

MASONRY NOTES:

1. CONSTRUCT MASONRY IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE ACI-530 / ASCE 5 / TMS 402, LATEST EDITION "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES."
2. PROVIDE CONCRETE MASONRY UNITS (CMU) CONFORMING TO ASTM C90 GRADE N, WITH A MINIMUM NET COMPRESSIVE STRENGTH (F'M) OF 2,000 PSI. MASONRY STRENGTH SHALL BE DETERMINED BY THE UNIT STRENGTH METHOD OR THE PRISM TEST METHOD AS DESCRIBED BY ACI 530.
3. PROVIDE MORTAR CONFORMING TO THE REQUIREMENTS OF ASTM C-270, TYPE S (OR AS APPLICABLE). CEMENT USED FOR MORTAR SHALL BE PORTLAND CEMENT WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 750 PSI.
4. PROVIDE GROUT CONFORMING TO THE REQUIREMENTS OF ASTM C476 COARSE GROUT, WITH A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
5. PROVIDE REINFORCING BARS CONFORMING TO ASTM A615, GRADE 60. ALL WELDED REINFORCING SHALL BE ASTM A706. PROVIDE SPACERS AND TIES AS NEEDED TO PROPERLY SECURE REINFORCING PRIOR TO GROUTING. ALL CELLS WITH REINFORCING SHALL BE FULLY GROUTED.
6. MASONRY SHALL COMPLY WITH THE TYPICAL DETAILS FOR CONCRETE MASONRY WALL REINFORCING AND CONCRETE MASONRY OPENING REINFORCING AS SHOWN IN THE STRUCTURAL DRAWINGS.
7. SPECIAL INSPECTION IS REQUIRED ON ALL MASONRY WALLS, IN ACCORDANCE WITH BUILDING CODE REFERENCED ABOVE.
8. LAP REINFORCING IN ACCORDANCE WITH ACI 530, UNLESS INDICATED OTHERWISE IN STRUCTURAL DRAWINGS.
9. MORTARED CELLS SHALL BE PLACED CONTINUOUSLY AT THE ELEVATION OF CONSTRUCTION AND SHALL NOT BE PERMITTED TO BE PUMPED OR PLACED FROM ABOVE. GROUTING OF THE MASONRY CELLS SHALL BE PERMITTED IN THE INSTANCES WHERE CONTINUOUS MORTAR PLACEMENT CANNOT BE ACHIEVED.
10. MAXIMUM HEIGHT TO WHICH MASONRY SHALL BE LAID BEFORE GROUTING IS 5 FEET. MAXIMUM GROUT PLACEMENT HEIGHT IS 5 FEET. IF GROUT PLACEMENT HEIGHT EXCEEDS 5 FEET, PROVIDE CLEANOUT OPENINGS AT THE BOTTOM OF EACH PLACEMENT. CLEANOUT OPENINGS SHALL BE PROVIDED AT EACH CELL TO BE FILLED WITH GROUT.
11. REINFORCE MASONRY WHERE SHOWN ON STRUCTURAL DRAWINGS. TIE REINFORCING IN POSITION AND PLACE GROUT AROUND REINFORCING. DO NOT PUSH REINFORCING DOWN INTO PREVIOUSLY PLACED GROUT FILL. SET ANCHOR BOLTS SIMILARLY.
12. HORIZONTAL JOINT REINFORCEMENT SHALL NOT EXTEND THROUGH EXPANSION JOINTS IN THE MASONRY. JOINT REINFORCEMENT SHALL BE PLACED CONTINUOUSLY WITH THE ENDS LAPPED 6" FOR DEFORMED BARS AND 12" FOR SMOOTH BARS.
13. TIE MASONRY WYTHES TOGETHER WITH HORIZONTAL REINFORCING AS SPECIFIED.
14. PROVIDE VERTICAL BARS, SIZE AND SPACING MATCHING WALL REINFORCING, AT ALL CORNERS, ENDS OF WALLS, EACH SIDE OF CONTROL JOINTS, AND EACH SIDE OF WALL OPENINGS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CONTROL JOINTS.
15. ALL CORNERS AND INTERSECTIONS OF STRUCTURAL MASONRY WALLS SHALL BE CONSTRUCTED BY INTERLOCKING COURSE.
16. ALL LINTELS SHALL BEAR 8" MINIMUM EACH SIDE OF OPENING ON SOLID GROUTED CELLS, UNLESS NOTED OTHERWISE.
17. VERTICAL BARS INTERRUPTED BY STEEL FRAMING SHALL BE WELDED TO TOP OF STEEL FRAMING, OR FASTENED TO TOP OF STEEL WITH REBAR COUPLERS WELDED TO TOP OF STEEL.
18. MORTAR BED JOINTS SHALL NOT EXCEED 3/8" THICKNESS, OR AS SPECIFIED IN EXPOSED AREAS WITH TIGHTER BED JOINT TOLERANCE.
19. COORDINATE PLACEMENT OF VERTICAL WALL DOWELS EMBEDDED INTO FOUNDATIONS AND FLOOR SLABS WITH CELLS OF MASONRY WALL. DOWEL SIZE AND SPACING TO MATCH VERTICAL WALL REINFORCING, U.O.N.
20. REFER TO ARCHITECTURAL DRAWINGS FOR NON-STRUCTURAL MASONRY PARTITION WALL CONSTRUCTION..

METAL DECK NOTES:

1. DESIGN, FABRICATE, AND ERECT METAL DECK IN CONFORMANCE WITH THE STEEL DECK INSTITUTE (SDI) "CODE OF RECOMMENDED STANDARD PRACTICE AND BASIC DESIGN SPECIFICATIONS".
2. FORM ROOF AND FLOOR DECK FROM STEEL SHEETS CONFORMING TO ASTM A611 GRADE C AND D OR A653 OR HIGHER SPECIFICATIONS WITH A MINIMUM YIELD STRENGTH OF 33 KSI.
3. METAL DECK PANELS ARE TO BE 3-SPAN CONTINUOUS, UNLESS OTHERWISE NOTED.
4. PROVIDE SHORING FOR METAL DECK IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED METAL DECK ERECTION DRAWINGS.
5. ATTACH METAL DECK TO STEEL SUPPORT MEMBERS AS INDICATED AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION. WHEN DECK IS SCHEDULED TO BE EXPOSED, DE-SLAG, CLEAN, AND TOUCH UP WELDS WITH ZINC-RICH PRIMER.
6. LAP METAL DECK ENDS MINIMUM OF 2 INCHES.
7. WHEN FASTENING DECK TO SUPPORT MEMBERS WITH WELDS, PROVIDE WELDING MATERIALS INSTALLATION PROCEDURES TO PREVENT BURNING OF HOLES IN DECK. PROVIDE WELD WASHERS WHERE REQUIRED.
8. PROVIDE CLOSURE STRIP WHERE CHANGES IN DECK DIRECTION OCCUR. CLOSURE TO BE SAME DEPTH AND GAUGE AS DECK.
9. AT ENDS OF DECKS OR WHERE CHANGES OF DECK DIRECTION OCCUR, FASTEN DECK TO SUPPORTS AT EACH FLUTE. FASTEN SIDES OF DECK TO CLOSURES OR SUPPORTING MEMBERS PER SIDELAP FASTENING REQUIREMENTS.
10. WHERE PARTIAL PANELS MAY BE REQUIRED TO COMPLETE DECK INSTALLATION AT PERIMETER OF STRUCTURE, FASTEN DECK TO SUPPORTING STRUCTURAL MEMBERS AT EACH FLUTE. INSTALL PARTIAL DECK PIECES IN THREE CONTINUOUS SPAN LENGTHS.
11. AT PERIMETER OF DECK, SECURE DECK TO STRUCTURAL MEMBERS WITH SAME ATTACHMENT AND SPACING SUPPORT ATTACHMENT AS INDICATED ON PLANS.
12. DECK SUPPLIER IS RESPONSIBLE FOR PROVIDING CLOSURES AND POUR STOPS AT ALL TERMINATIONS OR CHANGES IN DIRECTION OF METAL DECK. ALL DECKING ACCESSORIES SHALL BE INCLUDED IN METAL DECK SHOP DRAWINGS FOR REVIEW AND APPROVAL.

COLD-FORMED STEEL NOTES:

1. COLD-FORMED STEEL FRAMING SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.
2. PROVIDE ALL STUDS AND/OR JOISTS AND ACCESSORIES OF THE TYPE, SIZE, GAUGE, AND SPACING SHOWN ON THE DRAWINGS.
3. FORM ALL FRAMING MEMBERS AND ACCESSORIES FROM CORROSION RESISTANT STEEL, CORRESPONDING TO REQUIREMENTS OF ASTM A653 AND THE FOLLOWING STRENGTH REQUIREMENTS:
 - A. MATERIAL WITH A THICKNESS OF 18 GA (43 MIL) OR THINNER SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI.
 - B. MATERIAL WITH A THICKNESS OF 16 GA (54 MIL) OR THICKER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.
4. PLACE ALL COLD-FORMED STEEL STUD WALL BRIDGING HORIZONTALLY WITH A MAXIMUM VERTICAL SPACING OF FOUR FEET, UNLESS NOTED OTHERWISE. AS AN OPTION, CONTINUOUS COLD-FORMED CHANNELS MAY BE POSITIONED THROUGH THE STUD PUNCH OUTS AS BRIDGING PROVIDED THE BRIDGING CHANNEL IS PROPERLY FASTENED TO EACH STUD. STUDS WITH A MEMBER DEPTH OF EIGHT (8) INCHES OR GREATER SHALL USE CONTINUOUS FLAT STRAP BRIDGING ON EACH SIDE OF THE WALL.
5. BRIDGING SHALL BE SECURELY ANCHORED TO A POST, STRONGBACK, BRACE, OR OTHER SUPPORTING MEMBER PER WALL DESIGN, OR NOT FARTHER THAN EVERY 24 FEET ON CENTER.
6. INSTALL AXIALLY LOADED STUDS IN A MANNER WHICH WILL ASSURE THAT THEIR ENDS ARE POSITIONED AGAINST THE INSIDE OF THE TRACK WEB PRIOR TO FASTENING.
7. FASTEN COMPONENTS WITH SELF-DRILLING SCREWS OR WELDING. PROVIDE SCREWS OF SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION. WIRE TYING OF COMPONENTS IS NOT PERMITTED. TOUCH UP ALL WELDS WITH A ZINC-RICH PAINT.
8. WELDING OF COLD-FORMED STUDS MAY BE PERFORMED USING A MINIMUM ONE-EIGHTH INCH AWS TYPE 6013 WELDING ROD.
9. SECURELY ANCHOR WALL TRACKS TO THE SUPPORTING STRUCTURE. PROVIDE COMPLETE, UNIFORM, AND LEVEL BEARING SUPPORT FOR THE BOTTOM TRACK. PROVIDE METAL OR PLASTIC SHIMS BETWEEN BOTTOM TRACK AND SLAB AT EACH WALL STUD AS NEEDED TO ENSURE FULL BEARING.
10. SECURELY ANCHOR ABUTTING LENGTHS OF WALL TRACK TO A COMMON STRUCTURAL ELEMENT, BUTT-WELDED OR SPLICED.
11. PLUMB, ALIGN, AND SECURELY ATTACH STUDS TO THE FLANGES OF BOTH UPPER AND LOWER WALL TRACKS. SPLICES IN WALL STUDS ARE NOT PERMITTED.
12. ALIGN PUNCHED OPENINGS OF WALL STUDS.
13. PROVIDE HEADERS AND SUPPORTING STUDS FOR FRAMING OF WALL OPENINGS.
14. STUD MATERIAL USED IN HEADER CONSTRUCTION SHALL BE FREE OF PUNCHED OPENINGS.
15. WHERE COLD-FORMED STEEL DESIGN HAS BEEN DELEGATED, OWNER/CONTRACTOR SHALL HIRE A SPECIALTY ENGINEER WITH EXPERIENCE IN COLD-FORMED STEEL DESIGN TO DEVELOP THE DESIGN OF THE DELEGATED COLD-FORMED STEEL MEMBERS. SPECIALTY ENGINEER RESPONSIBLE FOR COLD-FORMED STEEL DESIGN SHALL BE A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROPOSED CONSTRUCTION. SPECIALTY ENGINEER SHALL PROVIDE A FULL SET OF COLD-FORMED STEEL ENGINEERING DRAWINGS TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL. WHERE DELEGATED COLD-FORMED STEEL DESIGN INCLUDES BEARING WALLS, SHEAR WALLS, BRACED WALL PANELS, OR OTHER VERTICAL ELEMENTS OF THE BUILDING GRAVITY OR LATERAL SYSTEMS, DESIGN CALCULATIONS SHALL ALSO BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL. ALL ENGINEERING DRAWINGS AND CALCULATIONS SUBMITTED SHALL BE SIGNED AND SEALED BY THE SPECIALTY ENGINEER RESPONSIBLE FOR THE COLD-FORMED STEEL DESIGN.
16. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL PANELIZED COLD-FORM STEEL CONSTRUCTION FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
17. FOR ANY JAMB MEMBER THAT CANNOT BE SIZED AS SPECIFIED IN THE ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL SUBSTITUTE IT WITH AN HSS STEEL POST. THE HSS STEEL POST SHALL BE DESIGNED, PROCURED, AND INSTALLED BY THE CONTRACTOR

CURTAIN WALL SYSTEM NOTES:

1. CURTAIN WALL SYSTEM SHALL BE DESIGNED TO MEET THE MOST STRINGENT MINIMUM LOADING AND SERVICEABILITY REQUIREMENTS SPECIFIED IN DESIGN NOTES HEREIN AS WELL AS INDICATED IN SPECIFICATION SECTION. CURTAIN WALL SYSTEM MUST BE DESIGNED AS A DEAD LOADED SYSTEM BEARING ON FOUNDATIONS OR STEEL BEAMS WHERE SPECIFICALLY NOTED IN PLANS. NO COMPONENTS OF THE SYSTEM SHALL BE HUNG FROM STEEL SUPPORTS ABOVE UNLESS SPECIFICALLY INDICATED IN PLANS. MANUFACTURER SUPPLIED CLIPS SHALL BE PROVIDED BY GC FOR LATERAL ATTACHMENT TO STRUCTURE.

LIST OF ABBREVIATIONS:

C/C	=	CENTER-TO-CENTER
C.J.	=	CONTROL JOINT; CEILING JOISTS
D.E.	=	DECK EDGE
E.F.	=	EACH FACE
E.J.	=	EXPANSION JOINT
E.W.	=	EACH WAY
E.O.D.	=	EDGE OF DECK
E.O.S.	=	EDGE OF SLAB
I.F.	=	INSIDE FACE
O.C.	=	ON CENTER
O.F.	=	OUTSIDE FACE
O.H.	=	OPPOSITE HAND
R.R.	=	ROOF RAFTERS
S.O.G.	=	SLAB-ON-GRADE
T.O.D.	=	TOP OF DECK
T.O.F.	=	TOP OF FOOTING
T.O.P.	=	TOP OF PIER/PEDESTAL
T.O.S.	=	TOP OF SLAB; TOP OF STEEL
T.O.Sh.	=	TOP OF SHELF
T.O.W.	=	TOP OF WALL
TYP.	=	TYPICAL
U.N.O.	=	UNLESS NOTED OTHERWISE
U.O.N.	=	UNLESS OTHERWISE NOTED
W.P.	=	WORKING POINT

SPECIAL INSPECTIONS:

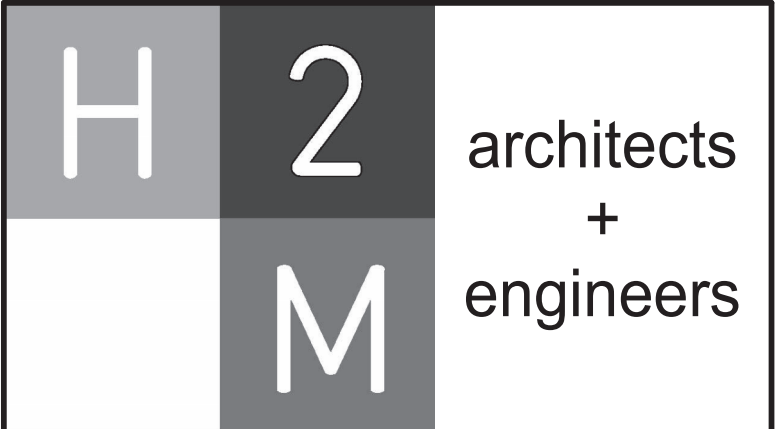
SPECIAL INSPECTION SHALL MEET THE REQUIREMENTS OF THE ABOVE REFERENCED BUILDING CODE. CHAPTER 17. SPECIAL INSPECTOR(S) SHALL BE RETAINED BY THE OWNER TO PERFORM THE REQUIRED SPECIAL INSPECTIONS. THE NAMES AND QUALIFICATIONS OF THE PERSONS AND/OR FIRMS WHO ARE TO PERFORM THE SPECIAL INSPECTIONS SHALL BE PROVIDED TO THE BUILDING OFFICIAL FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. THE SPECIAL INSPECTOR(S) SHALL COMPLETE AND SUBMIT ALL FORMS, REPORTS, AND CERTIFICATES REQUIRED BY THE JURISDICTION WHERE CONSTRUCTION OR WORK IS LOCATED.

1. THE SPECIAL INSPECTOR(S) SHALL:
 - A. OBSERVE THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED DRAWINGS AND SPECIFICATIONS.
 - B. FURNISH INSPECTION REPORTS TO ENGINEER OF RECORD AND BUILDING DEPARTMENT. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF NOT CORRECTED, TO THE ATTENTION OF THE ENGINEER AND THE BUILDING DEPARTMENT.
 - C. SUBMIT TO THE ENGINEER OF RECORD AND THE BUILDING DEPARTMENT A SIGNED FINAL REPORT STATING THAT THE WORK WAS IN CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE BUILDING CODE.
2. SPECIAL INSPECTION NOTES:
 - A. WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS IS REQUIRED DURING THE PERFORMANCE OF THE WORK EXCEPT WHERE THE FABRICATOR HAS BEEN APPROVED TO PERFORM THE WORK WITHOUT SPECIAL INSPECTION IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE. WHERE SPECIAL INSPECTION HAS BEEN EXEMPTED DURING FABRICATION, FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE IN LIEU OF THE INSPECTION, STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
 - B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE SPECIAL INSPECTOR(S) WITH ADVANCE NOTICE, NO LESS THAN 72 HOURS, OF THE INITIATION OF ANY WORK REQUIRED TO HAVE SPECIAL INSPECTIONS. ALL WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION WILL BE SUBJECT TO REMOVAL.
 - C. THE CONSTRUCTION OR WORK FOR WHICH SPECIAL INSPECTION IS REQUIRED SHALL REMAIN ACCESSIBLE AND EXPOSED FOR SPECIAL INSPECTION UNTIL COMPLETION OF THE REQUIRED INSPECTIONS AND/OR TESTS.
3. STRUCTURAL OBSERVATION NOTES:
 - A. WHERE REQUIRED BY THE BUILDING CODE OR BUILDING OFFICIAL, OR ELECTED BY THE OWNER OR ENGINEER OF RECORD, THE ENGINEER OF RECORD OR A DESIGNATED REGISTERED PROFESSIONAL ENGINEER ACTING ON THE OWNER'S OR ENGINEER'S BEHALF MAY PERFORM STRUCTURAL OBSERVATIONS DURING CONSTRUCTION.
 - B. STRUCTURAL OBSERVATIONS DO NOT INCLUDE, OR WAIVE THE RESPONSIBILITY FOR, THE PERFORMANCE OF SPECIAL INSPECTIONS AS REQUIRED HEREIN, OR FOR ANY OTHER INSPECTIONS AS REQUIRED BY THE BUILDING CODE OR BUILDING OFFICIAL.
4. SPECIAL INSPECTIONS AND TESTS OF ELEMENTS OF BUILDINGS AND STRUCTURES SHALL MEET THE APPLICABLE REQUIREMENTS LISTED BELOW.
 - A. STEEL CONSTRUCTION:
 - a. STRUCTURAL STEEL
 - SPECIAL INSPECTION AND NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL ELEMENTS IN BUILDINGS, STRUCTURES, AND PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360, LATEST EDITION.
 - b. COLD-FORMED STEEL DECK:
 - SPECIAL INSPECTIONS AND QUALIFICATION OF WELDING SPECIAL INSPECTOR(S) FOR COLD-FORMED STEEL FLOOR AND ROOF DECK SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI QA/QC.
 - c. OPEN-WEB STEEL JOISTS AND JOIST GIRDERS:
 - SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS IN BUILDINGS, STRUCTURES, AND PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH BUILDING CODE TABLE 1705.2.3.
 - d. COLD-FORMED STEEL TRUSSES SPANNING 60 FEET OR GREATER:
 - SPECIAL INSPECTOR SHALL VERIFY THAT THE TEMPORARY INSTALLATION RESTRAINT/BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.
 - B. CONCRETE CONSTRUCTION:
 - a. SPECIAL INSPECTIONS OF CONCRETE CONSTRUCTION SHALL BE PERFORMED AS LISTED BELOW AND IN ACCORDANCE WITH BUILDING CODE TABLE 1705.3, EXCEPT AS ALLOWED PER THE EXEMPTIONS LISTED IN BUILDING CODE SECTION 1705.3.
 - b. PERIODIC INSPECTION OF REINFORCING STEEL AND PRESTRESSING TENDON MATERIAL AND PLACEMENT.
 - c. PERIODIC INSPECTION OF REINFORCING STEEL WELDING, INCLUDING BAR MATERIAL AND WELDS AS REQUIRED.
 - d. PERIODIC INSPECTION OF ANCHORS CAST IN FRESH CONCRETE.
 - e. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE PER ACI 318, SECTION 17.8.
 - f. PERIODIC VERIFICATION OF USE OF REQUIRED DESIGN MIX.
 - g. FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE TEMPERATURE OF THE FRESH CONCRETE PRIOR TO CONCRETE PLACEMENT.
 - h. CONTINUOUS INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.
 - i. PERIODIC VERIFICATION OF MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.
 - j. INSPECT PRESTRESSED CONCRETE FOR APPLICATION OF PRESTRESSING FORCES AND GROUTING OF BONDED PRESTRESSING TENDONS.
 - k. PERIODIC INSPECTION OF ERECTION OF PRECAST CONCRETE MEMBERS.
 - l. VERIFY IN-SITU CONCRETE STRENGTH:
 - PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE, AND
 - PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.
 - m. PERIODIC INSPECTION OF FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.
 - C. MASONRY CONSTRUCTION:
 - a. SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION, INCLUDING VERTICAL MASONRY FOUNDATION ELEMENTS, SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE PROGRAM REQUIREMENTS OF TMS 402 AND TMS 602, LATEST EDITIONS, EXCEPT AS SPECIFICALLY EXEMPTED BY BUILDING CODE SECTION 1705.4
 - D. SOILS:
 - a. SPECIAL INSPECTIONS AND TESTS OF EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT, AND LOAD-BEARING REQUIREMENTS SHALL BE PERFORMED IN ACCORDANCE WITH BUILDING CODE SECTION 1705.6 AND TABLE 1705.6, INCLUDING:
 - PERIODIC VERIFICATION THAT MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.
 - PERIODIC VERIFICATION THAT EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER BEARING MATERIAL.
 - PERIODIC CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.
 - CONTINUOUS VERIFICATION OF USE OF PROPER FILL MATERIALS, FILL MATERIAL DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.
 - PERIODIC INSPECTION OF SUBGRADE PREPARATION PRIOR TO PLACEMENT OF COMPACTED FILL.
 - E. MAIN WIND-FORCE RESISTING SYSTEM: [>> ENGR NOTE: THIS DOES NOT ALWAYS APPLY, SEE BC SECTION 1705.11 FOR APPLICABILITY <<]
 - a. ELEMENTS OF THE MAIN WIND-FORCE RESISTING SYSTEM SHALL BE INSPECTED IN ACCORDANCE WITH BUILDING CODE SECTION 1705.11
 - F. MAIN SEISMIC-FORCE RESISTING SYSTEM: [>> ENGR NOTE: THIS DOES NOT ALWAYS APPLY, SEE BC SECTIONS 1705.12 AND 1705.13 FOR APPLICABILITY <<]
 - a. ELEMENTS OF THE MAIN SEISMIC-FORCE RESISTING SYSTEM SHALL BE INSPECTED IN ACCORDANCE WITH BUILDING CODE SECTIONS 1705.12 AND 1705.13.
 - G. SPECIAL INSPECTIONS SHALL BE PROVIDED FOR ANY OTHER ELEMENTS NOT LISTED AS ABOVE AS DEEMED NECESSARY BY THE BUILDING OFFICIAL.

SPECIAL INSPECTION REQUIREMENTS			
REQ'D?	INSPECTION OR TEST	CODE REFERENCE SECTION	REFERENCE STANDARDS
X	STEEL - MATERIAL TEST REPORTS & CERTS.	1705.2	AISC 360
X	STEEL - WELDED CONNECTIONS	1705.2	AISC 360, AWS D1.1
X	STEEL - BOLTED CONNECTIONS	1705.2	AISC 360
	STEEL - GALVANIZED MAIN MEMBERS	1705.2	AISC 360
X	STEEL - DETAILS	1705.2	AISC 360
X	STEEL - ANCHOR RODS & EMBEDMENTS	1705.2	AISC 360, ACI 318
X	COLD-FORMED STEEL DECK	1705.2	SDI
X	OPEN-WEB STEEL JOISTS & JOIST GIRDERS	1705.2; TABLE 1705.2.3	SJI
	COLD-FORMED STEEL TRUSSES	1705.2	-
X	CONCRETE CONSTRUCTION	1705.3; TABLE 1705.3	ACI 318, AWS D1.4
X	MASONRY CONSTRUCTION: TYPE A	1705.4	TMS 402, TMS 602
X	MASONRY CONSTRUCTION: TYPE B	1705.4	TMS 402, TMS 602
X	MASONRY CONSTRUCTION: TYPE C	1705.4	TMS 402, TMS 602
	WOOD - HIGH LOAD DIAPHRAGMS	1705.5	-
	METAL-PLATE CONNECTED WOOD TRUSSES	1705.5	-
X	SOIL TESTING & INSPECTION	1705.6; TABLE 1705.6	-
	DRIVEN DEEP FOUNDATIONS	1705.7; TABLE 1705.7	-
	HELICAL PILE FOUNDATIONS	1705.9	-
	WIND RESISTANCE - WOOD CONSTRUCTION	1705.11	-
	WIND RESISTANCE - CFS CONSTRUCTION	1705.11	-
	WIND RESISTANCE - COMPONENTS	1705.11	-
	SEISMIC RESISTANCE - STRUCTURAL STEEL	1705.12; 1705.13	AISC 341
	SEISMIC RESISTANCE - WOOD CONSTRUCTION	1705.12	-
	SEISMIC RESISTANCE - CFS CONSTRUCTION	1705.12	-

NOTE:

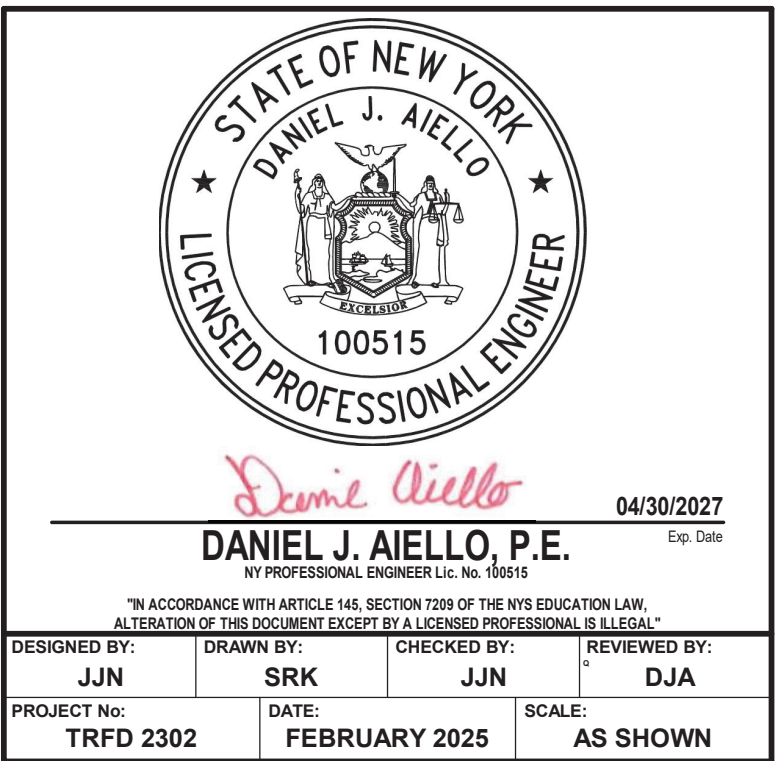
1. THE ABOVE TABLE IS INTENDED TO SUMMARIZE THE REQUIRED STRUCTURAL SPECIAL INSPECTIONS AND ALERT THE OWNER AND CONTRACTOR OF THEIR INCLUSION IN THE SCOPE. THE CONTRACTOR IS RESPONSIBLE FOR BEING FAMILIAR WITH THE BUILDING CODE AND COMPLYING WITH ALL OF THE SPECIFIC REQUIREMENTS OF THE SECTIONS LISTED ABOVE. IT IS NOT INTENDED TO BE AN EXHAUSTIVE OR COMPLETE LIST OF REQUIRED SPECIAL INSPECTIONS. THERE MAY BE OTHER, OR MORE SPECIFIC, REQUIREMENTS SHOWN ELSEWHERE ON THE DRAWINGS OR IN THE SPECIFICATIONS THAT ARE REQUIRED BY THE SCOPE OF WORK.
2. THE REFERENCE STANDARD COLUMN ABOVE IS FOR GENERAL USE. THE CONTRACTOR IS RESPONSIBLE FOR BEING IN COMPLIANCE WITH ALL STANDARDS REFERENCED IN THE GOVERNING BUILDING CODE.



538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
631.755.8000 • www.h2m.com
NY Architecture & Landscape Architecture: No Certificate Required
NY Engineering Certificate of Authorization No.: 0018178

CONSULTANTS:

MARK	DATE	DESCRIPTION



CLIENT

THIELS ROSEVILLE FIRE DISTRICT

NEW 26-100 FIRE
HEADQUARTERS

65 W RAMAPO ROAD
GARNERVILLE, NY 10923

CONTRACT

CONTRACT G

STATUS

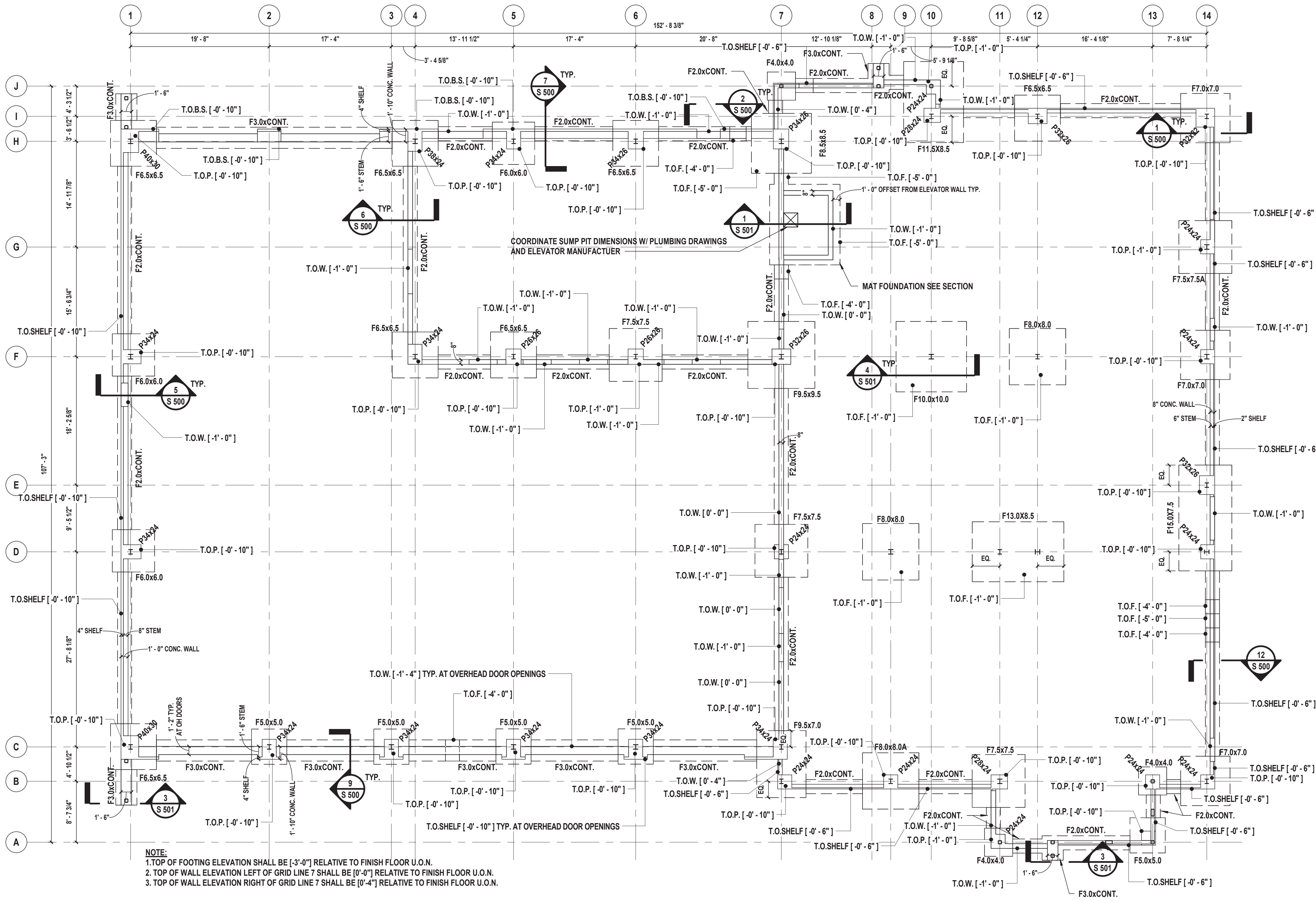
FINAL BID DOCUMENT

SHEET TITLE

GENERAL NOTES

DRAWING No.

S 002.00



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

FOUNDATION PLAN NOTES:

- ELEVATIONS SHOWN THUS [] ARE RELATIVE TO FINISHED FIRST FLOOR ELEVATION [0'-0"].
- BACKFILLING SHALL NOT COMMENCE AT AREAS ADJACENT TO BASEMENT FOUNDATION WALLS UNTIL THE WALL HAS BEEN PROPERLY Laterally Braced.
- ALL EXCAVATED EARTH SHALL BE REPLACED WITH CONTROLLED FILL AS PER SPECIFICATIONS.
- ALL CONCRETE PEDESTALS ARE TO ALIGN WITH WALL CORNERS AND INTERSECTIONS AS SHOWN, UNLESS DIMENSIONED OTHERWISE ON PLAN. CONTRACTOR TO COORDINATE STEEL COLUMN LOCATION WITH PIER LOCATION.
- CONTRACTOR SHALL COORDINATE SIZE AND LOCATIONS OF ALL REQUIRED PIPING AND CONDUIT PENETRATIONS THROUGH FOUNDATION WALL WITH ALL OTHER CONTRACTS. PROVIDE PIPE SLEEVES AND REINFORCEMENT AROUND PENETRATIONS AS PER DETAILS 5 AND 6 ON SHEET S 501.
- REFER TO 'A' DWGS FOR WATERPROOFING REQUIREMENTS.
- COORDINATE LOCATIONS OF REINFORCEMENT DOWELS INTO BUILDING WALLS WITH MASONRY TRADE.
- THE FOUNDATIONS SHALL BE CAST ON SUITABLE BEARING MATERIAL VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER/INSPECTOR. THE GEOTECHNICAL REPORT STATES A 6'-0" LAYER OF UNSUITABLE FILL. THE CONTRACTOR SHALL PROVIDE A UNIT PRICE IN \$/CU. YD FOR FILL REMOVAL ON THIS PROJECT ALONG WITH THE BID.
- SEE SLAB PLAN FOR ADDITIONAL SECONDARY AND STEM WALL CONCRETE POURS

FOOTING SCHEDULE

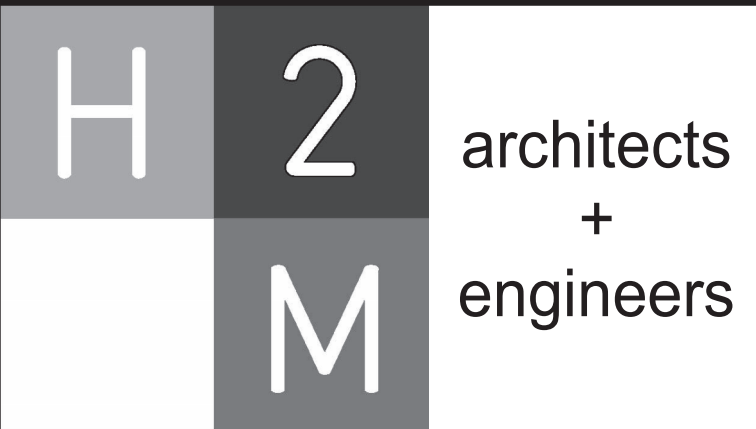
FOOTING TYPE	SIZE	THICKNESS	REINFORCEMENT	COMMENTS
F2.0xCONT.	2'-0"xCONT.	12"	#5 @ 12" O.C. SHORT & (3) #5 LONG	-
F3.0xCONT.	3'-0"xCONT.	12"	#5 @ 12" O.C. SHORT & (3) #5 LONG	-
F4.0x4.0	4'-0"x4'-0"	12"	(4) #5 BARS T&B	-
F5.0x5.0	5'-0"x5'-0"	12"	(5) #5 BARS T&B	-
F6.0x6.0	6'-0"x6'-0"	12"	(6) #5 BARS T&B	-
F6.5x6.5	6'-6"x6'-6"	12"	(6) #5 BARS T&B	-
F7.0x7.0	7'-0"x7'-0"	12"	(6) #5 BARS T&B	-
F7.5x7.5	7'-6"x7'-6"	15"	(8) #5 BARS B ONLY	-
F7.5x7.5A	7'-6"x7'-6"	15"	(8) #5 BARS T&B	-
F8.0x8.0	8'-0"x8'-0"	15"	(9) #5 BARS T&B	-
F8.0x8.0A	8'-0"x8'-0"	15"	(9) #5 BARS B. (6) #5 BARS T.	-
F8.5x8.5	8'-6"x8'-6"	15"	(9) #5 BARS T&B	-
F9.5x9.5	9'-6"x9'-6"	18"	(12) #5 BARS B ONLY	-
F10.0x10.0	10'-0"x10'-0"	18"	(13) #5 BARS B ONLY	-
F9.5x7.0	9'-6"x7'-0"	15"	(15) #5 BARS SHORT B ONLY (8) #5 T&B LONG	-
F11.5x8.5	11'-6"x8'-6"	15"	(16) #5 BARS SHORT B ONLY (9) #5 T&B LONG	-
F13.5x8.5	13'-6"x8'-6"	15"	(17) #5 BARS SHORT B ONLY (9) #5 T&B LONG	-
F15.0x7.5	15'-0"x7'-6"	15"	(19) #5 BARS SHORT B (10) #5 BARS SHORT T (10) #5 T&B LONG	-
MAT FOUNDATION	SEE PLAN	15"	#5 @ 10" B EACH WAY, #5 @ 12" T EACH WAY	-

PEDESTAL SCHEDULE

PEDESTAL TYPE	SIZE	STIRRUPS	LONG. REINF.	NOTES
P24x24	24" x 24"	#4 @ 10" O.C.	(8) #7	1, 3
P26x26	26" x 26"	#4 @ 10" O.C.	(8) #7	N/A
P32x32	32" x 32"	#4 @ 10" O.C.	(8) #7	2, 5
P28x24	28" x 24"	#3 @ 10" O.C.	(10) #7	1, 3
P32x26	32" x 26"	#3 @ 10" O.C.	(22) #7	1, 5
P34x24	34" x 24"	#4 @ 10" O.C.	(24) #7	1, 3
P34x26	34" x 26"	#4 @ 10" O.C.	(28) #7	1, 4
P38x24	38" x 24"	#3 @ 10" O.C.	(34) #7	1, 4
P40x30	40" x 30"	#3 @ 10" O.C.	(34) #7	N/A

NOTES:

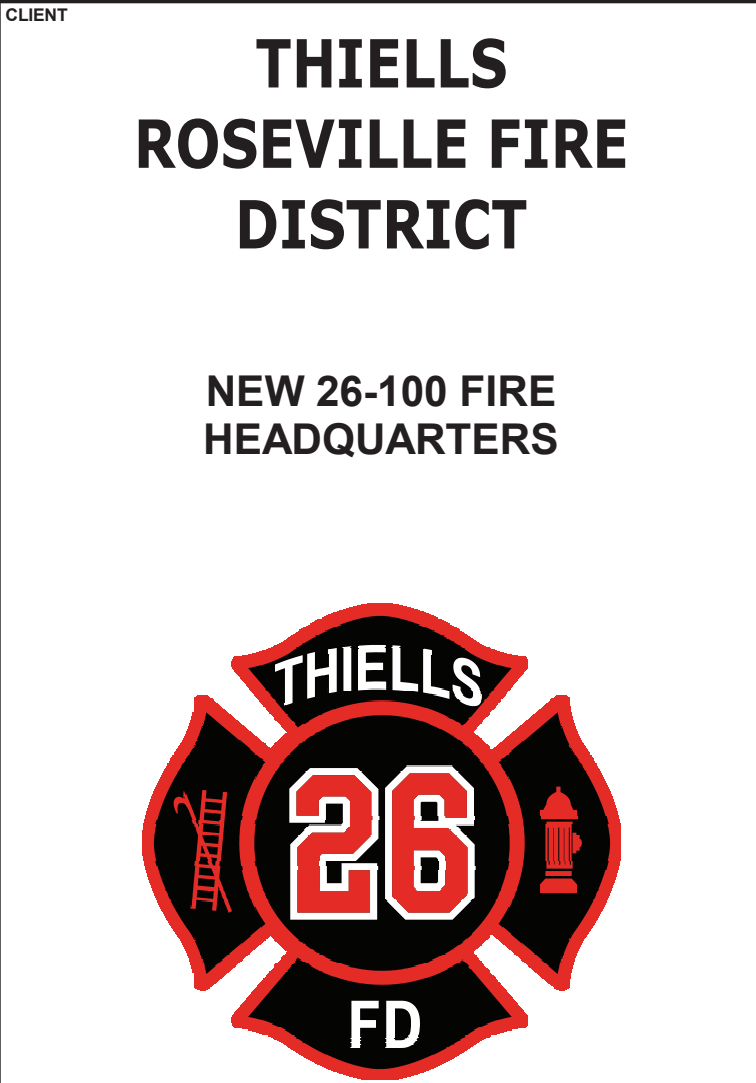
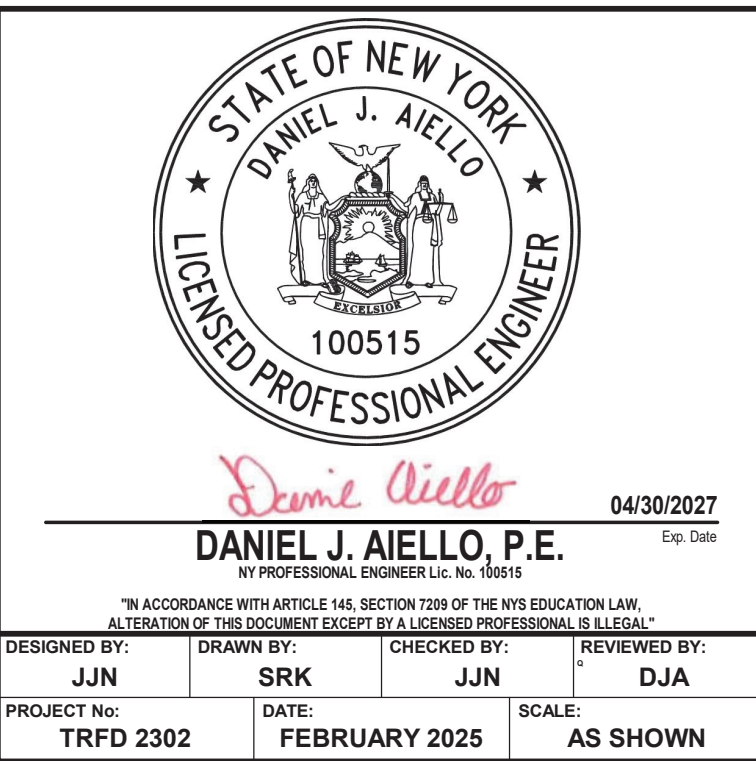
- PROVIDE ADDITIONAL TENSION REINFORCEMENT: (4) #7 VERTICAL BARS
- PROVIDE ADDITIONAL TENSION REINFORCEMENT: (6) #7 VERTICAL BARS
- PROVIDE ADDITIONAL SHEAR REINFORCEMENT: (4) #4 STIRRUPS @ 3" O.C. TOP
- PROVIDE ADDITIONAL SHEAR REINFORCEMENT: (6) #4 STIRRUPS @ 3" O.C. TOP
- PROVIDE ADDITIONAL SHEAR REINFORCEMENT: (8) #4 STIRRUPS @ 3" O.C. TOP



538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
631.756.8000 • www.h2m.com
NY Architecture & Landscape Architecture: No Certificate Required
NY Engineering Certificate of Authorization No.: 0018178

CONSULTANTS:

MARK	DATE	DESCRIPTION



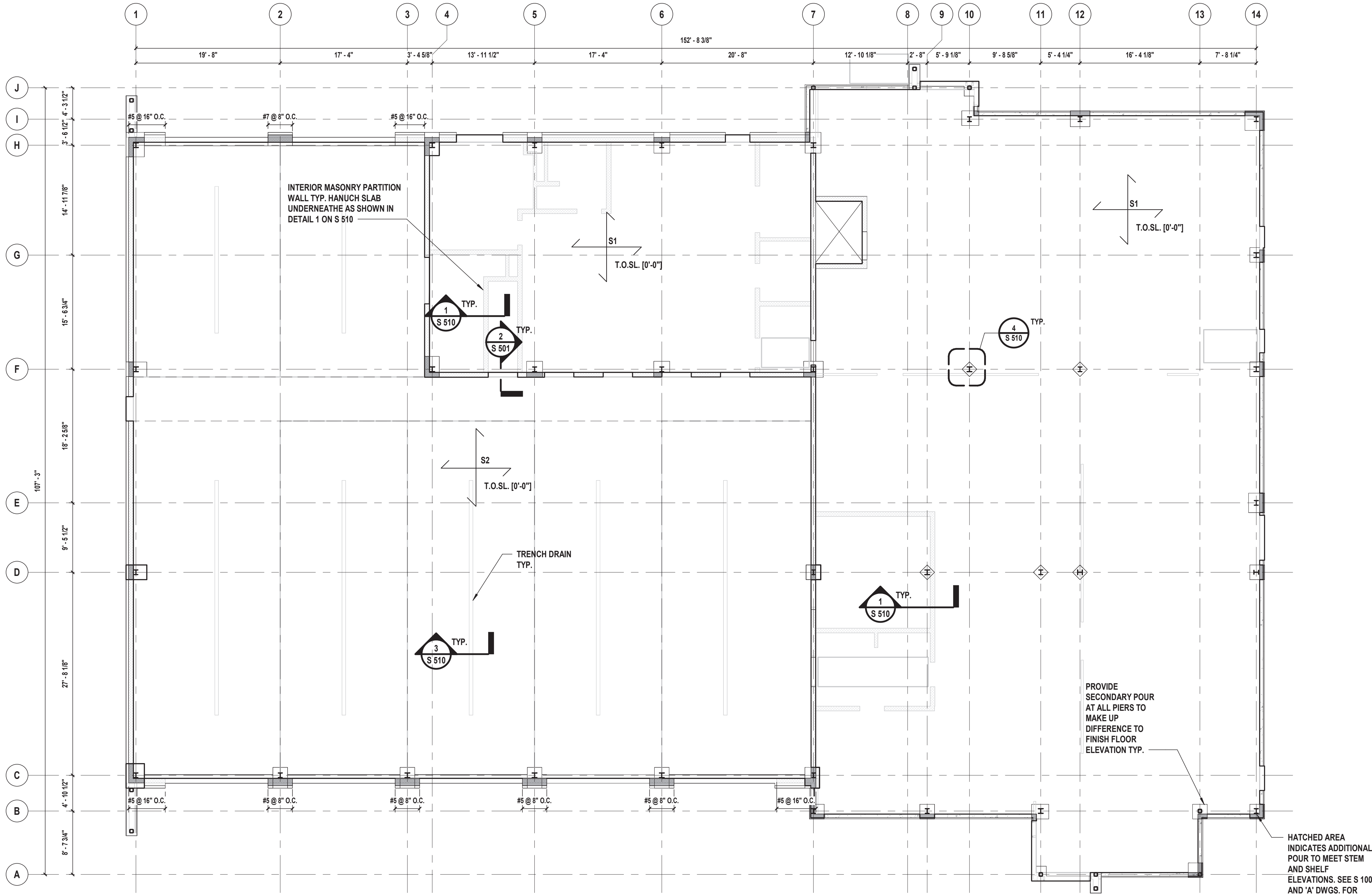
65 W RAMAPO ROAD
GARNERVILLE, NY 10923

CONTRACT
CONTRACT G
GENERAL CONSTRUCTION

STATUS
FINAL BID DOCUMENT

SHEET TITLE
FOUNDATION PLAN

DRAWING No.
S 100.00



NOTE: PLACE SLAB RE-ENTRANT BARS AT ALL SLAB RE-ENTRANT CORNERS AS PER S/S 510

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

MASONRY NOTES:

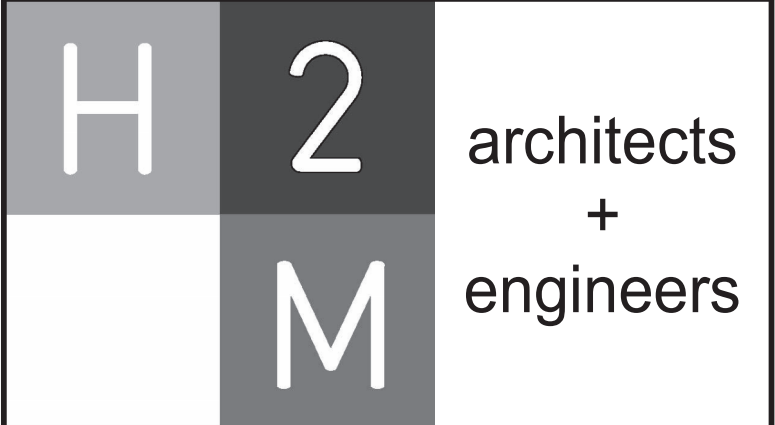
- ELEVATIONS SHALL BE ESTABLISHED RELATIVE TO FINISHED FIRST FLOOR ELEVATION [0'-0"].
- 1.1 INDICATES CMU WALL (SEE 'A' DWGS FOR SIZE) REINFORCED VERTICALLY WITH #5 BARS SPACED AT A MAXIMUM SPACING OF 32" O.C., TYPICAL, UNLESS OTHERWISE NOTED.
- FILL ALL MASONRY CELLS CONTAINING REINFORCEMENT SOLID WITH GROUT, TYPICAL.
- AT EACH SIDE OF MASONRY OPENINGS, FILL TWO CELLS WITH GROUT AND (1) #5 MIN. PER CELL VERTICALLY UNLESS NOTED OTHERWISE. AT CORNERS OF MASONRY WALLS, CORNER CELL AND ONE ADJACENT CELL TO EACH SIDE OF CORNER (3 TOTAL) ARE TO BE FILLED WITH GROUT AND (1) #5 MIN. PER CELL FROM FOOTING INTO UPPERMOST BOND BEAM UNLESS NOTED OTHERWISE. FOR WALLS WITH LARGER REBAR INDICATED IN SCHEDULE USE THE LARGER REBAR.
- REFER TO 'A' DWGS. AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT OUTLINED HERE.
- ALL VERTICAL REINFORCEMENT INTERRUPTED BY STRUCTURAL STEEL SHALL BE WELDED TO TOP OF STEEL MEMBERS, TYPICAL.
- COORDINATE PLACEMENT OF VERTICAL WALL DOWELS EMBEDDED INTO FOUNDATION WALLS AND FLOOR SLABS WITH CELLS OF MASONRY WALL. DOWEL SPACING TO MATCH SPACING OF VERTICAL REINFORCEMENT IN WALLS, TYPICAL.
- REFER TO 'A' DWGS. FOR LOCATIONS AND BRACING REQUIREMENTS OF INTERIOR MASONRY WALLS.
- ALL INTERIOR STRUCTURAL MASONRY WALLS SHALL BE REINFORCED VERTICALLY WITH #5 @ 48" O.C., CENTERED IN FULLY GROUTED CELL, TYPICAL U.O.N.
- PROVIDE LADDER TYPE HORIZONTAL JOINT REINFORCING IN ALL WALLS AT 16" O.C., MAXIMUM, U.O.N.
- BOND BEAMS REINFORCED WITH (1) #5 BAR, CONTINUOUS, SHALL BE PLACED AT EACH FLOOR LEVEL AND AT TOP OF WALL, U.O.N.

NOTES:

- ELEVATIONS SHOWN THUS [] ARE RELATIVE TO FINISHED FIRST FLOOR ELEVATION [0'-0"].
- INDICATES 6" CONCRETE SLAB ON GRADE REINFORCED WITH 6x6 - W2.9xW2.9 W.W.F.
- INDICATES SPAN OF 8" CONCRETE SLAB ON GRADE, REINFORCED WITH 6x6 - W4.0xW4.0 W.W.F. TOP & BOTTOM, MAINTAIN THICKNESS THROUGH PITCHED AREAS
- PROVIDE 1/2" PRE-MOLDED EXPANSION JOINT AROUND PERIMETER OF CONCRETE SLAB ON METAL DECK AND SLAB ON GRADE WHERE IT ABUTS THE FOUNDATION WALL OF THE BUILDING.
- COORDINATE LOCATIONS OF INTERIOR MASONRY WALLS WITH 'A' DWGS. PROVIDE #5 DOWELS, 1'-4" x 6" LG. @ 48" O.C. TO BE EMBEDDED INTO CONCRETE FLOOR SLAB.

LEGEND:

- C.J. = CONTROL JOINT
E.J. = 1/2" PREMOLDED EXPANSION JOINT
E.O.S. = EDGE OF SLAB
T.O.S. = TOP OF SLAB
U.O.N. = UNLESS OTHERWISE NOTED
H.P. = HIGH POINT OF PITCHED SLAB
L.P. = LOW POINT OF PITCHED SLAB
 INDICATES PITCH DIRECTION OF SLAB
 INDICATES CHANGE IN SLAB ELEVATION



538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
631.755.8000 • www.h2m.com
NY Architecture & Landscape Architecture: No Certificate Required
NY Engineering Certificate of Authorization No.: 0018178

CONSULTANTS:

MARK	DATE	DESCRIPTION



CLIENT

**THIELLS
ROSEVILLE FIRE
DISTRICT**

**NEW 26-100 FIRE
HEADQUARTERS**

**65 W RAMAPO ROAD
GARNERVILLE, NY 10923**

CONTRACT

**CONTRACT G
GENERAL CONSTRUCTION**

STATUS

FINAL BID DOCUMENT



SHEET TITLE

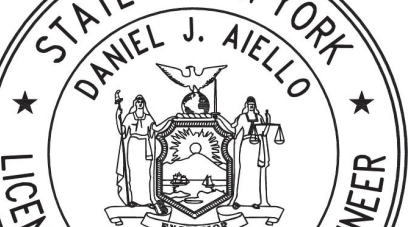
SLAB PLAN

DRAWING No.

S 110.00



-  = HANGER BELOW
 = CARRIED COLUMN/HANGER ABOVE
E.O.S. = EDGE OF SLAB



Dan Aiello

DANIEL J. AIELLO, P.E.

NY PROFESSIONAL ENGINEER LIC. NO. 100515

"IN ACCORDANCE WITH ARTICLE 166, SECTION 7(1) OF THE NY E&C LAW, ANY ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL."

04/30/2027

Exp. Date

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
JUN	SRK	JUN	DJA
PROJECT NO:		SCALE:	
TRFD 2302		AS SHOWN	
DATE:		DATE:	
FEBRUARY 2025		FEBRUARY 2025	

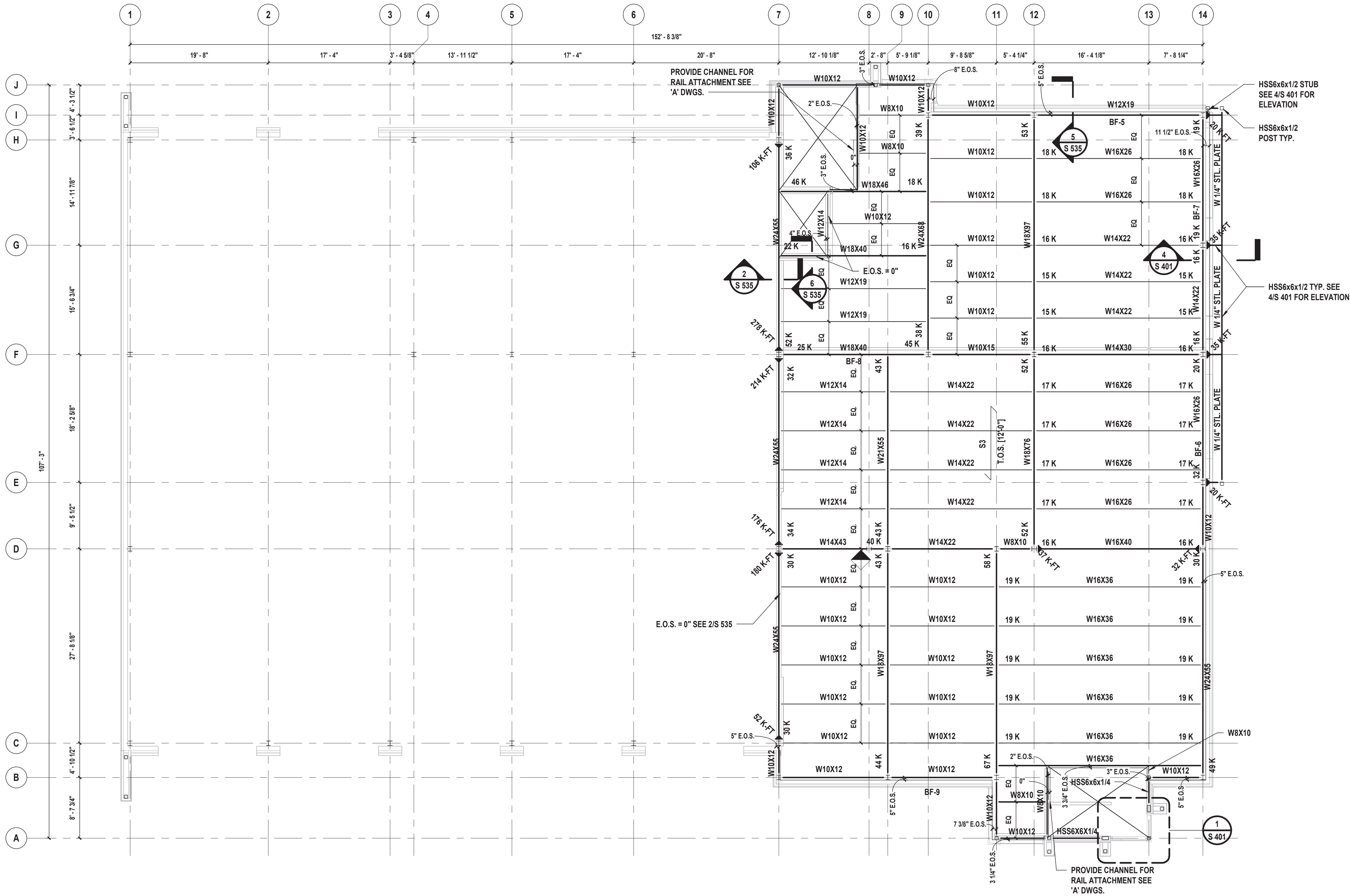
65 W RAMAPO ROAD
GARNERVILLE, NY 10923

**CONTRACT G
GENERAL CONSTRUCTION**



FINAL BID DOCUMENT

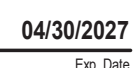
STORAGE MEZZANINE FRAMING PLAN

S 120.00





- LEGEND:**
-  = HANGER BELOW
-  = CARRIED COLUMN/HANGER ABOVE
- E.O.S. = EDGE OF SLAB

[illegible]

DANIEL J. AIELLO, P.E.			Exp. Date
NY PROFESSIONAL ENGINEER Lic. No. 100615			
"IN ACCORDANCE WITH ARTICLE 145, SECTION 7209 OF THE NYS EDUCATION LAW, ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL."			
DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
JJN	SRK	JJN	DJA
PROJECT No:	DATE:	SCALE:	
TRFD 2302	FEBRUARY 2025	AS SHOWN	

**THIELLS
ROSEVILLE FIRE
DISTRICT**

**NEW 26-100 FIRE
HEADQUARTERS**



65 W RAMAPO ROAD
GARNERVILLE, NY 10923

CONTRACT

CONTRACT G
GENERAL CONSTRUCTION

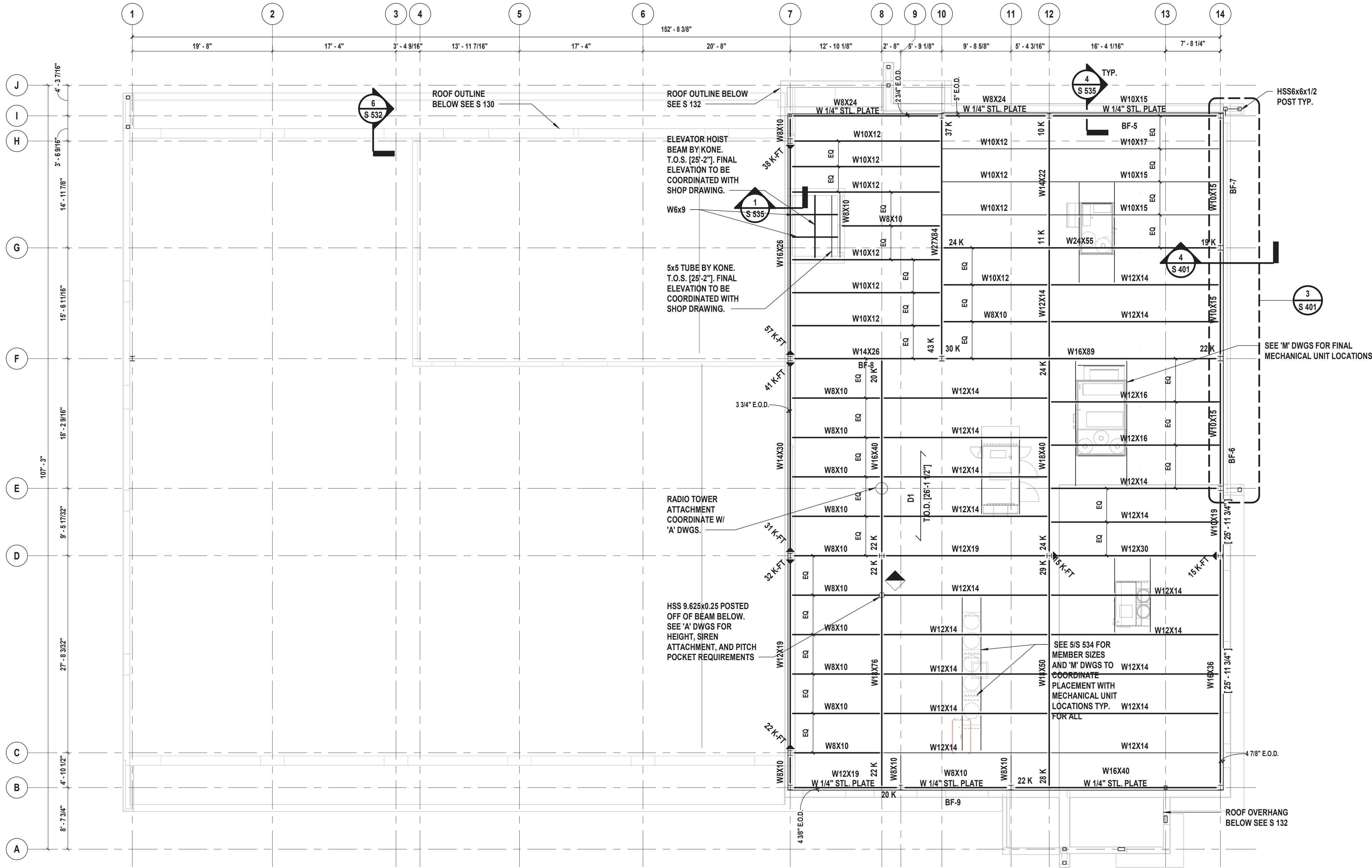
STATUS	FINAL BID DOCUMENT
--------	--------------------

SHEET TITLE

LOW ROOF FRAMING PLAN

DRAWING No.

S 130.00



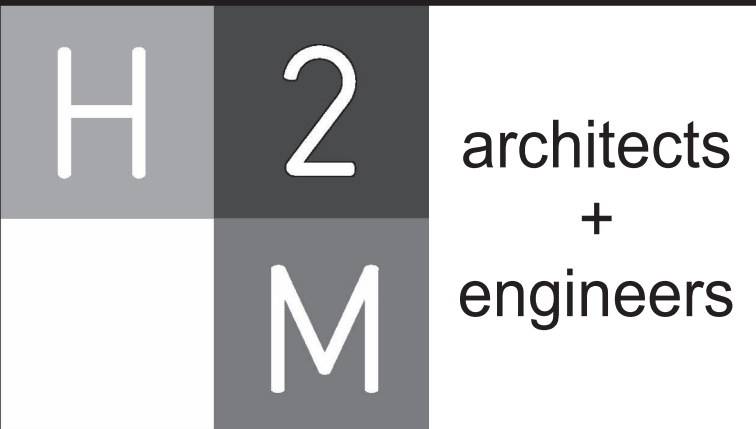
1 High Roof Framing Plan
SCALE: 1/8" = 1'-0"

NOTES:

- TOP OF STEEL SHALL BE SET AT [26'-0"] ABOVE FINISHED FIRST FLOOR ELEVATION UNLESS OTHERWISE NOTED AS THUS [].
- D1 INDICATES SPAN OF 1.5B-36 19GA. ROOF DECK BY VULCRAFT NUCOR OR APPROVED EQUAL.
- INSTALL BRIDGING FOR BAR JOISTS AS PER S.J.I. REQUIREMENTS.
- SEE 'A' DWGS FOR EDGE OF DECK DIMENSIONS.
- INDICATES BEAM TO COLUMN MOMENT CONNECTION WITH THE NUMBER REPRESENTING THE L.R.F.D. DESIGN MOMENT IN FT-KIPS.
- STEEL CONNECTION PIECE DETAILS SHALL BE SUBMITTED WITH CALCULATIONS SIGNED AND SEALED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER. CONNECTION DESIGNER SHALL DESIGN ALL MOMENT CONNECTIONS AND SIMPLE SHEAR CONNECTIONS, WHERE DESIGN SHEAR REACTION IS NOT LISTED ON DRAWINGS, IT SHALL BE TAKEN AS 15 KIPS LRFD. WHERE AXIAL FORCE IN BEAMS IS NOT LISTED IN DRAWINGS, IT SHALL BE TAKEN AS 15 KIPS LRFD. ALL CONNECTIONS SHALL BE DESIGNED CONSIDERING AXIAL, SHEAR AND MOMENT FORCES SIMULTANEOUSLY AS REQUIRED BY BUILDING CODE. SEE STRUCTURAL STEEL SPECIFICATIONS FOR ADDITIONAL DESIGN LOADING REQUIREMENTS.
- COORDINATE DIMENSIONS OF STAIR LANDING FRAMING WITH STAIR MANUFACTURER. SEE 'A' DWGS. FOR ADDITIONAL INFORMATION.

LEGEND:

- HANGER BELOW
- CARRIED COLUMN/HANGER ABOVE
- E.O.S. = EDGE OF SLAB



538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
631.756.8000 • www.h2m.com
NY Architecture & Landscape Architecture: No Certificate Required
NY Engineering Certificate of Authorization No.: 0018178

CONSULTANTS:

MARK	DATE	DESCRIPTION

STATE OF NEW YORK
DANIEL J. AIELLO
LICENSED PROFESSIONAL ENGINEER
100515
04/30/2027
Exp. Date
DESIGNED BY: JJN
DRAWN BY: SRK
CHECKED BY: JJN
REVIEWED BY: DJA
PROJECT No: TRFD 2302
DATE: FEBRUARY 2025
SCALE: AS SHOWN

CLIENT
**THIELLS
ROSEVILLE FIRE
DISTRICT**

NEW 26-100 FIRE
HEADQUARTERS

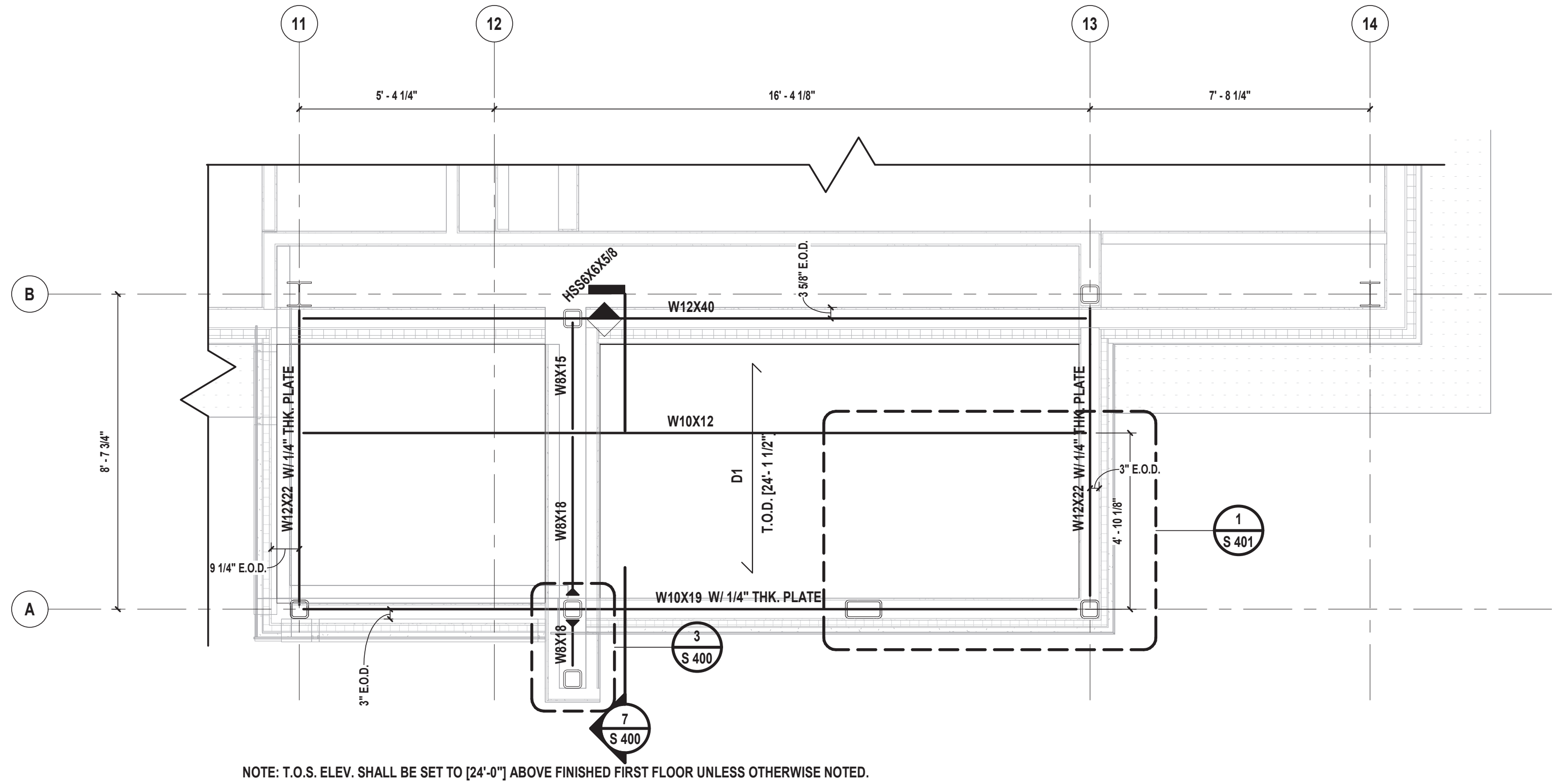
65 W RAMAPO ROAD
GARNERVILLE, NY 10923

CONTRACT
**CONTRACT G
GENERAL CONSTRUCTION**

STATUS
FINAL BID DOCUMENT

SHEET TITLE
HIGH ROOF FRAMING PLAN

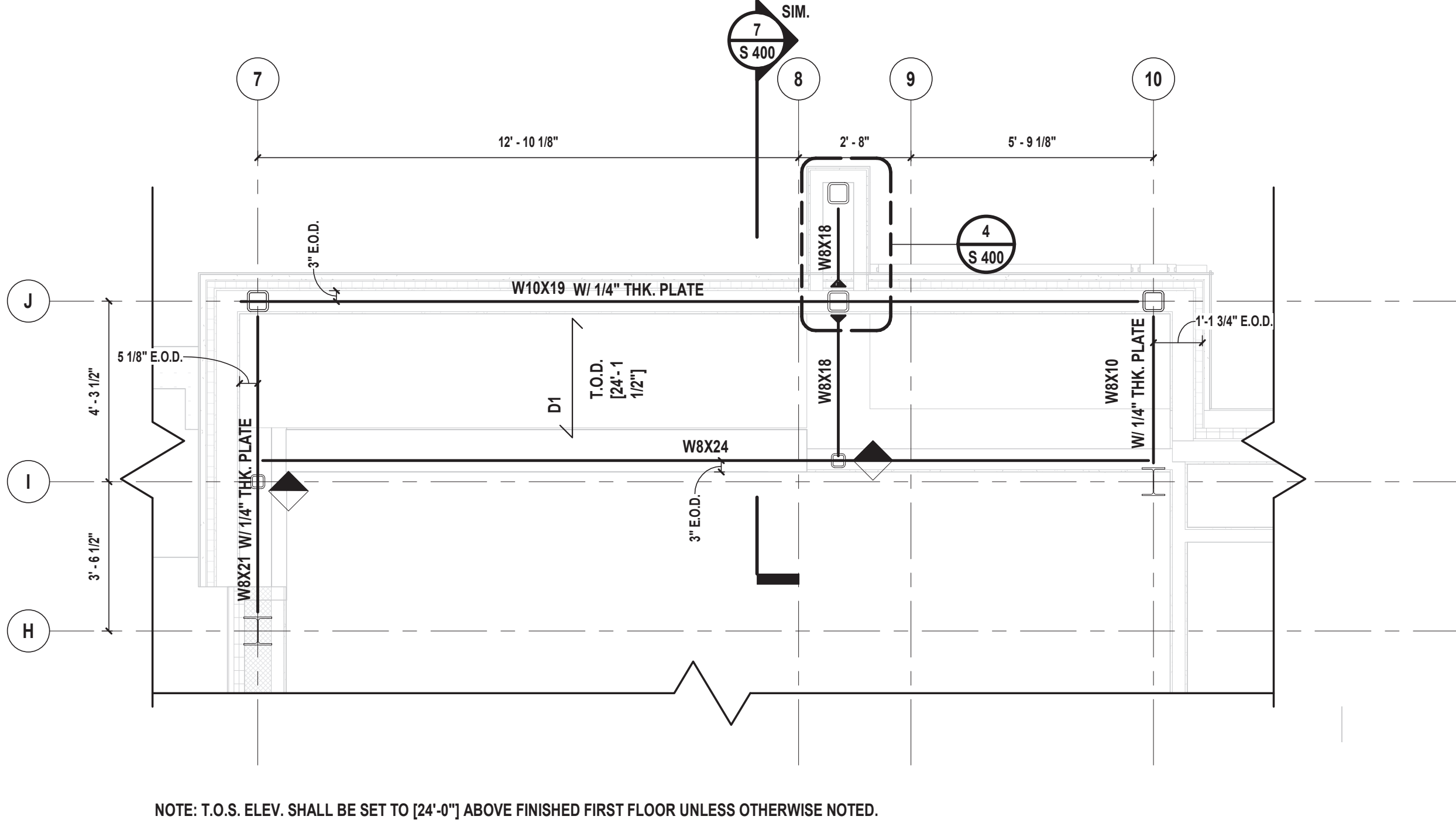
DRAWING No.
S 131.00



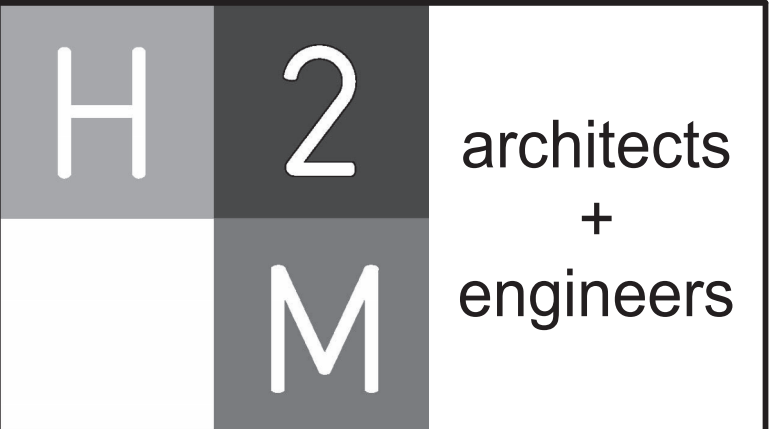
1 Roof Framing Plan at Stair A
SCALE: 3/8" = 1'-0"

- NOTES:
- SEE NOTES ON PLAN VIEWS FOR T.O.S. ELEVATIONS.
 - D1 INDICATES SPAN OF 1.5B-36 19GA. ROOF DECK BY VULCRAFT NUCOR OR APPROVED EQUAL
 - SEE PLAN FOR EDGE OF DECK DIMENSIONS.
 - INDICATES BEAM TO COLUMN MOMENT CONNECTION WITH THE NUMBER REPRESENTING THE L.R.F.D. DESIGN MOMENT IN FT-KIPS.
 - STEEL CONNECTION PIECE DETAILS SHALL BE SUBMITTED WITH CALCULATIONS SIGNED AND SEALED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER. CONNECTION DESIGNER SHALL DESIGN ALL MOMENT CONNECTIONS AND SIMPLE SHEAR CONNECTIONS. WHERE DESIGN SHEAR REACTION IS NOT LISTED ON DRAWINGS, IT SHALL BE TAKEN AS 15 KIPS LRFD. WHERE AXIAL FORCE IN BEAMS IS NOT LISTED IN DRAWINGS, IT SHALL BE TAKEN AS 15 KIPS LRFD. ALL CONNECTIONS SHALL BE DESIGNED CONSIDERING AXIAL, SHEAR AND MOMENT FORCES SIMULTANEOUSLY AS REQUIRED BY BUILDING CODE. SEE STRUCTURAL STEEL SPECIFICATIONS FOR ADDITIONAL DESIGN LOADING REQUIREMENTS.
 - COORDINATE DIMENSIONS OF STAIR LANDING FRAMING WITH STAIR MANUFACTURER. SEE 'A' DWGS. FOR ADDITIONAL INFORMATION.

- LEGEND:
- HANGER BELOW
 - CARRIED COLUMN/HANGER ABOVE
 - E.O.S. = EDGE OF SLAB




2 Roof Framing Plan at Stair B
SCALE: 3/8" = 1'-0"



538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
631.756.8000 • www.h2m.com
NY Architecture & Landscape Architecture: No Certificate Required
NY Engineering Certificate of Authorization No.: 0018178

CONSULTANTS:		

MARK	DATE	DESCRIPTION



DANIEL J. AIELLO, P.E.
NY PROFESSIONAL ENGINEER L.C. No. 100515
Exp. Date: 04/30/2027

IN ACCORDANCE WITH ARTICLE 146, SECTION 2209 OF THE NYS EDUCATION LAW, ALTACTION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL, IS ILLEGAL.

DESIGNED BY: JJN	DRAWN BY: JJN	CHECKED BY: TZY	REVIEWED BY: DJA
PROJECT No: TRFD 2302	DATE: FEBRUARY 2025	SCALE: AS SHOWN	

CLIENT

**THIELLS
ROSEVILLE FIRE
DISTRICT**

**NEW 26-100 FIRE
HEADQUARTERS**



**65 W RAMAPO ROAD
GARNERVILLE, NY 10923**

CONTRACT

CONTRACT G

STATUS

FINAL BID DOCUMENT

SHEET TITLE


STAIR ROOF FRAMING PLANS

DRAWING No.

S 132.00

CONSULTANTS:		

MARK	DATE	DESCRIPTION



Daniel Aiello
DANIEL J. AIELLO, P.E.
NY PROFESSIONAL ENGINEER L.C. No. 100515
04/30/2027
Exp. Date

IN ACCORDANCE WITH ARTICLE 145, SECTION 2209 OF THE NYS EDUCATION LAW,
A FALSIFICATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL, IS ILLEGAL.

DESIGNED BY: JJN	DRAWN BY: SRK	CHECKED BY: JJN	REVIEWED BY: DJA
PROJECT No: TRFD 2302	DATE: FEBRUARY 2025	SCALE: AS SHOWN	

CLIENT

**THIELLS
ROSEVILLE FIRE
DISTRICT**

NEW 26-100 FIRE
HEADQUARTERS



65 W RAMAPO ROAD
GARNERVILLE, NY 10923

CONTRACT

CONTRACT G

STATUS

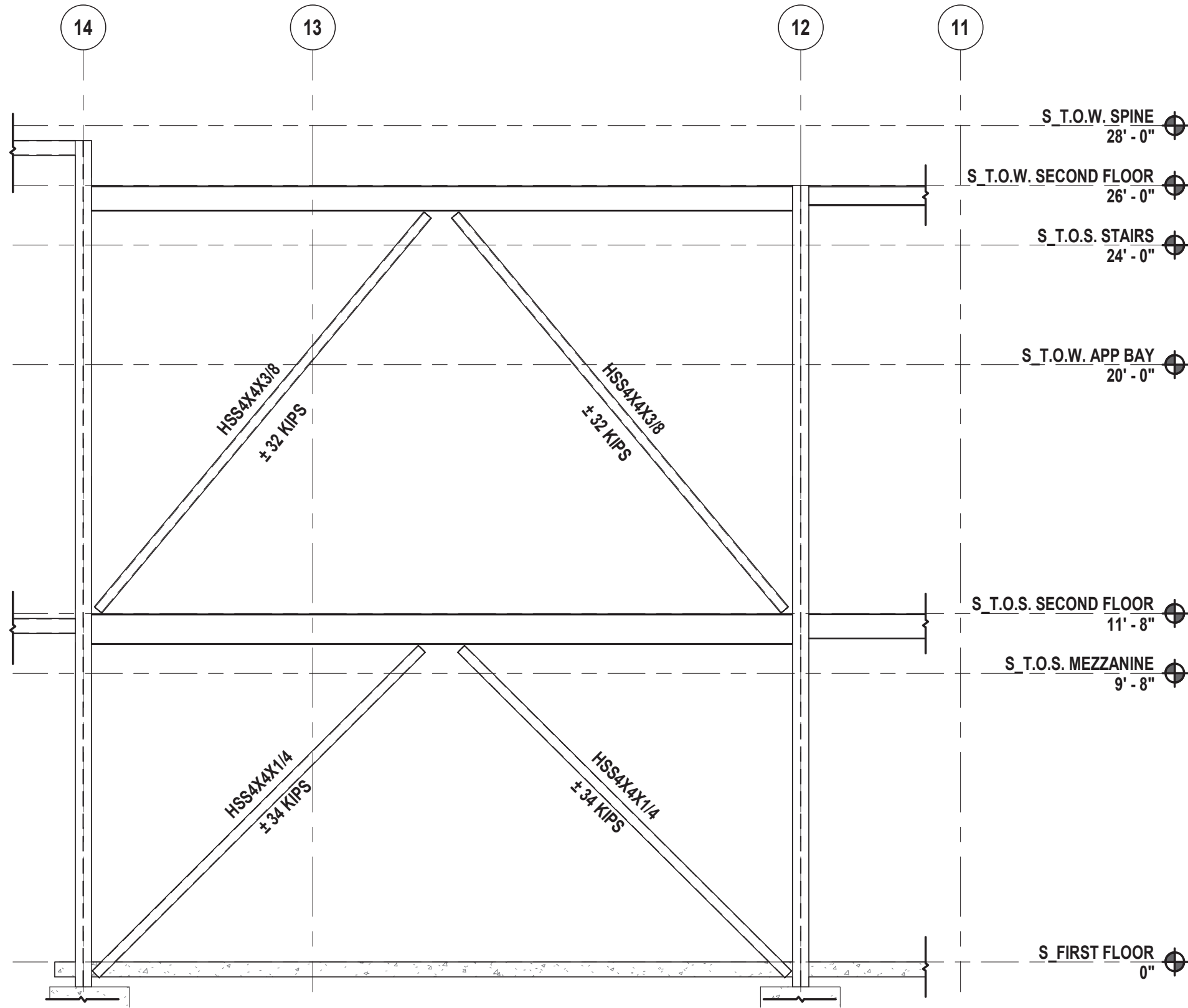
FINAL BID DOCUMENT

SHEET TITLE

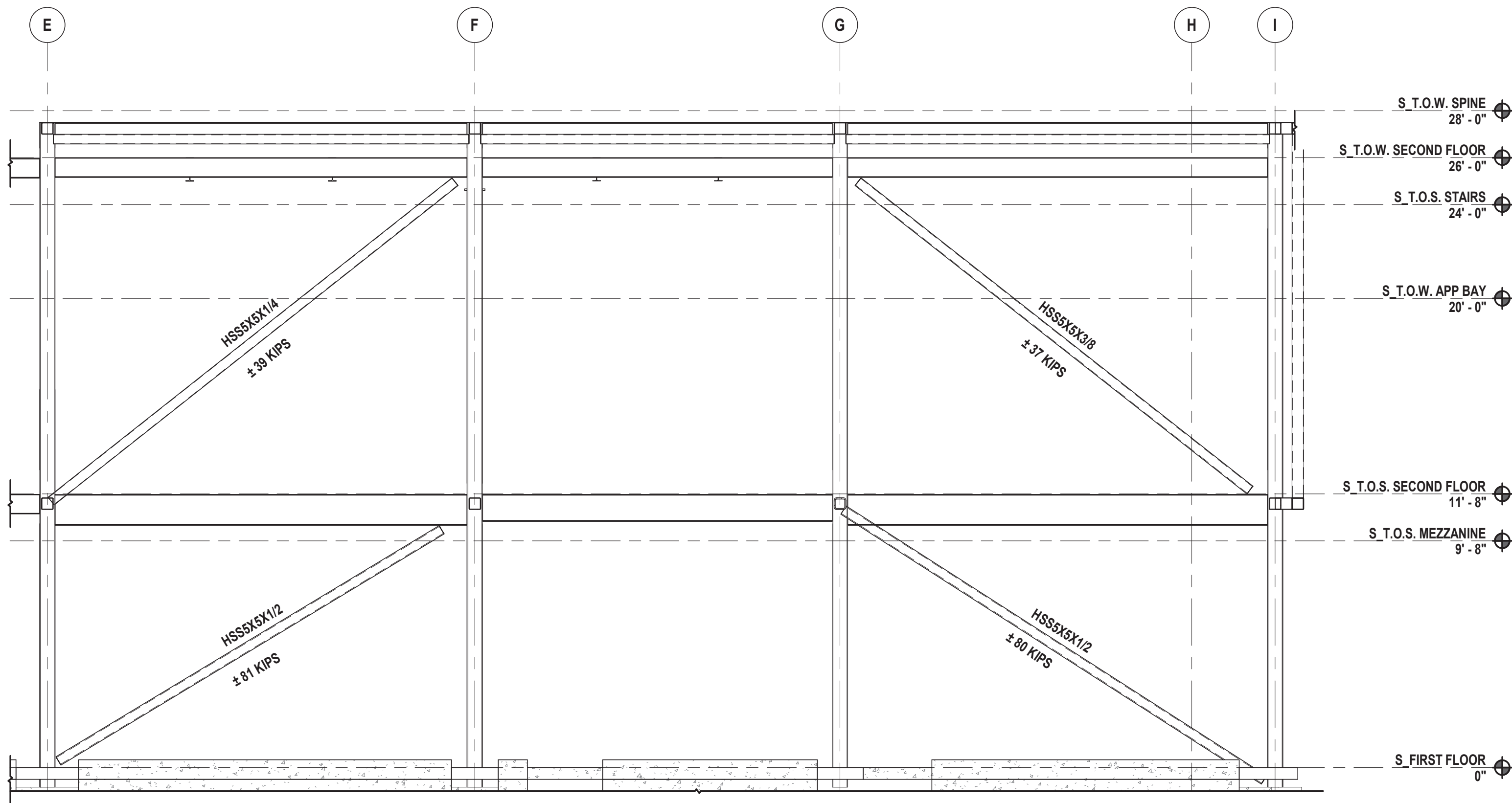
BRACED FRAME ELEVATIONS

DRAWING No.

S 301.00



1 BF-5 Elevation
SCALE: NTS

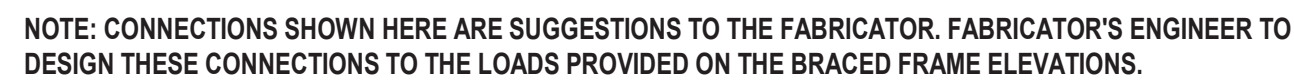


2 BF-6 and BF-7 Elevation
SCALE: NTS



3 Base Bracing Connection

SCALE: 1" = 1'-0"



4 Beam Bracing Connection



CONSULTANTS:		

MARK	DATE	DESCRIPTION

STATE OF NEW YORK

DANIEL J. AIELLO

100515

PROFESSIONAL ENGINEER

Daniele Aiello

DANIEL J. AIELLO, P.E.

NY PROFESSIONAL ENGINEER L.I.C. No. 100515

04/30/2027

Exp. Date

IN ACCORDANCE WITH ARTICLE 146, SECTION 2209 OF THE NYS EDUCATION LAW,
ALTAUTION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL.

DESIGNED BY: JJN
PROJECT No: TRFD 2302

DRAWN BY: JJN
DATE: FEBRUARY 2025

CHECKED BY: DJA
SCALE: AS SHOWN

REVIEWED BY: DJA

CLIENT

THIELLS
ROSEVILLE FIRE
DISTRICT

NEW 26-100 FIRE
HEADQUARTERS

THIELLS

26

FD

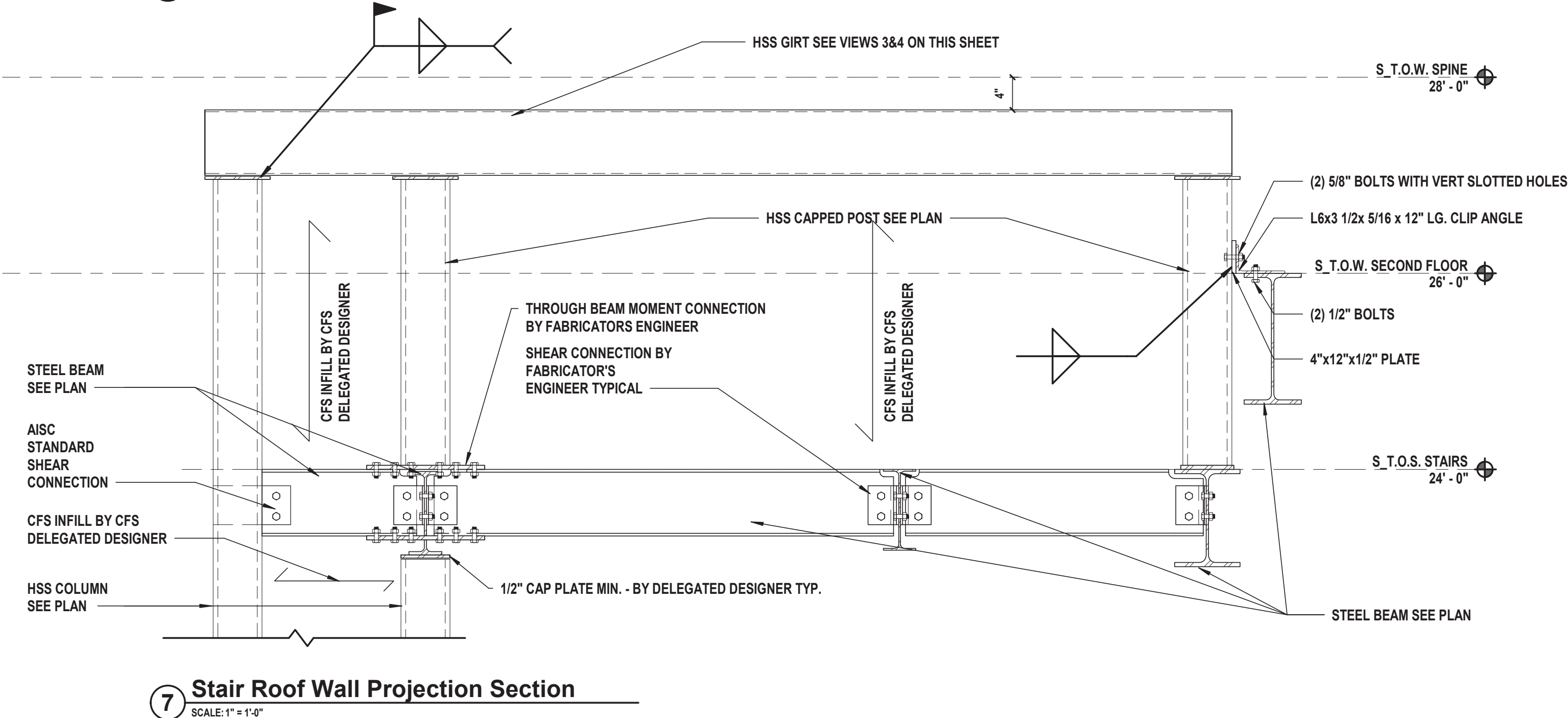
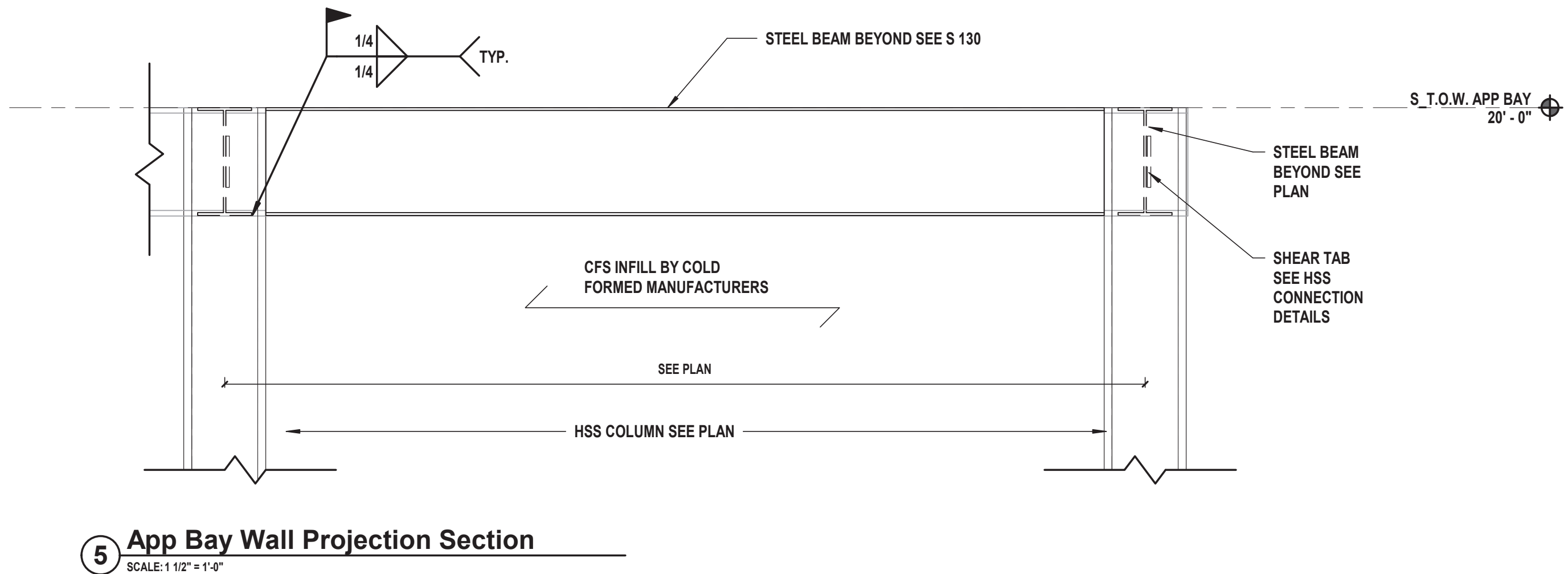
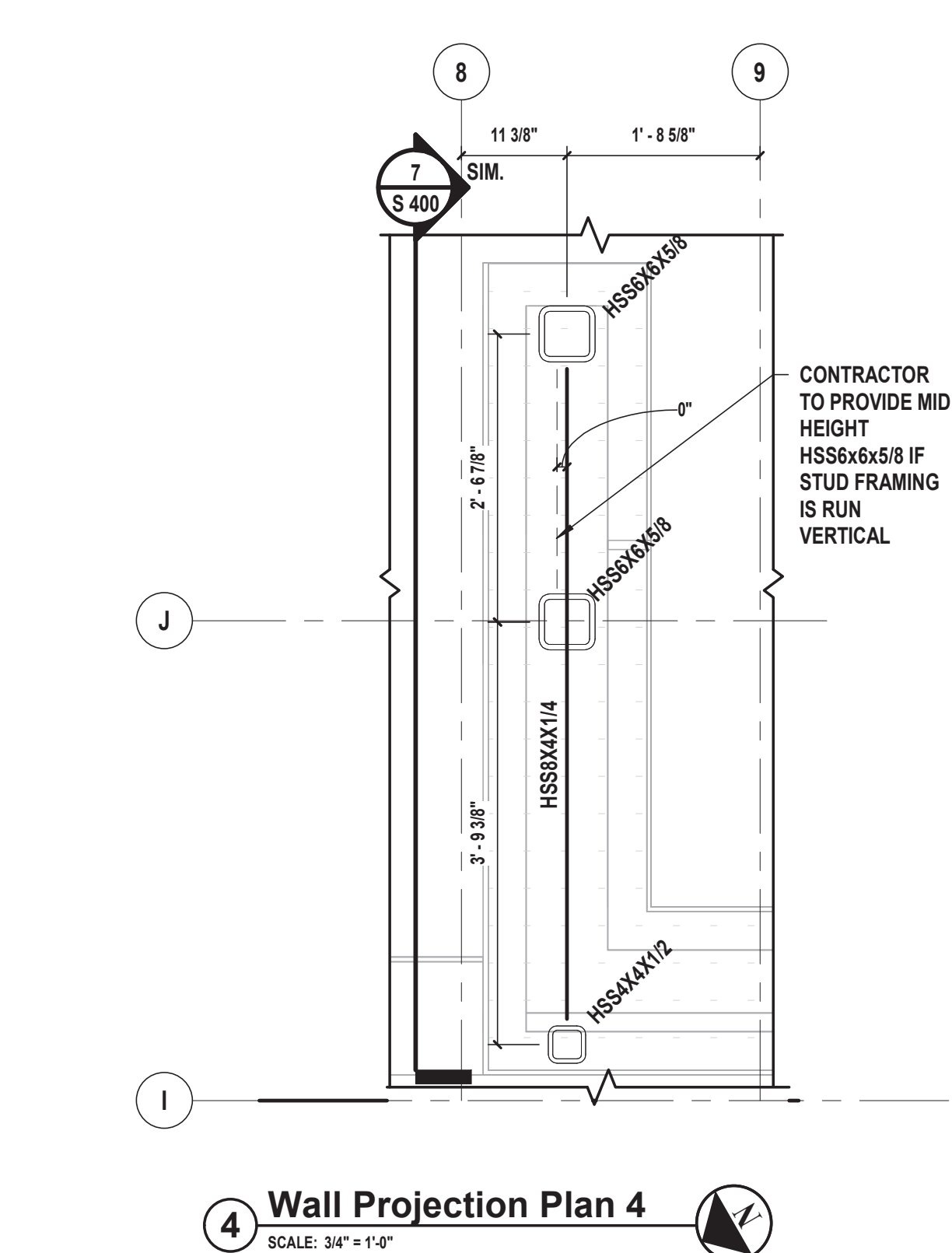
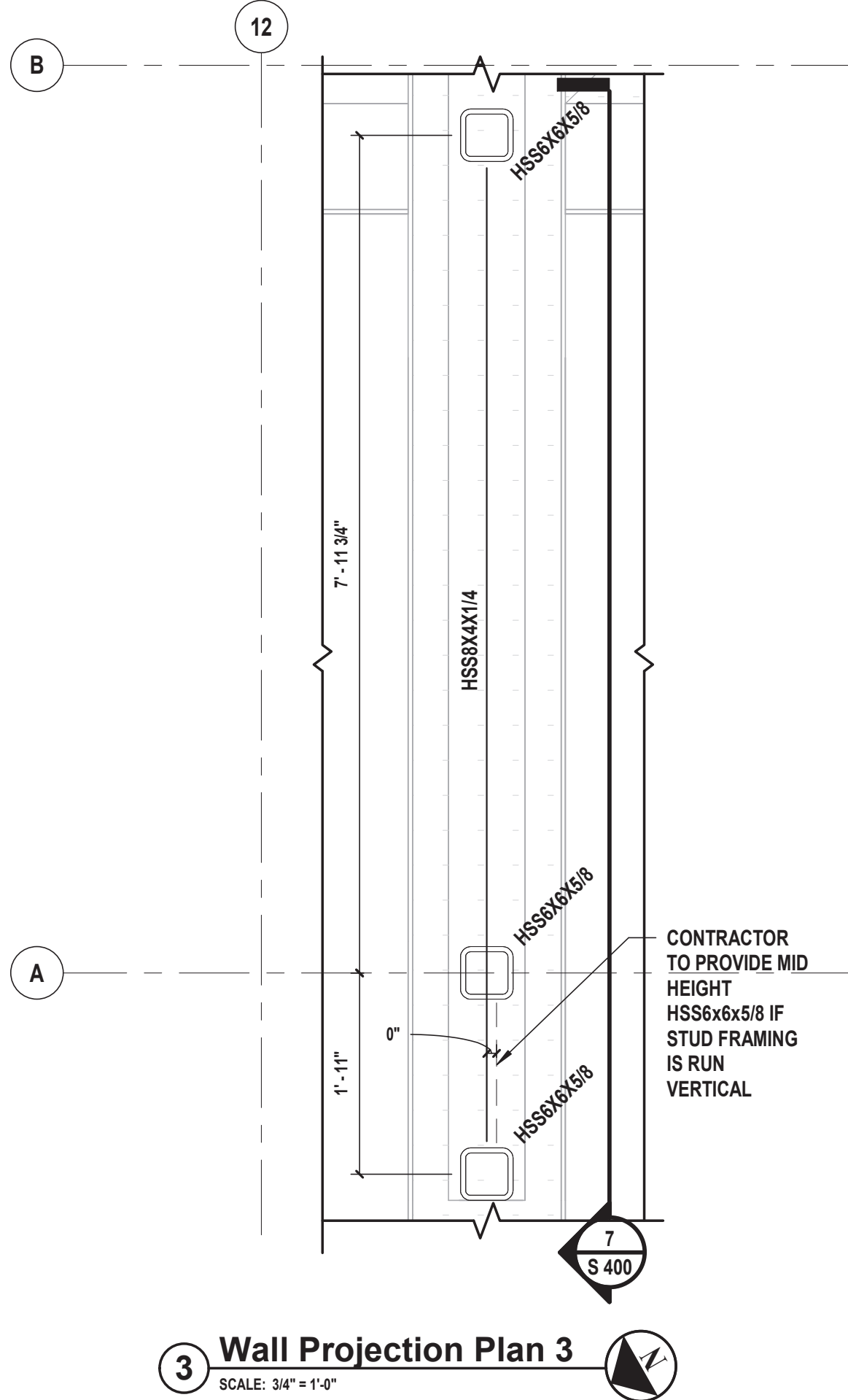
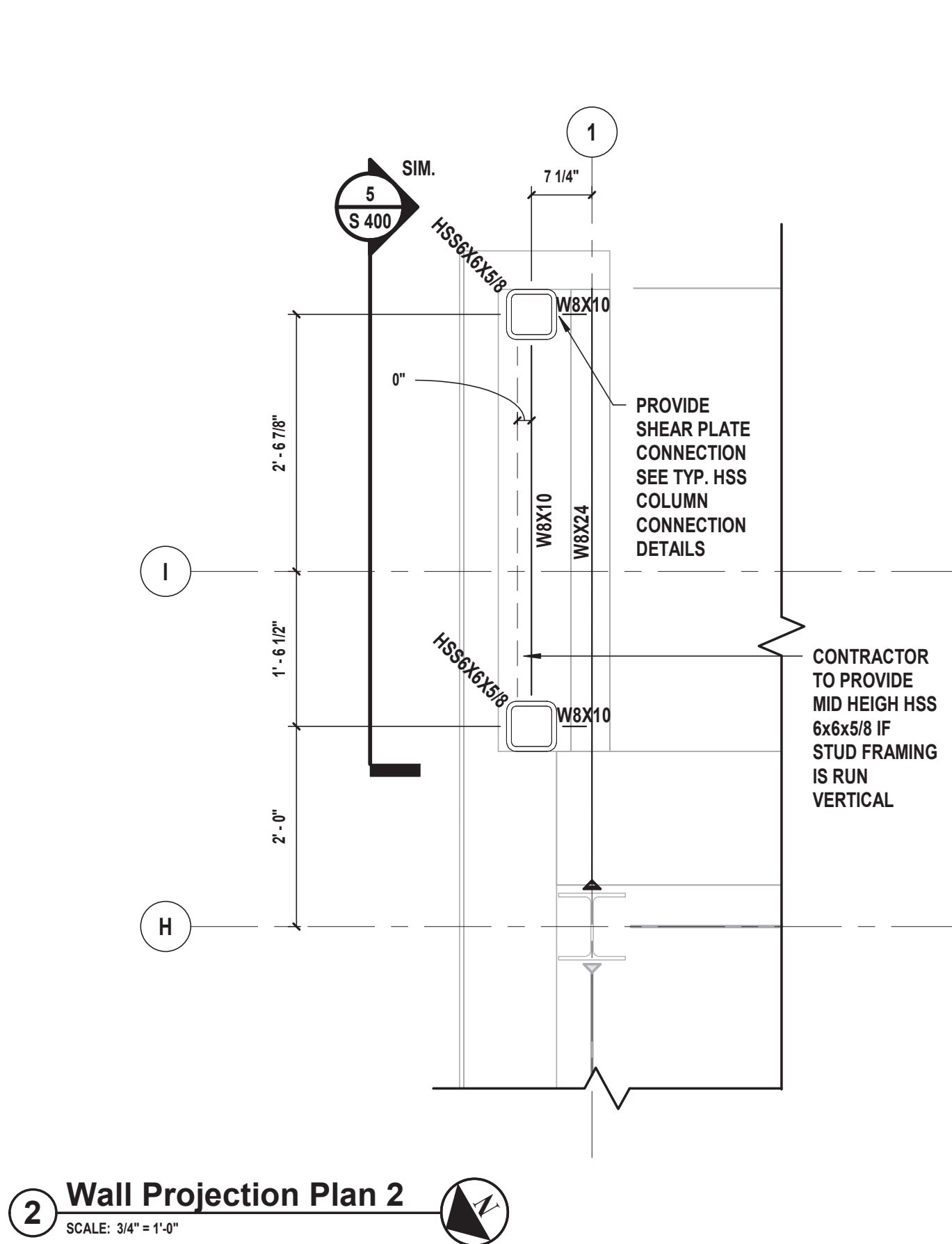
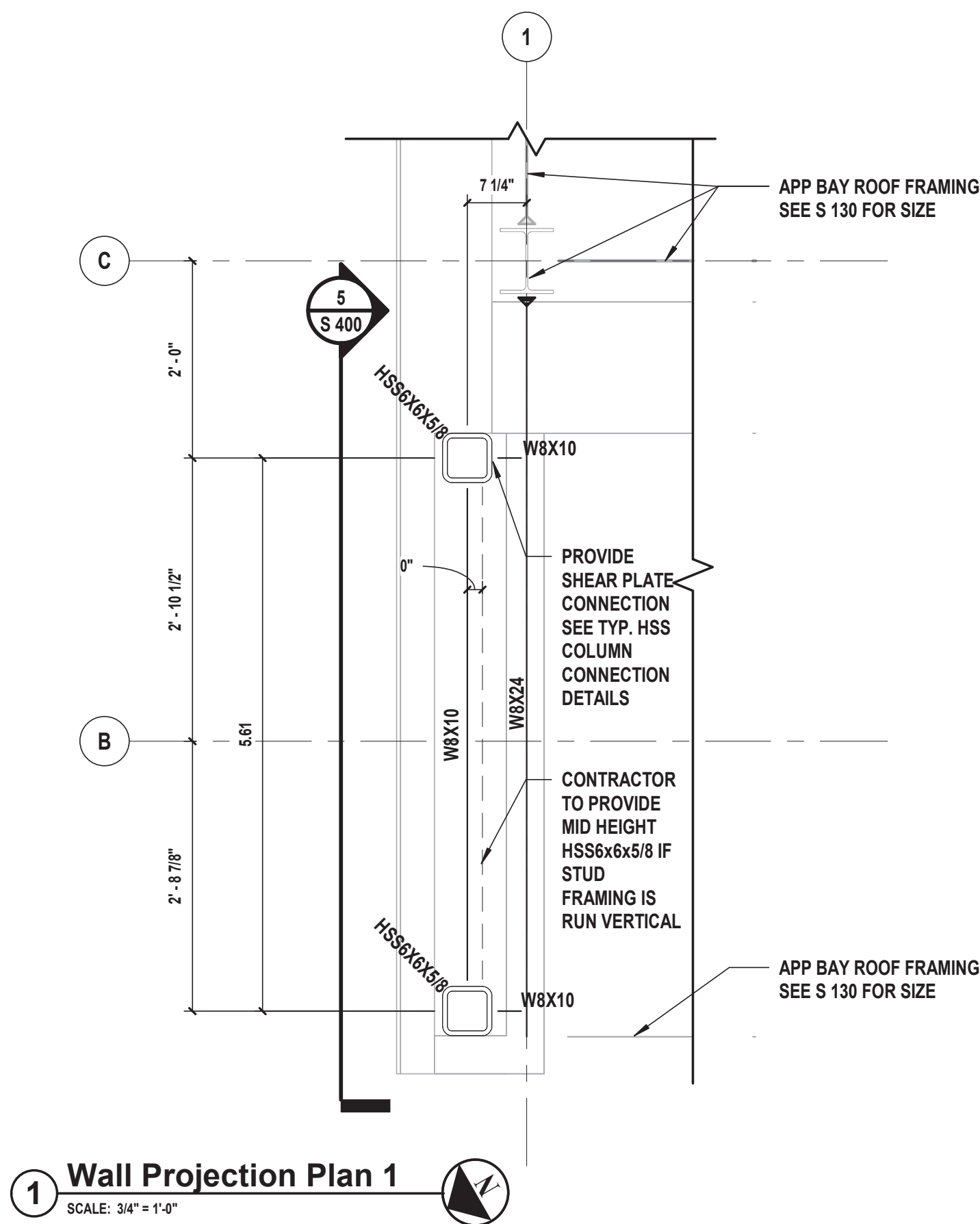
65 W RAMAPO ROAD
GARNERVILLE, NY 10923

CONTRACT
CONTRACT G

STATUS
FINAL BID DOCUMENT

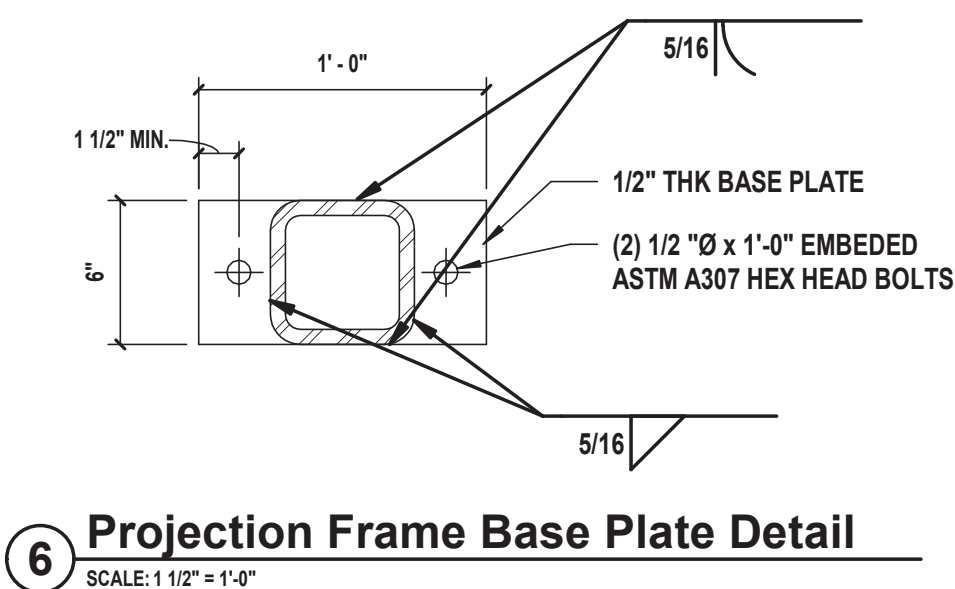
SHEET TITLE
WALL PROJECTION PLANS AND SECTIONS

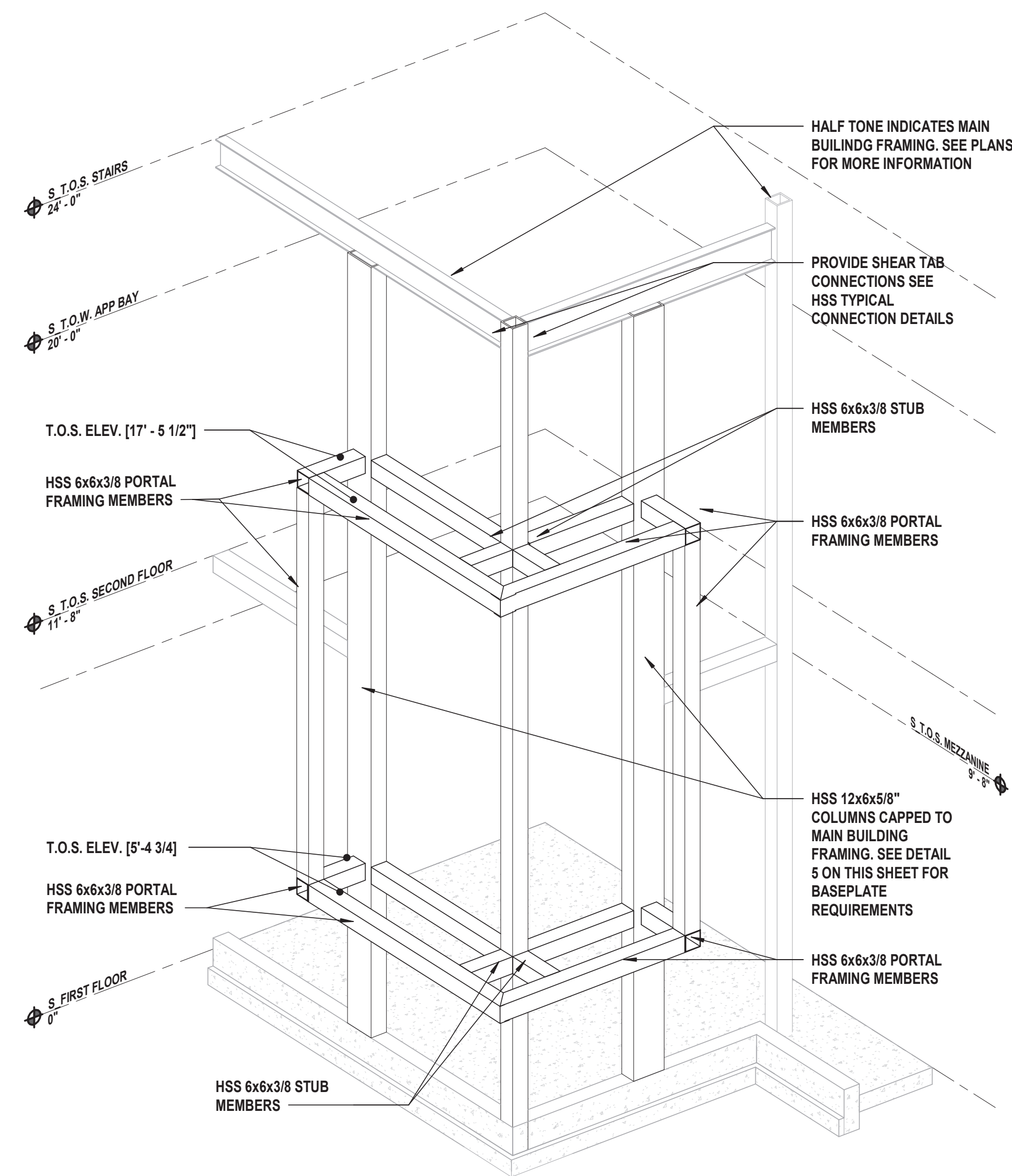
DRAWING No.
S 400.00



- NOTES:
- SEE SECTIONS FOR T.O.S. ELEVATIONS.
 - $\overleftarrow{D1}$ INDICATES SPAN OF 1.5B-36 ROOF DECK BY VULCRAFT NUCOR OR APPROVED EQUAL.
 - SEE PLAN FOR EDGE OF DECK DIMENSIONS.
 - $\overleftrightarrow{+}$ INDICATES BEAM TO COLUMN MOMENT CONNECTION WITH THE NUMBER REPRESENTING THE L.R.F.D. DESIGN MOMENT IN FT-KIPS.
 - STEEL CONNECTION PIECE DETAILS SHALL BE SUBMITTED WITH CALCULATIONS SIGNED AND SEALED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER. CONNECTION DESIGNER SHALL DESIGN ALL MOMENT CONNECTIONS AND SIMPLE SHEAR CONNECTIONS. WHERE DESIGN SHEAR REACTION IS NOT LISTED ON DRAWINGS, IT SHALL BE TAKEN AS 15 KIPS LRFD. WHERE AXIAL FORCE IN BEAMS IS NOT LISTED IN DRAWINGS, IT SHALL BE TAKEN AS 15 KIPS LRFD. ALL CONNECTIONS SHALL BE DESIGNED CONSIDERING AXIAL, SHEAR AND MOMENT FORCES SIMULTANEOUSLY AS REQUIRED BY BUILDING CODE. SEE STRUCTURAL STEEL SPECIFICATIONS FOR ADDITIONAL DESIGN LOADING REQUIREMENTS.
 - COORDINATE DIMENSIONS OF STAIR LANDING FRAMING WITH STAIR MANUFACTURER. SEE 'A' DWGS. FOR ADDITIONAL INFORMATION.

- LEGEND:
- \blacktriangle = HANGER BELOW
 - \blacktriangledown = CARRIED COLUMN/HANGER ABOVE
 - E.O.S. = EDGE OF SLAB





7' - 8 1/4" E.O.D.

8 5/8" E.O.D.

HSS6x6x1/4 STUB

HSS6x6x1/2 POST TYP.

20 K-F

35 K-F

HSS6x6x1/2 SEE 'A' DWGS FOR ELEVATION

1/8" E.O.D.

D1 T.O.D. [27' - 7 1/2"]

HSS5x4x5/16 [27'-0"]

35 K-F

BF-6 W10X19

HSS4X5/16 [27'-0"]

BF-7 W10X19

HSS4X5/16 [27'-0"]

2 1/4"

11 5/8" E.O.D.

20 K-F

14

13

J

I

H

G

F

E

3' - 6 1/2" 4' - 3 1/2"

14' - 11 7/8"

15' - 6 3/4"

18' - 2 5/8"

4 S 401

9" E.O.D.

NOTE:
T.O.S. SHALL BE SET TO [27'-6"] ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.

14

METAL ROOF DECK
SEE PLAN

WINDOW PORTAL
FRAMING SEE PLAN

S.T.O.W. SPINE
28' - 0"

WELD DESIGN
BY
FABRICATORS
ENGINEER

WINDOW MOUNTING
TO HSS BY WINDOW
MANUF. ENGINEER

STEEL BEAM
SEE PLAN

HSS PORTAL
FRAME POST
BEYOND SEE PLAN

STEEL COLUMN
BEYOND SEE PLAN

WINDOW SYSTEM SEE 'A' DWGS.
ATTACHMENT BY WINDOW
DELEGATED DESIGNER

STL. PLATE SEE TYPICAL DECK
EDGE DETAILS FOR PLATE SIZE
AND 'A' DWGS FOR DIMENSIONS
TO EDGE OF SLAB

CFS DEFLECTION CLIP BY
CFS DELEGATED
DESIGNER

SEE 2/S 530 FOR STUB
CONNECTION

WELD DESIGN
BY
FABRICATORS
ENGINEER

S.T.O.S. SECOND FLOOR
11' - 8"

SLAB ON METAL
DECK SEE PLAN



WINDOW PORTAL
FRAMING SEE PLAN


STEEL BEAM SEE PLAN

Technical drawing of a rectangular plate with a central hole. The drawing includes the following dimensions and specifications:

- Overall width: 1" - 7"
- Overall height: 1 1/2" MIN.
- Central hole diameter: (2) 1/2" Ø x 1'-0" EMBEDDED
- Material: ASTM A307 HEX HEAD BOLTS
- Plate thickness: 1/2" THK BASE PLATE
- Corner radius: 5/16"

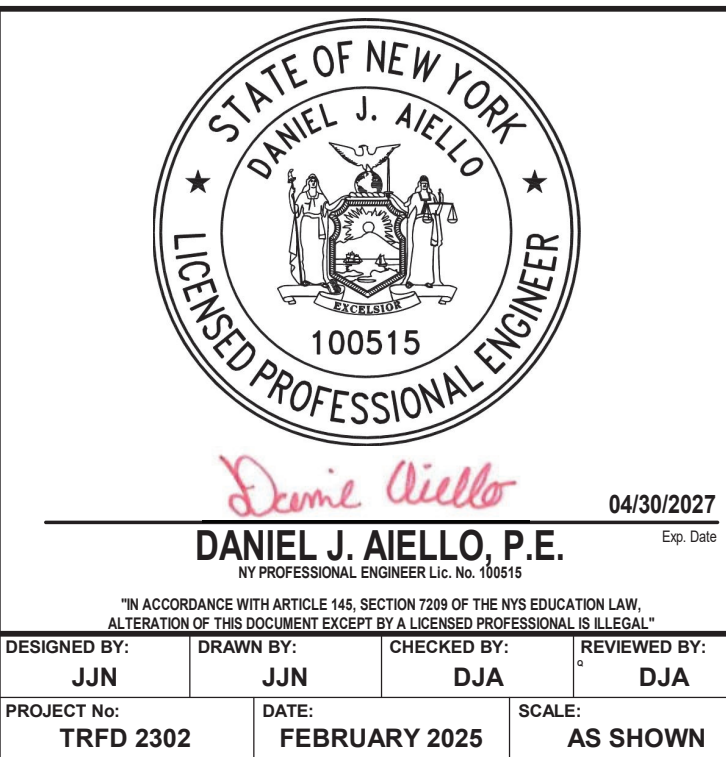
NOTES:

1. SEE VIEWS ON THIS SHEET FOR T.O.S. ELEVATIONS.
2.  INDICATES SPAN OF 1.5B-36 ROOF DECK BY VULCRAFT NUCOR OR APPROVED EQUAL
3. SEE PLAN FOR EDGE OF DECK DIMENSIONS.
4.  INDICATES BEAM TO COLUMN MOMENT CONNECTION WITH THE NUMBER REPRESENTING THE L.R.F.D. DESIGN MOMENT IN FT-KIPS.
5. STEEL CONNECTION SPECIES DETAILS SHALL BE SUBMITTED WITH CONNECTION SIZED AND SEALS IN A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER, CONNECTION DESIGNER SHALL DESIGN ALL MOMENT CONNECTIONS AND SIMPLE SHEAR CONNECTIONS. WHERE DESIGN SHEAR REACTION IS NOT LISTED ON DRAWINGS, IT SHALL BE TAKEN AS 15 KIPS LRFD. WHERE AXIAL FORCE IN BEAMS IS NOT LISTED IN DRAWINGS, IT SHALL BE TAKEN AS 15 KIPS LRFD. ALL CONNECTIONS SHALL BE DESIGNED CONSIDERING AXIAL, SHEAR AND MOMENT FORCES SIMULTANEOUSLY AS REQUIRED BY BUILDING CODE. SEE STRUCTURAL STEEL SPECIFICATIONS FOR ADDITIONAL DESIGN LOADING REQUIREMENTS.
6. COORDINATE DIMENSIONS OF STAIR LANDING FRAMING WITH STAIR MANUFACTURER. SEE 'A' DWGS. FOR ADDITIONAL INFORMATION.



architects
+
engineers


CONSULTANTS:

[illegible]

CLIENT

**THIELLS
ROSEVILLE FIRE
DISTRICT**

**NEW 26-100 FIRE
HEADQUARTERS**



**65 W RAMAPO ROAD
GARNERVILLE, NY 10923**

CONTRACT

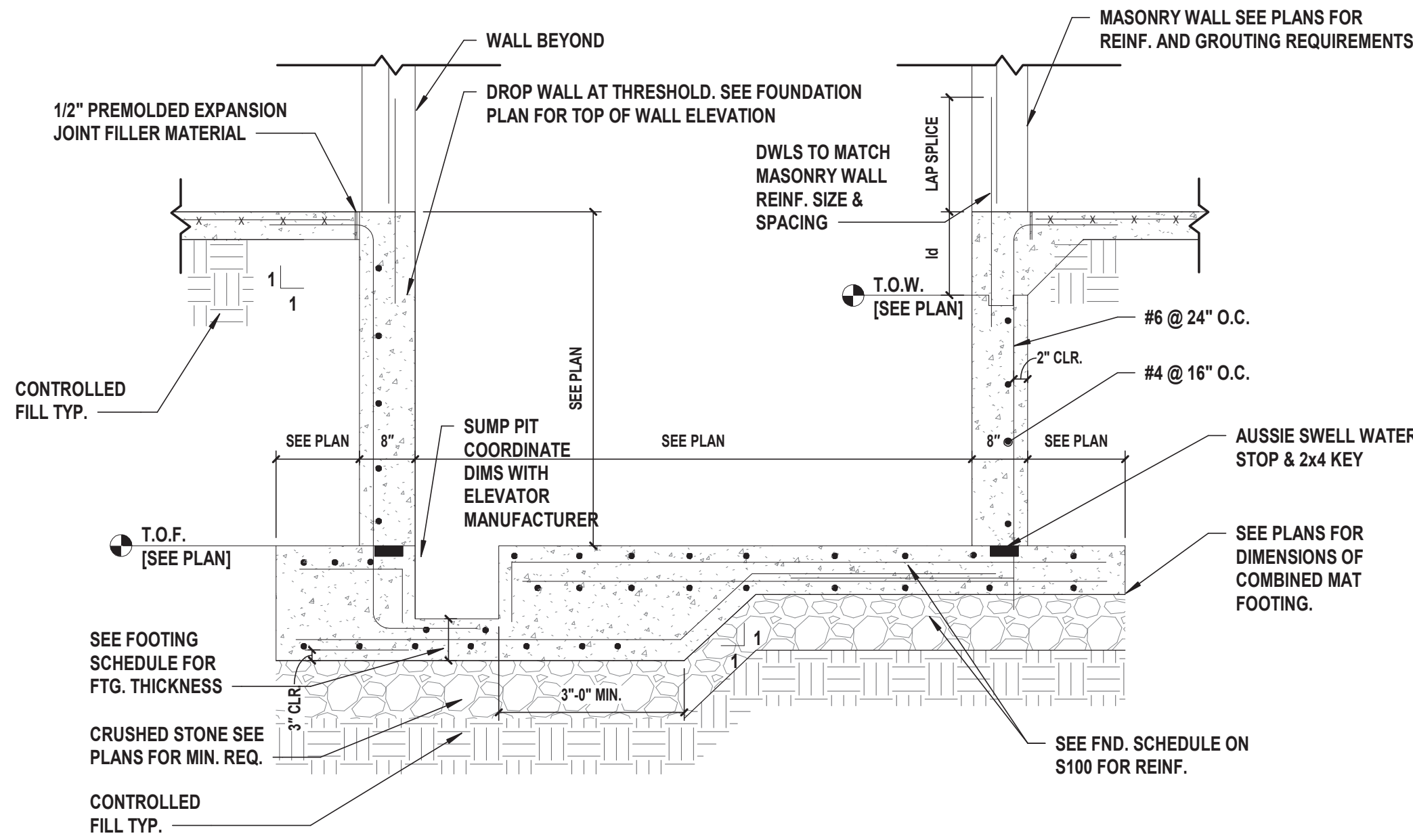
CONTRACT G

STATUS	FINAL BID DOCUMENT
--------	--------------------

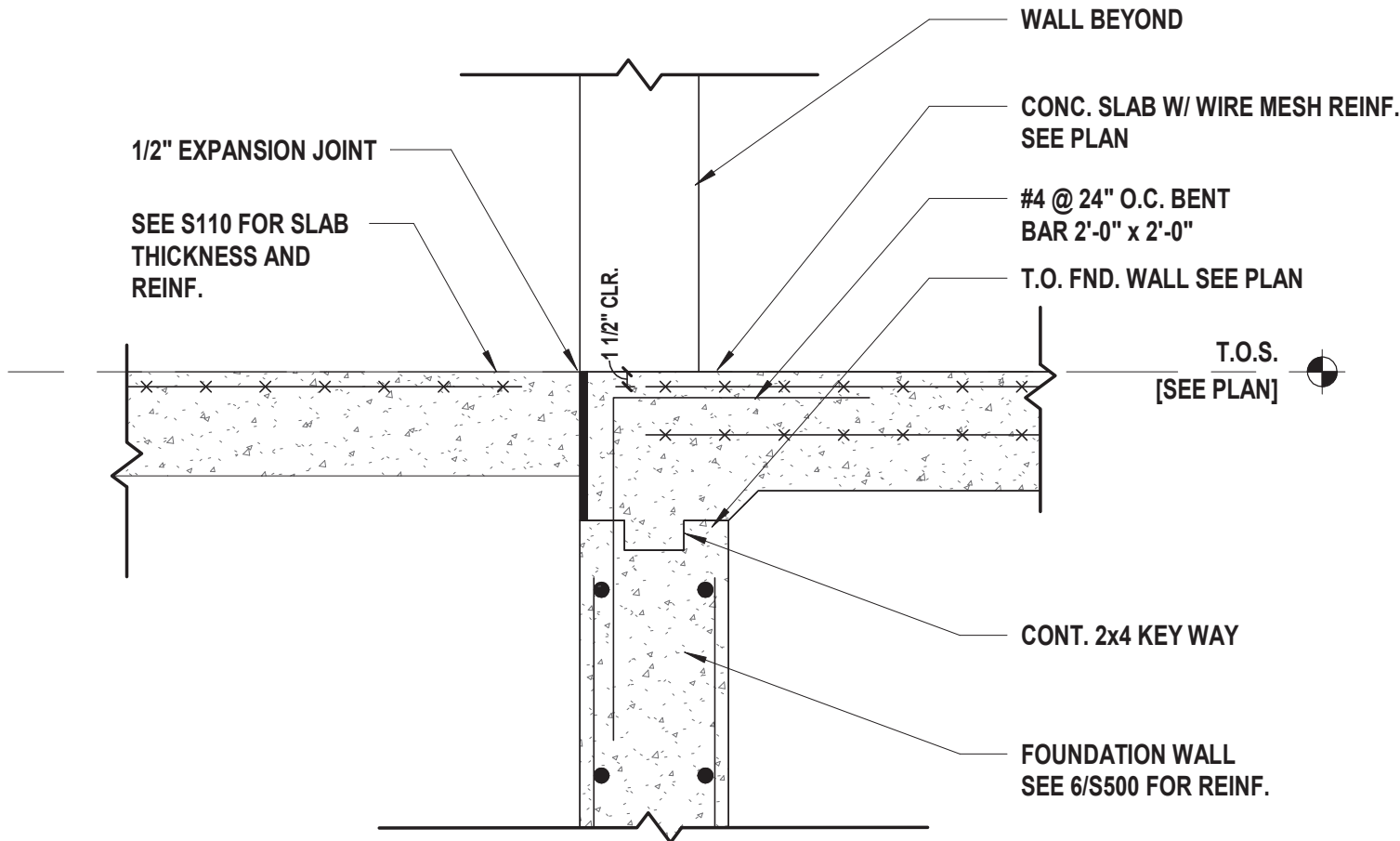
SHEET TITLE

**STAIR A PORTAL FRAME PLAN
AND ISOMETRIC**

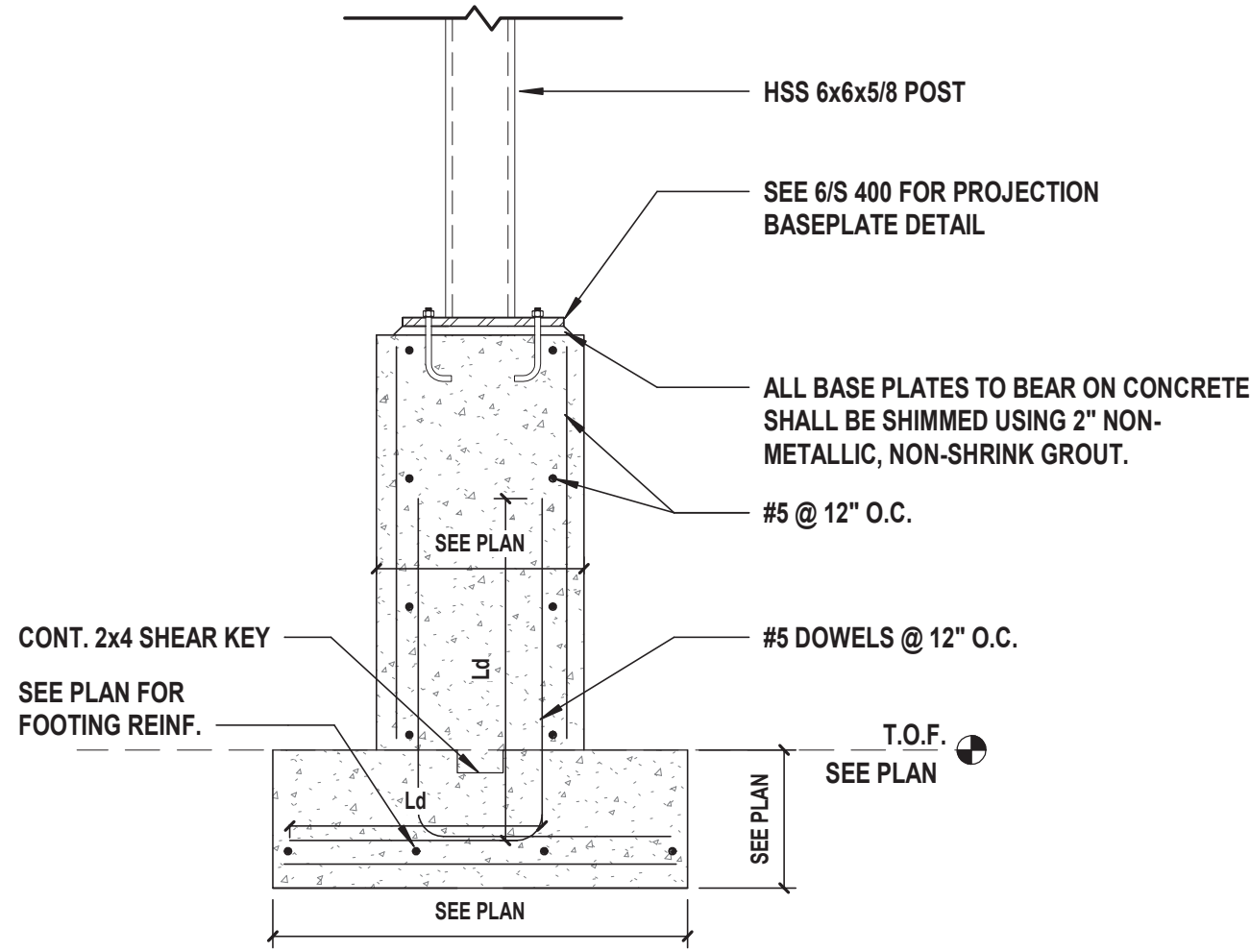
DRAWING No. **S 401.00**



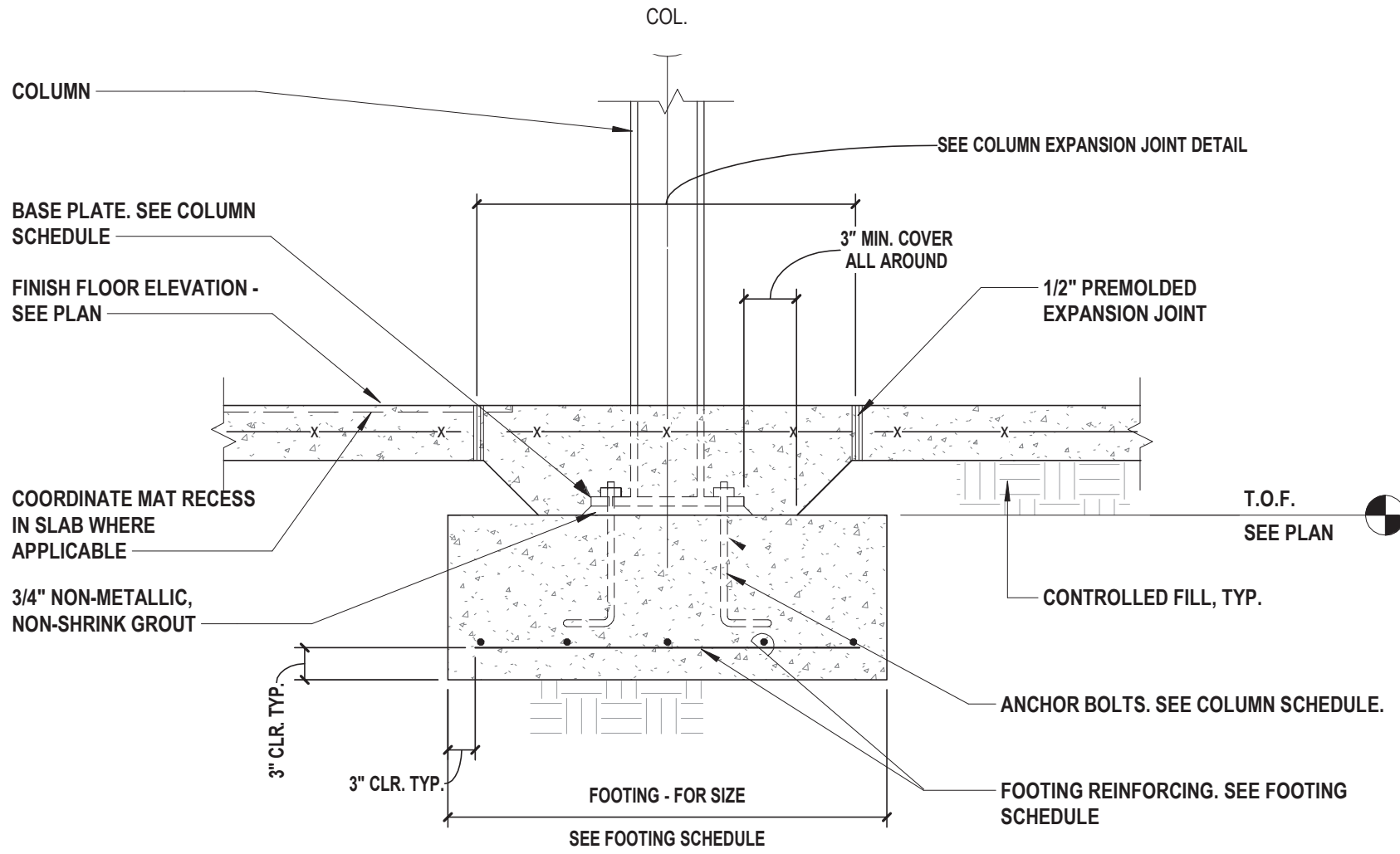
1 Elevator Pit with Sump Pit
SCALE: NTS



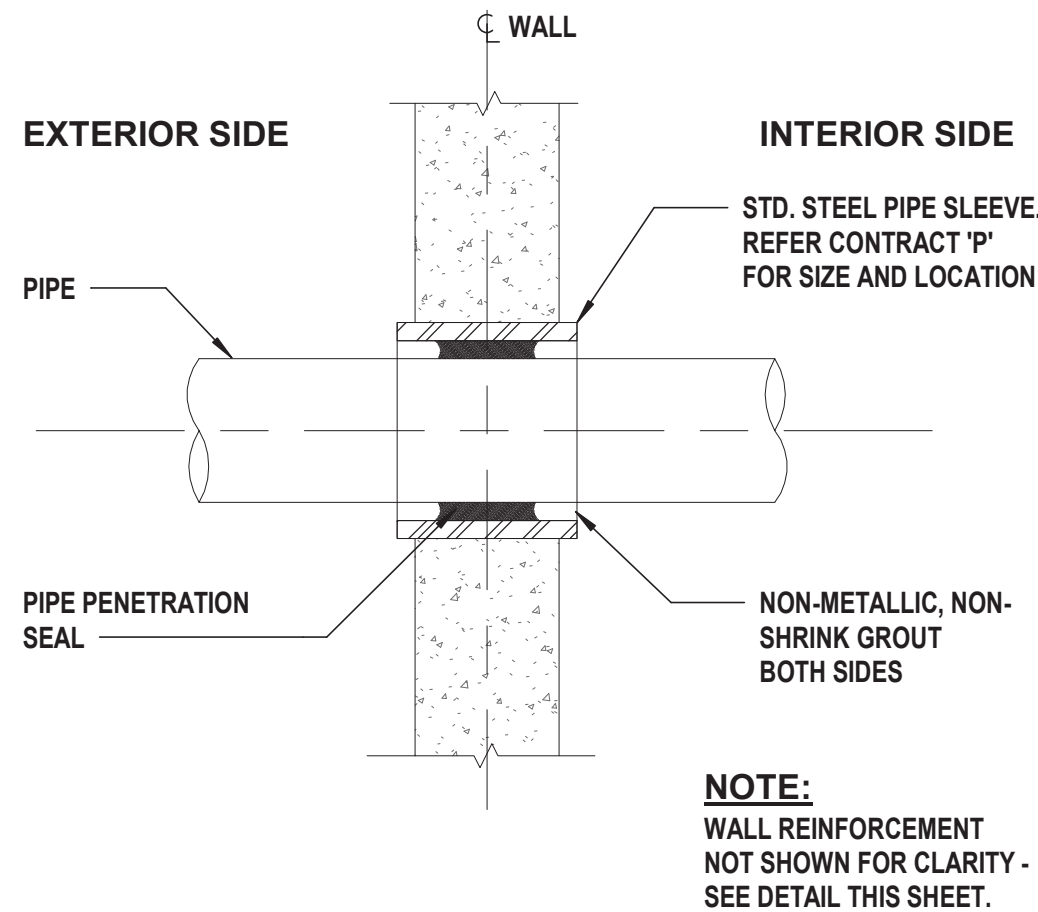
2 Interior Foundation at Door Opening
SCALE: NTS



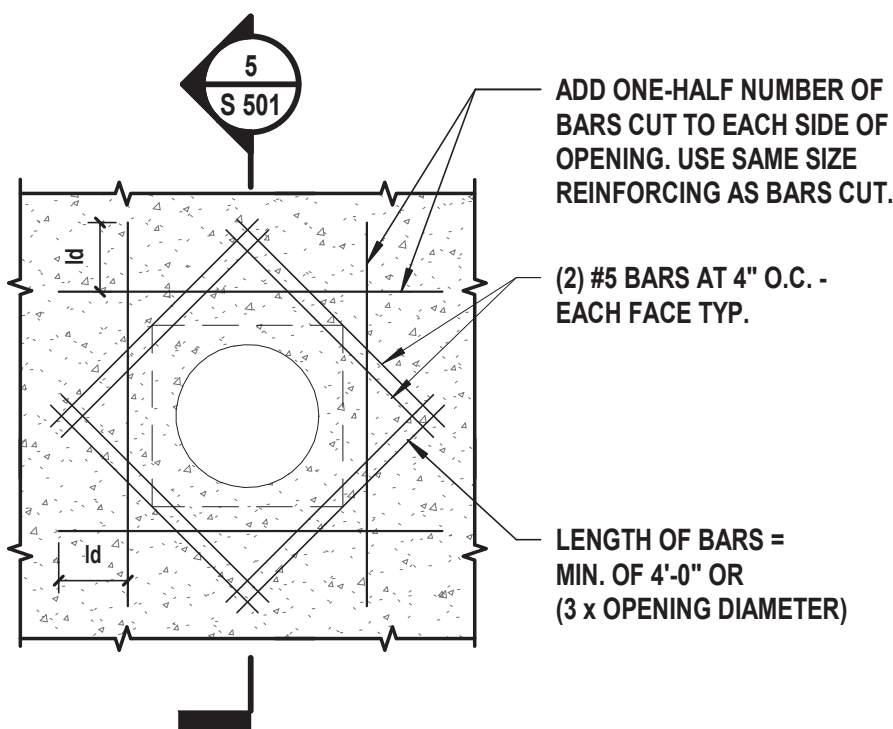
3 Foundation Wall Detail at Wall Projections
SCALE: 3/4" = 1'-0"



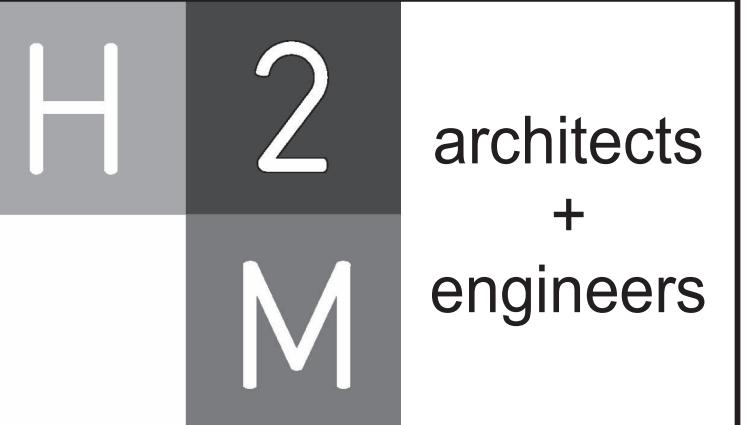
4 Interior Footing Detail
SCALE: NTS



5 Pipe Penetration at Wall or Slab
SCALE: NTS



6 Pipe Penetration at Wall or Slab (Elevation)
SCALE: NTS



538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
631.755.8000 • www.h2m.com
NY Architecture & Landscape Architecture: No Certificate Required
NY Engineering Certificate of Authorization No.: 0018178

CONSULTANTS:		

MARK	DATE	DESCRIPTION

DANIEL J. AIELLO, P.E.
NY PROFESSIONAL ENGINEER L.C. No. 100515
Exp. Date: 04/30/2027

IN ACCORDANCE WITH ARTICLE 145, SECTION 2209 OF THE NYS EDUCATION LAW, ALTERNATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL, IS ILLEGAL.

DESIGNED BY: JJN	DRAWN BY: SRK	CHECKED BY: JJN	REVIEWED BY: DJA
PROJECT No: TRFD 2302	DATE: FEBRUARY 2025	SCALE: AS SHOWN	

CLIENT

**THIELLS
ROSEVILLE FIRE
DISTRICT**

**NEW 26-100 FIRE
HEADQUARTERS**

**65 W RAMAPO ROAD
GARNERVILLE, NY 10923**

CONTRACT

CONTRACT G

STATUS

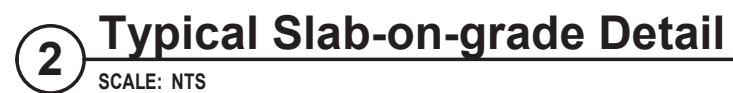
FINAL BID DOCUMENT

SHEET TITLE

FOUNDATION DETAILS

DRAWING No.

S 501.00




SUGGESTED SEQUENCE OF CASTING STRIPS



538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
631.756.8000 • www.h2m.com
NY Architecture & Landscape Architecture: No Certificate Required
NY Engineering Certificate of Authorization No.: 0018178

CONSULTANTS:

[illegible]

 DANIEL J. AIELLO, P.E. NY PROFESSIONAL ENGINEER L.C. NO. 005916		04/30/2027 Exp. Date
"IN ACCORDANCE WITH ARTICLE 145, SECTION 7209 OF THE NYS EDUCATION LAW, ALTERATION OF THIS DOCUMENT (EXCEPT BY A LICENSED PROFESSIONAL, IS ILLEGAL)"		
DESIGNED BY: JJN	DRAWN BY: JJN	CHECKED BY: DJA
PROJECT NO: TRFD 2302		DATE: FEBRUARY 2025
SCALE: AS SHOWN		

CLIENT

**THIELS
ROSEVILLE FIRE
DISTRICT**

NEW 26-100 FIRE HEADQUARTERS



65 W RAMAPO ROAD
GARNERVILLE, NY 10923

CONTRACT

CONTRACT G

STATUS

FINAL BID DOCUMENT

SHEET TITLE

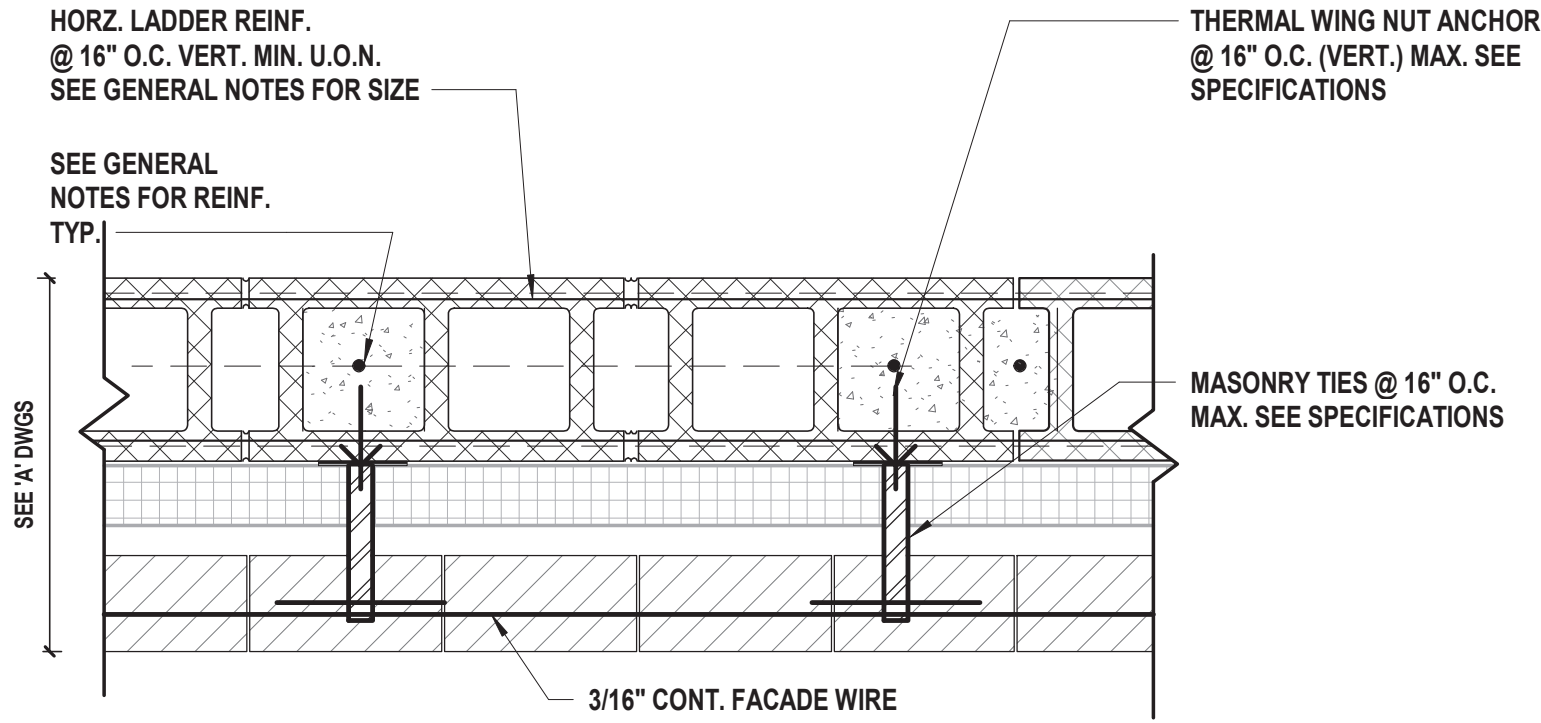
SLAB DETAILS

DRAWING No.

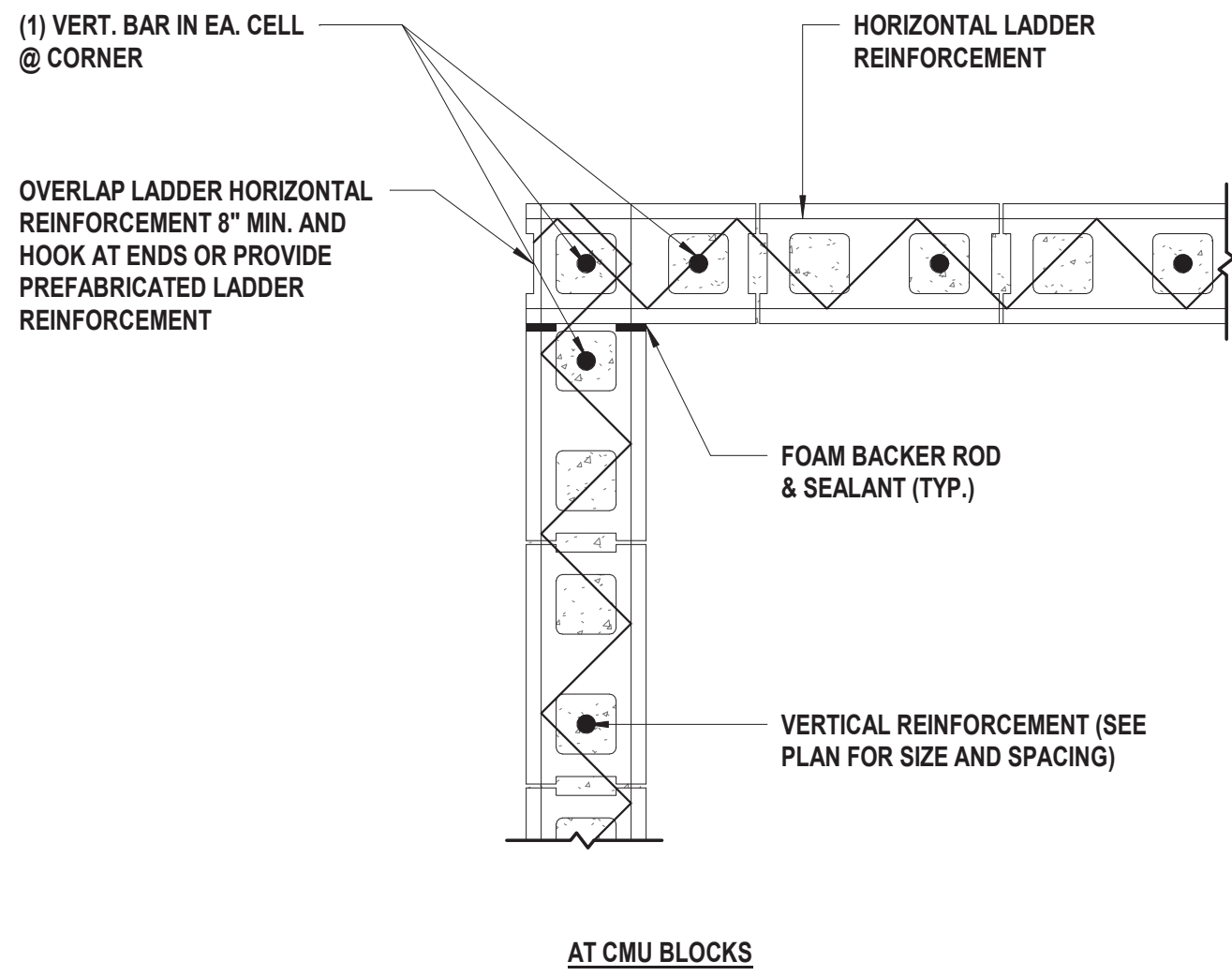
S 510.00

C:\Users\jrebauser\Documents\TRFD2302_Central03_S_jrebauser\LCL05.rvt

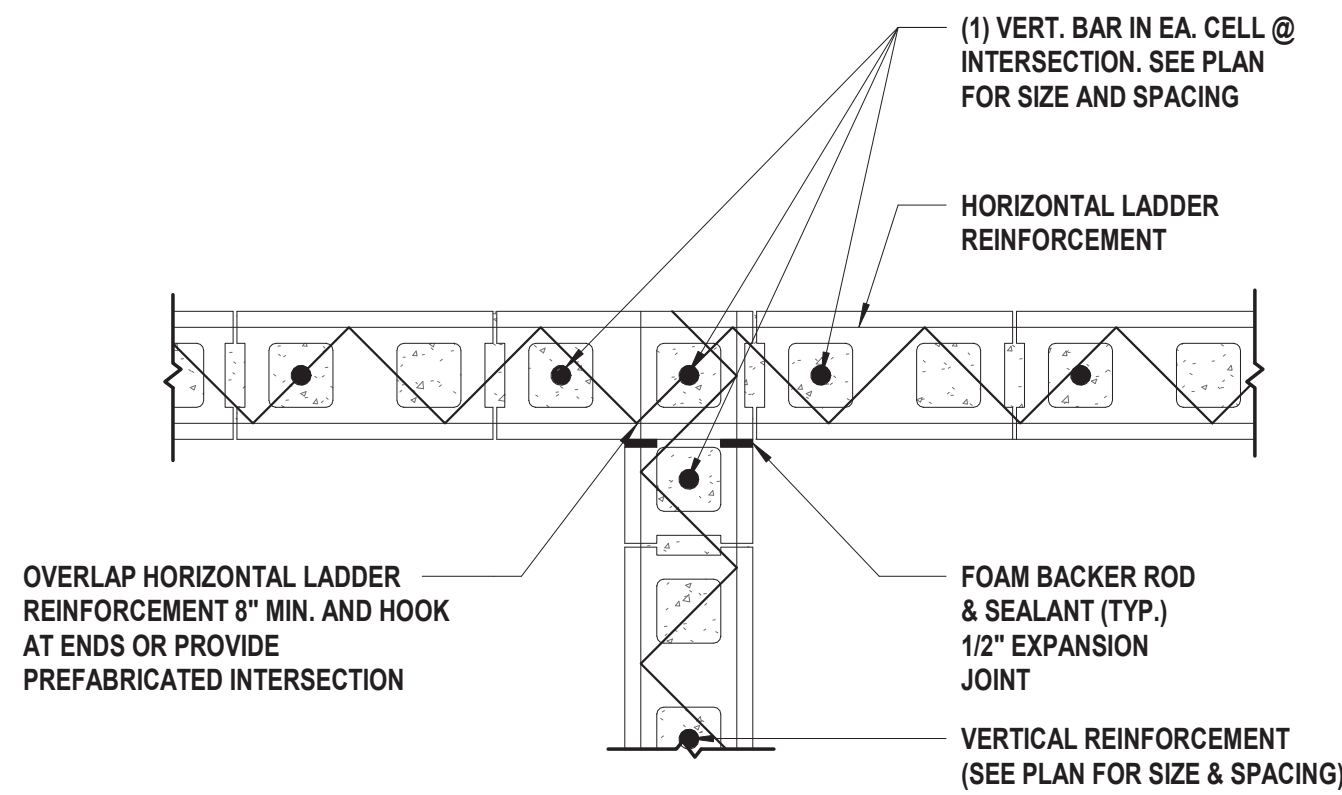
2/25/2025 12:05:04 PM



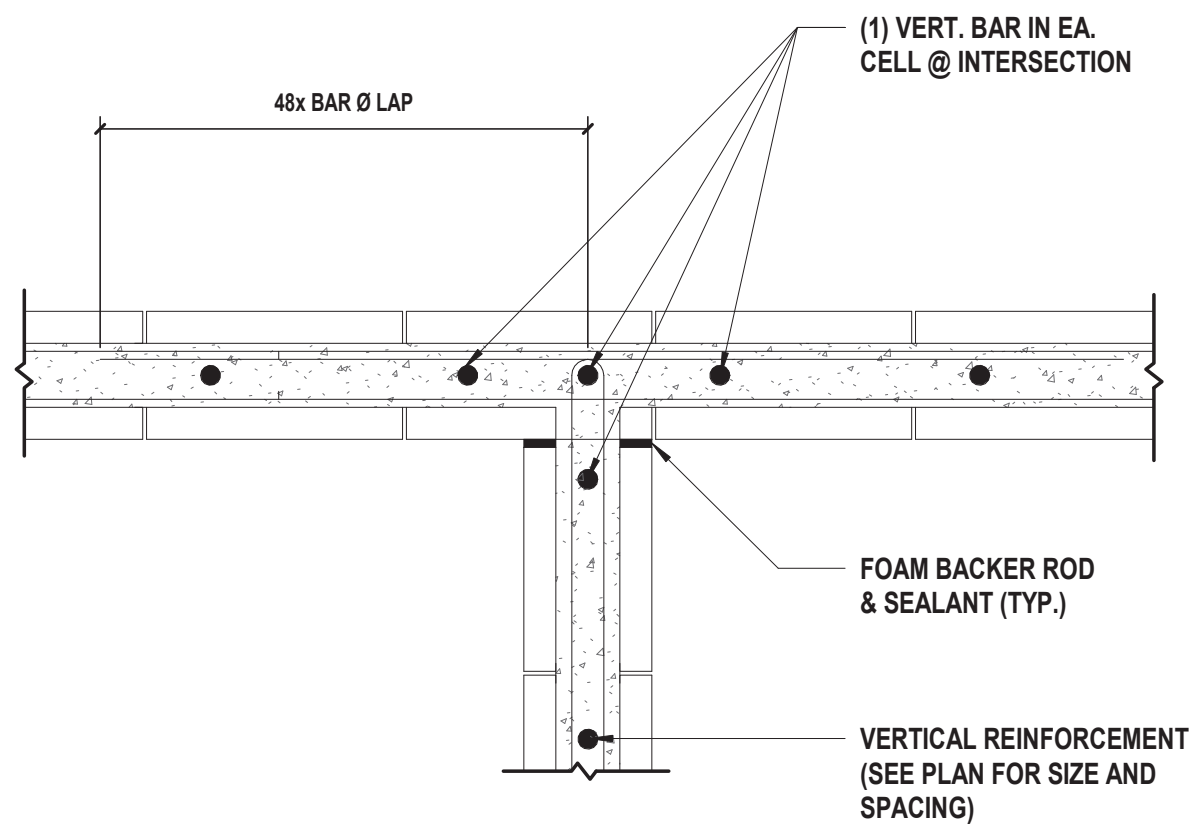
1 Typical CMU Wall Reinforcing Detail
SCALE: NTS



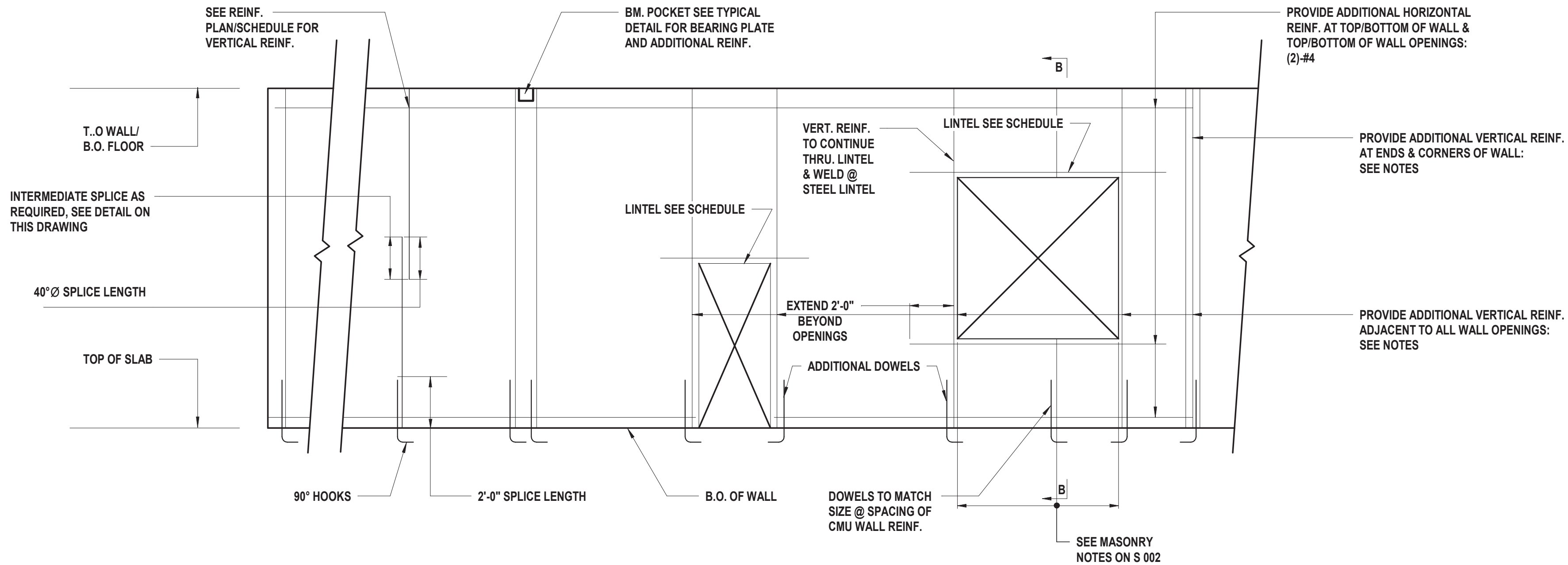
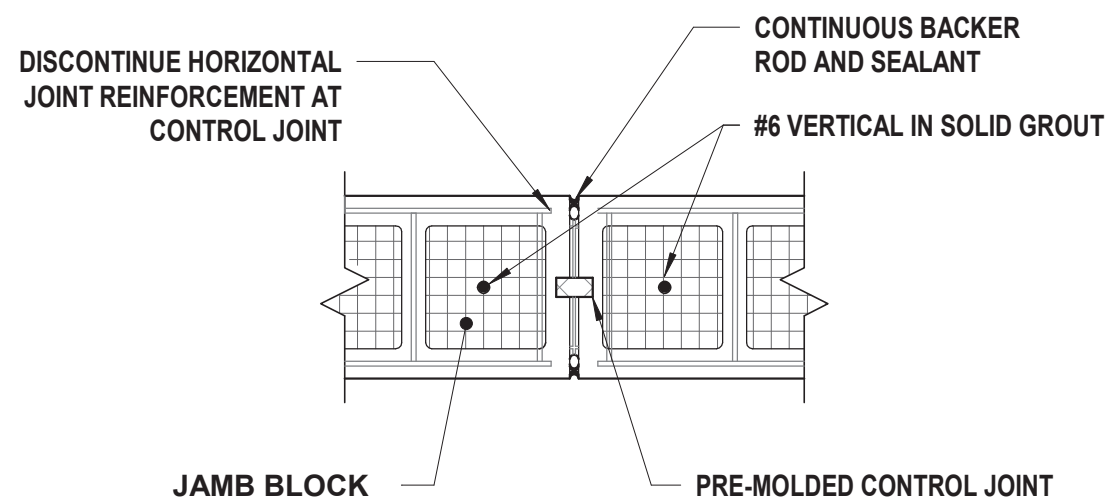
2 Typical CMU Corner Reinforcement Detail
SCALE: NTS



3 Typical CMU Intersection Reinforcement Detail
SCALE: NTS



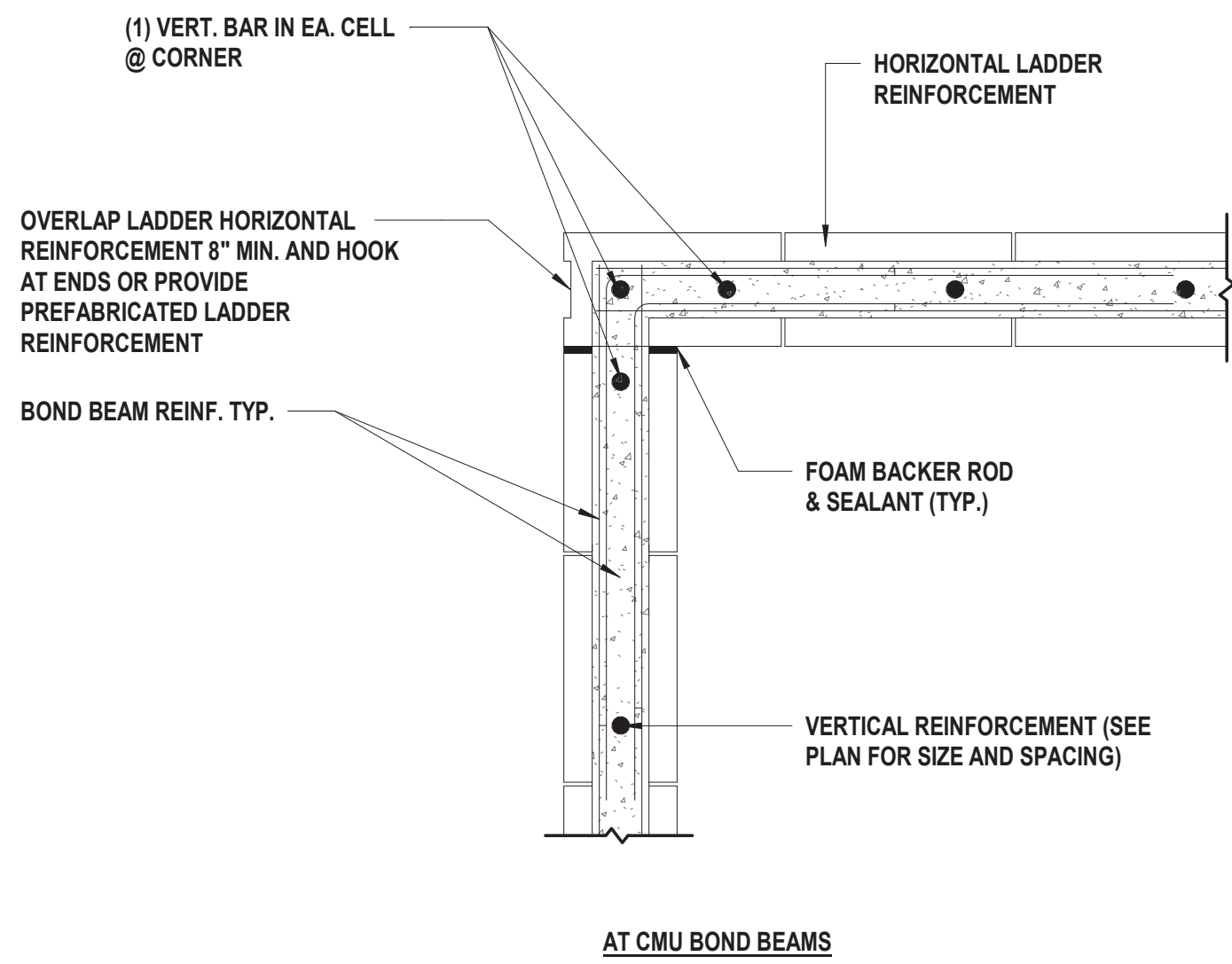
4 Typical CMU Wall Control Joint
SCALE: NTS



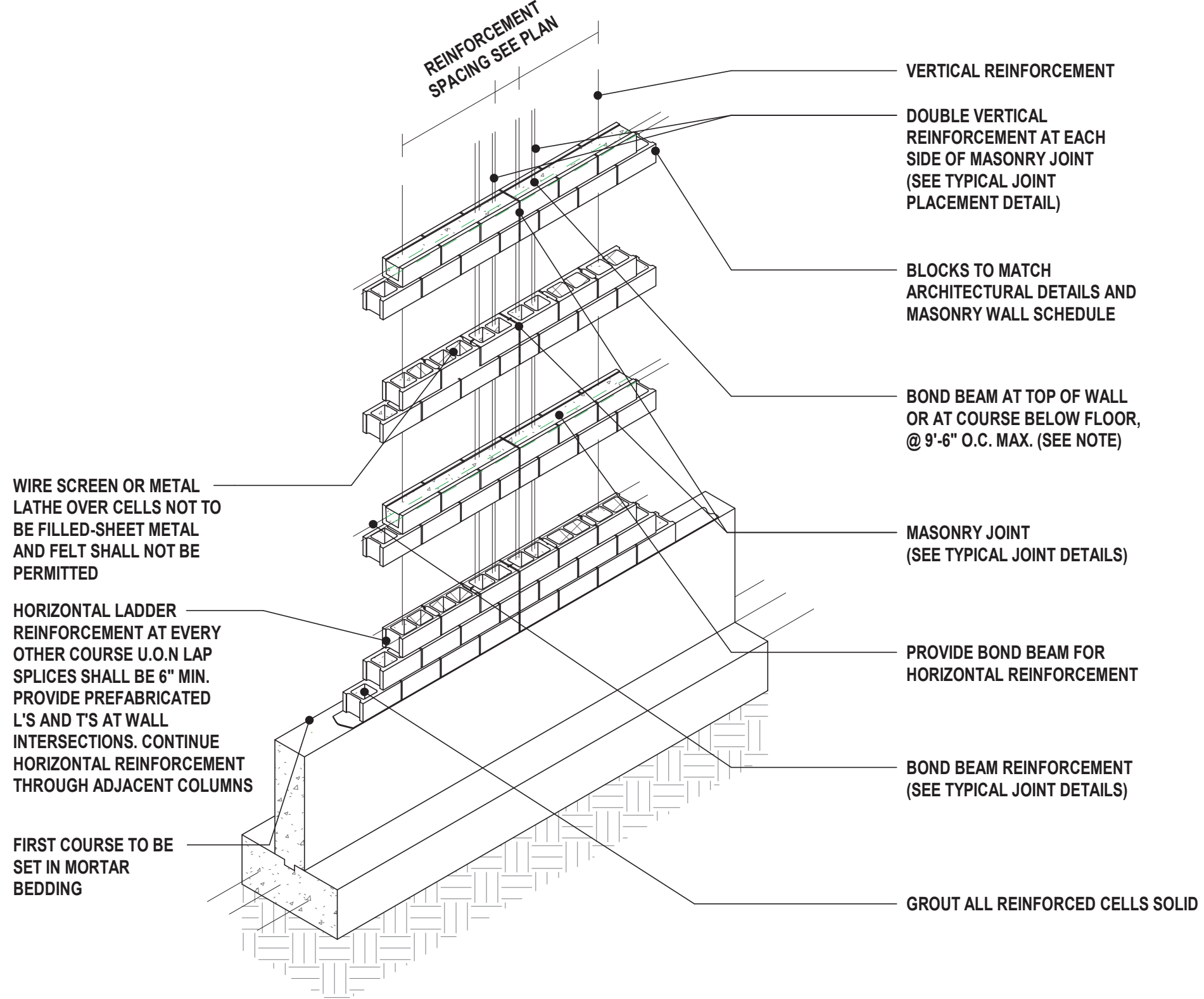
WALL REINFORCEMENT ELEVATION NOTES:

1. ABOVE DETAIL APPLIES TO ALL MASONRY (C.M.U.) WALLS
2. DETAIL DOES NOT SHOW GENERAL REINFORCEMENT SEE PLANS & SCHEDULES FOR REINFORCEMENT SIZE AND SPACING.
3. DETAIL DOES NOT SHOW BOND BEAM, LADDER REINFORCEMENT, ETC. FOR CLARITY.
4. FOR MULTI-WYTHE EXTERIOR WALLS ABOVE DETAIL APPLIES TO C.M.U. BACKUP WALL ONLY. SEE ARCH DWGS FOR ADDITIONAL INFORMATION.
5. FOR C.M.U. MASONRY NOTES SEE S 002.

5 Typical CMU Wall Elevation Detail
SCALE: NTS



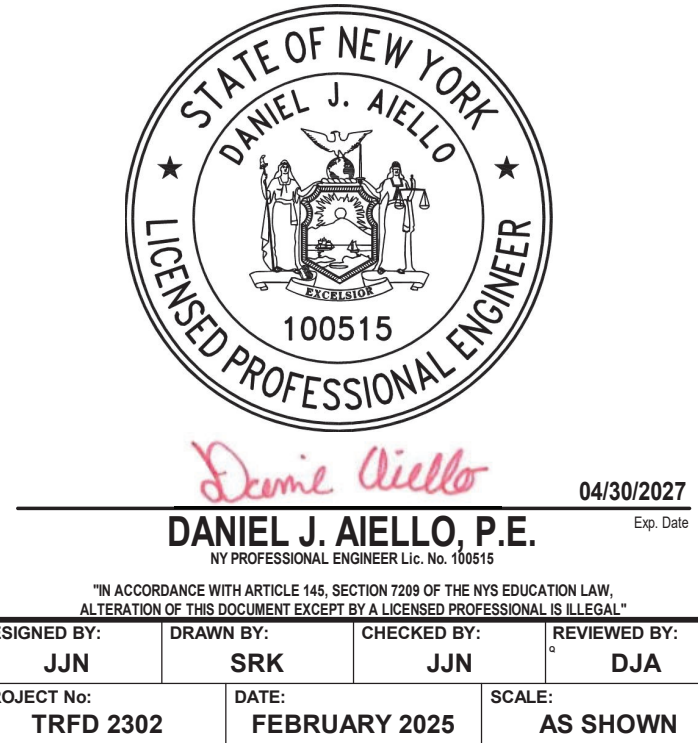
6 Typical CMU Wall Bond Beam Elevation Detail
SCALE: NTS



NOTE: IF FLOOR HEIGHT EXCEEDS 9'-6", PROVIDE A BOND BEAM AT THE MID HEIGHT OF THE WALL

CONSULTANTS:

MARK	DATE	DESCRIPTION



CLIENT

**THIELLS
ROSEVILLE FIRE
DISTRICT**

**NEW 26-100 FIRE
HEADQUARTERS**

**65 W RAMAPO ROAD
GARNERVILLE, NY 10923**

CONTRACT

CONTRACT G

STATUS

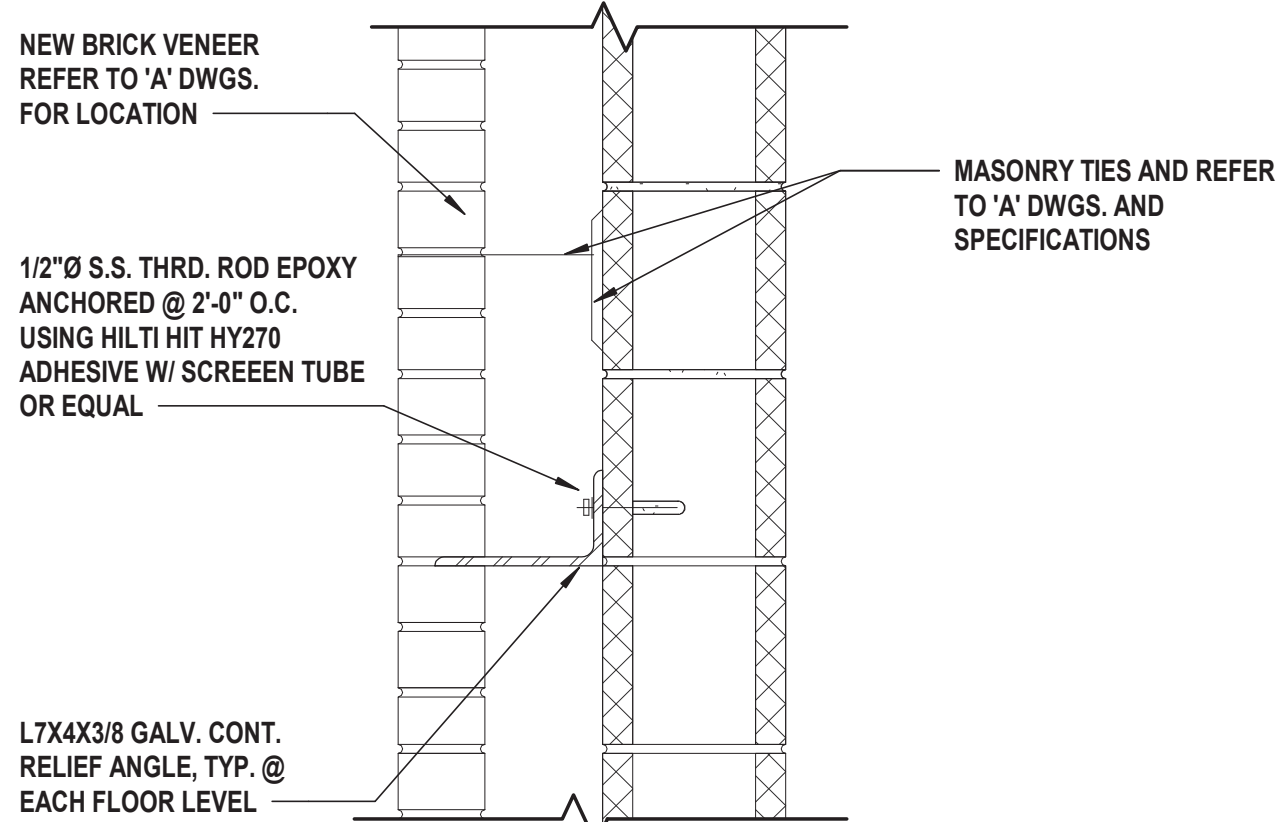
FINAL BID DOCUMENT

SHEET TITLE

MASONRY DETAILS

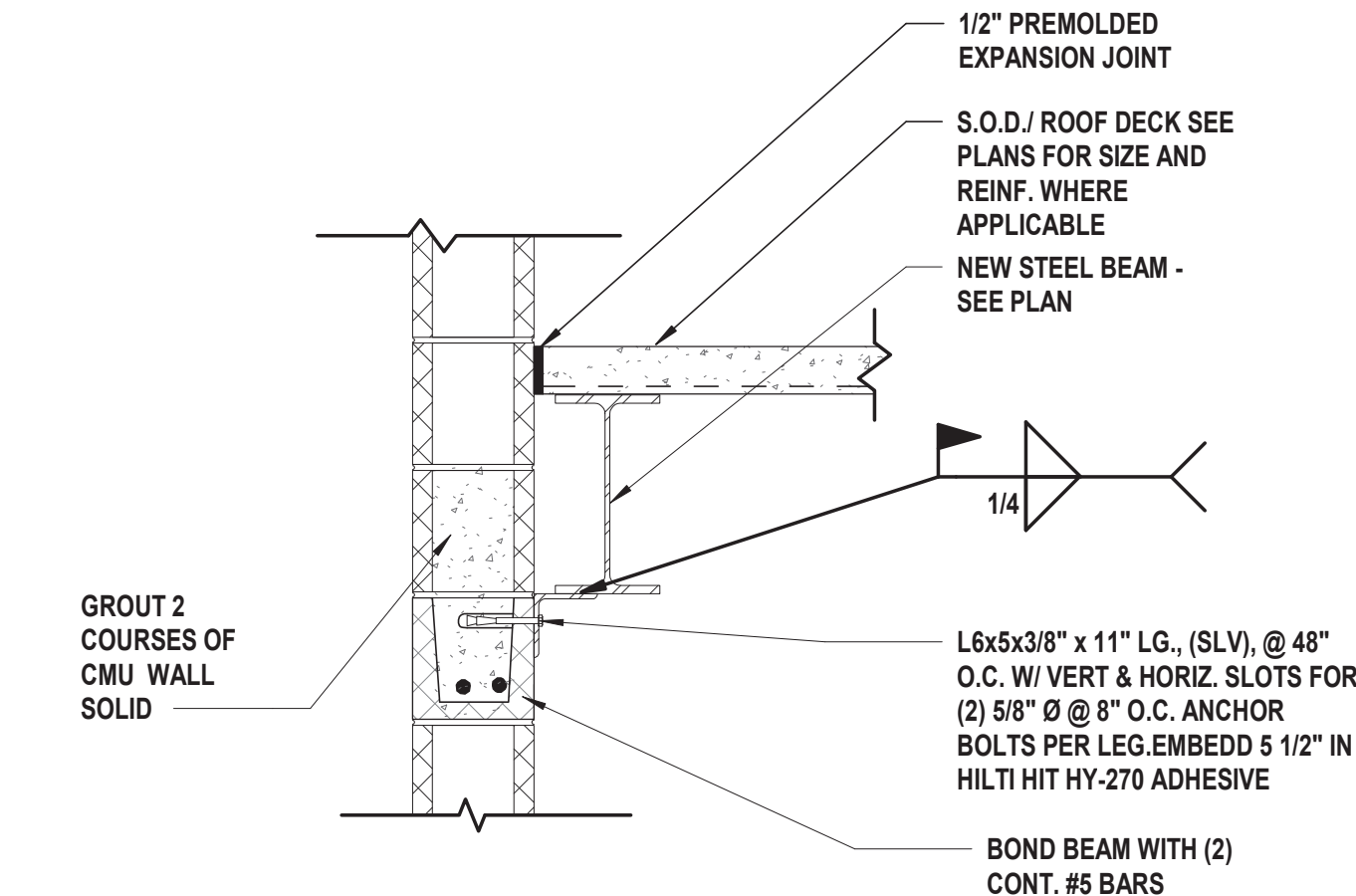
DRAWING No.

S 520.00

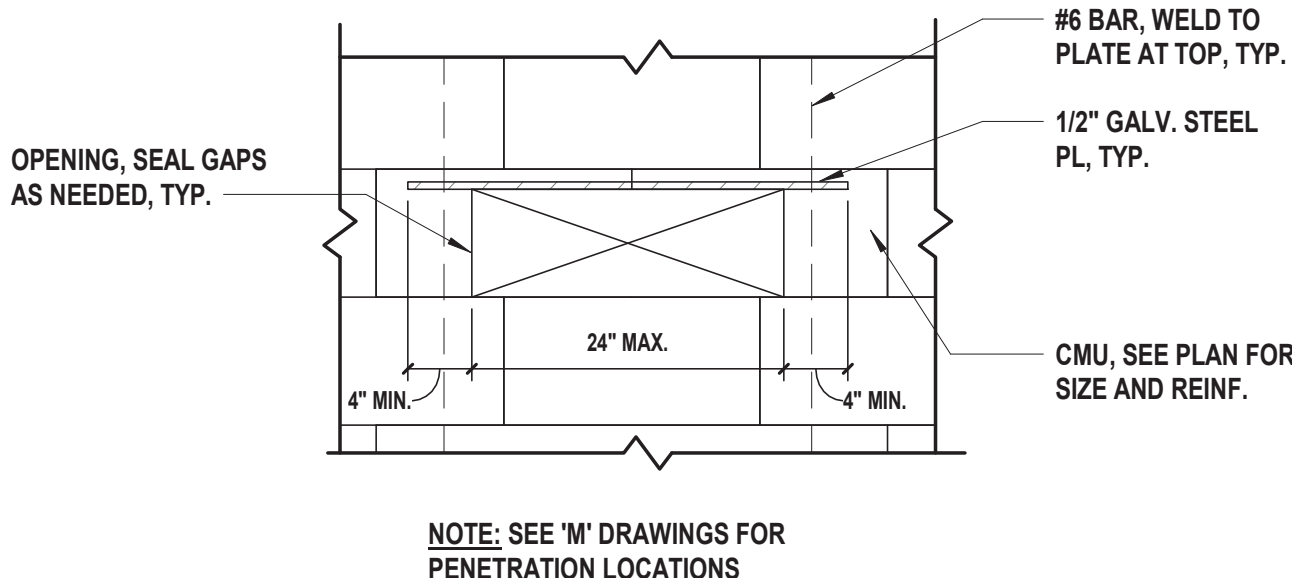


NOTE:
REFER TO 'A' DWGS. FOR INSULATION
REQUIREMENTS AS WELL AS ADDITIONAL
INFO FOR MASONRY NOT DEPICTED HERE.

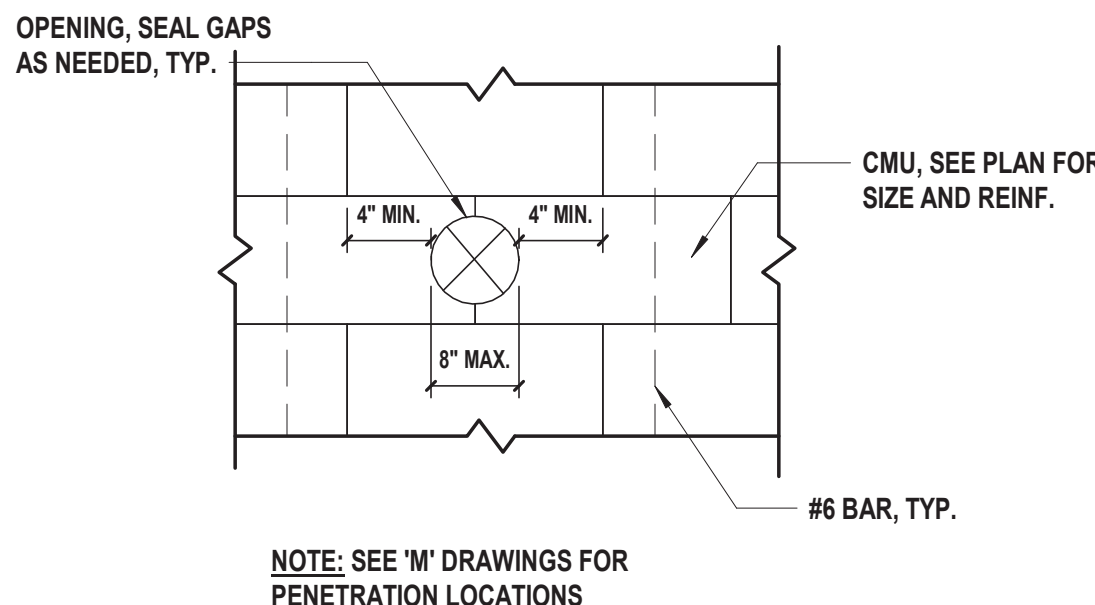
1 Veneer Relief Angle At CMU Wall
SCALE: NTS



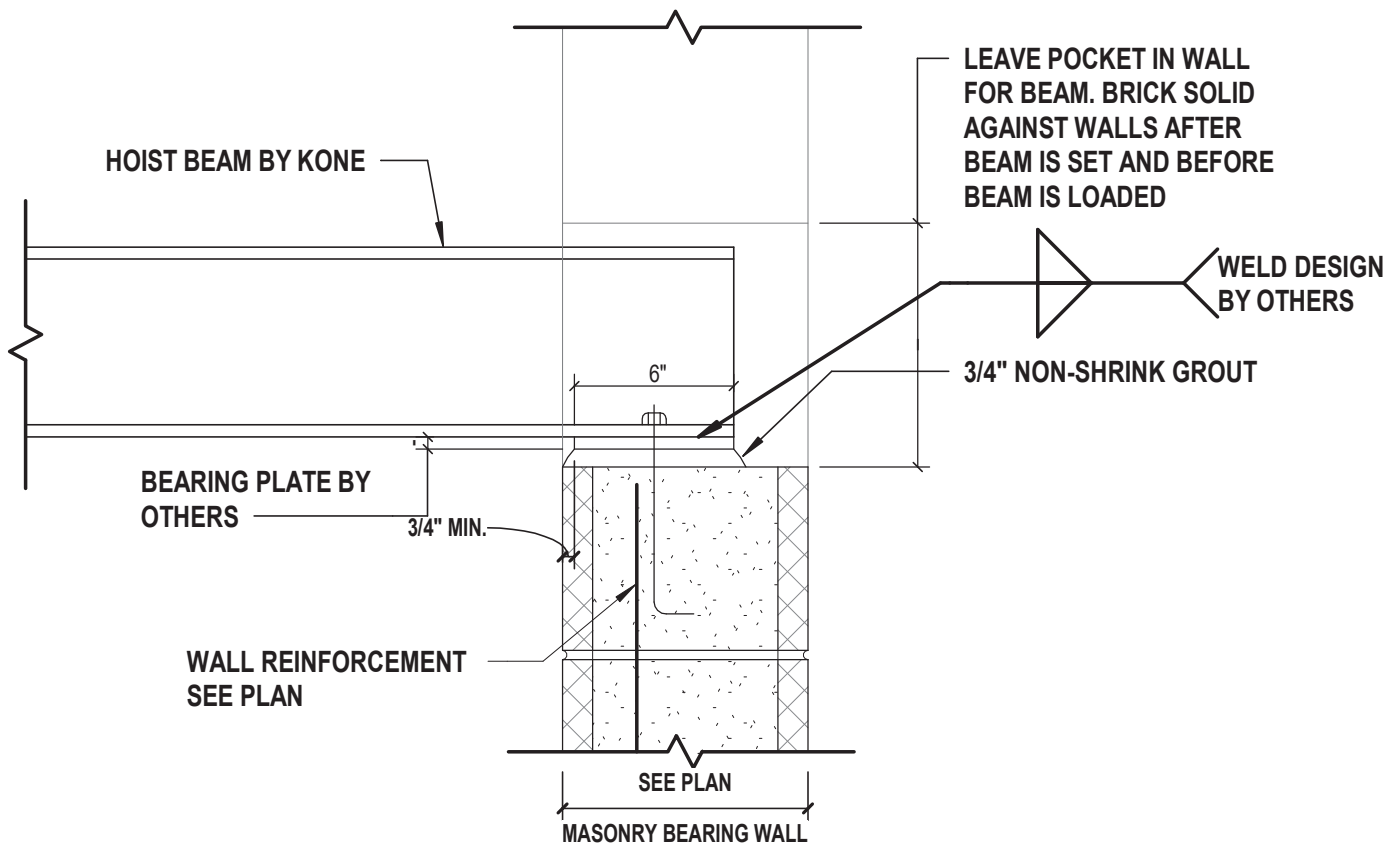
2 CMU Wall Bracing Detail
SCALE: 1" = 1'-0"



3 CMU Opening 8" - 24"
SCALE: NTS

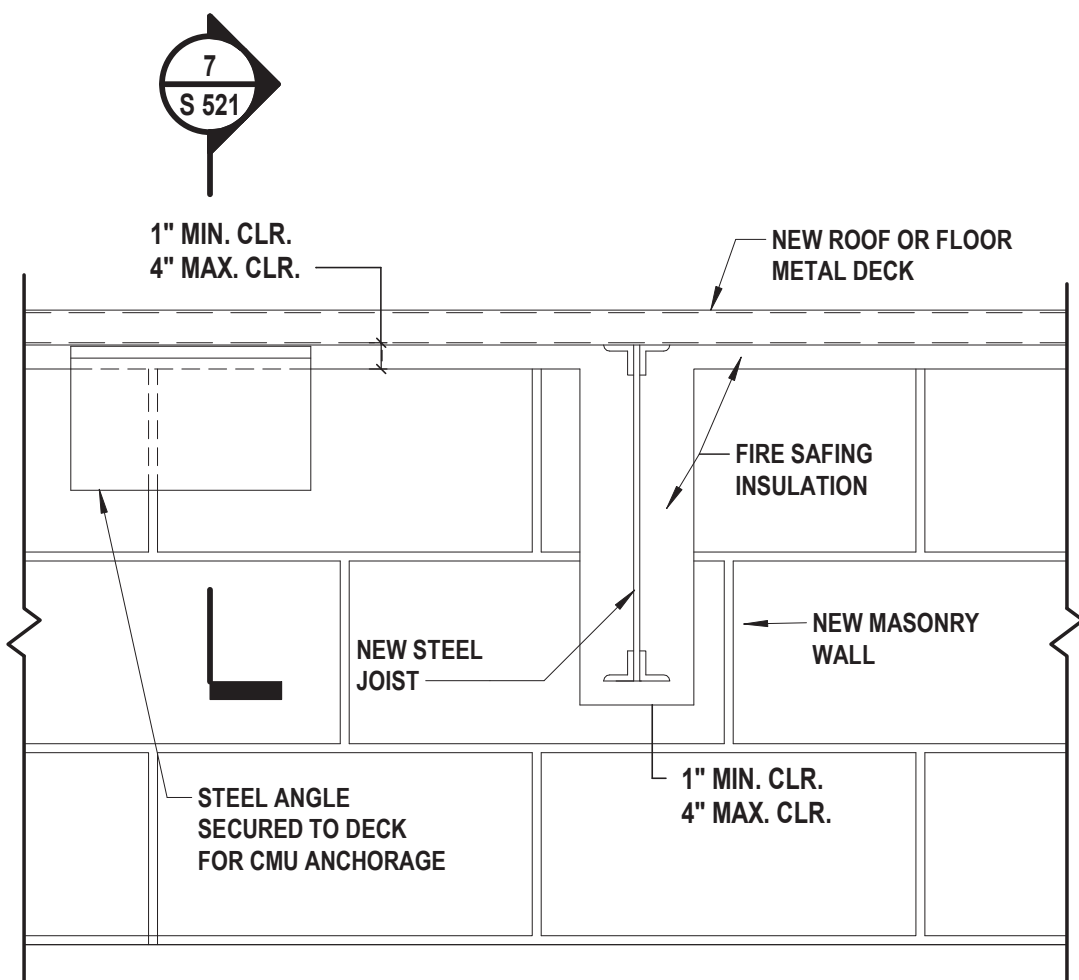


4 CMU Opening 8" and Less
SCALE: NTS



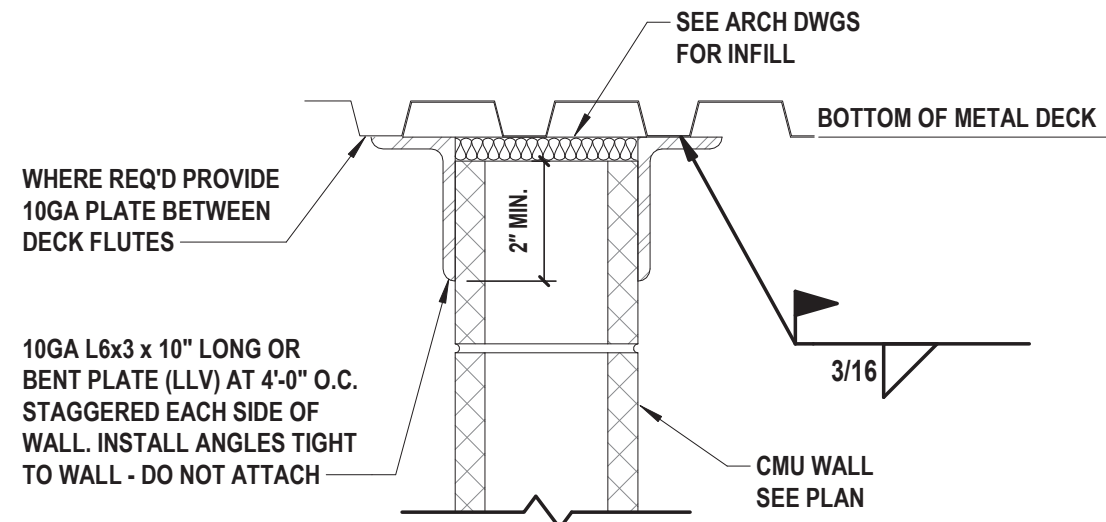
NOTE:
FILL HOLLOW IN WALL UNDER BEARING PLATE SOLID WITH MORTAR BEFORE PLACING BEARING PLATE.

5 Elevator Hoist Beam Bearing on CMU Wall
SCALE: 1" = 1'-0"



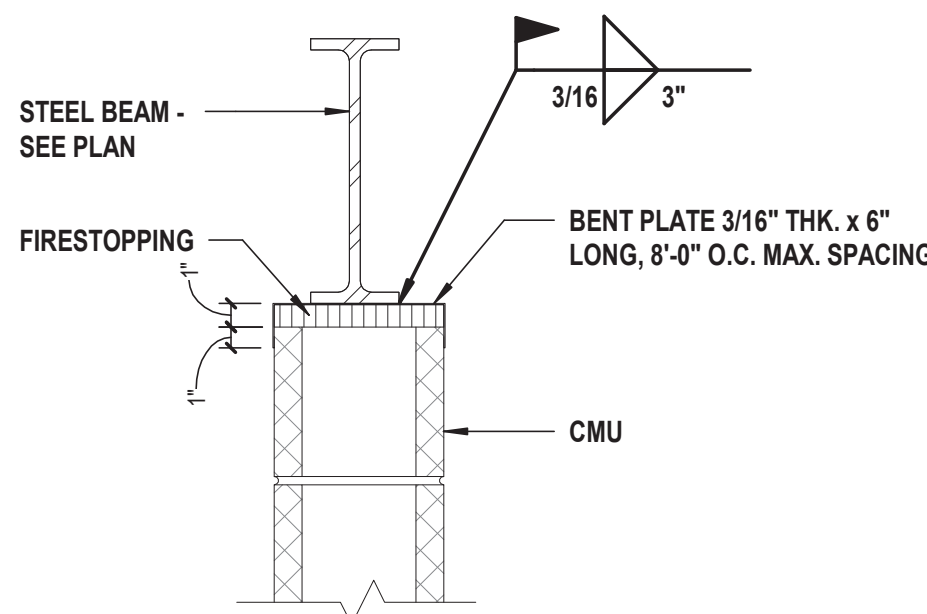
NOTE: DETAIL APPLIES FOR W-SHAPE STEEL BEAMS AS WELL

6 Joist Thru Non-bearing CMU Wall
SCALE: NTS

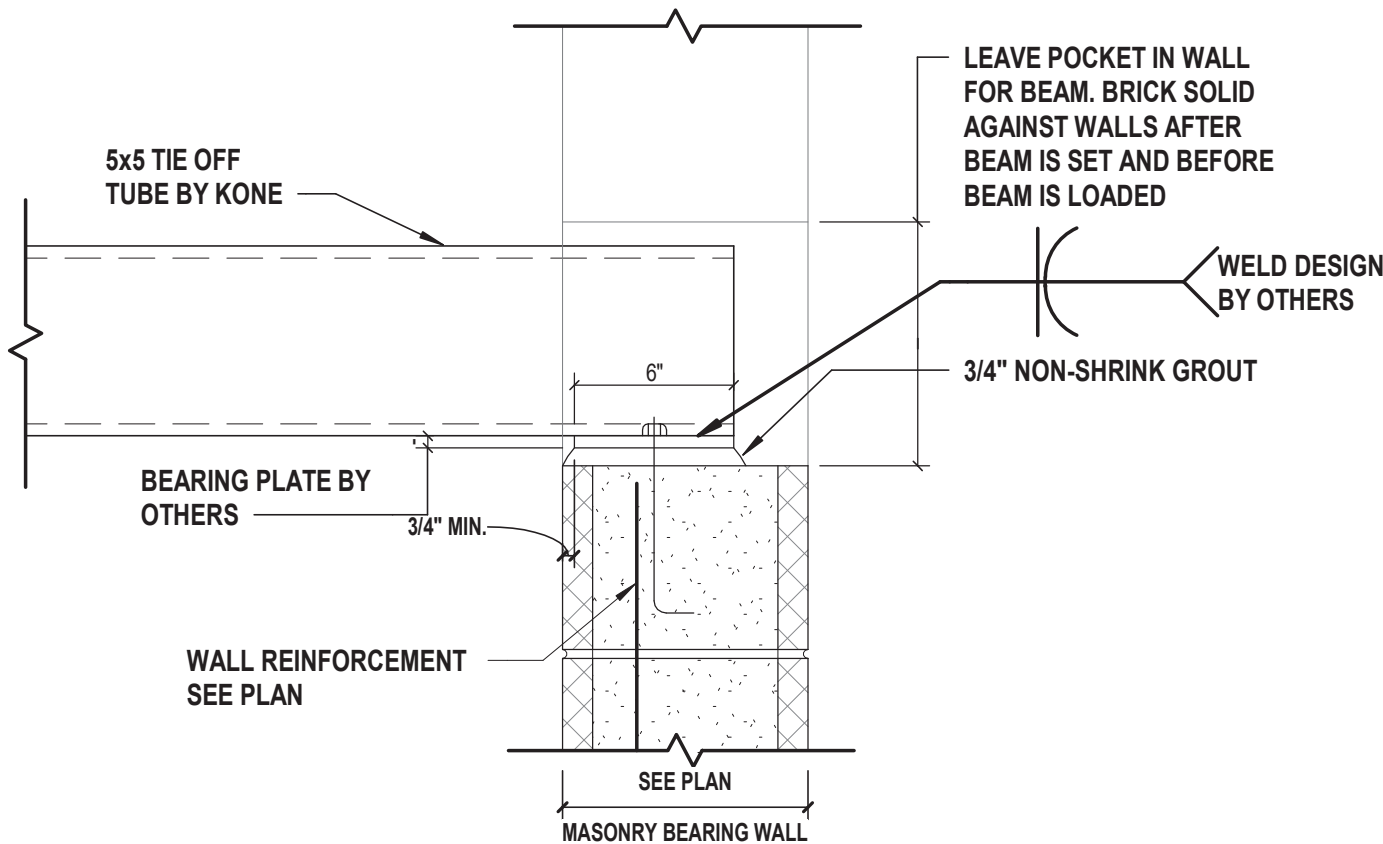


SECTION A

7 Non-Bearing CMU Wall Bracing Detail
SCALE: 1" = 1'-0"

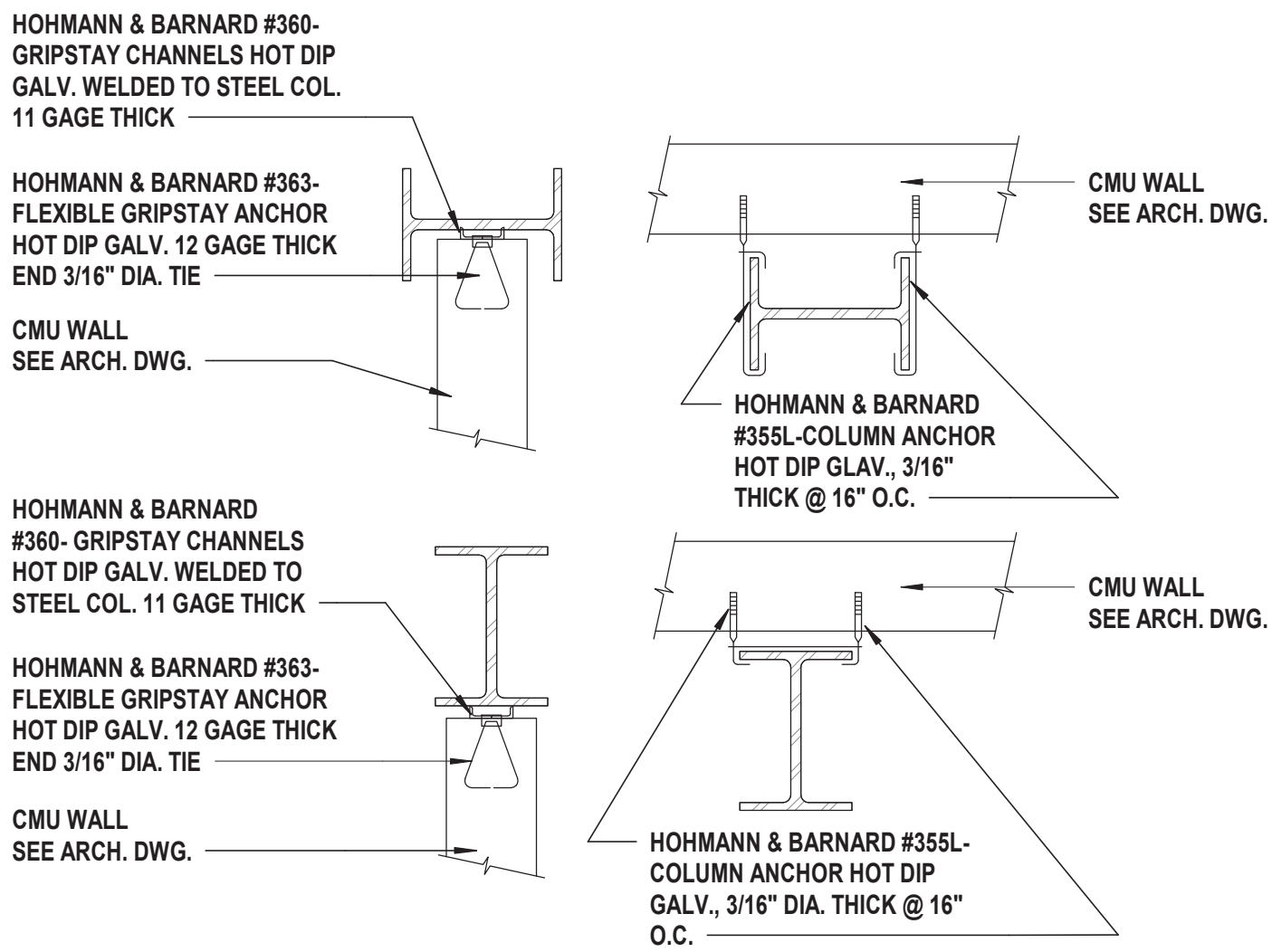


8 Typical CMU Beam Bracing
SCALE: NTS



NOTE:
FILL HOLLOW IN WALL UNDER BEARING PLATE SOLID
WITH MORTAR BEFORE PLACING BEARING PLATE.

9 Elevator Tie-Off Bearing on CMU Wall
SCALE: 1" = 1'-0"



10 Masonry Ties at Steel Column
SCALE: NTS

CONSULTANTS:		

MARK	DATE	DESCRIPTION

STATE OF NEW YORK
DANIEL J. AIELLO
LICENSED PROFESSIONAL ENGINEER
100515
04/30/2027
Exp. Date
DESIGNED BY: JJN
DRAWN BY: SRK
CHECKED BY: JJN
REVIEWED BY: DJA
PROJECT No: TRFD 2302
DATE: FEBRUARY 2025
SCALE: AS SHOWN

CLIENT
**THIELLS
ROSEVILLE FIRE
DISTRICT**

NEW 26-100 FIRE
HEADQUARTERS

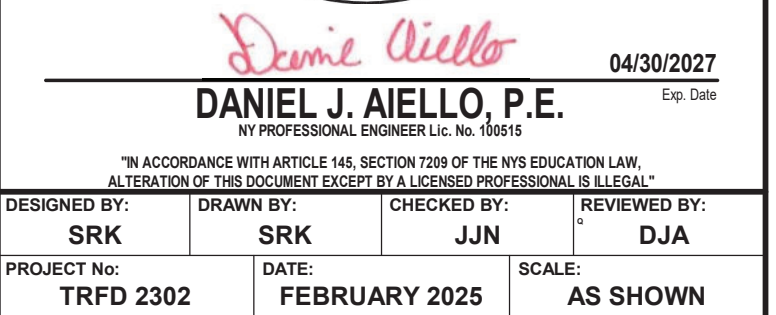
65 W RAMAPO ROAD
GARNERVILLE, NY 10923

CONTRACT
CONTRACT G

STATUS
FINAL BID DOCUMENT

SHEET TITLE
MASONRY DETAILS

DRAWING No.
S 521.00

[illegible]

**THIELLS
ROSEVILLE FIRE
DISTRICT**

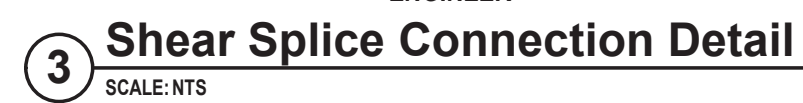
CONTRACT

CONTRACT G
GENERAL CONSTRUCTION

SHEET TITLE

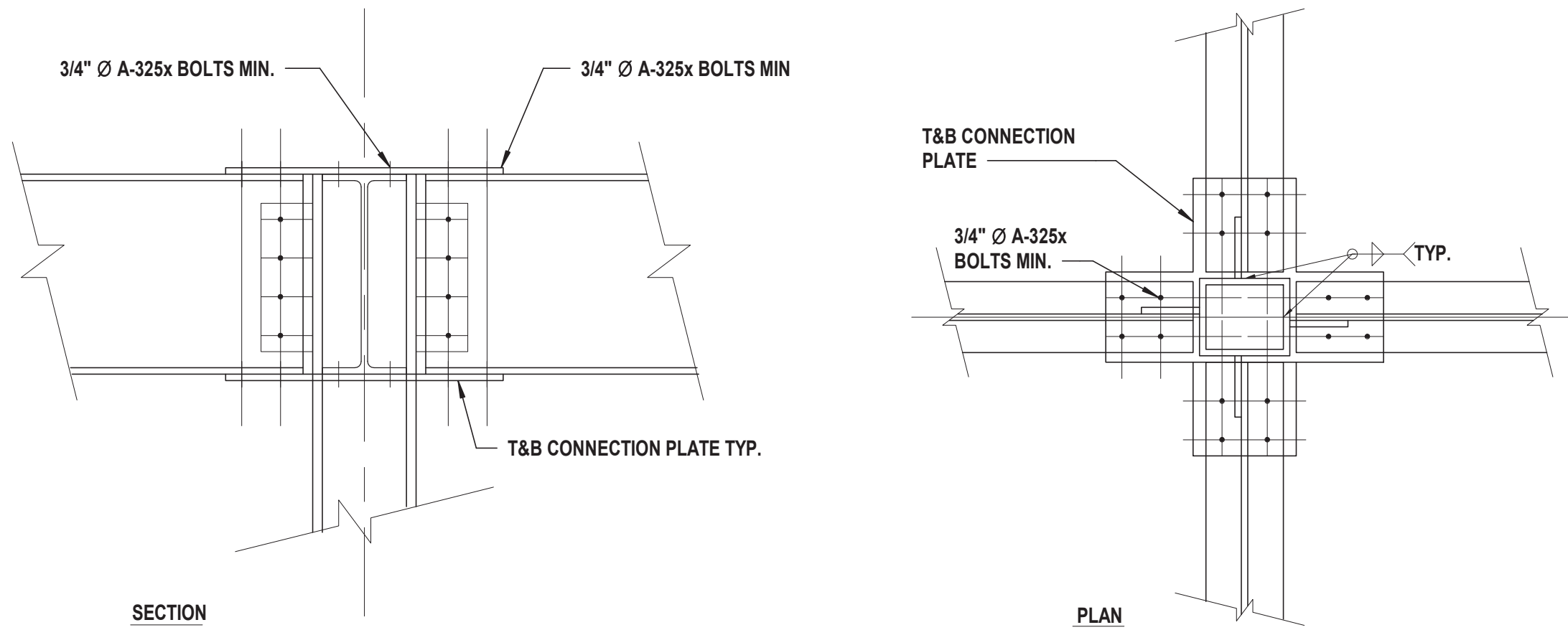
STRUCTURAL STEEL DETAILS

DRAWING No. **S 530.00**

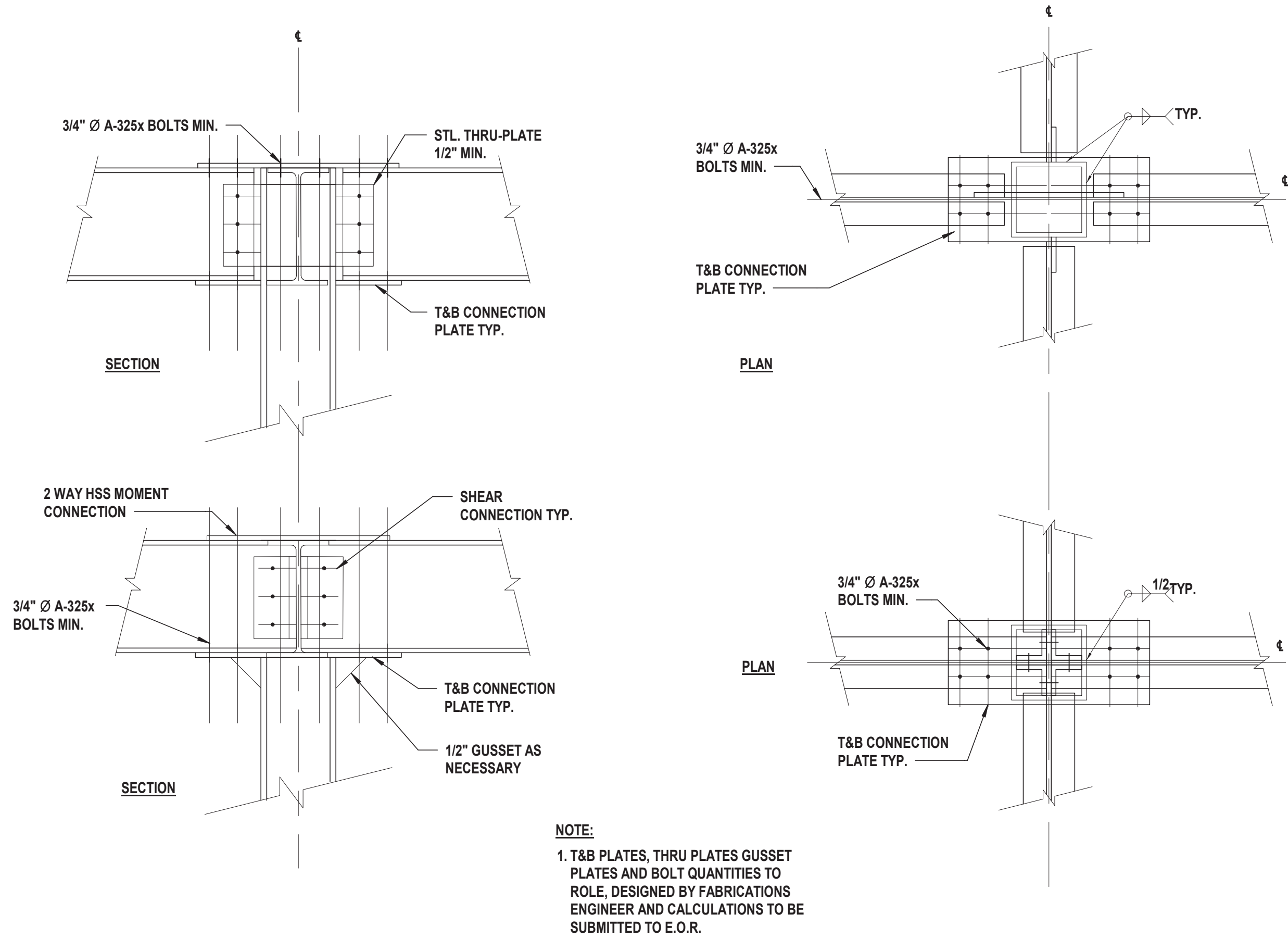


C:\Users\jrebauser\Documents\TRFD2302_Central03_S_jeibauser\CLC5.rvt

2/25/2025 12:05:06 PM



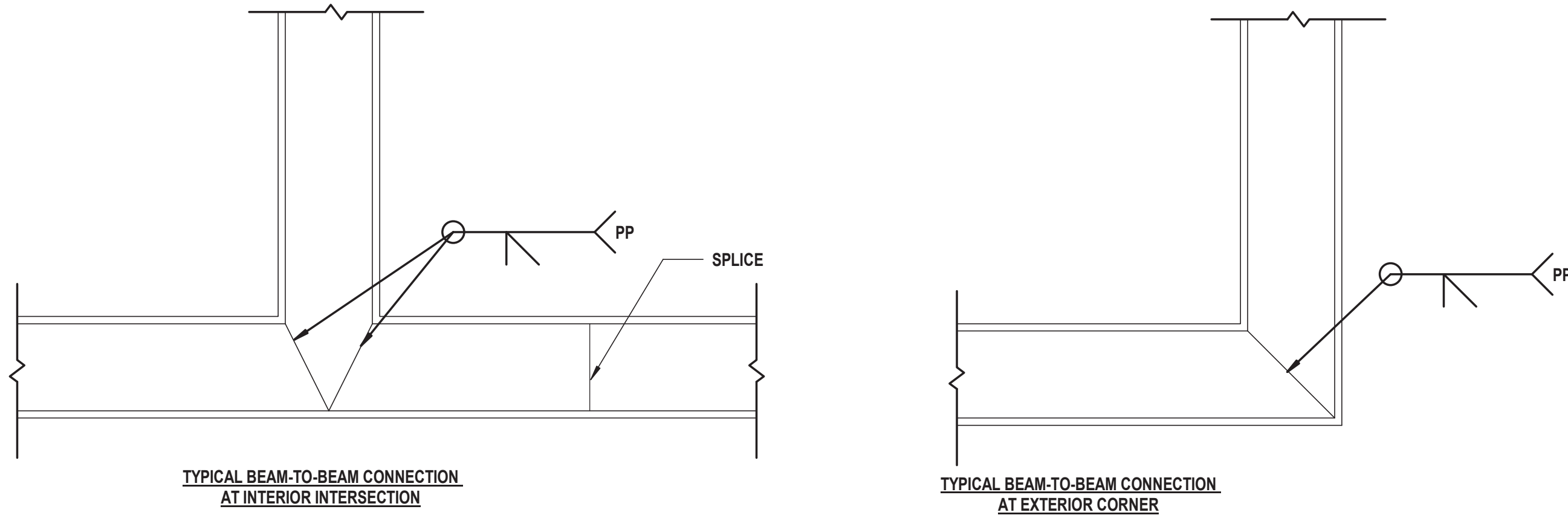
4 WAY HSS MOMENT CONNECTIONS



ALTERNATE HSS MOMENT CONNECTIONS

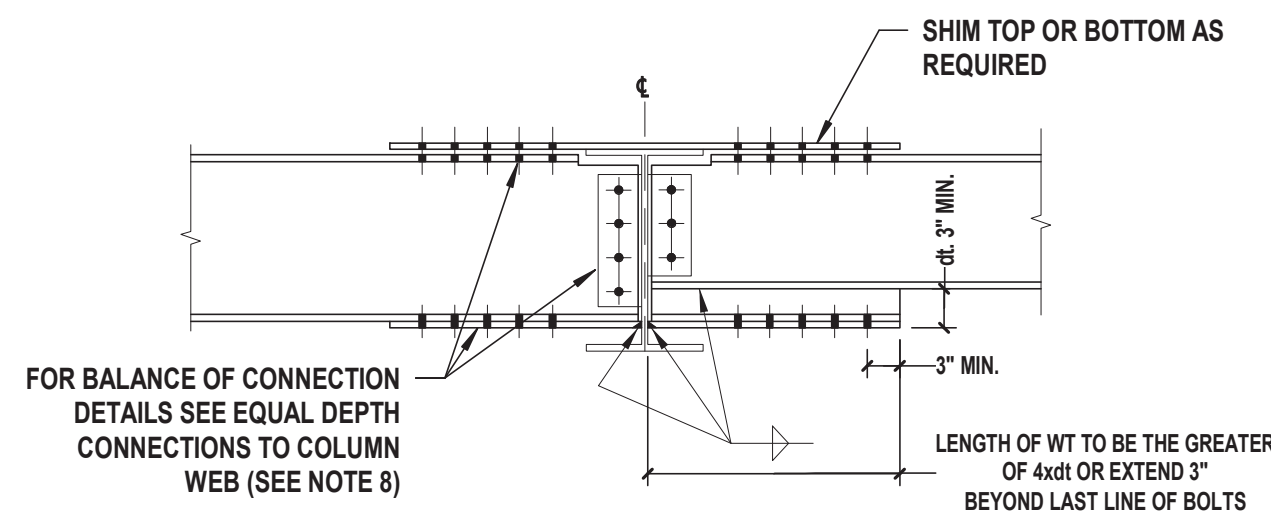
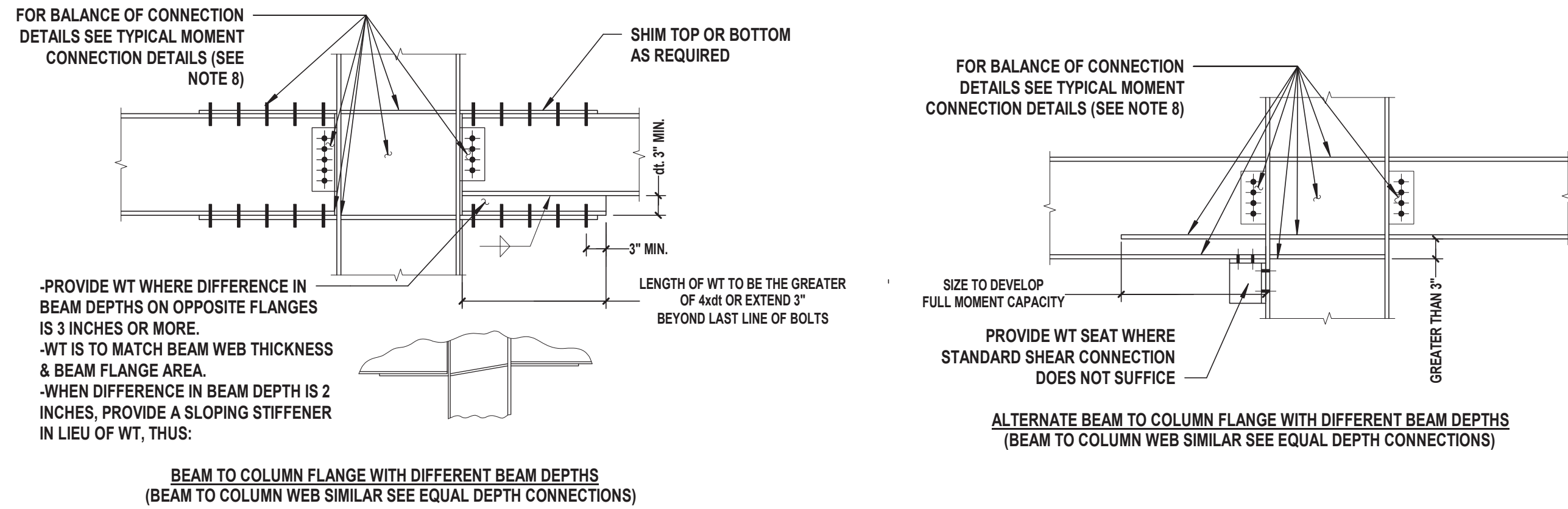
1 HSS Moment Connections

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

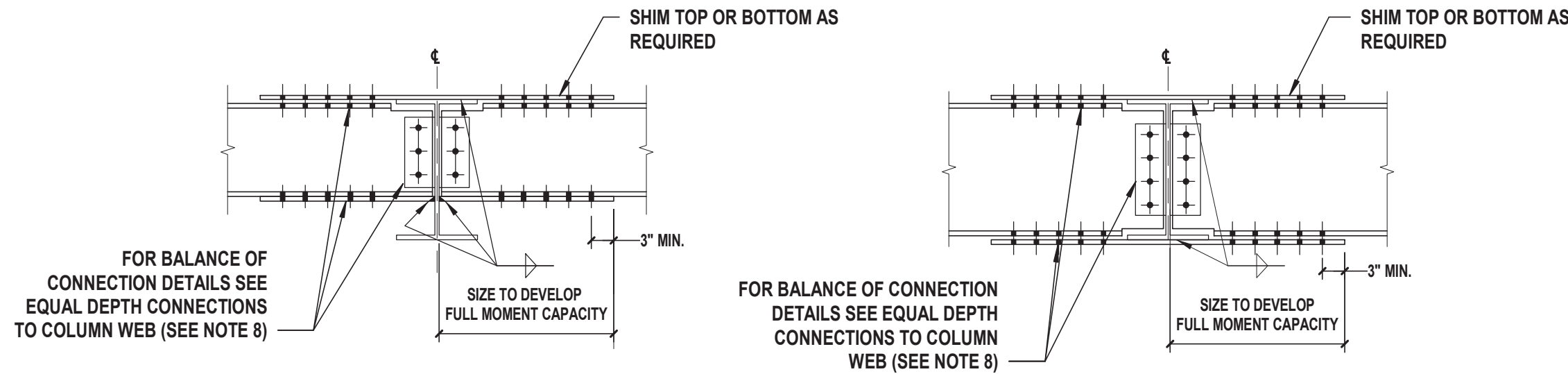


3 HSS Outrigger Details

SCALE: NTS



BEAM TO BEAM WITH DIFFERENT DEPTHS

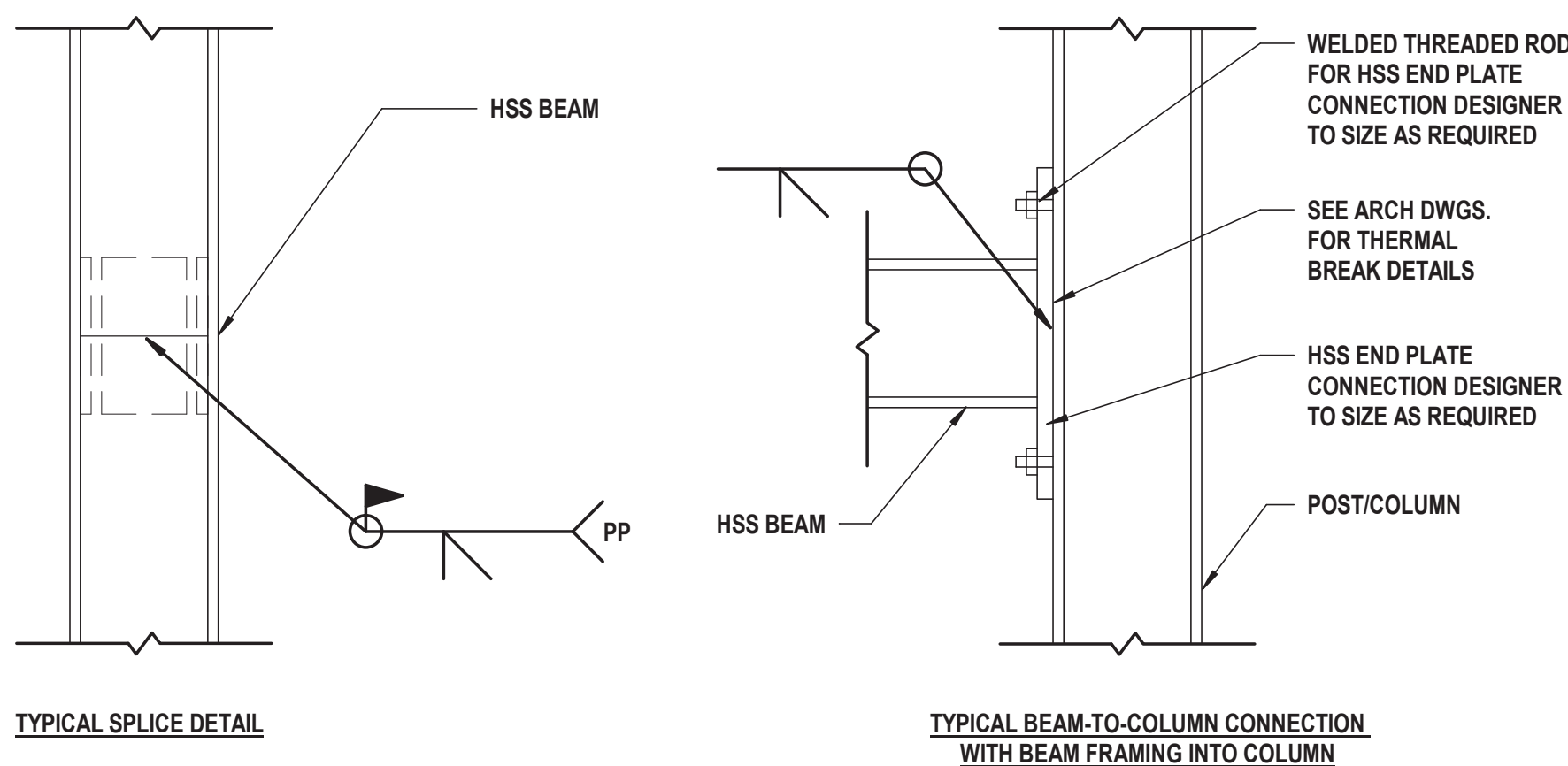


BEAM TO BEAM WITH DIFFERENT DEPTHS

BEAM TO BEAM WITH DIFFERENT DEPTHS

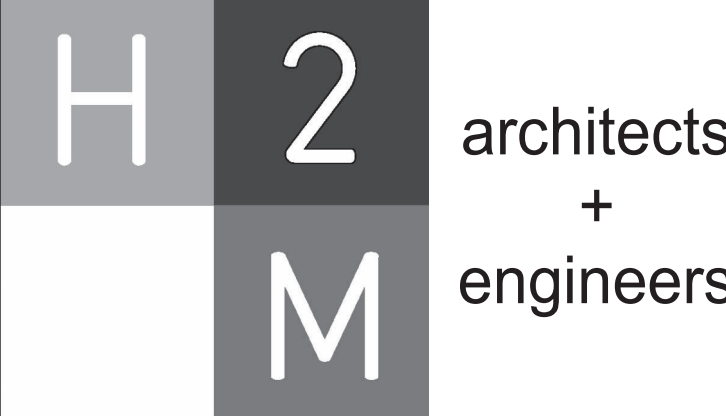
2 Through-Beam and Stepped Moment Connection Details

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



NOTES:

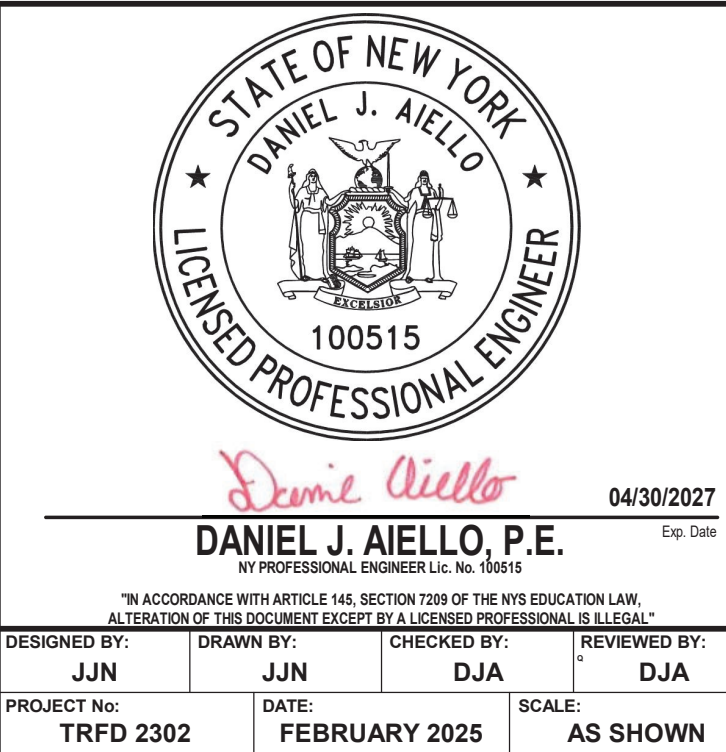
- WHERE SMALLER HSS INTERSECTS LARGER HSS, FILLET WELDS SHALL BE SUBSTITUTED FOR FLARE BEVEL WELDS.
- FABRICATOR TO COORDINATE WHERE SPLICES ARE REQUIRED FOR SHIPMENT AND FABRICATION REFER TO TYPICAL DETAIL HEREIN FOR INTENT.
- ALL EXPOSED STEEL SHALL BE GALVANIZED.
- REFER TO SCREEN MANUFACTURER SPECS AND DETAILS FOR ATTACHMENT OF SCREEN TO HSS TUBES



538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
631.756.8000 • www.h2m.com
NY Architecture & Landscape Architecture: No Certificate Required
NY Engineering Certificate of Authorization No.: 0018178

CONSULTANTS:

MARK	DATE	DESCRIPTION



CONTRACT

CONTRACT G

STATUS

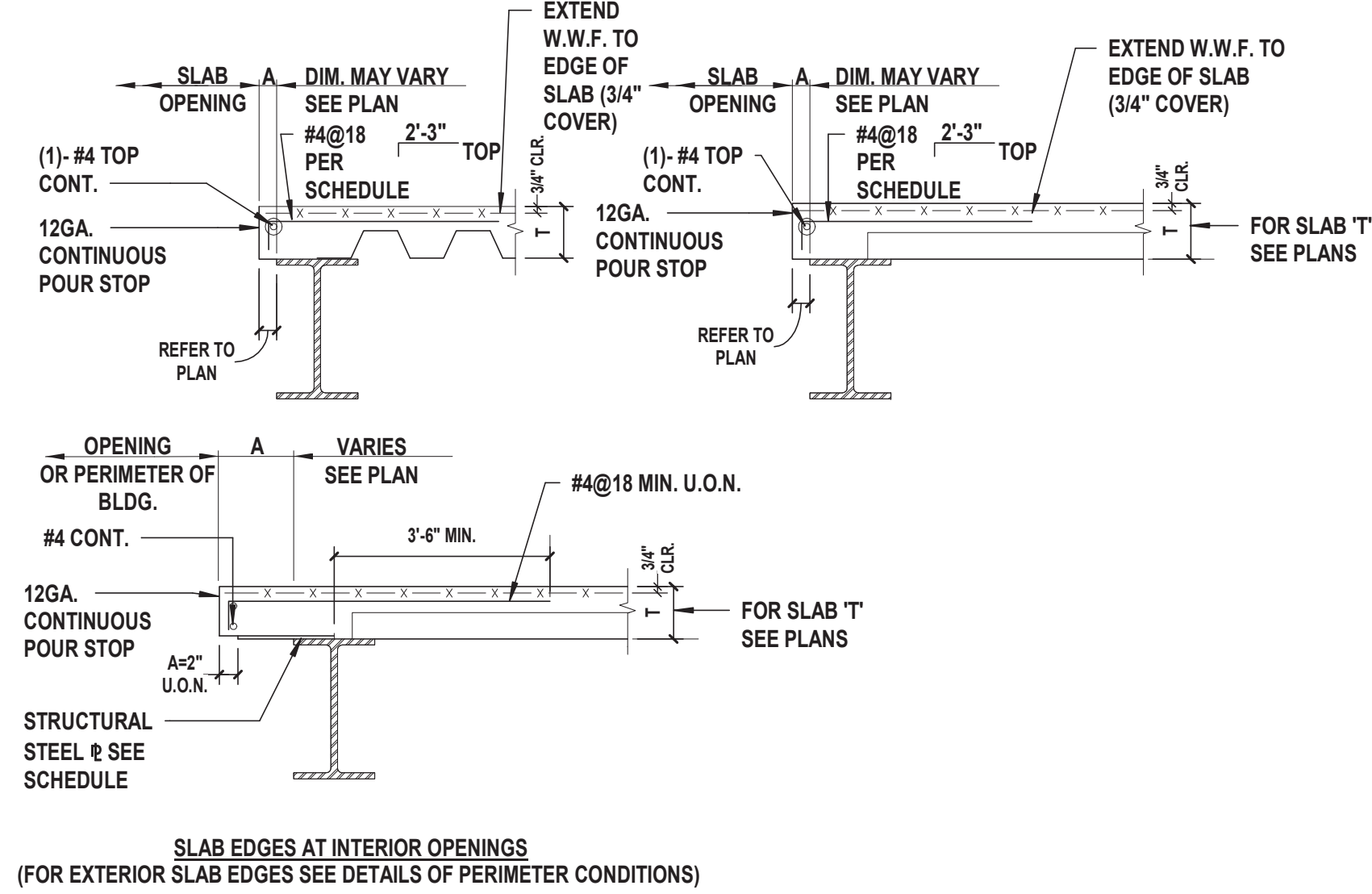
FINAL BID DOCUMENT

SHEET TITLE

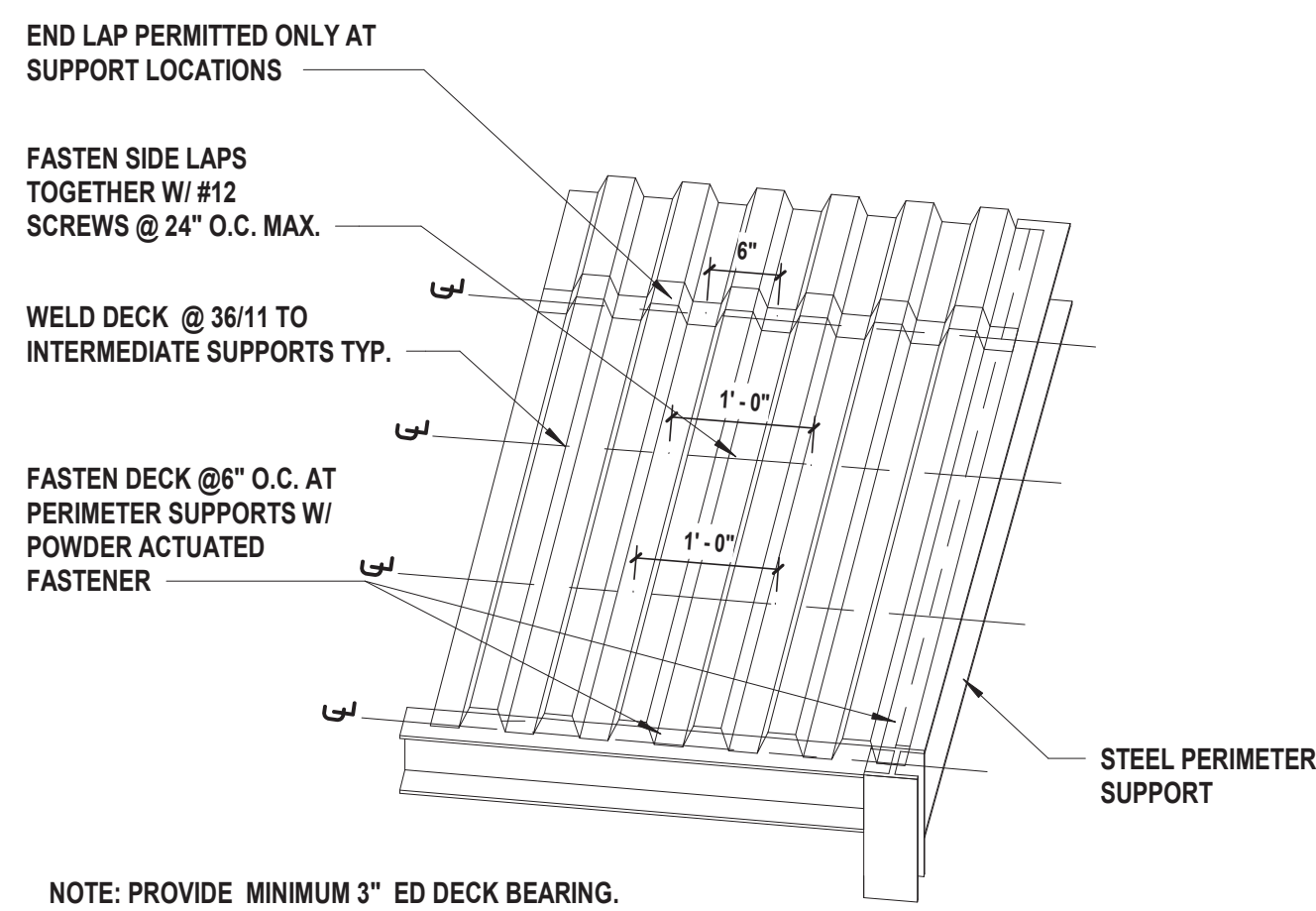
STRUCTURAL STEEL DETAILS

DRAWING No.

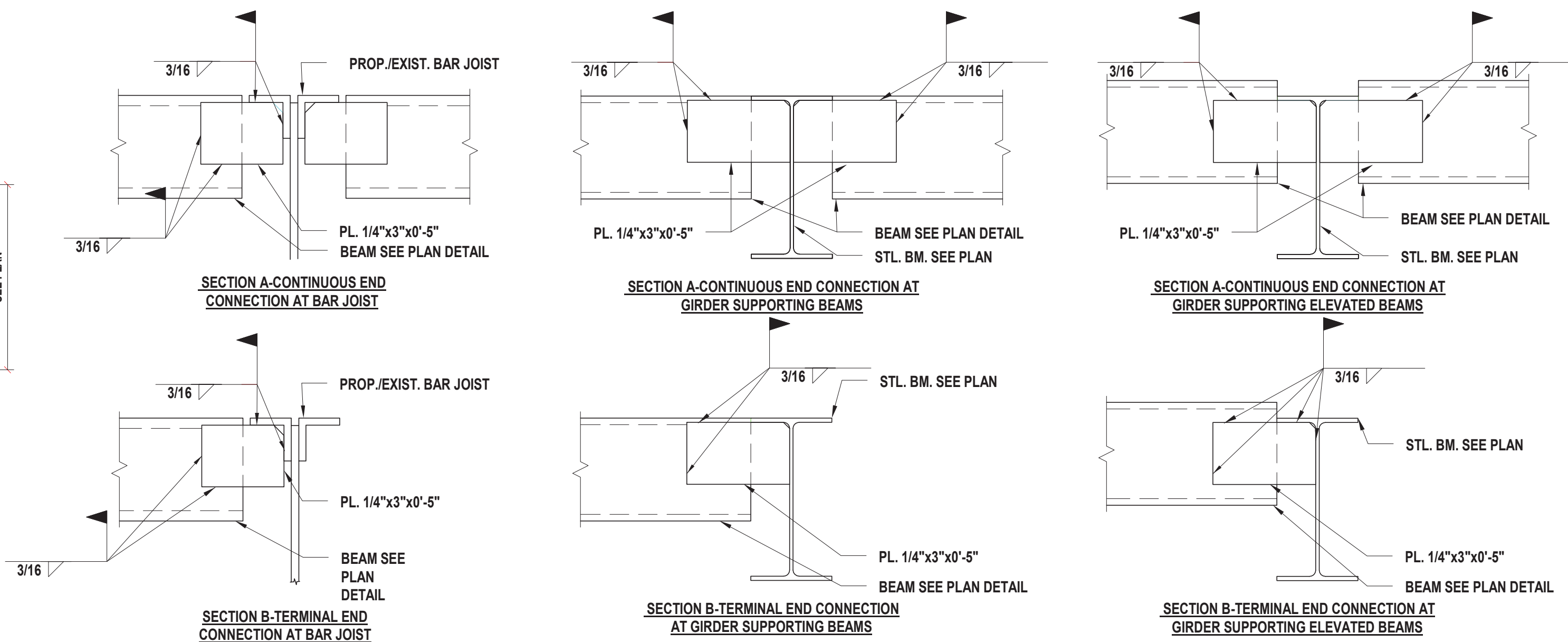
S 531.00

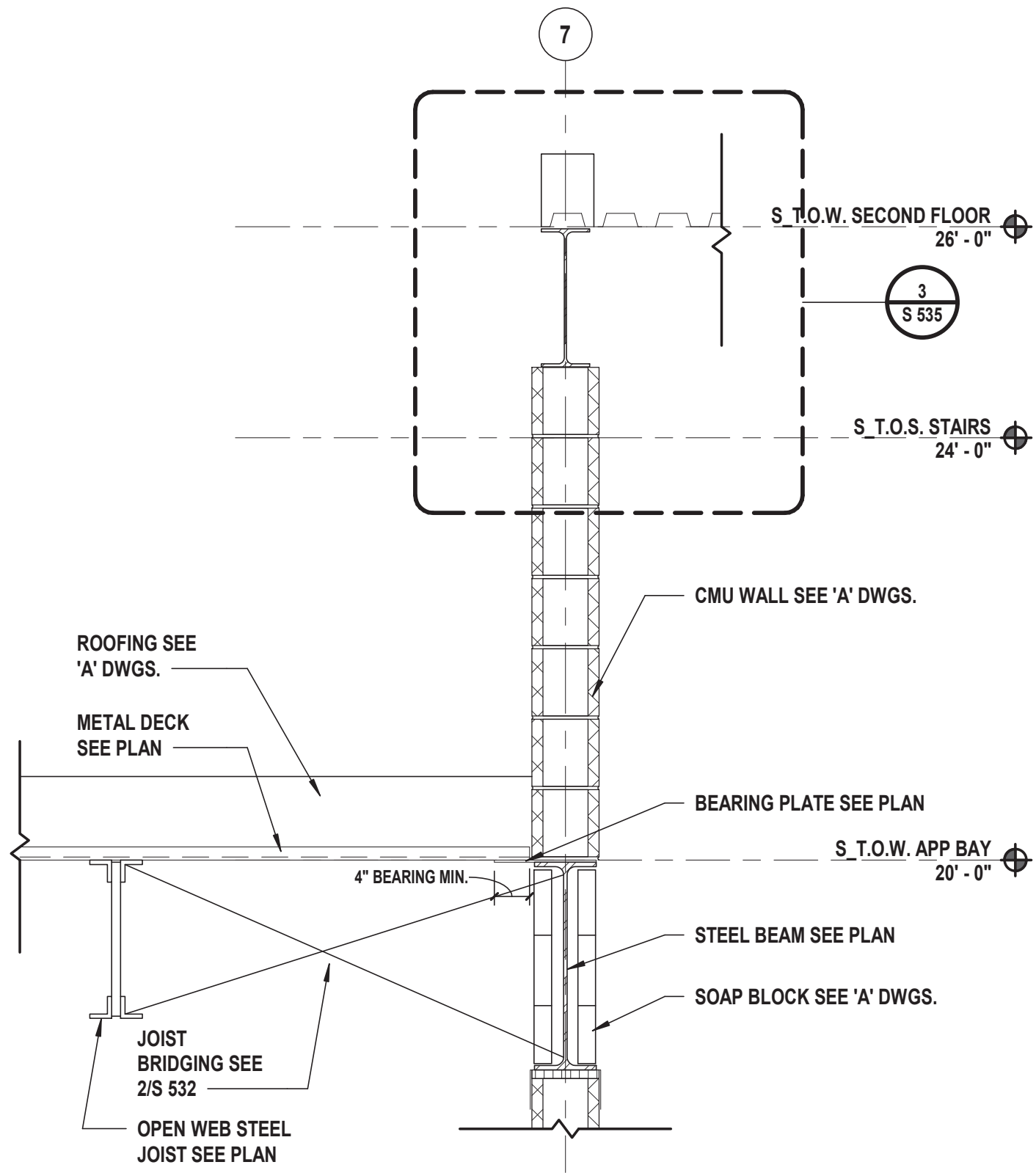


2 Typical Slab Reinforcement/ Pour Stop Details

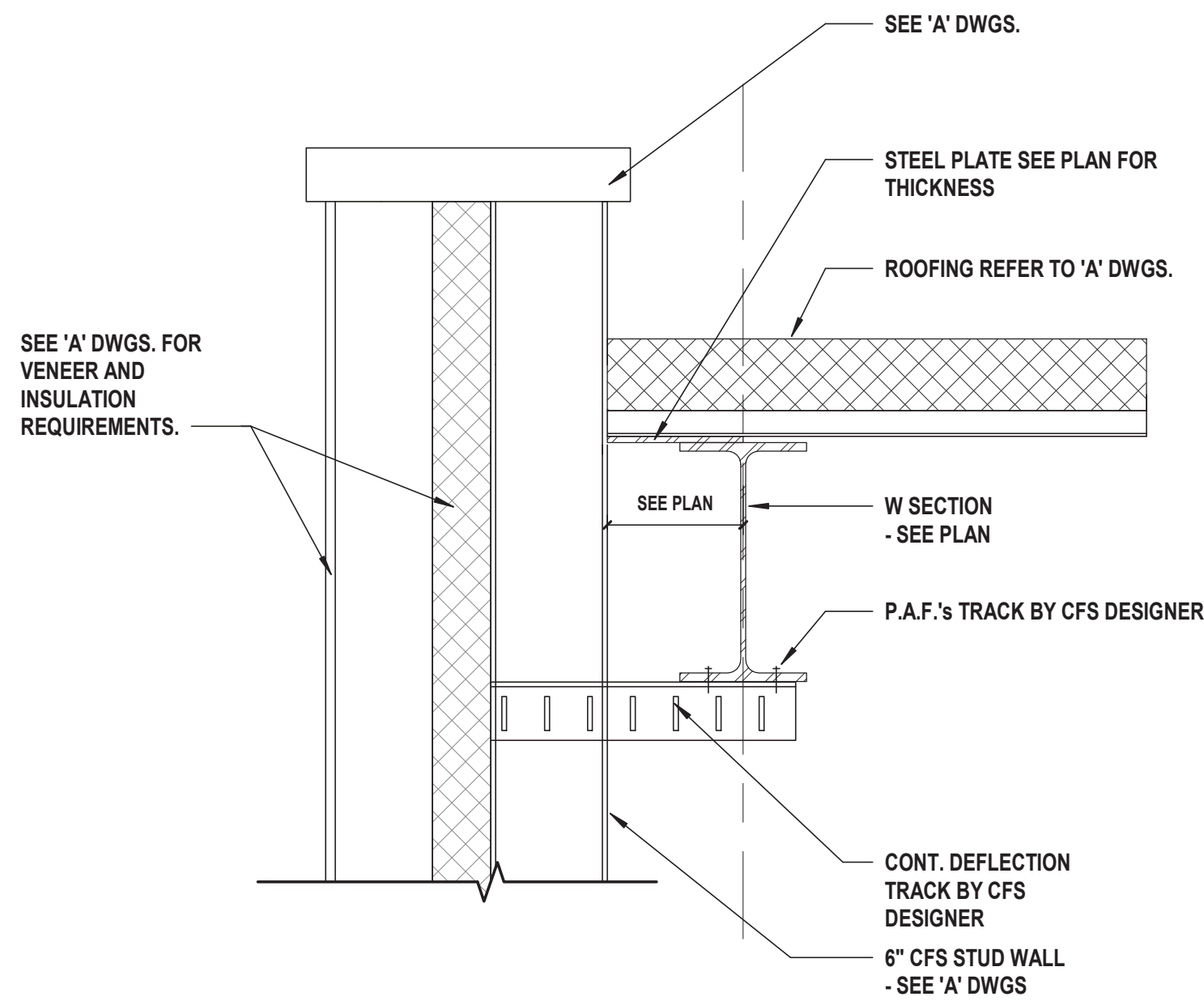


4 Typical Roof Deck Details

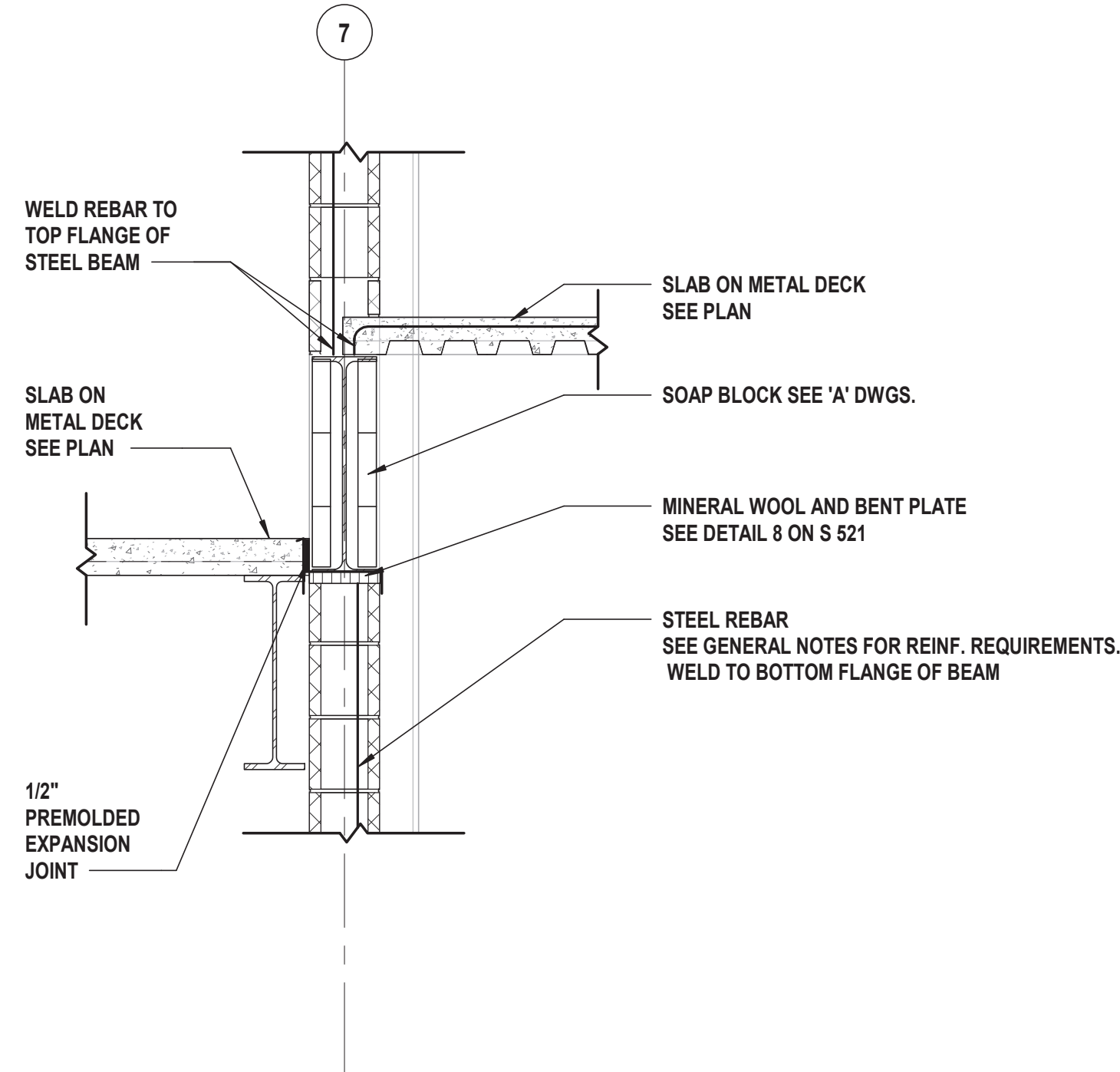




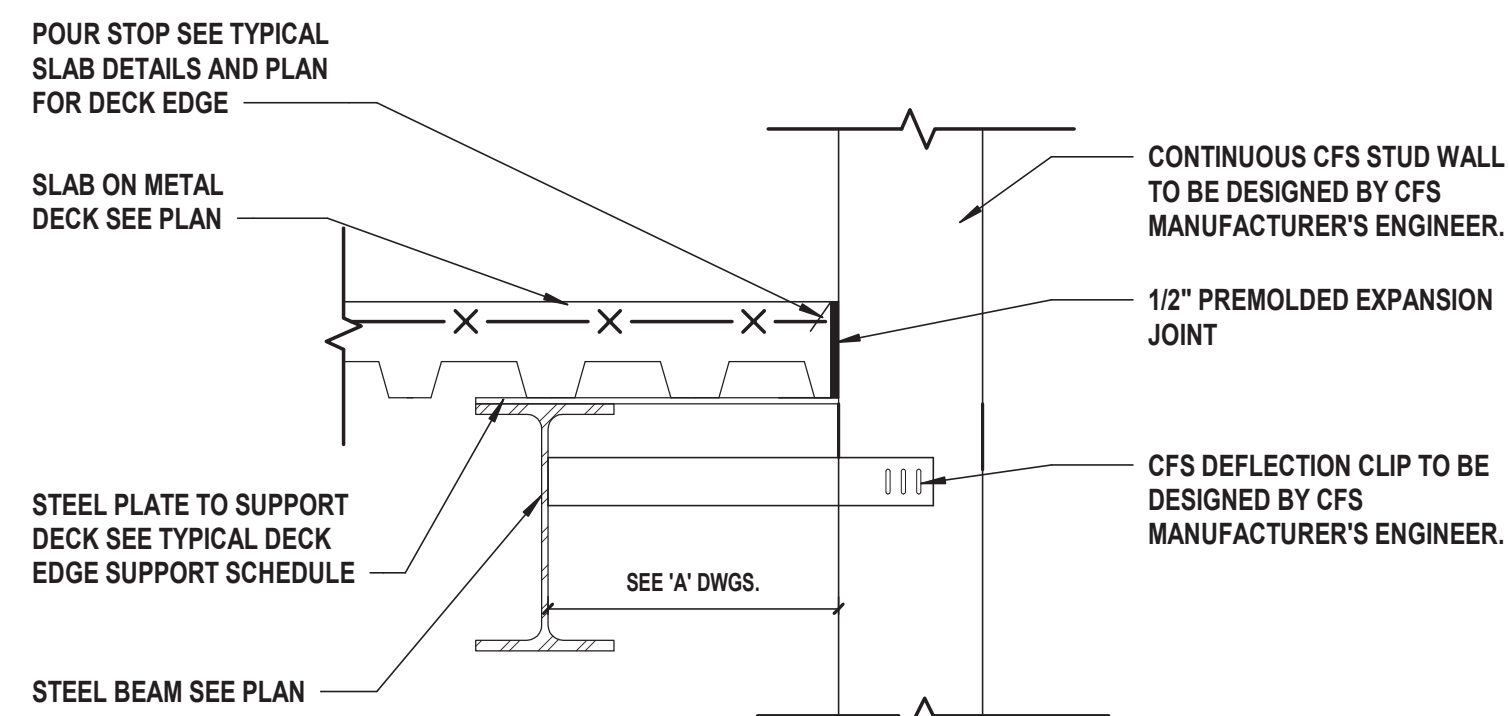
1 Section at Low to High Roof Transition
SCALE: 3/4" = 1'-0"



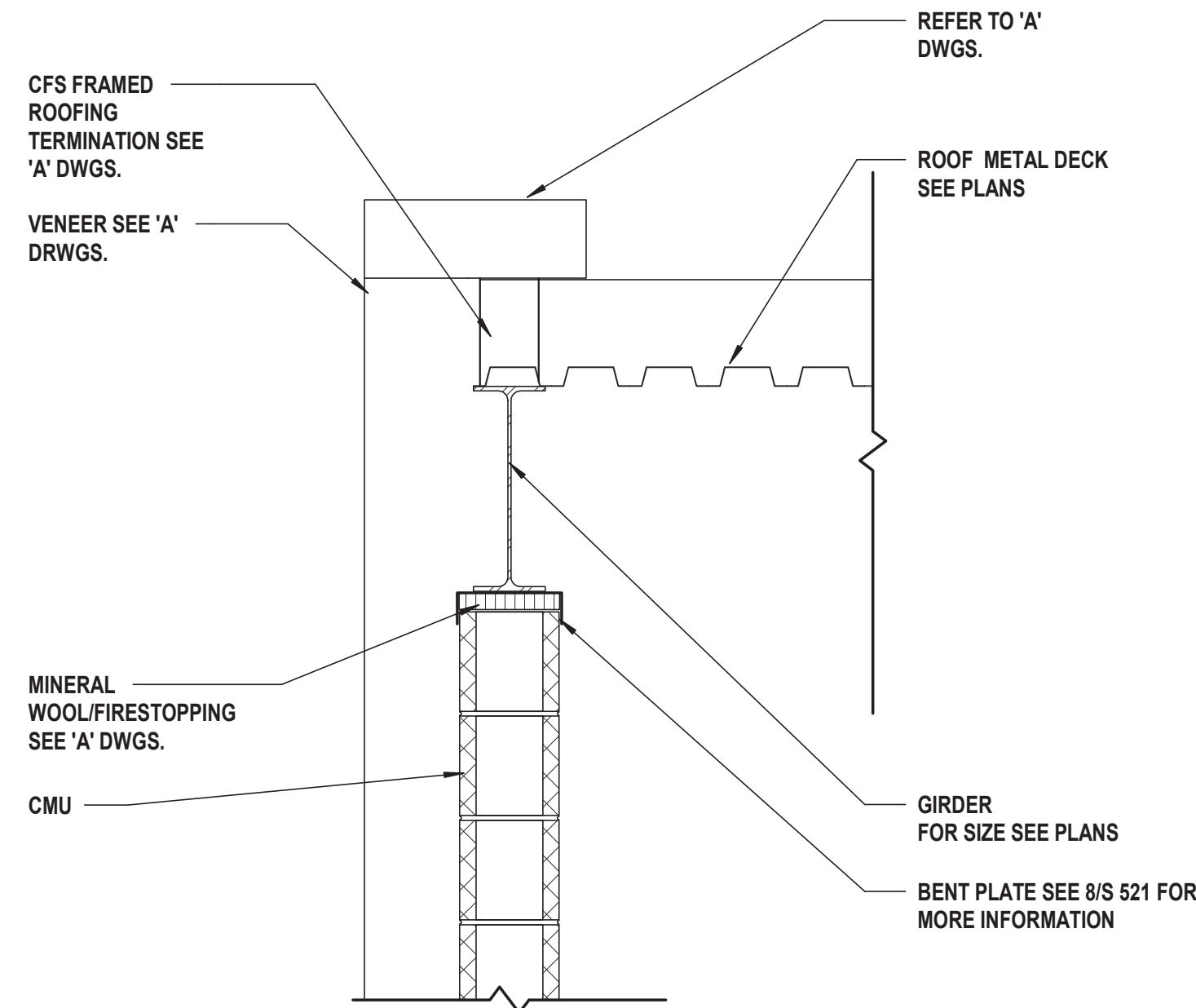
4 Typical CFS Deflection Clip at High Roof
SCALE: NTS



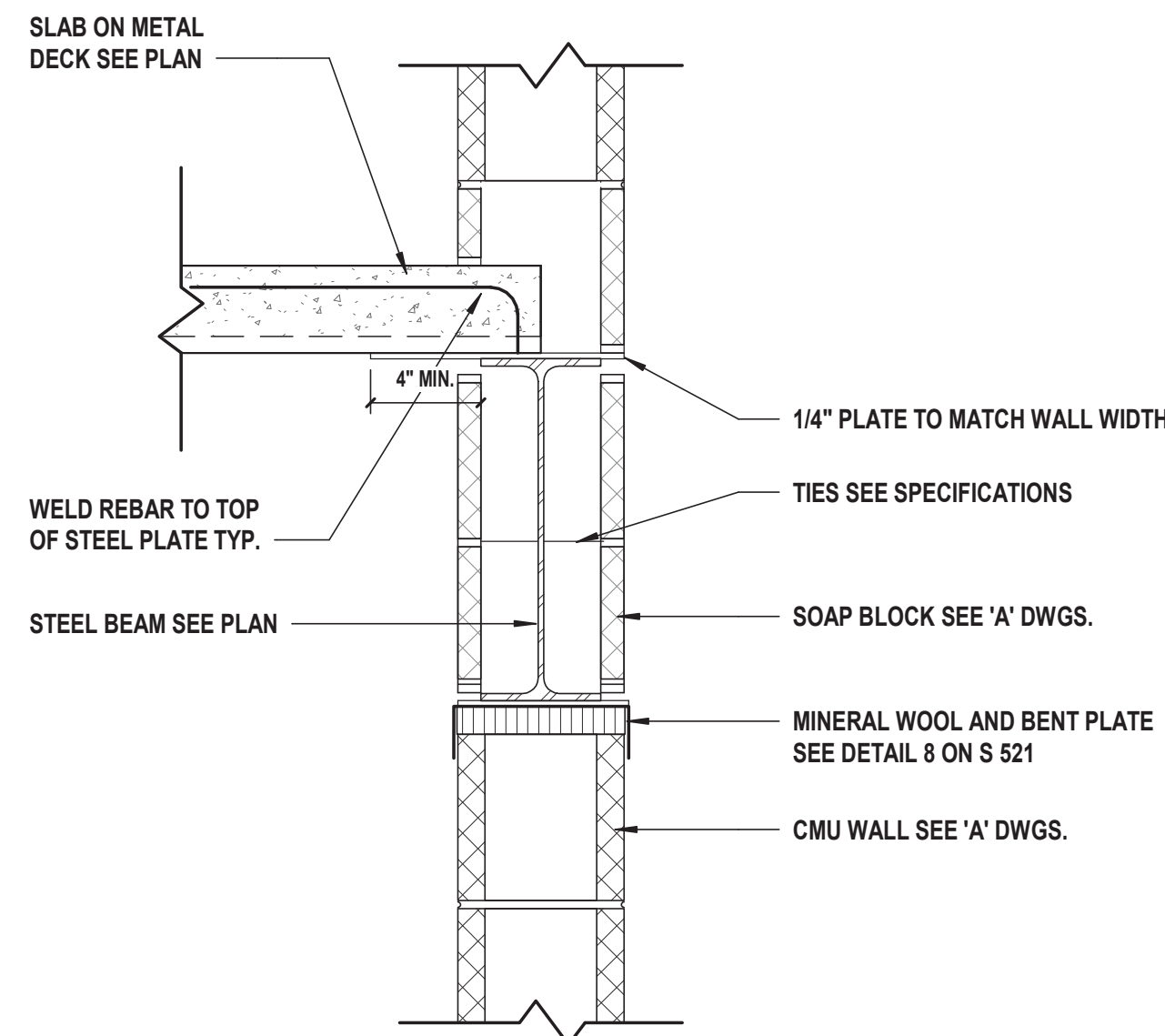
2 Section at Mezzanine/Second Floor Slab Junction
SCALE: 3/4" = 1'-0"



5 Deck Edge at Continuous CFS Stud Detail
SCALE: NTS



3 Typical High Roof Detail
SCALE: NTS



6 Deck Bearing on Steel Beam at Elevator Pit
SCALE: NTS

CONSULTANTS:		

MARK	DATE	DESCRIPTION

STATE OF NEW YORK
DANIEL J. AIELLO
LICENSED PROFESSIONAL ENGINEER
100515
04/30/2027
Exp. Date
DANIEL J. AIELLO, P.E.
NY PROFESSIONAL ENGINEER L.I.C. No. 100515
IN ACCORDANCE WITH ARTICLE 146, SECTION 7209 OF THE NYS EDUCATION LAW,
A SIGNATURE OF THIS DOCUMENT "EXCEPT" BY A LICENSED PROFESSIONAL IS ILLEGAL.

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
JJN	JJN	DJA	DJA
PROJECT No:	DATE:	SCALE:	AS SHOWN
TRFD 2302	FEBRUARY 2025		

CLIENT
**THIELLS
ROSEVILLE FIRE
DISTRICT**

NEW 26-100 FIRE
HEADQUARTERS

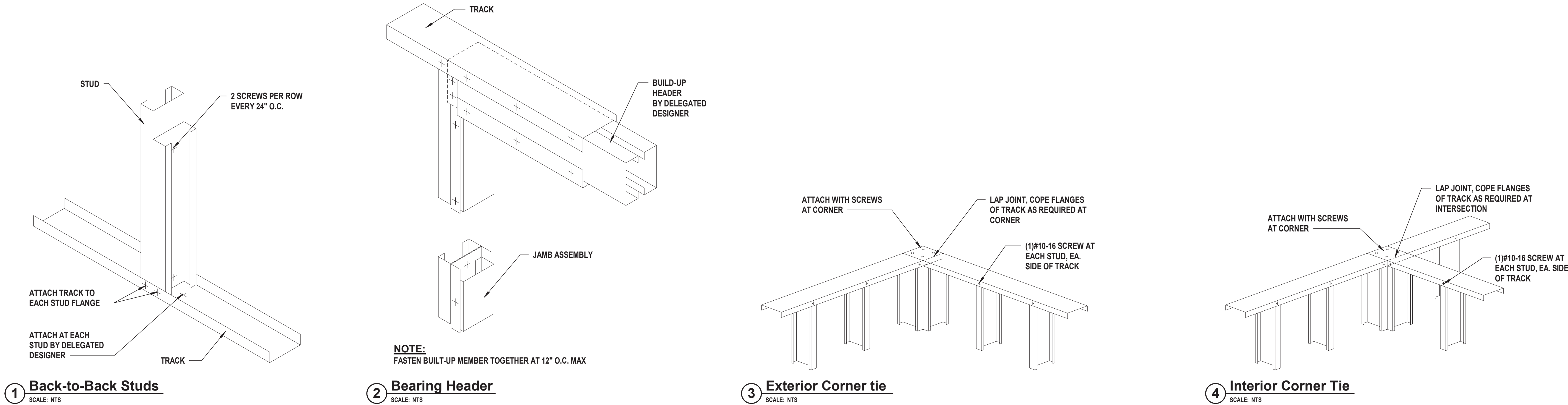
65 W RAMAPO ROAD
GARNERVILLE, NY 10923

CONTRACT
CONTRACT G

STATUS
FINAL BID DOCUMENT

SHEET TITLE
METAL DECK BEARING DETAILS

DRAWING No.
S 535.00



H2M

architects
+
engineers

538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
631.756.8000 • www.h2m.com
NY Architecture & Landscape Architecture: No Certificate Required
NY Engineering Certificate of Authorization No.: 0018178

CONSULTANTS:		

MARK	DATE	DESCRIPTION

Daniel J. Aiello, P.E.
NY PROFESSIONAL ENGINEER L.C. No. 100515
04/30/2027
Exp. Date

IN ACCORDANCE WITH ARTICLE 146, SECTION 2209 OF THE NYS EDUCATION LAW, ALTACTION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL, IS ILLEGAL.

DESIGNED BY: JJN	DRAWN BY: SRK	CHECKED BY: JJN	REVIEWED BY: DJA
PROJECT No: TRFD 2302	DATE: FEBRUARY 2025	SCALE: AS SHOWN	

CLIENT

THIELLS
ROSEVILLE FIRE
DISTRICT

NEW 26-100 FIRE
HEADQUARTERS

THIELLS
26
FD

65 W RAMAPO ROAD
GARNERVILLE, NY 10923

CONTRACT

CONTRACT G

STATUS

FINAL BID DOCUMENT

SHEET TITLE

COLD FORMED STEEL DETAILS

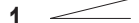
DRAWING No.


S 540.00

C:\Users\jreubauer\Documents\TRFD2302_Central03_S_Jreubauer.LCL05.rvt 2/25/2025 12:05:08 PM

COLUMN SCHEDULE																																										
COLUMN DESIGNATION	A		B					C							D					E	F						G	H					I				J					
	11	13	7	9	11	13	14	1	2	3	5	6	7	1	7	8	9	11	12	14	14	1	4	5	6	7	10	12	14	14	1	4	5	6	7	7	10	12	14	7	10	
HIGH ROOF [26'-0"]																																										
STAIR ROOF [24'-0"]																																										
LOW ROOF [20'-0"]																																										
FINISHED 2nd FLOOR [11'-4"]																																										
MEZZANINE [10'-0"]																																										
FIRST FLOOR [0'-0"]																																										
BASE PLATE TYPE	BP7	BP8	BP5	BP3	BP3	BP7	BP1	BP2	BP1	BP1	BP1	BP1	BP1	BP2	BP1	-	BP1	BP1	BP1	BP1	BP4	BP2	BP3	BP1	BP1	BP4	BP4	BP1	BP1	BP9	BP2	BP4	BP1	BP4	BP3	-	BP1	BP2	BP10	BP6	BP6	

NOTES:

1.  INDICATES TOP OF COLUMN/TOP PLATE

2.  INDICATES BOTTOM OF BASE PLATE

3. SEE BASE PLATE DETAIL AND SCHEDULE TO DETERMINE BOTTOM OF COLUMN ELEVATION. COORDINATE TOP OF COLUMN ELEVATION WITH ALL CAP PLATE DESIGNS.
4. SEE "FOOTING SCHEDULE" FOR FOOTING SIZE AND REINFORCING.

5. ALL BASE PLATES TO BEAR ON CONCRETE SHALL BE SHIMMED USING 2" NON-METALLIC, NON-SHRINK GROUT.

6. FOR COLUMNS POSTED OFF OF BEAMS SEE 10/S 530 FOR BASEPLATE SIZE AND ATTACHMENT

TENSION DEVELOPMENT LENGTH (Ld) (Inches)

BAR SIZE	Fy = 60,000 PSI
	CONCRETE: 4000 PSI
#3	15
#4	19
#5	24
#6	29
#7	42
#8	48
#9	54
#10	60
#11	66

TENSION DEVELOPMENT LENGTH (Ld) FOR TOP BAR (Inches)

BAR SIZE	Fy = 60,000 PSI
	CONCRETE: 4000 PSI
#3	19
#4	25
#5	31
#6	37
#7	54
#8	62
#9	70
#10	78
#11	85

TENSION LAP SPlice LENGTH (CLASS B MIN.) (Inches)

BAR SIZE	Fy = 60,000 PSI
	CONCRETE: 4000 PSI
#3	18
#4	24
#5	30
#6	36
#7	52
#8	60
#9	67
#10	75
#11	82

TENSION LAP SPlice LENGTH FOR TOP BAR (CLASS B MIN.) (Inches)

BAR SIZE	Fy = 60,000 PSI
	CONCRETE: 4000 PSI
#3	24
#4	31
#5	39
#6	47
#7	68
#8	78
#9	87
#10	97
#11	106

MASONRY DEVELOPMENT LENGTH (Ld)

BAR SIZE	Fy = 60,000 PSI
	F'm = 1500 PSI
#3	9
#4	12
#5	16
#6	29
#7	39
#8	59
#9	74
#10	91
#11	111

NOTES:

1. REINFORCEMENT IS UNCOATED, WITH Fy=60,000 PSI.

2. CONCRETE IS NORMAL WEIGHT (122-150#/C.F.).

3. FOR "TOP" BAR SPlice LENGTH ("TOP" IS DEFINED BY ACI 318 AS HAVING MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW THE BAR), TABULATED LENGTHS HAVE BEEN MULTIPLIED BY 1.3.

4. LENGTHS TABULATED MUST BE MULTIPLIED BY THE FOLLOWING MODIFICATION FACTORS:

A. LIGHTWEIGHT CONCRETE1.3

B. EPOXY-COATED BARS:

a. BARS WITH COVER <3db, OR WITH CLEAR SPACING <6db ..1.5 FOR BOTTOM & VERTICAL BARS, 1.3 FOR 'TOP' BARS *

b. ALL OTHER CONDITIONS ...1.2

* FOR EPOXY-COATED 'TOP' BARS THE MAXIMUM FOR COMBINED FACTORS= 1.7

5. WHERE TENSION DEVELOPMENT LENGTH (Ld) IS REQUIRED ON PLANS OR IN DETAILS, SEE TENSION DEVELOPMENT LENGTH TABLES.

6. CLASS A LAP SPlice LENGTHS ARE EQUAL TO TENSION DEVELOPMENT LENGTHS. SEE TABLES FOR TENSION DEVELOPMENT LENGTHS (Ld). APPLY APPROPRIATE MODIFICATION FACTORS TO CLASS A SPlice LENGTHS.

NOTES:

1. REINFORCEMENT IS UNCOATED, WITH Fy= 60,000 PSI.

2. NET COMPRESSIVE STRENGTH OF F'm = 1500 PSI.

3. TABULATED LENGTHS HAVE USED "9db" FOR THE SMALLEST "K" VALUE IN DEVELOPMENT LENGTH BARS.

4. FACTORS APPLIED TO LENGTHS ABOVE ARE:

A. NO. 3 THROUGH NO. 5 BARS = 1.0

B. NO. 6 THROUGH NO. 7 BARS = 1.3

C. NO. 8, THROUGH NO. 11 BARS = 1.5

5. LENGTHS TABULATED MUST BE MULTIPLIED BY THE FOLLOWING MODIFICATION FACTORS:

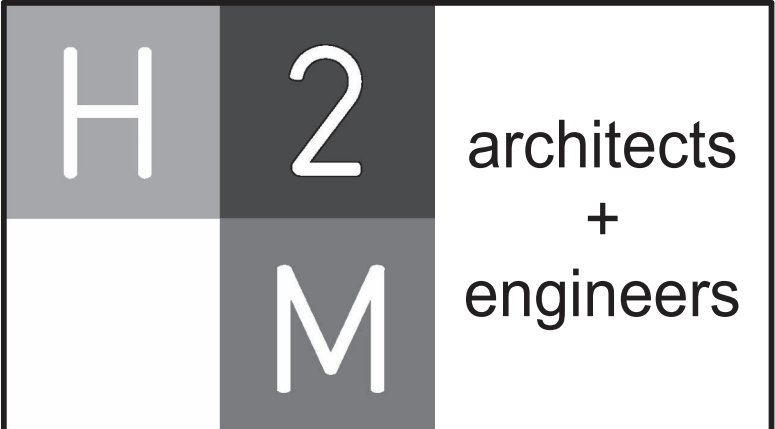
A. EPOXY-COATED BARS SHALL BE TAKEN AS 150 PERCENT OF LENGTH DETERMINED

1 Concrete Rebar Development Length Tables

SCALE: NTS

2 Masonry Rebar Development Length Tables

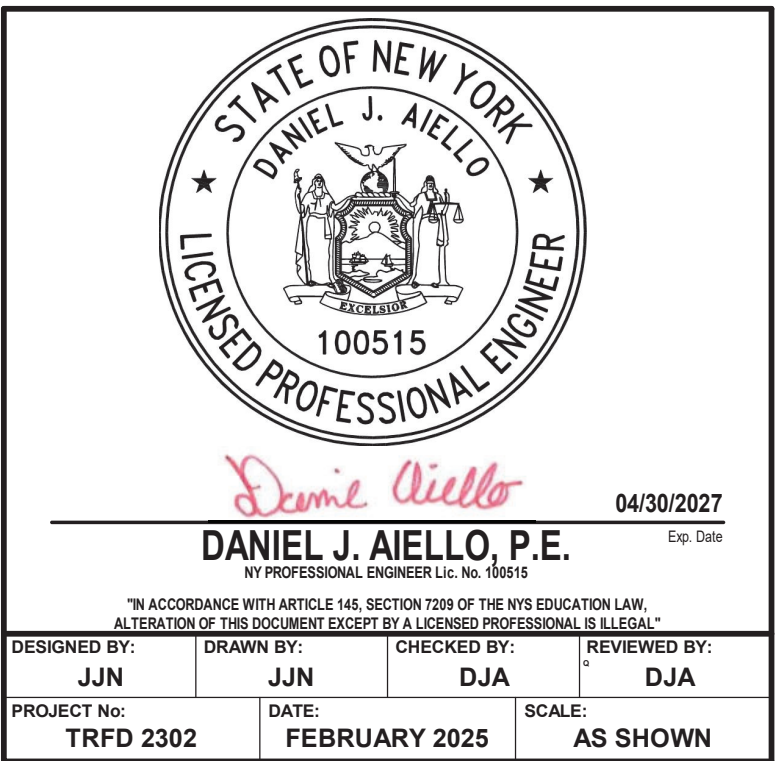
SCALE: NTS



538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
631.756.8000 • www.h2m.com
NY Architecture & Landscape Architecture: No Certificate Required
NY Engineering Certificate of Authorization No.: 0018178

CONSULTANTS:

MARK	DATE	DESCRIPTION



CLIENT

THIELLS
ROSEVILLE FIRE
DISTRICT

NEW 26-100 FIRE
HEADQUARTERS



65 W RAMAPO ROAD
GARNERVILLE, NY 10923

CONTRACT

CONTRACT G
GENERAL CONSTRUCTION

STATUS

FINAL BID DOCUMENT

SHEET TITLE

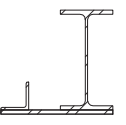
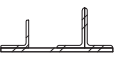
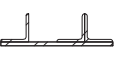

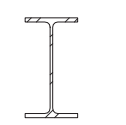
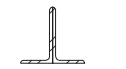
COLUMN AND REBAR
DEVELOPMENT SCHEDULES

DRAWING No.

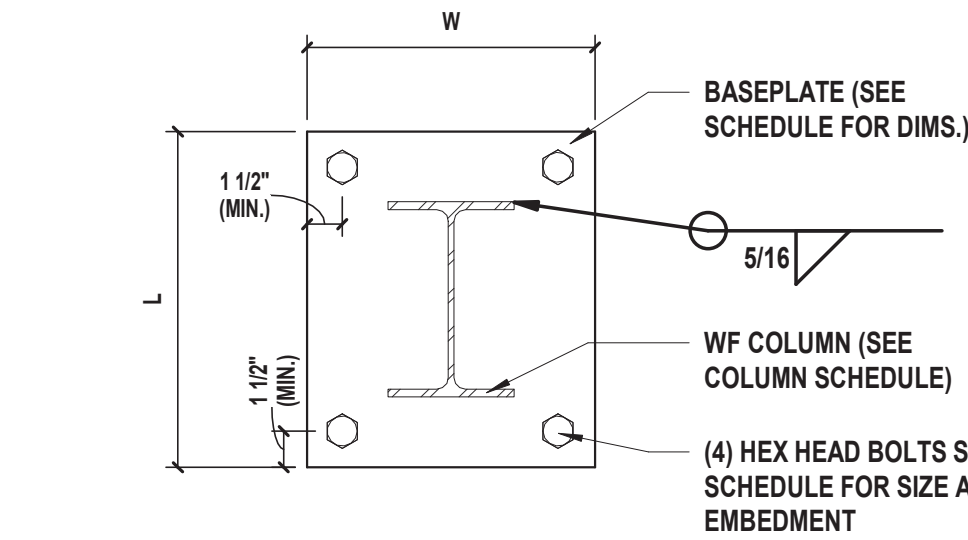
S 600.00

BASEPLATE SCHEDULE							
BASEPLATE ID	WIDTH, W (in.)	LENGTH, L (in.)	BASEPLATE THICKNESS (in.)	COLUMN OFFSET (in.)	ANCHOR BOLT DIA. (in.)	EMBEDMENT (in.)	NOTES
BP1	12	14	3/4	N/A	3/4	12	1
BP2	12	17	1	1 1/2	1	24	1 - 2
BP3	14	18	1 1/4	1	1	24	1 - 2
BP4	16	22	1 1/4	N/A	1 1/4	24	1 - 2
BP5	12	18	3/4	SEE DETAIL	3/4	12	1
BP6	6	14	3/4	N/A	1/2	12	1
BP7	11	11	3/4	N/A	3/4	12	1
BP8	11	11	1	SEE DETAIL	3/4	24	1
BP9	12	14	1	N/A	1	24	1
BP10	20	20	1 3/4	N/A	1 3/4	24	1

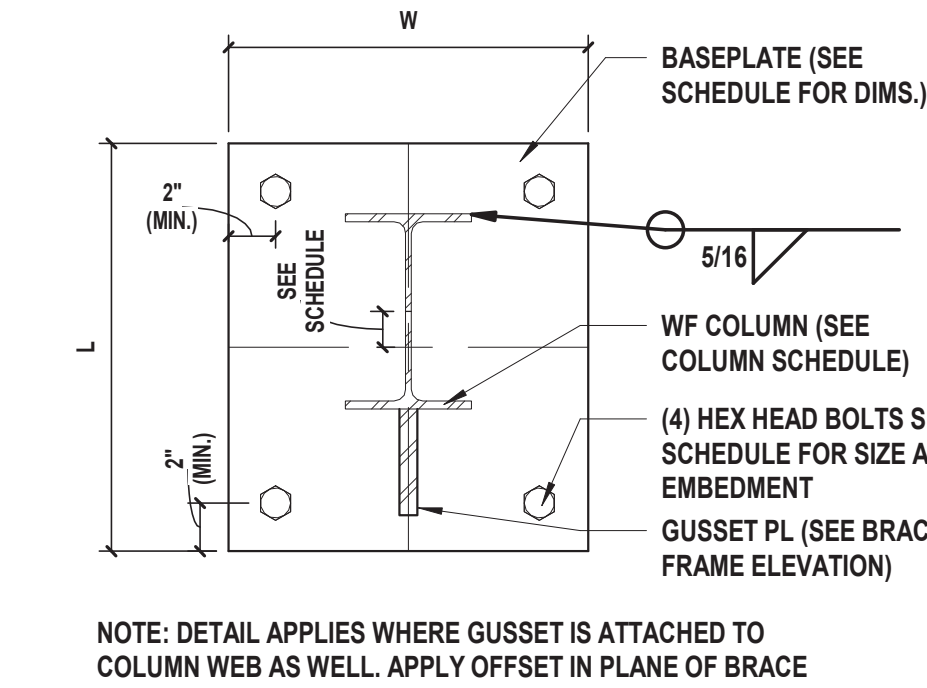
- NOTES:
- REFER TO BASEPLATE DETAILS FOR ANCHOR BOLT LOCATIONS
 - GUSSET CONNECTIONS TO BE DESIGNED BY STEEL FABRICATOR'S ENGINEER

LINTEL SCHEDULE			
MARK	SIZE	DETAILS	COMMENTS
LL-1	W16X26 & L3 1/2x3 1/2 x 5/16 W/ 1/4" THK. STEEL PLATE. WIDTH OF PLATE TO MATCH WIDTH OF WALL SEE 'A' DWGS FOR WALL PROFILES		NOTES 1-4
LL-2	(2) L4x3 1/2x 5/16 & L3 1/2x3 1/2 x 5/16 W/ 1/4" THK. STEEL PLATE. WIDTH OF PLATE TO MATCH WIDTH OF WALL SEE 'A' DWGS FOR WALL PROFILES		NOTES 1-5
LL-3	(2) L3 1/2x3 1/2x 5/16 & L3 1/2x3 1/2 x 5/16 W/ 1/4" THK. STEEL PLATE. WIDTH OF PLATE TO MATCH WIDTH OF WALL SEE 'A' DWGS FOR WALL PROFILES		NOTES 1-5
LL-4	(2) L3 1/2x3 1/2x 5/16		NOTES 1-5
LL-5	W8x10		NOTES 1-4
LL-6	(2) L4vx3 1/2x 5/16		NOTES 1-5

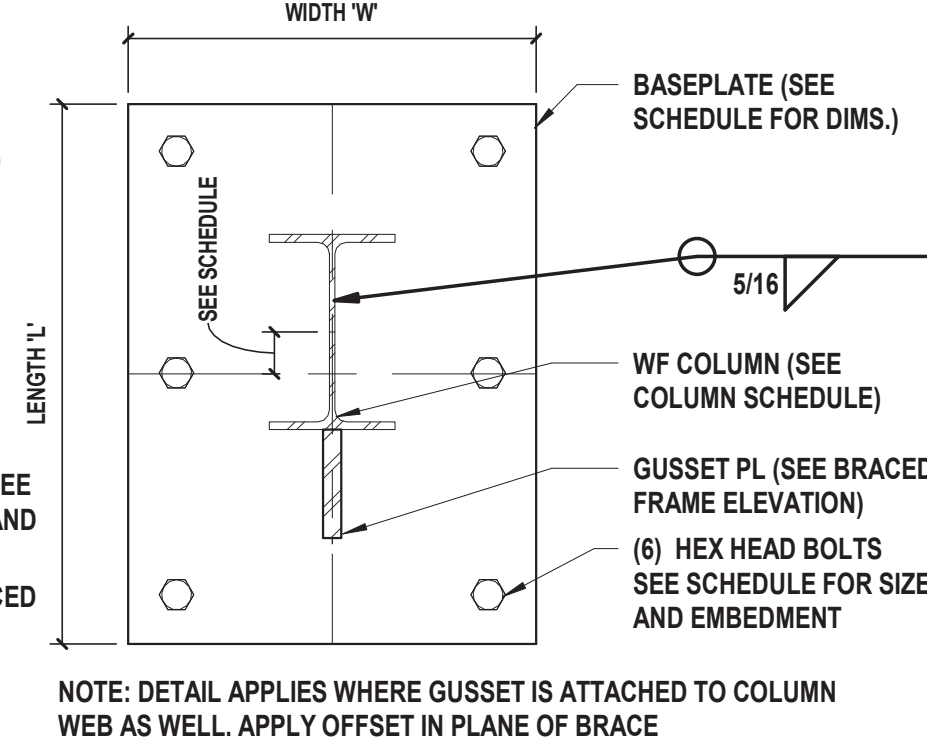
- NOTES:
- LINTEL LENGTH SHALL BE M.O. + 1'-4" TO PROVIDE MIN. BEARING OF 8" ONTO SOLID MASONRY ON EACH SIDE.
 - ALL EXTERIOR LINTELS TO BE SHOP APPLIED HOT DIPPED GALVANIZED.
 - WELD VERTICAL REINFORCEMENT INTERRUPTED BY MASONRY OPENINGS TO TOP OF THE STEEL LINTELS, TYPICAL.
 - REFER TO ARCHITECTURAL FLOOR PLANS AND ELEVATIONS FOR LINTEL LOCATIONS.
 - VERTICAL LEGS OF DOUBLE ANGLES SHALL BE WELDED TOGETHER.



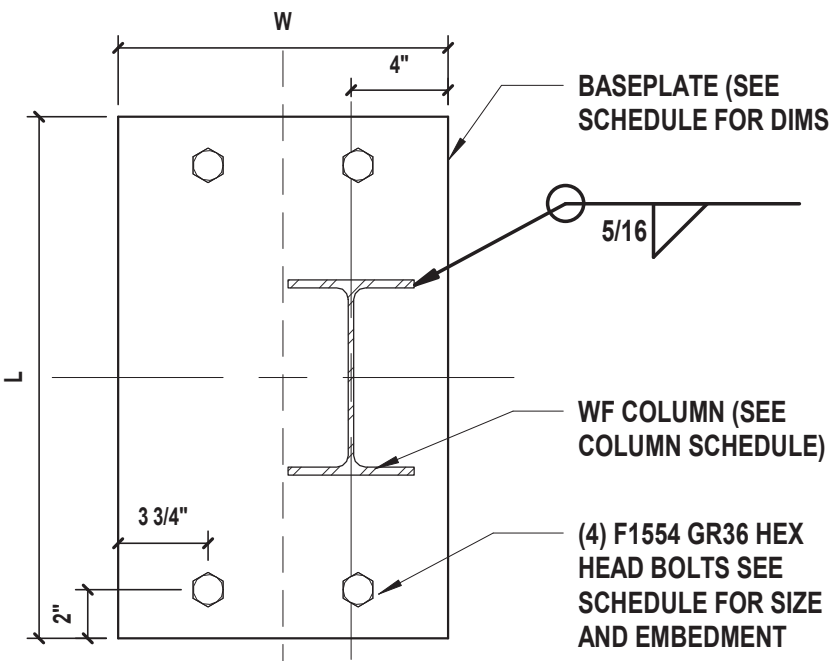
1 Baseplate BP1, BP9
SCALE: NTS



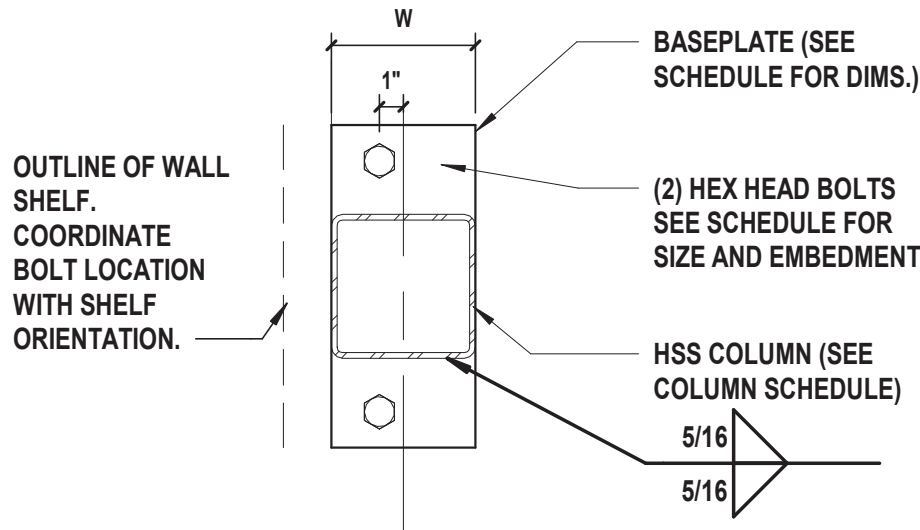
2 Baseplate BP2,BP3
SCALE: NTS



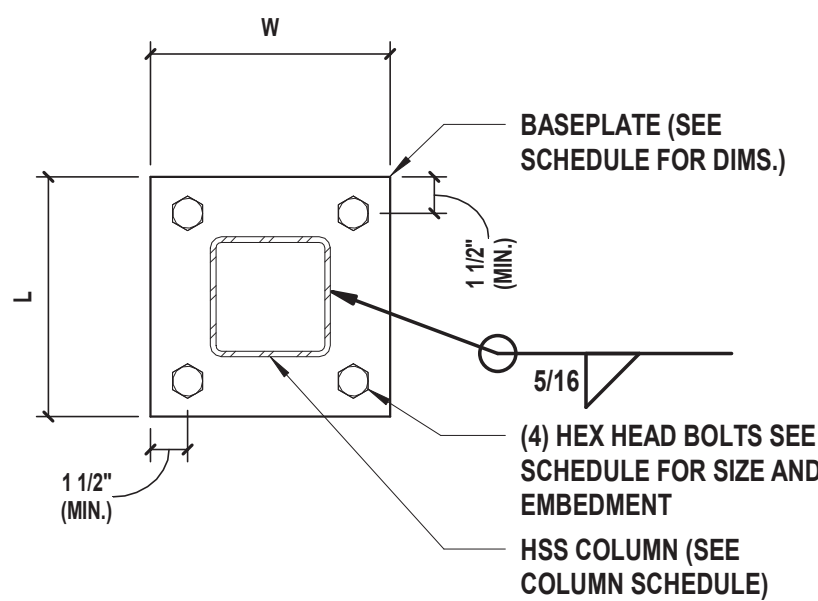
3 Baseplate BP4
SCALE: NTS



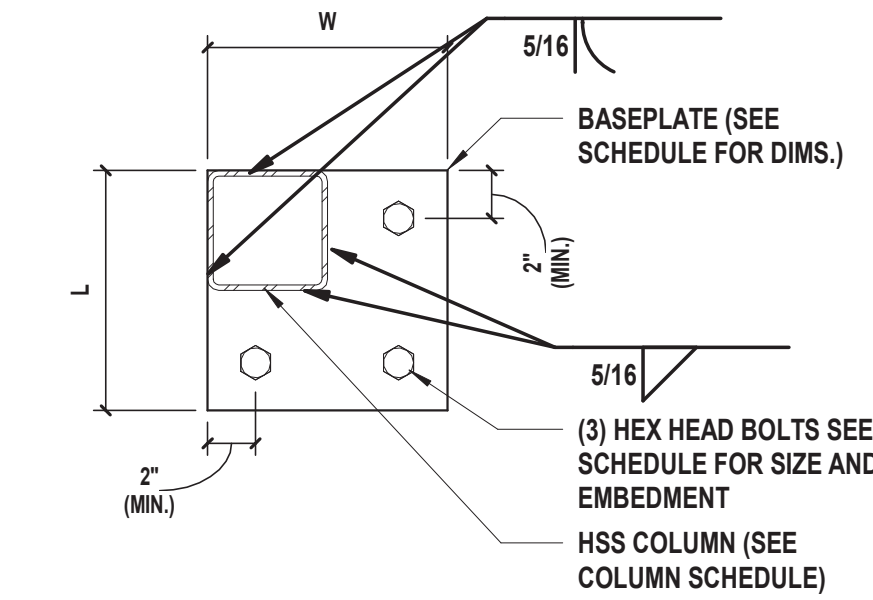
4 Baseplate BP5
SCALE: 1 1/2" = 1'-0"



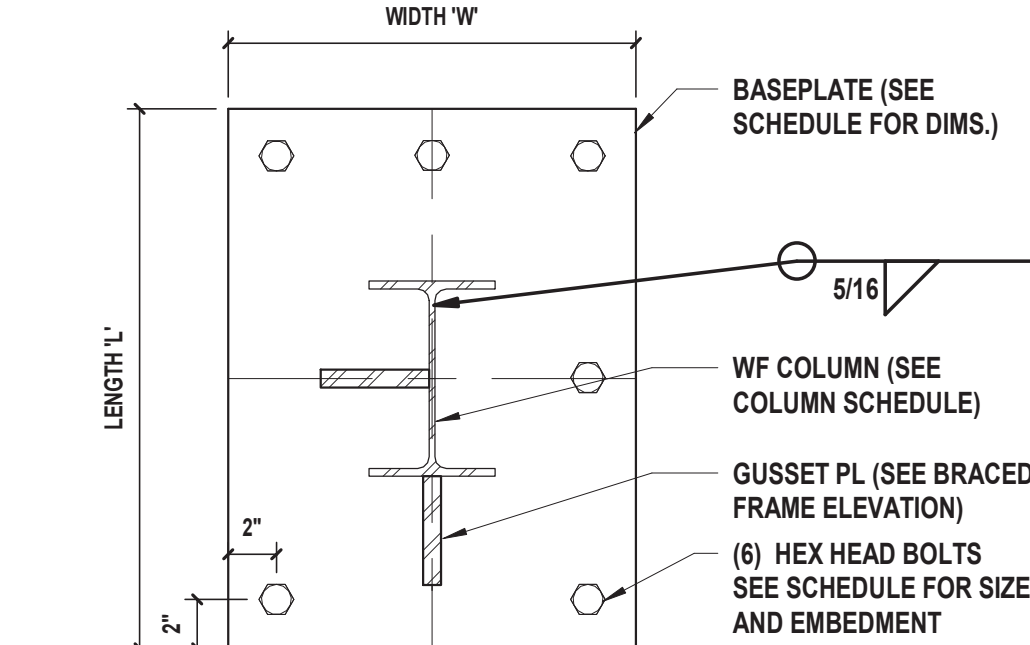
5 Baseplate BP6
SCALE: 1 1/2" = 1'-0"



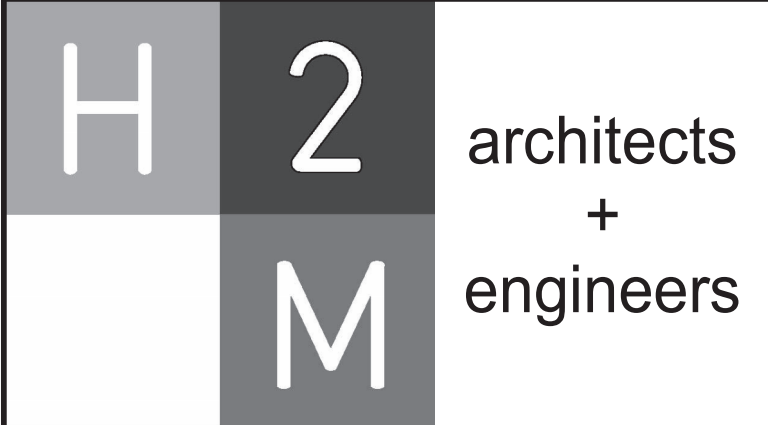
6 Baseplate BP7
SCALE: NTS



7 Baseplate BP8
SCALE: NTS



8 Baseplate BP10
SCALE: NTS



538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
631.756.8000 • www.h2m.com
NY Architecture & Landscape Architecture: No Certificate Required
NY Engineering Certificate of Authorization No.: 0018178

CONSULTANTS:		

MARK	DATE	DESCRIPTION



CLIENT

**THIELLS
ROSEVILLE FIRE
DISTRICT**

**NEW 26-100 FIRE
HEADQUARTERS**



**65 W RAMAPO ROAD
GARNERVILLE, NY 10923**

CONTRACT
CONTRACT G

STATUS
FINAL BID DOCUMENT

SHEET TITLE
BASEPLATE SCHEDULE AND DETAILS

DRAWING No.
S 601.00