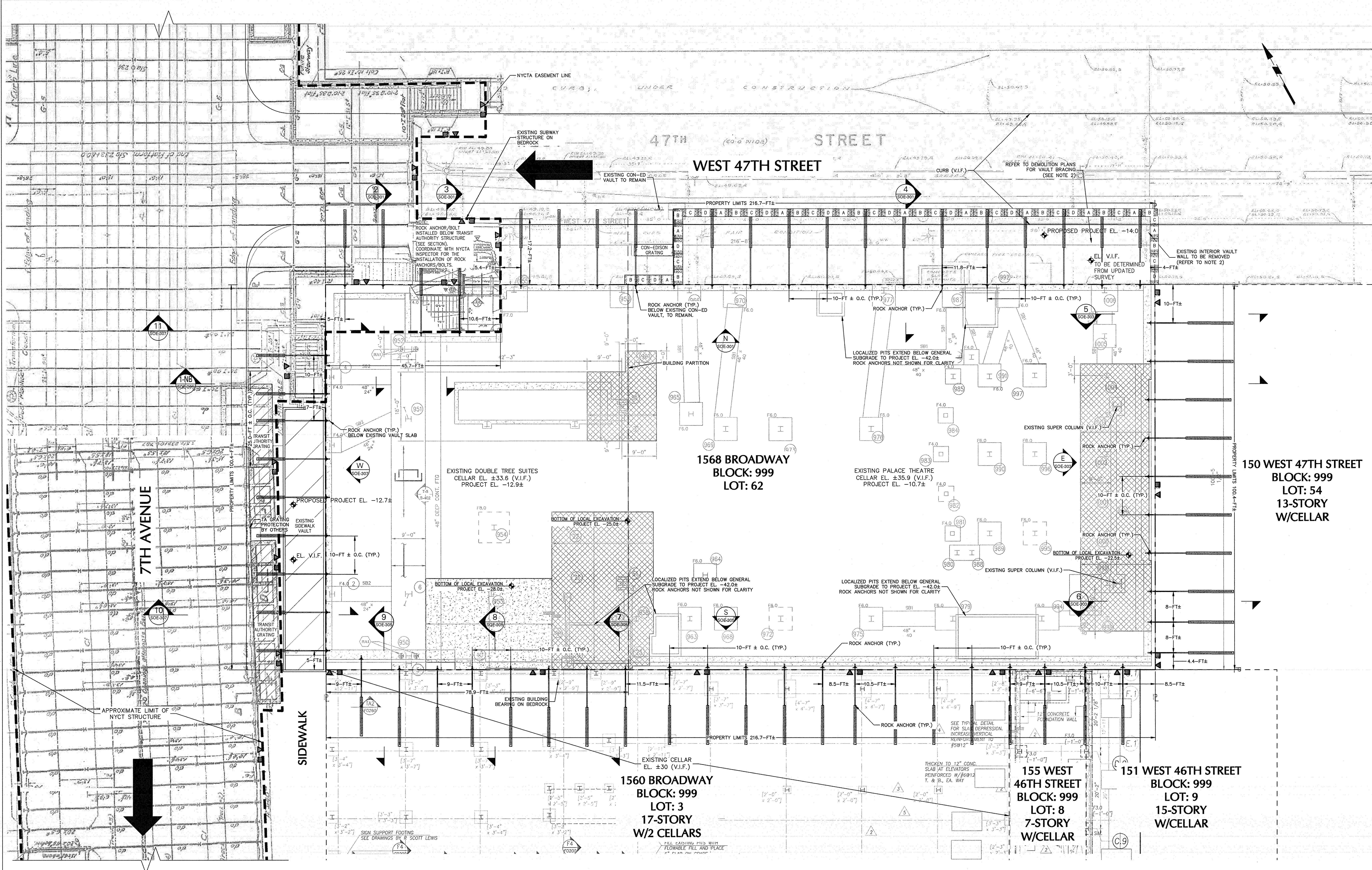
1568 Broadway

New York, NY 10036

THEATRE DEMOLITION & SUPPORT OF EXCAVATION PLAN

Project Number: 13649
Drawn By: SCS
Checked By: LEF
Scale: 1" = 10'
Sheet Number: SOE-106.00

Signature & Seal
R. Tanguay
Professional Engineer
State of New York
No. 13649
Exp. 12/31/17



7 NEW BUILDING & SUPPORT OF EXCAVATION PLAN
SCALE: 1" = 10'

GENERAL NOTES:

1. NEW FOUNDATION PLAN TAKEN FROM SEVERUD ASSOCIATES STRUCTURAL DRAWINGS RECEIVED ON JUNE 23, 2016, 2ND SUB-CELLAR INFORMATION RECEIVED ON JULY 15, 2016.
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NOTE:

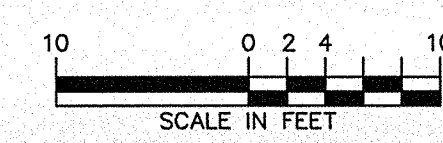
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NOTE (CONT.):

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212.209.1536

DOB APPROVAL STAMP

04.13.2017	14	IN ACCORDANCE WITH NYCTA COMMENTS
03.13.2017	13	IN ACCORDANCE WITH NYCTA COMMENTS
02.28.2017	12	ISSUED FOR 50% CDS
02.24.2017	11	IN ACCORDANCE WITH NYCTA COMMENTS
11.10.2016	10	NYCTA SUBMISSION
10.28.2016	9	100% DESIGN DEVELOPMENT
09.02.2016	8	100% SCHEMATIC DESIGN
07.15.2016	7	50% DESIGN DEVELOPMENT
06.24.2016	6	TA FILING
05.18.2016	5	DEVELOPMENT REPORT
04.08.2016	4	100% SCHEMATIC DESIGN
02.17.2016	3	50% SCHEMATIC DESIGN
12.24.2015	2	DEVELOPMENT REPORT
12.11.2015	1	FEASIBILITY STUDY
Date:	No.:	Description:

Project: 1568 Broadway

New York, NY 10036

Sheet Title:

NEW BUILDING & SUPPORT OF EXCAVATION PLAN

Project Number: 13649
Drawn By: SCS
Checked By: LEF
Scale: 1" = 10'

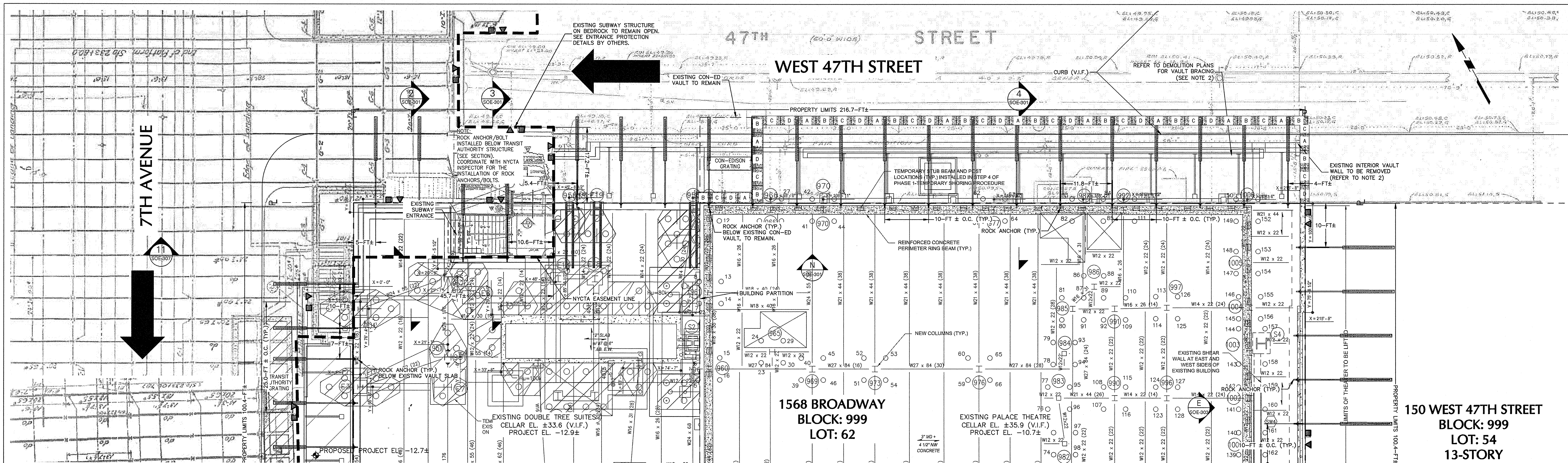
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Professional Engineer
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Date: 11/17/17

Sheet Number:

SOE-107.00

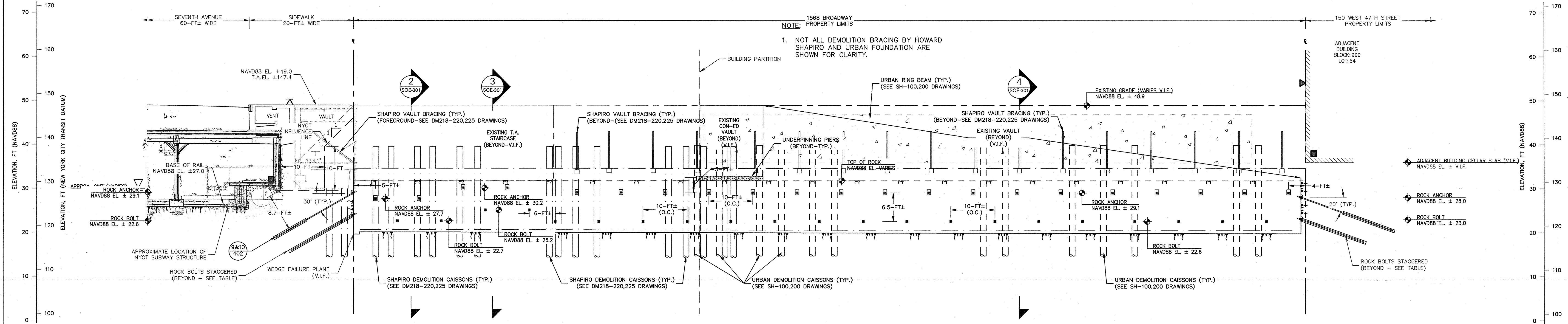
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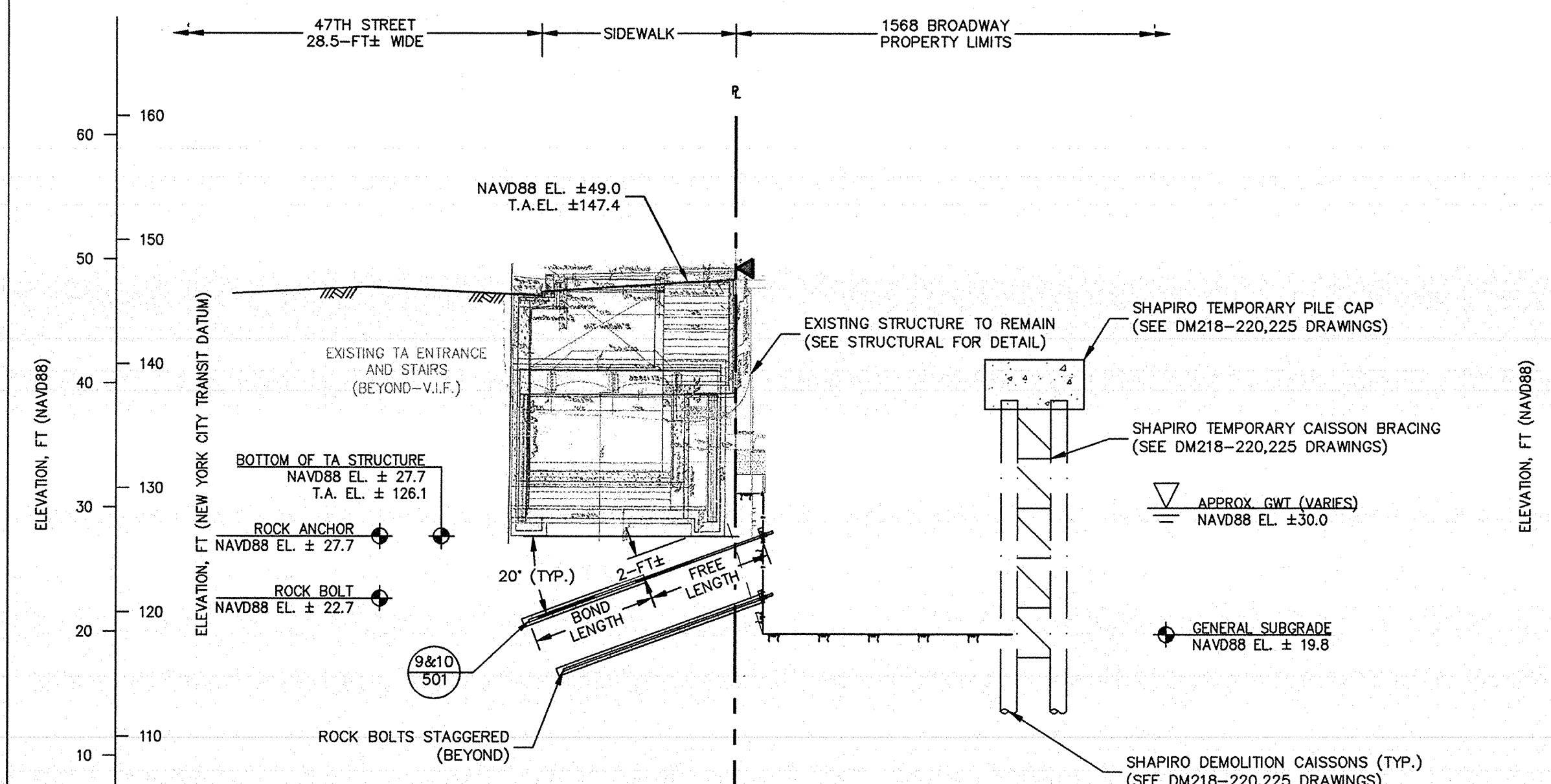


NORTH PART PLAN: DEMO/EXCAVATION
SCALE: 1" = 10'

NOTE:
1. SEE SOE-401 & SOE-402 FOR TRANSIT AUTHORITY DETAILED SECTIONS 1 AND 2.



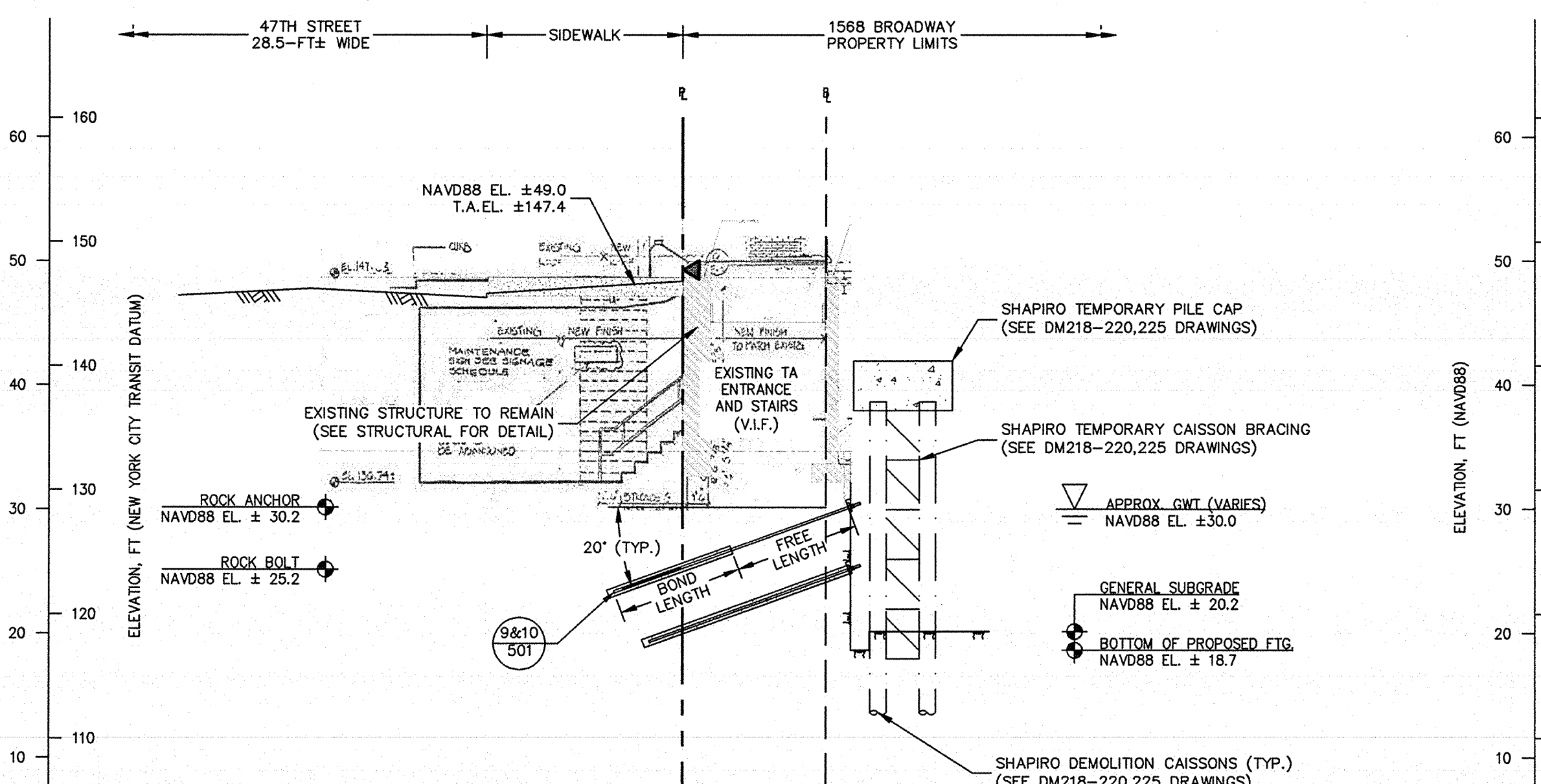
NORTH ELEVATION: DEMO/EXCAVATION
SCALE: 1" = 10'



SECTION 2: DEMO/EXCAVATION
SCALE: 1" = 10'

GENERAL NOTES:

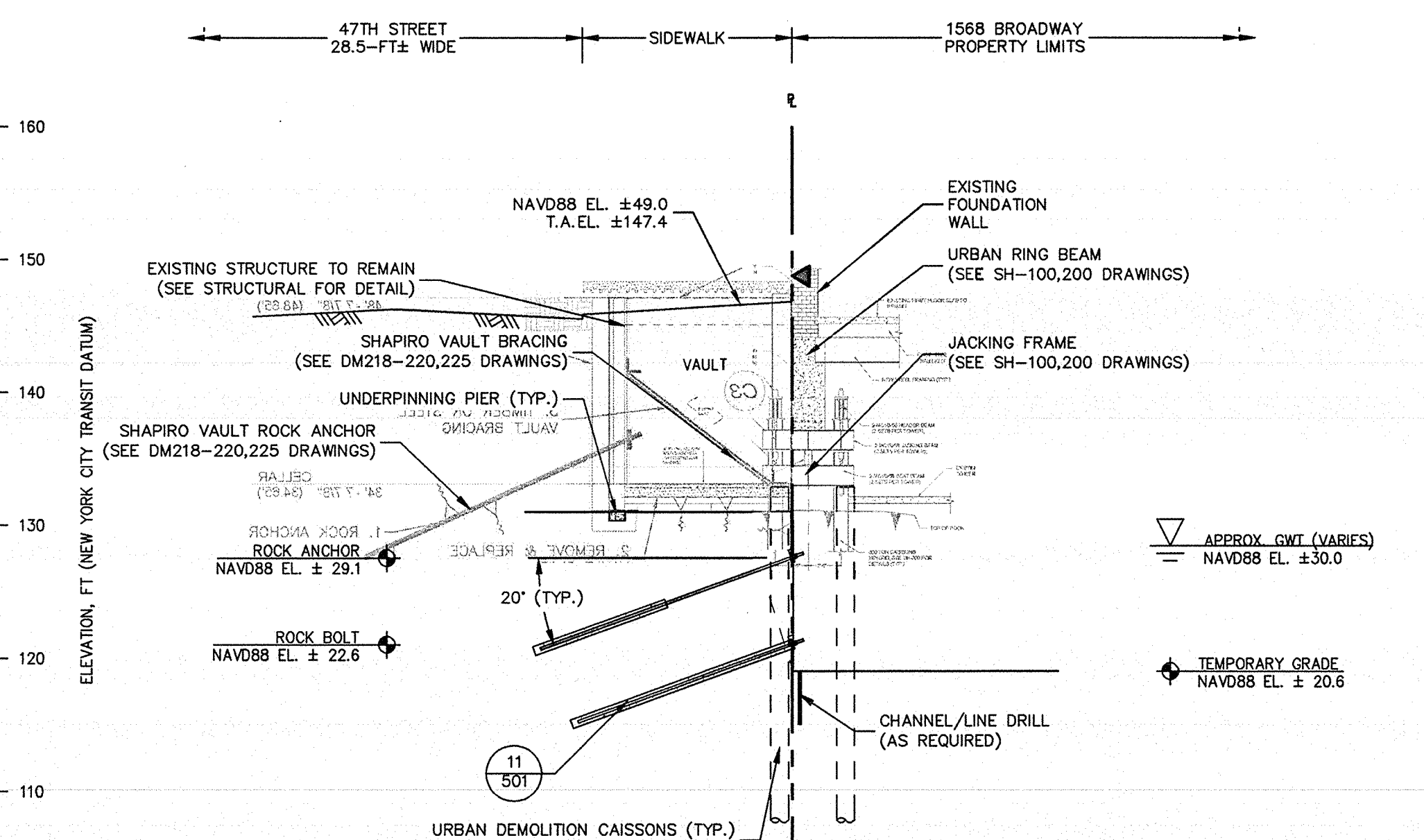
- NEW FOUNDATION PLAN TAKEN FROM SEVERUD ASSOCIATES STRUCTURAL DRAWINGS RECEIVED ON JUNE 23, 2016, 2ND SUB-CELLAR INFORMATION RECEIVED ON JULY 15, 2016.
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SECTION 3: DEMO/EXCAVATION
SCALE: 1" = 10'

GENERAL NOTES (CONT.):

- DEPTH AND DIMENSION OF EXISTING FOOTINGS TO BE VERIFIED IN FIELD.
- ROCK EXCAVATION TO BE PERFORMED MINIMUM 1 FT FROM FACE OF EXISTING FOOTING.
- PROPOSED FOUNDATION WALL THICKNESS TO BE COORDINATED WITH STRUCTURAL ENGINEER AND STRUCTURAL DRAWINGS.
- ROCK BOLTS TO BE INSTALLED AS NEEDED.
- UNDERGROUND UTILITIES NOT SHOWN.



SECTION 4: DEMO/EXCAVATION
SCALE: 1" = 10'

GENERAL NOTES (CONT.):

- THE SUBSURFACE PROFILE REPRESENTS A GENERALIZED SOIL AND ROCK CROSS SECTION INTERPRETED FROM WIDELY SPACED BORINGS. SOIL, ROCK AND GROUNDWATER MAY VARY IN TYPE, LOCATION, ELEVATION, AND ENVIRONMENTAL AND ENGINEERING PROPERTIES BETWEEN POINTS OF EXPLORATION. VARIATIONS IN SUBSURFACE CONDITIONS SHOULD BE EXPECTED BETWEEN BORINGS.
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- REFER TO DEMOLITION BRACING PLANS BY HOWARD SHAPIRO.

LEGEND:

- LIMITS OF NYCT STRUCTURE
- - - PROPERTY LINE
- ROCK BOLT
- ROCK ANCHOR
- UNDERPINNING PIER

DOB APPROVAL STAMP

Date	No.	Description
04.13.2017	14	IN ACCORDANCE WITH NYCTA COMMENTS
03.13.2017	13	IN ACCORDANCE WITH NYCTA COMMENTS
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02.24.2017	11	IN ACCORDANCE WITH NYCTA COMMENTS
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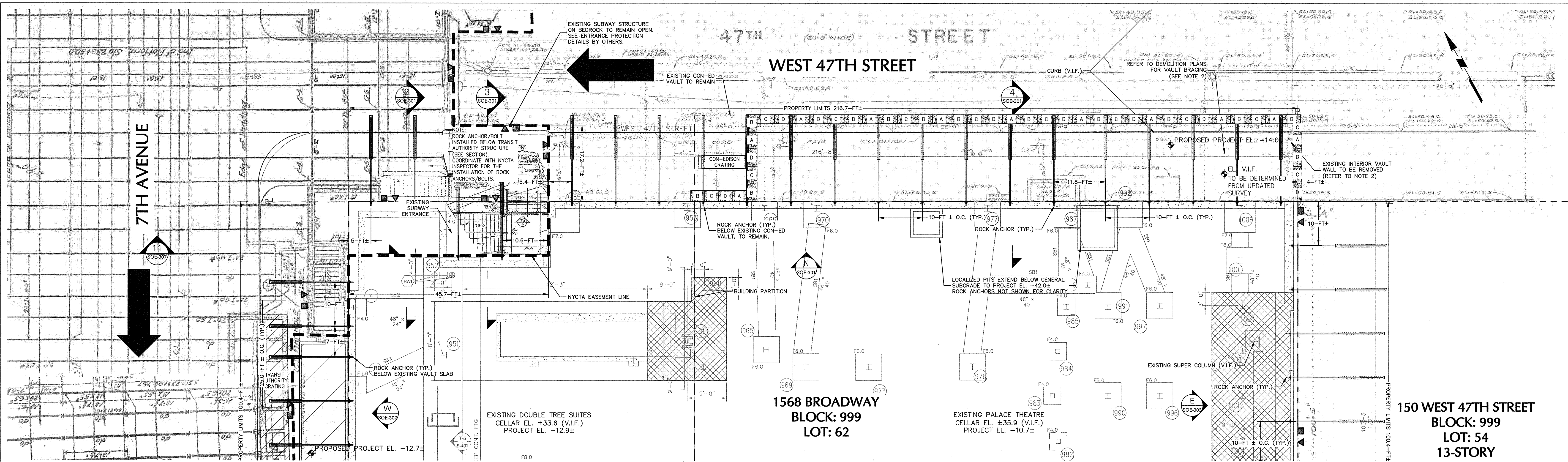
Date: No.: Description:

Project: 1568 Broadway
New York, NY 10036

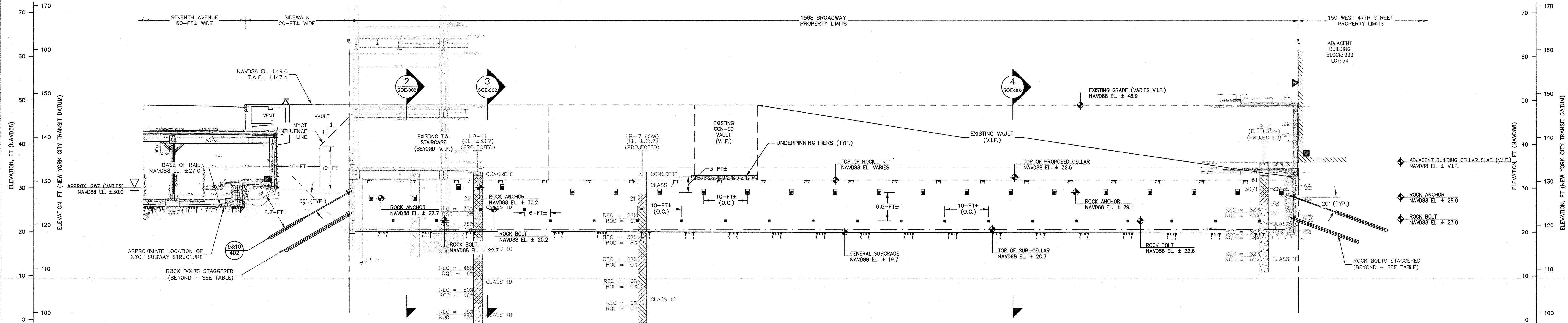
SHEET TITLE:
SUPPORT OF EXCAVATION
NORTH
(STAGING)

Project Number: 13649
Drawn By: SCS
Checked By: LEF
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Sheet Number: SOE-301.00

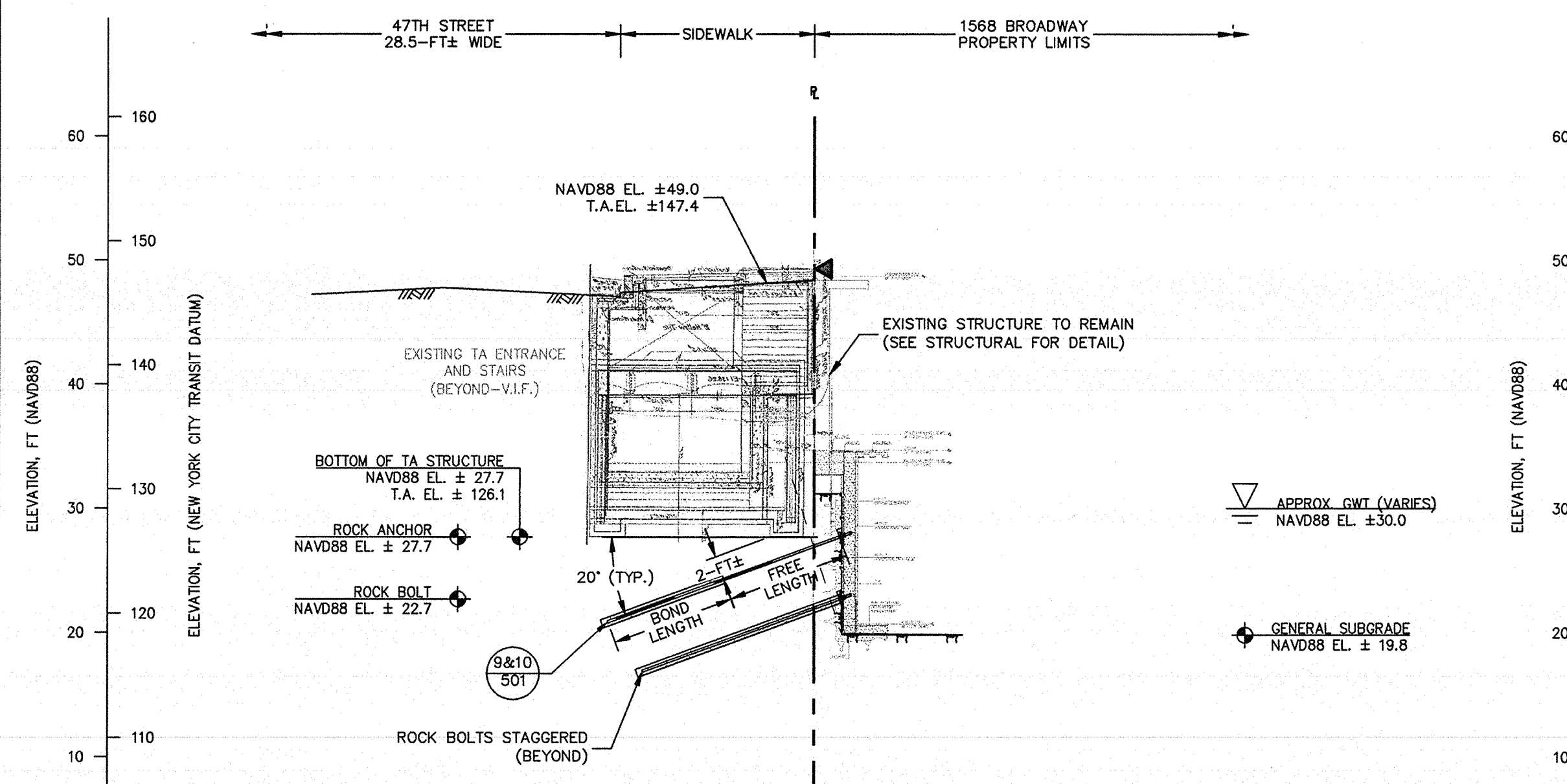
Signature & Seal:
R. Tangolo
Professional Engineer
No. 11717



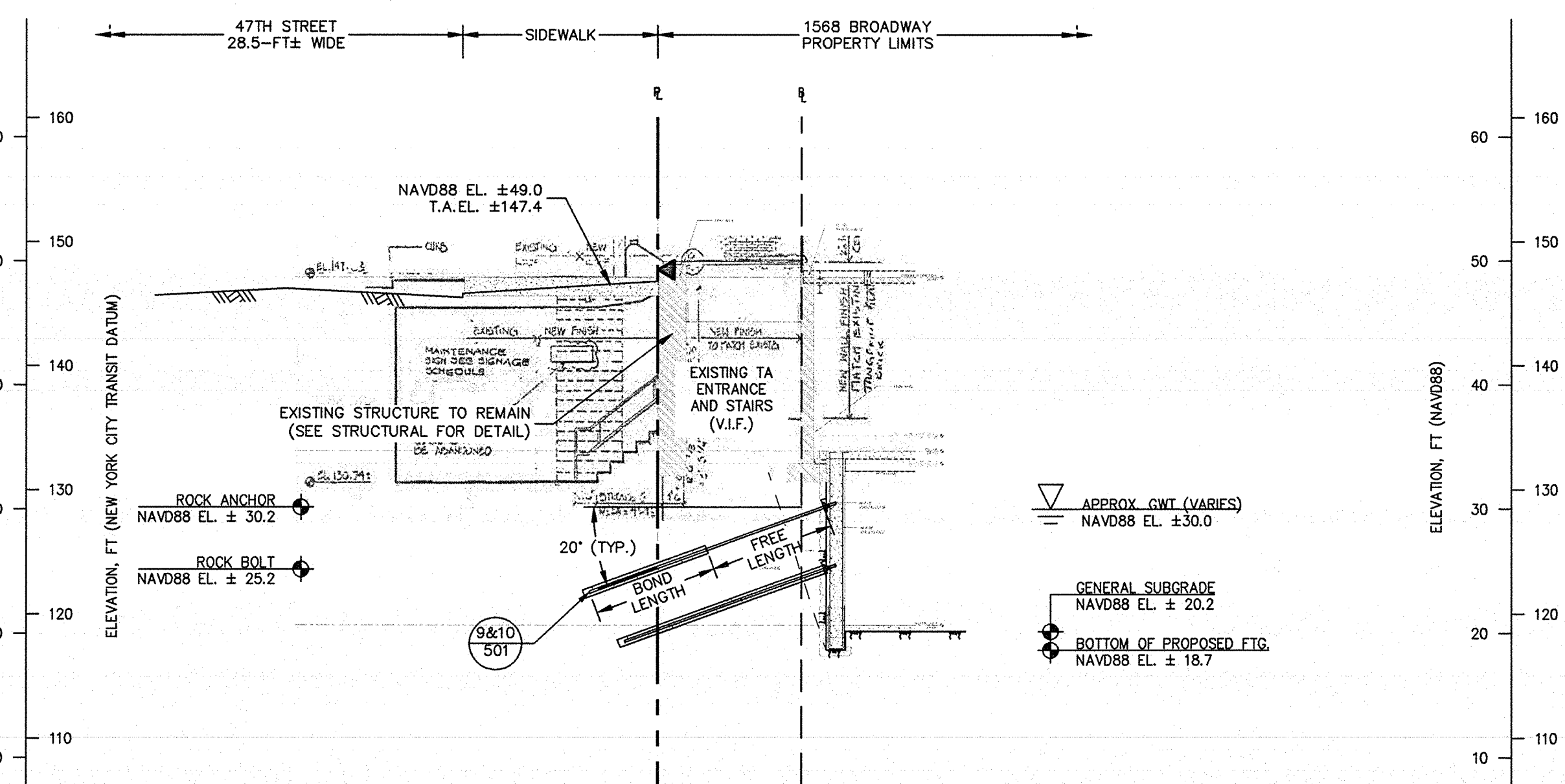
NOTE:
1. SEE SOE-401 & SOE-402 FOR TRANSIT AUTHORITY DETAILED SECTIONS 1 AND 2.
NORTH PART PLAN: NEW BUILDING
SCALE: 1"=10'



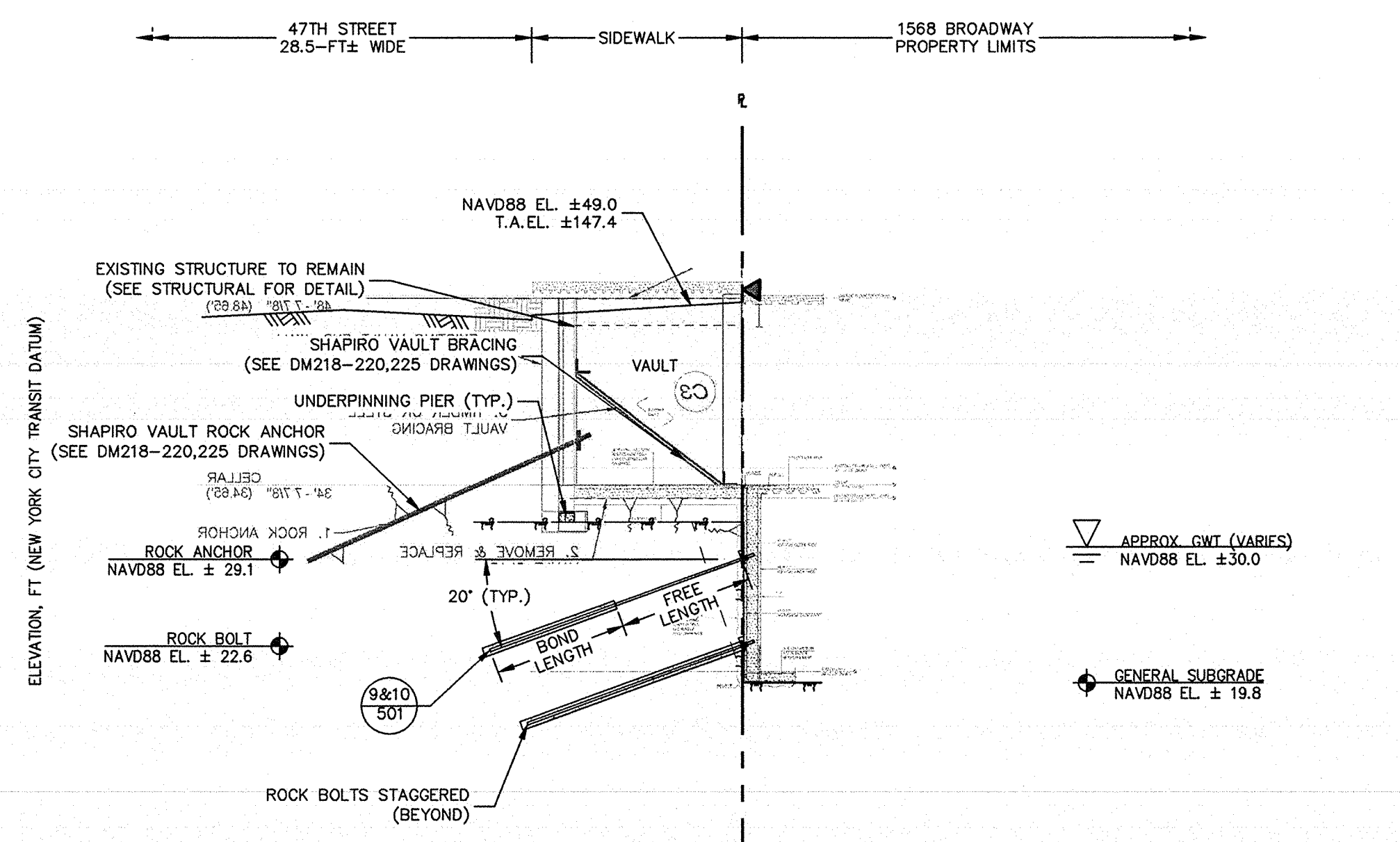
NORTH ELEVATION: NEW BUILDING
SCALE: 1"=10'



SECTION 2: FINAL CONDITION
SCALE: 1"=10'



SECTION 3: FINAL CONDITION
SCALE: 1"=10'



SECTION 4: FINAL CONDITION
SCALE: 1"=10'

- GENERAL NOTES:**
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 - REFER TO DEMOLITION BRACING PLANS BY HOWARD SHAPIRO.

DOB APPROVAL STAMP

Date	No.	Description
04.13.2017	14	IN ACCORDANCE WITH NYCTA COMMENTS
03.13.2017	13	IN ACCORDANCE WITH NYCTA COMMENTS
02.28.2017	12	ISSUED FOR 50% CDs
02.24.2017	11	IN ACCORDANCE WITH NYCTA COMMENTS
11.10.2016	10	NYCTA SUBMISSION
10.28.2016	9	100% DESIGN DEVELOPMENT
09.02.2016	8	100% DESIGN DEVELOPMENT
07.15.2016	7	50% DESIGN DEVELOPMENT
06.24.2016	6	TA FILING
05.18.2016	5	DEVELOPMENT REPORT
04.08.2016	4	100% SCHEMATIC DESIGN
02.17.2016	3	50% SCHEMATIC DESIGN
12.24.2015	2	DEVELOPMENT REPORT
12.11.2015	1	FEASIBILITY STUDY

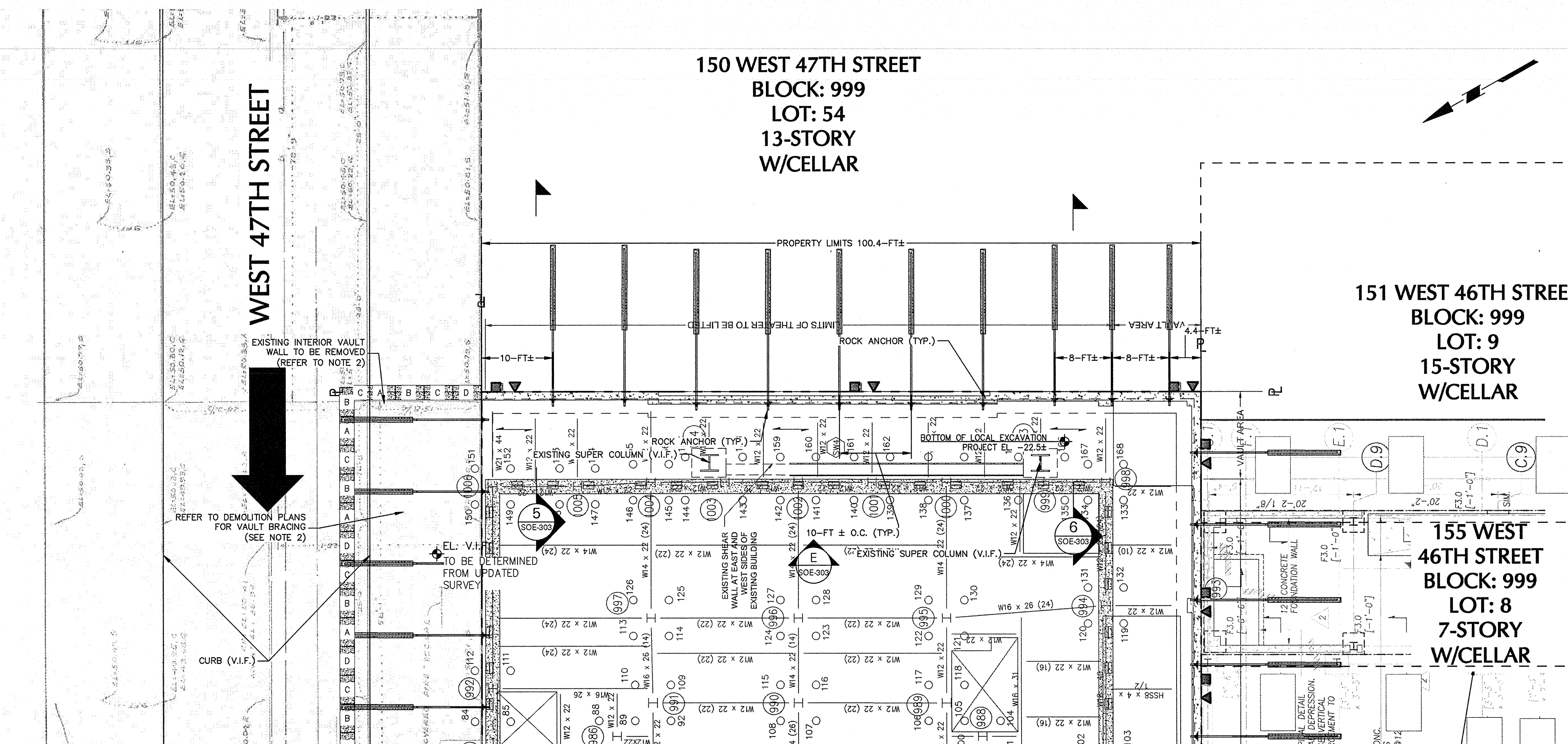
Date: No. Description
Project:
1568 Broadway
New York, NY 10036

Sheet Title:
SUPPORT OF EXCAVATION NORTH (NEW BUILDING)

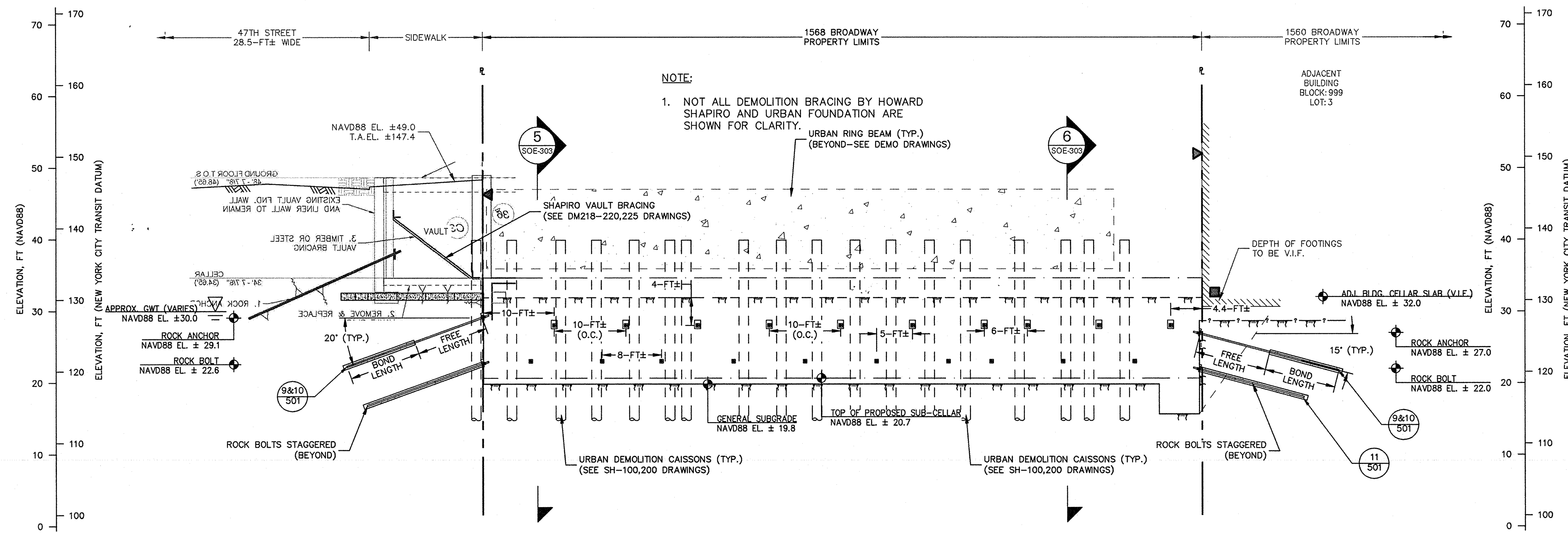
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Checked By: LEF
Scale: AS NOTED
Sheet Number: **SOE-302.00**

Signature: [Signature]
Date: 1/17/17

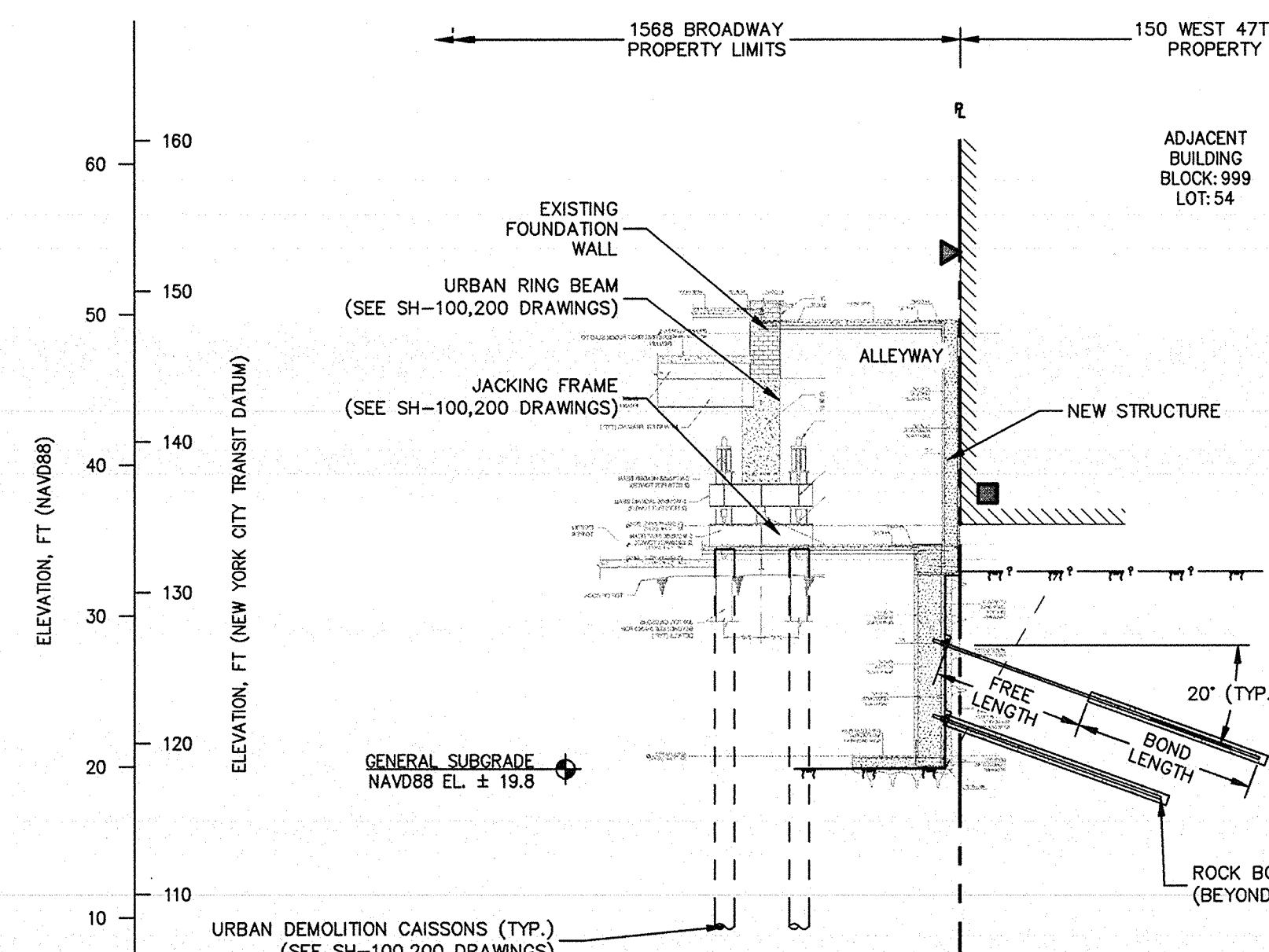
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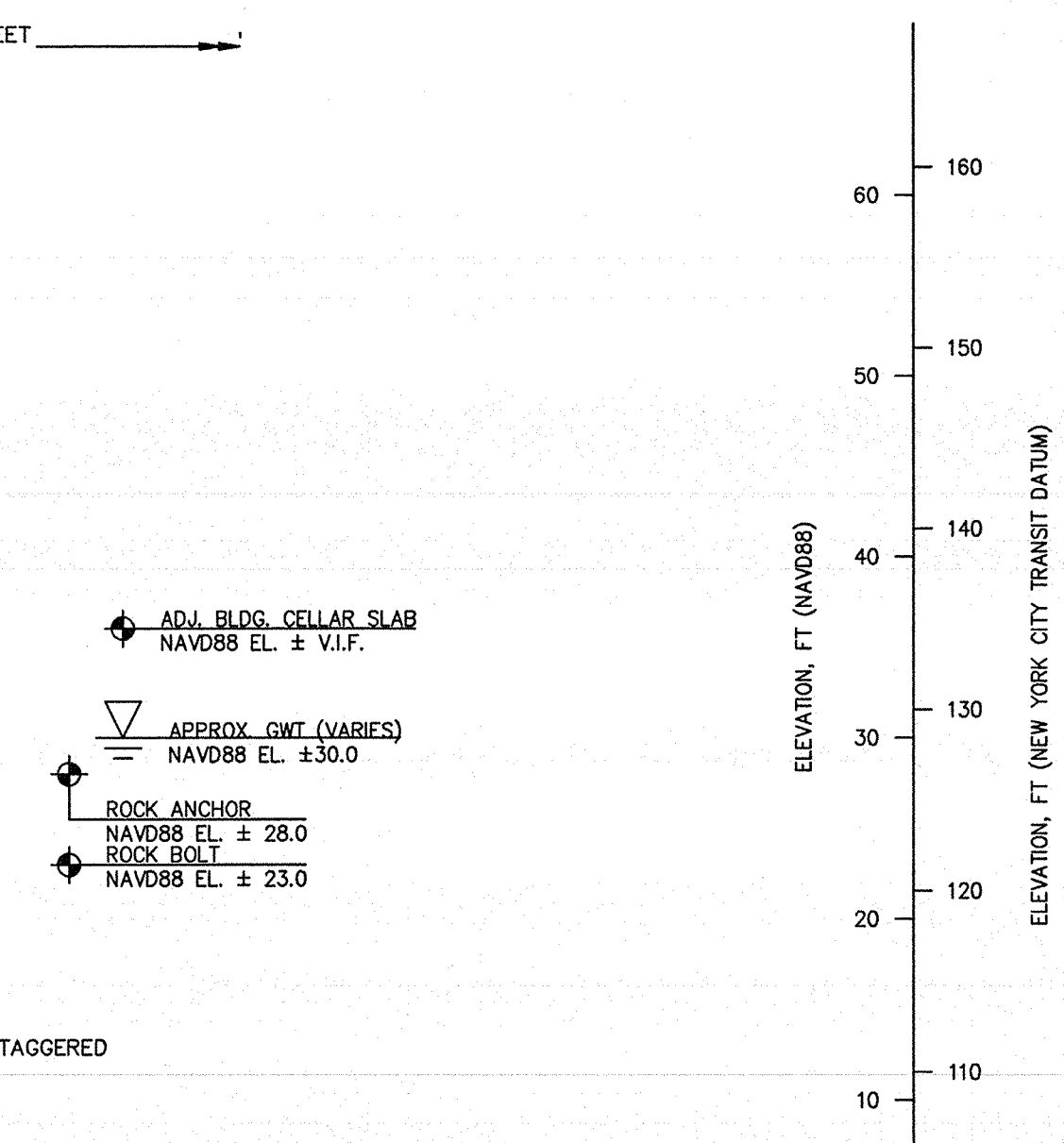
(E) EAST PART PLAN: DEMO/EXCAVATION
SCALE: 1"=10'



(E) EAST ELEVATION: DEMO/EXCAVATION
SCALE: 1"=10'



(5) SECTION 5: DEMO/EXCAVATION
SCALE: 1"=10'

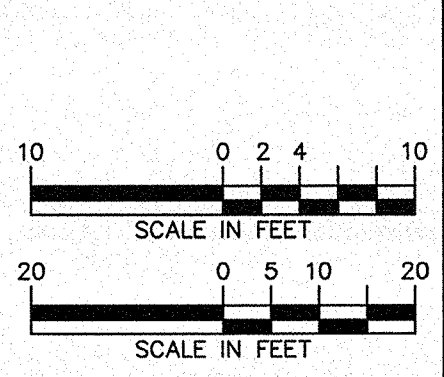
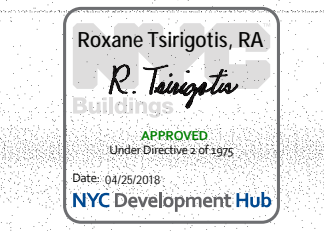
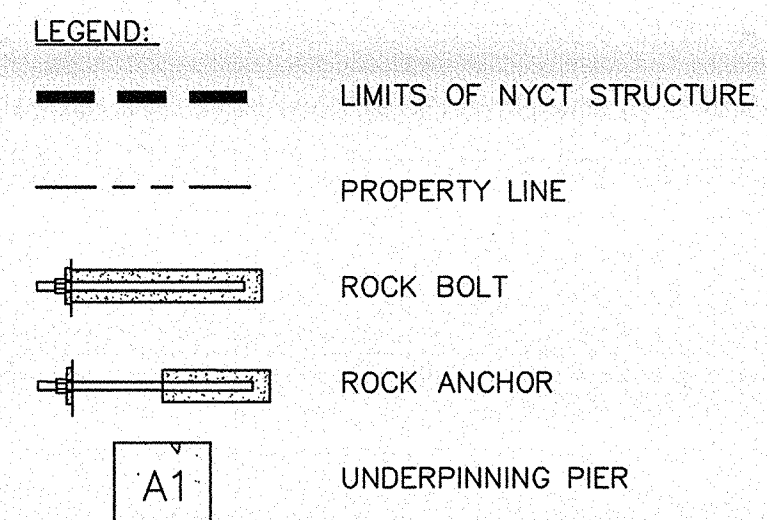


(6) SECTION 6: DEMO/EXCAVATION
SCALE: 1"=10'

- GENERAL NOTES:**
- NEW FOUNDATION PLAN TAKEN FROM SEVERUD ASSOCIATES STRUCTURAL DRAWINGS RECEIVED ON JUNE 23, 2016, 2ND SUB-CELLAR INFORMATION RECEIVED ON JULY 15, 2016.
 - TOPOGRAPHIC SURVEY PROVIDED BY EARL B. LOVELL-S.P. BELCHER, INC DATED DECEMBER 14, 2015. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 - LIMITS OF NEW YORK CITY TRANSIT (NYCT) STRUCTURE ARE REFERENCED TO THE FOLLOWING DRAWINGS:
 - A. "ROOF AND SIDEWALK LEVEL PLAN" DATED 16 DECEMBER 1916.
 - B. "STRUCTURAL PLANS, 47TH STREET STATION ENTRANCES—EAST SIDE SECTION I—I" DATED 6 JULY 1916.
 - C. "STRUCTURAL PLANS, 47TH ST STA 233+10 TO STA 239+45 SECTION B—B" DATED 27 OCTOBER 1918.
 - EXISTING FOUNDATION INFORMATION TAKEN FROM DESIMONE STRUCTURAL DRAWINGS DATED FEBRUARY 02, 1988, LATEST REVISION JANUARY 24, 1999.

- GENERAL NOTES (CONT.):**
- DEPTH AND DIMENSION OF EXISTING FOOTINGS TO BE VERIFIED IN FIELD.
 - ROCK EXCAVATION TO BE PERFORMED MINIMUM 1 FT FROM FACE OF EXISTING FOOTING.
 - PROPOSED FOUNDATION WALL THICKNESS TO BE COORDINATED WITH STRUCTURAL ENGINEER AND STRUCTURAL DRAWINGS.
 - ROCK BOLTS TO BE INSTALLED AS NEEDED.
 - UNDERGROUND UTILITIES NOT SHOWN.

- GENERAL NOTES (CONT.):**
- THE SUBSURFACE PROFILE REPRESENTS A GENERALIZED SOIL AND ROCK CROSS SECTION INTERPRETED FROM WIDELY SPACED BORINGS. SOIL, ROCK AND GROUNDWATER MAY VARY IN TYPE, LOCATION, ELEVATION, AND ENVIRONMENTAL AND ENGINEERING PROPERTIES BETWEEN POINTS OF EXPLORATION. VARIATIONS IN SUBSURFACE CONDITIONS SHOULD BE EXPECTED BETWEEN BORINGS.
 - UPON COMPLETION OF NEW COLUMN INSTALLATION AND TRANSFERENCE OF LOAD, TEMPORARY SUPPORT CAISSON WILL BE REMOVED (REFERENCE URBAN FOUNDATION SUPPORT DRAWINGS FOR DETAIL).
 - REFER TO DEMOLITION BRACING PLANS BY HOWARD SHAPIRO.



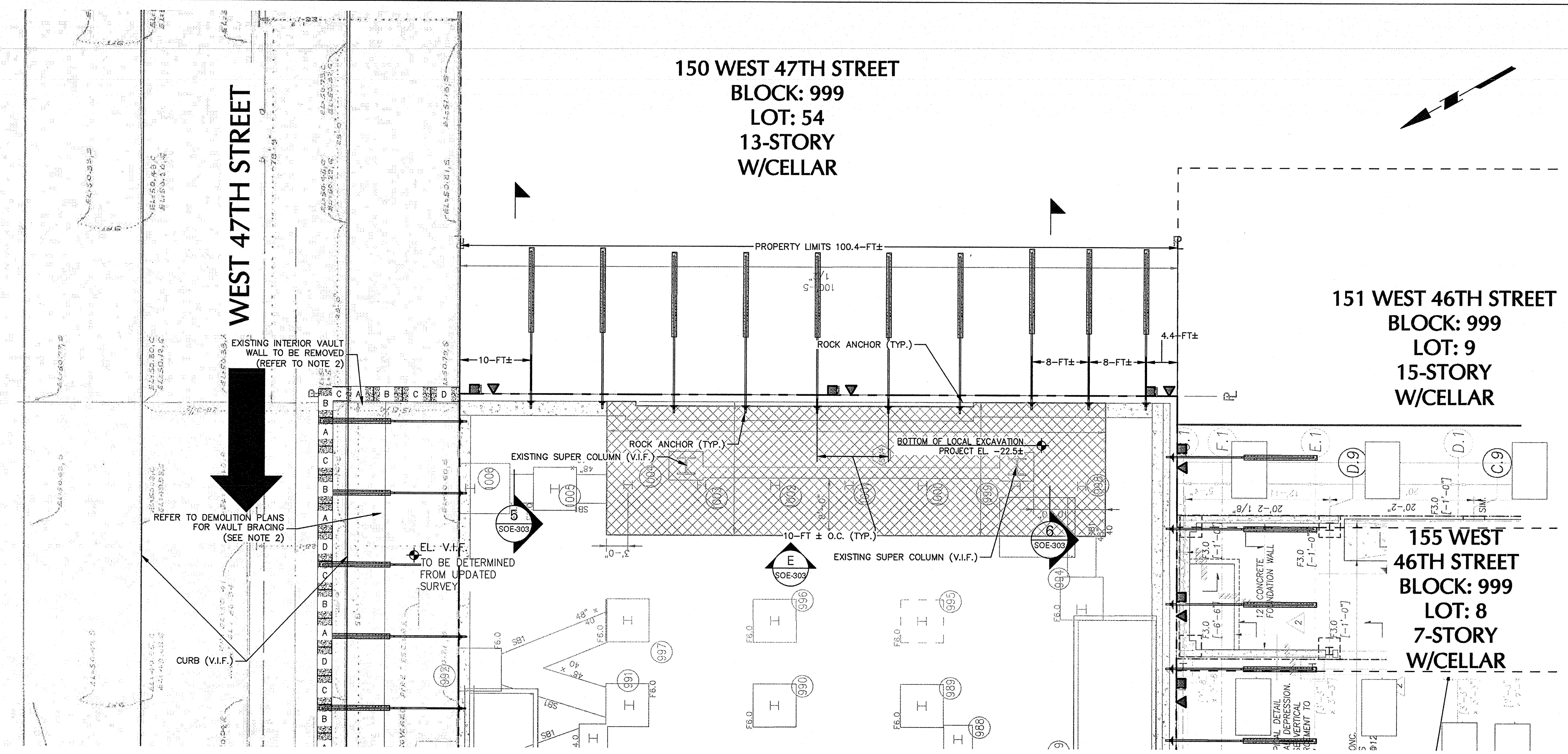
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04.13.2017	14	IN ACCORDANCE WITH NYCTA COMMENTS
03.13.2017	13	IN ACCORDANCE WITH NYCTA COMMENTS
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02.24.2017	11	IN ACCORDANCE WITH NYCTA COMMENTS
11.10.2016	10	NYCTA SUBMISSION
10.28.2016	9	100% DESIGN DEVELOPMENT
09.02.2016	8	100% DESIGN DEVELOPMENT
07.15.2016	7	50% DESIGN DEVELOPMENT
06.24.2016	6	TA FILING
05.18.2016	5	DEVELOPMENT REPORT
04.08.2016	4	100% SCHEMATIC DESIGN
02.17.2016	3	50% SCHEMATIC DESIGN
12.24.2015	2	DEVELOPMENT REPORT
12.11.2015	1	FEASIBILITY STUDY

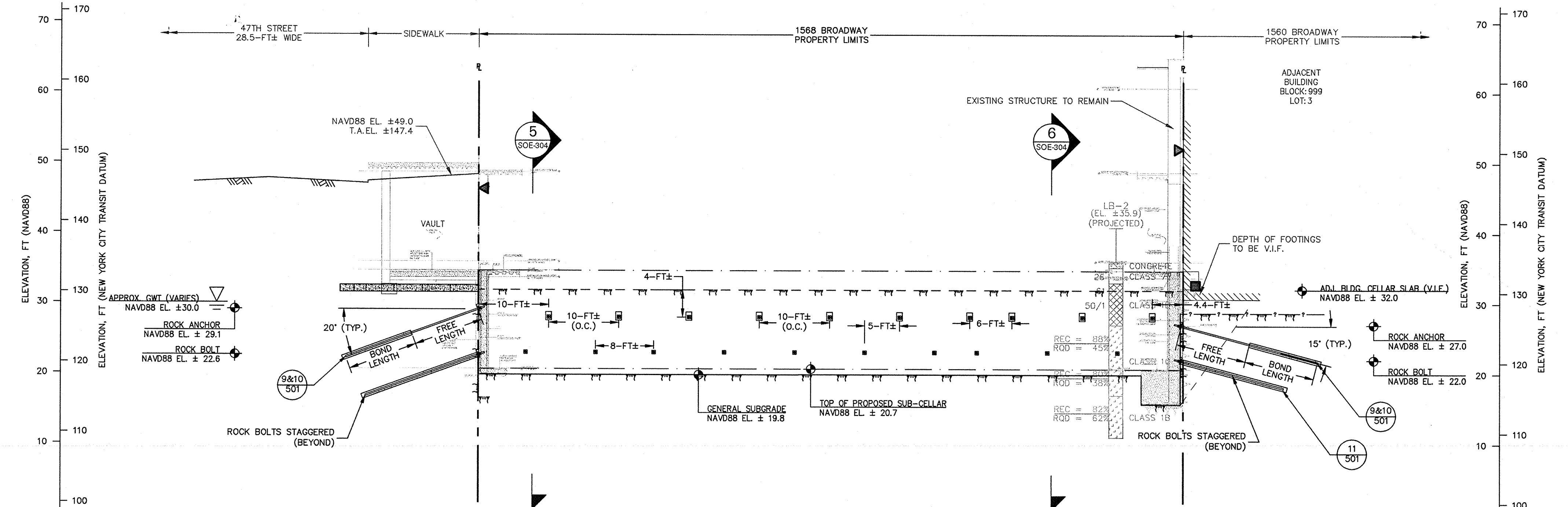
Date: No.: Description:
1568 Broadway
New York, NY 10036

Sheet Title:
SUPPORT OF EXCAVATION EAST (STAGING)

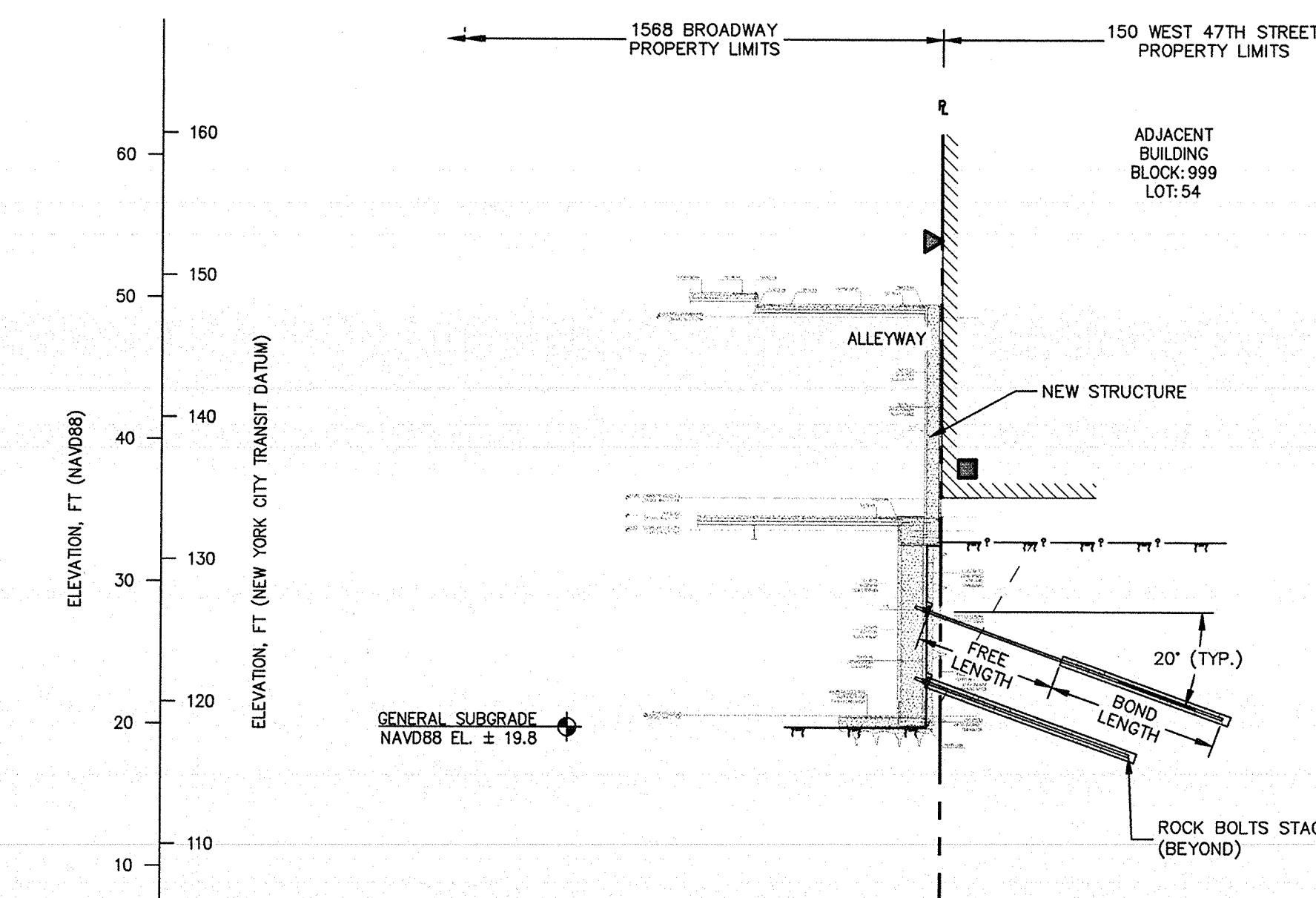
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Drawn By: SCS
Checked By: LEF
Scale: AS NOTED
Sheet Number: **SOE-303.00**
NYC DOB Number: Sheet: 15 of 25



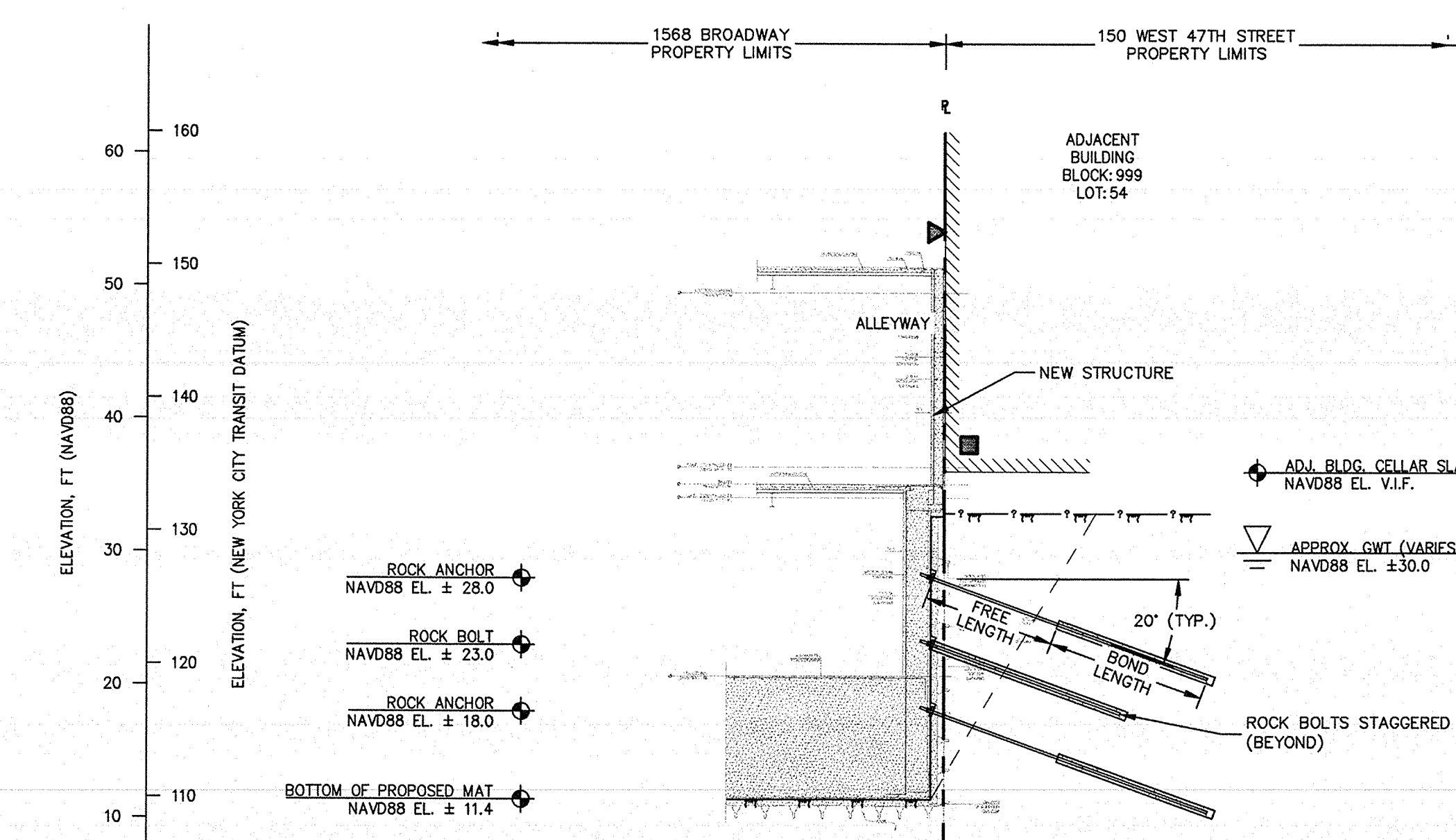
E EAST PART PLAN: NEW BUILDING
SCALE: 1/10



E EAST ELEVATION: NEW BUILDING
SCALE: 1/10



5 SECTION 5: FINAL CONDITION
SCALE: 1/20

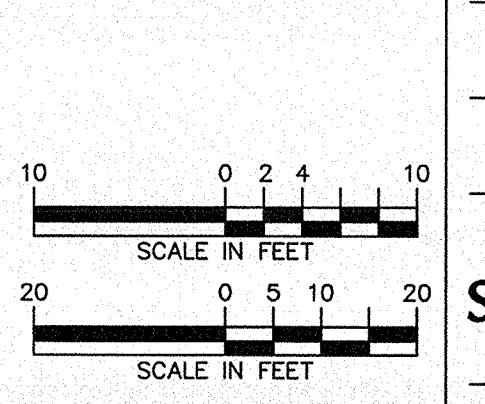
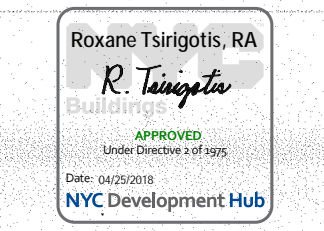
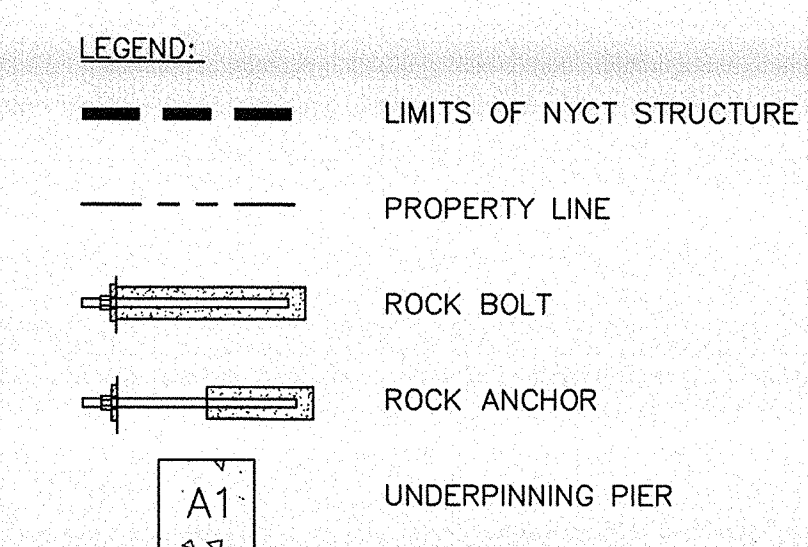


6 SECTION 6: FINAL CONDITION
SCALE: 1/20

- GENERAL NOTES:**
- NEW FOUNDATION PLAN TAKEN FROM SEVERUD ASSOCIATES STRUCTURAL DRAWINGS RECEIVED ON JUNE 23, 2016, 2ND SUB-CELLAR INFORMATION RECEIVED ON JULY 15, 2016.
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 - LIMITS OF NEW YORK CITY TRANSIT (NYCT) STRUCTURE ARE REFERENCED TO THE FOLLOWING DRAWINGS:
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 - C. "STRUCTURAL PLANS, 47TH ST STA 233+10 TO STA 239+45 SECTION B-B" DATED 27 OCTOBER 1918.
 - EXISTING FOUNDATION INFORMATION TAKEN FROM DESIMONE STRUCTURAL DRAWINGS DATED FEBRUARY 02, 1988, LATEST REVISION JANUARY 24, 1989.

- GENERAL NOTES (CONT.):**
- DEPTH AND DIMENSION OF EXISTING FOOTINGS TO BE VERIFIED IN FIELD.
 - ROCK EXCAVATION TO BE PERFORMED MINIMUM 1 FT FROM FACE OF EXISTING FOOTING.
 - PROPOSED FOUNDATION WALL THICKNESS TO BE COORDINATED WITH STRUCTURAL ENGINEER AND STRUCTURAL DRAWINGS.
 - ROCK BOLTS TO BE INSTALLED AS NEEDED.
 - UNDERGROUND UTILITIES NOT SHOWN.

- GENERAL NOTES (CONT.):**
- THE SUBSURFACE PROFILE REPRESENTS A GENERALIZED SOIL AND ROCK CROSS SECTION INTERPRETED FROM WIDELY SPACED BORINGS. SOIL, ROCK AND GROUNDWATER MAY VARY IN TYPE, LOCATION, ELEVATION, AND ENVIRONMENTAL AND ENGINEERING PROPERTIES BETWEEN POINTS OF EXPLORATION. VARIATIONS IN SUBSURFACE CONDITIONS SHOULD BE EXPECTED BETWEEN BORINGS.
 - UPON COMPLETION OF NEW COLUMN INSTALLATION AND TRANSFERENCE OF LOAD, TEMPORARY SUPPORT CAISSON WILL BE REMOVED (REFERENCE URBAN FOUNDATION SUPPORT DRAWINGS FOR DETAIL).
 - REFER TO DEMOLITION BRACING PLANS BY HOWARD SHAPIRO.



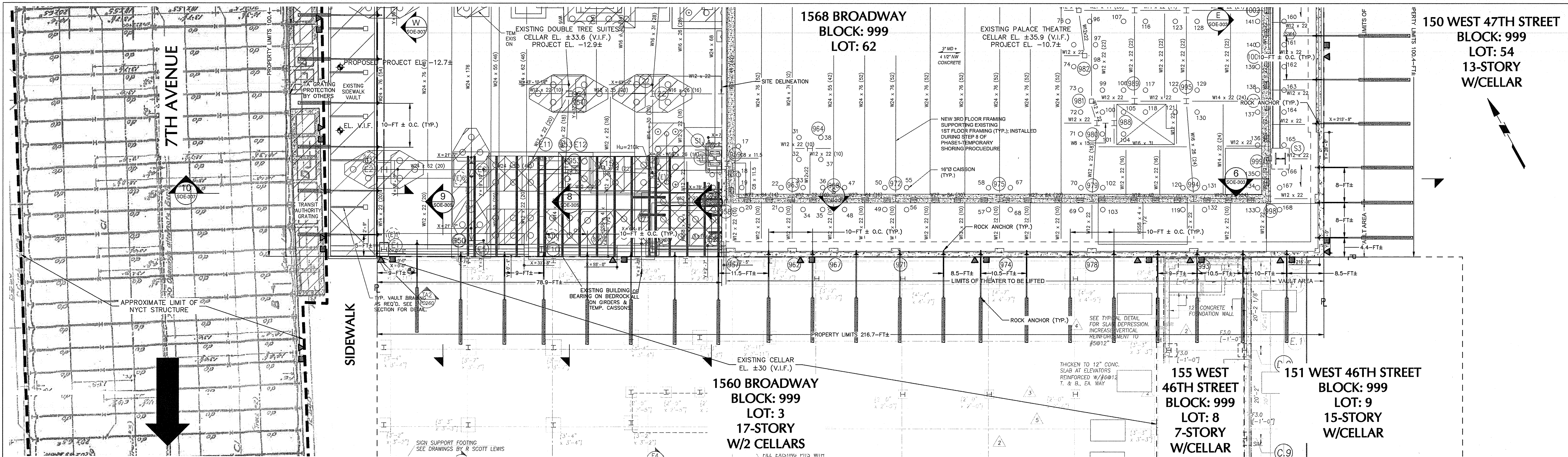
DOB APPROVAL STAMP

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03.13.2017	13	IN ACCORDANCE WITH NYCTA COMMENTS
02.28.2017	12	ISSUED FOR 80% CDS
02.24.2017	11	IN ACCORDANCE WITH NYCTA COMMENTS
11.10.2016	10	NYCTA SUBMISSION
10.28.2016	9	100% DESIGN DEVELOPMENT
09.02.2016	8	100% DESIGN DEVELOPMENT
07.15.2016	7	50% DESIGN DEVELOPMENT
06.24.2016	6	TRAILING
06.18.2016	5	DEVELOPMENT REPORT
04.08.2016	4	100% SCHEMATIC DESIGN
02.17.2016	3	50% SCHEMATIC DESIGN
12.24.2015	2	DEVELOPMENT REPORT
12.11.2015	1	FEASIBILITY STUDY

Project:
1568 Broadway
New York, NY 10036

Sheet Title:
SUPPORT OF EXCAVATION EAST (NEW BUILDING)

Project Number: 13649	Signature & Seal:
Drawn By: SCS	
Checked By: LEF	
Scale: AS NOTED	
Sheet Number: SOE-304.00	
NYC DOB Number:	Sheet: 16 of 25



Platt Byard Dorell White Architects LLP
49 West 37th Street, New York, NY 10018
212.691.2440 | pbw.com

Severud Associates | Structural Engineer
469 Seventh Avenue, 9th Floor
New York, NY 10018
212.966.3700 | severud.com

Cosentini Associates | Mechanical Engineer
Two Pennsylvania Plaza, 3rd Floor
New York, NY 10121
212.615.3600 | cosentini.com

ANI Architects, P.C. | Interior Architect
14 West Street, 2nd Floor
New York City, New York 10005
212.964.4040 | adamson-associates.com

Design 2147 Limited | Code Consultant
52 Diamond Street, Brooklyn, NY 11222
718.383.9340 | design2147.com

Iros Elevator, LLC | Elevator Consultant
884 Paterson Ave., East Rutherford, NJ 07073
973.776.4404 | iroselevator.com

Theater Projects Consultants | Theater Consultant
47 Water Street
South Norwalk, Connecticut 06854
203.299.0830 | theaterprojects.com

Fisher Marantz Stone | Lighting Design
22 West 19th Street, Floor 6
New York, NY 10011
212.691.3020 | fmsp.com

Jaffe Holden | Acoustic Consultant
114-A Washington Street
Norwalk, CT 06854
203.838.4167 | jaffeholden.com

Yabu Pushelberg | Interior Design
55 BLOOR STREET EAST, 2ND FLOOR
TORONTO, ON M4M 2M3
212.226.0808 | yabupushelberg.com

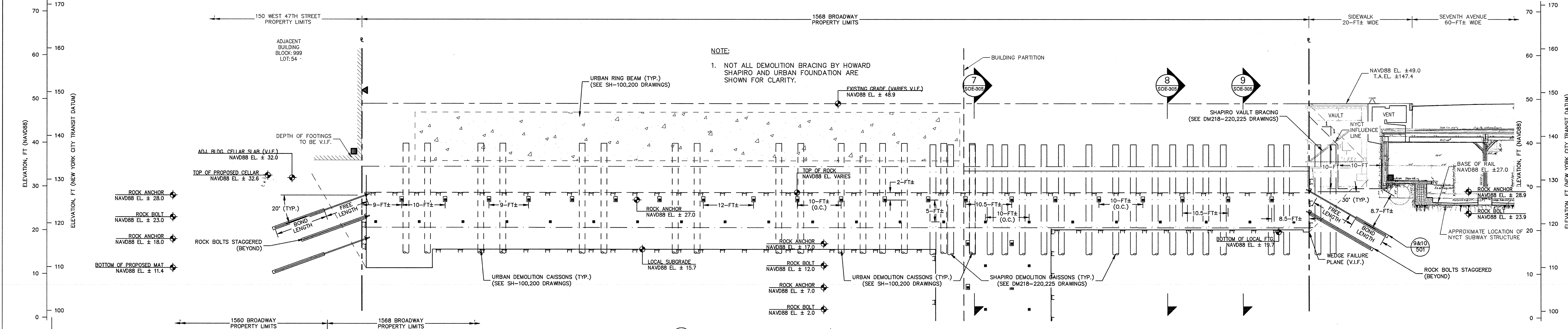
Langan Engineering | Geotechnical Engineer
21 Penn Plaza
360 West 31st Street, 8th Floor, New York, NY 10001
212.479.5400 | langan.com

Jablonski Building Conservation | Conservation Consultant
40 West 27th Street, 12th Floor
New York, NY 10001
212.532.7775 | jbcconservation.com

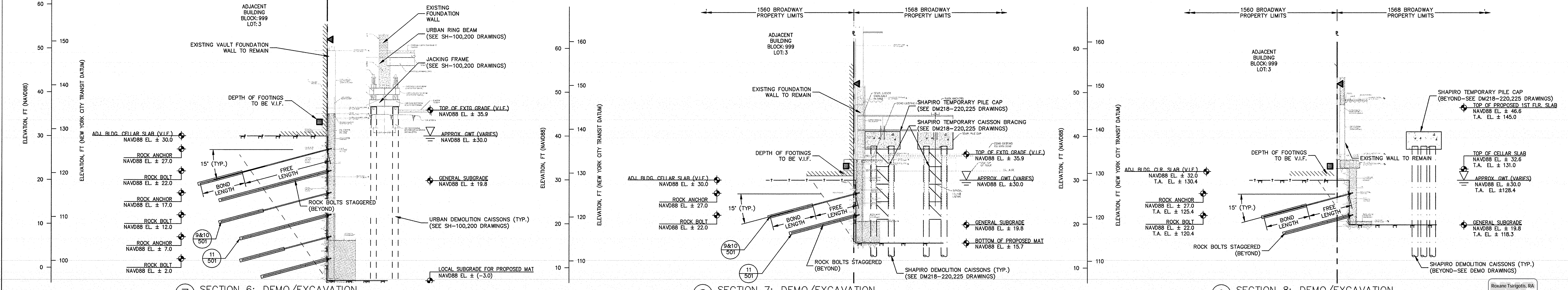
Urban Foundation Engineering | Foundation Engineer
3233 111th Street
Flushing, NY 11369
718.478.3021

zeroLUX | Lighting Design
242 West 30th Street, Level 2
New York, NY 10001
212.209.1536

SOUTH PART PLAN: DEMO/EXCAVATION
SCALE: 1"=10'



SOUTH ELEVATION: DEMO/EXCAVATION
SCALE: 1"=10'



SECTION 6: DEMO/EXCAVATION
SCALE: 1"=10'

SECTION 7: DEMO/EXCAVATION
SCALE: 1"=10'

SECTION 8: DEMO/EXCAVATION
SCALE: 1"=10'

GENERAL NOTES:

- NEW FOUNDATION PLAN TAKEN FROM SEVERUD ASSOCIATES STRUCTURAL DRAWINGS RECEIVED ON JUNE 23, 2016, 2ND SUB-CELLAR INFORMATION RECEIVED ON JULY 15, 2016.
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 - "STRUCTURAL PLANS, 47TH ST STA 233+10 TO STA 239+45 SECTION B-B" DATED 27 OCTOBER 1918.
- EXISTING FOUNDATION INFORMATION TAKEN FROM DESIMONE STRUCTURAL DRAWINGS DATED FEBRUARY 02, 1988, LATEST REVISION JANUARY 24, 1989.

GENERAL NOTES (CONT.):

- DEPTH AND DIMENSION OF EXISTING FOOTINGS TO BE VERIFIED IN FIELD.
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- ROCK BOLTS TO BE INSTALLED AS NEEDED.
- UNDERGROUND UTILITIES NOT SHOWN.

GENERAL NOTES (CONT.):

- THE SUBSURFACE PROFILE REPRESENTS A GENERALIZED SOIL AND ROCK CROSS SECTION INTERPRETED FROM WIDELY SPACED BORINGS. SOIL, ROCK AND GROUNDWATER MAY VARY IN TYPE, LOCATION, ELEVATION, AND ENVIRONMENTAL AND ENGINEERING PROPERTIES BETWEEN POINTS OF EXPLORATION. VARIATIONS IN SUBSURFACE CONDITIONS SHOULD BE EXPECTED BETWEEN BORINGS.
- UPON COMPLETION OF NEW COLUMN INSTALLATION AND TRANSFERENCE OF LOAD, TEMPORARY SUPPORT CAISSON WILL BE REMOVED (REFERENCE URBAN FOUNDATION SUPPORT DRAWINGS FOR DETAIL).
- REFER TO DEMOLITION BRACING PLANS BY HOWARD SHAPIRO.

LEGEND:

- LIMITS OF NYCT STRUCTURE
- - - PROPERTY LINE
- ROCK BOLT
- ROCK ANCHOR
- UNDERPINNING PIER

SCALE:

0 2 4 10
SCALE IN FEET

0 5 10 20
SCALE IN FEET

DOB APPROVAL STAMP

Date	No.	Description
04.13.2017	14	IN ACCORDANCE WITH NYCTA COMMENTS
03.13.2017	15	IN ACCORDANCE WITH NYCTA COMMENTS
02.28.2017	12	ISSUED FOR 50% CD
02.24.2017	11	IN ACCORDANCE WITH NYCTA COMMENTS
11.10.2016	10	NYCTA SUBMISSION
10.28.2016	9	100% DESIGN DEVELOPMENT
09.02.2016	8	100% DESIGN DEVELOPMENT
07.15.2016	7	50% DESIGN DEVELOPMENT
06.24.2016	6	TA FILING
05.18.2016	5	DEVELOPMENT REPORT
04.08.2016	4	100% SCHEMATIC DESIGN
02.17.2016	3	50% SCHEMATIC DESIGN
12.24.2015	2	DEVELOPMENT REPORT
12.11.2015	1	FEASIBILITY STUDY

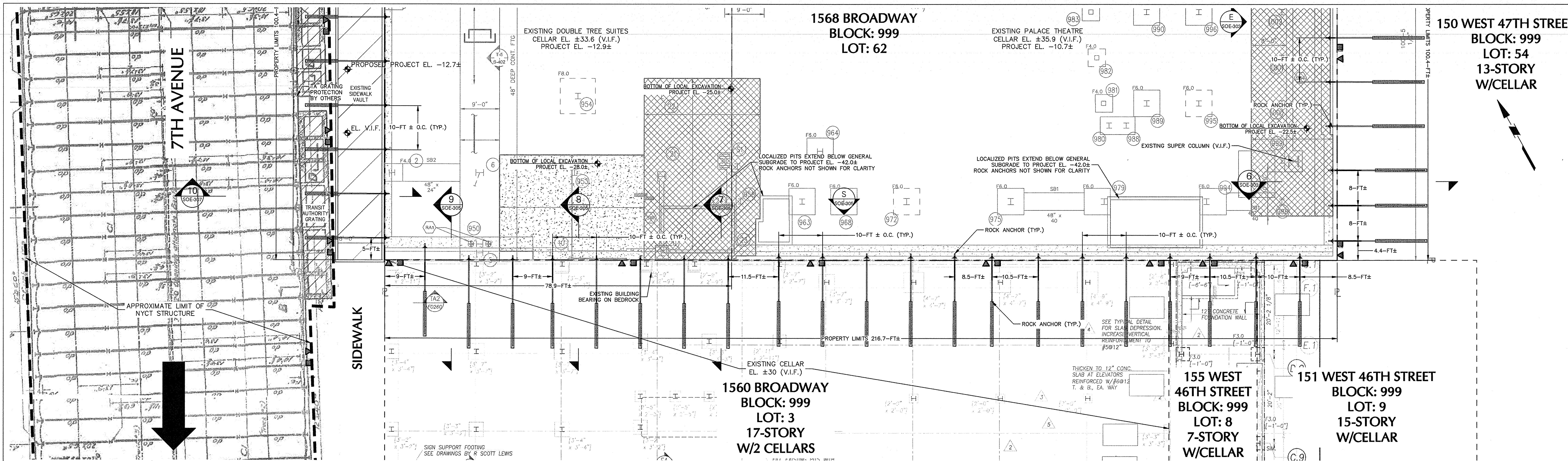
Date: No.: Description:
Project:
1568 Broadway
New York, NY 10036

Sheet Title:
SUPPORT OF EXCAVATION SOUTH (STAGING)

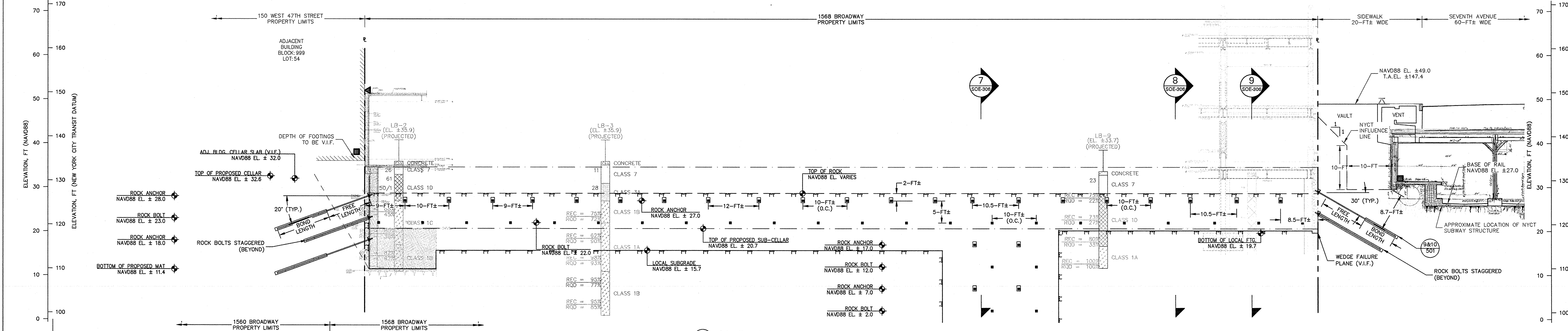
Project Number: 13649
Drawn By: SCS
Checked By: LEF
Scale: AS NOTED
Sheet Number: **SOE-305.00**

Signature & Seal:
[Signature]
Professional Engineer
No. 13649
State of New York

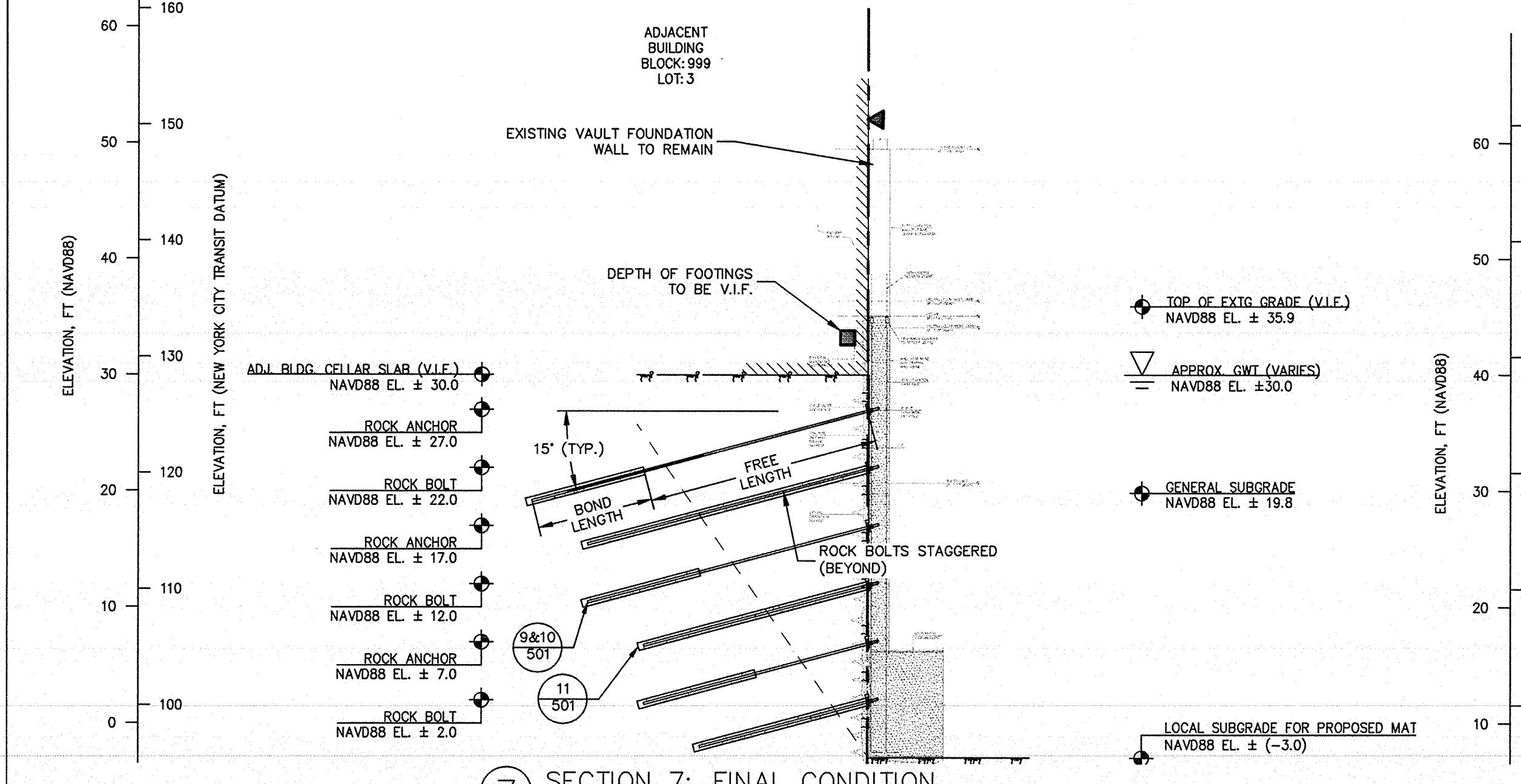
NYC DOB Number: Sheet: 17 of 25



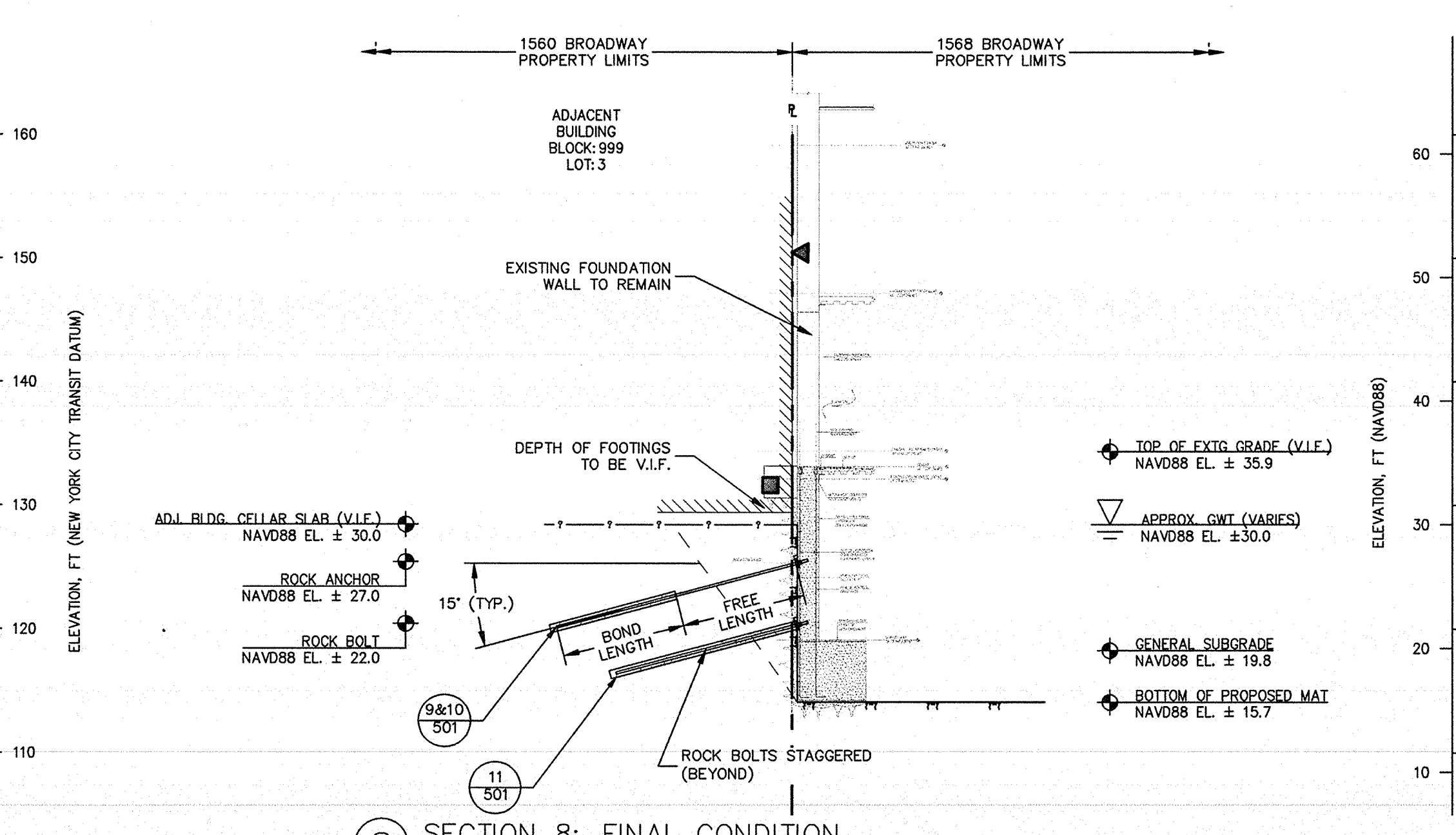
SOUTH PART PLAN: NEW BUILDING
SCALE: 1"=10'



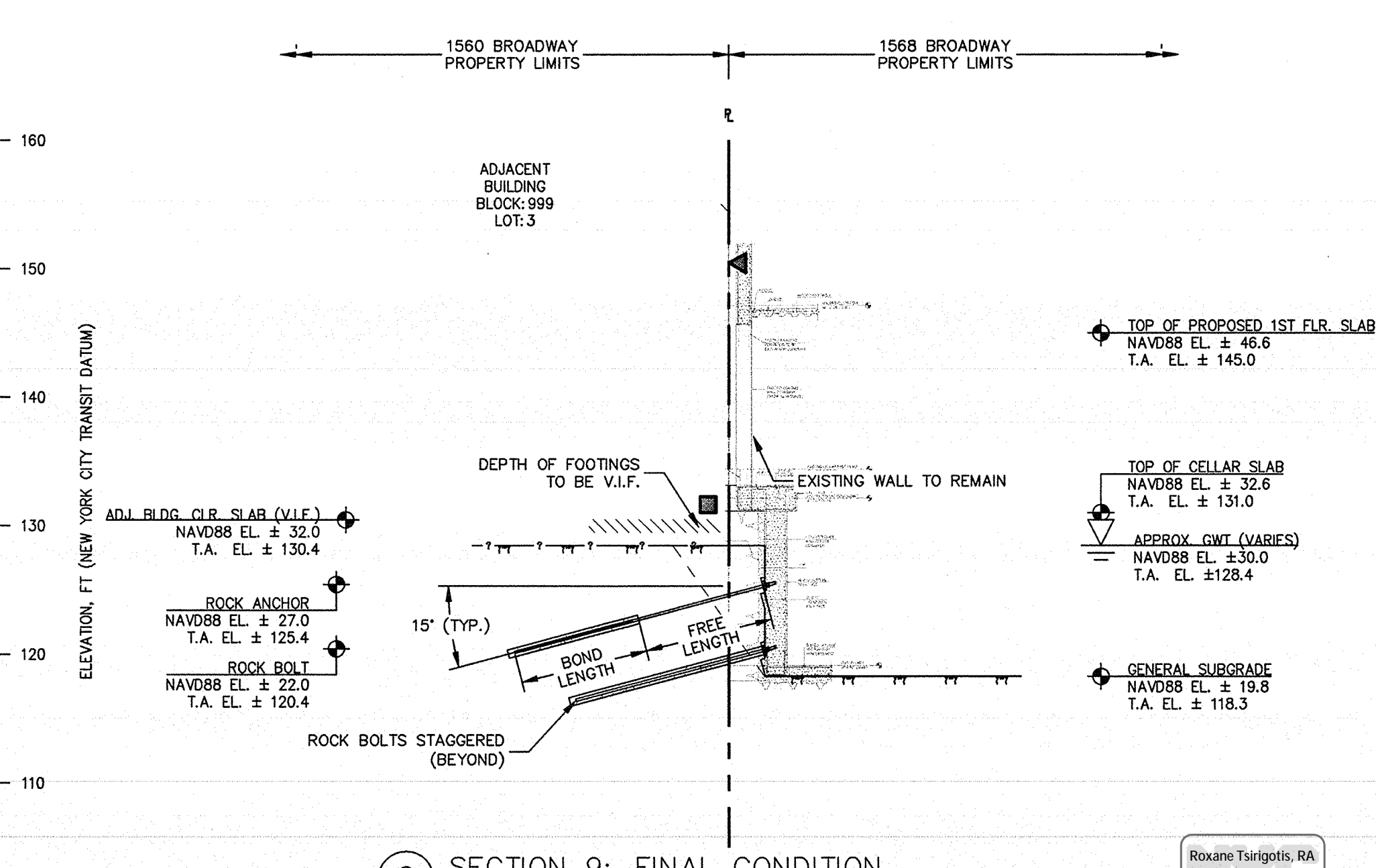
SOUTH ELEVATION: NEW BUILDING
SCALE: 1"=10'



SECTION 7: FINAL CONDITION
SCALE: 1"=10'



SECTION 8: FINAL CONDITION
SCALE: 1"=10'



SECTION 9: FINAL CONDITION
SCALE: 1"=10'

GENERAL NOTES:

- NEW FOUNDATION PLAN TAKEN FROM SEVERUD ASSOCIATES STRUCTURAL DRAWINGS RECEIVED ON JUNE 23, 2016, 2ND SUB-CELLAR INFORMATION RECEIVED ON JULY 15, 2016.
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 - C. "STRUCTURAL PLANS, 47TH ST STA 233+10 TO STA 239+45 SECTION B-B" DATED 27 OCTOBER 1918.
- EXISTING FOUNDATION INFORMATION TAKEN FROM DESIMONE STRUCTURAL DRAWINGS DATED FEBRUARY 02, 1988, LATEST REVISION JANUARY 24, 1989.

GENERAL NOTES (CONT.):

- DEPTH AND DIMENSION OF EXISTING FOOTINGS TO BE VERIFIED IN FIELD.
- ROCK EXCAVATION TO BE PERFORMED MINIMUM .1 FT FROM FACE OF EXISTING FOOTING.
- PROPOSED FOUNDATION WALL THICKNESS TO BE COORDINATED WITH STRUCTURAL ENGINEER AND STRUCTURAL DRAWINGS.
- ROCK BOLTS TO BE INSTALLED AS NEEDED.
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- REFER TO DEMOLITION BRACING PLANS BY HOWARD SHAPIRO.

LEGEND:

- LIMITS OF NYCT STRUCTURE
- PROPERTY LINE
- ROCK BOLT
- ROCK ANCHOR
- UNDERPINNING PIER

SCALE: 1"=10'

PBDW ARCHITECTS
Platt Byard Dovel White Architects LLP
49 West 37th Street, New York, NY 10018
212.691.2440 | pbdw.com

Severud Associates | Structural Engineer
469 Seventh Avenue, 9th Floor
New York, NY 10018
212.966.3700 | severud.com

Cosentini Associates | Mechanical Engineer
Two Pennsylvania Plaza, 3rd Floor
New York, NY 10121
212.615.3600 | cosentini.com

AAI Architects, P.C. | Interior Architect
14 Wall Street, 2nd Floor
New York City, New York 10005
212.964.4040 | adamson-associates.com

Design 2147 Limited | Code Consultant
52 Diamond Street, Brooklyn, NY 11222
718.383.9340 | design2147.com

Iros Elevator, LLC | Elevator Consultant
864 Paterson Ave., East Rutherford, NJ 07073
973.776.4404 | iroselector.com

Theater Projects Consultants | Theater Consultant
47 Water Street
South Norwalk, Connecticut 06854
203.299.0830 | theaterprojects.com

Fisher Marantz Stone | Lighting Design
22 West 59th Street, Floor 6
New York, NY 10011
212.691.3020 | fmsps.com

Jaffe Holden | Acoustic Consultant
114-A Washington Street
Norwalk, CT 06854
203.838.4167 | jaffeholden.com

Yabu Pushelberg | Interior Design
55 SOUTH AVENUE
TORONTO, ON M4M 2M3
212.226.0808 | yabupushelberg.com

Langan Engineering | Geotechnical Engineer
21 Penn Plaza
360 West 31st Street, 8th Floor, New York, NY 10001
212.479.5400 | langan.com

Jablonski Building Conservation | Conservation Consultant
40 West 27th Street, 12th Floor
New York, NY 10001
212.532.7775 | jbcconservation.com

Urban Foundation Engineering | Foundation Engineer
3233 111th Street
Flushing, NY 11369
718.478.3021

zeroLUX | Lighting Design
242 West 30th Street, Level 2
New York, NY 10001
212.209.1536

DOB APPROVAL STAMP		
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05.13.2017	13	IN ACCORDANCE WITH NYCTA COMMENTS
02.28.2017	12	ISSUED FOR 50% CDs
02.24.2017	11	IN ACCORDANCE WITH NYCTA COMMENTS
11.10.2016	10	NYCTA SUBMISSION
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05.18.2016	5	DEVELOPMENT REPORT
04.08.2016	4	100% SCHEMATIC DESIGN
02.17.2016	3	50% SCHEMATIC DESIGN
12.24.2015	2	DEVELOPMENT REPORT
12.11.2015	1	FEASIBILITY STUDY
Date:	No.:	Description:

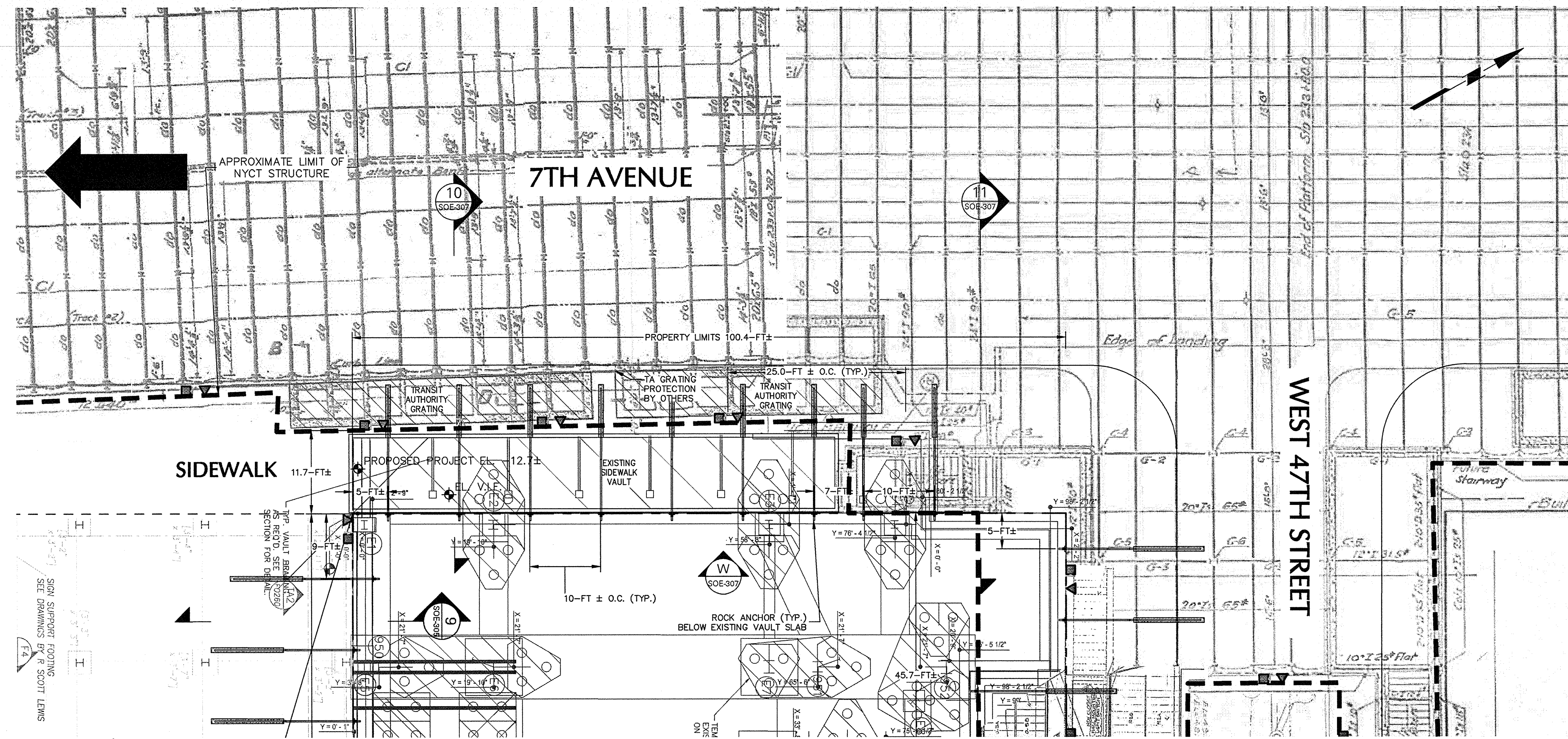
Project: 1568 Broadway
New York, NY 10036

Sheet Title: **SUPPORT OF EXCAVATION SOUTH (NEW BUILDING)**

Project Number: 13649
Drawn By: SCS
Checked By: LEF
Scale: AS NOTED
Sheet Number: **SOE-306.00**

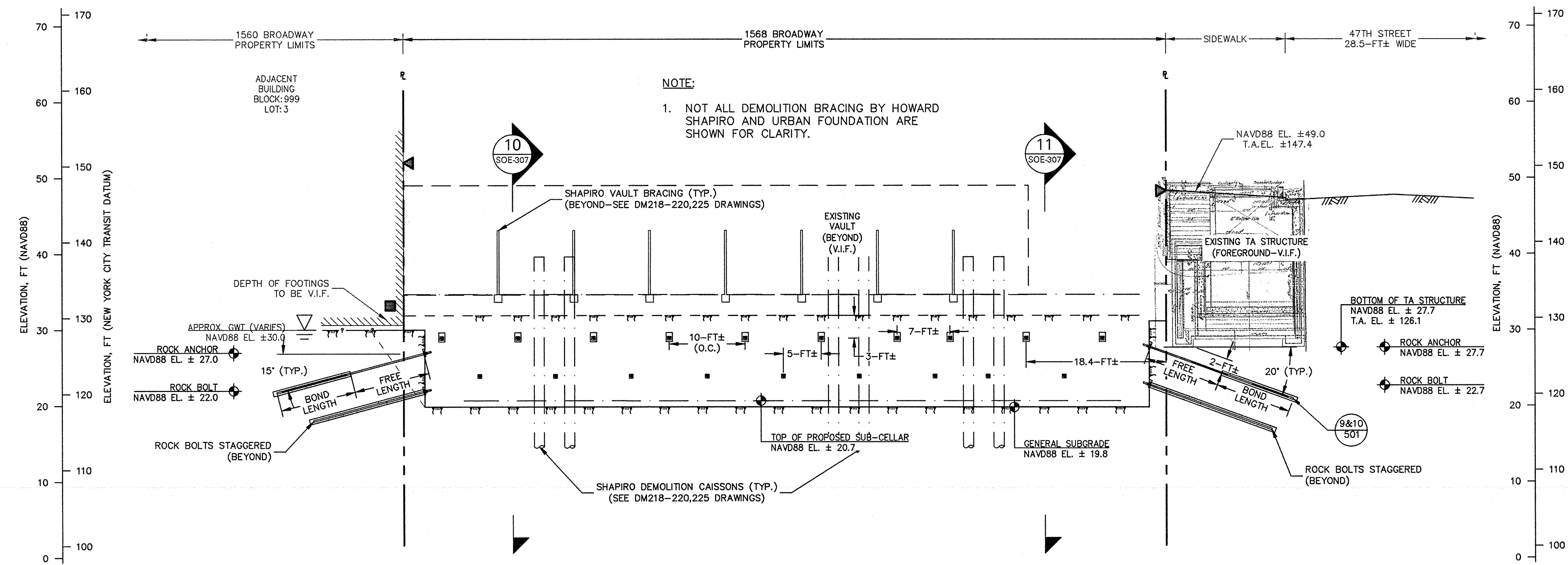
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NYC DOB Number: [Blank]
Sheet: 18 of 25

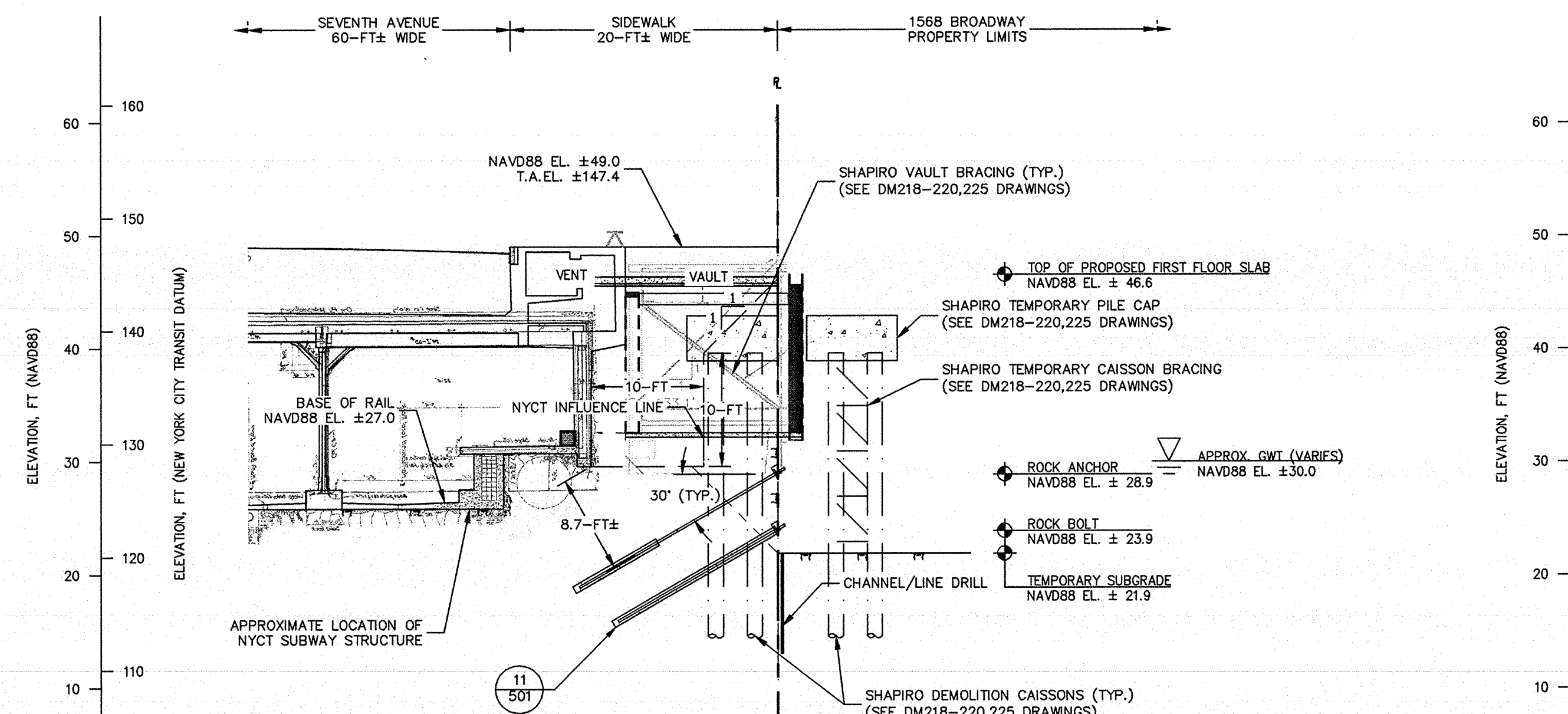


WEST PART PLAN: DEMO/EXCAVATION
SCALE: 1"=10'

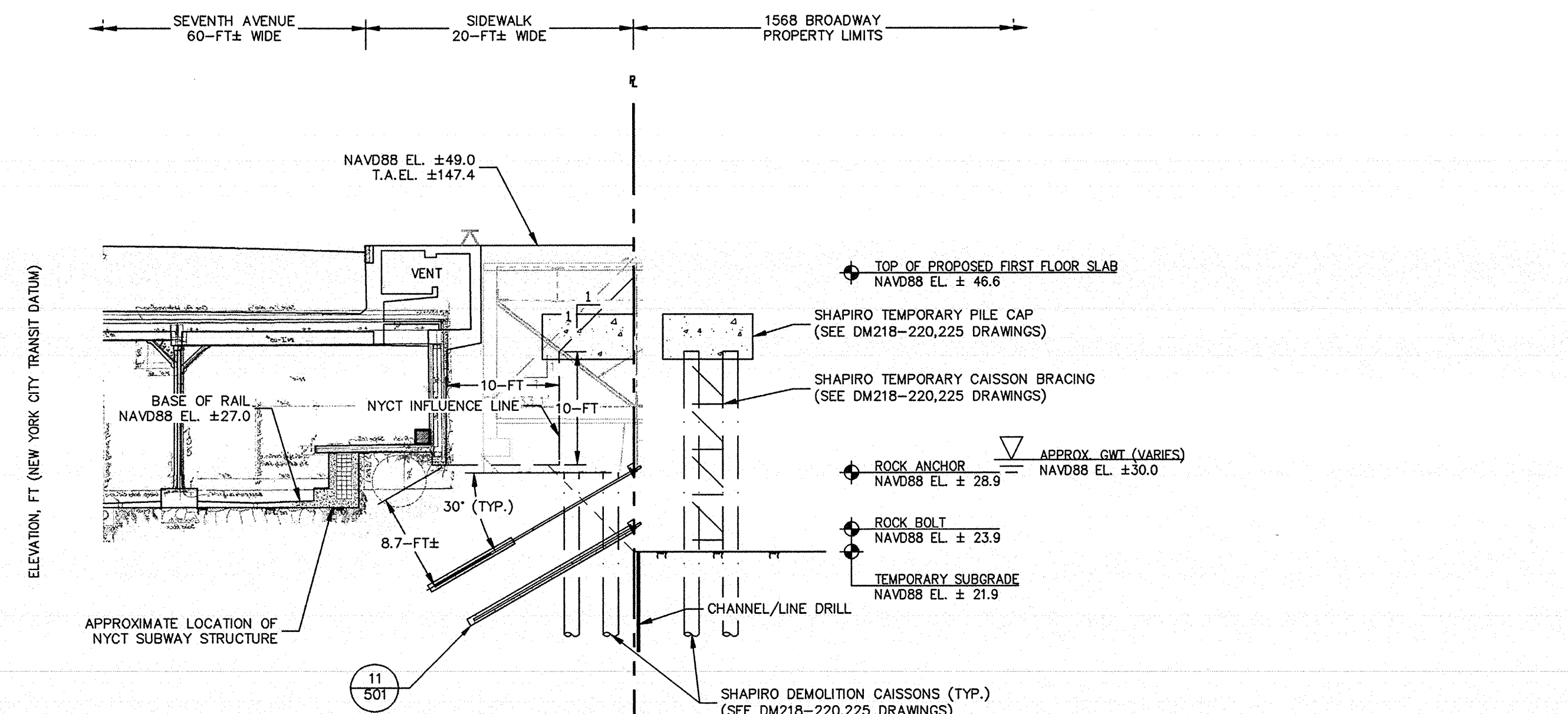
NOTE:
1. SEE SOE-403 & SOE-404 FOR TRANSIT AUTHORITY DETAILED SECTIONS 9 AND 10



WEST ELEVATION: DEMO/EXCAVATION
SCALE: 1"=10'



SECTION 10: DEMO/EXCAVATION
SCALE: 1"=10'



SECTION 11: DEMO/EXCAVATION
SCALE: 1"=10'

GENERAL NOTES:

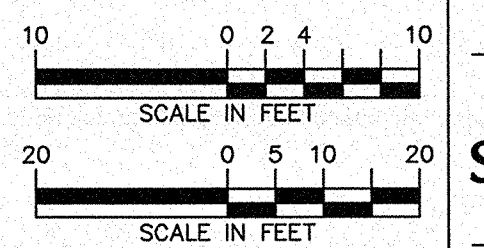
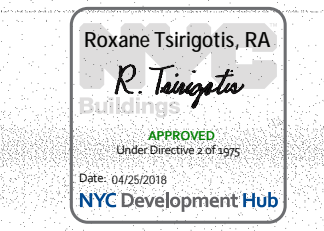
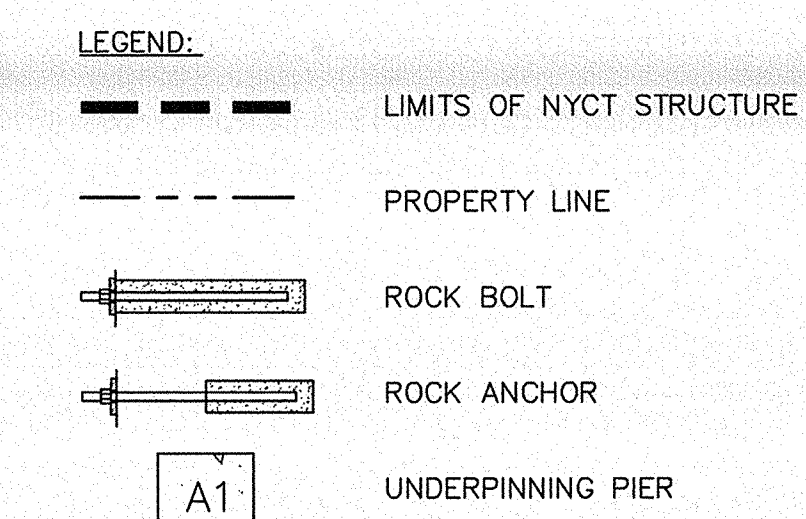
- NEW FOUNDATION PLAN TAKEN FROM SEVERUD ASSOCIATES STRUCTURAL DRAWINGS RECEIVED ON JUNE 23, 2016, 2ND SUB-CELLAR INFORMATION RECEIVED ON JULY 15, 2016.
- TOPOGRAPHIC SURVEY PROVIDED BY EARL B. LOVELL-S.P. BELCHER, INC DATED DECEMBER 14, 2015. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
- LIMITS OF NEW YORK CITY TRANSIT (NYCT) STRUCTURE ARE REFERENCED TO THE FOLLOWING DRAWINGS:
A. "ROOF AND SIDEWALK LEVEL PLAN" DATED 16 DECEMBER 1916.
B. "STRUCTURAL PLANS, 47TH STREET STATION ENTRANCES—EAST SIDE SECTION "I"—" DATED 6 JULY 1916.
C. "STRUCTURAL PLANS, 47TH ST STA 233+10 TO STA 239+45 SECTION B-B" DATED 27 OCTOBER 1918.
- EXISTING FOUNDATION INFORMATION TAKEN FROM DESIMONE STRUCTURAL DRAWINGS DATED FEBRUARY 02, 1988, LATEST REVISION JANUARY 24, 1989.

GENERAL NOTES (CONT.):

- DEPTH AND DIMENSION OF EXISTING FOOTINGS TO BE VERIFIED IN FIELD.
- ROCK EXCAVATION TO BE PERFORMED MINIMUM 1 FT FROM FACE OF EXISTING FOOTING.
- PROPOSED FOUNDATION WALL THICKNESS TO BE COORDINATED WITH STRUCTURAL ENGINEER AND STRUCTURAL DRAWINGS.
- ROCK BOLTS TO BE INSTALLED AS NEEDED.
- UNDERGROUND UTILITIES NOT SHOWN.

GENERAL NOTES (CONT.):

- THE SUBSURFACE PROFILE REPRESENTS A GENERALIZED SOIL AND ROCK CROSS SECTION INTERPRETED FROM WIDELY SPACED BORINGS. SOIL, ROCK AND GROUNDWATER MAY VARY IN TYPE, LOCATION, ELEVATION, AND ENVIRONMENTAL AND ENGINEERING PROPERTIES BETWEEN POINTS OF EXPLORATION. VARIATIONS IN SUBSURFACE CONDITIONS SHOULD BE EXPECTED BETWEEN BORINGS.
- UPON COMPLETION OF NEW COLUMN INSTALLATION AND TRANSFERENCE OF LOAD, TEMPORARY SUPPORT CAISSON WILL BE REMOVED (REFERENCE URBAN FOUNDATION SUPPORT DRAWINGS FOR DETAIL).
- REFER TO DEMOLITION BRACING PLANS BY HOWARD SHAPIRO.



PHASE-3: EXCAVATION AND BRACING OF CAISSONS WHILE EXCAVATION

DOB APPROVAL STAMP

04.13.2017	14	IN ACCORDANCE WITH NYCTA COMMENTS
05.13.2017	13	IN ACCORDANCE WITH NYCTA COMMENTS
02.28.2017	12	ISSUED FOR 50% CDS
02.24.2017	11	IN ACCORDANCE WITH NYCTA COMMENTS
11.10.2016	10	NYCTA SUBMISSION
10.28.2016	9	100% DESIGN DEVELOPMENT
09.02.2016	8	100% DESIGN DEVELOPMENT
07.15.2016	7	50% DESIGN DEVELOPMENT
06.24.2016	6	TA FILING
06.18.2016	5	DEVELOPMENT REPORT
04.08.2016	4	100% SCHEMATIC DESIGN
02.17.2016	3	50% SCHEMATIC DESIGN
12.24.2015	2	DEVELOPMENT REPORT
12.11.2015	1	FEASIBILITY STUDY

Date: No.: Description:

Project:
1568 Broadway

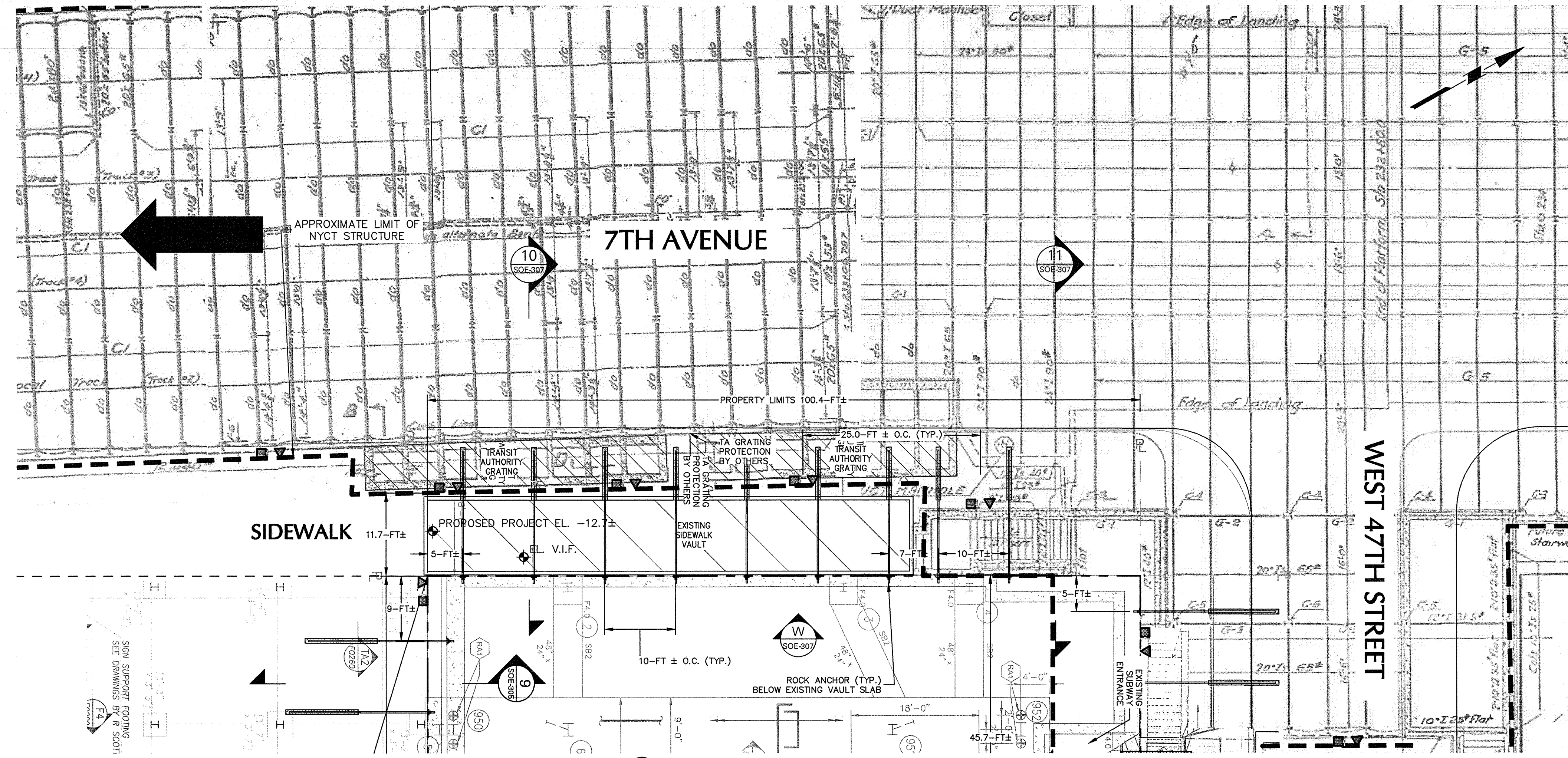
New York, NY 10036

Sheet Title:
SUPPORT OF EXCAVATION WEST (STAGING)

Project Number: 13649
Drawn By: SCS
Checked By: LEF
Scale: AS NOTED
Sheet Number: SOE-307.00

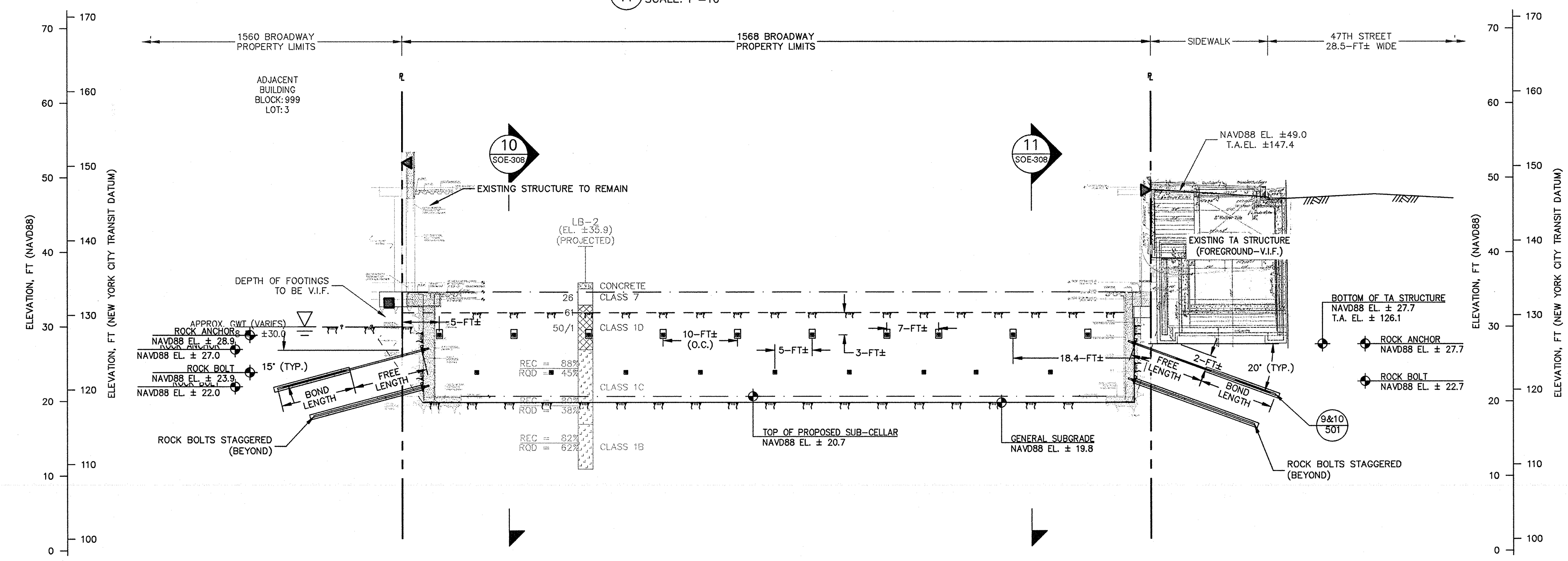
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NYC DOB Number: Sheet: 19 of 25

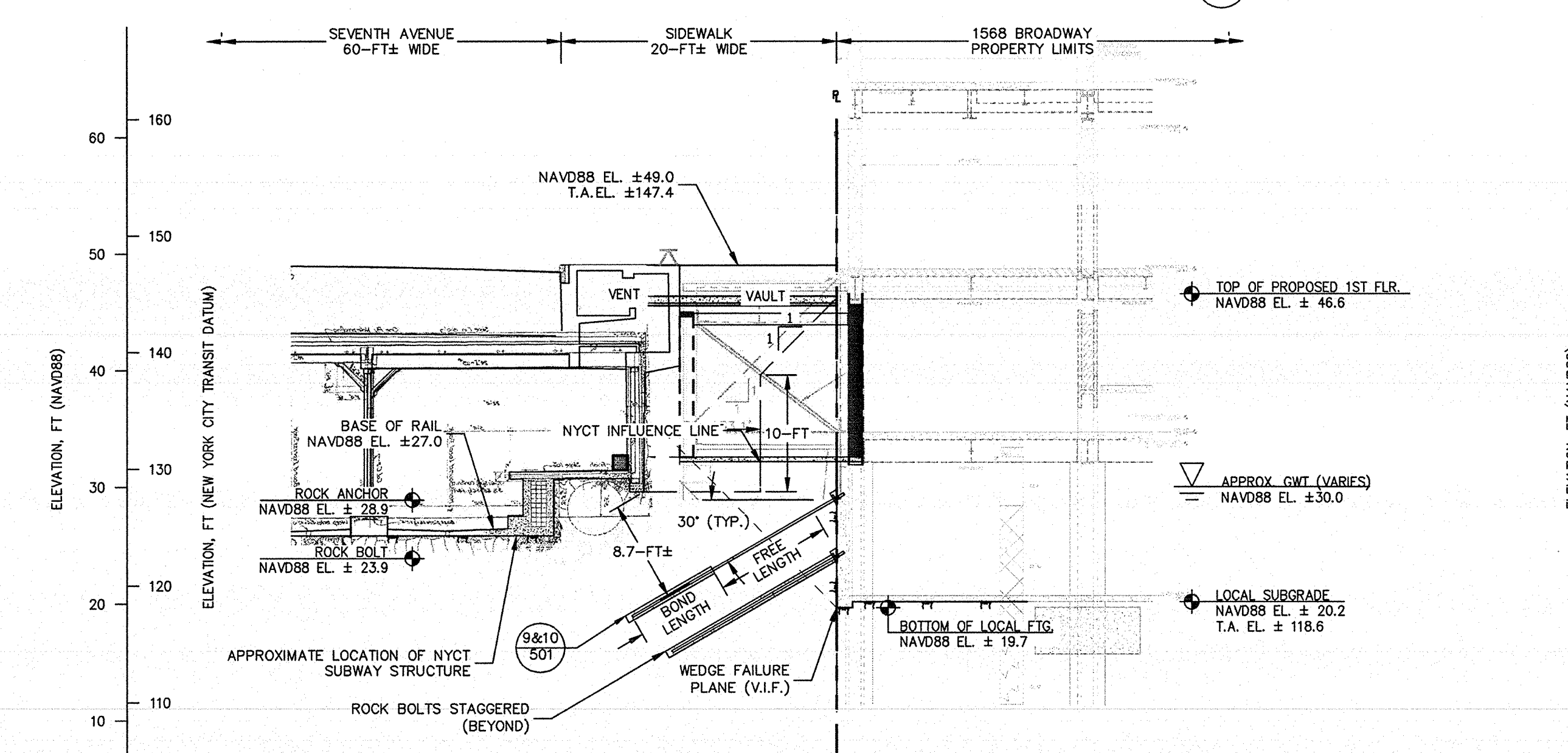


WEST PART PLAN: NEW BUILDING
SCALE: 1"=10'

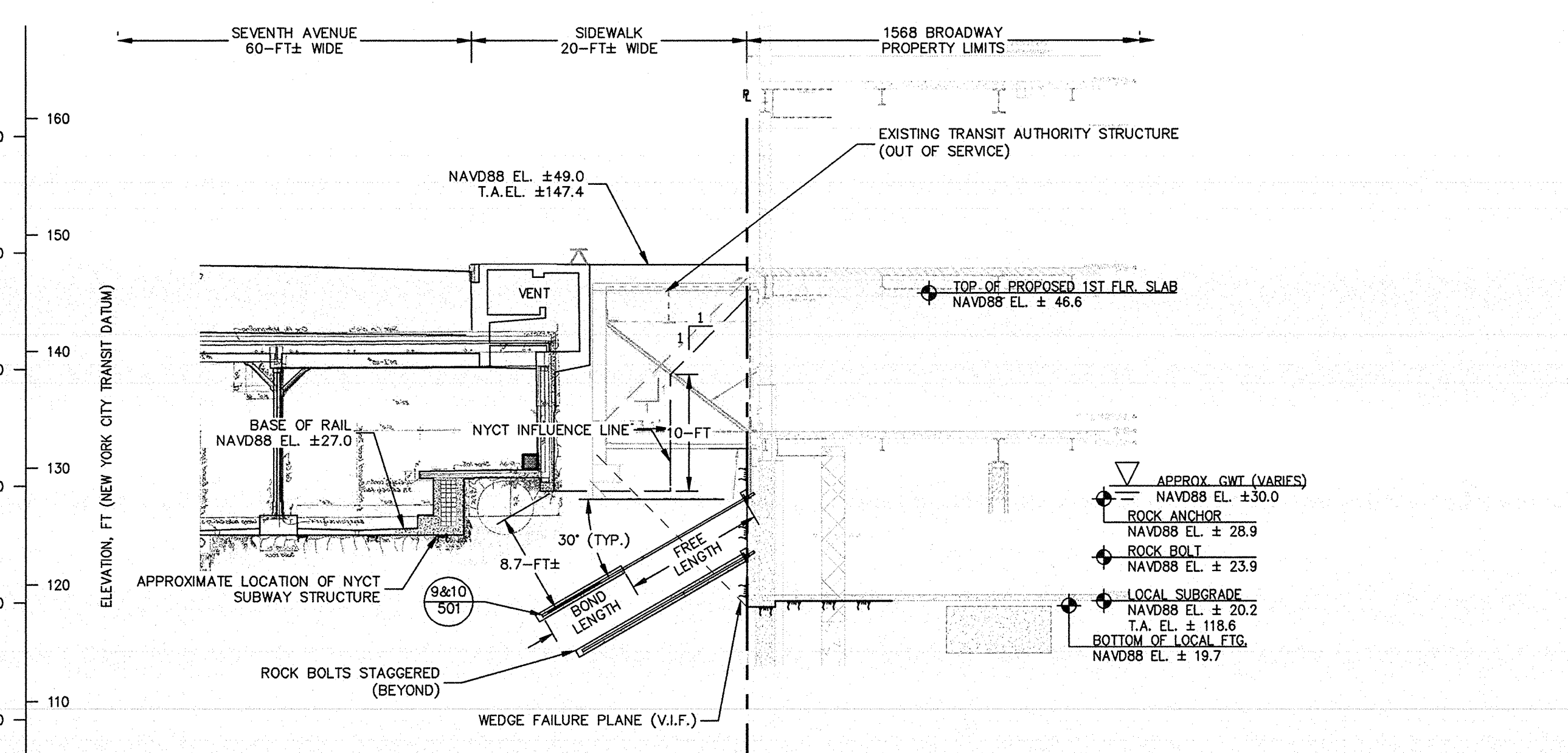
NOTE:
1. SEE SOE-403 & SOE-404 FOR TRANSIT AUTHORITY DETAILED SECTIONS 9 AND 10



WEST ELEVATION: NEW BUILDING
SCALE: 1"=10'



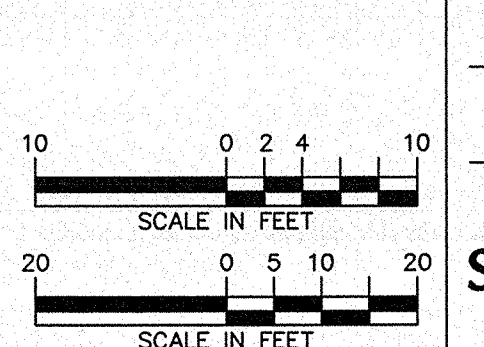
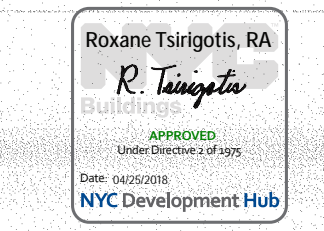
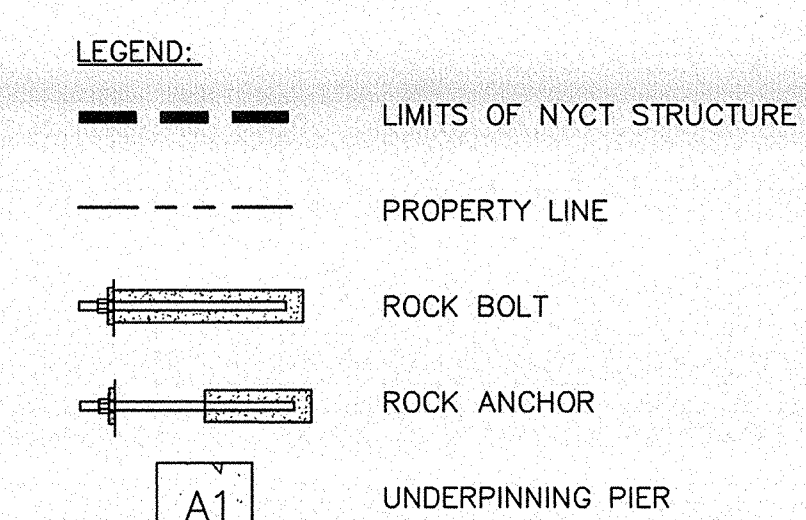
SECTION 10: FINAL CONDITION
SCALE: 1"=10'



SECTION 11: FINAL CONDITION
SCALE: 1"=10'

- GENERAL NOTES:
- NEW FOUNDATION PLAN TAKEN FROM SEVERUD ASSOCIATES STRUCTURAL DRAWINGS RECEIVED ON JUNE 23, 2016, 2ND SUB-CELLAR INFORMATION RECEIVED ON JULY 15, 2016.
 - TOPOGRAPHIC SURVEY PROVIDED BY EARL B. LOVELL-S.P. BELCHER, INC DATED DECEMBER 14, 2015. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 - LIMITS OF NEW YORK CITY TRANSIT (NYCT) STRUCTURE ARE REFERENCED TO THE FOLLOWING DRAWINGS:
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 - B. "STRUCTURAL PLANS, 47TH STREET STATION ENTRANCES-EAST SIDE SECTION I-I" DATED 6 JULY 1916.
 - C. "STRUCTURAL PLANS, 47TH ST STA 233+10 TO STA 239+45 SECTION B-B" DATED 27 OCTOBER 1918.
 - EXISTING FOUNDATION INFORMATION TAKEN FROM DESMONE STRUCTURAL DRAWINGS DATED FEBRUARY 02, 1988, LATEST REVISION JANUARY 24, 1989.

- GENERAL NOTES (CONT.):
- DEPTH AND DIMENSION OF EXISTING FOOTINGS TO BE VERIFIED IN FIELD.
 - ROCK EXCAVATION TO BE PERFORMED MINIMUM 1 FT FROM FACE OF EXISTING FOOTING.
 - PROPOSED FOUNDATION WALL THICKNESS TO BE COORDINATED WITH STRUCTURAL ENGINEER AND STRUCTURAL DRAWINGS.
 - ROCK BOLTS TO BE INSTALLED AS NEEDED.
 - UNDERGROUND UTILITIES NOT SHOWN.
 - THE SUBSURFACE PROFILE REPRESENTS A GENERALIZED SOIL AND ROCK CROSS SECTION INTERPRETED FROM WIDELY SPACED BORINGS. SOIL ROCK AND GROUNDWATER MAY VARY IN TYPE, LOCATION, ELEVATION, AND ENVIRONMENTAL AND ENGINEERING PROPERTIES BETWEEN POINTS OF EXPLORATION. VARIATIONS IN SUBSURFACE CONDITIONS SHOULD BE EXPECTED BETWEEN BORINGS.
 - UPON COMPLETION OF NEW COLUMN INSTALLATION AND TRANSFERENCE OF LOAD, TEMPORARY SUPPORT CAISSON WILL BE REMOVED (REFERENCE URBAN FOUNDATION SUPPORT DRAWINGS FOR DETAIL).
 - REFER TO DEMOLITION BRACING PLANS BY HOWARD SHAPIRO.



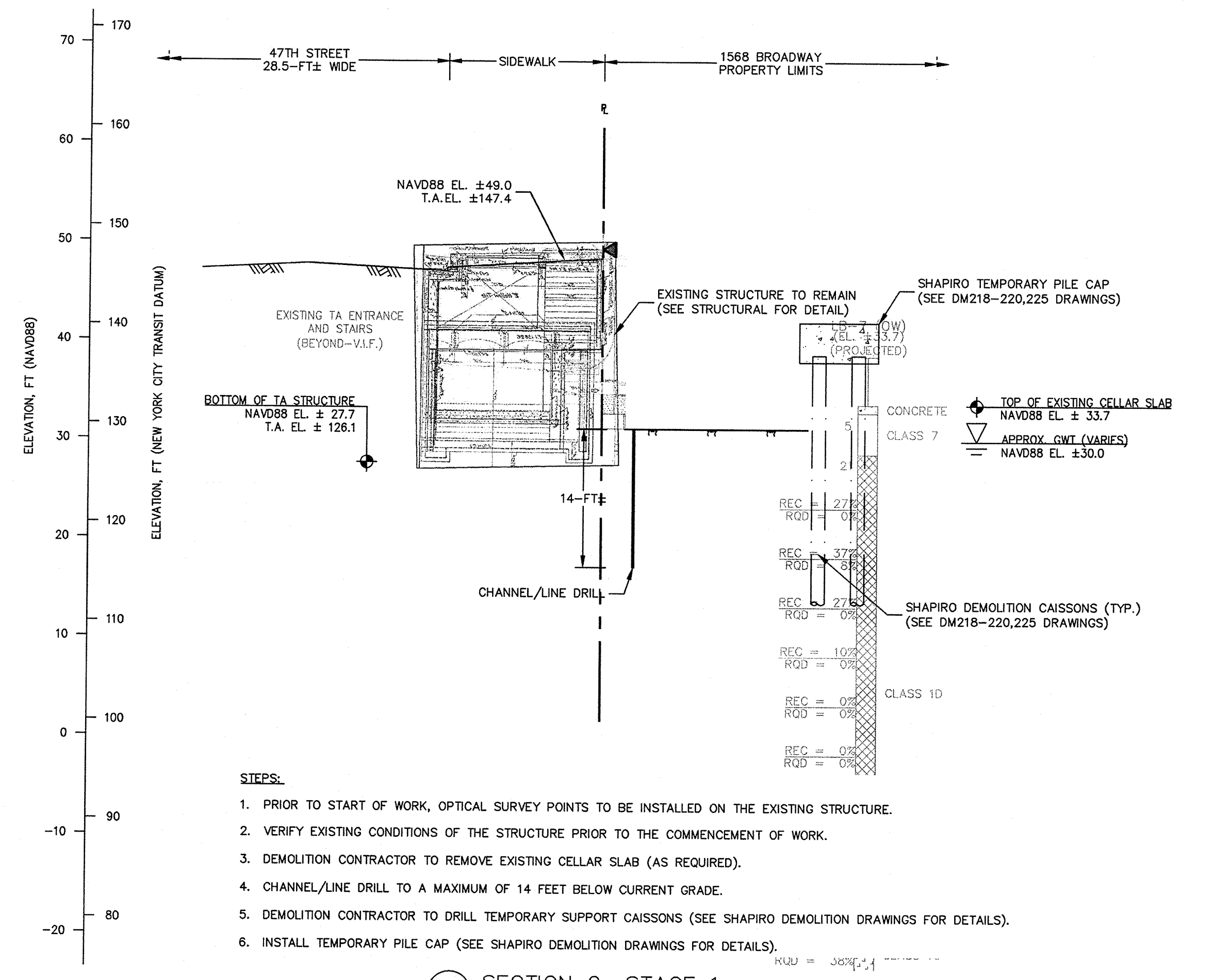
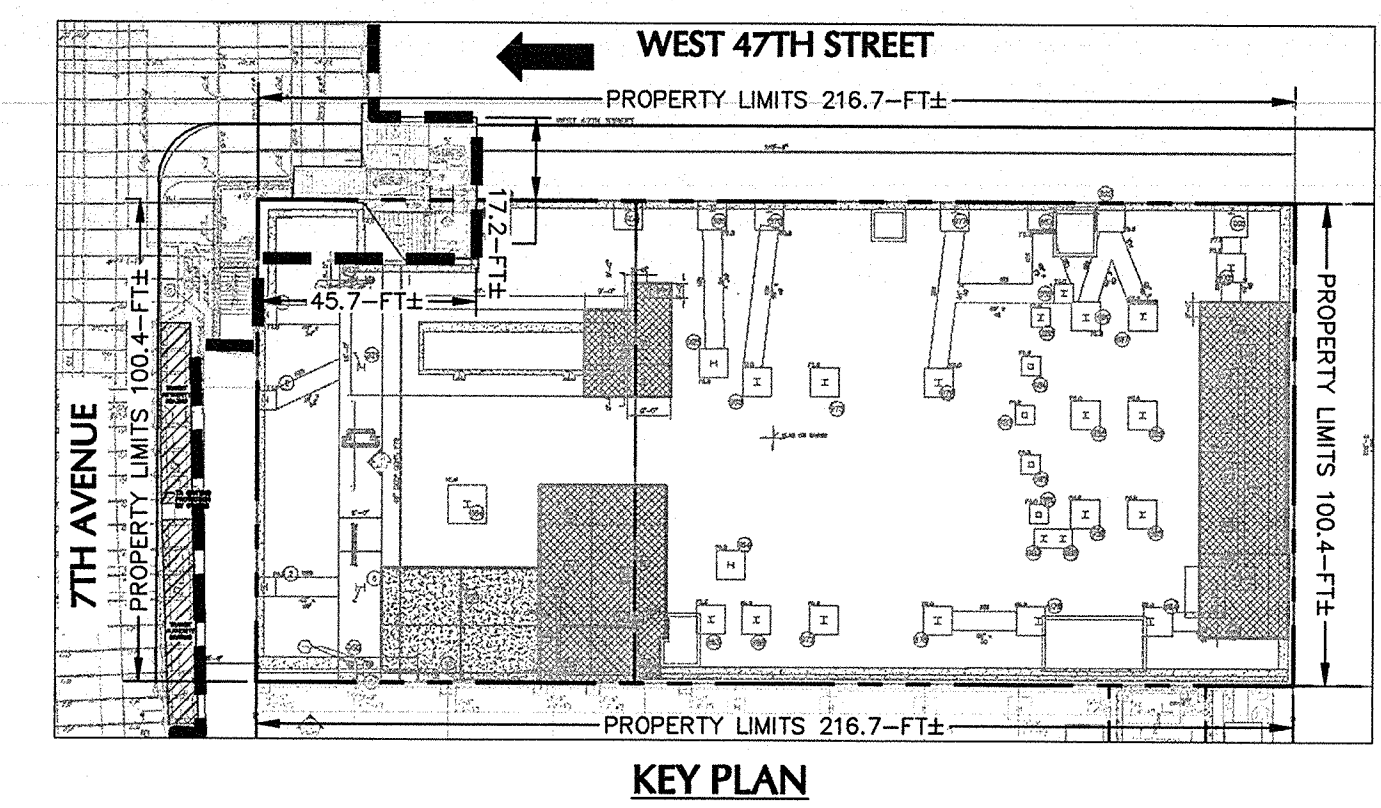
PHASE-3: EXCAVATION AND BRACING OF CAISSONS WHILE EXCAVATION

DOB APPROVAL STAMP		
04.13.2017	14	IN ACCORDANCE WITH NYCTA COMMENTS
03.13.2017	13	IN ACCORDANCE WITH NYCTA COMMENTS
02.28.2017	12	ISSUED FOR 50% CDS
02.24.2017	11	IN ACCORDANCE WITH NYCTA COMMENTS
11.10.2016	10	NYCTA SUBMISSION
10.28.2016	9	100% DESIGN DEVELOPMENT
09.02.2016	8	100% DESIGN DEVELOPMENT
07.15.2016	7	60% DESIGN DEVELOPMENT
06.24.2016	6	TA FILING
05.18.2016	5	DEVELOPMENT REPORT
04.08.2016	4	100% SCHEMATIC DESIGN
02.17.2016	3	60% SCHEMATIC DESIGN
12.24.2015	2	DEVELOPMENT REPORT
12.11.2015	1	FEASIBILITY STUDY

Project:
1568 Broadway
New York, NY 10036

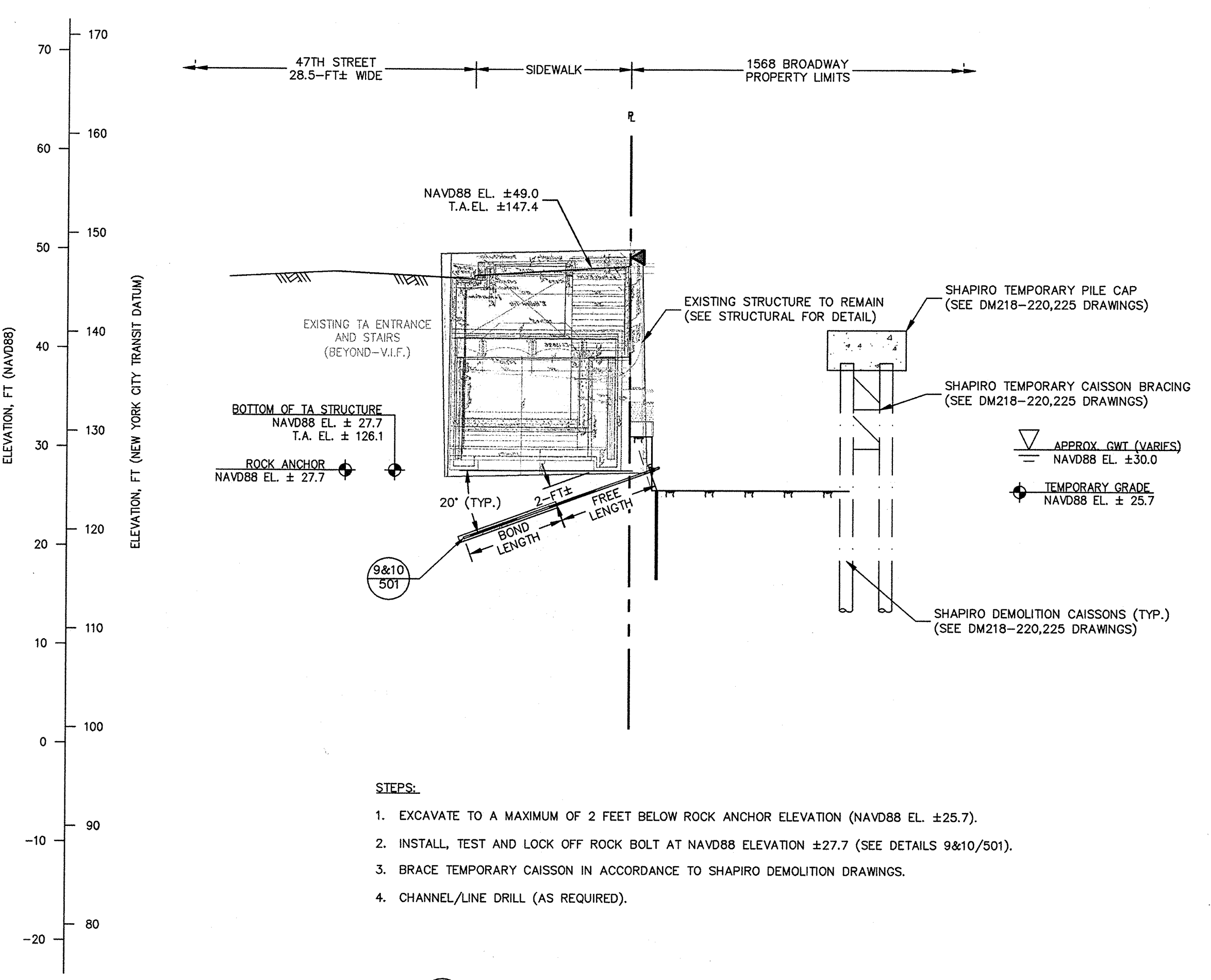
SHEET TITLE:
SUPPORT OF EXCAVATION WEST (NEW BUILDING)

Project Number: 13649
Signature & Seal: [Signature]
Drawn By: SCS
Checked By: LEF
Scale: AS NOTED
Sheet Number: SOE-308.00



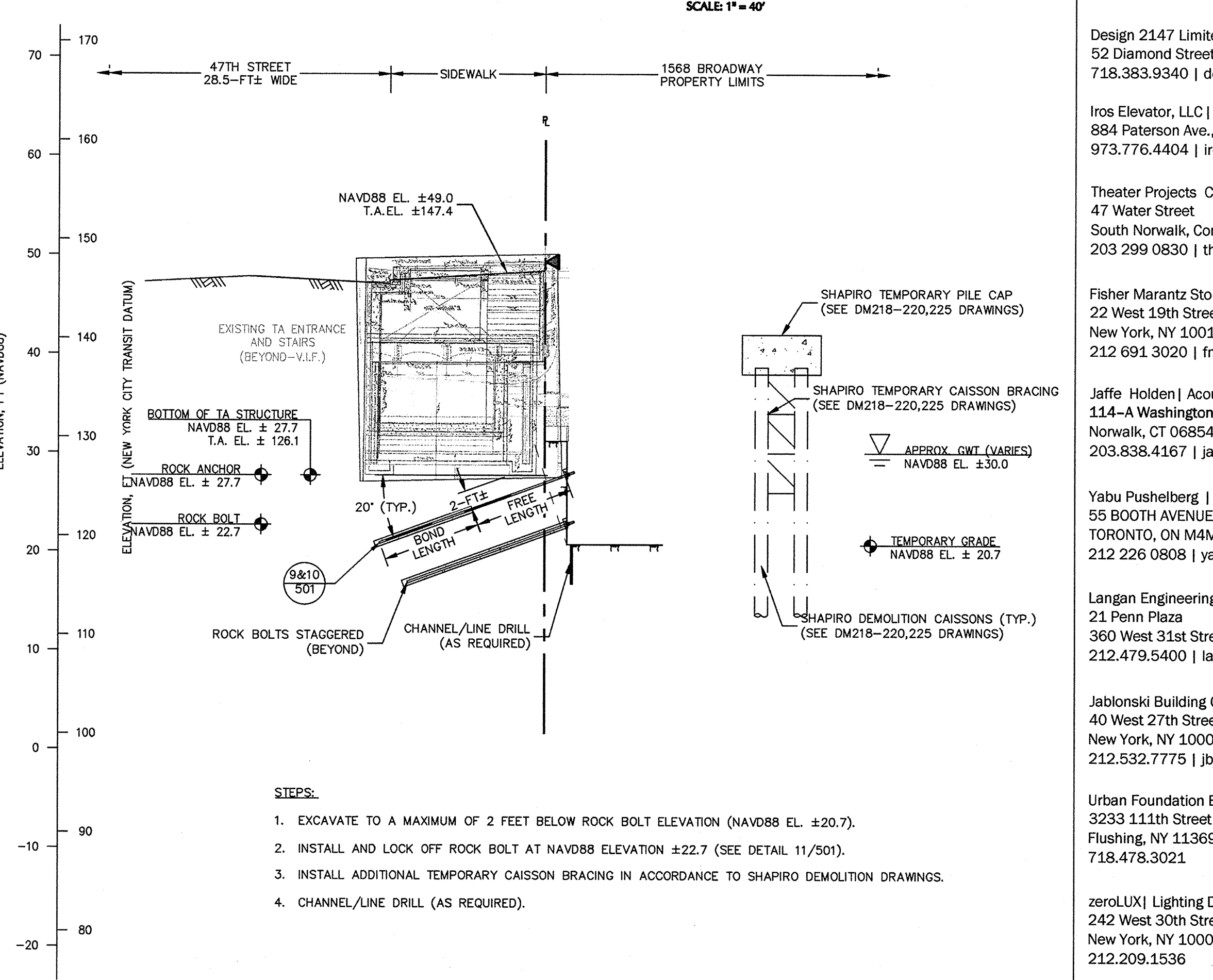
- STEPS:
1. PRIOR TO START OF WORK, OPTICAL SURVEY POINTS TO BE INSTALLED ON THE EXISTING STRUCTURE.
 2. VERIFY EXISTING CONDITIONS OF THE STRUCTURE PRIOR TO THE COMMENCEMENT OF WORK.
 3. DEMOLITION CONTRACTOR TO REMOVE EXISTING CELLAR SLAB (AS REQUIRED).
 4. CHANNEL/LINE DRILL TO A MAXIMUM OF 14 FEET BELOW CURRENT GRADE.
 5. DEMOLITION CONTRACTOR TO DRILL TEMPORARY SUPPORT CAISSONS (SEE SHAPIRO DEMOLITION DRAWINGS FOR DETAILS).
 6. INSTALL TEMPORARY PILE CAP (SEE SHAPIRO DEMOLITION DRAWINGS FOR DETAILS).

SECTION 2: STAGE 1
SCALE: 1"=10'



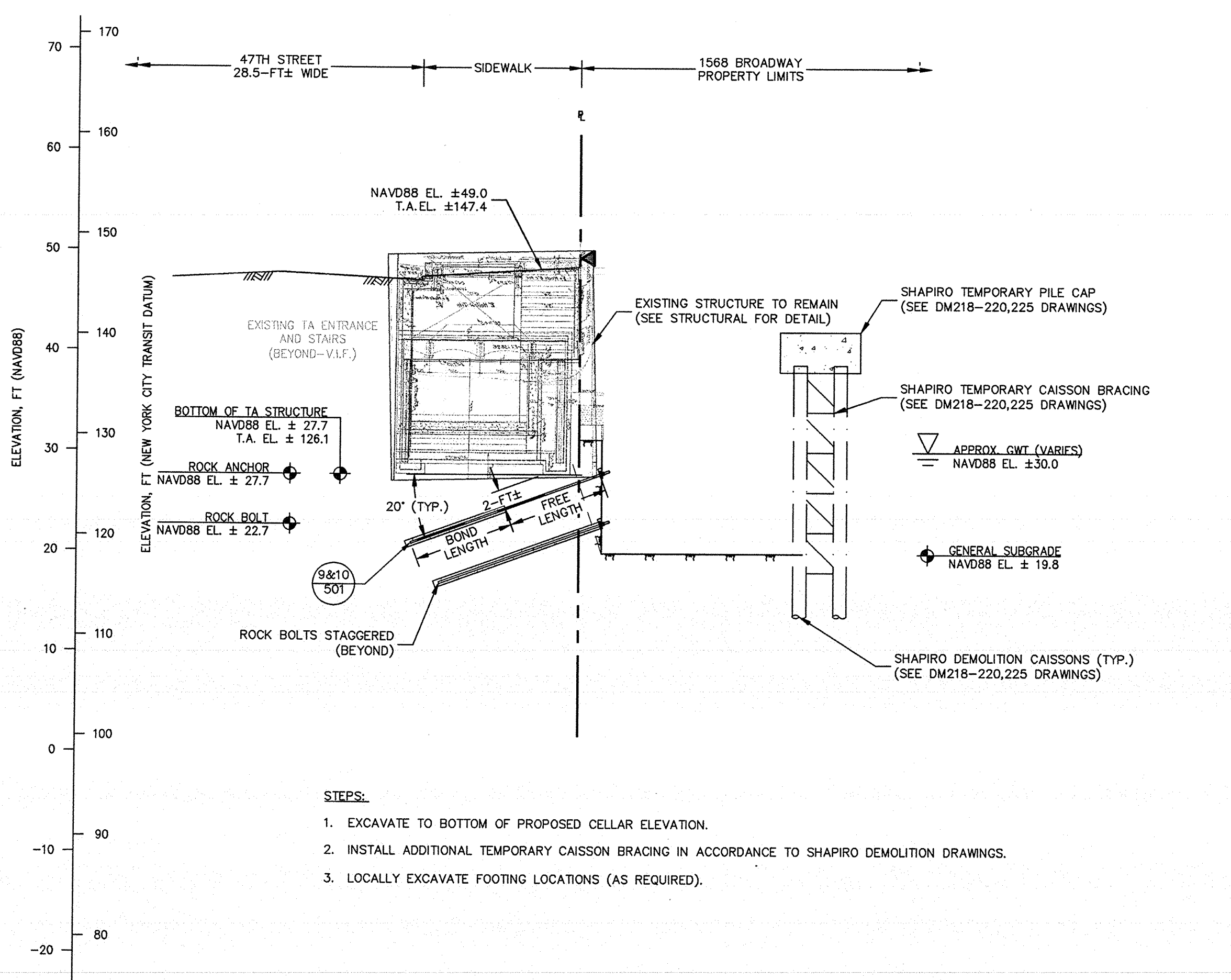
- STEPS:
1. EXCAVATE TO A MAXIMUM OF 2 FEET BELOW ROCK ANCHOR ELEVATION (NAVD88 EL. ±25.7).
 2. INSTALL, TEST AND LOCK OFF ROCK BOLT AT NAVD88 ELEVATION ±27.7 (SEE DETAILS 9&10/501).
 3. BRACE TEMPORARY CAISSON IN ACCORDANCE TO SHAPIRO DEMOLITION DRAWINGS.
 4. CHANNEL/LINE DRILL (AS REQUIRED).

SECTION 2: STAGE 2
SCALE: 1"=10'



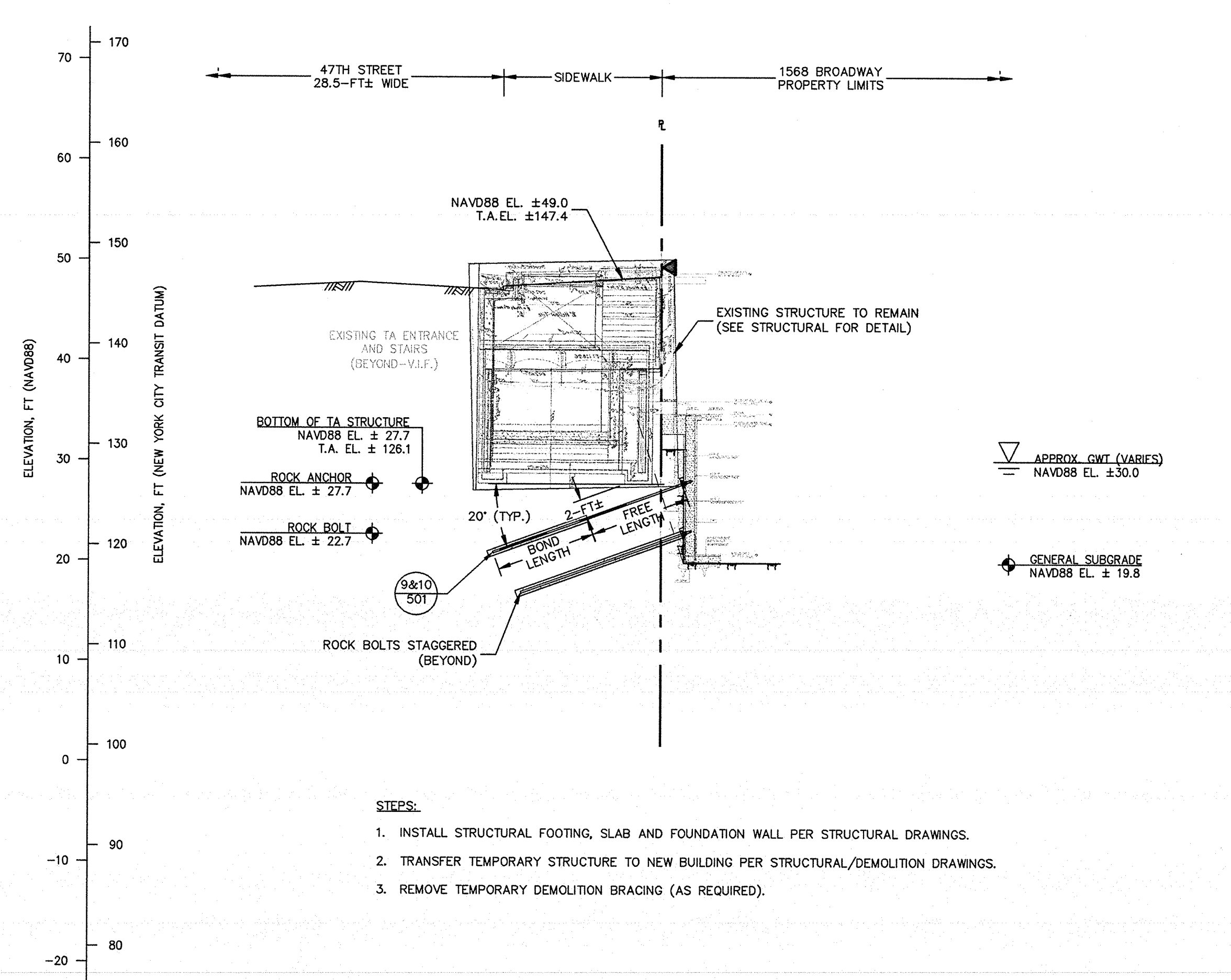
- STEPS:
1. EXCAVATE TO A MAXIMUM OF 2 FEET BELOW ROCK BOLT ELEVATION (NAVD88 EL. ±20.7).
 2. INSTALL AND LOCK OFF ROCK BOLT AT NAVD88 ELEVATION ±22.7 (SEE DETAIL 11/501).
 3. INSTALL ADDITIONAL TEMPORARY CAISSON BRACING IN ACCORDANCE TO SHAPIRO DEMOLITION DRAWINGS.
 4. CHANNEL/LINE DRILL (AS REQUIRED).

SECTION 2: STAGE 3
SCALE: 1"=10'



- STEPS:
1. EXCAVATE TO BOTTOM OF PROPOSED CELLAR ELEVATION.
 2. INSTALL ADDITIONAL TEMPORARY CAISSON BRACING IN ACCORDANCE TO SHAPIRO DEMOLITION DRAWINGS.
 3. LOCALLY EXCAVATE FOOTING LOCATIONS (AS REQUIRED).

SECTION 2: STAGE 4
SCALE: 1"=10'



- STEPS:
1. INSTALL STRUCTURAL FOOTING, SLAB AND FOUNDATION WALL PER STRUCTURAL DRAWINGS.
 2. TRANSFER TEMPORARY STRUCTURE TO NEW BUILDING PER STRUCTURAL/DEMOLITION DRAWINGS.
 3. REMOVE TEMPORARY DEMOLITION BRACING (AS REQUIRED).

SECTION 2: FINAL
SCALE: 1"=10'

GENERAL NOTES:

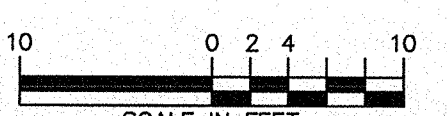
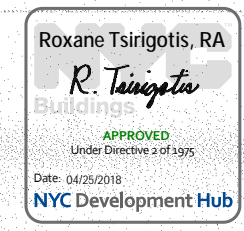
1. NEW FOUNDATION PLAN TAKEN FROM SEVERUD ASSOCIATES STRUCTURAL DRAWINGS RECEIVED ON JUNE 23, 2016. 2ND SUB-CELLAR INFORMATION RECEIVED ON JULY 15, 2016.
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C. "STRUCTURAL PLANS, 47TH ST STA 233+10 TO STA 239+45 SECTION B-B" DATED 27 OCTOBER 1918.
4. EXISTING FOUNDATION INFORMATION TAKEN FROM DESIMONE STRUCTURAL DRAWINGS DATED FEBRUARY 02, 1988, LATEST REVISION JANUARY 24, 1989.

GENERAL NOTES (CONT.):

5. DEPTH AND DIMENSION OF EXISTING FOOTINGS TO BE VERIFIED IN FIELD.
6. ROCK EXCAVATION TO BE PERFORMED MINIMUM 1 FT FROM FACE OF EXISTING FOOTING.
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8. ROCK BOLTS TO BE INSTALLED AS NEEDED.
9. UNDERGROUND UTILITIES NOT SHOWN.

GENERAL NOTES (CONT.):

10. THE SUBSURFACE PROFILE REPRESENTS A GENERALIZED SOIL AND ROCK CROSS SECTION INTERPRETED FROM WIDELY SPACED BORINGS. SOIL, ROCK AND GROUNDWATER MAY VARY IN TYPE, LOCATION, ELEVATION, AND ENVIRONMENTAL AND ENGINEERING PROPERTIES BETWEEN POINTS OF EXPLORATION. VARIATIONS IN SUBSURFACE CONDITIONS SHOULD BE EXPECTED BETWEEN BORINGS.
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12. REFER TO DEMOLITION BRACING PLANS BY HOWARD SHAPIRO.



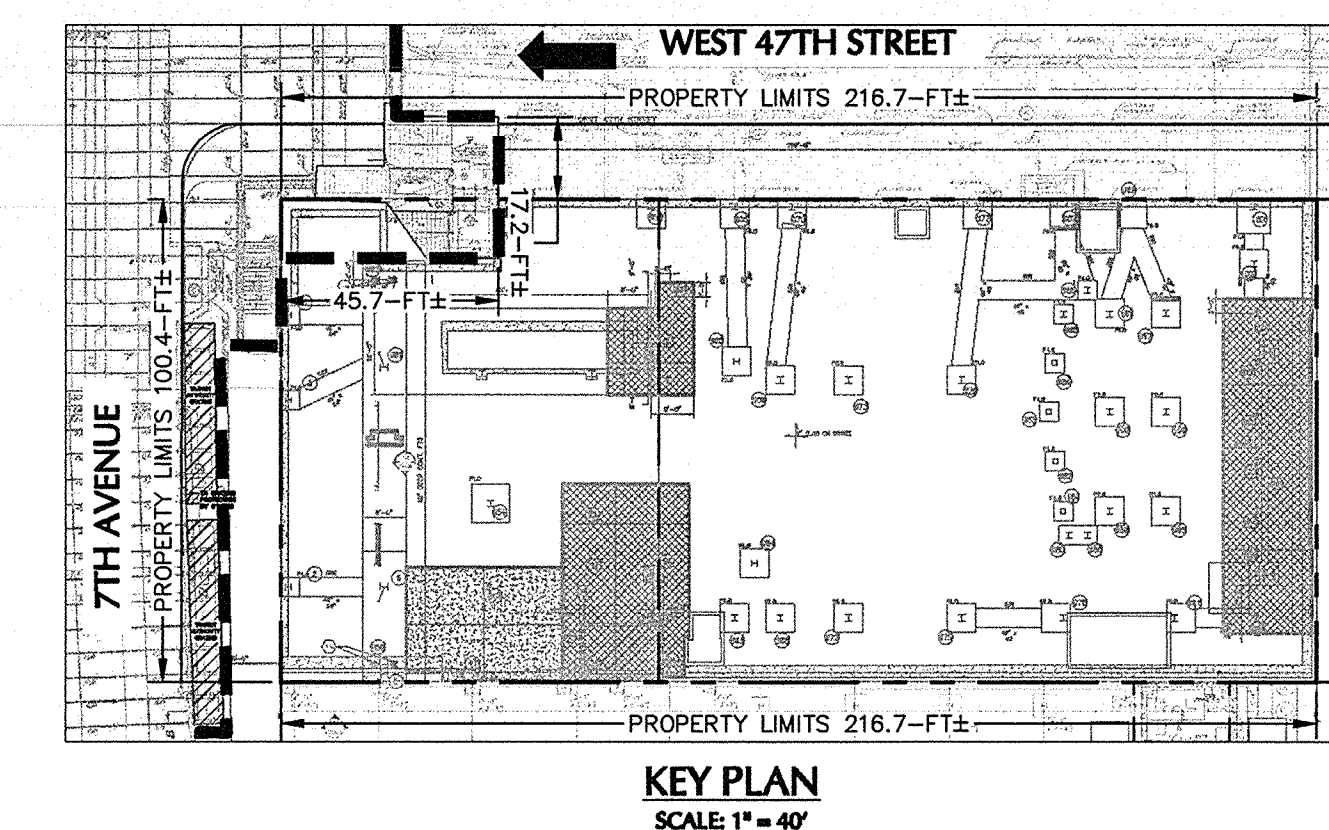
PHASE-3: EXCAVATION AND BRACING OF CAISSONS WHILE EXCAVATION

DOB APPROVAL STAMP		
04.13.2017	14	IN ACCORDANCE WITH NYCTA COMMENTS
03.13.2017	13	IN ACCORDANCE WITH NYCTA COMMENTS
02.28.2017	12	ISSUED FOR 50% CDs
02.24.2017	11	IN ACCORDANCE WITH NYCTA COMMENTS
11.10.2016	10	NYCTA SUBMISSION
10.28.2016	9	100% DESIGN DEVELOPMENT
09.02.2016	8	100% DESIGN DEVELOPMENT
07.15.2016	7	50% DESIGN DEVELOPMENT
06.24.2016	6	TA FILING
05.18.2016	5	DEVELOPMENT REPORT
04.08.2016	4	100% SCHEMATIC DESIGN
02.17.2016	3	50% SCHEMATIC DESIGN
12.24.2015	2	DEVELOPMENT REPORT
12.11.2015	1	FEASIBILITY STUDY
Date:	No.:	Description:

Project:
1568 Broadway
New York, NY 10036

Sheet Title:
**SUPPORT OF EXCAVATION
TRANSIT AUTHORITY
SECTION (1 OF 4)**

Project Number: 13849	Signature & Seal
Drawn By: SCS	
Checked By: LEF	
Scale: 1" = 10'	
Sheet Number: SOE-401.00	



Platt Byard Dorell White Architects LLP
49 West 37th Street, New York, NY 10018
212.691.2440 | pbdw.com

Severud Associates | Structural Engineer
469 Seventh Avenue, 9th Floor
New York, NY 10018
212.966.3700 | severud.com

Cosentini Associates | Mechanical Engineer
Two Pennsylvania Plaza, 3rd Floor
New York, NY 10121
212.615.3600 | cosentini.com

AAI Architects, P.C. | Interior Architect
14 Wall Street, 2nd Floor
New York City, New York 10005
212.964.4040 | adams-on-associates.com

Design 2147 Limited | Code Consultant
52 Diamond Street, Brooklyn, NY 11222
718.383.9340 | design2147.com

Iros Elevator, LLC | Elevator Consultant
884 Paterson Ave., East Rutherford, NJ 07073
973.776.4404 | iroselevator.com

Theater Projects Consultants | Theater Consultant
47 Water Street
South Norwalk, Connecticut 068541
203.299.0830 | theaterprojects.com

Fisher Marantz Stone | Lighting Design
22 West 19th Street, Floor 6
New York, NY 10011
212.691.3020 | fmsp.com

Jaffe Holden | Acoustic Consultant
114-A Washington Street
Norwalk, CT 06854
203.838.4167 | jaffeholden.com

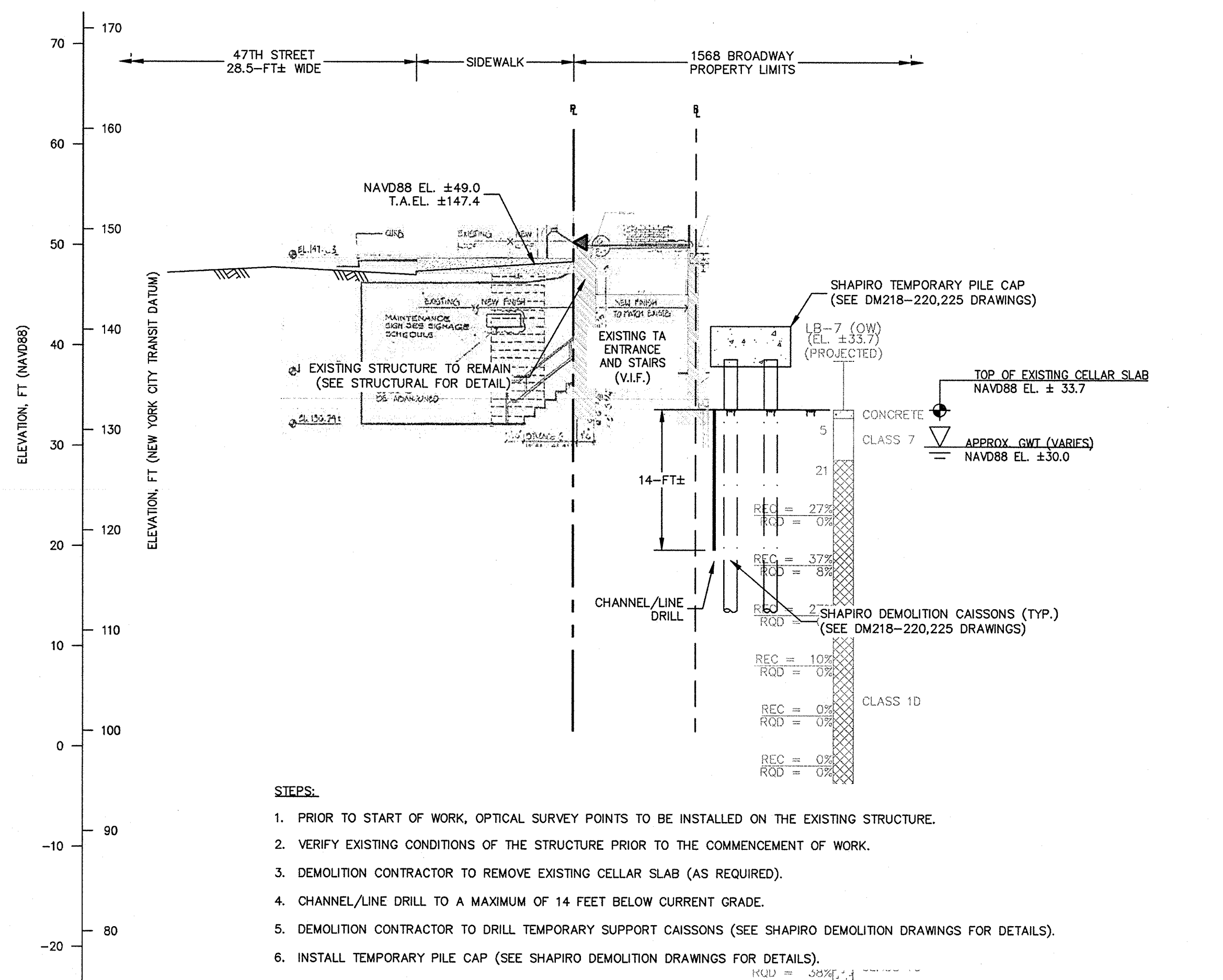
Yabu Pushelberg | Interior Design
55 800TH AVENUE
TORONTO, ON M4M 2M3
212.226.0808 | yabupushelberg.com

Langan Engineering | Geotechnical Engineering
21 Penn Plaza
360 West 31st Street, 8th Floor, New York, NY 10001
212.479.5400 | langan.com

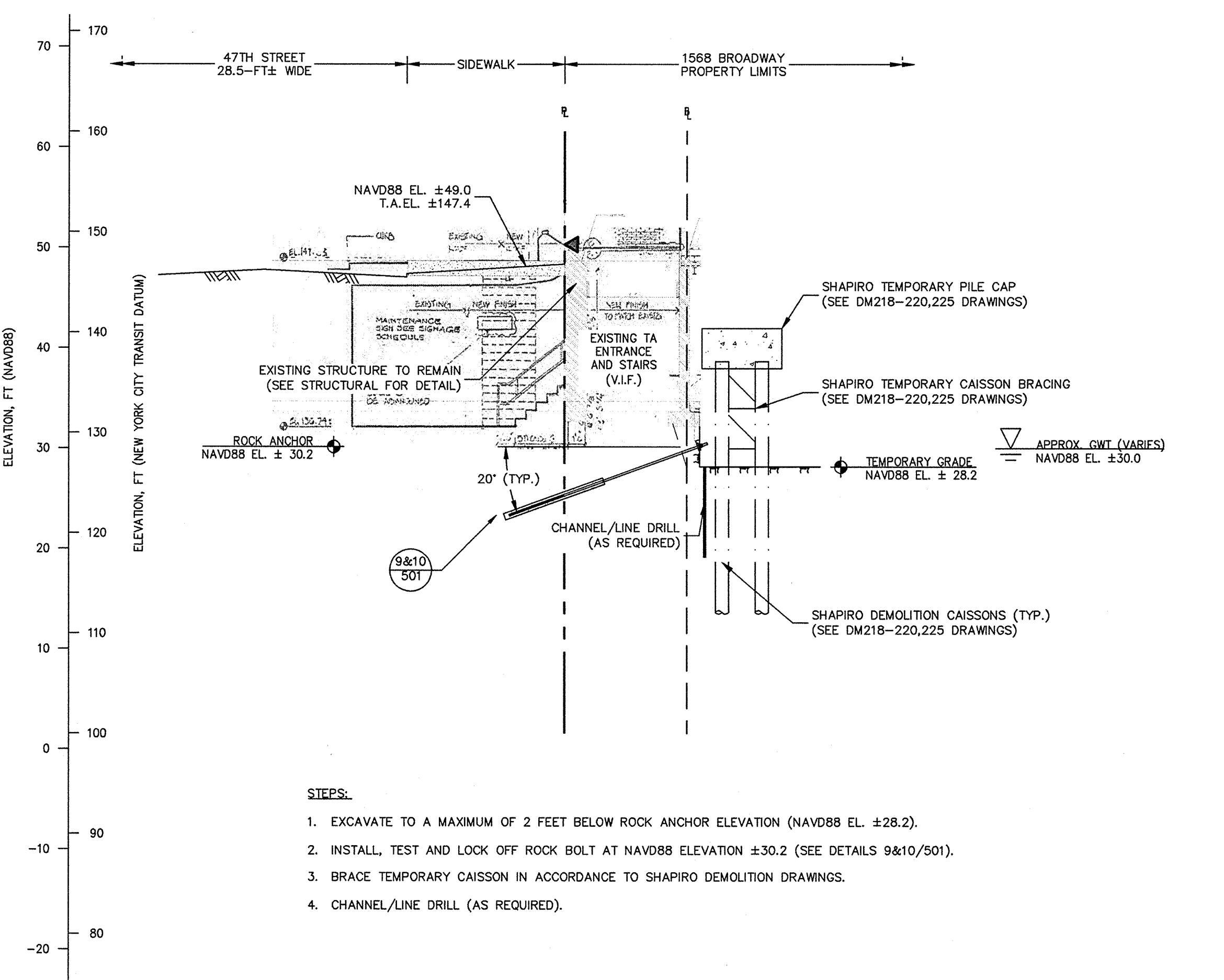
Jablonski Building Conservation | Conservation Consultant
40 West 27th Street, 12th Floor
New York, NY 10001
212.532.7775 | jbcconservation.com

Urban Foundation Engineering | Foundation Engineer
3233 111th Street
Flushing, NY 11369
718.478.3021

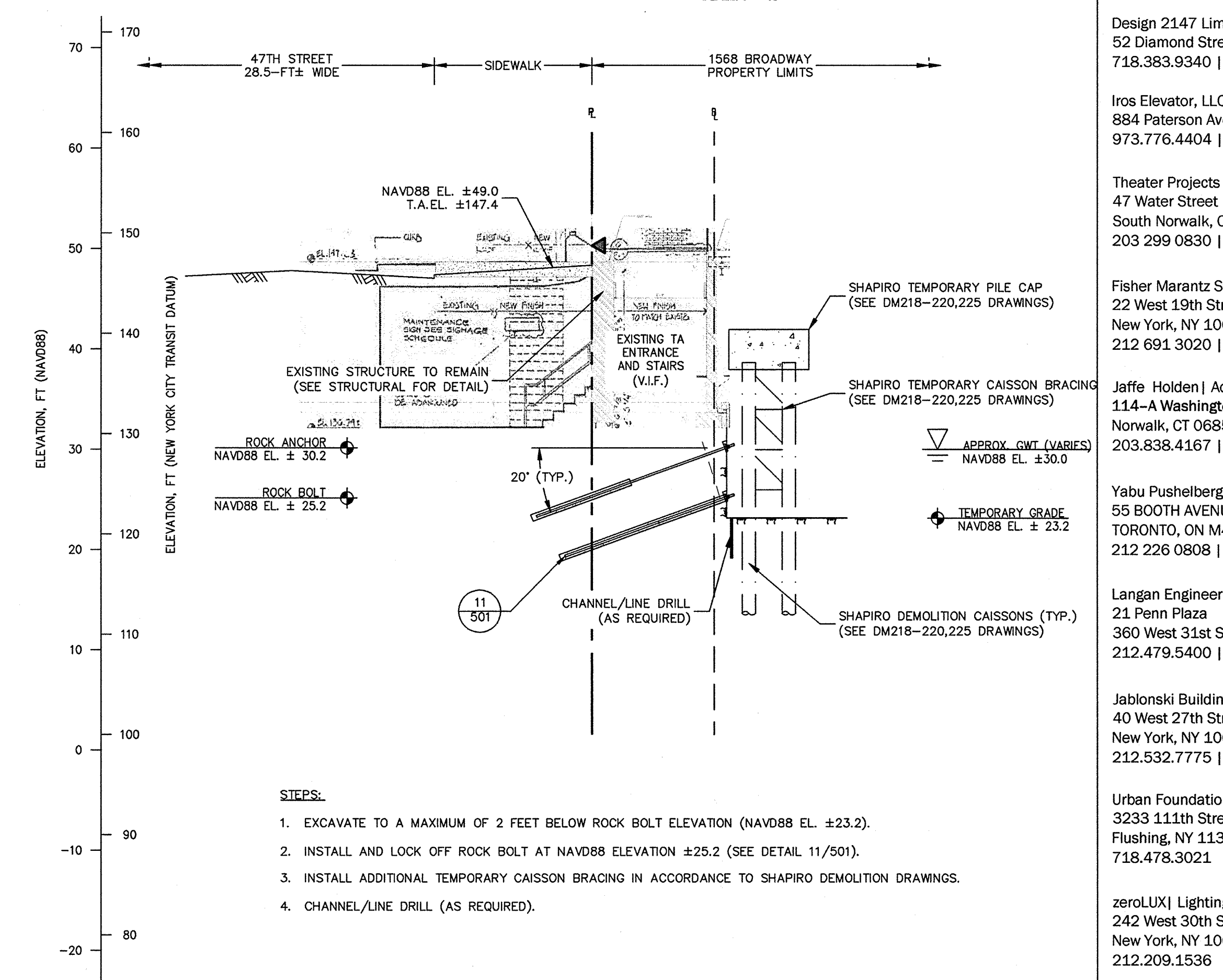
zeroLUX | Lighting Design
242 West 30th Street, Level 2
New York, NY 10001
212.209.1536



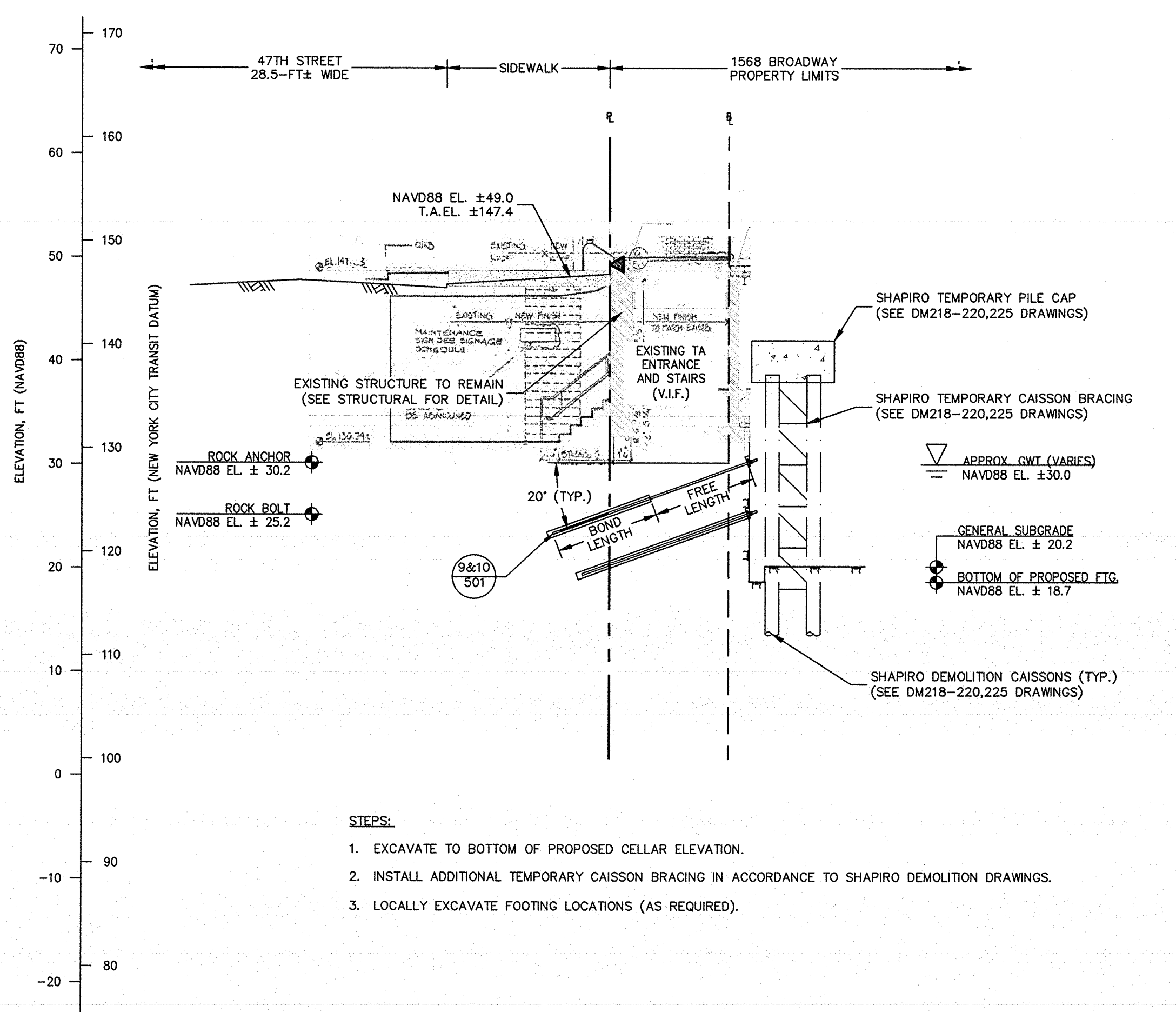
SECTION 3: STAGE 1
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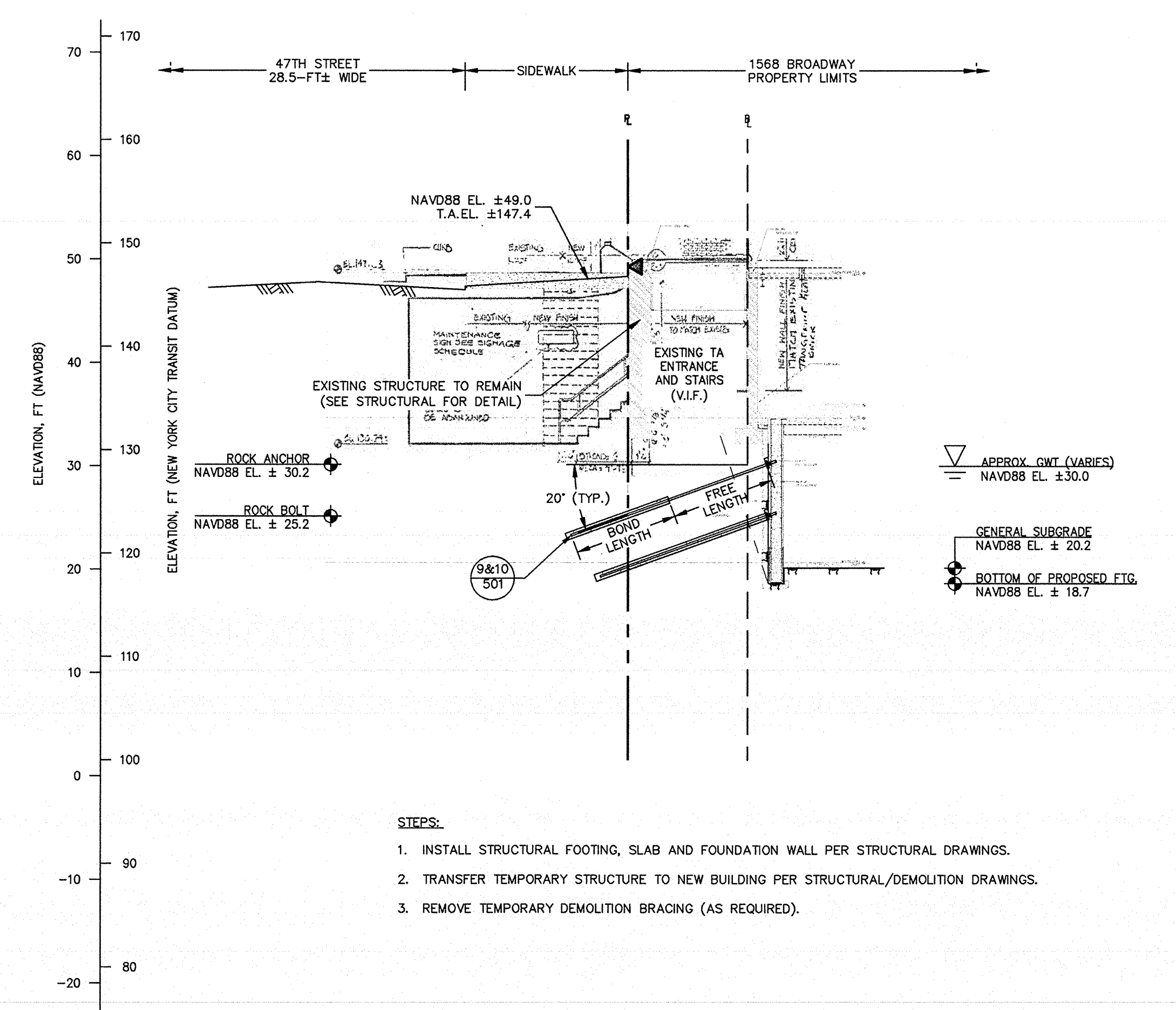
SECTION 3: STAGE 2
SCALE: 1" = 10'



SECTION 3: STAGE 3
SCALE: 1" = 10'



SECTION 3: STAGE 4
SCALE: 1" = 10'



SECTION 3: FINAL
SCALE: 1" = 10'

GENERAL NOTES:

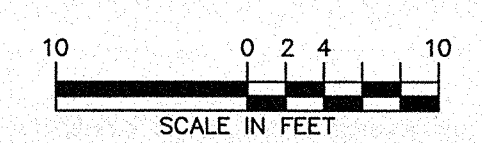
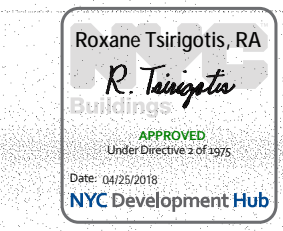
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GENERAL NOTES (CONT.):

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DOB APPROVAL STAMP

Date	No.	Description
04.13.2017	14	IN ACCORDANCE WITH NYCTA COMMENTS
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12.24.2015	2	DEVELOPMENT REPORT
12.11.2015	1	FEASIBILITY STUDY

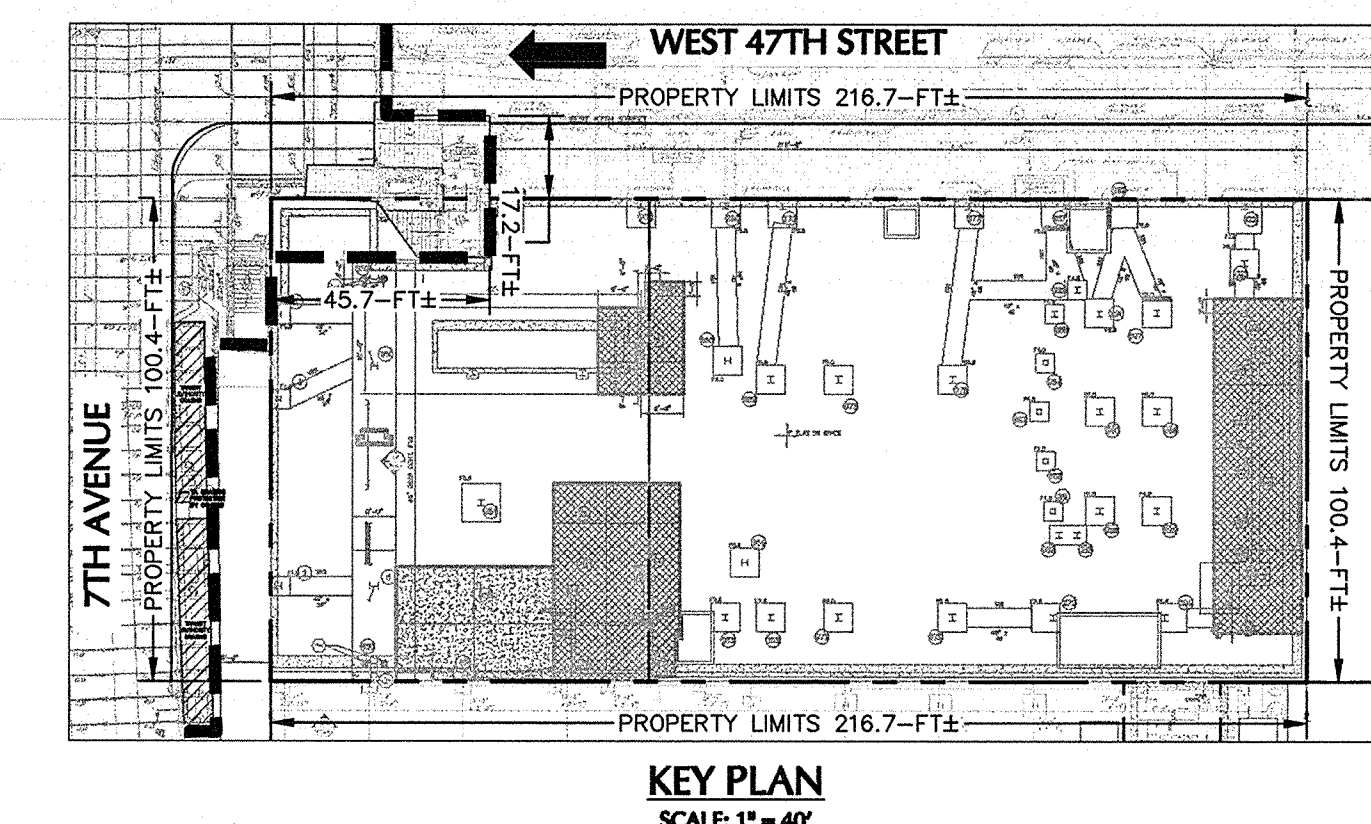
Project: **1568 Broadway**
New York, NY 10036

Sheet Title: **SUPPORT OF EXCAVATION TRANSIT AUTHORITY SECTION (2 OF 4)**

Project Number: 13649
Drawn By: SCS
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Scale: 1" = 10'
Sheet Number: **SOE-402.00**

Signature & Seal: *[Signature]*
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Sheet Number: **SOE-402.00**

NYC DOB Number: _____
Sheet: 22 of 25



Platt Byard Dorell White Architects LLP
49 West 37th Street, New York, NY 10018
212.691.2440 | pbdw.com

Severud Associates | Structural Engineer
469 Seventh Avenue, 9th Floor
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212.986.3700 | severud.com

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212.615.3600 | cosentini.com

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718.383.9340 | design2147.com

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884 Paterson Ave., East Rutherford, NJ 07073
973.776.4404 | iroselevator.com

Theater Projects Consultants | Theater Consultant
47 Water Street
South Norwalk, Connecticut 06854
203.299.0830 | theaterprojects.com

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212.691.9020 | fmsp.com

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114-A Washington Street
Norwalk, CT 06854
203.838.4167 | jaffeholden.com

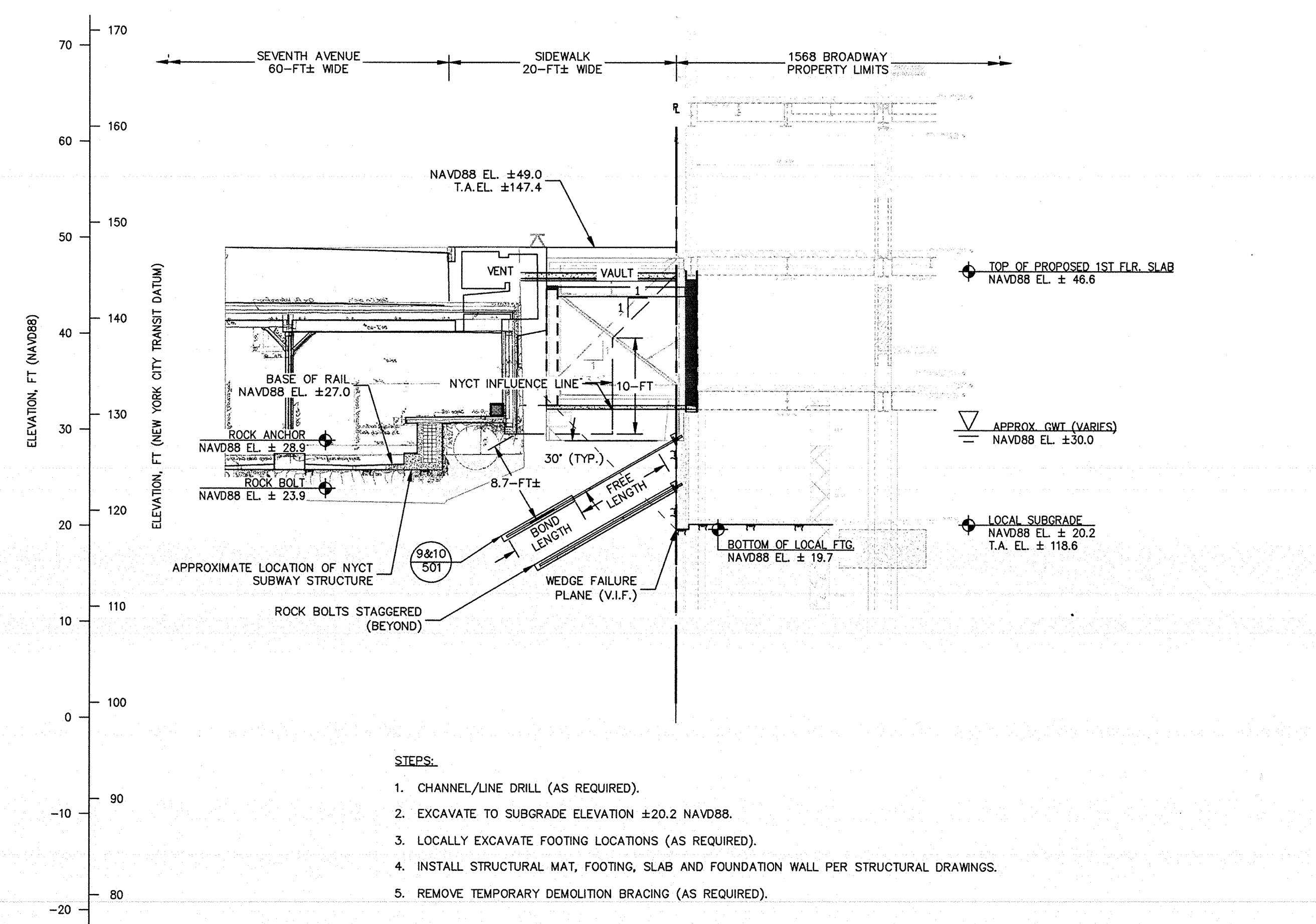
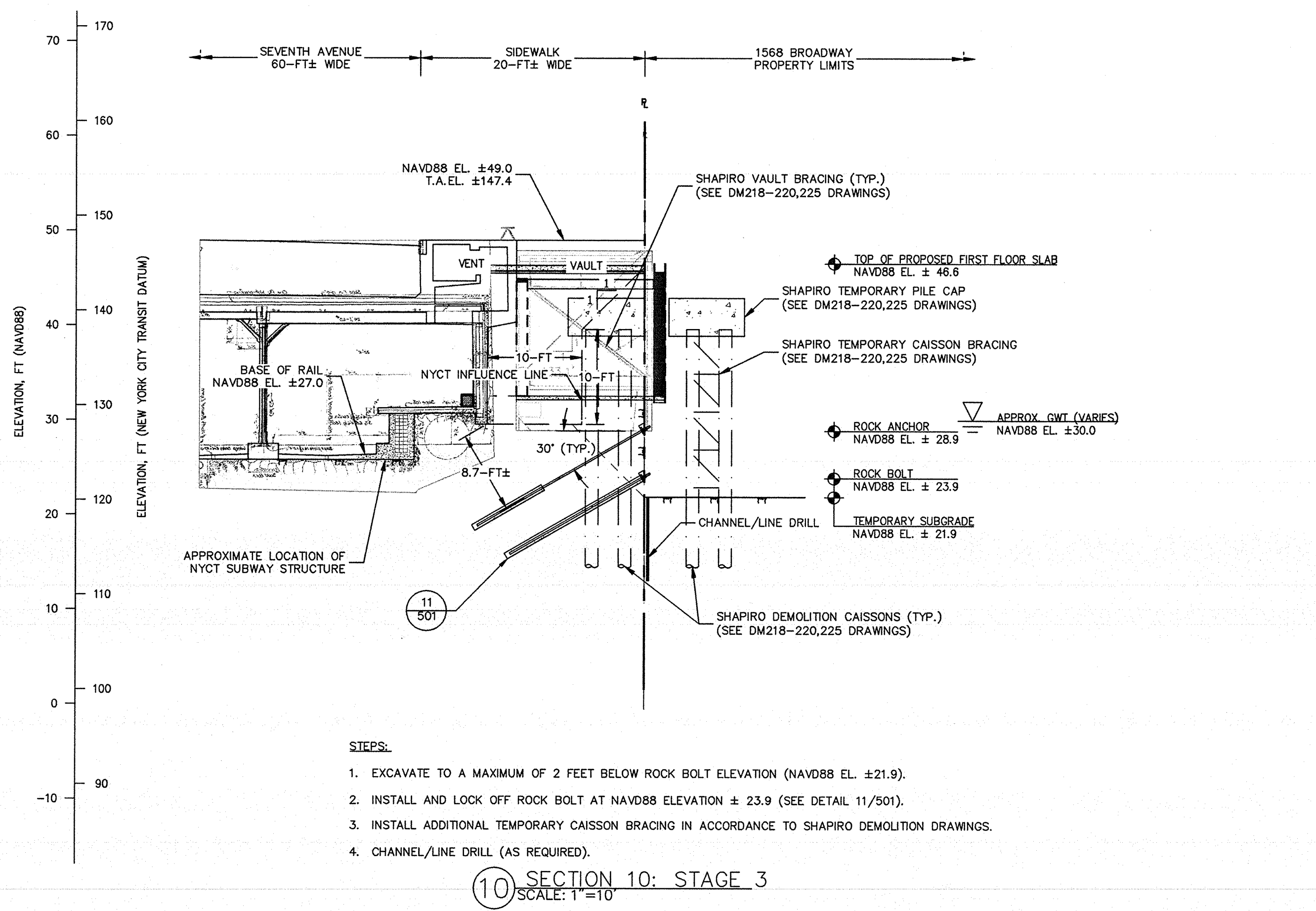
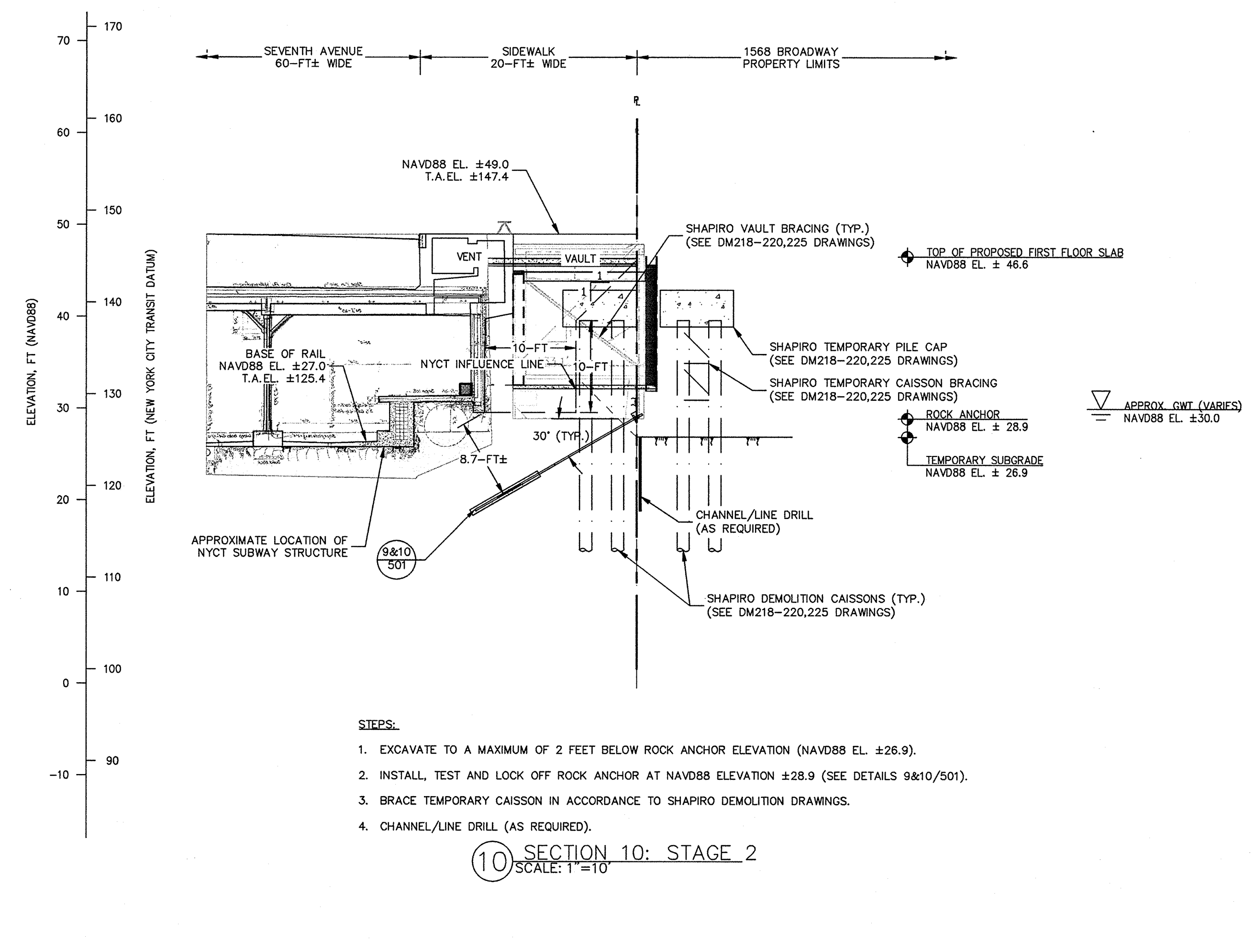
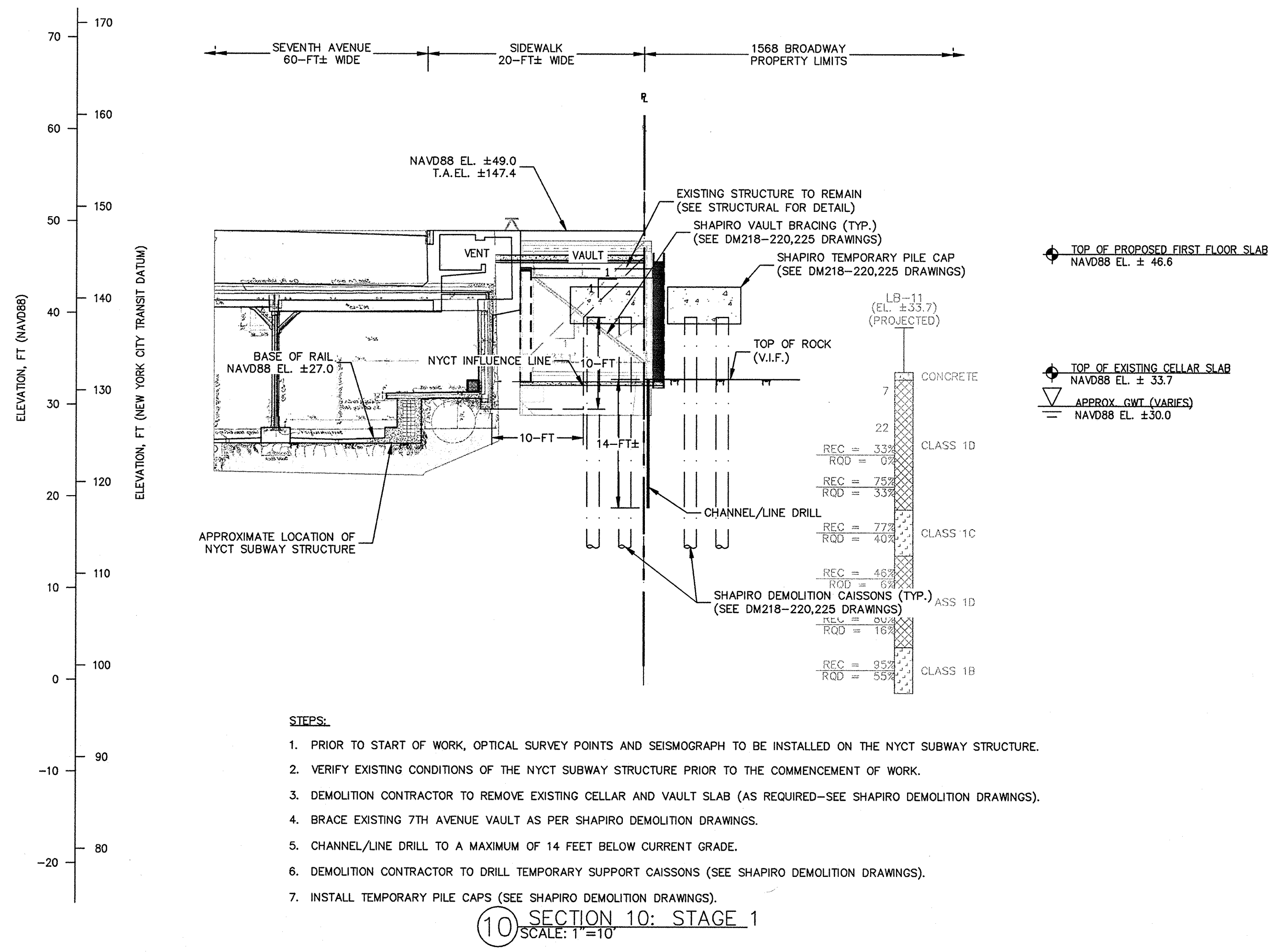
Yabu Pushelberg | Interior Design
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212.479.5400 | langan.com

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Flushing, NY 11369
718.478.3021

zeroLUX | Lighting Design
242 West 30th Street, Level 2
New York, NY 10001
212.209.1536



GENERAL NOTES:

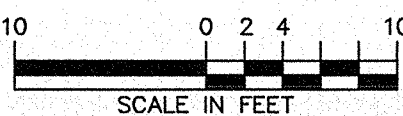
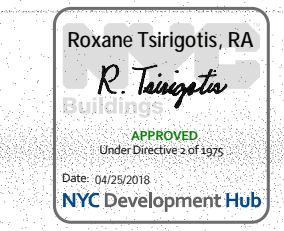
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4. EXISTING FOUNDATION INFORMATION TAKEN FROM DESIMONE STRUCTURAL DRAWINGS DATED FEBRUARY 02, 1988, LATEST REVISION JANUARY 24, 1989.

GENERAL NOTES (CONT.):

5. DEPTH AND DIMENSION OF EXISTING FOOTINGS TO BE VERIFIED IN FIELD.
6. ROCK EXCAVATION TO BE PERFORMED MINIMUM 1 FT FROM FACE OF EXISTING FOOTING.
7. PROPOSED FOUNDATION WALL THICKNESS TO BE COORDINATED WITH STRUCTURAL ENGINEER AND STRUCTURAL DRAWINGS.
8. ROCK BOLTS TO BE INSTALLED AS NEEDED.
9. UNDERGROUND UTILITIES NOT SHOWN.

GENERAL NOTES (CONT.):

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11. UPON COMPLETION OF NEW COLUMN INSTALLATION AND TRANSFERENCE OF LOAD, TEMPORARY SUPPORT CAISSON WILL BE REMOVED (REFERENCE URBAN FOUNDATION SUPPORT DRAWINGS FOR DETAIL).
12. REFER TO DEMOLITION BRACING PLANS BY HOWARD SHAPIRO.



PHASE-3: EXCAVATION AND BRACING OF CAISSONS WHILE EXCAVATION

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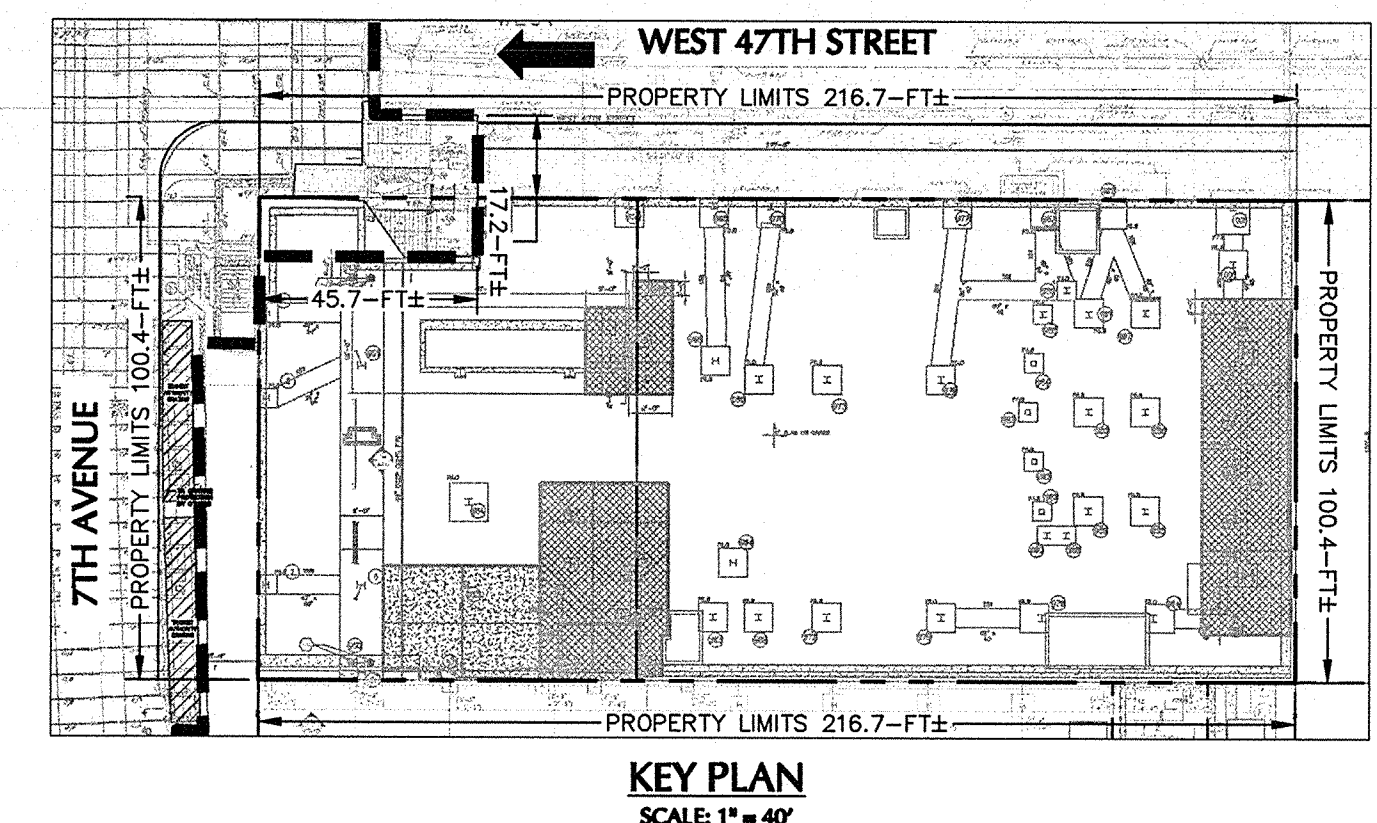
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03.13.2017	13	IN ACCORDANCE WITH NYCTA COMMENTS
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**SUPPORT OF EXCAVATION
TRANSIT AUTHORITY
SECTION (3 OF 4)**

Project Number: 13649
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NYC DOB Number: Sheet: 23 of 25



PBDW ARCHITECTS

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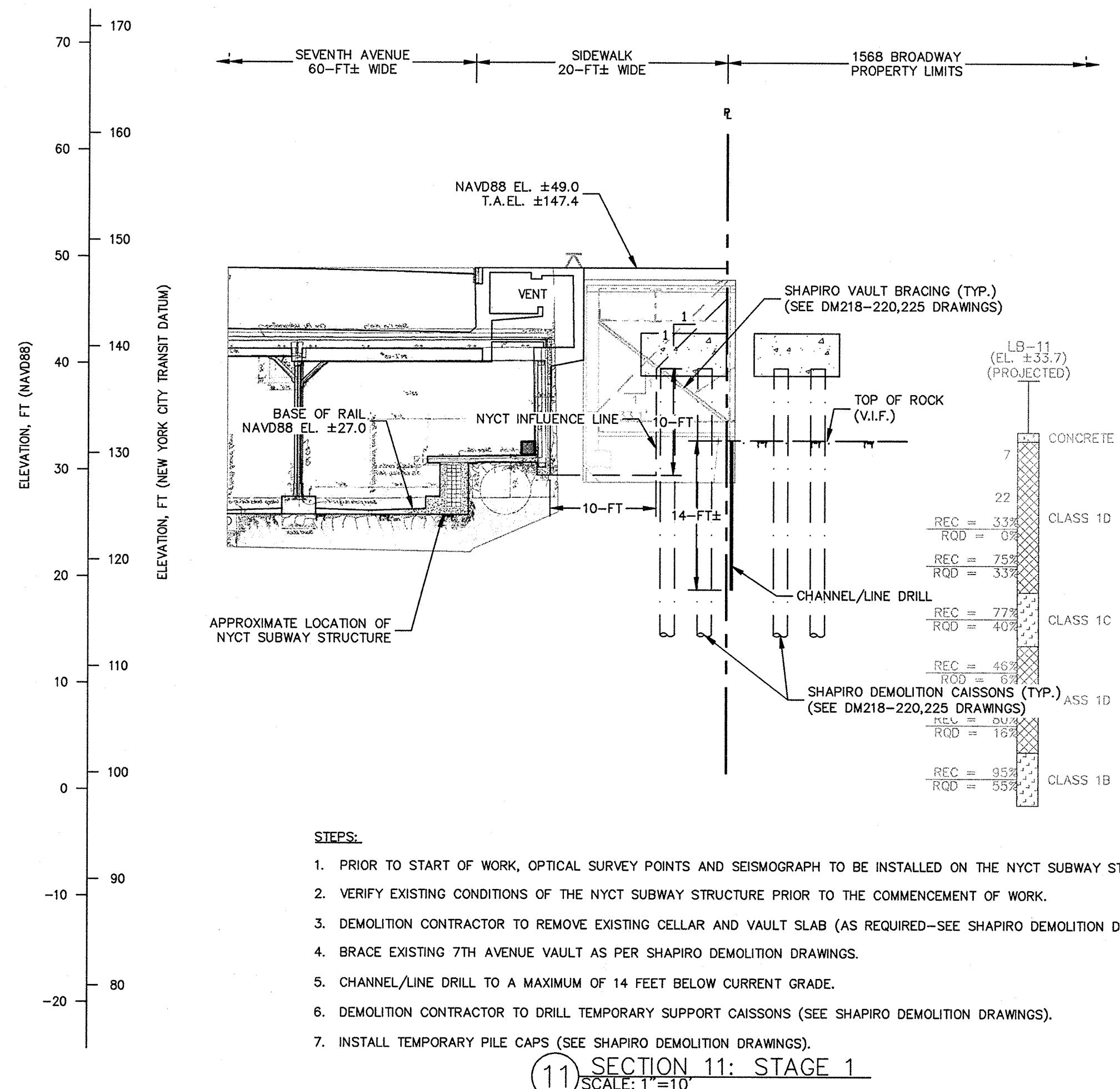
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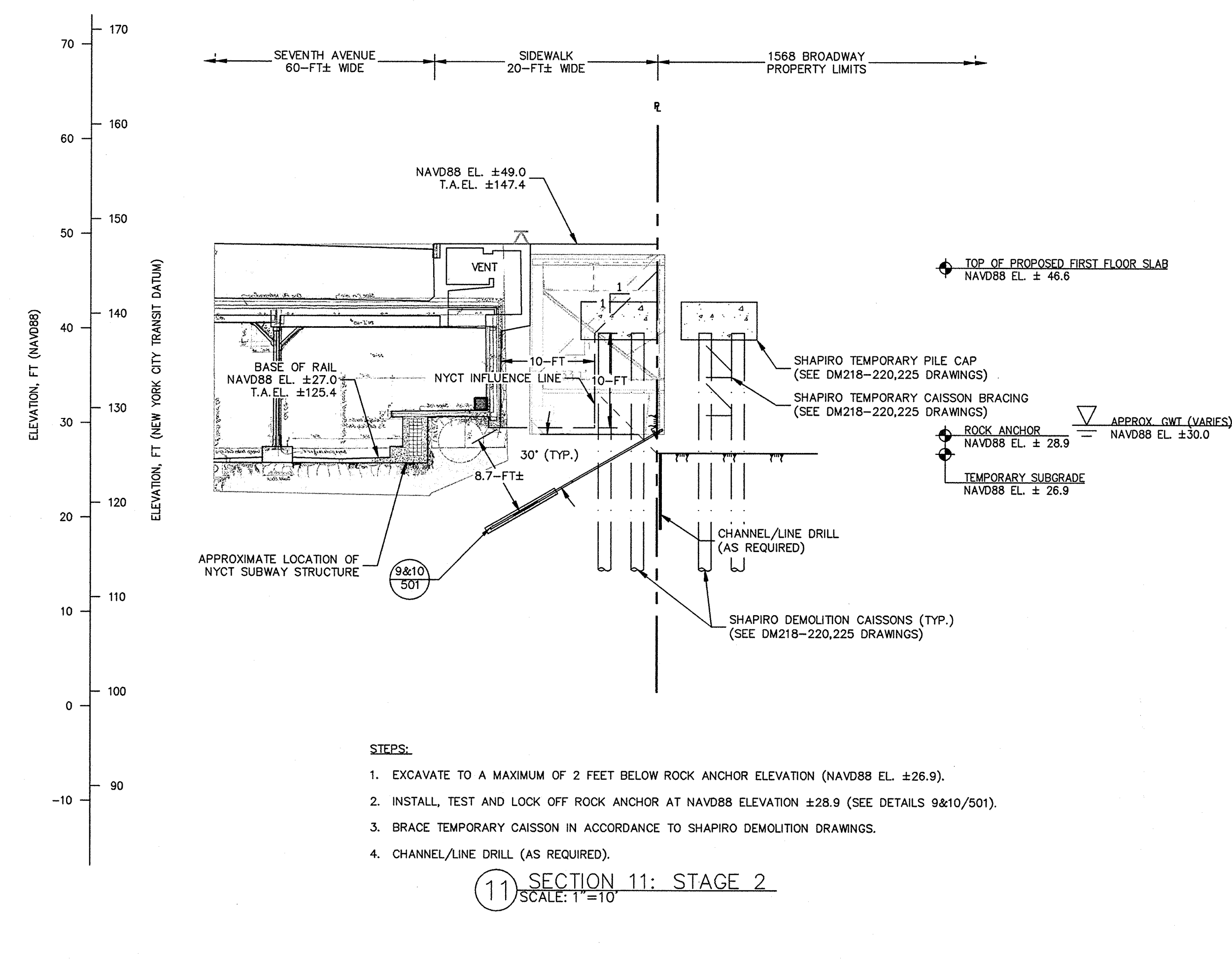
Urban Foundation Engineering | Foundation Engineer
3233 111th Street
Flushing, NY 11369
718.478.3021

zeroLUX | Lighting Design
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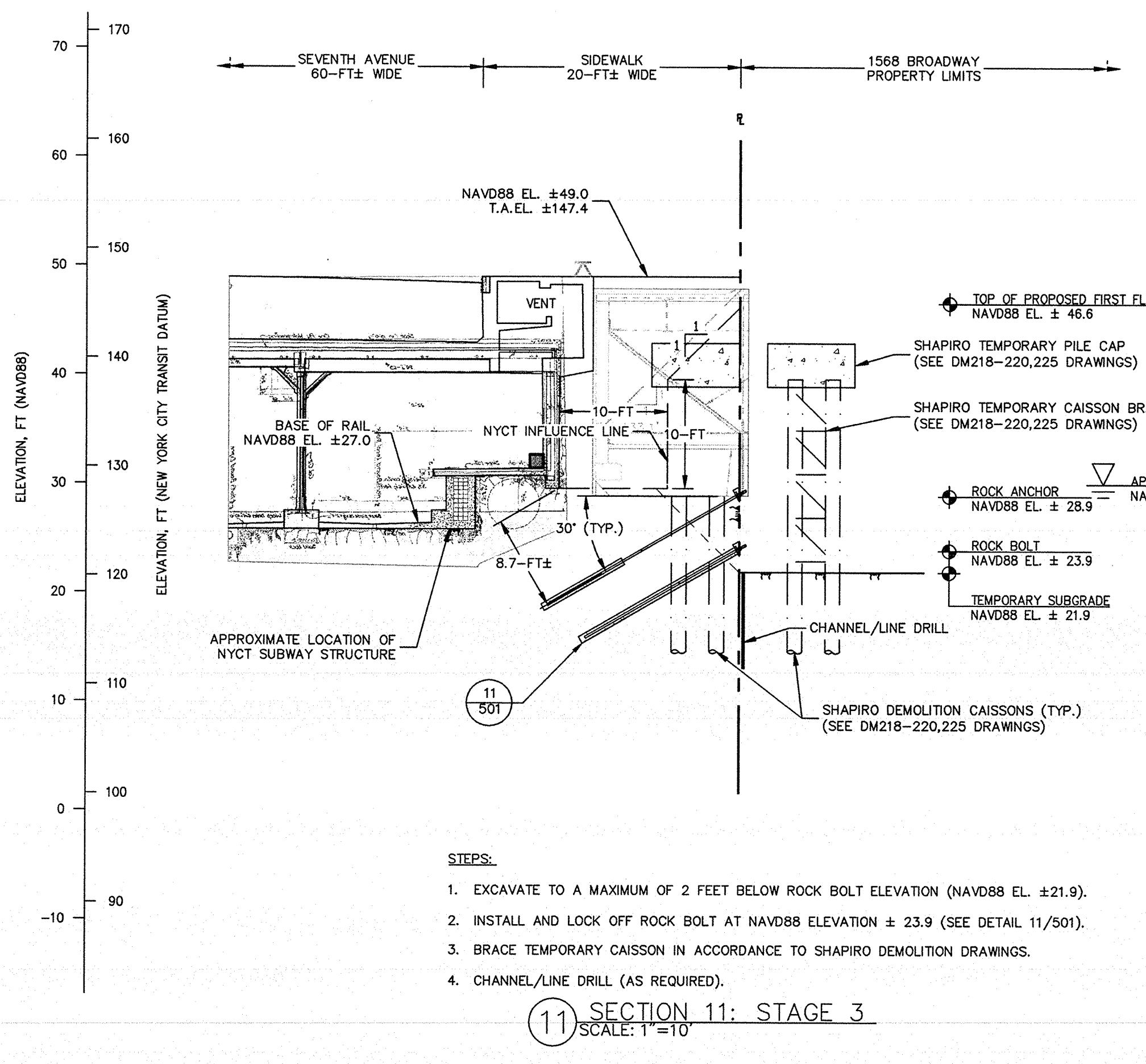
- STEPS:**
1. PRIOR TO START OF WORK, OPTICAL SURVEY POINTS AND SEISMOGRAPH TO BE INSTALLED ON THE NYCT SUBWAY STRUCTURE.
 2. VERIFY EXISTING CONDITIONS OF THE NYCT SUBWAY STRUCTURE PRIOR TO THE COMMENCEMENT OF WORK.
 3. DEMOLITION CONTRACTOR TO REMOVE EXISTING CELLAR AND VAULT SLAB (AS REQUIRED—SEE SHAPIRO DEMOLITION DRAWINGS).
 4. BRACE EXISTING 7TH AVENUE VAULT AS PER SHAPIRO DEMOLITION DRAWINGS.
 5. CHANNEL/LINE DRILL TO A MAXIMUM OF 14 FEET BELOW CURRENT GRADE.
 6. DEMOLITION CONTRACTOR TO DRILL TEMPORARY SUPPORT CAISSONS (SEE SHAPIRO DEMOLITION DRAWINGS).
 7. INSTALL TEMPORARY PILE CAPS (SEE SHAPIRO DEMOLITION DRAWINGS).

11 SECTION 11: STAGE 1
SCALE: 1"=10'



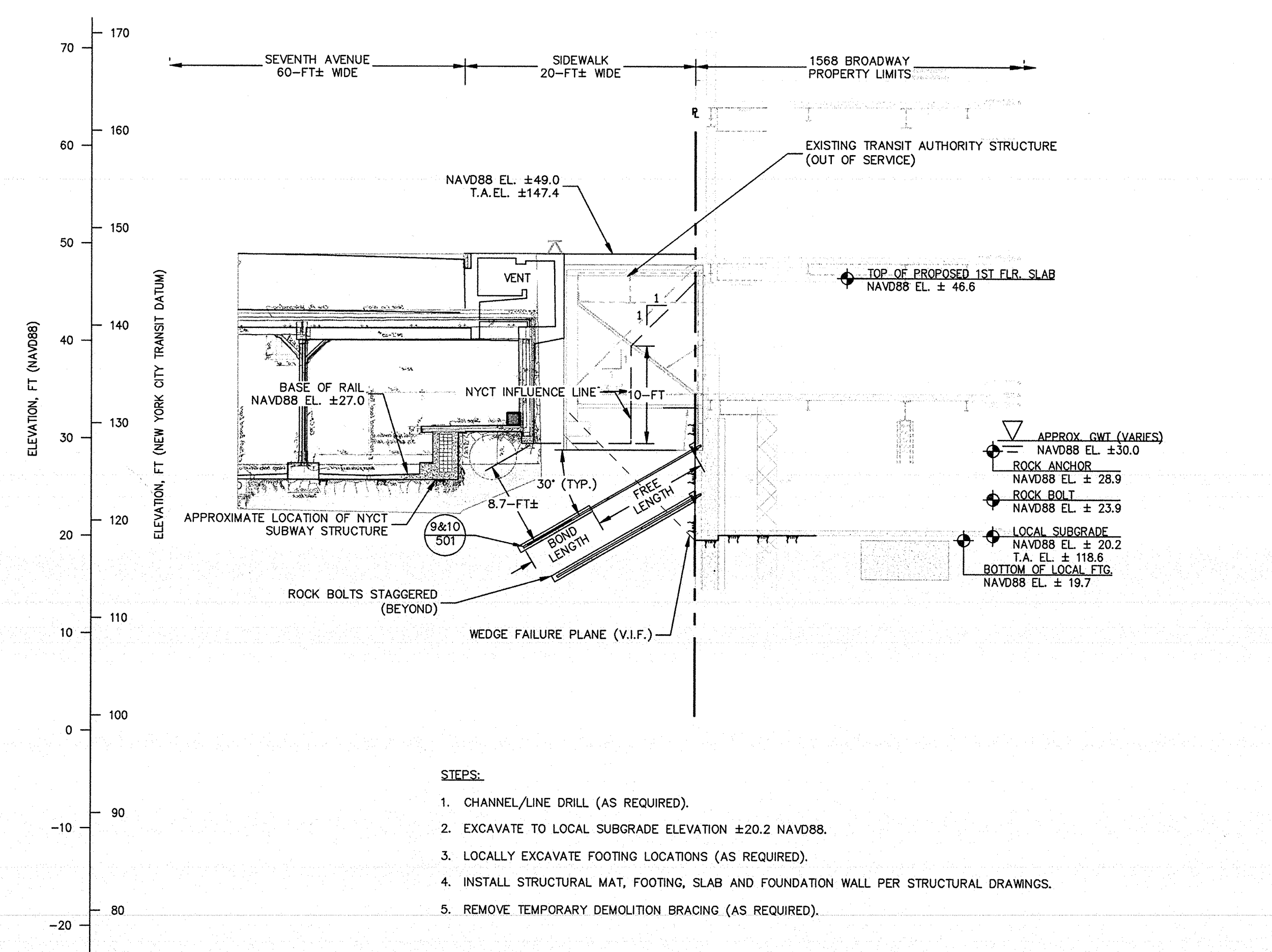
- STEPS:**
1. EXCAVATE TO A MAXIMUM OF 2 FEET BELOW ROCK ANCHOR ELEVATION (NAVD88 EL. ±28.9).
 2. INSTALL, TEST AND LOCK OFF ROCK ANCHOR AT NAVD88 ELEVATION ±28.9 (SEE DETAILS 9&10/501).
 3. BRACE TEMPORARY CAISSON IN ACCORDANCE TO SHAPIRO DEMOLITION DRAWINGS.
 4. CHANNEL/LINE DRILL (AS REQUIRED).

11 SECTION 11: STAGE 2
SCALE: 1"=10'



- STEPS:**
1. EXCAVATE TO A MAXIMUM OF 2 FEET BELOW ROCK BOLT ELEVATION (NAVD88 EL. ±21.9).
 2. INSTALL AND LOCK OFF ROCK BOLT AT NAVD88 ELEVATION ± 23.9 (SEE DETAIL 11/501).
 3. BRACE TEMPORARY CAISSON IN ACCORDANCE TO SHAPIRO DEMOLITION DRAWINGS.
 4. CHANNEL/LINE DRILL (AS REQUIRED).

11 SECTION 11: STAGE 3
SCALE: 1"=10'



- STEPS:**
1. CHANNEL/LINE DRILL (AS REQUIRED).
 2. EXCAVATE TO LOCAL SUBGRADE ELEVATION ±20.2 NAVD88.
 3. LOCALLY EXCAVATE FOOTING LOCATIONS (AS REQUIRED).
 4. INSTALL STRUCTURAL MAT, FOOTING, SLAB AND FOUNDATION WALL PER STRUCTURAL DRAWINGS.
 5. REMOVE TEMPORARY DEMOLITION BRACING (AS REQUIRED).

11 SECTION 11: FINAL
SCALE: 1"=10'

GENERAL NOTES:

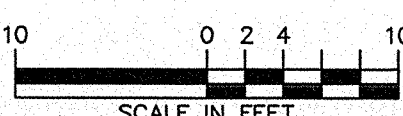
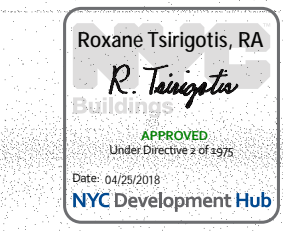
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GENERAL NOTES (CONT.):

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9. UNDERGROUND UTILITIES NOT SHOWN.

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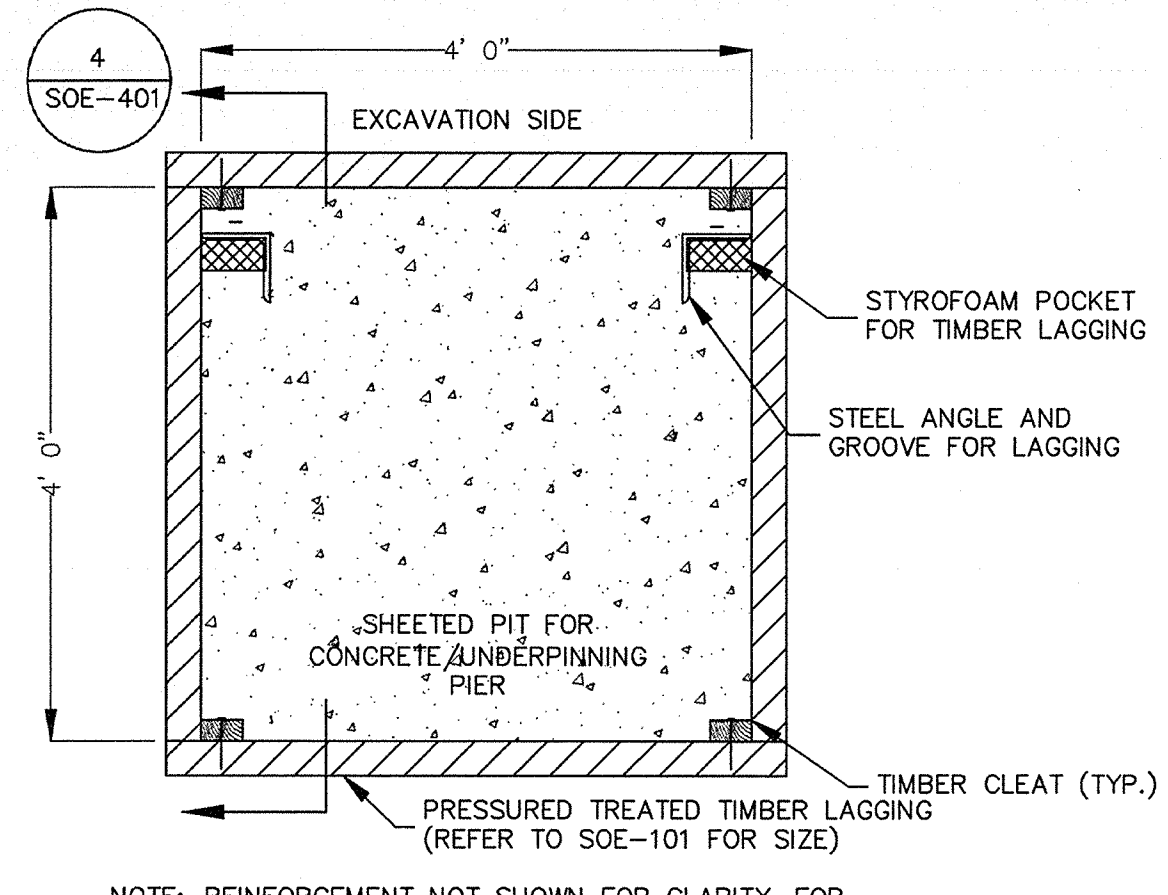
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02.28.2017	12	ISSUED FOR 50% CDs
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Date: No.: Description:
Project:
1568 Broadway
New York, NY 10036

**SUPPORT OF EXCAVATION
TRANSIT AUTHORITY
SECTION (4 OF 4)**

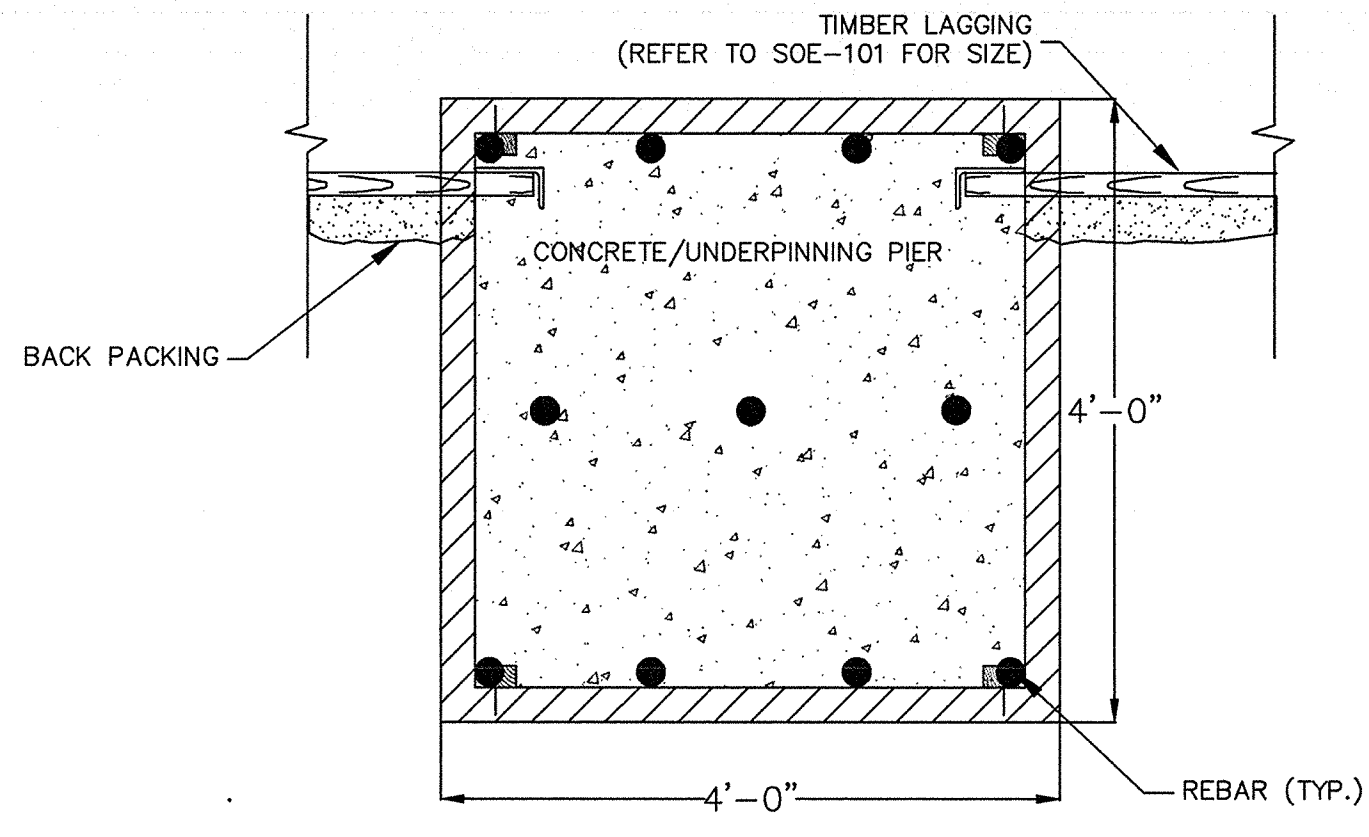
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Signature & Seal:
[Signature]
Professional Engineer
State of New York
No. 13649

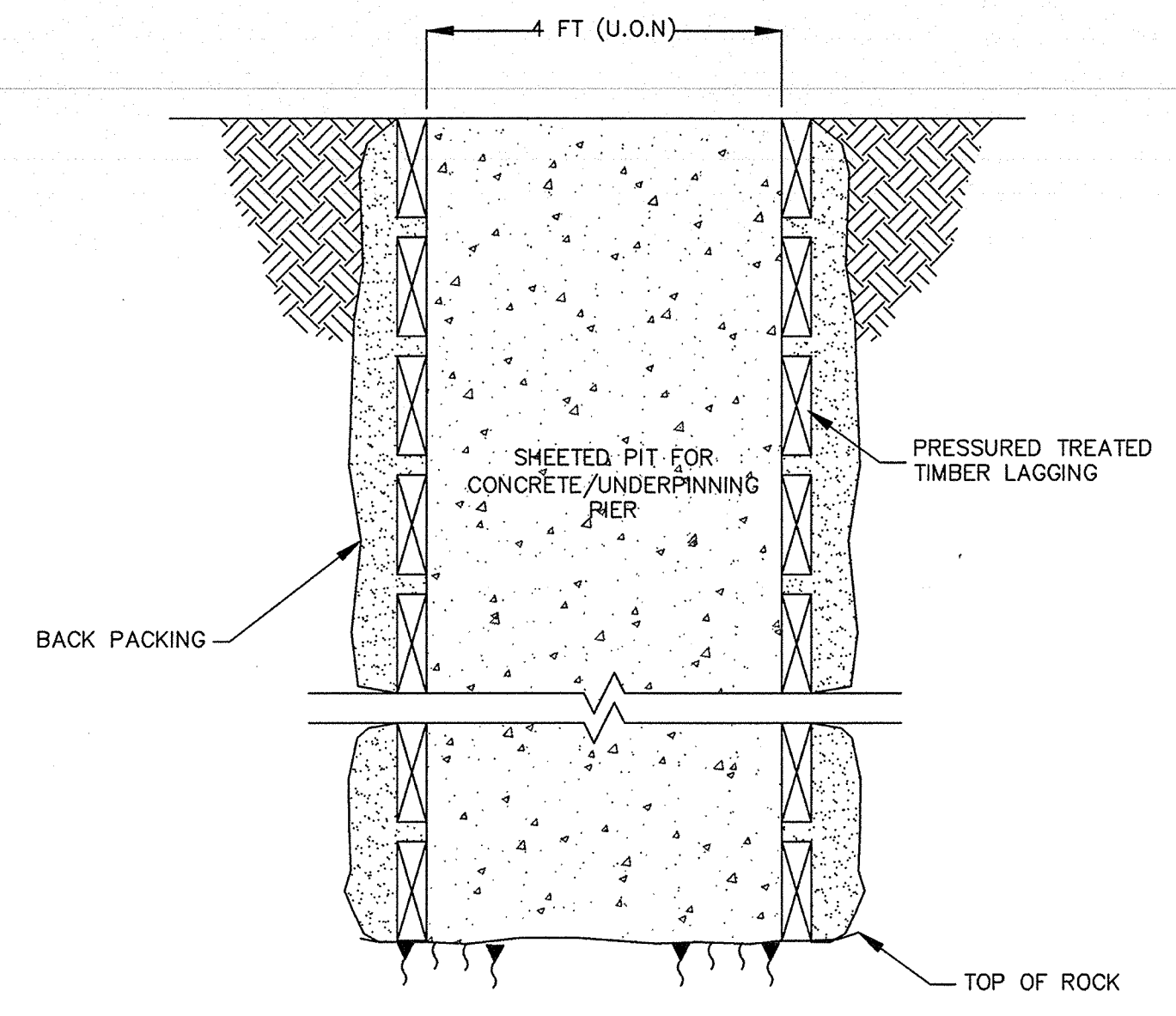


NOTE: REINFORCEMENT NOT SHOWN FOR CLARITY. FOR REINFORCING SEE DETAILS 2 AND 6 FOR CONCRETE PIERS; AND DETAILS 6, 12, 13 AND 15 FOR UNDERPINNING PIERS

1 UNDERPINNING PIER PLAN
N.T.S.

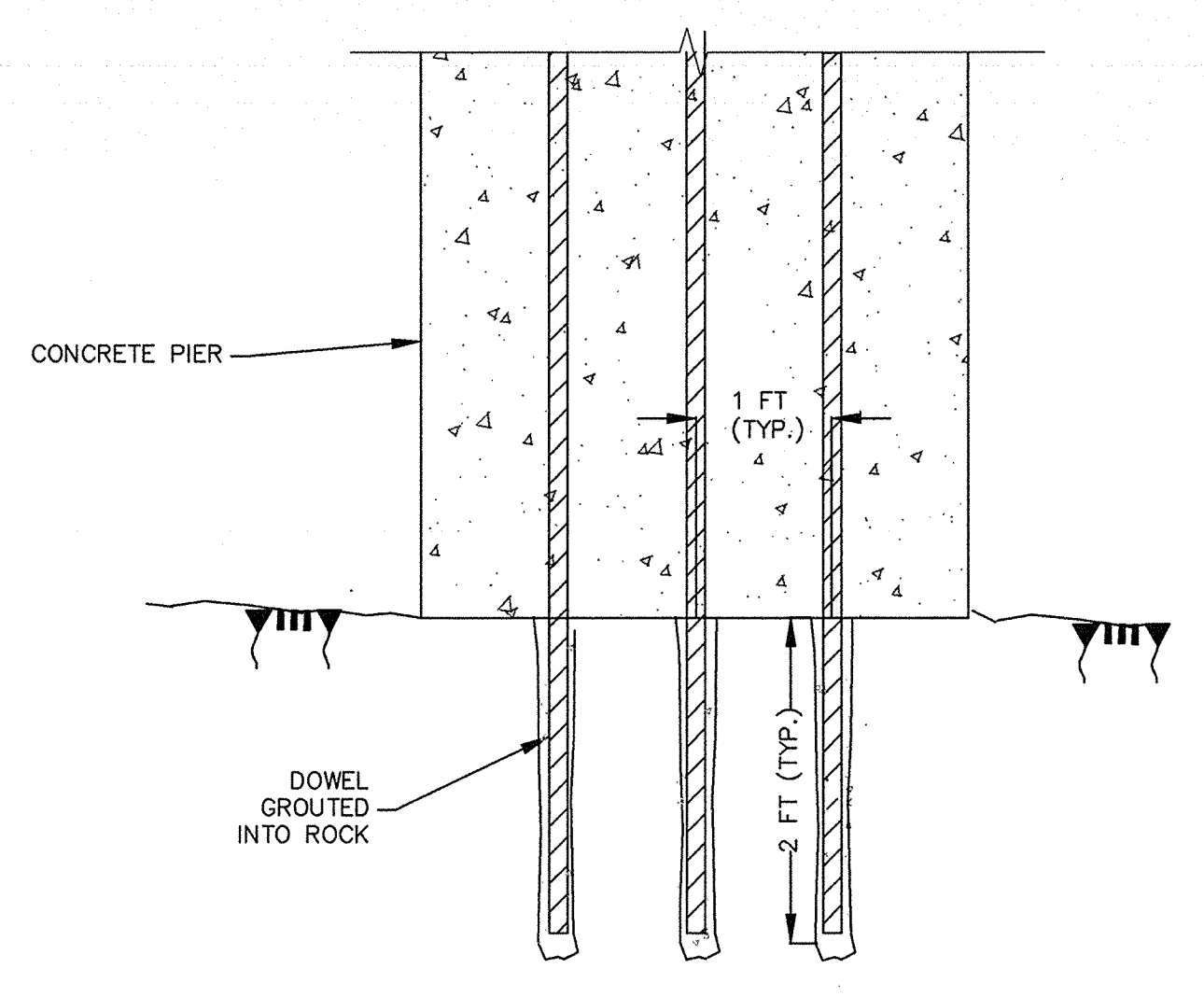


2 UNDERPINNING PIER PLAN REINFORCEMENT (TYP.)
N.T.S.



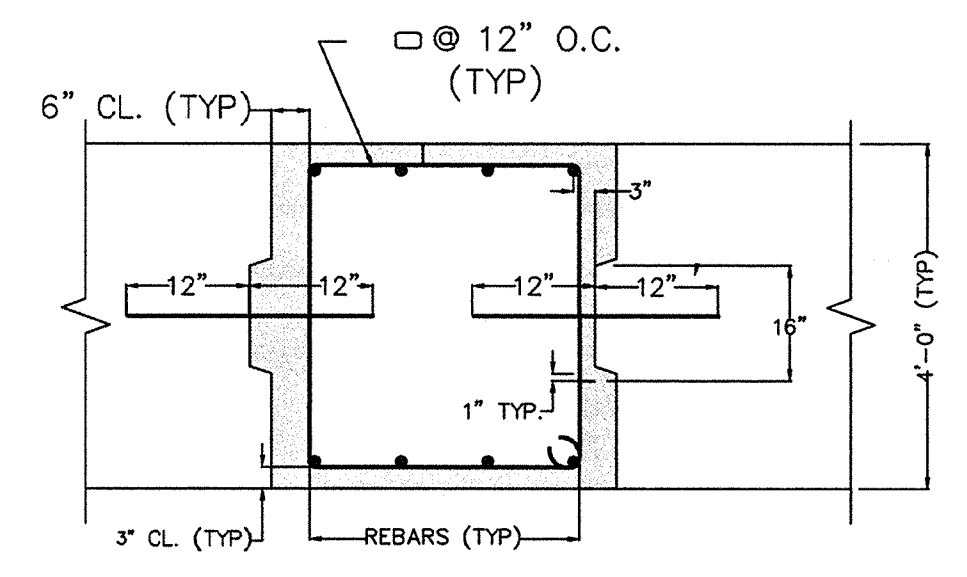
NOTE:
1. REINFORCEMENT NOT SHOWN FOR CLARITY. FOR REINFORCING SEE DETAILS 2, 4 AND 5.
2. THE DIMENSION OF THE UNDERPINNING PIERS IS NOT TO EXCEED 3 FEET IF THE FOUNDATIONS OF THE EXISTING BUILDING ARE RUBBLE FOUNDATIONS.
3. LEVEL ROCK BEARING SURFACE PRIOR TO PLACEMENT OF REINFORCEMENT AND CONCRETE.

3 UNDERPINNING PIER SECTION
N.T.S.



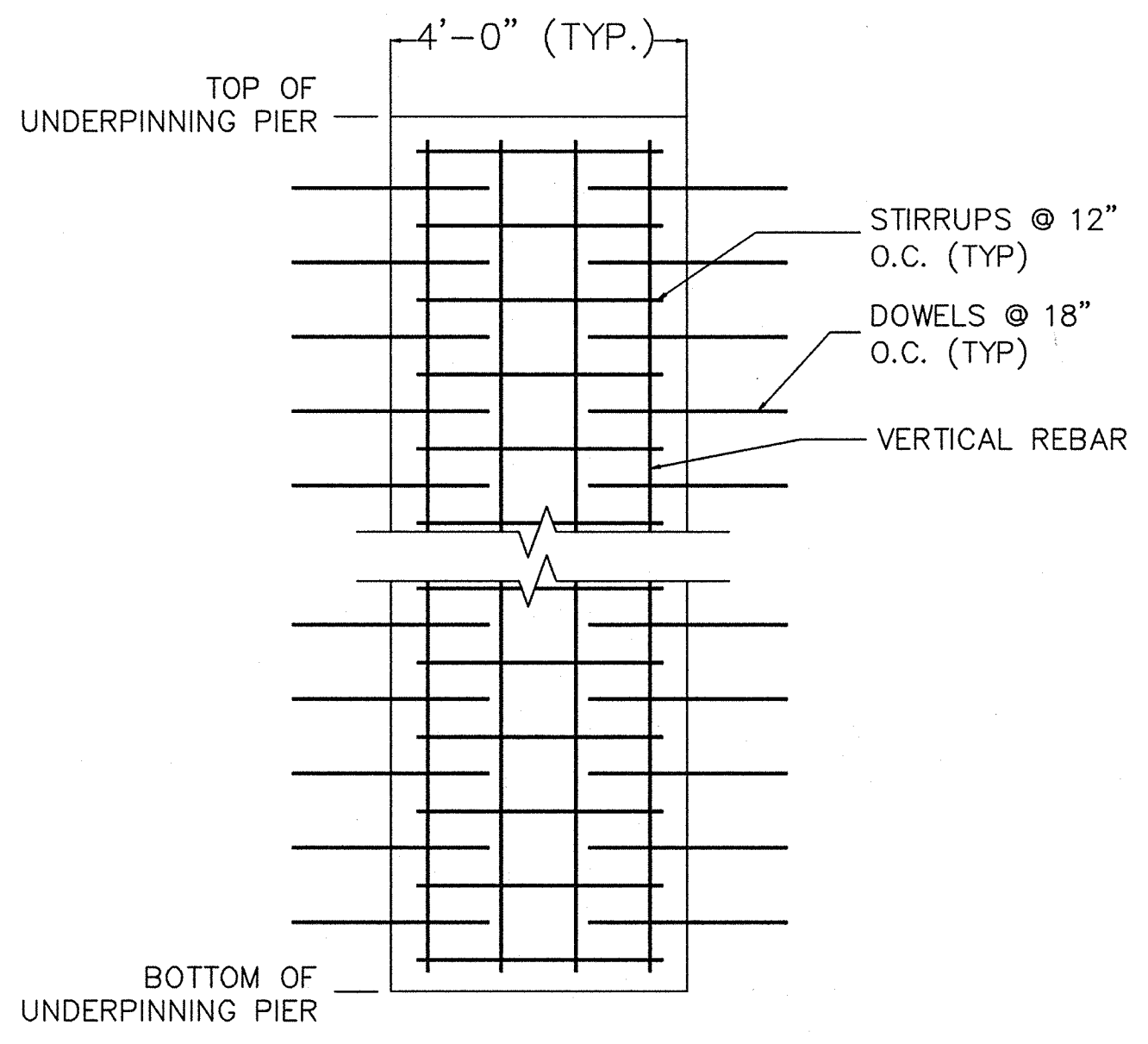
NOTE: TIEBACKS/TIEDOWNS NOT SHOWN FOR CLARITY

4 UNDERPINNING PIER TO TOP OF ROCK CONNECTION (TYP.)
N.T.S.

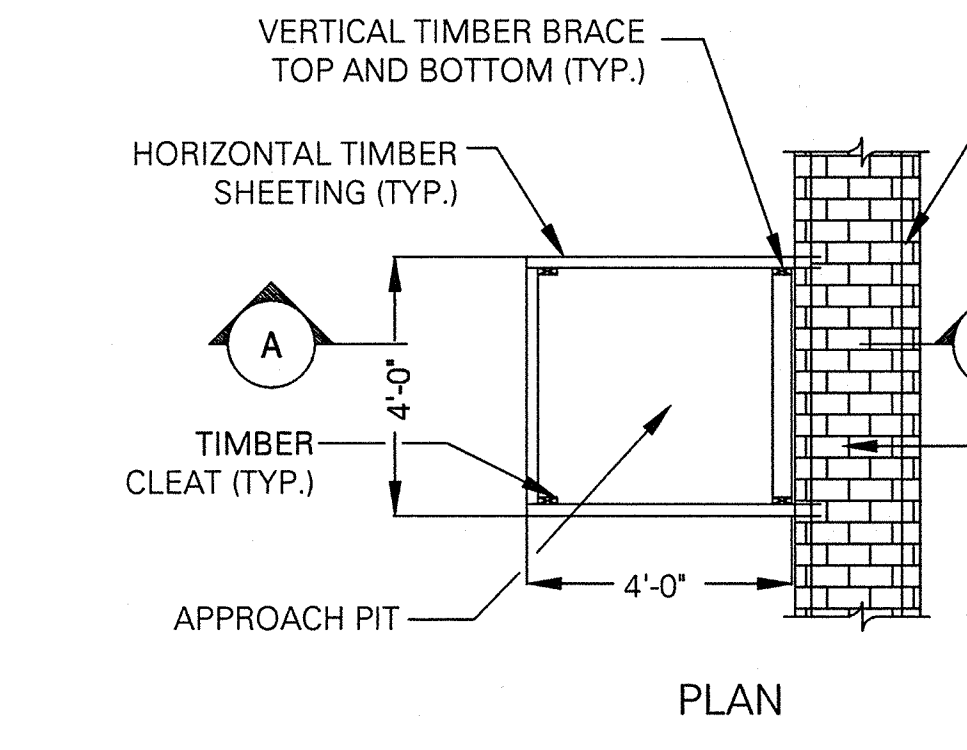


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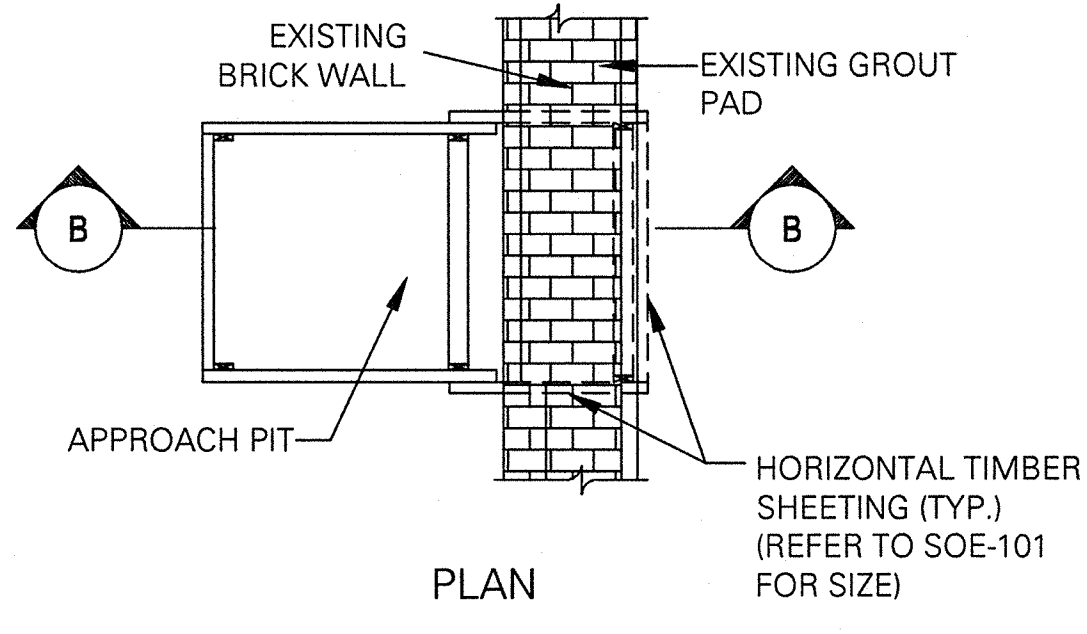
5 DETAIL - TYPICAL HORIZONTAL UNDERPINNING CONNECTION
N.T.S.



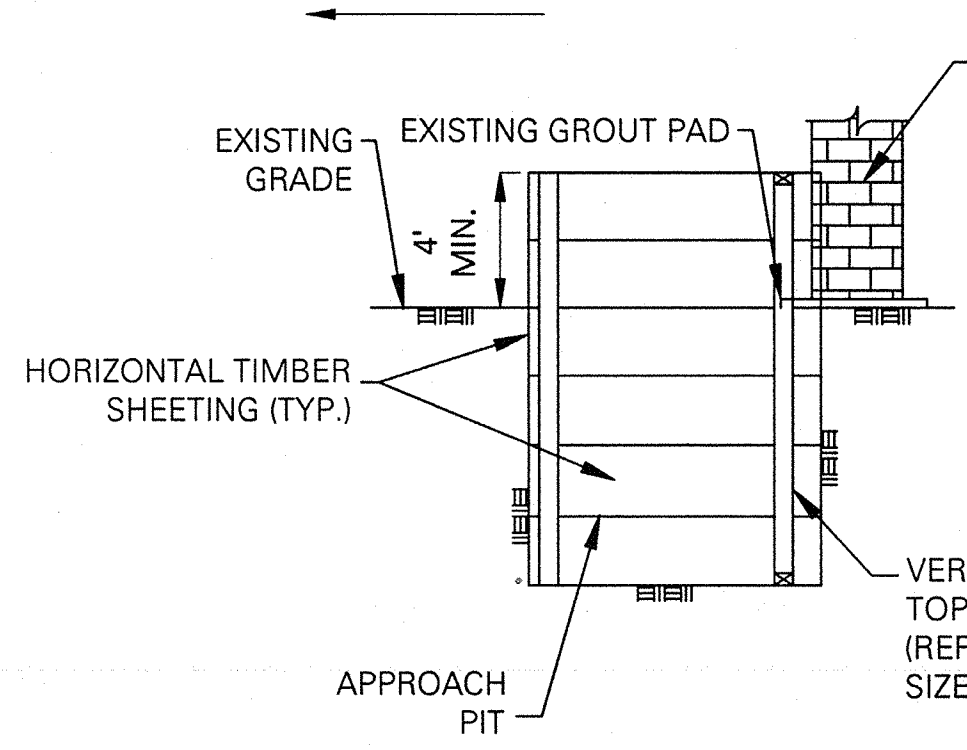
6 DETAIL - TYPICAL UNDERPINNING REINFORCING
N.T.S.



SECTION A-A
STAGE 1



8 DETAIL - STEEL WEDGE
N.T.S.



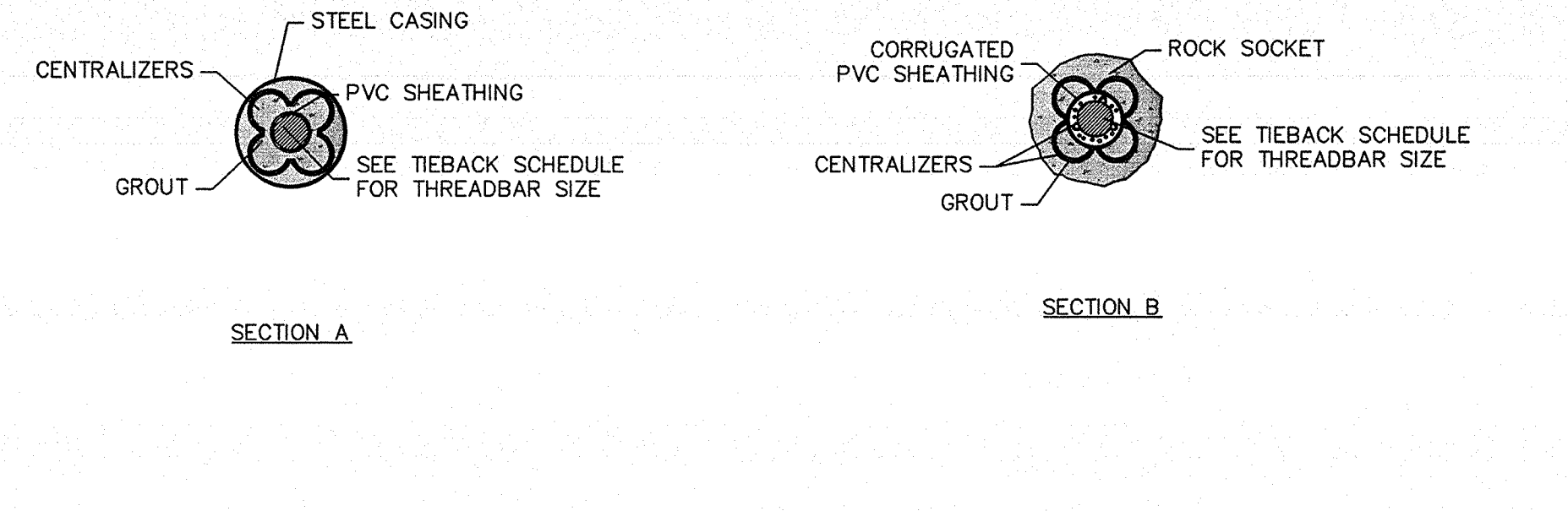
9 TYPICAL TIEBACK SECTION AT NORTH AND SOUTH WALLS
N.T.S.

TIE BACK ANCHOR GENERAL NOTES:

- ANCHORS SHALL BE SAS STRESSTEEL BAR (OR EQUIVALENT THREAD BAR) WITH "SINGLE CORROSION" PROTECTION.
- ALL ANCHORS SHALL BE SAS STRESSTEEL (OR EQUIVALENT THREAD BAR), GRADE 150 KSI, CONFORMING TO ASTM A-722.
- STRESSTEEL BARS SHALL BE ENCAPSULATED WITH HIGH STRENGTH PVC SHEATHING (COMPRESSIVE STRENGTH=7000 psi)
- PLATES SHALL CONFORM TO ASTM A-36.
- ANCHOR NUTS & COUPLERS SHALL BE CAPABLE OF DEVELOPING 100% OF THE ULTIMATE STRENGTH OF STRESSTEEL.
- CARE MUST BE TAKEN NOT TO DAMAGE THE STRESSTEEL TENDONS. KEEP THE STRESSTEEL FREE OF DIRT OR OTHER DELETERIOUS SUBSTANCES.
- DO NOT WELD IN THE VICINITY OF THE HIGH STRENGTH BARS.
- DO NOT USE ANCHORS AS A GROUND FOR WELDING.
- 10% OF ANCHORS SHALL BE PERFORMANCE TESTED, ALL OTHERS SHALL BE PROOF TESTED USING A CALIBRATED CENTER HOLE JACK.
- PERFORMANCE AND PROOF TESTING SHALL BE AS FOLLOWS: PERFORMANCE TEST: AL .25P
AL .25P, .50P
AL .25P, .50P, .75P
AL .25P, .50P, .75P, 1.00P
AL .25P, .50P, .75P, 1.00P, 1.20P
AL .25P, .50P, .75P, 1.00P, 1.20P, 1.33P

HOLD 1.33P FOR CREEP TEST. RECORD MOVEMENTS USING A DIAL INDICATOR CAPABLE OF READING INCREMENTS OF .001". RECORD READINGS AT 0.1, 2, 3, 4, 5, 6, AND 10 MINUTES. RELEASE TO TRANSFER LOAD AND LOCK OFF ANCHOR NUT.
PROOF TEST: AL .25P, .50P, .75P, 1.00P, 1.20P, 1.33P HOLD 1.33P FOR CREEP TEST. RECORD MOVEMENTS USING A DIAL INDICATOR CAPABLE OF READING INCREMENTS OF .001". RECORD READINGS AT 0.1, 2, 3, 4, 5, 6 AND 10 MINUTES. RELEASE TO TRANSFER LOAD AND LOCK OFF ANCHOR NUT.

11. CONTRACTOR SHALL SUBMIT ANCHOR SHOP DRAWING FOR APPROVAL PRIOR TO COMMENCING ANCHOR INSTALLATION. SHOP DRAWING SHALL CONTAIN ANCHOR DETAILS, INSTALLATION & TESTING PROCEDURES.



SUPPORT OF EXCAVATION: ROCK ANCHORS						
	DESIGN LOAD (KIPS)	ANCHOR DIAMETER (INCHES)	GRADE OF STEEL (KSI)	FREE LENGTH (FEET)	BOND LENGTH (FEET)	ANGLE (DEGREES)
NORTH	180	1 3/4	150	10	10	20
SOUTH	140	1 3/4	150	10	10	15
EAST	234	2 1/4	150	10	12	20
WEST	114	1 3/8	150	12	8	30

ROCK ANCHOR/BOLTS LENGTHS ABOVE ARE SUBJECT TO INCREASE BASED ON FIELD CONDITIONS ENCOUNTERED DURING EXCAVATION.

10 ROCK ANCHOR / ROCK BOLT CHART
N.T.S.

IN PROGRESS DRAFT
NOT FOR CONSTRUCTION

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Sheet Title:

SUPPORT OF EXCAVATION
DETAILS
(1 OF 1)

Project Number: 13649	Signature & Seal:
Drawn By: SCS	
Checked By: LEF	
Scale: AS NOTED	
Sheet Number: SOE-501.00	