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STATEMENT OF SPECIAL INSPECTIONS

REQUIRED SPECIAL INSPECTIONS AND TESTING NOTES:

1. STEEL CONSTRUCTION: THE SPECIAL INSPECTIONS AND NONDESTRUCTIVE TESTING OF STEEL CONSTRUCTION IN BUILDINGS, STRUCTURES, AND PORTIONS THEREOF SHALL BE AS FOLLOWS:

- STRUCTURAL STEEL- SPECIAL INSPECTIONS 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
- COLD-FORMED STEEL DECK- SPECIAL INSPECTIONS AND QUALIFICATION OF WELDING SPECIAL INSPECTORS FOR COLD-FORMED STEEL FLOOR AND ROOF DECK SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI QA/QC
- 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 TABLE 1705.2.3. OF THE 2020 NYS BUILDING CODE.
- COLD-FORMED STEEL TRUSSES SPANNING 60 FEET OR GREATER: WHERE A COLD-FORMED STEEL TRUSS CLEAR SPAN IS 60 FEET OR GREATER, THE 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.

2. WELDING OF REINFORCING BARS- SPECIAL INSPECTIONS OF WELDING AND QUALIFICATIONS OF SPECIAL INSPECTORS FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF AWS D1.4 FOR SPECIAL INSPECTION AND OF AWS D1.4 FOR SPECIAL INSPECTOR QUALIFICATION.

THE FOLLOWING NOTES AND TABLES SHALL CONSTITUTE THE STATEMENT OD SPECIAL INSPECTIONS REQUIRED IN ACCORDANCE WITH SECTION 1705 OF THE 2020 NYS BUILDING CODE. THE LISTED INSPECTION REQUIREMENTS REPRESENT THE MINIMUM ACCEPTABLE LEVEL OF INSPECTION, WHERE THE BUILDING CODE OR LOCAL JURISDICTION REQUIRES A GREATER LEVEL OF INSPECTION, THOSE REQUIREMENTS SHOULD TAKE PRECEDENCE.

INSPECTIONS AND TESTS (Continuous & Periodic is as defined by the BCNYS)	CONTINUOUS	PERIODIC	BCNYS REFERENCE	COMMENTARY/NOTES AND REFERENCE STANDARDS
A. Special Cases (Add requirements under Part S as necessary)			1705.1.1	Special Inspections and Tests shall be required for proposed work that is, in the opinion of the building official, unusual in its nature.

REQUIRED SPECIAL INSPECTIONS- STEEL CONSTRUCTION- BCNYS REF. 1705.2
STRUCTURAL STEEL - BCNYS REF. 1705.2.1

INSPECTIONS AND TESTS (Continuous & Periodic is as defined by the BCNYS)	CONTINUOUS	PERIODIC	BCNYS REFERENCE	COMMENTARY/NOTES AND REFERENCE STANDARDS
a. Inspection tasks prior to welding:			1705.2.1	AISC 360 Table N5.4-1
i. Welding procedure specifications (WPPS) available	X		1705.2.1	AISC 360 Table N5.4-1
ii. Manufacturer certifications for welding consumables available	X		1705.2.1	AISC 360 Table N5.4-1
iii. Material identification (type/grade)	X		1705.2.1	AISC 360 Table N5.4-1
iv. Welder identification system	X		1705.2.1	AISC 360 Table N5.4-1 The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type.
v. Fit up of groove welds (including joint geometry)	X		1705.2.1	AISC 360 Table N5.4-1
vi. Configuration and finish of access holes	X		1705.2.1	AISC 360 Table N5.4-1
vii. Fit-up of fillet welds	X		1705.2.1	AISC 360 Table N5.4-1
viii. Check Welding equipment	X		1705.2.1	AISC 360 Table N5.4-1
b. Inspection Tasks During Welding			1705.2.1	AISC 360 Table N5.4-2
i. Use of qualified welders.	X		1705.2.1	AISC 360 Table N5.4-2
ii. Control and Handling of welding consumables.	X		1705.2.1	AISC 360 Table N5.4-2
iii. No welding over cracked tack welds.	X		1705.2.1	AISC 360 Table N5.4-2
iv. Environmental Conditions	X		1705.2.1	AISC 360 Table N5.4-2
v. Verify WPS followed	X		1705.2.1	AISC 360 Table N5.4-2
vi. Verify Welding Techniques	X		1705.2.1	AISC 360 Table N5.4-2
c. Inspection Tasks after Welding			1705.2.1	AISC 360 Table N5.4-3
i. Welds cleaned	X		1705.2.1	AISC 360 Table N5.4-3
ii. Size, length, and location of welds	X		1705.2.1	AISC 360 Table N5.4-3
iii. Welds meet visual acceptance criteria	X		1705.2.1	AISC 360 Table N5.4-3
iv. Arc strikes	X		1705.2.1	AISC 360 Table N5.4-3
v. K-area	X		1705.2.1	AISC 360 Table N5.4-3 When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 in. (75mm) of the weld. AISC 360 Table C-N5.4.3
vi. Backing removed and weld tabs removed (if required)	X		1705.2.1	AISC 360 Table N5.4-3
vii. Repair activities	X		1705.2.1	AISC 360 Table N5.4-3
viii. Document acceptance or rejection of welded joint or member	X		1705.2.1	AISC 360 Table N5.4-3
d. Inspection Tasks Prior to Bolting			1705.2.1	AISC 360 Table N5.4-6
i. Manufacturer's certification available for fastener materials	X		1705.2.1	AISC 360 Table N5.4-6
ii. Fasteners marked in accordance with ASTM requirements	X		1705.2.1	AISC 360 Table N5.4-6

INSPECTIONS AND TESTS (Continuous & Periodic is as defined by the BCNYS)	CONTINUOUS	PERIODIC	BCNYS REFERENCE	COMMENTARY/NOTES AND REFERENCE STANDARDS
iii. Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)		X	1705.2.1	AISC 360 Table N5.4-6
iv. Proper bolting procedure selected for joint detail		X	1705.2.1	AISC 360 Table N5.6-1
v. Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements.		X	1705.2.1	AISC 360 Table N5.6-1
vi. Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used.		X	1705.2.1	AISC 360 Table N5.6-1
vii. Proper storage provided for bolts, nuts, washers and other fastener components.		X	1705.2.1	AISC 360 Table N5.6-1
c. Inspection Tasks During Bolting			1705.2.1	AISC 360 Table N5.6-2
i. Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required.		X	1705.2.1	AISC 360 Table N5.6-2
ii. Joint brought to the snug- tight condition prior to the pretensioning operation.		X	1705.2.1	AISC 360 Table N5.6-2
iii. Fastener component not turned by the wrench prevented from rotating.		X	1705.2.1	AISC 360 Table N5.6-2
iv. Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges.		X	1705.2.1	AISC 360 Table N5.6-2
f. Inspection Tasks After Bolting			1705.2.1	AISC 360 Table N5.6-3
i. Document acceptance or rejection of bolted connections.		X	1705.2.1	AISC 360 Table N5.6-3
g. Inspection of Steel Elements of Composite Construction Prior to Concrete Placement			1705.2.1	AISC 360 Table N6-1
i. Placement and installation of steel deck.		X	1705.2.1	AISC 360 Table N6-1
ii. Placement and installation of steel headed stud anchors.		X	1705.2.1	AISC 360 Table N6-1
iii. Document acceptance or rejection of steel elements		X	1705.2.1	AISC 360 Table N6-1

INSPECTIONS AND TESTS (Continuous & Periodic is as defined by the BCNYS)	CONTINUOUS	PERIODIC	BCNYS REFERENCE	COMMENTARY/NOTES AND REFERENCE STANDARDS
a. Inspection or Execution Tasks prior to Deck Placement			1705.2.2	SDI QA/QC Table 1.1
i. Verify compliance of materials (deck and all deck accessories) with construction documents, including profiles, material properties, and base metal thickness.		X	1705.2.2	SDI QA/QC Table 1.1
ii. Document acceptance or rejection of deck and deck accessories.		X	1705.2.2	SDI QA/QC Table 1.1
b. Inspection or Execution Tasks after Deck Placement				SDI QA/QC Table 1.2
i. Verify compliance of deck and all deck accessories installation with construction documents.		X	1705.2.2	SDI QA/QC Table 1.2
ii. Verify deck materials are represented by the mill certifications that comply with the construction documents.		X	1705.2.2	SDI QA/QC Table 1.2
iii. Document acceptance or rejection of installation of deck and deck accessories.		X	1705.2.2	SDI QA/QC Table 1.2 SDI QA/QC Table 1.3
c. Inspection or Execution Tasks Prior to Welding			1705.2.2	
i. Welding Procedure Specifications (WPS) available.		X	1705.2.2	SDI QA/QC Table 1.3
ii. Manufacturer certifications for welding consumables available		X	1705.2.2	SDI QA/QC Table 1.3
iii. Material identification (type/grade).		X	1705.2.2	SDI QA/QC Table 1.3
iv. Check welding equipment.		X	1705.2.2	SDI QA/QC Table 1.3
d. Inspection or Execution Tasks during Welding			1705.2.2	SDI QA/QC Table 1.4
i. Use of qualified welders.		X	1705.2.2	SDI QA/QC Table 1.4
ii. Control and handling of welding consumables.		X	1705.2.2	SDI QA/QC Table 1.4
iii. Environmental conditions (wind speed, moisture, temperature).		X	1705.2.2	SDI QA/QC Table 1.4

INSPECTIONS AND TESTS (Continuous & Periodic is as defined by the BCNYS)	CONTINUOUS	PERIODIC	BCNYS REFERENCE	COMMENTARY/NOTES AND REFERENCE STANDARDS
iv. Verify WPS followed.		X	1705.2.2	SDI QA/QC Table 1.4
e. Inspection or Execution Tasks after Welding			1705.2.2	SDI QA/QC Table 1.5
i. Verify size and location of welds, including support, sidelap, and perimeter welds.		X	1705.2.2	SDI QA/QC Table 1.5
ii. Welds meet visual acceptance criteria.		X	1705.2.2	SDI QA/QC Table 1.5
iii. Verify repair activities.		X	1705.2.2	SDI QA/QC Table 1.5
iv. Document acceptance or rejection of welds.		X	1705.2.2	SDI QA/QC Table 1.5
f. Inspection or Execution Tasks prior to Mechanical Fastening			1705.2.2	SDI QA/QC Table 1.6
i. Manufacturer installation instructions available for mechanical fasteners.		X	1705.2.2	SDI QA/QC Table 1.6
ii. Proper tools available for fastener installation.		X	1705.2.2	SDI QA/QC Table 1.6
iii. Proper storage for mechanical fasteners.		X	1705.2.2	SDI QA/QC Table 1.6
g. Inspection or Execution Tasks During Mechanical Fastening			1705.2.2	SDI QA/QC Table 1.7
i. Fasteners are positioned as required.		X	1705.2.2	SDI QA/QC Table 1.7
ii. Fasteners are installed in accordance with manufacturer's instructions.		X	1705.2.2	SDI QA/QC Table 1.7
h. Inspection or Execution Tasks after Mechanical Fastening			1705.2.2	SDI QA/QC Table 1.8
i. Check spacing, type, and installation of support fasteners.		X	1705.2.2	SDI QA/QC Table 1.8
ii. Check spacing, type, and installation of sidelap fasteners.		X	1705.2.2	SDI QA/QC Table 1.8
iii. Check spacing, type, and installation of perimeter fasteners.		X	1705.2.2	SDI QA/QC Table 1.8
iv. Verify repair activities.		X	1705.2.2	SDI QA/QC Table 1.8
v. Document acceptance or rejection of mechanical fasteners.		X	1705.2.2	SDI QA/QC Table 1.8

INSPECTIONS AND TESTS (Continuous & Periodic is as defined by the BCNYS)	CONTINUOUS	PERIODIC	BCNYS REFERENCE	COMMENTARY/NOTES AND REFERENCE STANDARDS
a. Installation of open-web steel joists and joist girders		X	Table 1705.2.3	SJI Specifications listed in Section 2207.1.
i. End connections – welded or bolted.		X	Table 1705.2.3	SJI Specifications listed in Section 2207.1.
ii. Bridging – Horizontal or diagonal.		X	Table 1705.2.3	SJI Specifications listed in Section 2207.1.
a. Standard bridging.		X	Table 1705.2.3	SJI Specifications listed in Section 2207.1.
b. Bridging that differs from the SJI specifications listed in Section 2207.1		X	Table 1705.2.3	
4. Cold-Formed Steel Trusses spanning 60 feet or Greater		X	1705.2.4	The Special Inspector shall verify that the temporary restraint/bracing and the permanent individual truss member restraint/bracing are installed in accordance with the approved truss submittal package.

INSPECTIONS AND TESTS (Continuous & Periodic is as defined by the BCNYS)	CONTINUOUS	PERIODIC	BCNYS REFERENCE	COMMENTARY/NOTES AND REFERENCE STANDARDS
1. Inspect reinforcement, including prestressing tendons, and verify placement.		X	Table 1705.3	ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3
2 Reinforcing Bar Welding:		X	Table 1705.3 1705.3.1	AWS D1.4, ACI 318: 26.6.4
3. Inspect anchors cast in concrete.		X	Table 1705.3	ACI 318: 17.8.2
4. Inspect anchors post- installed in hardened concrete members.		X	Table 1705.3	
a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.		X	Table 1705.3	ACI 318: 17.8.2.4
b. Mechanical anchors and adhesive anchors not defined in item 4a.		X	Table 1705.3	ACI 318: 17.8.2
5. Verify use of required design mix		X	Table 1705.3	ACI 318: Ch. 19, 26.4.3, 26.4.4
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of concrete.		X	Table 1705.3	ASTM C172, ASTM C31; ACI 318: 26.4, 26.12;
7. Inspect concrete and shotcrete placement for proper application techniques.		X	Table 1705.3	ACI 318: 26.5

INSPECTIONS AND TESTS (Continuous & Periodic is as defined by the BCNYS)	CONTINUOUS	PERIODIC	BCNYS REFERENCE	COMMENTARY/NOTES AND REFERENCE STANDARDS
8. Verify maintenance of specified curing temperature and techniques.		X	Table 1705.3	ACI 318: 26.5.3-26.5.5
9. Inspect Prestressed concrete for:			Table 1705.3	
a. Application of prestressing forces; and		X	Table 1705.3	ACI 318: 26.10
b. Grouting of bonded prestressing tendons		X	Table 1705.3	ACI 318: 26.10
10. Inspect erection of precast concrete members		X	Table 1705.3	ACI 318: Ch. 26.8
11. Verify in-situ concrete strength, prior to stressing tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.		X	Table 1705.3	ACI 318: 26.11.2
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.		X	Table 1705.3	

INSPECTIONS AND TESTS (Continuous & Periodic is as defined by the BCNYS)	CONTINUOUS	PERIODIC	BCNYS REFERENCE	COMMENTARY/NOTES AND REFERENCE STANDARDS
1. Verify compliance with the approved submittals.		X		ACI 530/ ASCE 5/TMS 402 and ACI 530.1/ ASCE 6/TMS 602 Ch. 3
2. Verify that the following are in compliance:				TMS 402/ACI530/ASCE6
2a. Proportions of site mixed mortar, grout and prestressing grout for bonded tendons.		X		TMS 402/ACI530/ASCE6
2b. Grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and anchorages.		X		TMS 402/ACI530/ASCE6
2c. Placement of masonry units and construction of mortar joints.		X		TMS 402/ACI530/ASCE6
2d. Placement of reinforcement, connectors, and prestressing tendons and anchorages.		X		TMS 402/ACI530/ASCE6
2e. Grout spacing prior to grouting.		X		TMS 402/ACI530/ASCE6
2f. Placement of grout and prestressing grout for bonded tendons.		X		TMS 402/ACI530/ASCE6
2g. Size and location of structural elements.		X		TMS 402/ACI530/ASCE6
2h. Type, size, and location of anchors including other details of anchorage of masonry to structural members, frames, or other construction.		X		TMS 402/ACI530/ASCE6
2i. Welding of reinforcement.		X		TMS 402/ACI530/ASCE6
2j. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).		X		TMS 402/ACI530/ASCE6
Minimum Tests				TMS 402/ACI530/ASCE6
1. Verification of f'm and f'ACI in accordance with Specification Article 1.4B prior to construction and for every 5,000sf during construction.				TMS 402/ACI530/ASCE6
2. Verification of proportions of materials in premixed or preblended mortar, prestressing grout, and grout other than self- consolidating grout, as delivered to the project site.				TMS 402/ACI530/ASCE6
3. Verification of Slump flow and Visual Stability Index (VSI) as delivered to the project site in accordance with Specification Article 1.5B.1.b.3 for self- consolidating grout.				TMS 402/ACI530/ASCE6

INSPECTIONS AND TESTS (Continuous & Periodic is as defined by the BCNYS)	CONTINUOUS	PERIODIC	BCNYS REFERENCE	COMMENTARY/NOTES AND REFERENCE STANDARDS
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.		X	1705.6	
2. Verify excavations are extended to proper depth and have reached proper material.		X	1705.6	
3. Perform classification and testing of compacted fill materials.		X	1705.6	
4. Verify use of proper materials, densities and lift thickness during placement and compaction of compacted fill.		X	1705.6	
5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.		X	1705.6	

FOUNDATION NOTES:

1. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR STRUCTURAL FILL AS DETAILED IN THE GEOTECHNICAL REPORT BY KEVIN L. PATTON, PE, DATED JANUARY 16, 2021, AND SHALL HAVE A MINIMUM COVER OF 48" FOR FROST PROTECTION AND REINFORCEMENT. ALL FOOTINGS SHALL BE CONFORM TO CORPS OF ENGINEERS CRD-C621, FACTORY PREMIX GROUT. SEE SPECIFICATIONS FOR TESTING REQUIREMENTS.
2. REINFORCING BARS SHALL BE GRADE 60 DEFORMED TYPE.
3. FOOTING DRAINS SHALL BE PROVIDED AROUND THE PERIMETER OF THE FOUNDATION AND SHALL BE BROUGHT TO DAYLIGHT OR TIED TO THE SITE DRAINAGE SYSTEM.
4. THE OWNER AND CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN HEREON.
5. THIS DESIGN IS BASED ON SOIL BEARING CAPACITY TAKEN FOR THE GEOTECHNICAL REPORT MENTIONED IN NOTE 1.
6. STEPPED FOOTINGS, IF REQUIRED, SHALL NOT CREATE A SLOPE GREATER THAN 2 HORIZONTAL TO 1 VERTICAL, WITH A MAXIMUM VERTICAL RISE INCREMENT OF 3'.
7. BEFORE ANY CONCRETE IS POURED IN ANY FORMS, INSPECTION IS REQUIRED BY THE BUILDING DEPT.
8. THE CONTRACTOR SHALL PROVIDE WATER PROOF CONTRACTION JOINTS IN THE FOUNDATION WALLS AS NEEDED TO MINIMIZE CRACKING WHICH MAY OCCUR DURING CURING OF THE CONCRETE.
9. CONCRETE COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
 - FOOTING POURED AGAINST EARTH :.....3"
 - SURFACE EXPOSED TO WEATHER OR EARTH.....1/2"
 - SURFACE NOT EXPOSED TO WEATHER OR EARTH.....3/4"
10. BACKFILL THE EXCAVATION OUTSIDE THE FOUNDATION WITH SOIL THAT IS FREE OF ORGANIC MATERIAL, CONSTRUCTION DEBRIS OR COBBLES. BOLLERS. BACKFILL SHALL BE PLACED IN LIFTS AND COMPACTED IN A MANNER THAT DOES NOT DAMAGE THE FOUNDATION.

CONCRETE:

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE OF THE AMERICAN CONCRETE INSTITUTE (ACI 318-14), "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK".
2. USE AIR-ENTRAINING ADMIXTURE IN ALL CONCRETE, PROVIDING NOT LESS THAN 4% NOR MORE THAN 8% ENTRAINED AIR FOR CONCRETE EXPOSED TO FREEZING AND THAWING, AND FROM 2% TO 4% FOR OTHER CONCRETE.
3. CONCRETE FOR SIDEWALKS, EXTERIOR PADS, STAIRS, ETC. SHALL BE 4500 PSI STONE CONCRETE ENTRAINED WITH 4% AIR MIN.
4. NO ADMIXTURES ARE PERMITTED IN CONCRETE IF NOT PART OF THE CONCRETE MIX DESIGN.
5. CONCRETE WHEN PLACED SHALL HAVE A TEMPERATURE BETWEEN 50 DEGREES F. AND 70 DEGREES F. TEMPERATURE OF CONCRETE DURING MIXING OR TRANSPORTATION SHALL NEVER BE LOWER THAN 40 DEGREES F. NOR HIGHER THAN 90 DEGREES F.
6. DURING COLD WEATHER (AMBIENT TEMPERATURE BELOW 40 DEGREES F.) BUILDER SHALL MAINTAIN CONCRETE AT A MINIMUM TEMPERATURE OF 30 DEGREES F. FOR 3 DAYS AND ABOVE 32 DEGREES F. FOR 14 DAYS FOLLOWING ITS PLACEMENT. FOLLOW ACI 308R RECOMMENDATIONS FOR COLD WEATHER CONCRETING.
7. DURING HOT WEATHER (AMBIENT TEMPERATURE ABOVE 80 DEGREES F.) BUILDER SHALL FOLLOW RECOMMENDATIONS FOR HOT WEATHER CONCRETING AS DESCRIBED IN ACI 308R AS REQUIRED TO MINIMIZE TEMPERATURE AND SHRINKAGE CRACKING OF CONCRETE.
8. CONCRETE SHALL BE CONVEYED AND DEPOSITED IN ACCORDANCE WITH RECOMMENDATIONS OF ACI 304.
9. REINFORCEMENT SHALL NOT BE DISPLACED OR CUT TO PROVIDE CLEARANCE FOR PENETRATIONS, INSERTS, OR EMBEDMENTS.
10. DESIGN, FABRICATION, INSTALLATION, AND REMOVAL OF CONCRETE FORMWORK IS SOLELY THE RESPONSIBILITY OF BUILDER.
11. CONCRETE, PLACEMENT: COMPLY WITH ACI 304, PLACING CONCRETE, AND ACI 304.2R PLACING CONCRETE BY PUMPING METHOD.
12. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. FOLLOW ACI AND CRSI STANDARDS FOR ACCESSORIES AND SUPPORTS. UNLESS OTHERWISE NOTED, LAP CONTINUOUS BARS, DOWELS, ETC. 24" AT SPLICES.
13. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM ULTIMATE COMPRESSIVE STRENGTHS AT THE END OF 28 DAYS:
 - SLABS ON GRADE: 4,500 PSI 3" SLUMP
 - FOOTINGS: 4,000 PSI 5" SLUMP
 - FOUNDATIONS: 4,000 PSI 4" SLUMP
 - MASONRY MORTAR: 3,000 PSI TYPE "M"

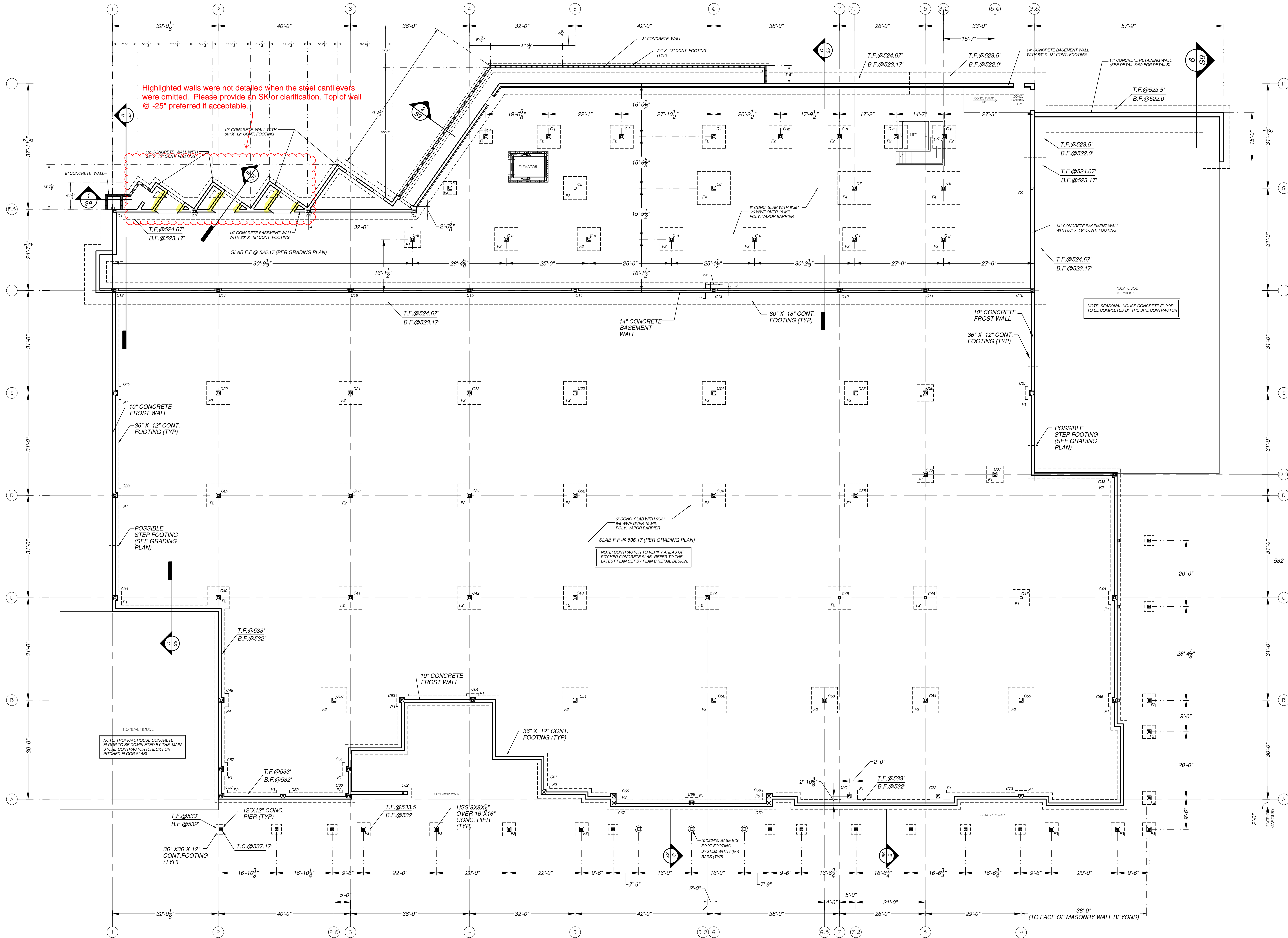
COLD-FORMED METAL FRAMING NOTES

1. MINIMUM MEMBER MATERIAL THICKNESS IS 16 GAUGE UNLESS NOTED OTHERWISE.
2. CUT FRAMING COMPONENTS SQUARELY OR ON AN ANGLE AS REQUIRED TO FIT TIGHTLY WITH FULL BEARING AGAINST ABUTTING MEMBERS. TEMPORARILY BRACE MEMBERS AS REQUIRED PRIOR TO FINAL FASTENING.
3. FIELD CUTTING OF MEMBERS SHALL BE PERFORMED BY SHEARING OR SAWING. TORCH CUTTING IS NOT ACCEPTABLE.
4. SPLICES ARE NOT PERMITTED IN STUDS, JOISTS, OR OTHER LOAD-CARRYING MEMBERS UNLESS CALCULATIONS AND DETAILS HAVE BEEN SUBMITTED TO ENGINEER FOR REVIEW AND ACCEPTED.
5. WHEN COLD-FORMED STUDS ARE TO BE USED FOR TRUSS, RAFTER, OR HEADER APPLICATIONS, STUDS SHALL BE UN-PUNCHED THROUGH THE WEB. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SPECIFY UN-PUNCHED STUDS WHEN ORDERING MATERIALS.
6. TRUSSES/RAFTERS SHALL BEAR DIRECTLY ABOVE STUDS IN LOAD BEARING WALLS. PROVIDE ADDITIONAL STUDS AS REQUIRED FOR ALIGNMENT WHERE TRUSS SPACING AND STUD SPACING ARE DIFFERENT.
7. FIELD-INSTALLED HOLES ARE NOT PERMITTED IN MEMBERS UNLESS INDICATED IN DRAWINGS.
8. DO NOT SCREW OR WELD STUDS TO VERTICAL DEFLECTION TRACKS. DO NOT CONNECT SHEATHING TO VERTICAL DEFLECTION TRACKS. PROVIDE GAP IN SHEATHING TO ACCOMMODATE VERTICAL DEFLECTION.
9. ABUTTING TRUSS MEMBERS SHALL BE SPLICED TOGETHER USING A TYPICAL STUD/JOIST SCREWED TO THE TRACK ON BOTH SIDES OF JOINT. BUTT-WELDING IS ALSO ACCEPTABLE.
10. FOR LOAD BEARING CONSTRUCTION, THE CONTRACTOR SHALL ENSURE THAT ADEQUATE BRACING IS IN PLACE UNTIL SHEATHING IS ATTACHED TO BOTH STUD FLANGES. DO NOT OVERLOAD STUDS DURING CONSTRUCTION.
11. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ERECTION BRACING.
12. MINIMUM SCREW SPACING AND EDGE DISTANCE IS 3/4 INCH UNLESS NOTED OTHERWISE.
13. THE FOLLOWING SHALL BE USED FOR POWDER-ACTUATED FASTENERS IN STEEL UNLESS NOTED OTHERWISE:
 - MINIMUM EDGE DISTANCE = 3/4 INCH
 - MINIMUM FASTENER SPACING = 1 INCH
14. THE FOLLOWING SHALL BE USED FOR POWDER-ACTUATED FASTENERS IN CONCRETE UNLESS NOTED OTHERWISE:
 - MINIMUM EDGE DISTANCE = 3 INCHES
 - MINIMUM FASTENER SPACING = 4 INCHES
15. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS D13 "STRUCTURAL WELDING CODE - SHEET METAL".
16. MINIMUM WELD THROAT THICKNESS EQUALS THE BASE METAL THICKNESS OF THE THINNEST CONNECTED MATERIAL UNLESS NOTED OTHERWISE.
17. TOUCH-UP WELDS WITH GALVANIZING REPAIR PAINT.

STRUCTURAL STEEL NOTES:

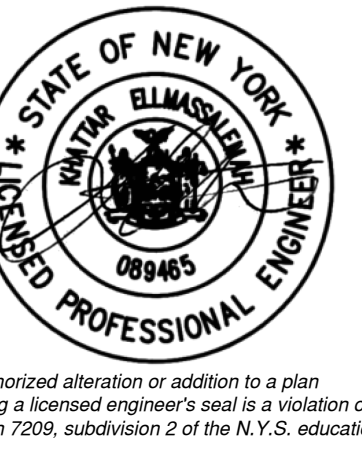
1. STEEL DETAILING, FABRICATION, AND ERECTION SHALL

FILESERVER\05\2020\02_156-ADAMS CIVIL_3D PROJECT\020156-ADAMS STRUCTURE.DWG



Consultant:

PRAETORIUS AND CONRAD, P.C.
PROFESSIONAL ENGINEERING AND LAND SURVEYING



Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2 of the N.Y.S. education law.



Prepared For:

Revisions:			
Revision Number	Date	Drawn By	Checked By
R-1	10-25-2021	KIE	KIE

Revisions per 10/25/21 MHE review letter

P&C Project No.: D20-136
Drawn By: KIE
Check By: KIE
Scale: 3/32" = 1'
Date: 06 August 2021

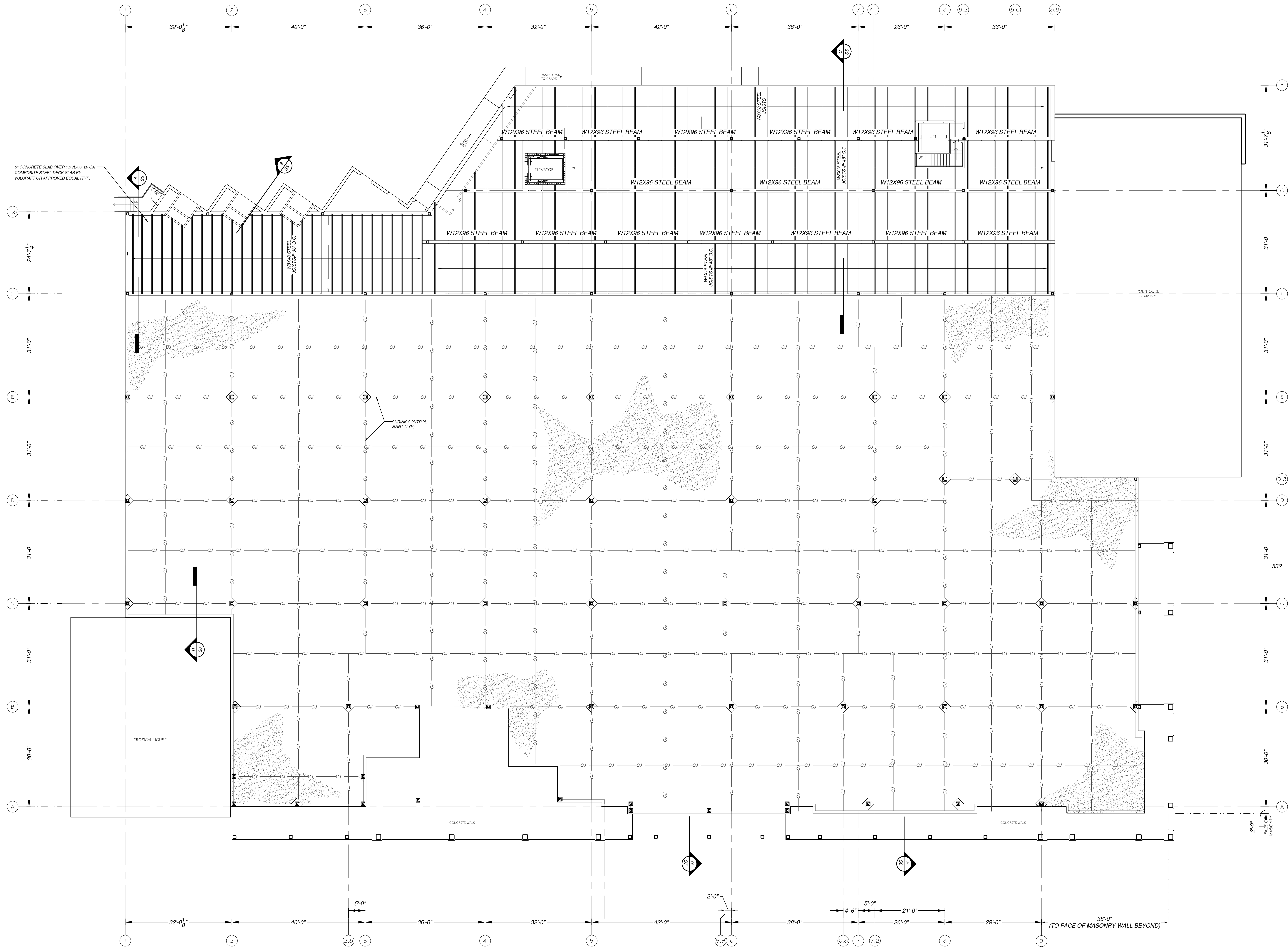
S1
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FOUNDATION PLAN

Consultant M/V:

P.O. BOX 360
74 MAIN STREET
SAUGERTIES, N.Y. 12177
TEL: (845) 246-3671
FAX: (845) 246-3691

FILESERVER\0620\2020\18-ADAMS\CIVIL_3D PROJECTS\02018-ADAMS\STRUCTURE.DWG



Consultant:

Consultant FAVC:

PRAETORIUS AND CONRAD, P.C.

PROFESSIONAL ENGINEERING AND LAND SURVEYING

P.O. BOX 360

74 MAIN STREET

Saugerties, N.Y. 12477

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SEAL

STATE OF NEW YORK

ADAMS

FAIRACRE FARMS

NYS ROUTE 211, MIDDLETOWN, NY

Town of Wallkill, Orange County, New York

Prepared For:

Title:

Revisions:

Revision Number	Date	Drawn By	Checked By
R-1	10-25-2021	KIE	KIE
Revisions per 10/5/21 MHE review letter			

P&C Project No.:

D20-136

Drawn By:

KIE

Check By:

KIE

Scale:

3/32" = 1'

Date:

06 August 2021

S2

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1. THE DESIGN, FABRICATION AND ERECTION OF THE STEEL ROOF DECK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SDI SPECIFICATION AND THE LATEST EDITION OF THE SDI DRAWING AND THE SDI DATHUMED DESIGN MANUAL.
2. MINIMUM END LAP SHALL BE 3" .
3. WALL PANEL ERECTION BRACES SHALL NOT BE OBTAINED UNTIL STEEL DECK IS COMPLETELY IN PLACE.
4. ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS IN ACCORDANCE WITH THE LATEST EDITION OF THE SDI SPECIFICATION AND THE LATEST EDITION OF THE SDI DRAWING AND ITS COMMENTARY. WELDING ELECTRODES SHALL BE E6022, HOBART #1139 .5032" DIA .
5. ROOF DECK SHALL RECEIVE ONE COAT OF MANUFACTURER'S STANDARD PRIMER PRIOR TO ROOFING .
6. ROOF DECK SHALL BE CLEANED UNDER A MINIMUM OF THREE SPANS .
7. ROOF DECK BUNDLES SHALL BE PLACED ON ROOF JOISTS WITH EXTREME CAUTION, FOLLOWING THE JOIST MANUFACTURER'S RECOMMENDATIONS FOR PROPER LIFTING AND PLACING .
8. DECKING ON DECK ACCESSORY BUNDLES SHALL NOT EXCEED 4.000 LBS.

ROOF JOISTS ———
SUBJECT TO FUTURE
MODIFICATIONS
BASED ON ACTUAL
AIR HANDLER UNITS
HANGING DETAILS.

10 X 8 X 16 CONCRETE BLOCK BLOCK WALL
GROUTED SOLID WITH #5 STEEL BAR @ 24" O.C.
DUR-O-WALL HORIZONTAL JOINT
REINFORCEMENT SHALL BE PROVIDED AT
EVERY EVERY OTHER COURSE, AND BOND
COURSE AT MID WALL HEIGHT (TYP).

- UPLIFT BRIDGING PLACED AT FIRST
BOTTOM CHORD PANEL POINT AT
BOTH ENDS IF JOISTS AND WHERE
NOTED (TYP)

— WELDED DIAGONAL BRIDGING (TYP)

ROOF JOISTS SUBJECT TO FUTURE
MODIFICATIONS BASED ON ACTUAL AIR
HANDLER UNITS HANGING DETAILS.

JOIST TOP AND BOTTOM CHORD
BRIDGING BY STEEL JOIST
MANUFACTURER (TYP)

8X8X $\frac{1}{2}$ " STEEL
BOLTED TO CM
WALL (TYP).

—1 1/2", 22GA. MTL. ROOF DECK (TYP)

600S200-43 COLD FORMED
STEEL ROOF RAFTERS
SPACED @ 24" O.C.

600S200-43 COLD FORMED
STEEL ROOF RAFTER
SPACED @ 24" O.C.

STEEL ROOF RAFTERS
SPACED @ 24" O.C.

38'-0"
(TO FACE OF MASONRY WALL BEYOND)

Revisions:

Revision Number:	Date:	Drawn By:	Checked By:
R-1	10-25-2021	KIE	KIE

Revisions per 10/5/21 MHE review letter

P&C Project No.:	D20-136
Drawn By:	KIE
Check By:	KIE
Scale:	3/32" = 1'
Date:	06 August 2021

S3
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Consultant HAVC:



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PROFESSIONAL ENGINEERING AND LAND SURVEYING

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FAX: (845) 246-3691



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Prepared For:

FIG.
ROOF DRAINAGE PLAN

Revisions:

Revision Number:	Date:	Drawn By:	Checked By:
R-1	10-25-2021	KIE	KIE

Revisions per 10/5/21 MHE review letter

D&C Printout No. : D20 126

F&C FIDUCIARY NO..	D20-136
DEBIT: D...	KIF

Drawn By:	KIE
Checked By:	KIE

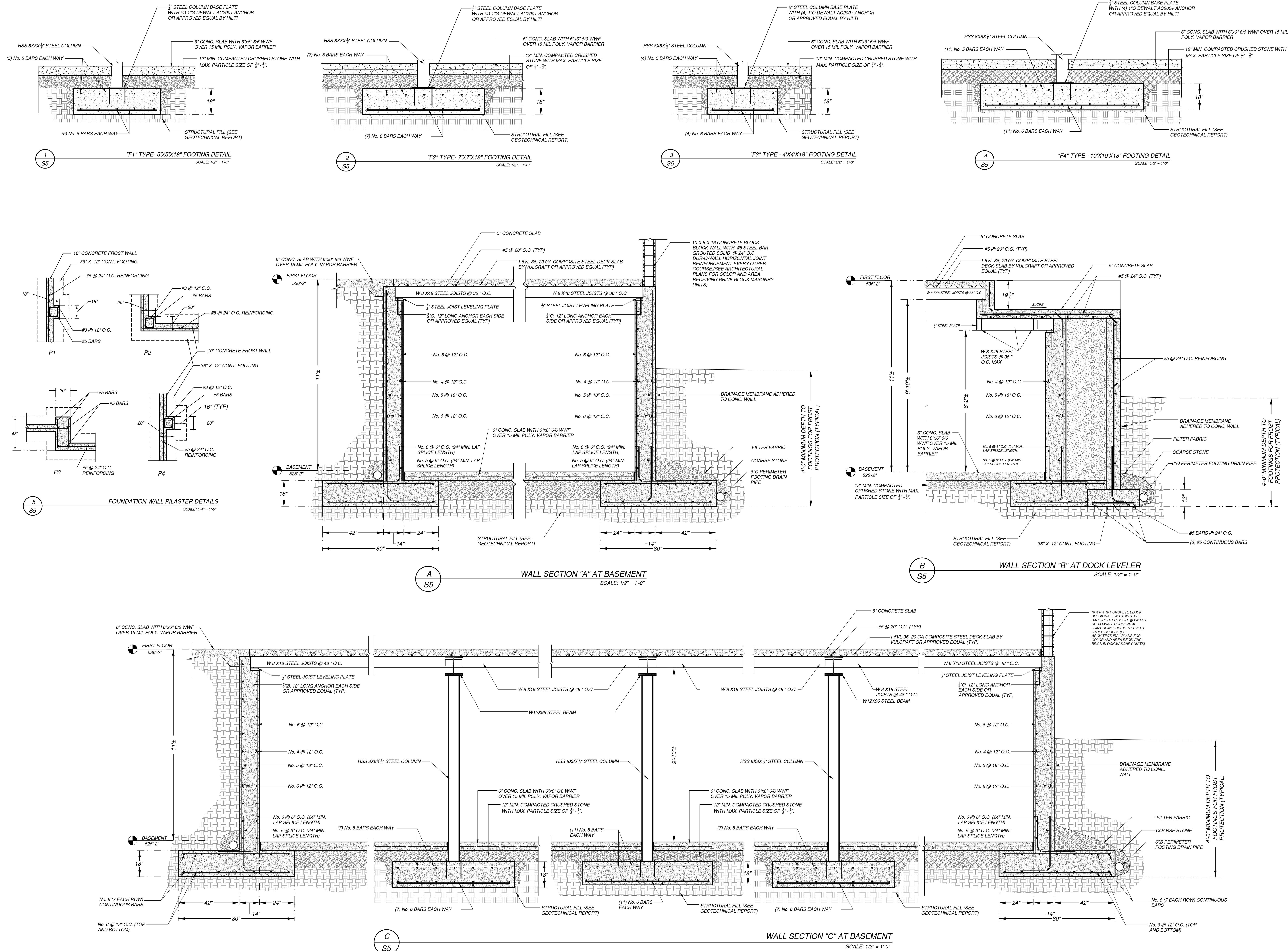
CHUCK By.	KIE
Case/No.	012211 41

Date: 06 August 2021

S4

2221 PRAETORIUS AND CONRAD, P.G.

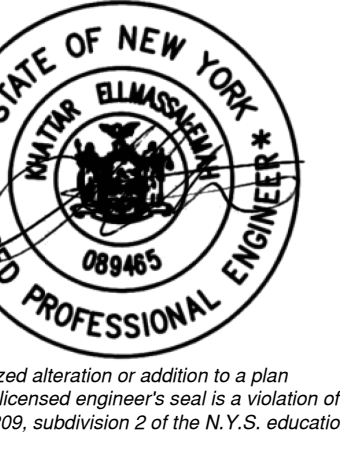
FILES/REVIEWS/2020/01-18-ADAMS-CIVIL-3D-PROJECTS/01-18-ADAMS-STRUCTURE/DWG



Consultant:

Consultant HAVC:

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Prepared For:

Revision Number	Date	Drawn By	Checked By
R-1	10-25-2021	KIE	KIE

Revisions per 10/25/21 MHE review letter

P&C Project No.:	D20-136
Drawn By:	KIE
Check By:	KIE
Scale:	AS SHOWN
Date:	06 August 2021

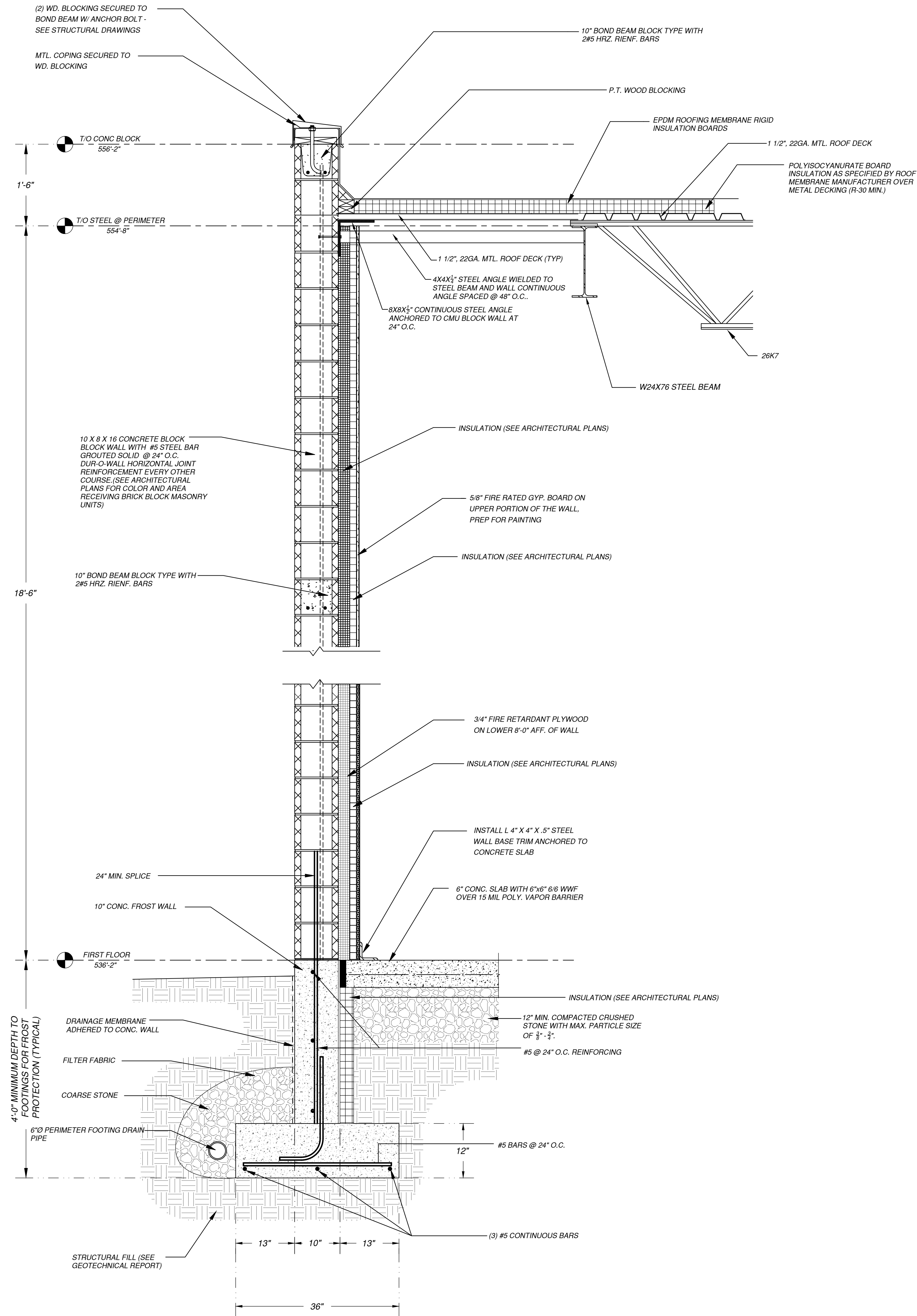
S5

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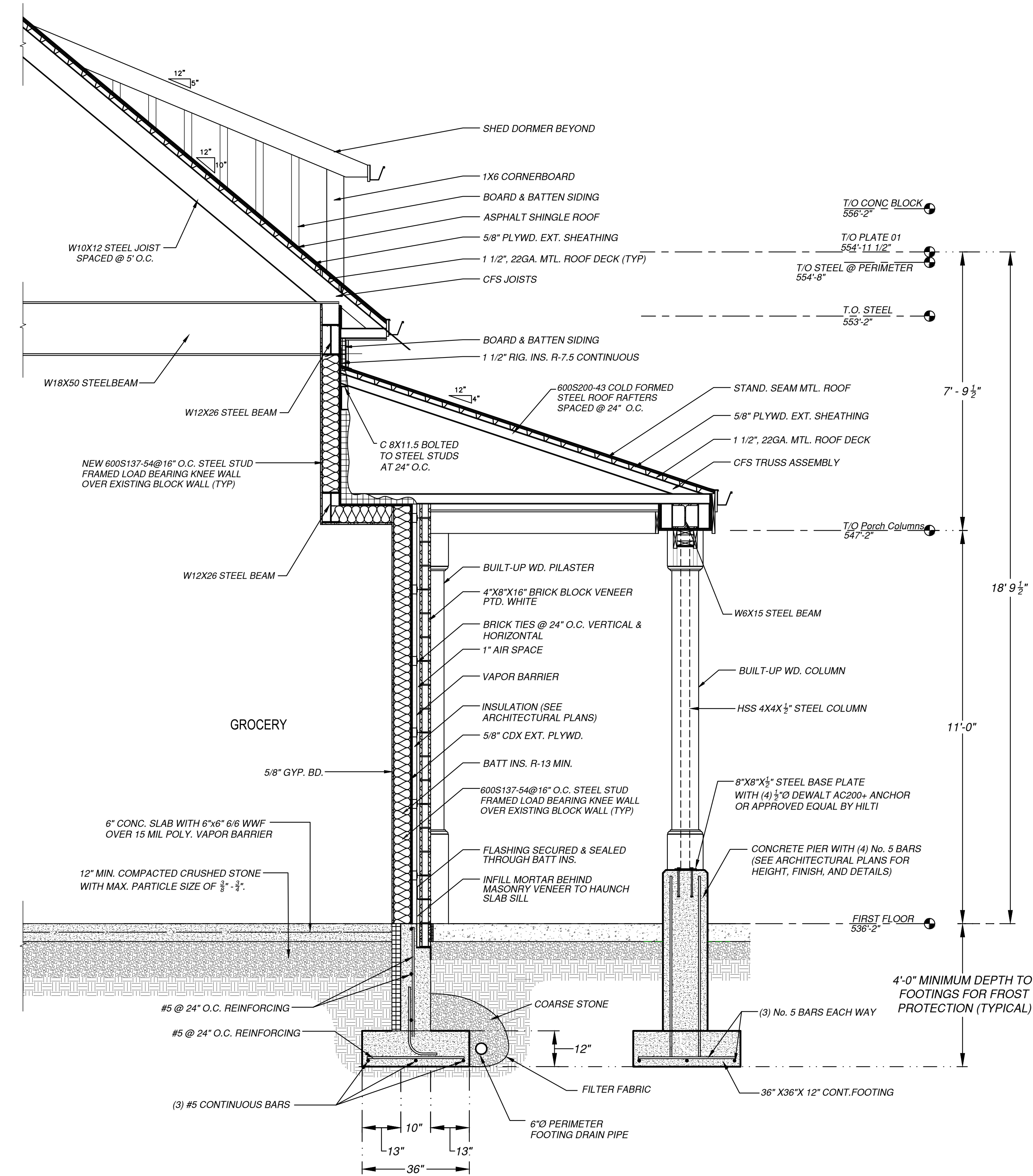
TEL: (845) 246-3671
FAX: (845) 246-3691

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74 MAIN STREET
SAUGERTIES, N.Y. 12477

SECTIONS & DETAILS


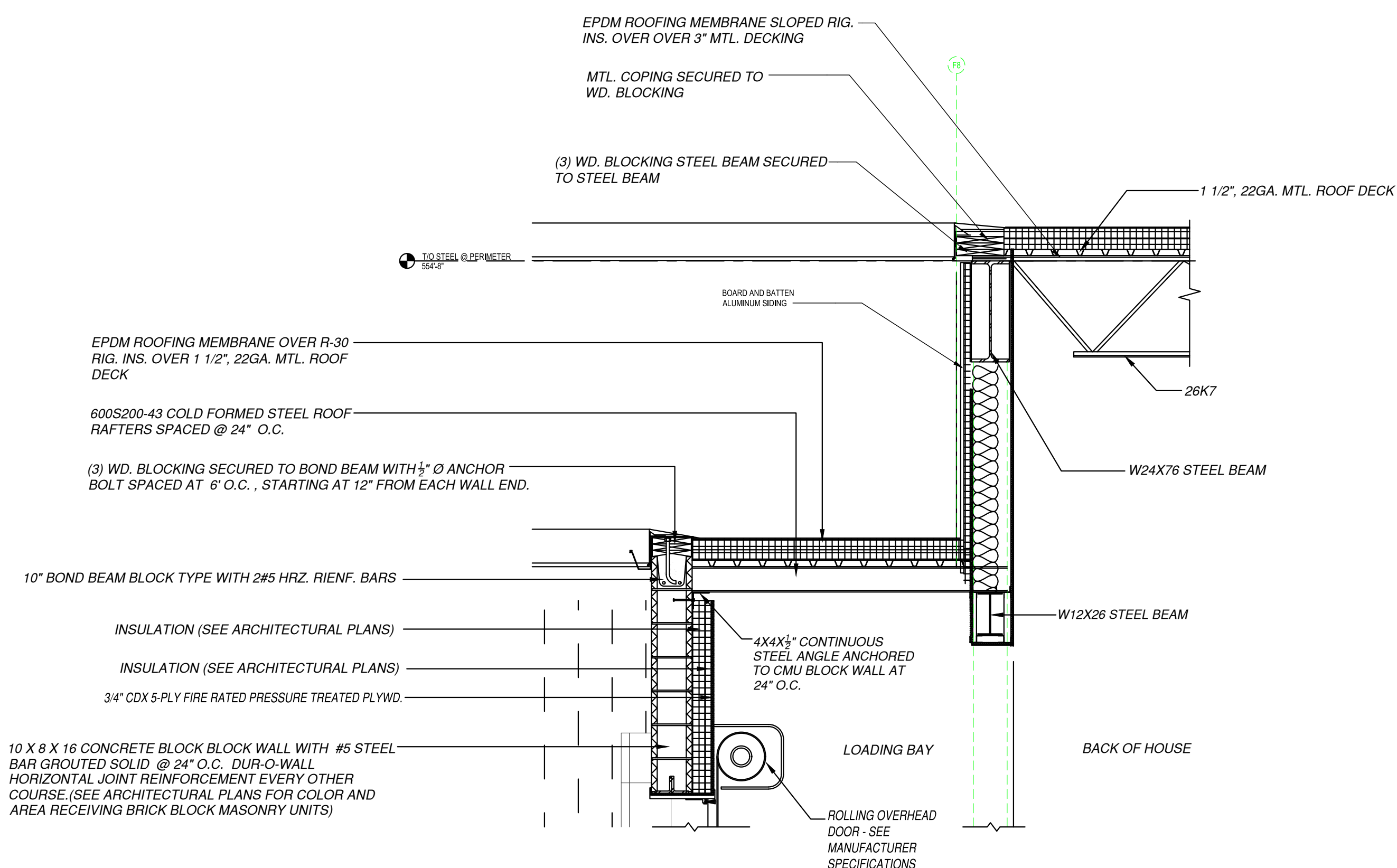


WALL SECTION
SCALE: 1" = 1'-0"



The logo consists of a circle divided horizontally by a line. The top half contains the letter 'E' and the bottom half contains the letters 'S6'.

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



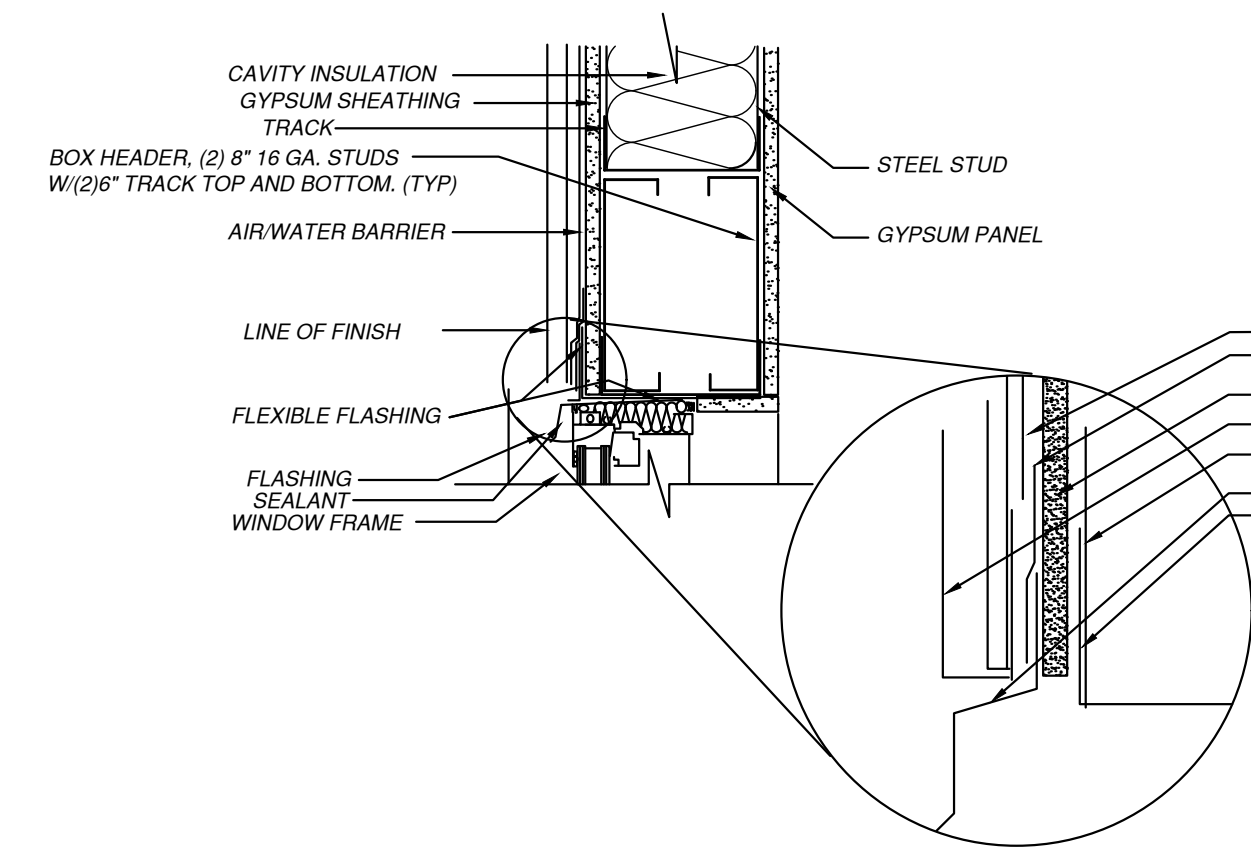
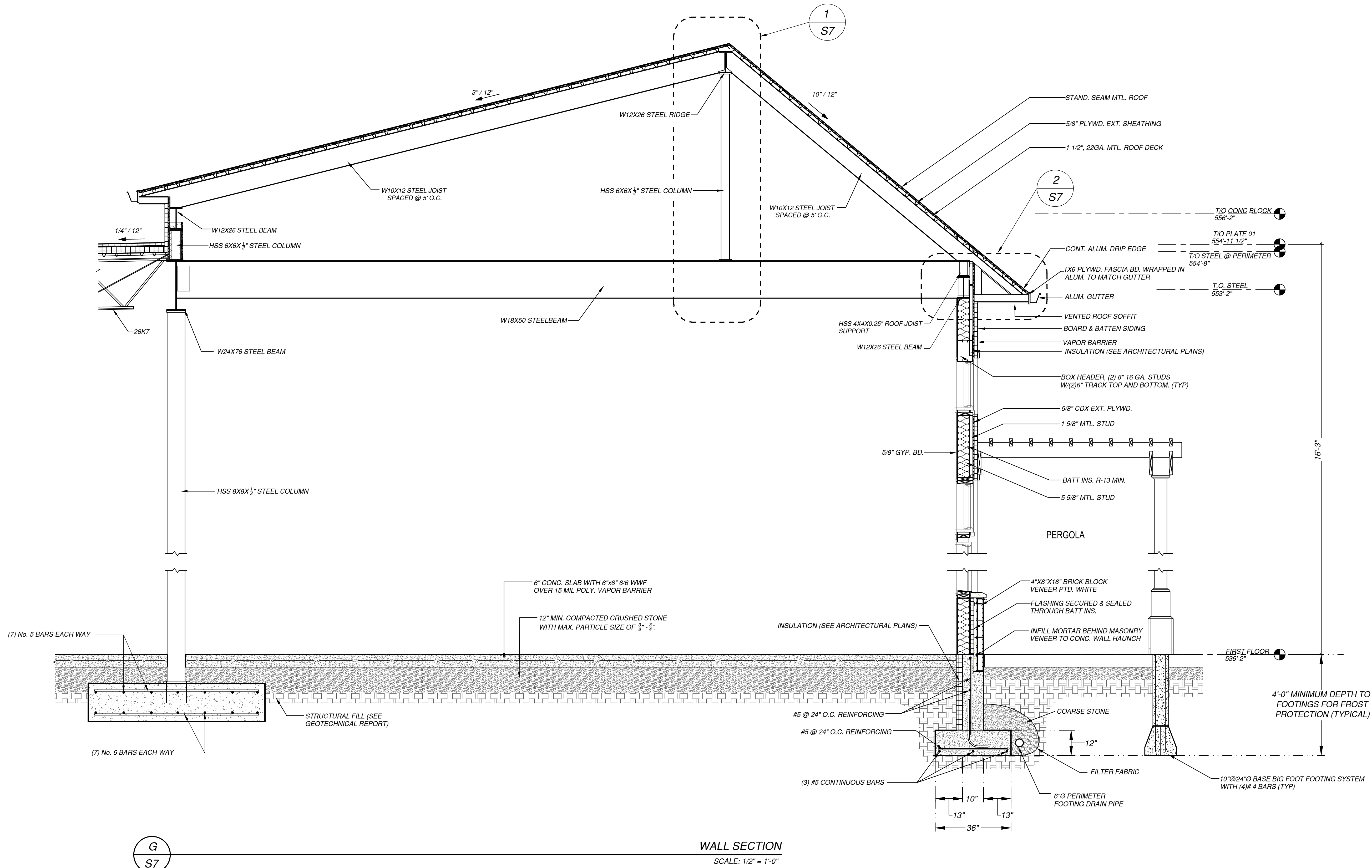
DOCK ROOF DETAIL

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

Consultant:

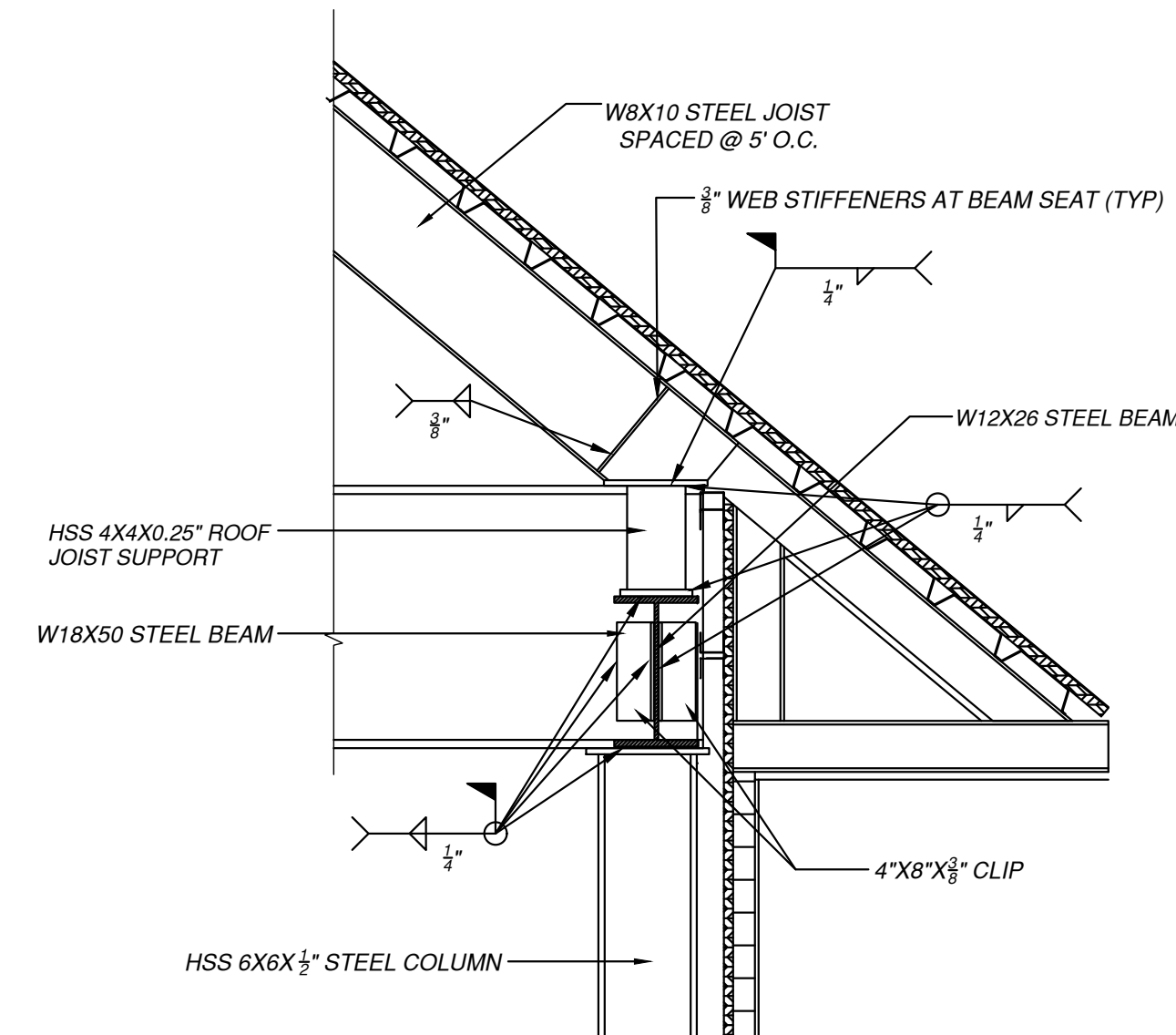
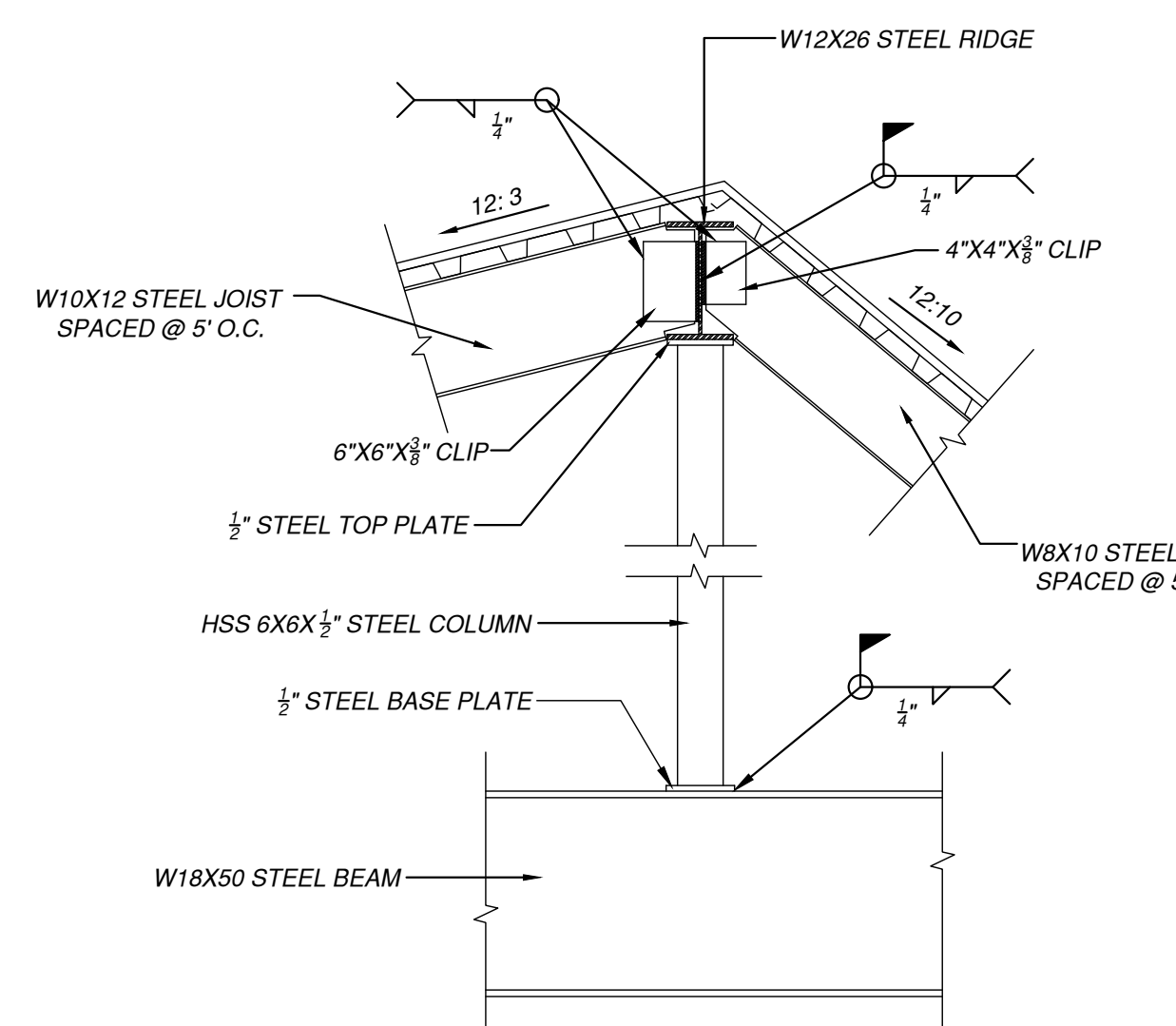
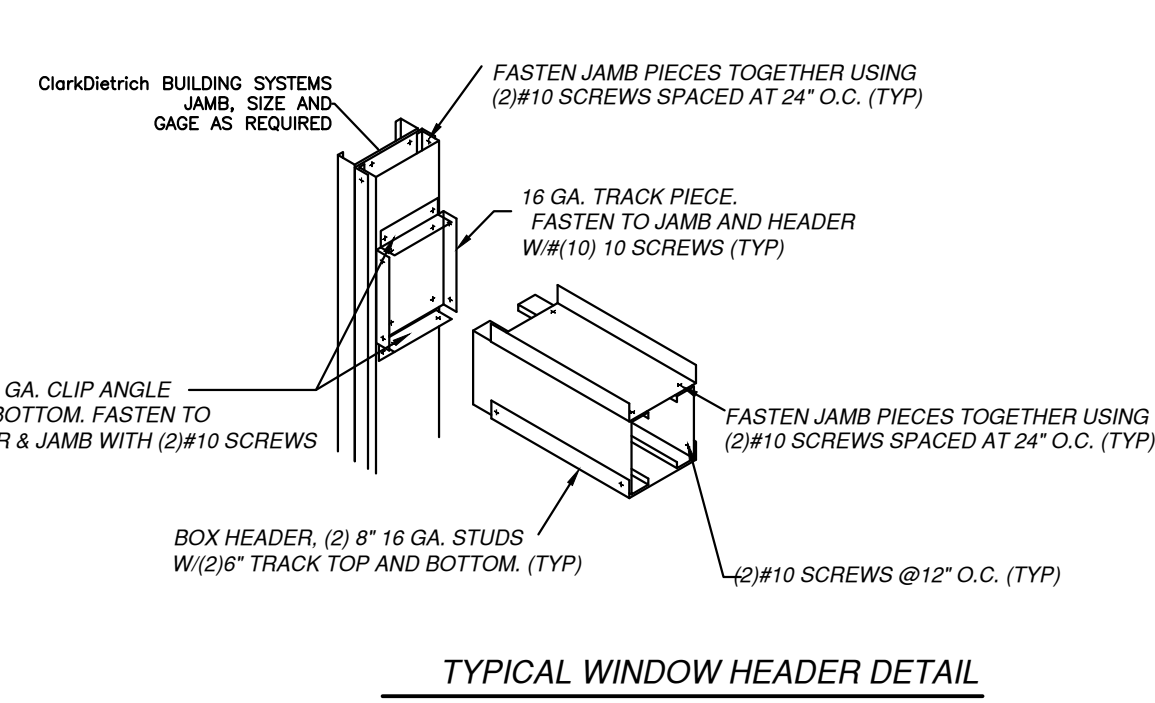
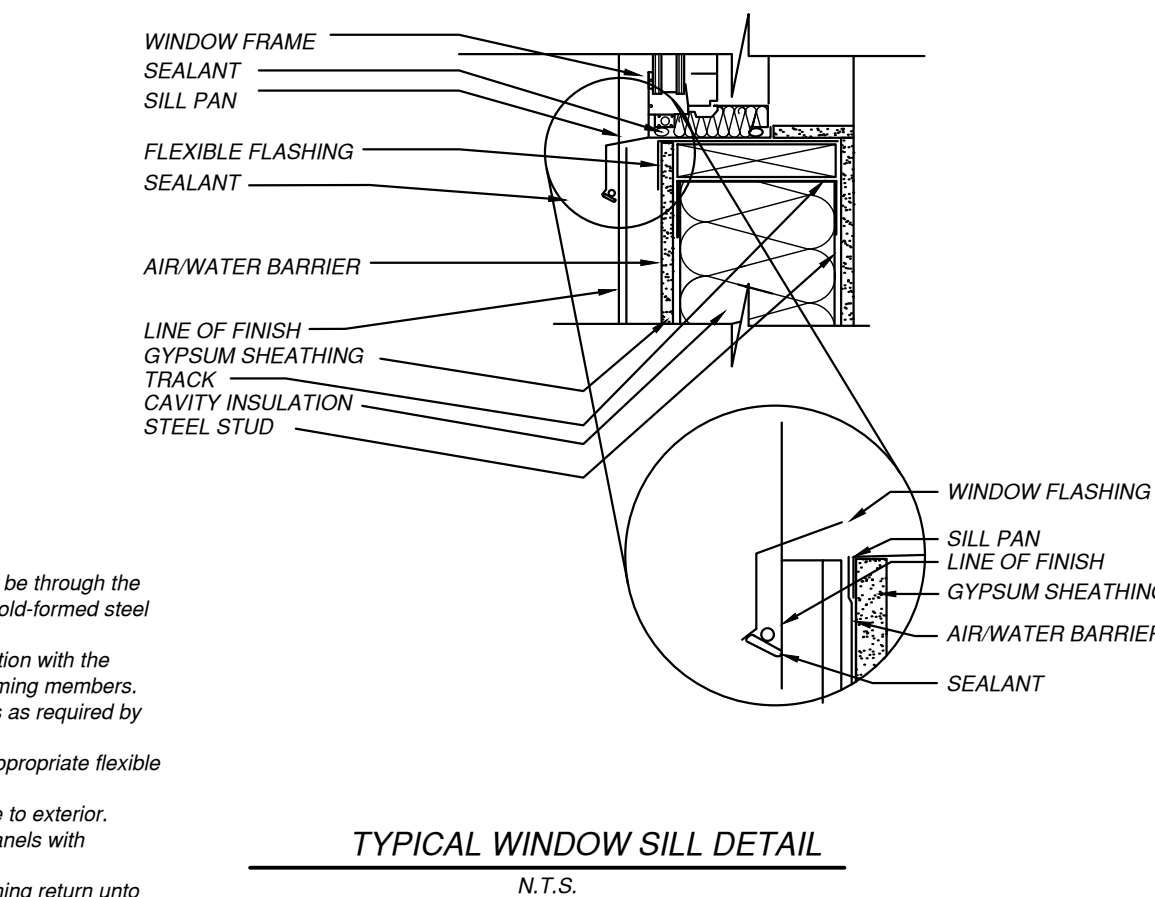
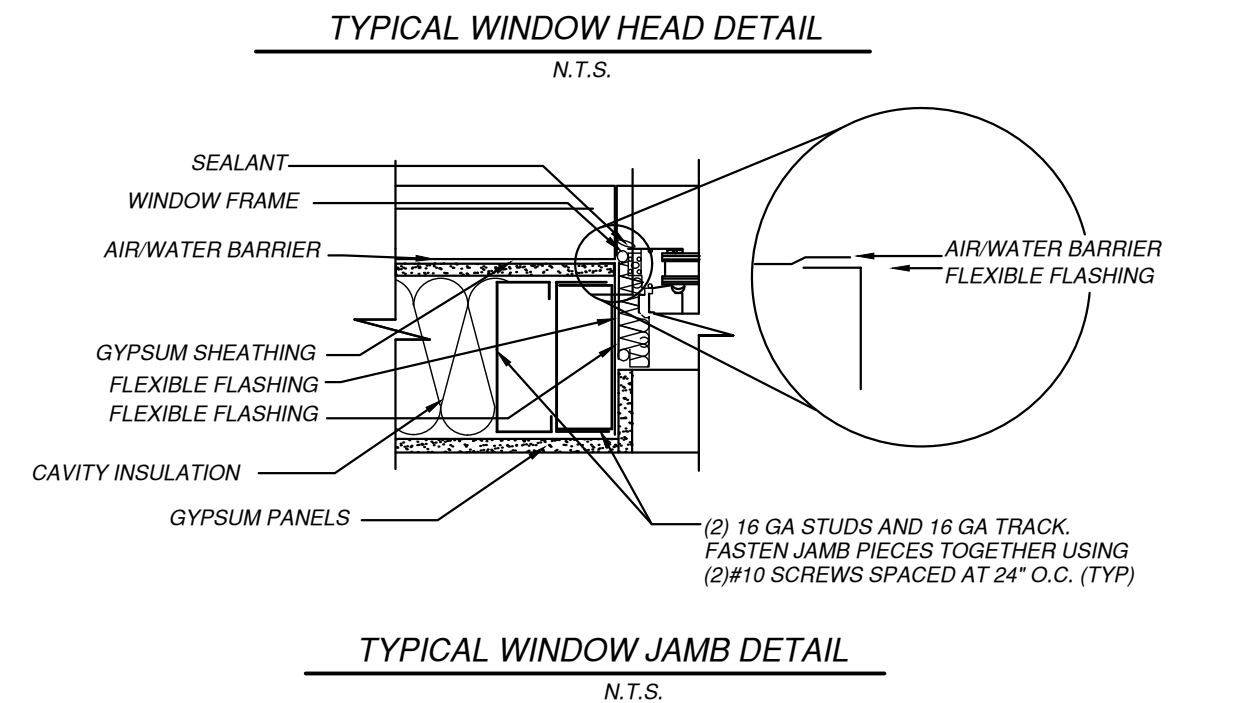
Consultant HAVC:

FILESERVER\JCS\2020\20-136-ADAMS\CIVIL_3D PROJECTS\20-136-ADAMS-STRUCTURE.DWG



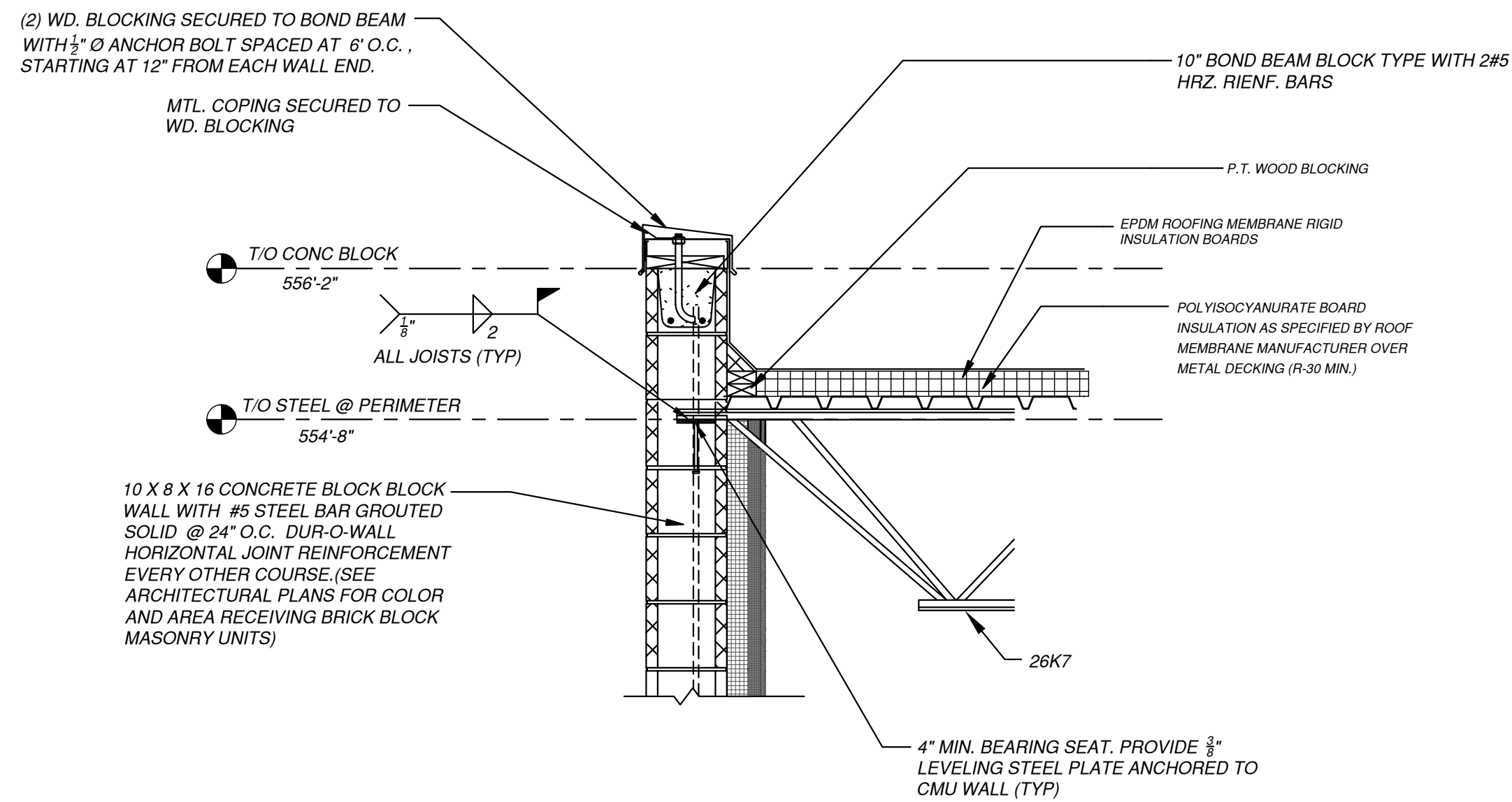
General Notes:

1. Fastening system of the finish must be through the continuous insulation and into the cold-formed steel framing.
2. If required, install continuous insulation with the fasteners into cold-formed steel framing members. Size, type, and spacing of fasteners as required by foam insulation manufacturer.
3. Wrap window rough opening with appropriate flexible flashing material.
4. Install sill pan with positive drainage to exterior.
5. Protect corner of interior gypsum panels with appropriate corner reinforcement.
6. Maintain a minimum 2" flexible flashing return onto each adjacent surface.

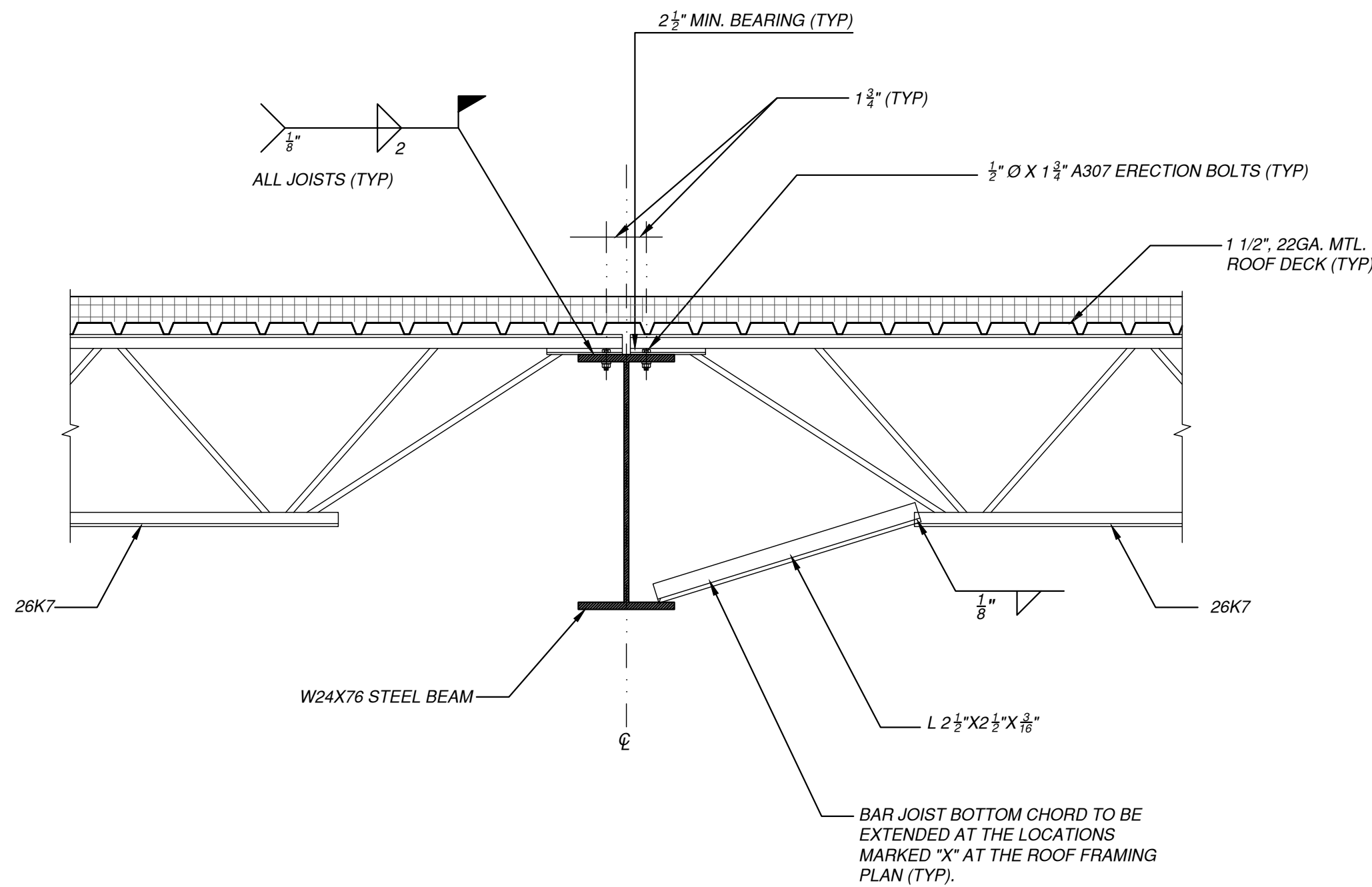


Consultant:		Consultant (AVC):	
PRAETORIUS AND CONRAD, P.C. PROFESSIONAL ENGINEERING AND LAND SURVEYING		P.O. BOX 360 74 MAIN STREET SAUGERTIES, N.Y. 12447	
TEL: (845) 246-3671 FAX: (845) 246-3691			
Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 2209, subdivision 2 of the N.Y.S. education law.			
ADAMS FAIRACRE FARMS 100 ROUTE 211, MIDDLETOWN, NY Town of Walker, Orange County, New York			
SECTIONS & DETAILS			
Revisions:			
Revision Number:	Date:	Drawn By:	Checked By:
R-1	10-25-2021	KIE	KIE
Revisions per 10/25/21 MHE review letter			
P&C Project No.: 020-136			
Drawn By: KIE			
Check By: KIE			
Scale: AS SHOWN			
Date: 06 August 2021			
S7			
PRAETORIUS AND CONRAD, P.C.			

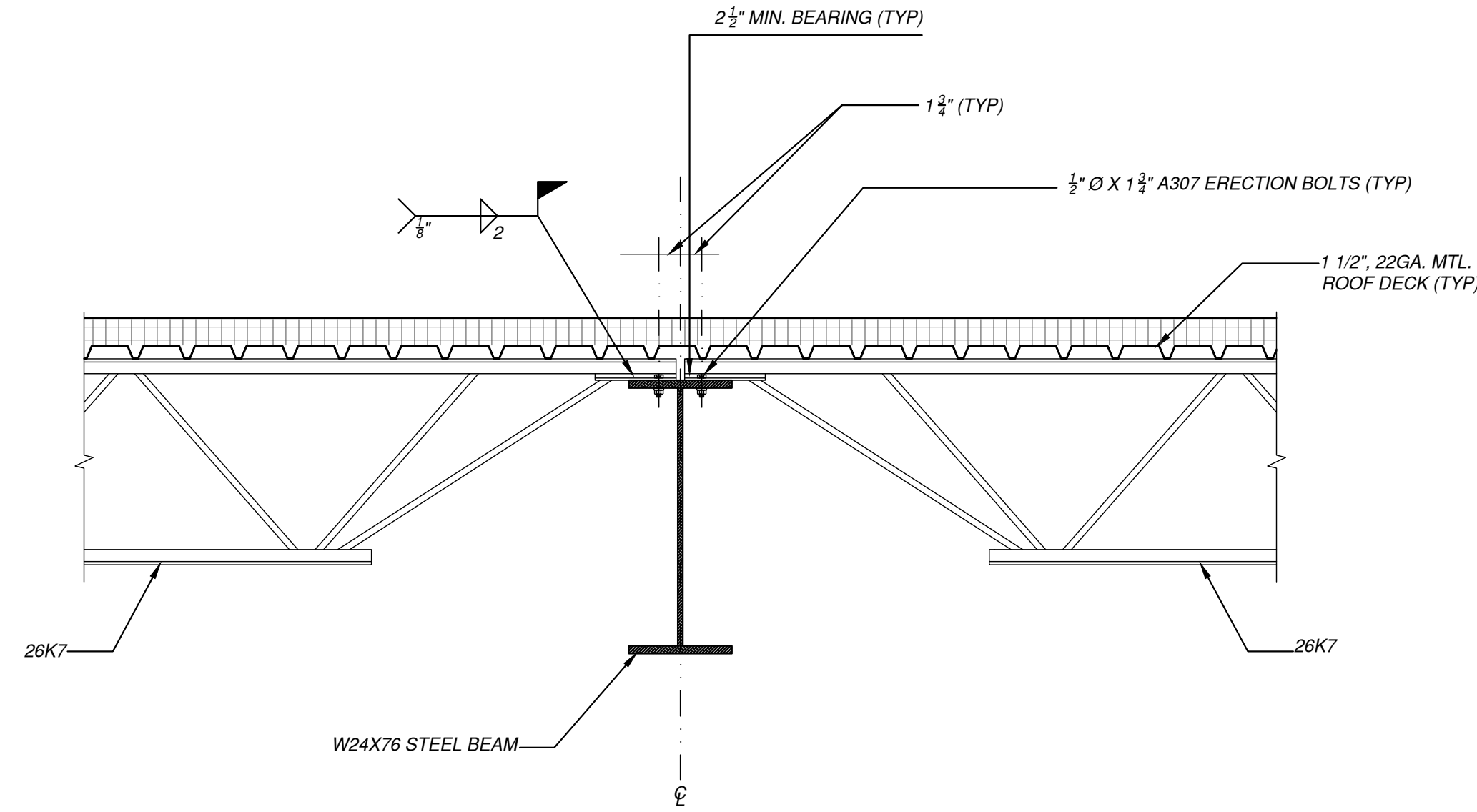
FILES\REVIEWS\03\2021\01-19-ADAMS\CIVIL 3D PROJECTS\02-19-ADAMS\STRUCTURE.DWG



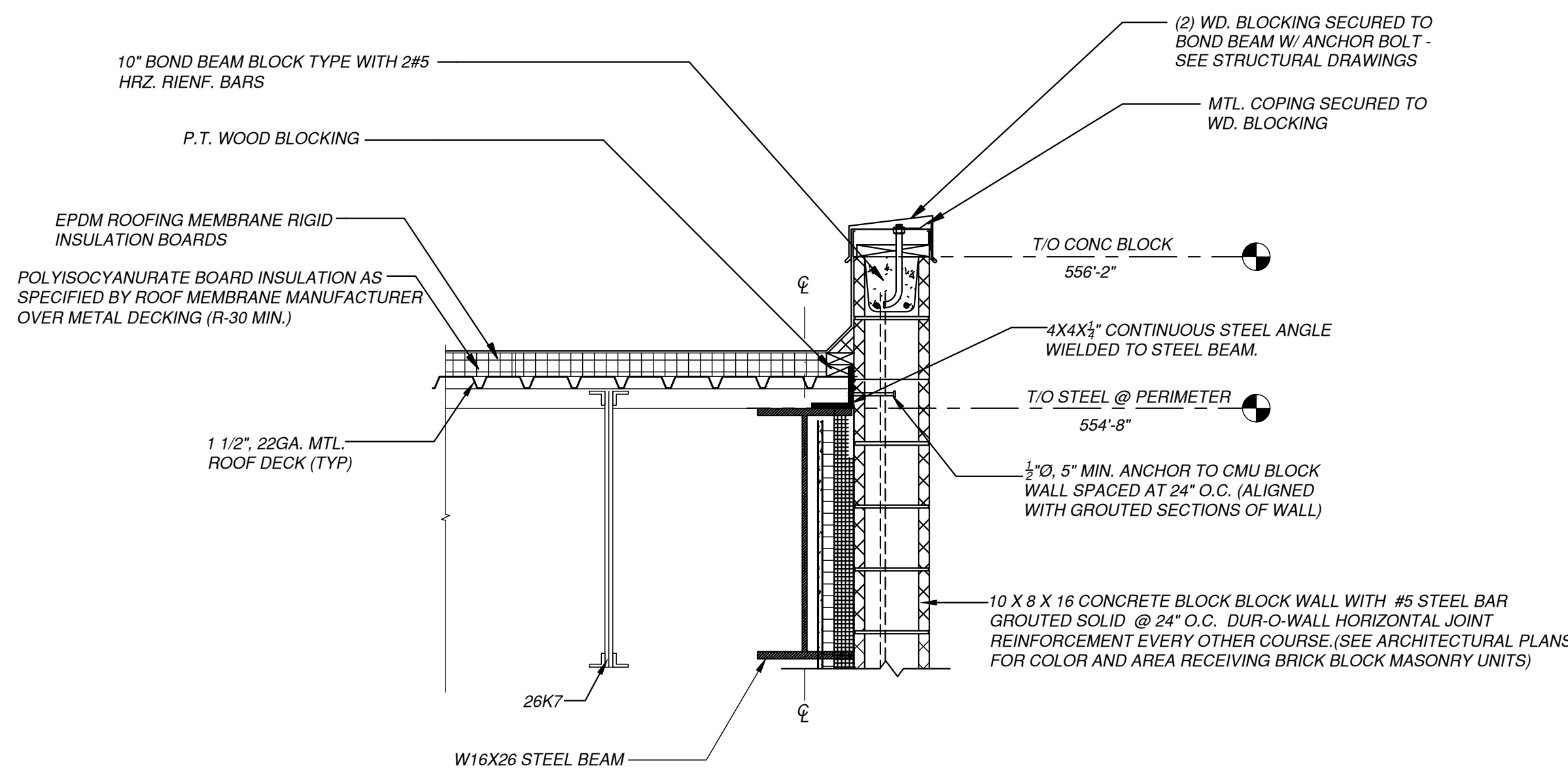
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S8 JOIST TO CMU WALL CONNECTION
N.T.S.



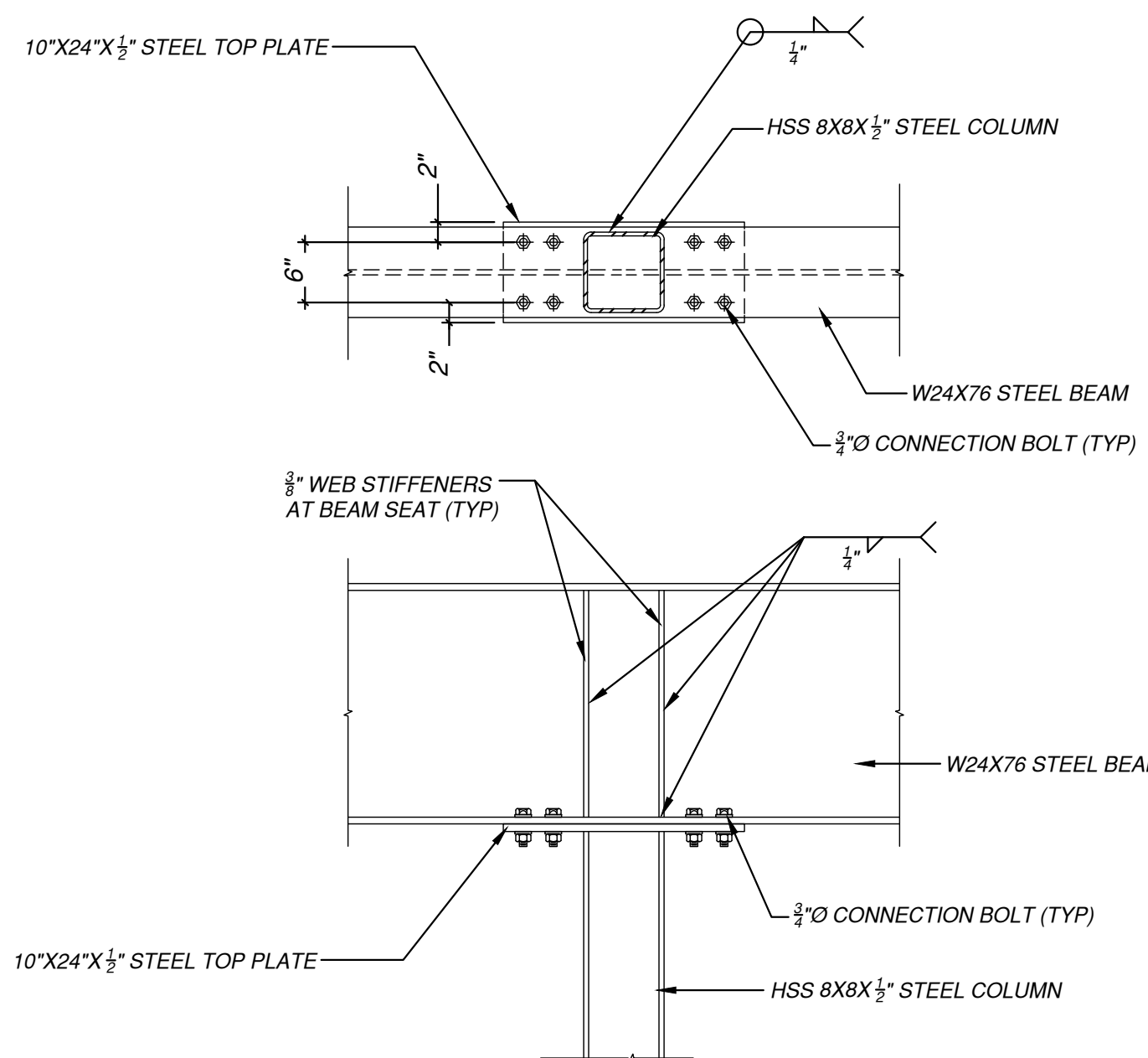
2
S8 JOIST TO BEAM CONNECTION (WITH DIAGONAL BRIDGING)
N.T.S.



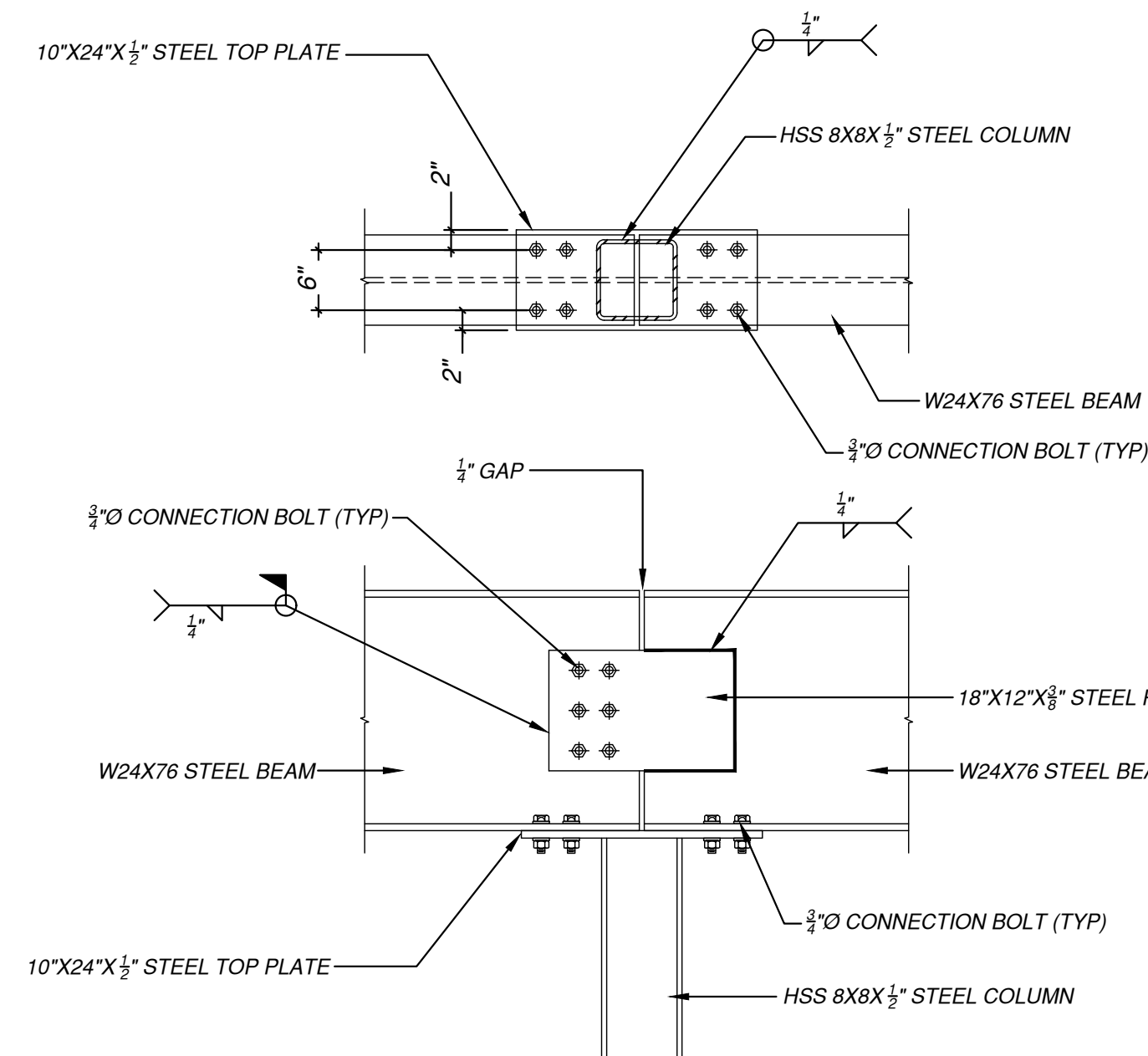
3
S8 JOIST TO BEAM CONNECTION
N.T.S.



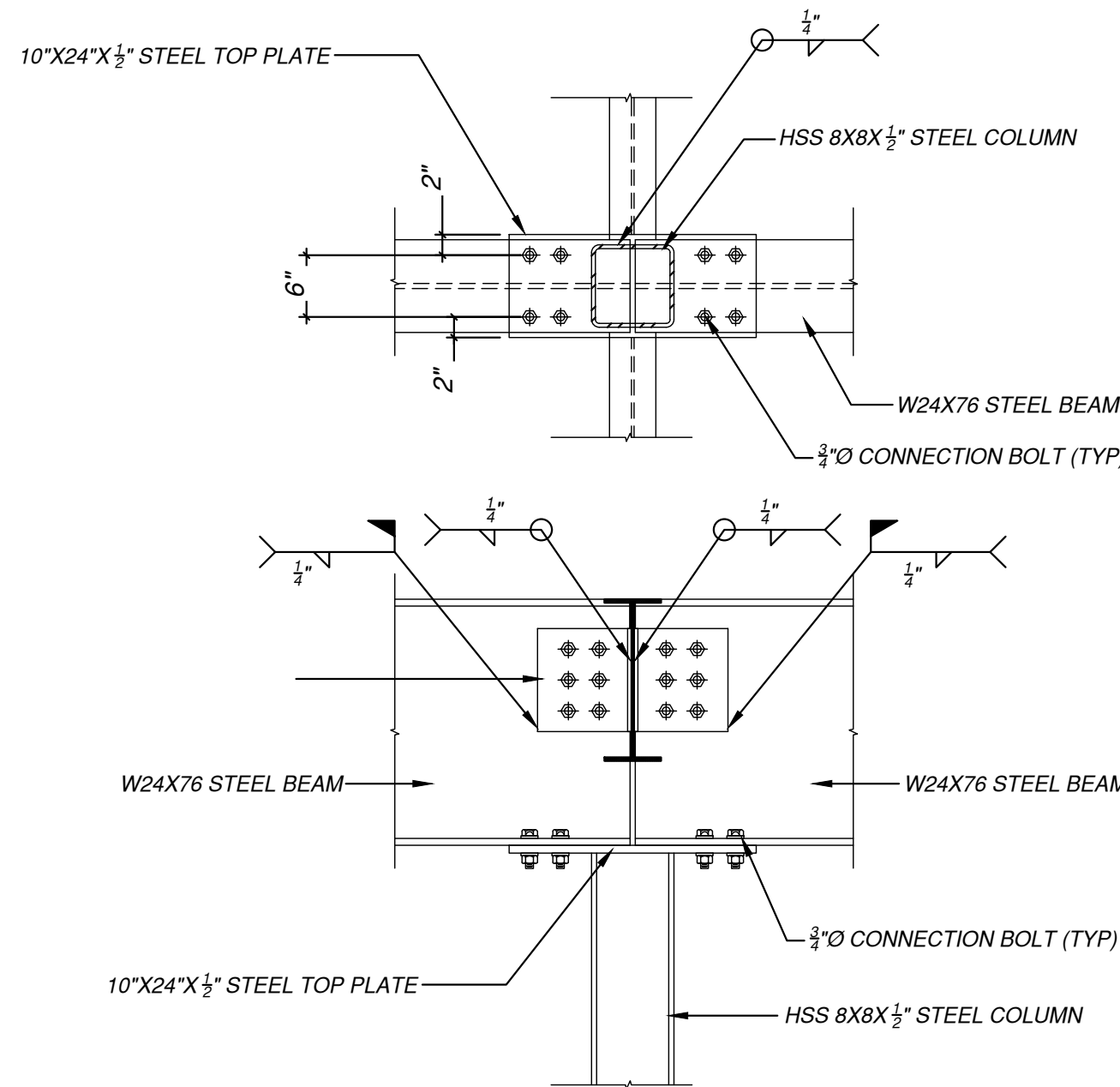
4
S8 JOIST TO BEAM END CONNECTION
N.T.S.



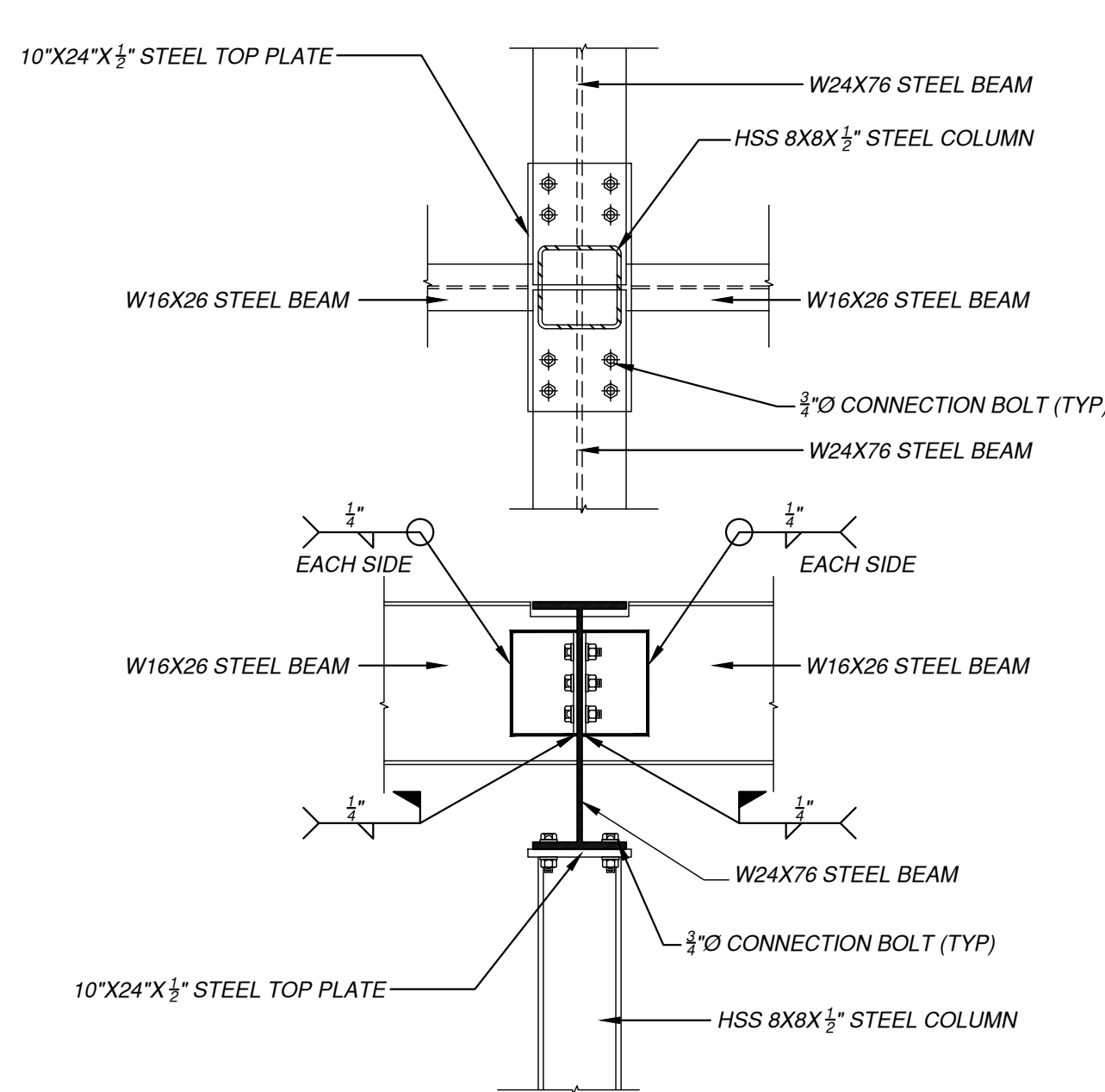
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S8 JOIST TO BEAM CONNECTION
N.T.S.



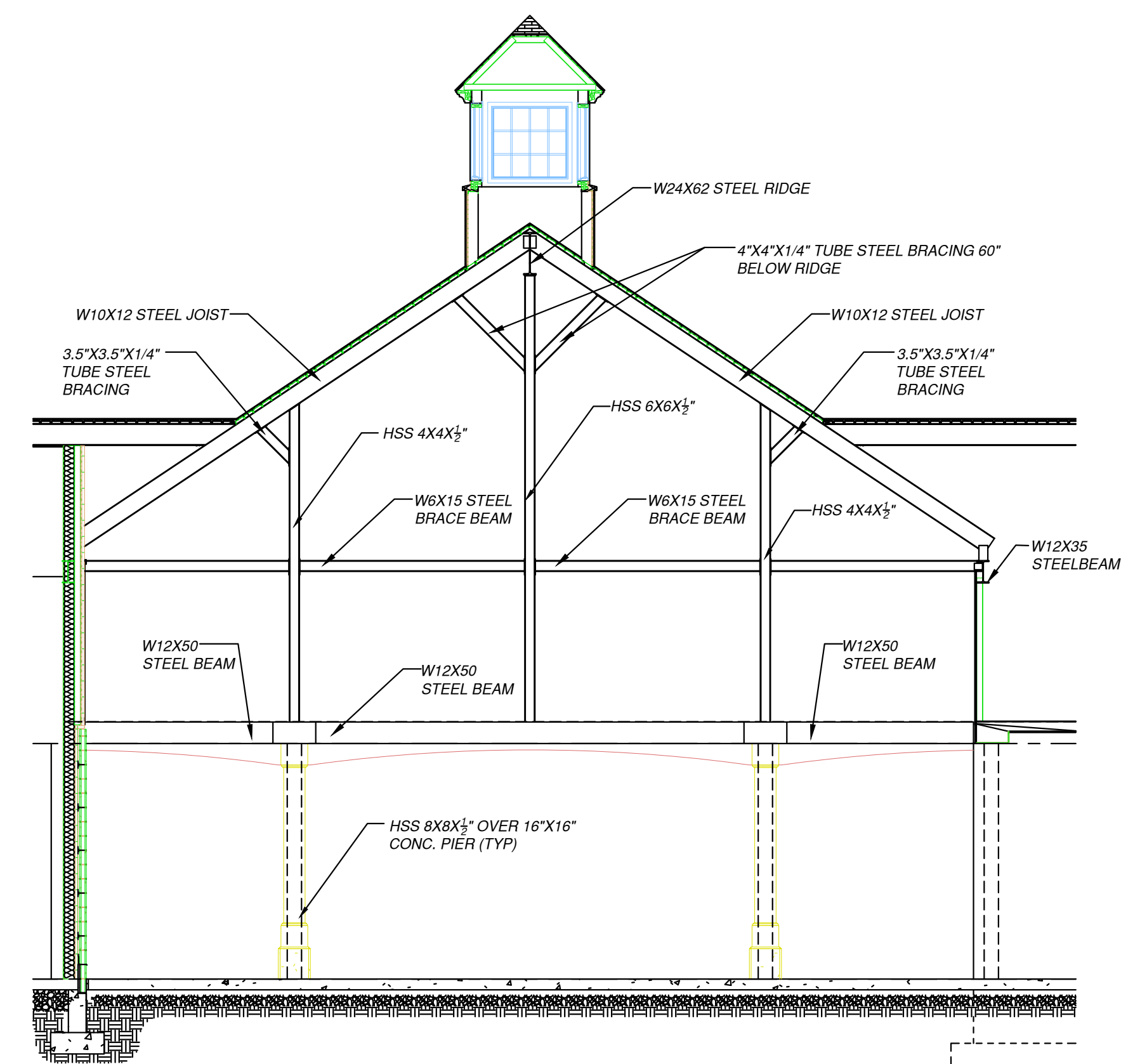
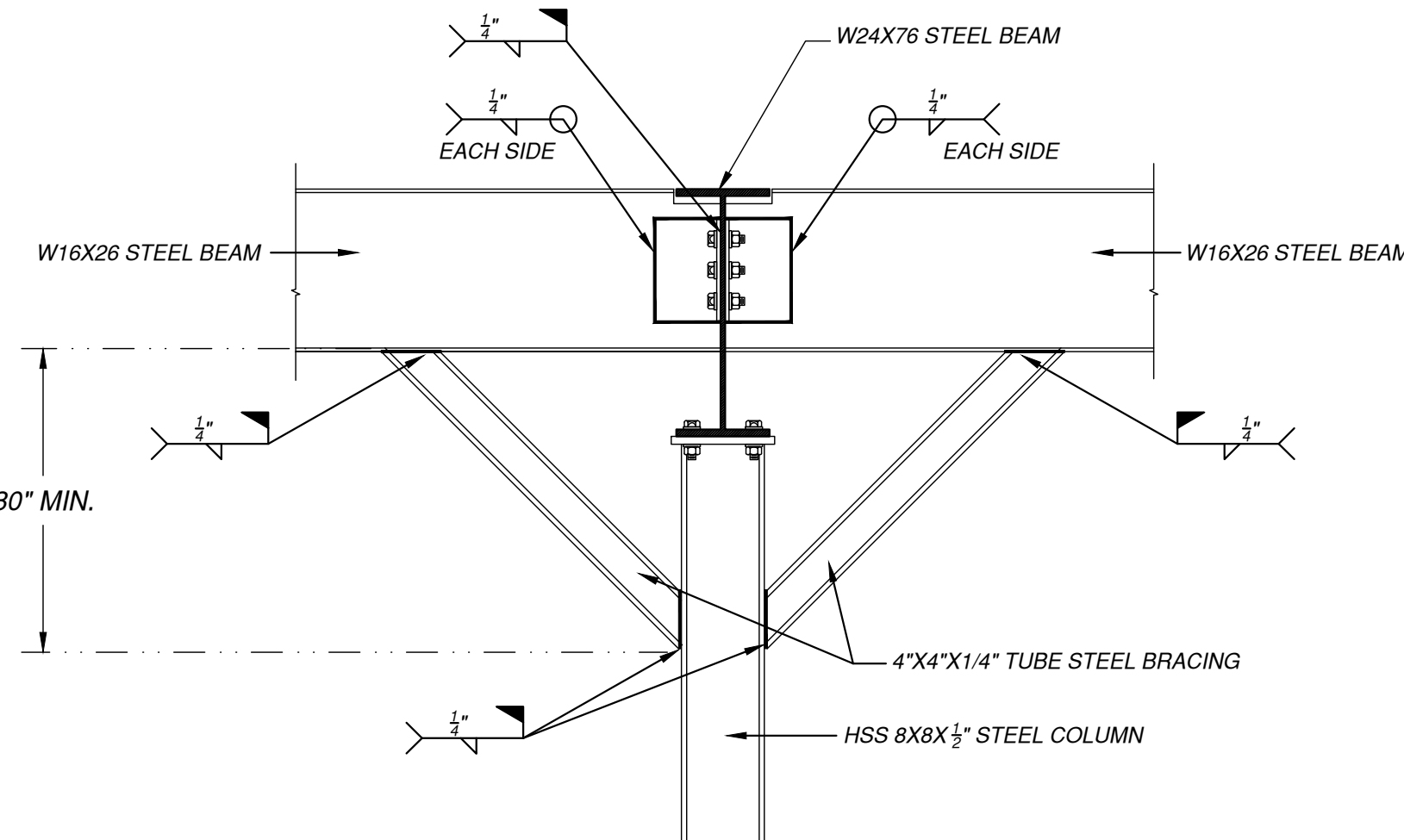
6
S8 JOIST TO BEAM CONNECTION
N.T.S.



7
S8 JOIST TO BEAM CONNECTION
N.T.S.



8
S8 STEEL BEAM TYPICAL BRACING DETAIL
N.T.S.



9
S8 STORE FRONT ENTRY GABLE END DETAIL
N.T.S.

Consultant:

Consultant (A/C):

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PROFESSIONAL ENGINEERING AND LAND SURVEYING



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ADAMS
FAIRACRE FARMS
NYS ROUTE 211, MIDDLETOWN, NY
Town of Walker, Orange County, New York

Prepared For:

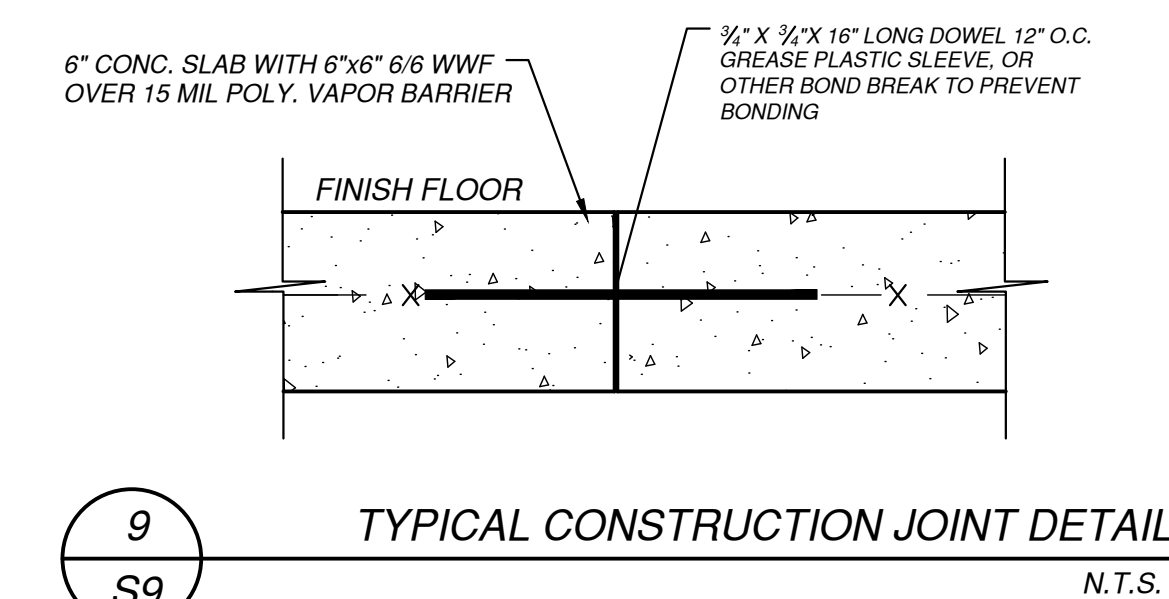
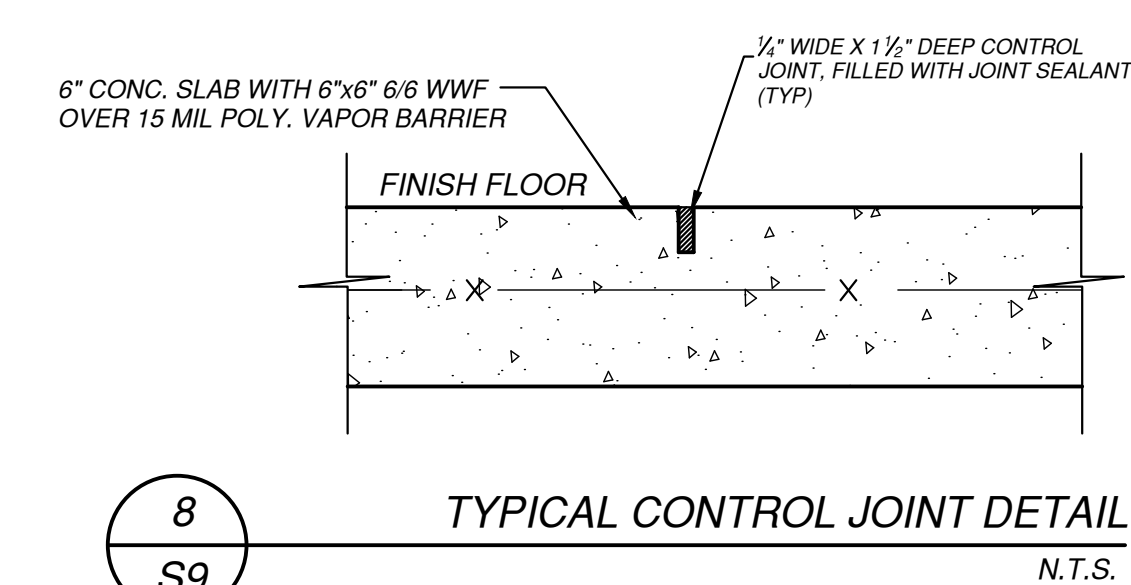
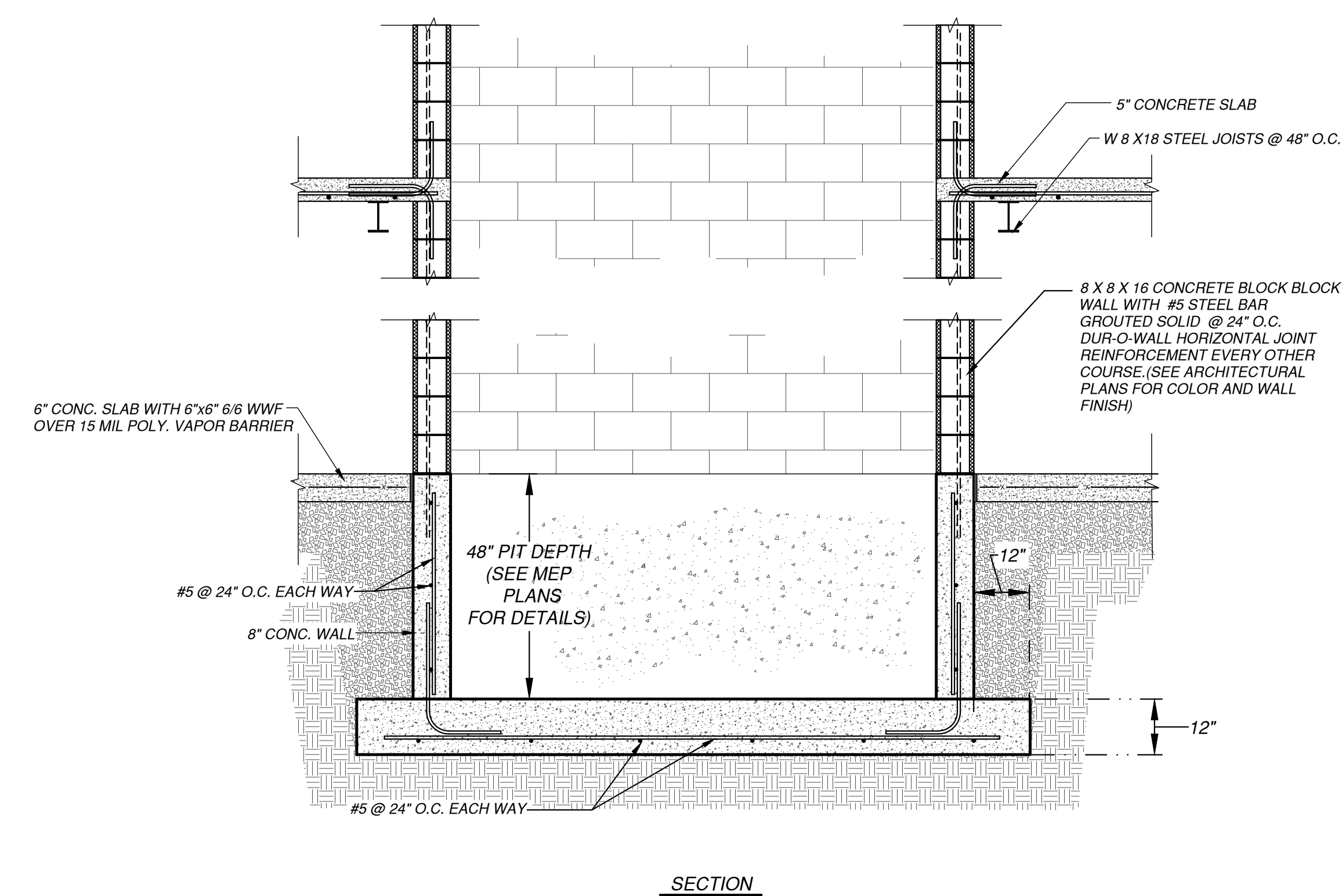
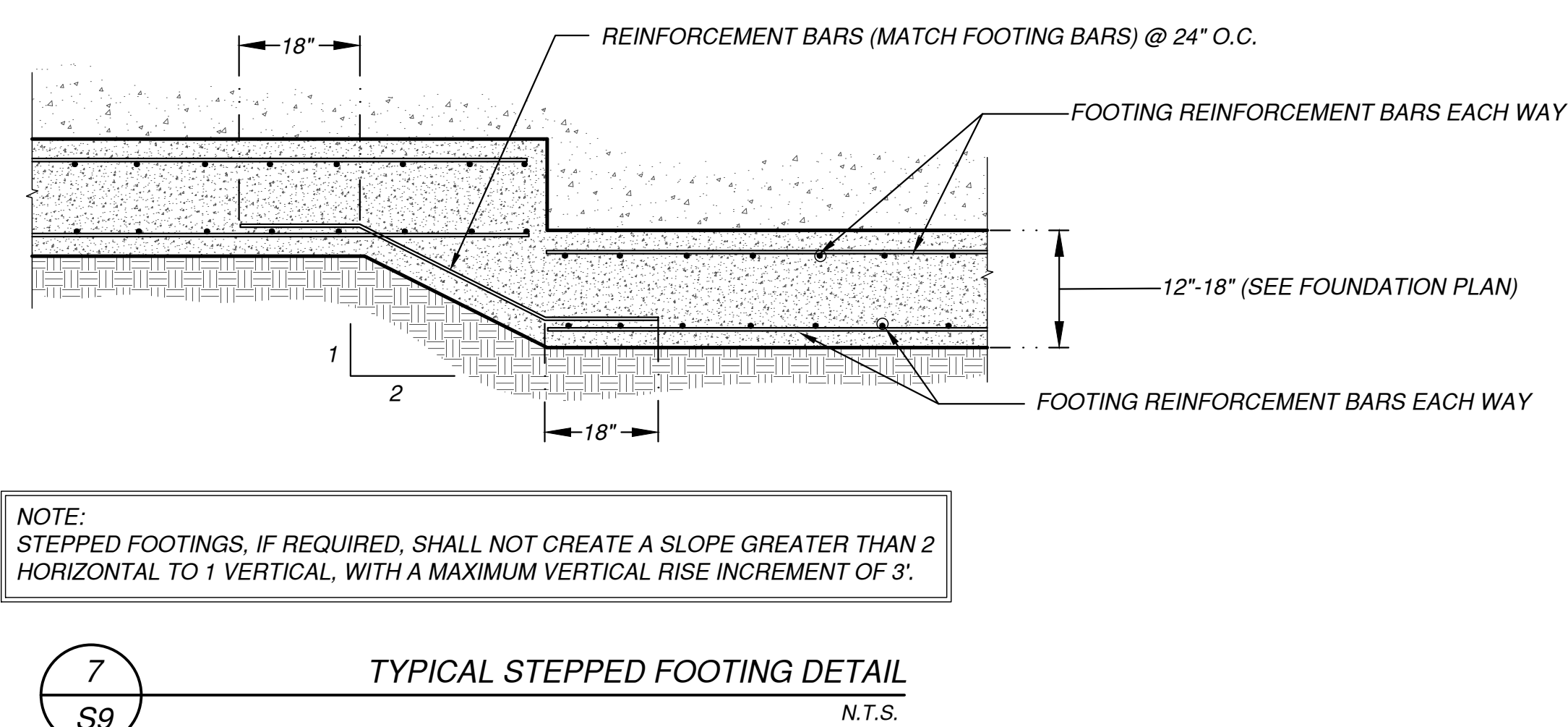
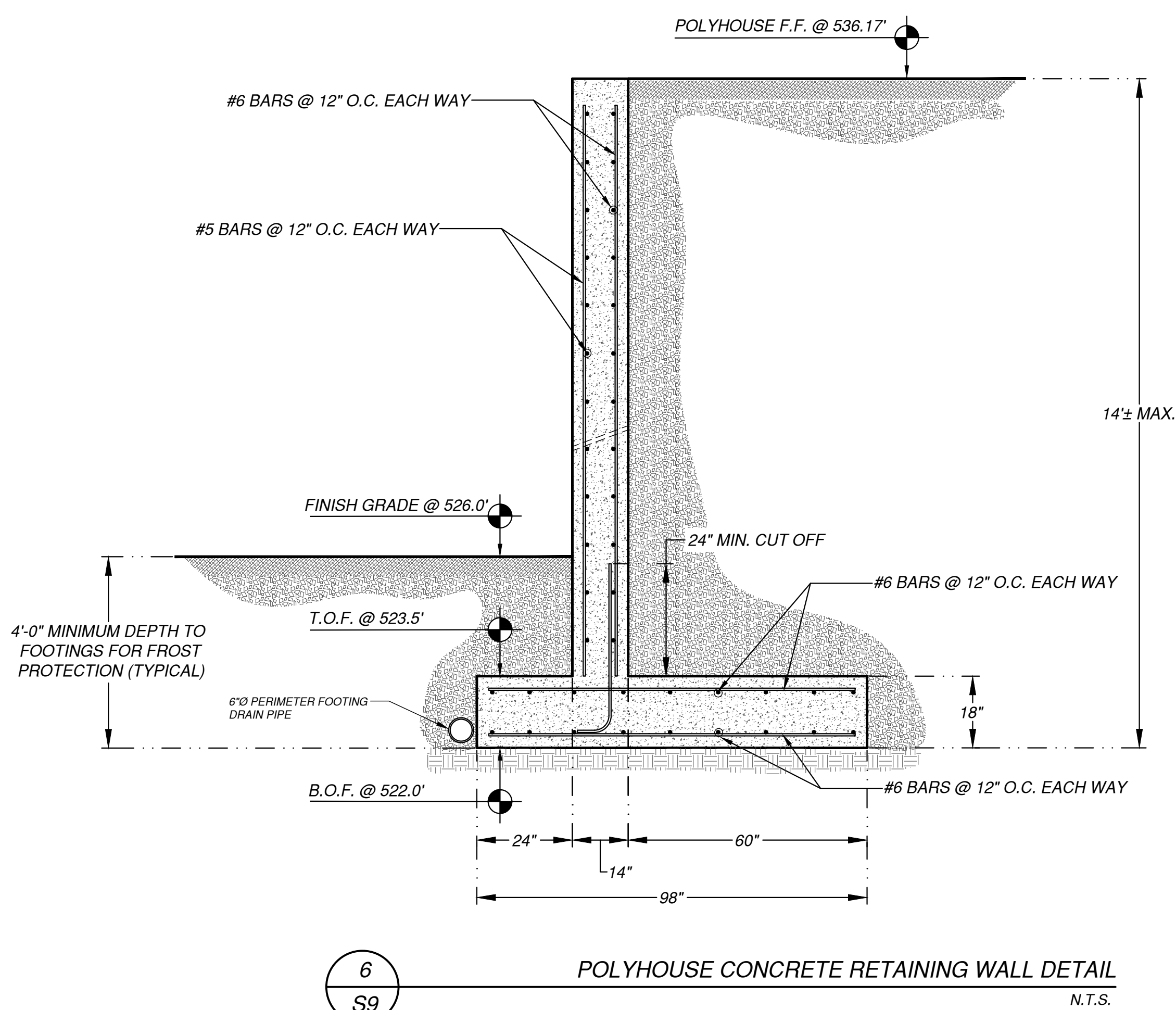
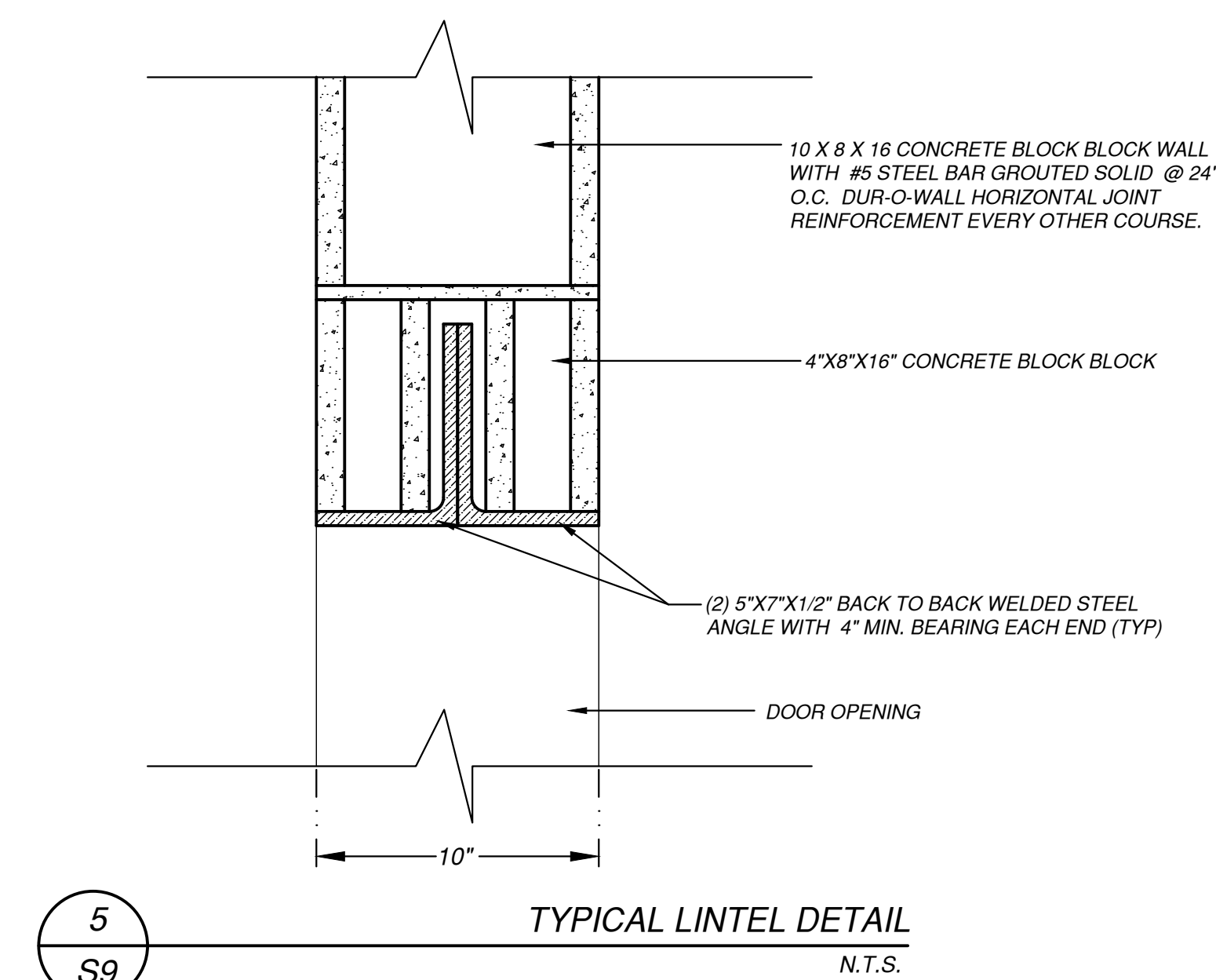
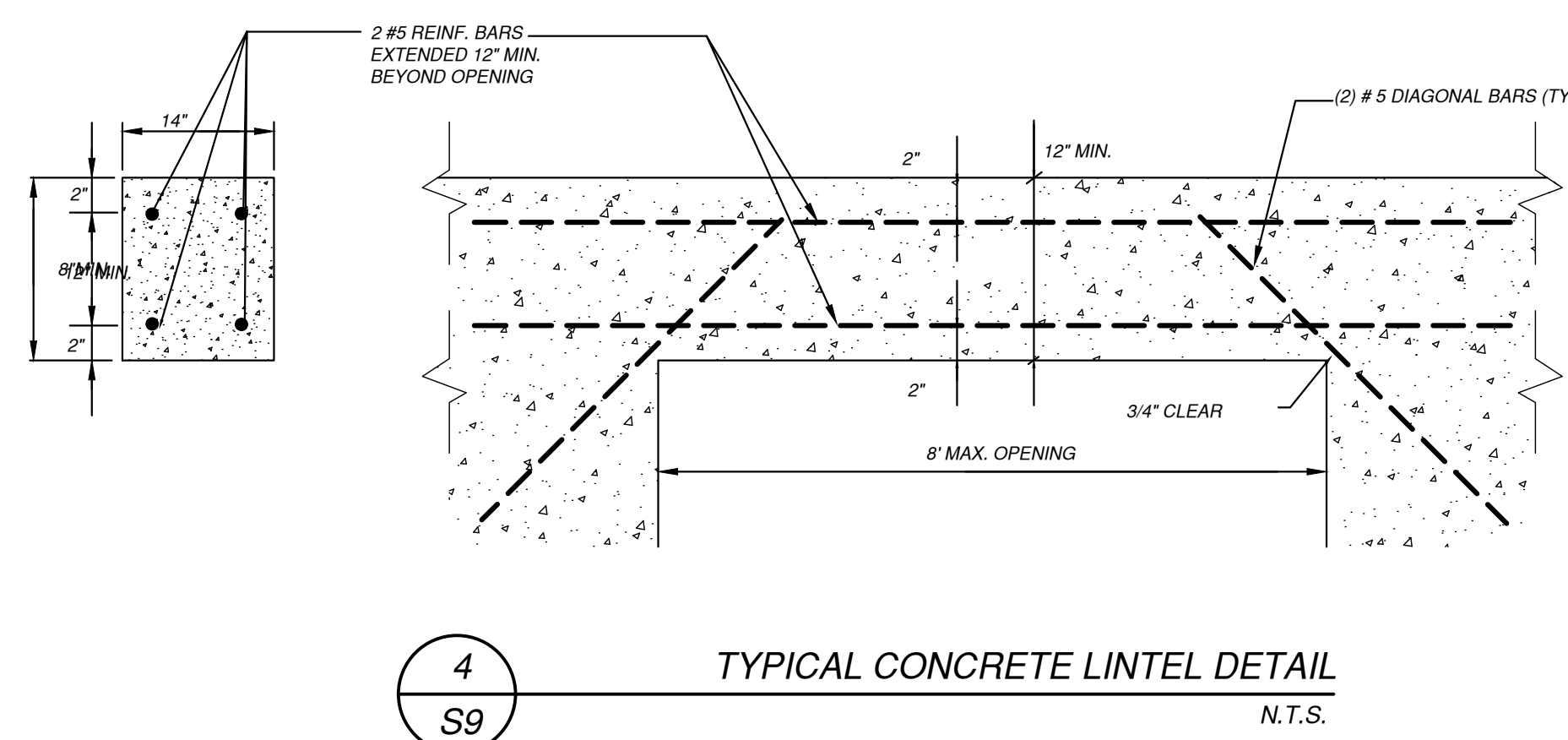
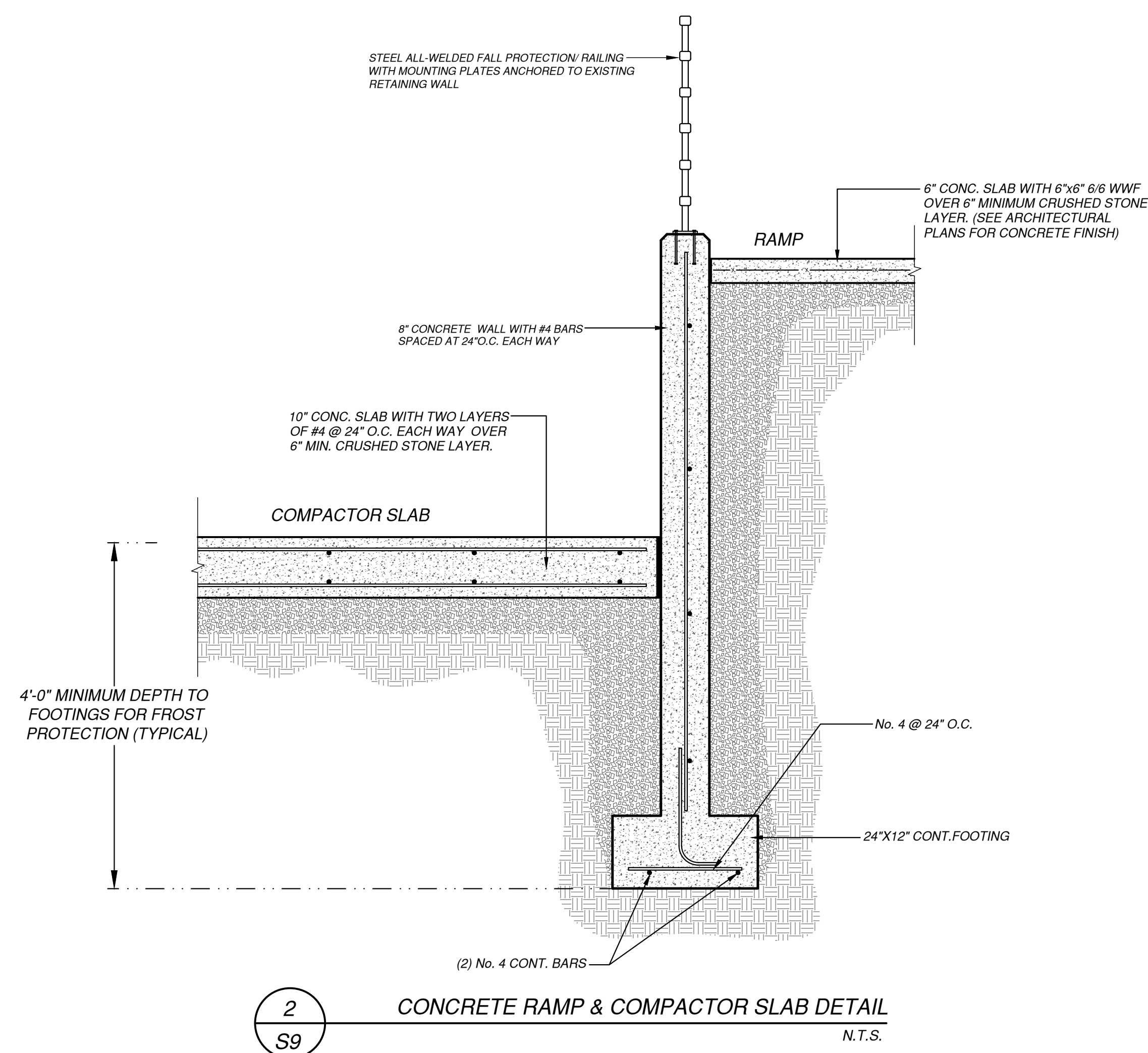
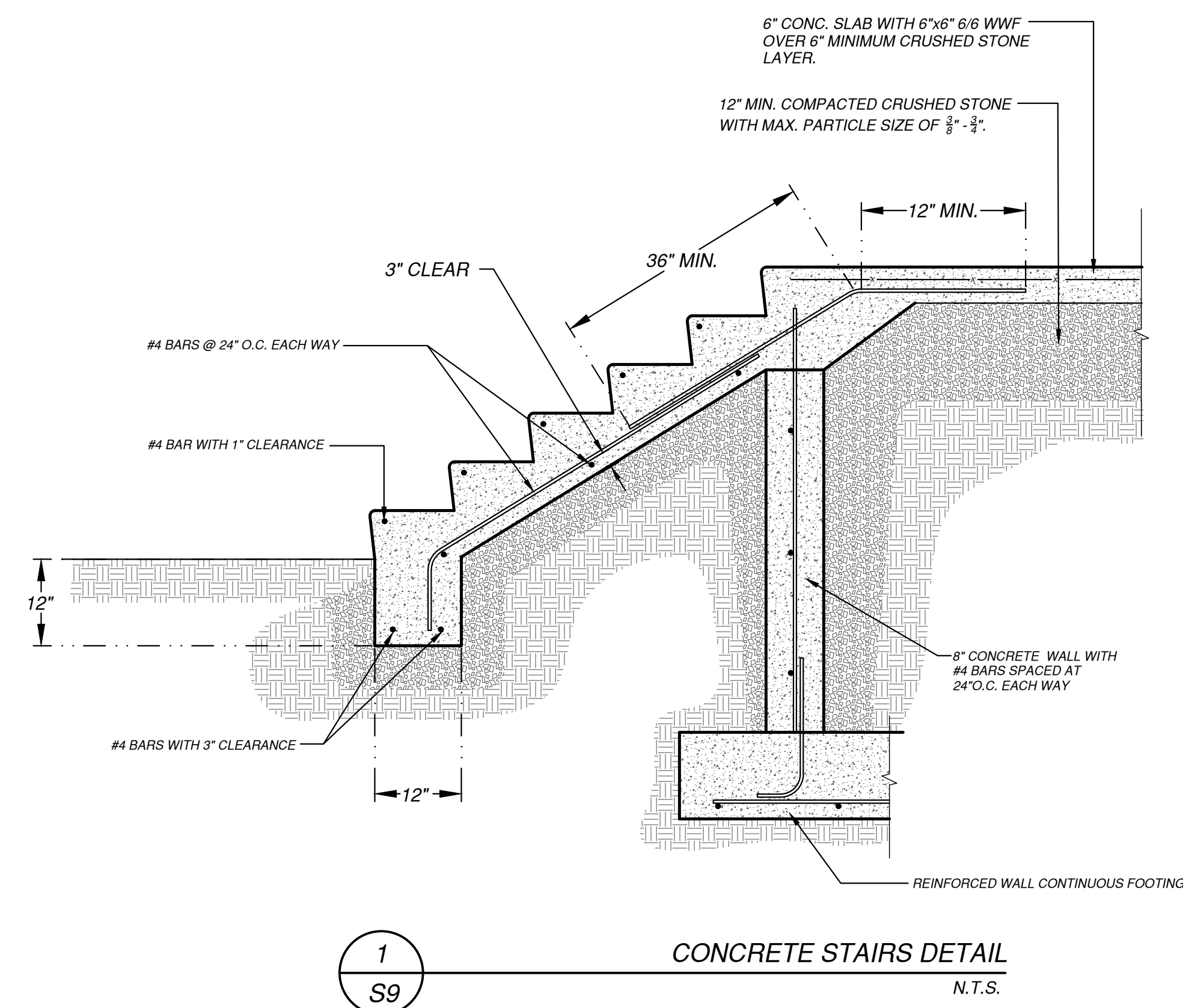
Revisions:
Revision Number: Date: Drawn By: Checked By:
R-1 10-25-2021 KIE KIE
Revisions per 10/5/21 MHE review letter

P&C Project No.: D20-136
Drawn By: KIE
Check By: KIE
Scale: AS SHOWN
Date: 06 August 2021

S8

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SECTIONS & DETAILS



NOTE:

DIMENSIONS OF THE ELEVATOR UNIT AND SHAFT WERE TAKEN FROM A DRAWING AND DETAILS PROVIDED BY PLAN B RETAIL DESIGN. THE CONTRACTOR SHALL VERIFY THE FINAL DIMENSIONS OF THE ELEVATOR PIT AND SHAFT PRIOR TO CONSTRUCTION.