

GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THE NEW YORK CITY BUILDING CODE & OSHA REQUIREMENTS. CONTRACTOR TO PROVIDE ALL NECESSARY SAFETY MEANS TO PROTECT ALL PERSONS, ADJACENT AND EXISTING PROPERTIES, ETC. AS REQUIRED.
- BEFORE COMMENCING WORK, THE CONTRACTOR SHALL ASCERTAIN THE LOCATIONS AND PROJECT ALL ADJACENT BUILDINGS AND UTILITIES TO BE AFFECTED BY THE EXCAVATION WORK. THE CONTRACTOR SHALL NOTIFY AND OBTAIN PERMITS FROM GOVERNING AGENCIES, INCLUDING BUT NOT LIMITED TO DOB, DEP, DOT, COMMISSION, ETC. AS NECESSARY.
- BEFORE COMMENCING WORK, CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN FIELD. COORDINATE SITE DESIGN WITH ARCHITECTURAL, STRUCTURAL AND OTHER APPLICABLE DRAWINGS, AND REPORT ANY DISCREPANCIES TO THE DESIGN ARCHITECTS FOR EVALUATION.
- CONTRACTOR SHALL NOTIFY NYC DOB 24 TO 48 HOURS BEFORE COMMENCEMENT OF WORK.
- NOTICE TO ADJACENT PROPERTY OWNERS SHALL BE PROVIDED AS PER BUILDING CODE REQUIREMENT.
- PRE-CONSTRUCTION INSPECTION OF THE ADJACENT BUILDINGS AND MONITORING SURVEYS SHALL BE CONDUCTED PER NYC BC CHAPTER 33 REQUIREMENT WHEN PERMISSION TO ENTER ADJACENT PROPERTY HAS BEEN OBTAINED. A PHYSICAL EXAMINATION OF INTERIOR OF SUCH PROPERTY SHALL ALSO BE CONDUCTED BY THE PERSON INITIATING THE CONSTRUCTION OPERATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- A SPECIAL INSPECTION AGENCY SHALL BE RETAINED BY THE OWNER TO PERFORM ALL REQUIRED SPECIAL INSPECTIONS AS PER NYC BUILDING CODE REQUIREMENTS.

EVALUATION NOTES:

- THE PERIMETER OF THE GENERAL EXCAVATION SHALL BE RETAINED BY A SOIL RETENTION SYSTEM (WHERE APPLICABLE), THE INSTALLATION, MAINTENANCE AND REMOVAL (WHERE REQUIRED) SHALL BE THE COMPLETE AND SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT DAMAGE AND MINIMIZE SETTLEMENT OF EXISTING OR NEW CONSTRUCTION INSIDE AND OUTSIDE THE PROJECT LIMITS. ANY DAMAGE TO NEW OR EXISTING CONSTRUCTION INSIDE OR OUTSIDE THE PROJECT LIMITS CAUSED BY CONSTRUCTION TECHNIQUES OR MOVEMENTS OF THE SOIL RETENTION SYSTEM IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE SOIL RETENTION SYSTEM TO ASSIST THE OWNER IN THE APPROVAL PROCESS FOR THE RETENTION SYSTEM. IF SO REQUIRED, A SPECIAL INSPECTION AGENCY SHALL BE RETAINED BY THE OWNERS TO PERFORM ALL REQUIRED SPECIAL INSPECTIONS.
- THE CONTRACTOR SHALL CORROBORATE ALL ELEMENTS OF THE SOIL RETENTION SYSTEM WITH ALL ELEMENTS OF THE FOUNDATION BUILDING.
- PRIOR TO ANY EXCAVATION OR INSTALLATION OF ELEMENTS OF THE SOIL RETENTION SYSTEM, THE CONTRACTOR SHALL ESTABLISH SURVEY POINTS AROUND THE PERIMETER OF THE AREA TO BE EXCAVATED AND OTHER POINTS UP TO 200 FEET BEYOND THE PERIMETER. THESE POINTS SHALL BE SURVEYED FOR VERTICAL AND HORIZONTAL MOVEMENT AT FREQUENT INTERVALS DURING ACTUAL EXCAVATION WORK. DURING EACH SUBSEQUENT PHASE OF THE WORK AND SUBMITTED TO THE ARCHITECT FOR INFORMATION.
- ALL EXCAVATION SHALL BE BASED ON ENGINEERED DRAWINGS PREPARED BY THE CONTRACTOR INCLUDING PLANS AND SECTIONS OF EXCAVATION SEQUENCES. THE EXCAVATION SEQUENCES SHALL BE CONTROLLED TO MATCH THE REQUIREMENTS OF THE DESIGN OF THE SOIL RETENTION SYSTEM AND TO PERMIT MONITORING OF WALL AND GROUND MOVEMENTS.
- THE GENERAL EXCAVATION ACROSS THE SITE SHALL NOT EXCEED DEEPER THAN THE SLAB-ON-GRADE SUBGRADE ELEVATION. THE EXCAVATIONS FOR FOOTINGS, GRADE BEAMS, PILE CAPS, LINTS, PITS, SLABS, ETC. SHALL BE EXCAVATED ON AN INDIVIDUAL, LOCALIZED BASIS DOWN FROM THE SLAB-ON-GRADE SUBGRADE LEVEL.
- ALL EXCAVATION BELOW THE SLAB LEVEL REQUIRED FOR PITS SHALL BE RETAINED BY LOCALIZED SOIL RETENTION SYSTEMS AS MAY BE NECESSARY BASED ON A DESIGN USING APPROPRIATED EARTH AND HYDRAULIC PRESSURES AND OTHER CONSTRUCTION LOADINGS.
- THE CONTRACTOR SHALL PROVIDE POSITIVE PROTECTION (MATS/SHEET COVERS) FOR ALL EXCAVATION SLOPES TO PROTECT SLOPES FROM INSTABILITY AND DETRIORATION DUE TO RAIN, WIND OR SNOW/ICE.
- THE CONTRACTOR SHALL PROVIDE SURFACE DRAINAGE CHANNELS AND SLUPS AND SLUMP PUMPS TO PROTECT ALL EXCAVATIONS FROM FLOODING, FLOODING OF ANY EXCAVATION AFTER APPROVAL OF THE SUBGRADE WILL BE CAUSE FOR COMPLETE REPERATION AND APPROVAL OF THE SUBGRADE.
- PROVIDE A DRAINAGE PANEL AGAINST THE OUTSIDE FACE OF THE FOUNDATION WALL AT LOCATIONS INDICATED ON THE ARCHITECTURAL DRAWINGS.
- THE OWNER'S SOIL TESTING LABORATORY SHALL REVIEW AND MONITOR THE EXCAVATION, DEWATERING AND SOIL RETENTION SYSTEMS. THE CONTRACTOR SHALL PROVIDE, INSTALL AND SURVEY (A) VERTICAL AND HORIZONTAL MOVEMENTS OF THE TOP OF THE SOIL RETENTION SYSTEM AND (B) BENCH MARKS ADJACENT TO AND AWAY FROM THE SITE PERIMETER FOR VERTICAL AND HORIZONTAL MOVEMENTS.
- SEE PLUMBING AND ELECTRICAL DRAWINGS FOR UNDERLOOR UTILITY AND GROUNDS REQUIREMENTS.

TIMBER LAGGING NOTES:

- TIMBER LAGGING SHALL BE MINIMUM TWO-INCH (FULL) THICKNESS. TIMBER LAGGING SHALL HAVE A MINIMUM ALLOWABLE BENDING STRESS OF 1200 PSI.
- LAGGING SHALL BE INSTALLED SUCH THAT GAPS BETWEEN THE LAGGING BOARDS DO NOT EXCEED ONE INCH. Voids IN THE RETAINED EARTH BEHIND THE TIMBER LAGGING SHALL BE BACKFILLED WITH FEA GRAVEL (OR EQUIVALENT GRANULAR MATERIAL), AND THE GAPS BETWEEN THE TIMBER LAGGING SHALL BE PACKED WITH HWY AS REQUIRED TO PREVENT EROSION OF THE RETAINED SOIL BUT STILL ALLOW GROUNDWATER TO SEEP OUT.
- THE MAXIMUM EXPOSED HEIGHT OF SOIL IN FRONT OF THE WALL SHALL NOT EXCEED 2FT PRIOR TO INSTALLING TIMBER LAGGING.

STEEL NOTES:

- ALL W-SHAPE BRACING MATERIAL SHALL CONFORM TO ASTM A572 OR 50. F_y = 50 KSI
- WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STEEL CONSTRUCTION MANUAL OR AWS DOCUMENTS. WELDING ELECTRODES TO BE E7018.

SURVEY & MONITORING NOTES:

- A BUILDING PROTECTING PLAN (BPP) IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC) SHALL BE PREPARED BY CONTRACTOR'S ENGINEER.
- A PRE-CONSTRUCTION (PRE-CONDITION) SURVEY OF THE ADJACENT STRUCTURES AND BUILDINGS SHALL BE PERFORMED PRIOR TO CONSTRUCTION IN ACCORDANCE WITH THE BUILDING PROTECTION PLAN. THE CONTRACTOR SHALL REVIEW AND BE FAMILIAR WITH THE RESULTS OF THE SURVEY. THE CONTRACTOR SHALL MAKE A VISUAL INSPECTION OF THE ADJACENT STRUCTURES (INSIDE AND OUT) PRIOR TO COMMENCEMENT OF THE WORK.
- MONITOR THE ADJUTING BUILDINGS AND STRUCTURES BY OPTICAL SURVEY AT ABOUT 25-FT INTERVALS FOR VERTICAL AND LATERAL MOVEMENT. NOTE THAT BUILDING MONITORING LOCATIONS ARE NOT SHOWN ON THE SUPPORT OF EXCAVATION PLAN FOR CLARITY.
- CRACK GAUGES SHALL BE INSTALLED ON EXISTING NEIGHBORING BUILDING CRACKS AND MONITORED DURING EXCAVATION.
- OBTAIN BASELINE READINGS OF THE MONITORING POINTS PRIOR TO EXCAVATION AND NEW CONSTRUCTION. HORIZONTAL AND VERTICAL DATA TO BE OBTAINED BY A NEW YORK STATE LICENSED SURVEYOR.
- PERFORM OPTICAL SURVEYS AT LEAST TWICE PER WEEK DURING EXCAVATION AND FOUNDATION CONSTRUCTION. IF MOVEMENTS OCCUR, INCREASE THE FREQUENCY OF THE READINGS AS RECOMMENDED BY THE ENGINEER.
- VIBRATION MONITORS (SEISMOGRAPHS) SHALL BE PLACED ADJACENT TO AREAS WHERE WORK IS BEING PERFORMED AS NEGOTIATED WITH THE NEIGHBORING BUILDINGS. NOTE THAT THE SEISMOGRAPH LOCATIONS ARE NOT SHOWN ON THE SUPPORT OF EXCAVATION PLAN FOR CLARITY.
- BUILDING MOVEMENT AND VIBRATION CRITERIA:
 - ALL MONITORING FREQUENCIES SHALL COMPLY WITH TPN 10/08.
 - IF THE VERTICAL OR LATERAL BUILDING MOVEMENT REACHES 1/8-INCH, IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER, OWNER, AND ENGINEER.
 - IF THE VERTICAL OR LATERAL BUILDING MOVEMENT REACHES 1/4-INCH, IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER, OWNER, ENGINEER, AND STOP WORK. THE WORK SHALL RESUME UPON APPROVAL BY THE CONSTRUCTION MANAGER, OWNER ENGINEER, AND STOP WORK. THE WORK SHALL RESUME UPON APPROVAL BY THE CONSTRUCTION MANAGER, OWNER, AND ENGINEER OF APPROVED REMEDIAL MEASURES AND/OR MODIFIED CONSTRUCTION PROCEDURES.
 - IF THE VIBRATIONS EXCEED 0.5-IPS, AND/OR ANY INDIVIDUAL CRACK GAUGE READINGS EXCEEDS 2MM, IMMEDIATELY INFORM THE CONSTRUCTION MANAGER, OWNER, ENGINEER, AND STOP WORK. THE WORK SHALL RESUME UPON APPROVAL BY THE CONSTRUCTION MANAGER, OWNER ENGINEER OF APPROVED REMEDIAL MEASURES AND/OR MODIFIED CONSTRUCTION PROCEDURES. INFORM NYC DOB EXCAVATION UNIT. OBSERVE NEIGHBORING STRUCTURE CONDITIONS AND REVIEW AND REPORT AS NECESSARY THE RESULTS OF THE MONITORING AND REMEDIAL MEASURES TO THE DESIGN ARCHITECTS AND PER CONSTRUCTION WORK SHALL NOT COMMENCE UNTIL AGREED UPON CORRECTIVE ACTION IS IMPLEMENTED BY THE CONTRACTOR.
- VIBRATION MONITORS SHALL TAKE REAL-TIME READINGS.
- ALL MONITORING DATA SHALL BE PRESENTED TO THE CONSTRUCTION MANAGER, OWNER, ENGINEER AT THE END OF EACH DAY, OR AT AGREED-UPON INTERVALS.

DEWATERING NOTES:

CONTRACTOR SHALL DEVELOP AND IMPLEMENT THE DEWATERING MEANS AND METHODS IF GROUND WATER IS ENCOUNTERED DURING CONSTRUCTION.

LANDMARK NOTES:

THIS BUILDING IS NOT A LANDMARK BUILDING AND IT IS NOT WITHIN 90FT OF A LANDMARK STRUCTURE

TRI SPECIAL INSPECTION:

- EXCAVATION - SHEETING, SHORING & BRACING
- STRUCTURAL STABILITY - EXISTING BUILDINGS

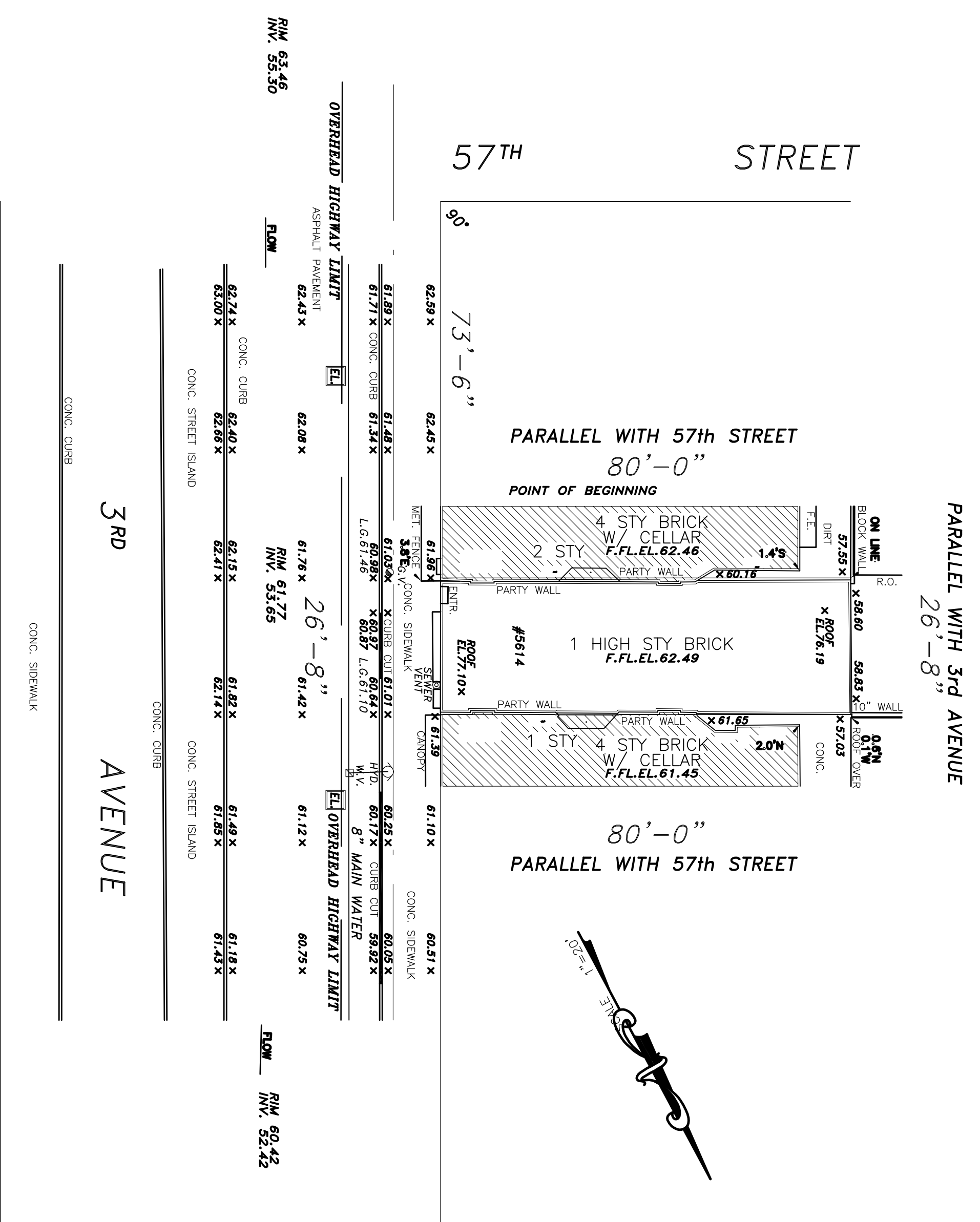
2016 NYC/ECC STATEMENT:

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THE BUILDING IS BEING RECONSTRUCTED IN COMPLIANCE WITH THE 2016 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK CITY.

FOR ENERGY ANALYSIS OF THIS BUILDING, SEE ARCH. FILE JOB #421322571.

SCOPE OF WORK:

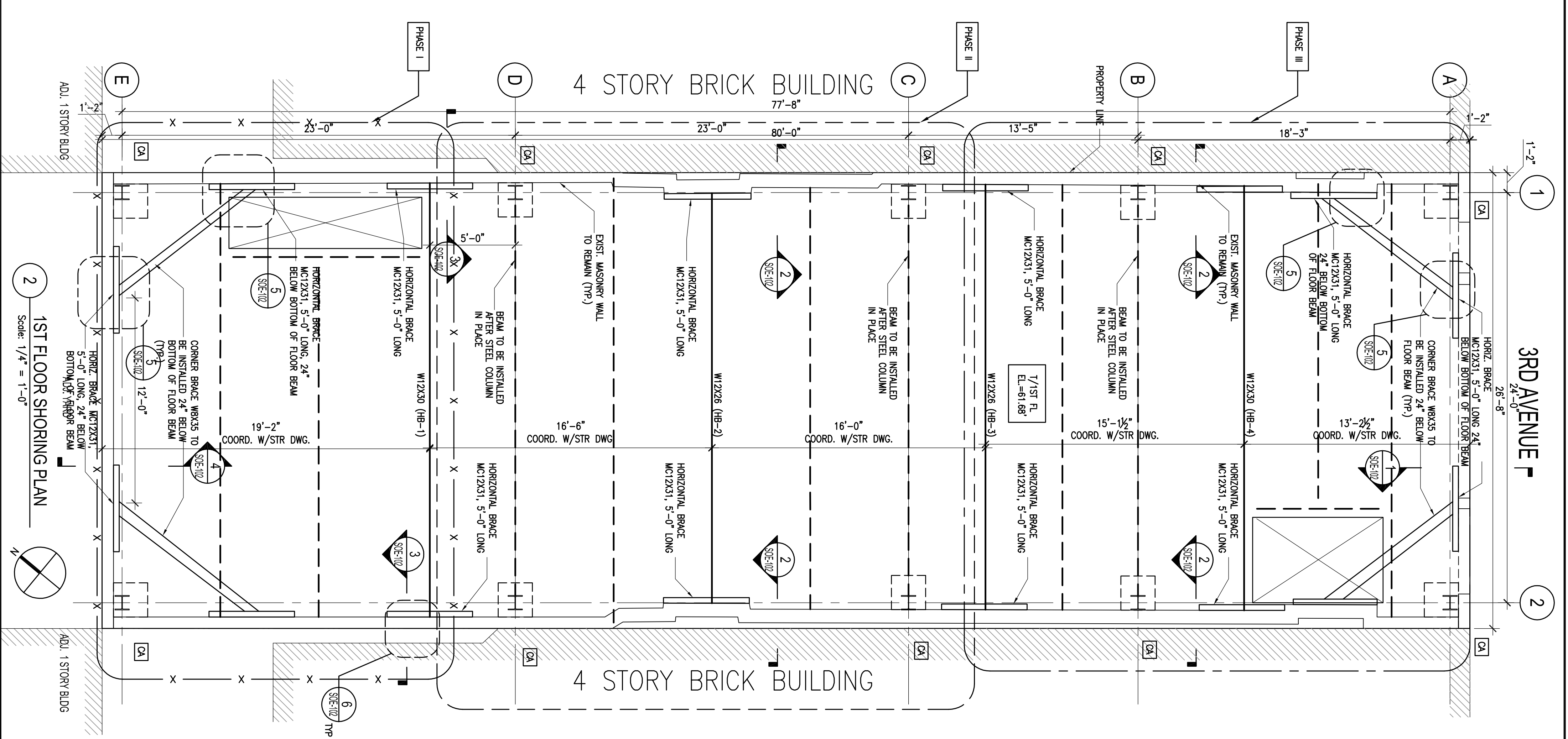
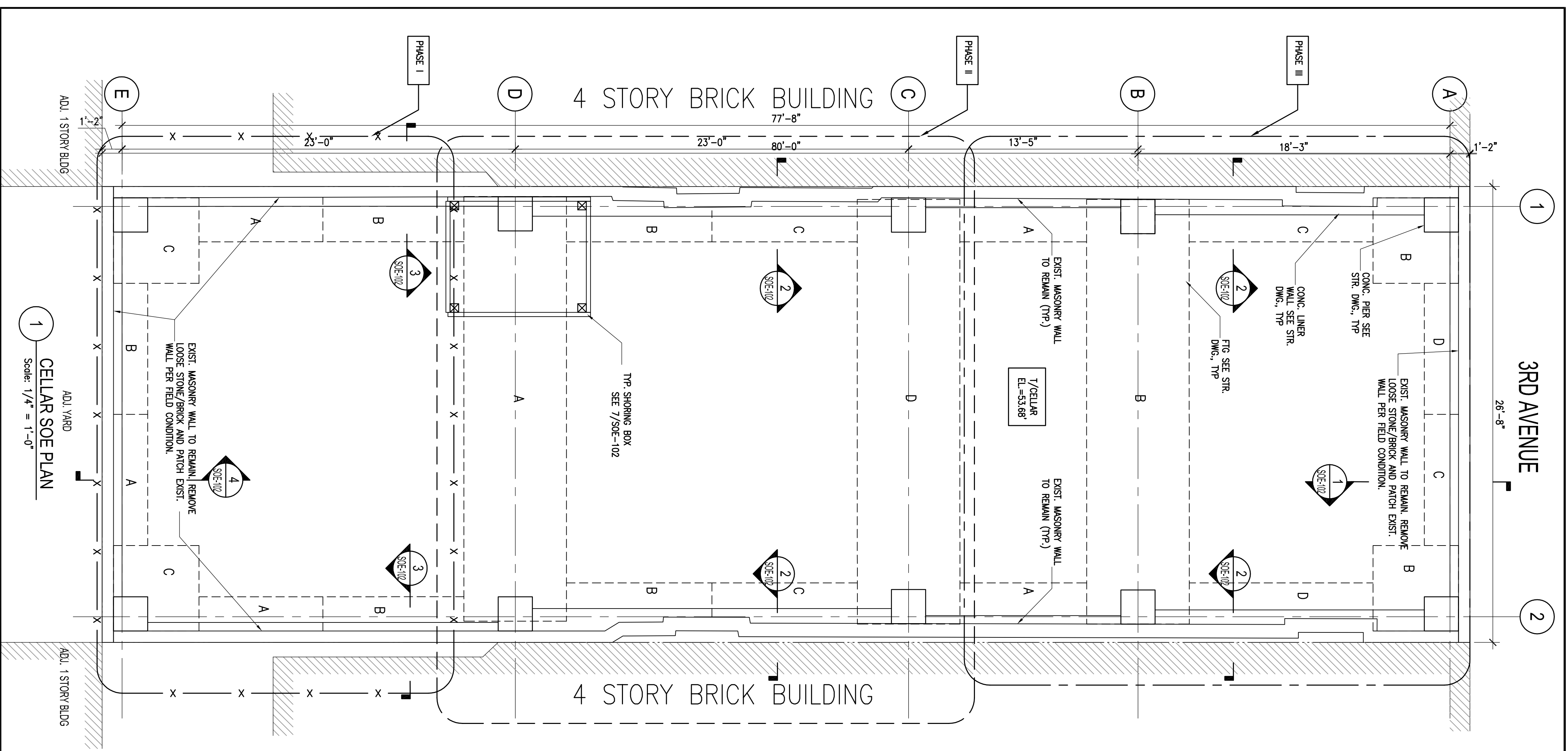
S.O.E. AND STRUCTURAL WORK IN CONJUNCTION WITH NEM#421322571. NO CHANGE IN USE, EGRESS OR OCCUPANCY



S.O.E. GENERAL NOTES

SUPPORT OF EXCAVATION PLAN
 5614 3rd Avenue,
 Brooklyn, New York

SEAL & SIGNATURE
 DATE: 08-20-2018
 PROJECT NO: 1700520
 DRAWING BY: EL
 CHK BY: JLM
 DWG NO: SOE-1000.00
 1 OF 3



- NOTES:**
- ALL DIMENSIONS, ELEVATIONS AND ADJ. BUILDING INFORMATION SHALL BE VERIFIED WITH ARCHITECTURAL & STRUCTURAL DWGS IN FIELD.
 - ALL EXCAVATION WORK SHALL CONFORM TO THE REQUIREMENT OF NEW YORK CITY BUILDING CODE CHAPTER 33.
 - THE CONTRACTOR SHALL THE SAFETY AND STABILITY OF ADJACENT STRUCTURES AND PROVIDE PROTECTION FOR ADJACENT PROPERTY PER NEW YORK CITY BUILDING CODE SECTION 3309.
 - ANY EXCAVATION DEEPER THAN 5 FEET SHALL BE PROTECTED AND MAINTAINED BY SHORING, BRACING, SHEETING OR BY OTHER REMAINING STRUCTURES PER NEW YORK CITY BUILDING CODE SECTION 3304.4
 - TEMPORARY SHORING SYSTEM SHALL REMAIN IN PLACE UNTIL 1ST FLOOR SLAB IS HARDENED.
 - THE CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS FROM DEPARTMENT OF TRANSPORTATION FOR ANY WORK ON STREETS.
 - THE CONTRACTOR SHALL OBTAIN ADJACENT BUILDING OWNER PERMISSION BEFORE ATTACH ANY TEMPORARY BRACING TO ADJACENT BUILDING.
 - FOR S.O.E. GENERAL NOTES: SEE SGE-100; FOR S.O.E. SECTIONS AND DETAILS, SEE SGE-102.
- RECOMMENDED SEQUENCE OF CONSTRUCTION:**
- START FROM PHASE I AREA
- REMOVE EXISTING S.O.G. AT GROUND FLOOR.
 - EXCAVATE THE SOIL 4' BELOW 1ST FLOOR ELEVATION, REMOVE LOOSE STONE/BRICK ON EXIST. WALL AND PATCH THE EXIST. WALL AS NECESSARY PER FIELD CONDITION.
 - INSTALL CORNER BRACE AND CHANNELS TO BRACE THE EXIST. WALL WITHIN PHASE I. INSTALL NEW 1ST FLOOR STEEL BEAM HB-3 AND CHANNELS TO BRACE EXIST. WALL AS MARKED ON PLAN. SEE 6/35E-102 FOR HORIZ. BRACE TO EXIST. WALL CONNECTION DETAIL.
 - START WITH AREA INDICATED AS PHASE I.
 - CONSTRUCT FOOTING MARKED WITH "X", HAND EXCAVATE SOIL AND INSTALL WOOD LAGGING SHORING TO RETAIN SOILS DURING EXCAVATION AS NECESSARY PER FIELD CONDITIONS. INSTALL REBAR SPICE/DOWELS AS HEAD PER STR. DWG. FOR CONNECTING ADJACENT SEGMENTS.
 - PLACE CONCRETE FOR SEGMENT A, THEN ALLOW CONCRETE TO CURE FOR AT LEAST 24 HOURS.
 - REPEAT STEPS 5.1-5.2 FOR SEGMENT B, C, D.
 - CONTINUE WITH AREA INDICATED AS PHASE II. FIRST INSTALL HORIZ. BRACE HB-2, HB-3, AND CHANNELS. 5.1.1 CONSTRUCT FOOTING MARKED WITH "X", HAND EXCAVATE SOIL AND INSTALL WOOD LAGGING SHORING TO RETAIN SOILS DURING EXCAVATION AS NECESSARY PER FIELD CONDITIONS. INSTALL REBAR SPICE/DOWELS AS HEAD PER STR. DWG. FOR CONNECTING ADJACENT SEGMENTS.
 - INSTALL REMAINING 1ST FLOOR STEEL BEAMS, COLUMNS AND METAL DECK, THEN CONSTRUCT 1ST FLOOR CONCRETE TOPPING ON METAL DECK AS PER STR. DWG.
- NOTE:** CONTRACTOR TO OBTAIN PERMISSION FROM ADJACENT BUILDING OWNERS FOR ANY WORK BEYOND PROPERTY LINE OR TEMPORARY ATTACHMENT TO ADJACENT BUILDINGS.

LEGEND:

	TYPE I STEEL FRAMING (INSTALLED DURING SOE CONSTRUCTION), SEE STR. DWG.
	TYPE II STEEL FRAMING (INSTALLED AFTER SOE CONSTRUCTION), SEE STR. DWG.
	PHASE I CONSTRUCTION
	PHASE II CONSTRUCTION
	PHASE III CONSTRUCTION

STRUCTURAL ENGINEER:

TB ENGINEERING SERVICES
 8534 GRAND AVE. 2ND FL. ELMHURST, NY 11733
 TEL: (718) 922-9831 FAX: (718) 922-7248
 WEB: WWW.TBESOS.COM EMAIL: TB@TBESOS.COM

DRAWING TITLE:
CELLAR AND 1ST FLOOR SHORING PLAN

PROJECT:
 SUPPORT OF EXCAVATION PLAN
 5614 3rd Avenue,
 Brooklyn, New York

DATE: 08-20-2018
 PROJECT NO: 1700520
 DRAWING BY: EL
 CHK BY: JLM
 DWG. NO: SOE-101.00
 2 OF 3

NYC DOB NUMBER:

NYC DOB APPROVAL:

SEAL & SIGNATURE:

STATE OF NEW YORK
 LICENSED PROFESSIONAL ENGINEER
 0250142

STRUCTURAL ENGINEER:

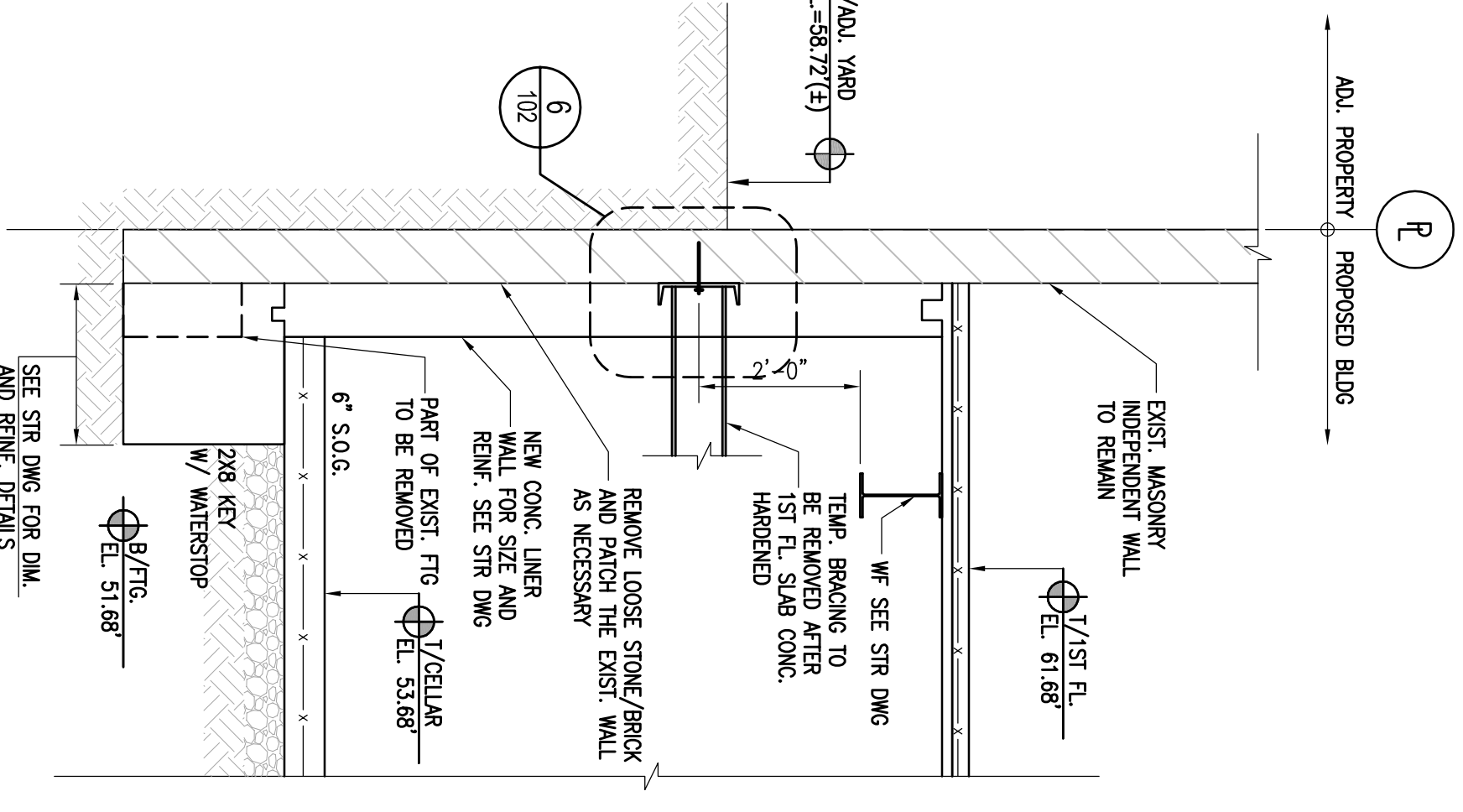


NO.	DATE	DESCRIPTION

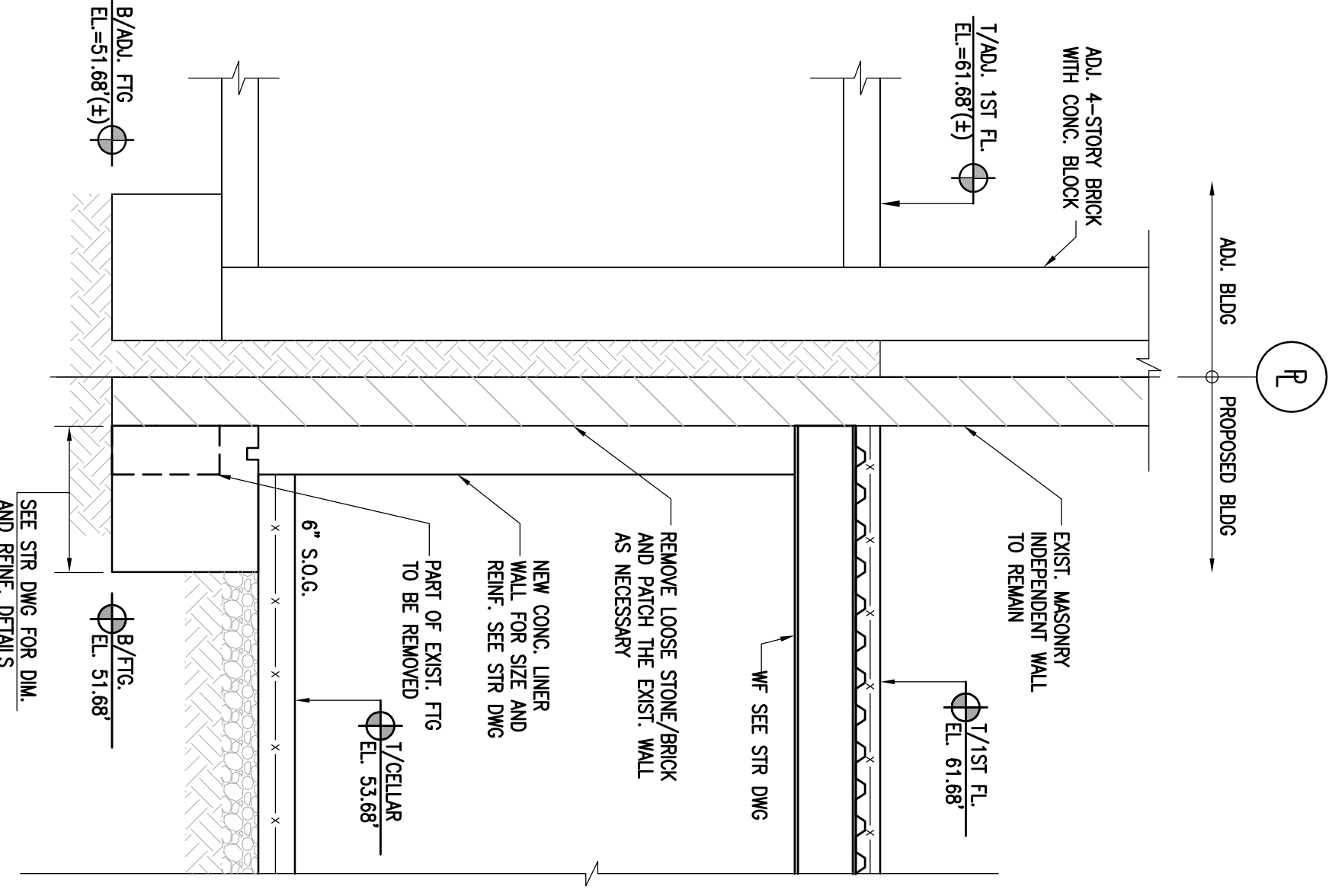
SUPPORT OF EXCAVATION PLAN
5614 3rd Avenue,
Brooklyn, New York

**S.O.E. SECTIONS AND
TYPICAL DETAILS**

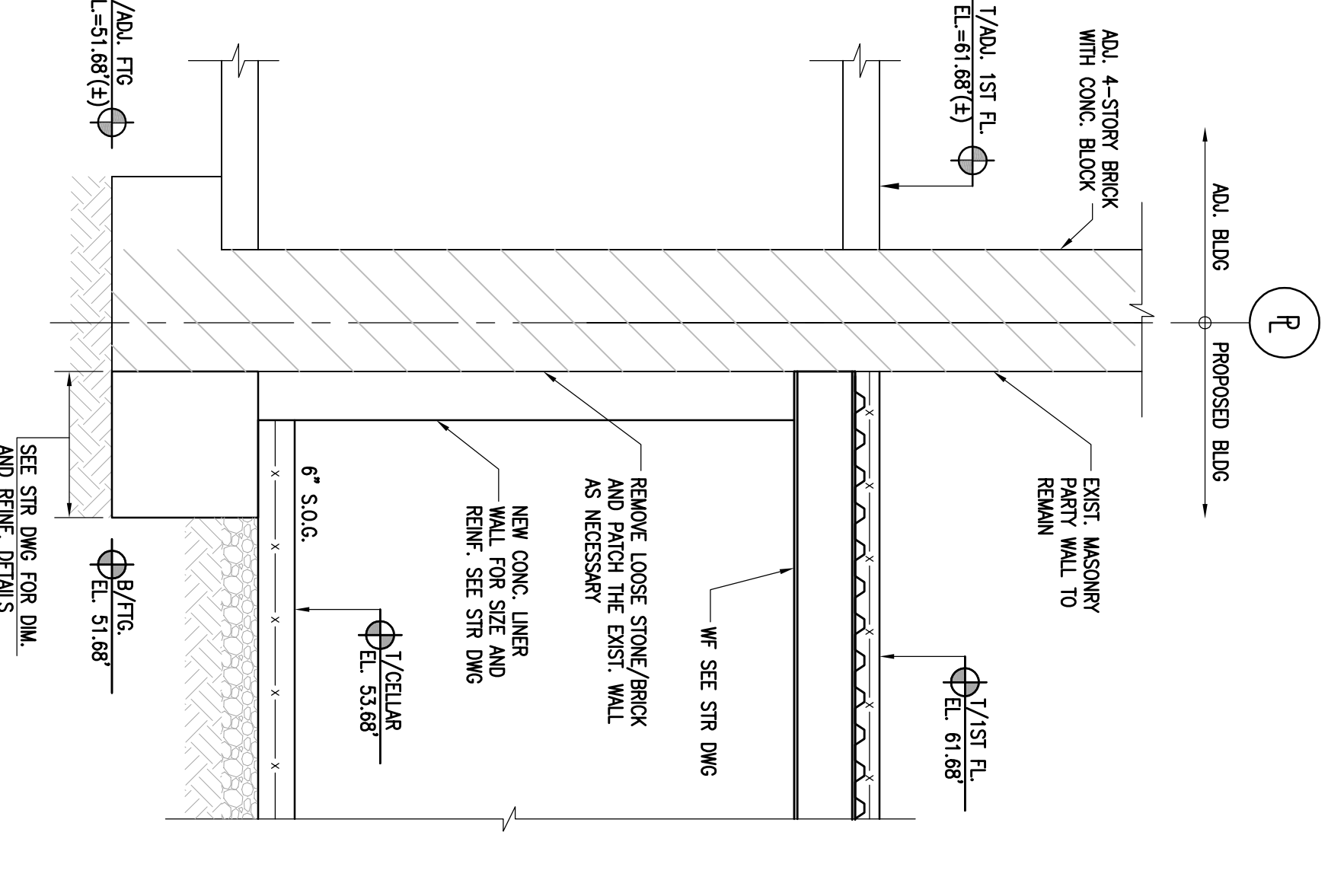
NYC DOB APPROVAL



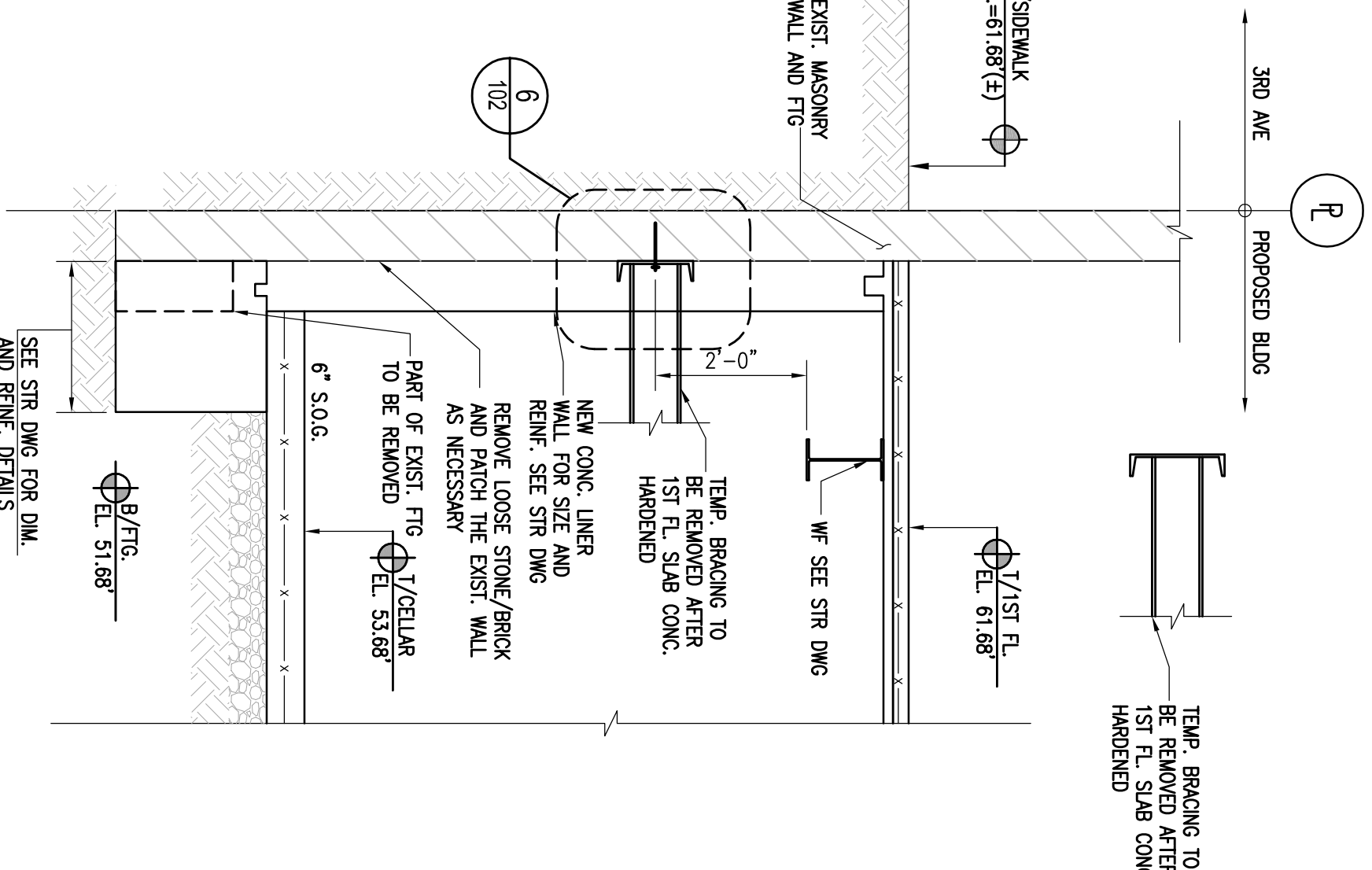
4 SECTION
Scale: 1/2" = 1'-0"



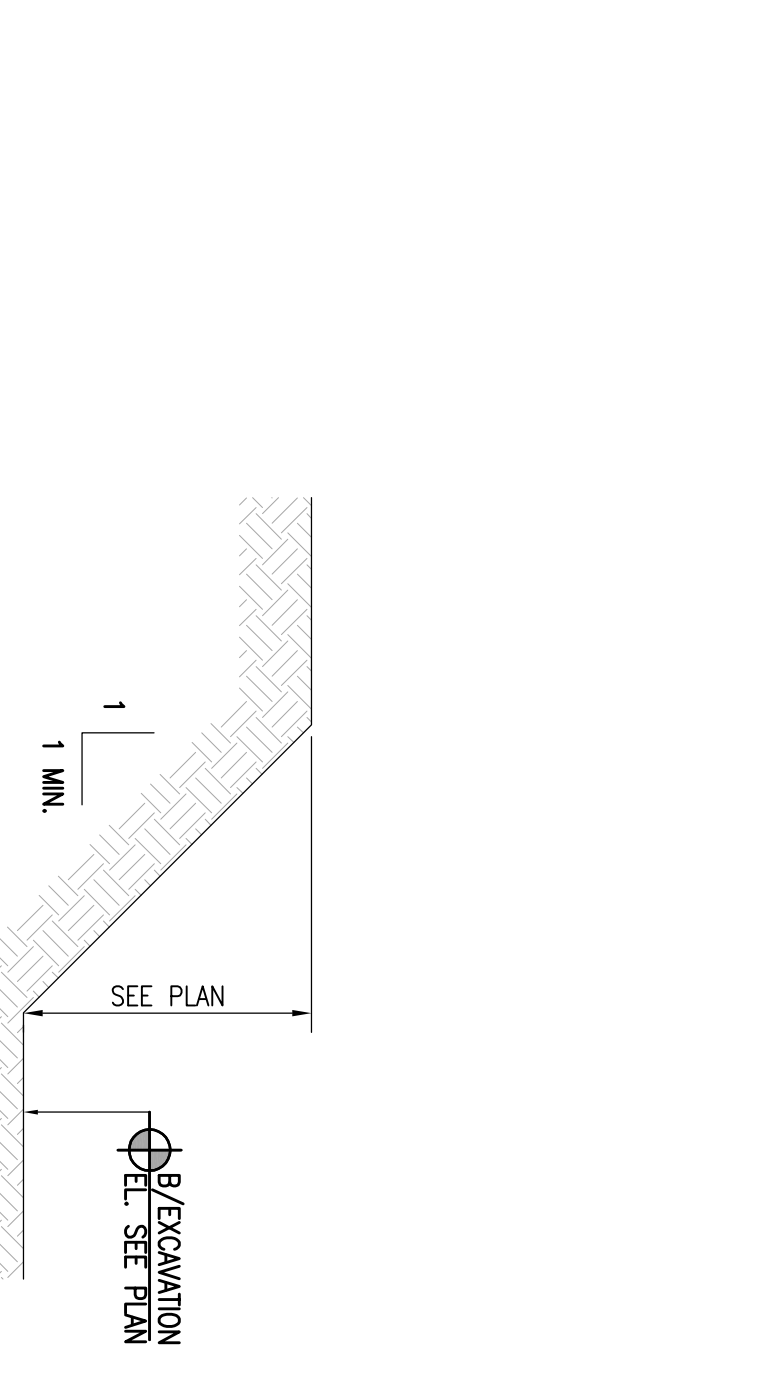
3 SECTION
Scale: 1/2" = 1'-0"



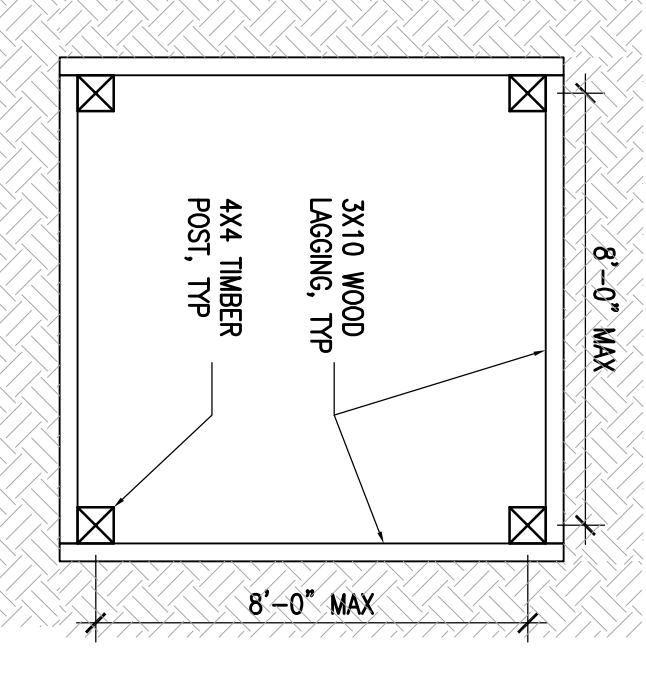
2 SECTION
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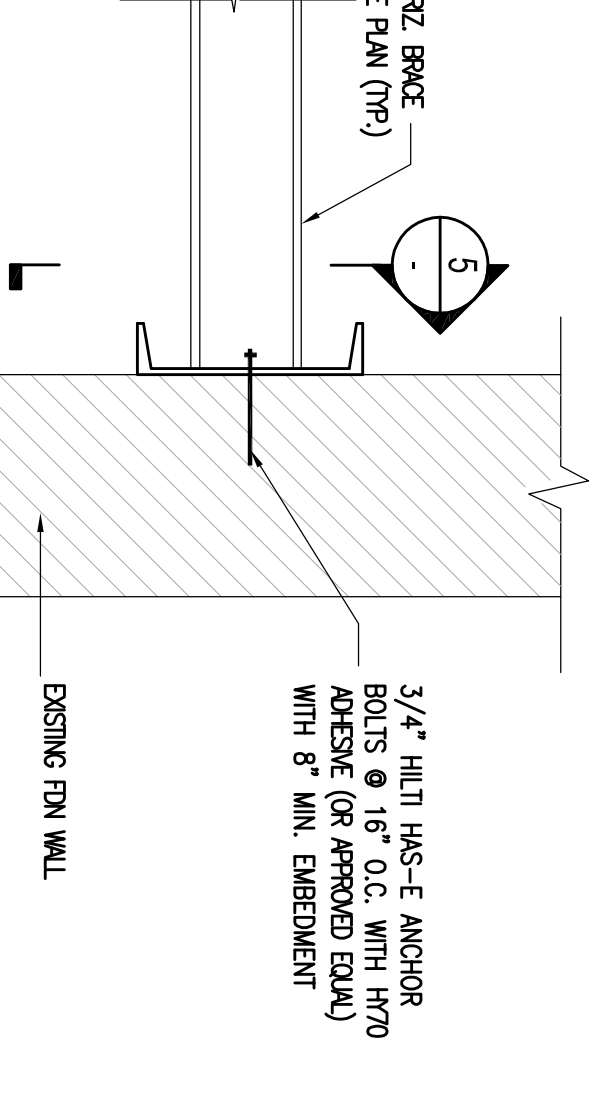
1 SECTION
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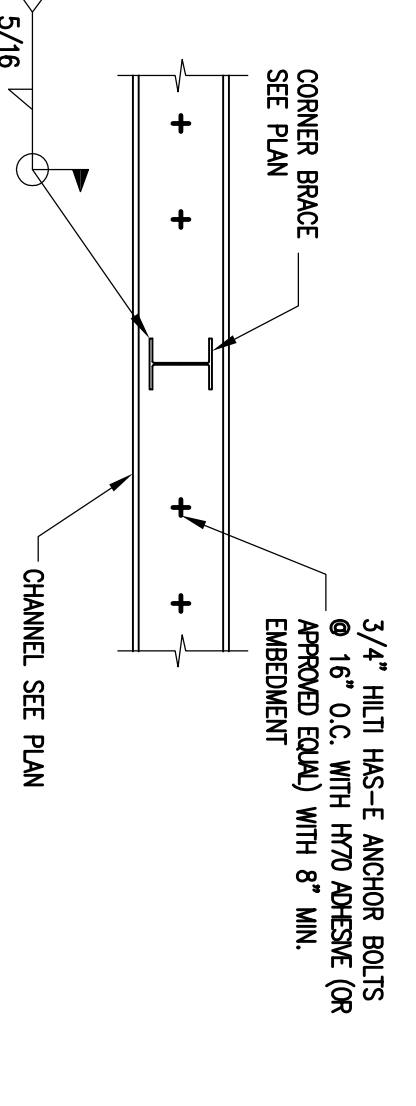
8 SLOPE EXCAVATION TYP. DETAIL
Scale: 3/8" = 1'-0"



7 SHORING BOX TYP. DETAIL
Scale: 3/8" = 1'-0"



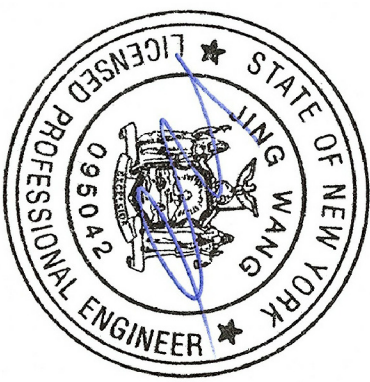
6 HORIZ. BRACE TO EXIST. WALL
SCALE: N.T.S.



5 BRACE TO CHANNEL CONNECTION DETAIL
SCALE: N.T.S.

NYC DOB NUMBER:

SEAL & SIGNATURE



DATE: 08-20-2018
 PROJECT NO: 1700520
 DRAWING BY: EL
 CHK BY: JMW
 DWG. NO: SOE-102.00
 3 OF 3