

GENERAL NOTES, CODES AND SPECIFICATIONS:

- 1.) THE FOLLOWING REQUIREMENTS ALONG WITH THE DRAWINGS AND PROJECT SPECIFICATIONS SHALL BE COORDINATED AND SHALL APPLY TO THIS STRUCTURE AND OTHER REQUIRED ASSOCIATED WORK.
- 2.) ALL WORK, TESTING, MATERIALS, ETC. SHALL BE IN ACCORDANCE WITH THE "BUILDING CODE OF THE STATE OF NEW YORK," LATEST EDITION AND WITH THE REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION.
- 4.) ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE'S (ACI) "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, AC318-05."
- 7.) IF ANY FIELD CONDITIONS PRECLUDE COMPLIANCE WITH THE DRAWINGS AND/OR CONDITIONS SPECIFIED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER AND SHALL NOT PROCEED WITH ANY WORK THAT WOULD BE AFFECTED UNTIL FORMALLY DIRECTED BY THE ARCHITECT/ENGINEER ON HOW TO PROCEED.
- 8.) THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN FIELD PRIOR TO THE FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS OR DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER.
- 9.) INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISAPPLIED OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. IF FAULTY CONSTRUCTION PROCEDURES OR MATERIALS RESULT IN DEFECTIVE WORK THAT REQUIRES ADDITIONAL ENGINEERING TIME TO DEVISE CORRECTIVE MEASURES, PROFESSIONAL FEES MAY BE CHARGED TO THE CONTRACTOR AT THE STANDARD HOURLY RATE OF ADDITIONAL SERVICES. SUCH FEES MAY BE WITHHELD FROM THE GENERAL CONTRACTOR'S PAYMENT.
- 10.) THE STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH THE ARCHITECTURAL, M/E/P DRAWINGS (INCLUDING ALL CONTRACT SHOP DRAWINGS) AND EQUIPMENT MANUFACTURERS TO ENSURE THAT OPENINGS, ANCHORS, INSERTS, SLEEVES, ATTACHMENTS, ETC. ARE PROVIDED AS REQUIRED. SOME OF THE DETAILS OF THE WORK ARE SHOWN ON THESE DRAWINGS AND SHOULD BE CAREFULLY REVIEWED BY THE CONTRACTOR TO FULLY COMPREHEND THE FULL SCOPE OF WORK.
- 11.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND COORDINATING ALL DIMENSIONS WITH THE ARCHITECTURAL AND M/E/P DRAWINGS. IN CASE OF CONFLICT, THE CONTRACTOR SHALL IMMEDIATELY REQUEST A CLARIFICATION FROM THE ARCHITECT.
- 12.) THE CONTRACTOR SHALL MAKE NO DEVIATION FROM THE DESIGN DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT.
- 13.) IN CASE OF CONFLICT BETWEEN NOTES, DETAILS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
- 14.) THIS STRUCTURE HAS BEEN DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER CONSTRUCTION OF THE STRUCTURE HAS BEEN COMPLETED. THE STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. LACK OF COMMENT BY THE ARCHITECT/ENGINEER IS NOT TO BE INTERPRETED AS APPROVAL OF THOSE ASPECTS OF WORK.
- 15.) REINFORCING BAR SHOP DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR FOR REVIEW AND APPROVAL BY THE ENGINEER..

FOUNDATION AND EXCAVATION:

- 1.) ALL NEW FOUNDATIONS SHALL BEAR ON 1,000 PSF SOIL ALLOWABLE BEARING CAPACITY TO BE VERIFIED IN FIELD.
- 2.) ALL WATER AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE BOTTOM OF THE EXCAVATION BEFORE COMPACTING SUBGRADE AND PLACING CONCRETE OR GRANULAR FILL.
- 3.) ALL SOIL SURROUNDING AND UNDER NEW AND EXISTING FOUNDATIONS SHALL BE PROTECTED FROM FREEZING AND FROST ACTION THROUGHOUT THE COURSE OF CONSTRUCTION.
- 4.) NO BACKFILLING AGAINST FOUNDATION WALLS SHALL BE DONE UNTIL THE FIRST FLOOR AND BASEMENT SLABS HAVE BEEN POURED AND THE CONCRETE HAS ATTAINED ITS SPECIFIED CONCRETE STRENGTH OR UNLESS THE FOUNDATION WALLS ARE TEMPORARILY BRACED BY THE CONTRACTOR. SUCH TEMPORARY BRACING, IF UTILIZED, SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK. CONTRACTOR SHALL SUBMIT SIGNED & SEALED COPIES OF SUCH DESIGNS TO THE ARCHITECT AND ENGINEER FOR REVIEW.
- 5.) CONTRACTOR SHALL VERIFY DIMENSIONS AND LOCATIONS OF ALL SLOTS, PIPE SLEEVES, OPENINGS, ANCHOR BOLTS, ETC. AS REQUIRED FOR THE BUILDING STRUCTURE AND FOR THE WORK OF OTHER TRADES BEFORE SETTING FORMS. COORDINATE ALL REQUIREMENTS WITH THE ARCHITECTURAL AND M/E/P DRAWINGS.
- 6.) VERTICAL CONSTRUCTION JOINTS IN WALLS SHALL BE USED ONLY WHEN UNAVOIDABLE AND SHALL BE LOCATED A MINIMUM 8'-0" FROM ANY SUPPORTING PIER OR BUTTRESS, EXCEPT WHERE SPECIFICALLY SHOWN ON THE DRAWINGS. NO HORIZONTAL CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THE DRAWINGS WILL BE ALLOWED.
- 7.) THE CONTRACTOR SHALL EMPLOY ALL NECESSARY MEASURES TO SAFEGUARD THE STRUCTURAL INTEGRITY OF ADJACENT STRUCTURES DURING EXCAVATION AND CONSTRUCTION OF NEW FOUNDATIONS.
- 8.) ALL REQUIRED UNDERPINNING, SHEETING, SHORING OR OTHER SIMILAR CONSTRUCTION ACTIVITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK TO PROVIDE ALL NECESSARY DESIGNS AND REQUIRED SPECIAL INSPECTIONS FOR SHEETING/SHORING AND UNDERPINNING. CONTRACTOR SHALL SUBMIT SIGNED & SEALED DRAWINGS OF SUCH DESIGNS TO THE ENGINEER. THE CONTRACTOR AND THE CONTRACTOR'S ENGINEER SHALL FILE SUCH DESIGNS WITH THE LOCAL BUILDING DEPARTMENT AND OBTAIN ALL NECESSARY ADDITIONAL PERMITS FOR SHEETING/SHORING AND UNDERPINNING OPERATIONS IF REQUIRED.
- 9.) ALL EXISTING FOUNDATIONS AND EXISTING CONDITIONS DEPICTED ON THE DRAWINGS ARE BASED ON LIMITED FIELD OBSERVATIONS AND OBSERVATIONS MADE DURING EXCAVATION OF TEST PITS AS PART OF THE SUBSURFACE INVESTIGATION. ANY UNUSUAL CONDITIONS OR DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
- 10.) AT NO TIME SHALL BULLDOZERS, TRUCKS OR OTHER HEAVY CONSTRUCTION EQUIPMENT BE PERMITTED CLOSER THAN 8'-0" TO ANY FOUNDATION WALL.
- 11.) CONFORM TO ALL NEW YORK STATE BUILDING CODE AND OSHA REQUIREMENTS REGARDING THE BRACING, SHEETING, SHORING, ETC. OF EXCAVATIONS.

CONCRETE:

- 1.) ALL DETAILING, FABRICATION AND PLACING OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE ACI DETAILING MANUAL SP-66 (LATEST REVISION). CONTRACTOR SHALL SUBMIT REINFORCING BAR SHOP DRAWINGS FOR ALL ELEMENTS FOR APPROVAL PRIOR TO PURCHASING REINFORCING MATERIAL.
- 2.) ALL CONCRETE SHALL BE NORMAL WEIGHT UNLESS OTHERWISE NOTED AND DEVELOP A MINIMUM STRENGTH IN 28 DAYS AS FOLLOWS: 3,500 PSI
SLUMP SHALL BE 4" (± 1" TOLERANCE). NO ADMIXTURES ARE PERMITTED WITHOUT THE ENGINEER'S WRITTEN PERMISSION OTHER THAN ENTRAINED AIR. CONCRETE EXPOSED TO WEATHER, SUCH AS THAT USED IN FOUNDATION WALLS AND SLABS-ON-GRADE, SHALL CONTAIN 5% ENTRAINED AIR (±1% TOLERANCE). FLASH IS NOT PERMITTED.
- 4.) THE CONTRACTOR SHALL SUBMIT THE CONCRETE MIX DESIGN TO THE ENGINEER FOR APPROVAL TOGETHER WITH LABORATORY RESULTS ATTESTING THAT THE MIXES CAN ATTAIN THE MINIMUM STRENGTH REQUIRED IN ACCORDANCE WITH CHAPTER 3 OF ACI 318-05.
- 5.) ALL REINFORCING BARS SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
- 7.) THE MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED ON THE DRAWINGS:
PILE CAPS: 3" (OR AS INDICATED)
FNDR. WALLS & PIERS: 1 1/2" (#5 & SMALLER)
2" (#6 & LARGER)
GROUND LEVEL SLAB: (SEE SECTIONS)
ELEVATED SLABS: 3/4"
BEAMS & COLUMNS: 1 1/2" TO STIRRUPS, TIES OR PRIMARY REINF.

SPECIAL INSPECTION SHALL BE PERFORMED FOR CONCRETE, REBAR, SUBGRADE AND PILES PER THE 2020 NEW YORK STATE BUILDING CODE

STRUCTURAL STEEL:

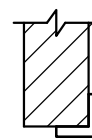
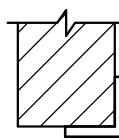
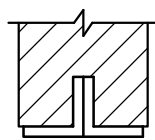
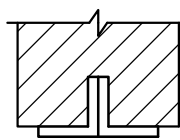
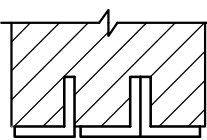
- 1.) ALL STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL MEET THE REQUIREMENTS OF ASTM A992. ALL OTHER STRUCTURAL STEEL SHAPES, PLATES, BARS, ETC. OTHER THAN STRUCTURAL STEEL TUBING SHALL MEET THE REQUIREMENTS OF ASTM A36. ALL STRUCTURAL STEEL TUBING (RECTANGULAR AND ROUND) SHALL MEET THE REQUIREMENTS OF ASTM A500 GRADE B, 42 KSI (ROUND) AND 46 KSI (RECTANGULAR).
- 2.) SHOP DRAWINGS PREPARED UNDER THE SUPERVISION OF A LICENSED STRUCTURAL ENGINEER, INCLUDING COMPLETE DETAILS FOR THE FABRICATION AND ASSEMBLY OF STRUCTURAL STEEL MEMBERS, PROCEDURES AND DIAGRAMs SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. THE STEEL FABRICATOR SHALL BE AISC QUALITY CERTIFIED CATEGORY 1 OR 2.
- 3.) ALL BOLTS SHALL BE 3/4"Ø MIN. TYPE X UON AND CONFORM TO ASTM A325. BOLTS SHALL BE HEAVY HEX WITH HEAVY HEX NUTS AND PLAIN HARDENED WASHERS CONFORMING TO ASTM F436.
- 4.) WHERE CONNECTIONS ARE NOT SPECIFICALLY DETAILED ON THE DRAWINGS, CONNECTIONS SHALL BE DESIGNED BY THE STEEL DETAILER FOR THE END REACTIONS SHOWN ON THE DRAWINGS OR IF END REACTIONS ARE NOT SHOWN, FOR A MINIMUM 60% OF TOTAL ALLOWABLE UNIFORM LOAD FOR BEAMS LATERALLY SUPPORTED FOR THE GIVEN SHAPE, SPAN AND STEEL SPECIFICATION OF THE BEAM IN QUESTION AS PER THE AISC MANUAL OF STEEL CONSTRUCTION, BUT NOT LESS THAN 6 kips. PROVIDE A MINIMUM OF TWO (2) BOLTS PER EACH LEG OF ALL CONNECTIONS.
- 5.) ALL WELDING SHALL BE PERFORMED USING THE SUBMERGED ARC PROCESS USING E70XX ELECTRODES. UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL BUTT WELDS SHALL BE 100% PENETRATION WELDS AND ALL FILLET WELDS SHALL BE 1/4" MINIMUM.
- 6.) ALL SHEAR STUD CONNECTORS SHALL BE 3/4"Ø AND CONFORM TO ASTM A108-81. SHEAR STUD CONNECTORS SHALL BE FIELD WELDED TO STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH SECTION 4.30 OF AWS D1.1.
- 7.) WHERE STEEL MEMBERS ARE SPECIFIED ON THE DRAWINGS TO BE SPLICED, THE SPLICE SHALL BE DESIGNED BY THE STEEL DETAILER TO DEVELOP THE FULL CAPACITY OF THE SECTION UNLESS FORCES AT THE SPLICE LOCATION ARE SPECIFIED ON THE DRAWINGS. SUCH SPLICES SHALL NOT INTERFERE WITH ANY ARCHITECTURAL OR MECHANICAL CLEARANCES. ALL SPLICE DETAILS AND LOCATIONS SHALL BE SHOWN ON THE SHOP DRAWINGS. WHERE SPLICES NOT SPECIFIED ON THE DRAWINGS ARE PROPOSED BY THE CONTRACTOR, THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE ENGINEER.
- 8.) ALL STRUCTURAL STEEL SHALL BE CLEANED IN ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL SPECIFICATION SP-3-82 FOR POWER TOOL CLEANING AND PAINTED TO A MINIMUM DRY FILM THICKNESS OF 2 MILS WITH A SHOP COAT OF TNEMEC #10-99 ALKYL D RUST INHIBITIVE PRIMER AS MANUFACTURED BY TNEMEC COMPANY, INC., KANSAS CITY, MO, OR APPROVED EQUAL.
- 9.) ALL STRUCTURAL STEEL THAT IS NOT TO RECEIVE SPRAY ON FIREPROOFING OR FULLY ENCASED IN CONCRETE OR EXPOSED TO WEATHER SHALL BE CLEANED IN ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL SPECIFICATION SP-3-82 FOR POWER TOOL CLEANING AND PAINTED WITH A SHOP COAT OF TNEMEC SERIES 10 PRIMER AS MANUFACTURED BY TNEMEC COMPANY, INC., KANSAS CITY, MO, OR APPROVED EQUAL.
- 10.) ALL STRUCTURAL STEEL, PLATES, BOLTS, NUTS, WASHERS, ETC. AS PART OF EXPOSED EXTERIOR STEEL DUNNAGE OR OTHER MEMBERS NOTED ON THE DRAWINGS TO BE GALVANIZED SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION CONFORMING TO ASTM A123 AND A153. TRIMMED ENDS OF STEEL AND DISTURBED SURFACES SHALL RECEIVE A BASE COAT OF Z.R.C. COLD GALVANIZING COMPOUND MANUFACTURED BY Z.R.C. CHEMICAL PRODUCTS INC., QUINCY, MA., OR EQUAL AND A TOP COAT OF ALUMINUM BASED PAINT.
- 11.) ALL GROUT SHALL FOR BASE PLATES AND ANCHOR BOLTS SHALL BE NON-METALLIC AND OF NON-SHRINKAGE TYPE WITH A MINIMUM COMPRESSIVE STRENGTH OF 7,500 AT 28 DAYS.
- 12.) ALL STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE HOT DIP GALVANIZED
- 13.) ALL BEAMS AND COLUMNS ADJACENT TO MASONRY SHALL HAVE DOVETAIL ANCHORS AT 1'-4" O.C. MAXIMUM OR THE EQUIVALENT INSTALLED UNLESS OTHERWISE NOTED ON THE DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIREMENTS.
- 14.) REFER TO THE ARCHITECTURAL AND M/E/P DRAWINGS FOR OTHER REQUIRED MISCELLANEOUS STEEL.
- 15.) CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY GUYING AND BRACING ALL STRUCTURAL STEEL TO MAINTAIN SAFETY, STABILITY AND ALIGNMENT DURING ALL PHASES OF CONSTRUCTION, AND SPECIFICALLY, DURING CONCRETE OPERATIONS. SUCH GUYING AND BRACING SHALL REMAIN IN PLACE UNTIL THE STRUCTURE HAS ATTAINED ADEQUATE STRENGTH.
- 16.) ALL STRUCTURAL STEEL WORK SHALL BE INSPECTED BY A LICENSED CERTIFIED TESTING AGENCY HIRED BY THE OWNER. ALL INSPECTIONS SHALL BE IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND GENERALLY ACCEPTED INDUSTRY PRACTICE. THE CONTRACTOR SHALL PROVIDE CERTIFIED LABORATORY MATERIAL CERTIFICATES FOR EACH DELIVERY OF MATERIAL BROUGHT TO THE SITE. CERTIFIED REPORTS PREPARED BY THE TESTING AGENCY SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW THAT ATTEST TO THE COMPLETENESS AND ADHERENCE OF THE WORK TO THE CONTRACT DOCUMENTS BY THE CONTRACTOR.

STEEL DECK:

- 1.) STEEL DECK SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE CURRENT SPECIFICATION OF THE STEEL DECK INSTITUTE.
- 2.) ALL STEEL DECK SHALL BE MANUFACTURED BY UNITED STEEL DECK, INC., OR APPROVED EQUAL. REFER TO THE DRAWINGS FOR TYPE, GAGE AND DEPTH OF DECKING AS WELL AS TOTAL SLAB THICKNESS (WHERE CONCRETE COVER IS SPECIFIED).
- 3.) PROVIDE HEAVIER GAUGE STEEL DECK THAN THAT SPECIFIED IF REQUIRED FOR HEAVIER CONSTRUCTION LOADING.
- 4.) THE STEEL DECK SHALL BE SUPPLIED IN MINIMUM LENGTHS AS REQUIRED TO PROVIDE A "2-SPAN" CONDITION UNLESS OTHERWISE NOTED OR SHOWN ON PLAN. PROVIDE ALL CLOSURES, ROOF SUMPS, POUR STOPS AND ALL OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
- 5.) UNLESS OTHERWISE NOTED ON THE DRAWINGS, STEEL FLOOR AND ROOF DECK SHALL BE WELDED TO SUPPORTING STEEL WITH 5/8"Ø PUDDLE WELDS AT 12" O.C.. INTERMEDIATE SIDE CONNECTIONS SHALL BE MADE WITH #10 SELF-TAPPING SCREWS AT A MIDSPAN OR 3'-0" O.C., WHICH EVER IS SMALLER. THE DECK MANUFACTURER'S RECOMMENDATION FOR FASTENING SHALL GOVERN IF MORE STRINGENT AND APPROVED BY THE ENGINEER.
- 6.) STEEL DECK SHALL BE PROTECTED BEFORE AND AFTER ERECTION AND ALL DEBRIS SHALL BE CLEANED FROM ITS SURFACE WHERE CONCRETE WILL BE POURED OR ROOFING/INSULATION IS TO BE PLACED.
- 7.) SHOP DRAWINGS INDICATING THE GAUGE, SIZE, TYPE AND LENGTH AND SHOWING THE LAYOUT OF EACH PIECE OF DECKING SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. SHOP DRAWINGS SHALL CLEARLY SHOW ALL FASTENING/WELDING DETAILS TO SUPPORTING STRUCTURAL MEMBERS, SIDE LAP CONNECTION DETAILS, SUPPLEMENTARY SUPPORT/REINFORCEMENT STEEL AND THE LOCATION OF ALL REQUIRED DECK OPENINGS/PENETRATIONS AS REQUIRED.
- 8.) COORDINATE DECKING WITH ARCHITECTURAL AND M/E/P DRAWINGS AND REQUIREMENTS.

CONCRETE MASONRY:

- 1.) ALL CONCRETE BLOCK SHALL BE LIGHTWEIGHT HOLLOW LOAD BEARING MASONRY UNITS UNLESS OTHERWISE NOTED ON THE DRAWINGS CONFORMING TO ASTM C90, CLASSIFICATION D-2, WITH A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 1,500 PSI ON THE NET AREA OF THE UNITS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 2.) MORTAR FOR ALL BEARING AND FACE BRICK/BLOCK WALL CONSTRUCTION SHALL BE TYPE S AND MORTAR FOR ALL FACE BRICK IN VENEER TYPE CONSTRUCTION SHALL BE TYPE N. ALL MORTAR SHALL CONFORM TO ASTM C270.
- 3.) COARSE GROUT USED IN PILASTERS AND WALLS SHALL CONFORM TO ASTM C476. USE ONE PART PORTLAND CEMENT, THREE PARTS DRY LOOSE SAND, 1.5 PARTS PEA GRAVEL AND THE MINIMUM AMOUNT OF WATER TO PRODUCE A WORKABLE MIX.
- 4.) CEMENT USED IN MORTAR SHALL CONFORM TO ASTM C150.
- 5.) ALL REINFORCING BARS SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. JOINT (HORIZONTAL) REINFORCEMENT SHALL BE DUR-O-WALL TRUSS TYPE OR APPROVED EQUAL.
- 6.) MASONRY SHALL NOT BE CONSTRUCTED IN TEMPERATURES BELOW 40°. PROVIDE A HEAT SOURCE AND PROTECTION AS REQUIRED TO MAINTAIN TEMPERATURE ABOVE 40°F. REFER TO ACI 530 FOR HOT AND COLD WEATHER CONSTRUCTION REQUIREMENTS.
- 7.) ALL CELLS WITH REINFORCING BARS OR BOLTS SHALL BE GROUTED SOLID.

STEEL LINTEL SCHEDULE											
		4" MASONRY	6" MASONRY	8" MASONRY	10" MASONRY	12" MASONRY					
											
OPN'G WIDTH	LINTEL LENGTH	#	SIZE	#	SIZE	#	SIZE	#	SIZE	#	SIZE
3'-0"	4'-0"	1	L3-1/2x3-1/2x3/8	1	L5x5x3/8	2	L3-1/2x3-1/2x3/8	2	L4x4x3/8	3	L4x3-1/2x3/8
3'-4"	4'-4"	1	"	1	"	2	"	2	"	3	"
3'-8"	4'-8"	1	"	1	"	2	"	2	"	3	"
4'-0"	5'-0"	1	"	1	"	2	"	2	"	3	"
4'-4"	5'-4"	1	"	1	"	2	"	2	"	3	"
4'-8"	5'-8"	1	"	1	"	2	"	2	"	3	"
5'-0"	6'-0"	1	L4x3-1/2x1/2	1	"	2	L4x3-1/2x1/2	2	"	3	L5x3-1/2x1/2
5'-4"	6'-8"	1	"	1	"	2	"	2	"	3	"
5'-8"	7'-0"	1	"	1	"	2	"	2	"	3	"
6'-0"	7'-4"	1	"	1	"	2	"	2	"	3	"
6'-4"	7'-8"	1	"	1	"	2	"	2	"	3	"
6'-8"	8'-0"	1	"	1	"	2	"	2	"	3	"
7'-0"	8'-4"	1	L5x3-1/2x5/8	1	L6x6x5/8	2	L5x3-1/2x5/8	2	L6x4x5/8	3	L6x3-1/2x5/8
7'-4"	8'-8"	1	"	1	"	2	"	2	"	3	"
7'-8"	9'-0"	1	"	1	"	2	"	2	"	3	"
8'-0"	9'-4"	1	"	1	"	2	"	2	"	3	"
9'-5"	10'-4"	1	L6x3-1/2x1/2	1	L8x6x1/2	2	L6x3-1/2x1/2	2	L8x4x1/2	3	L8x3-1/2x1/2

NOTES:

1. FIRST DIMENSION OF ANGLE DENOTES THE VERTICAL LEG.
2. PROVIDE EQUAL LENGTH OF BEARING AT EACH END OF LINTEL.
3. GROUT HOLLOW CORES BENEATH LINTEL BEARING SOLID FOR TWO (2) VERTICAL COURSES MINIMUM.

NOTES:

1. PROVIDE AND INSTALL LINTEL ANGLES FOR MASONRY OPENINGS AND PENETRATIONS IN ACCORDANCE WITH THE SCHEDULE ABOVE, UNLESS ANOTHER TYPE/SIZE LINTEL IS SPECIFIED ON PLAN. INSTALL LONG LEG VERTICAL. REFER TO ALL THE CONTRACT DRAWINGS TO DETERMINE THE SIZES AND LOCATIONS OF ALL MASONRY OPENINGS AND PENETRATIONS.
2. PROVIDE 6" MINIMUM BEARING AT EACH END BUT NOT LESS THAN 1" PER FOOT OF SPAN.
3. WHERE MINIMUM BEARING CANNOT BE PROVIDED, ATTACH SECURELY TO ADJACENT STRUCTURAL MEMBERS. COORDINATE SUCH CONNECTIONS WITH THE STRUCTURAL STEEL FABRICATOR.
4. WHERE LINTELS OCCUR IN EXTERIOR WALLS MINIMUM THICKNESS SHALL BE 5/16" AND ANGLES SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
5. WHERE ANGLES ARE BACK-TO-BACK, PROVIDE 1/2 INCH DIAMETER PLUG WELDS AT 24 INCH ON CENTER.
6. REFER TO ARCHITECTURAL HEAD DETAILS TO DETERMINE TYPE OF LINTEL TO BE INSTALLED.

STEEL LINTELS FOR MASONRY WALLS

2 NTS

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BINGHAMTON, NY 13901

04	BID	9/12/25
03	REVISED	4/7/25
02	BID SET	1/24/25
01	PROGRESS SET	7/26/24
No:	Description:	Date:
Revisions:		

Job No: FPE0085

Scale: AS SHOWN

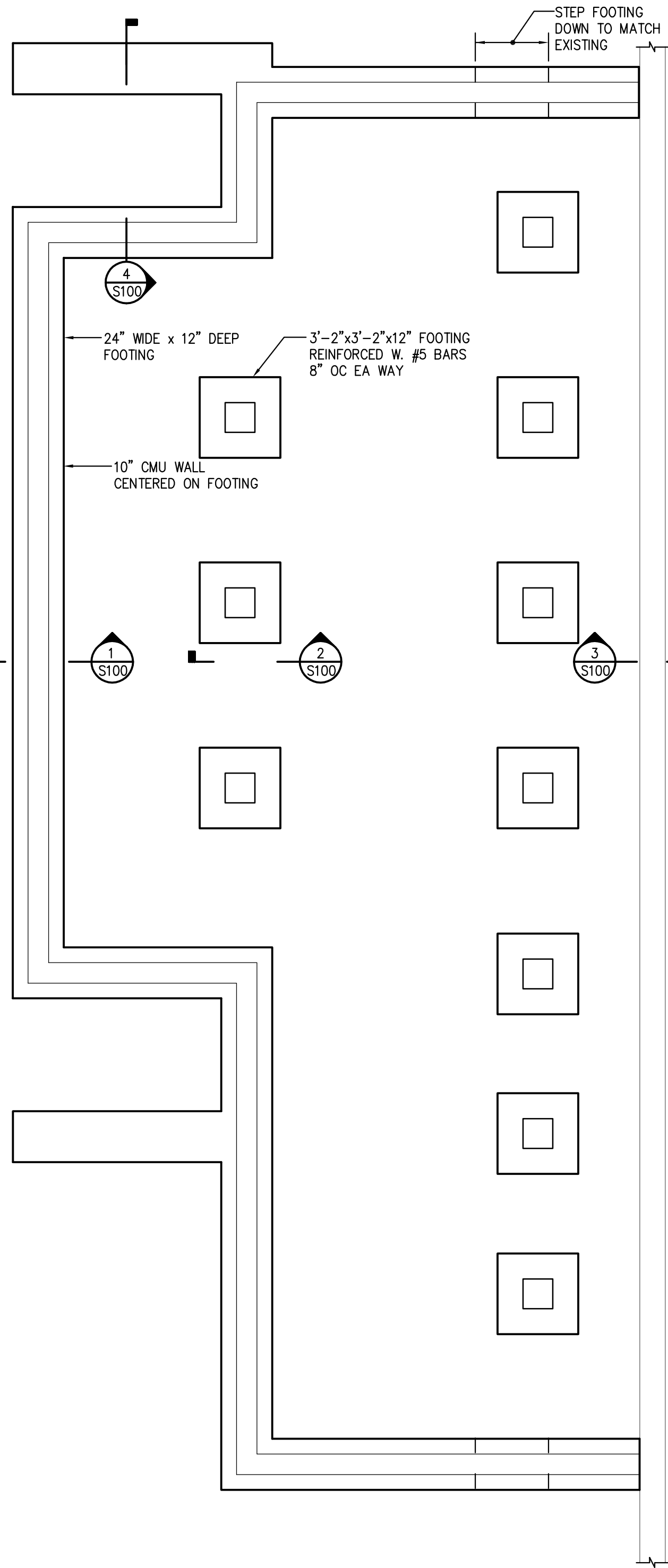
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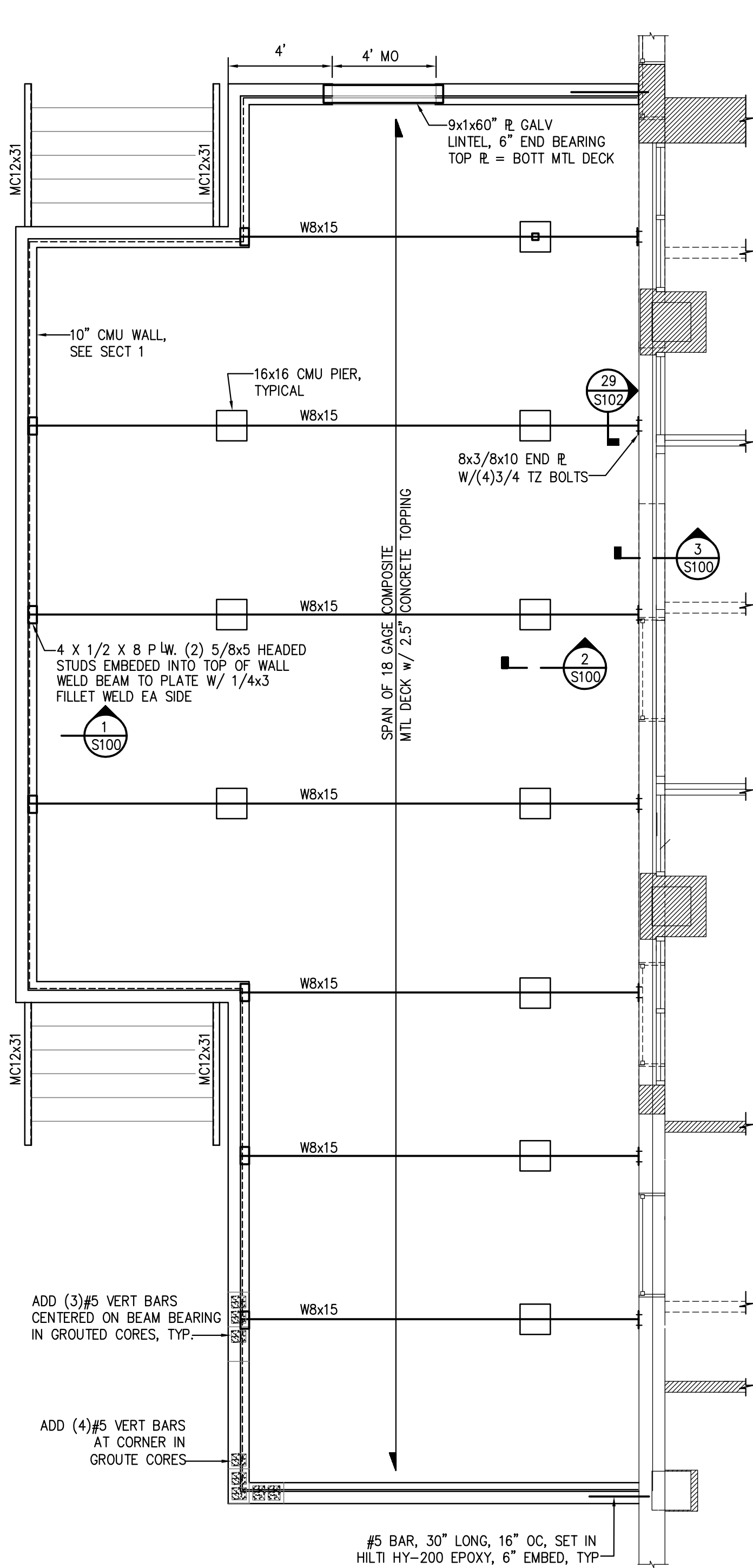
Sheet Title:
STRUCTURAL PATIO FOUNDATION,
FRAMING, SECTIONS & DETAILS

Drawing No.:

S-000



PATIO FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



PATIO FRAMING PLAN
SCALE: 1/4" = 1'-0"

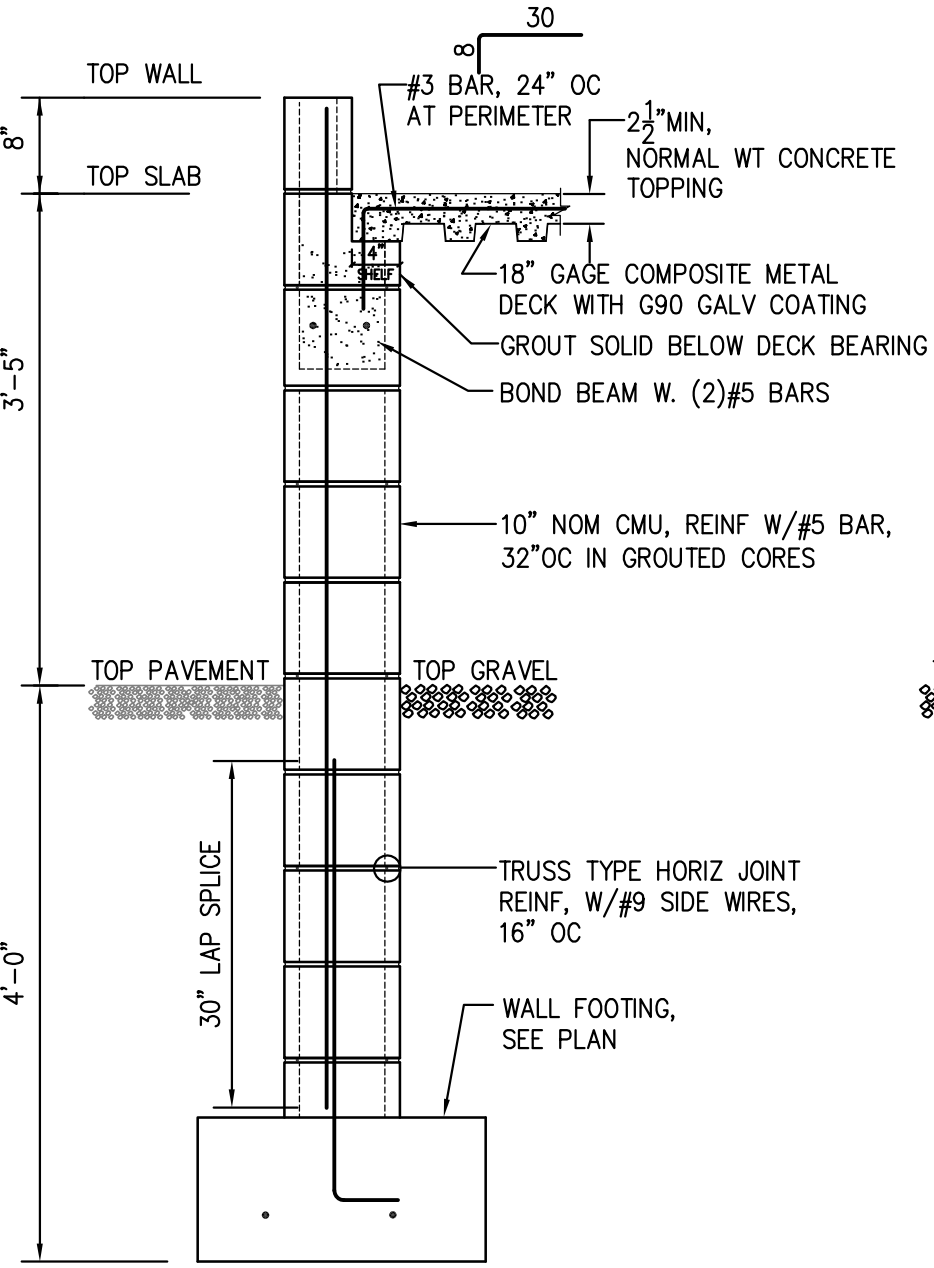
LIVE LOAD
PATIO 100 PSF
STAIR 100 PSF

ROOF SNOW LOAD
Pf = 40 PSF
Ce = 1.0
I = 1.0
Ct = 1.0

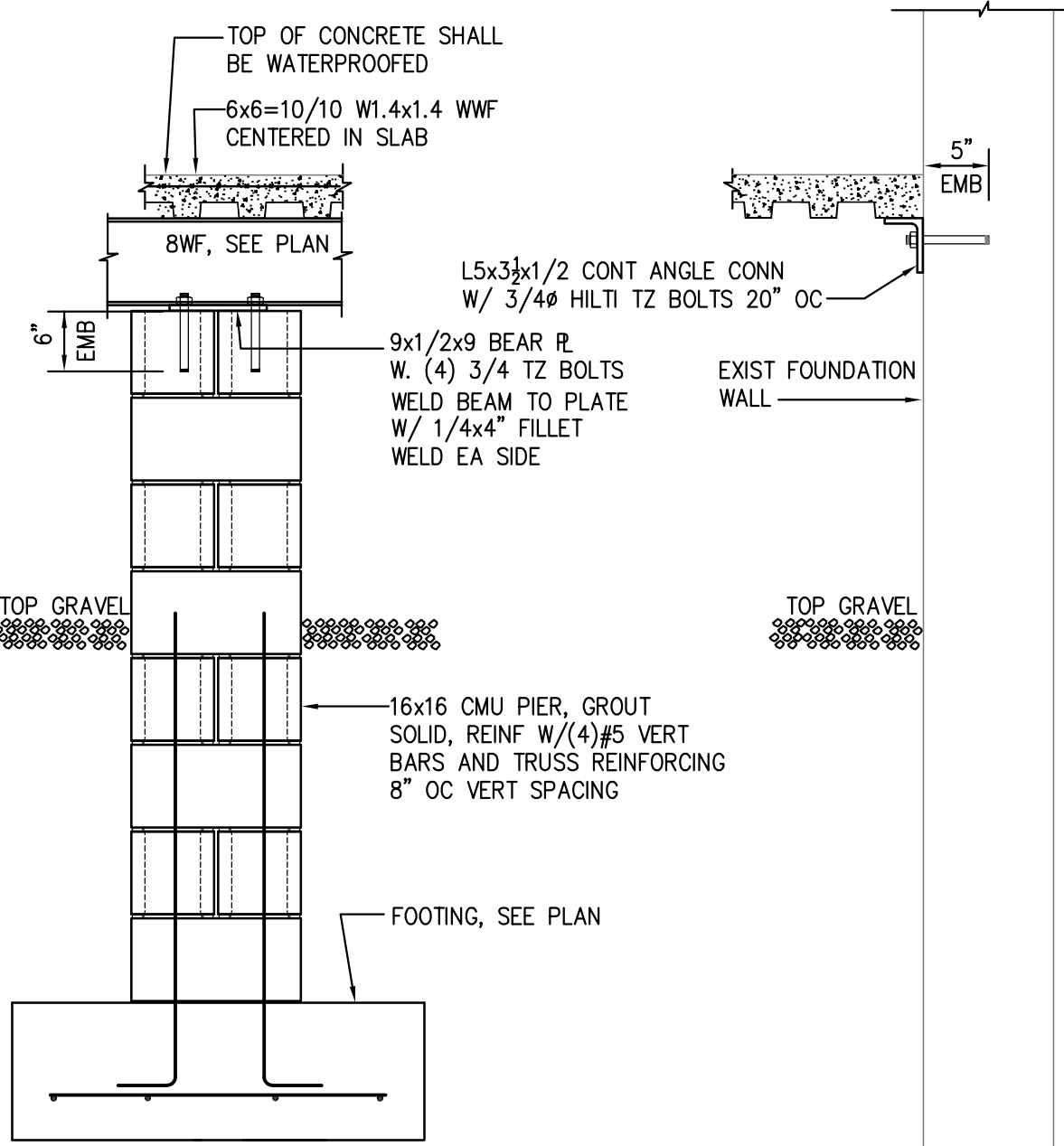
WIND
BASIC WIND SPEED = 110 MPH (ULTIMATE)
EXPOSURE = B

SPECIAL INSPECTION SHALL BE PERFORMED FOR CONCRETE, REBAR, STRUCTURAL STEEL DETAILS, BOLTING & WELDING PER THE NEW YORK STATE 2020 BUILDING CODE

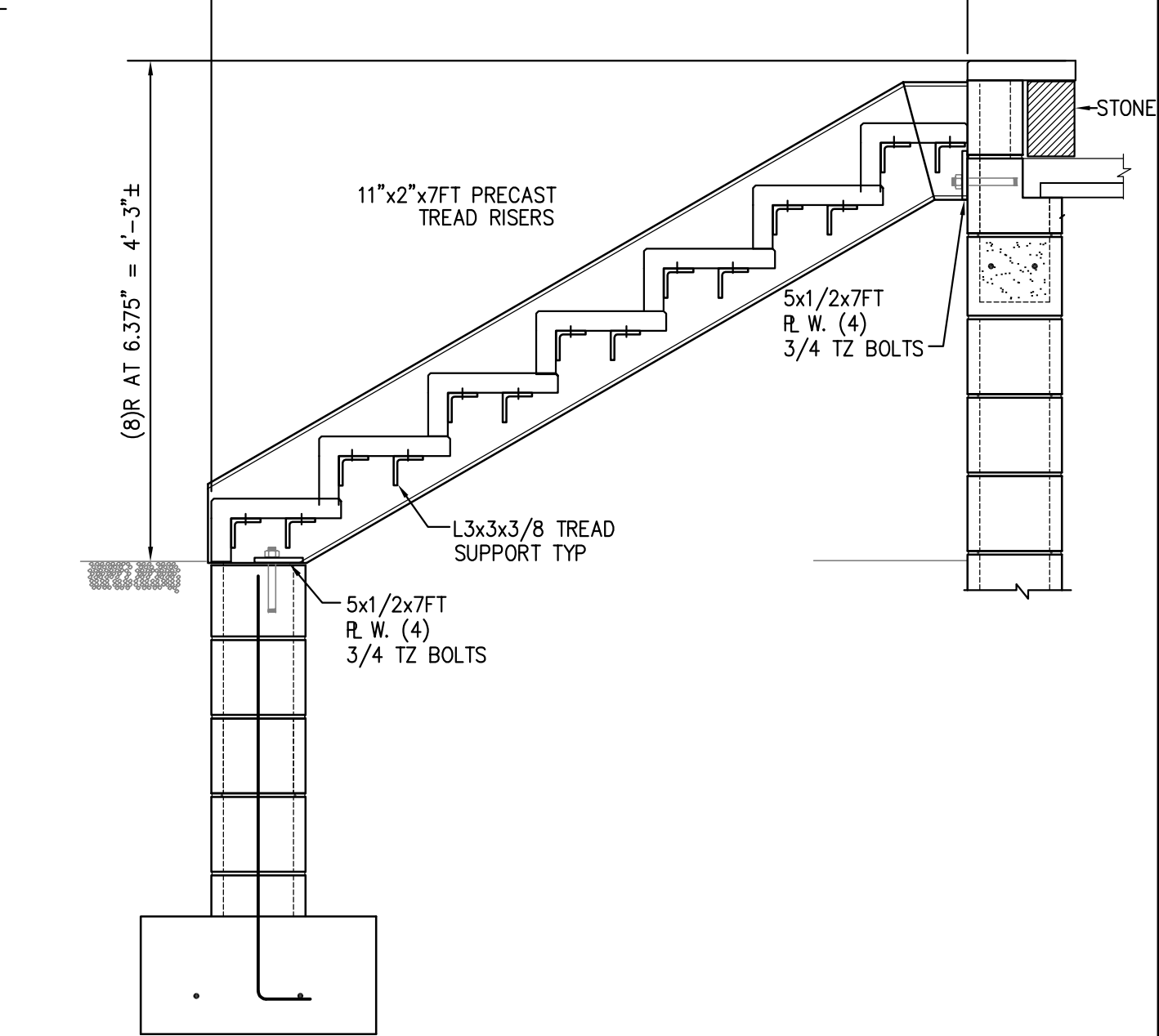
- PATIO FRAMING PLAN NOTES:
- UNLESS OTHERWISE NOTED ON THE DRAWINGS, ROOF DECK SHALL BE 1.5" 18 GAGE B DECK (2)-SPAN CONTINUOUS MINIMUM. DECK SHALL BE GALV TO G90 SPECS.
 - ALL STEEL SHALL BE INSTALLED LEVEL. TOP OF STRUCTURAL STEEL SHALL BE -1.5" FROM TOP OF METAL ROOF DECK LEVATION ON UON ON PLAN AS (-XX).
 - INDICATES SPAN OF STEEL FLOOR/ROOF DECK.
 - LOCATIONS AND DIMENSIONS OF ALL PITS, CURBS, WALLS, PENETRATIONS, ETC. SHALL BE COORDINATED WITH THE ARCHITECTURAL AND M/E/P DRAWINGS. NO PENETRATIONS OTHER THAN THOSE SHOWN ON THIS PLAN OR CHANGES TO THE SIZES AND/OR LOCATION OF THE PENETRATIONS SHOWN, SHALL BE PERMITTED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER. ANY PROPOSED MODIFICATIONS OR ADDITIONAL PENETRATIONS SHALL BE SUBMITTED ON A DETAILED DRAWING WITH DIMENSIONS TO THE STRUCTURAL ENGINEER AND ARCHITECT FOR REVIEW AND APPROVAL.
 - SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



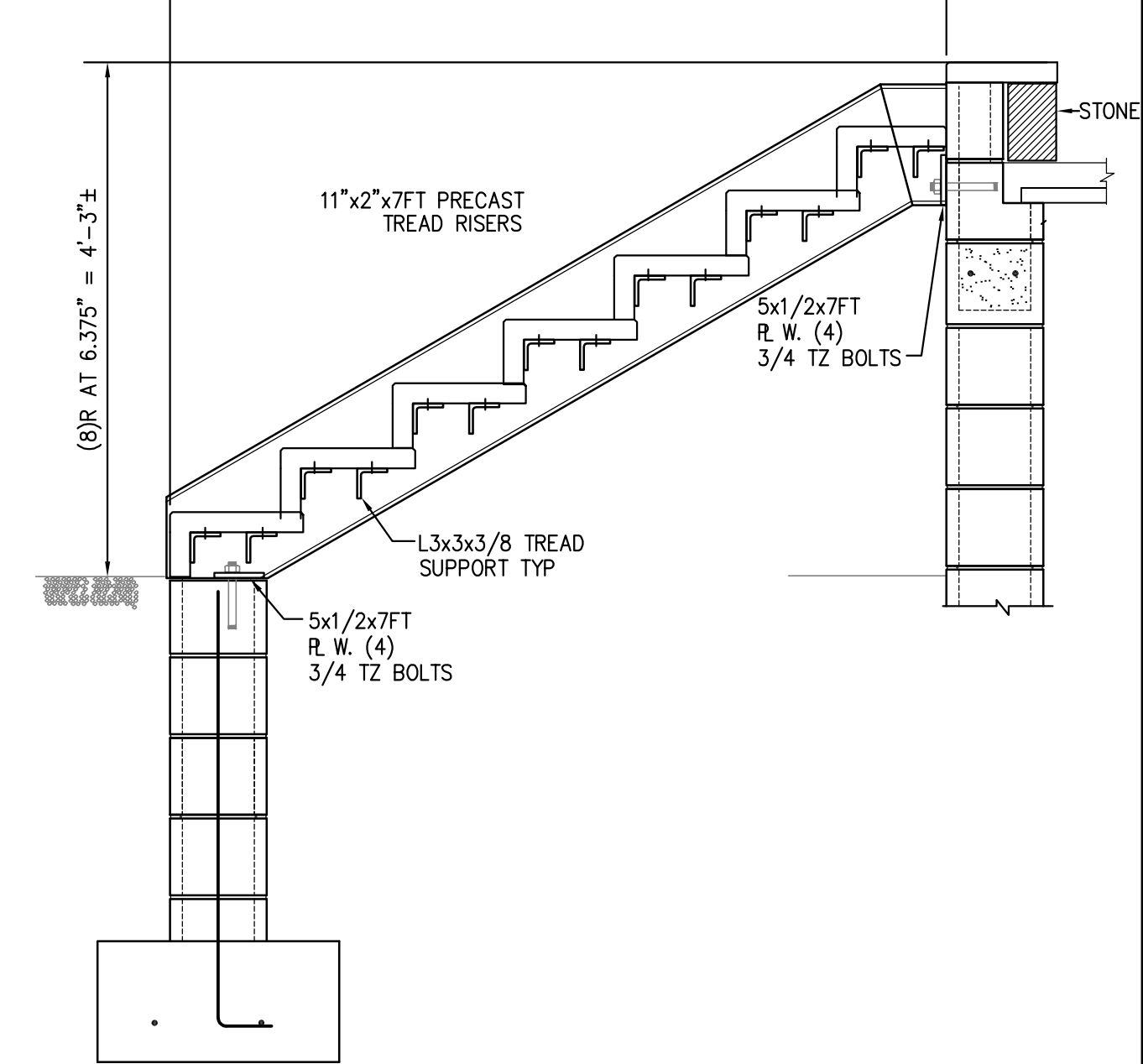
SECTION 1
SCALE: 3/4"=1'-0" S100



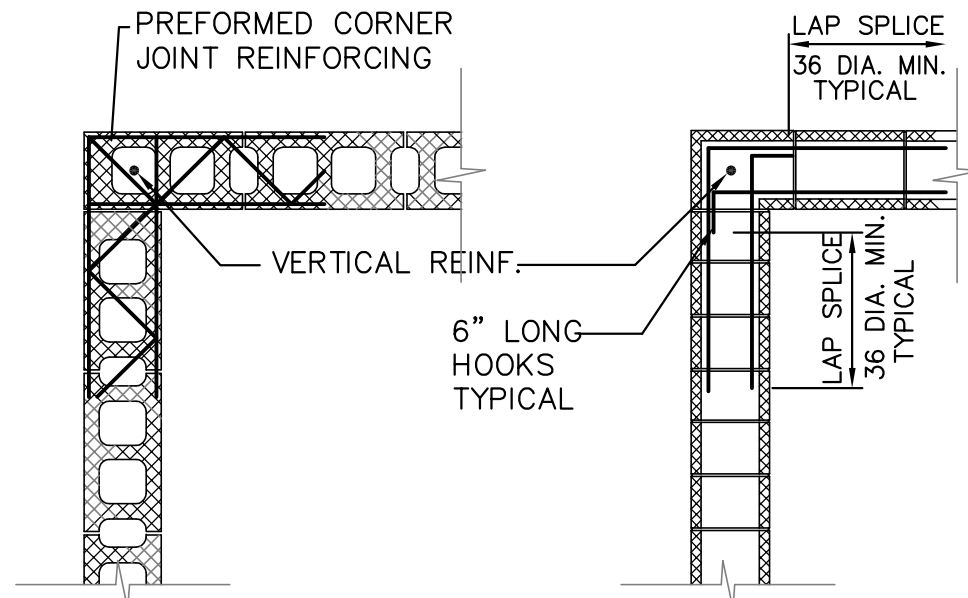
SECTION 2
SCALE: 3/4"=1'-0" S100



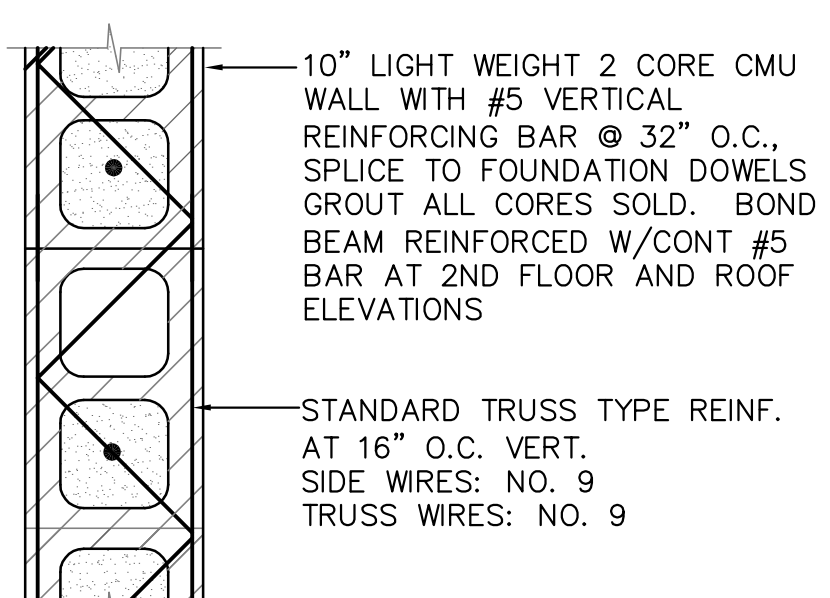
SECTION 3
SCALE: 3/4"=1'-0" S100



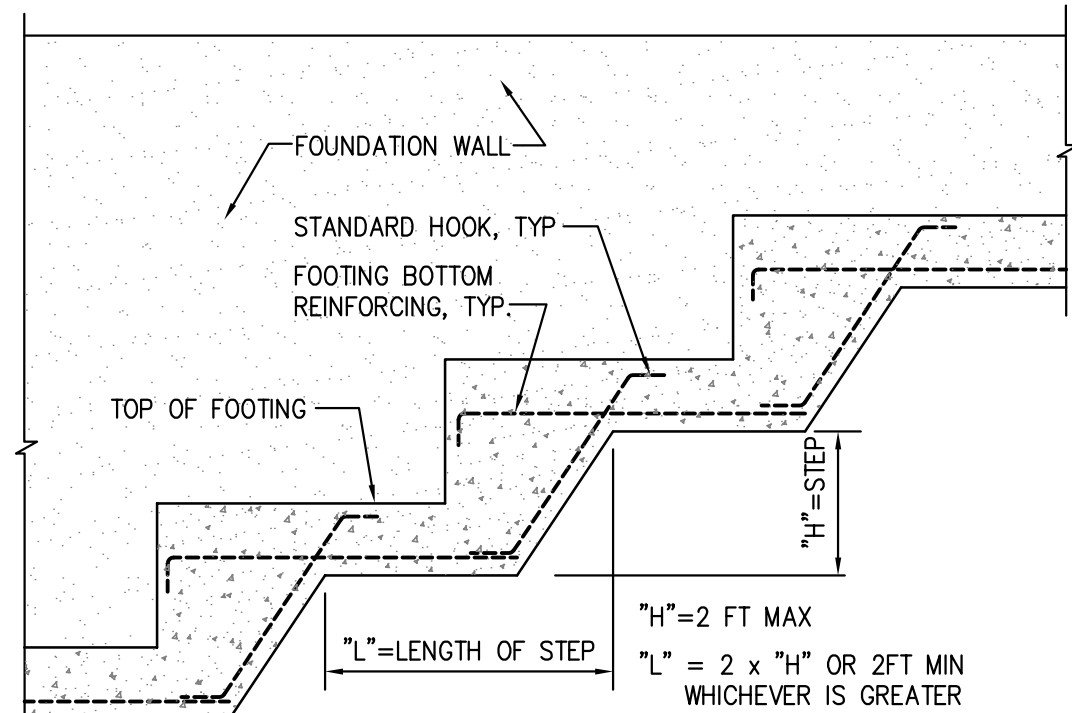
SECTION 4
SCALE: 3/4"=1'-0" S100



MASONRY CORNER REINFORCING DETAIL
SCALE: N.T.S



MASONRY REINFORCING DETAIL
SCALE: N.T.S



STEP FOOTING DETAIL
SCALE: 3/8"=1'-0"

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BINGHAMTON, NY 13901

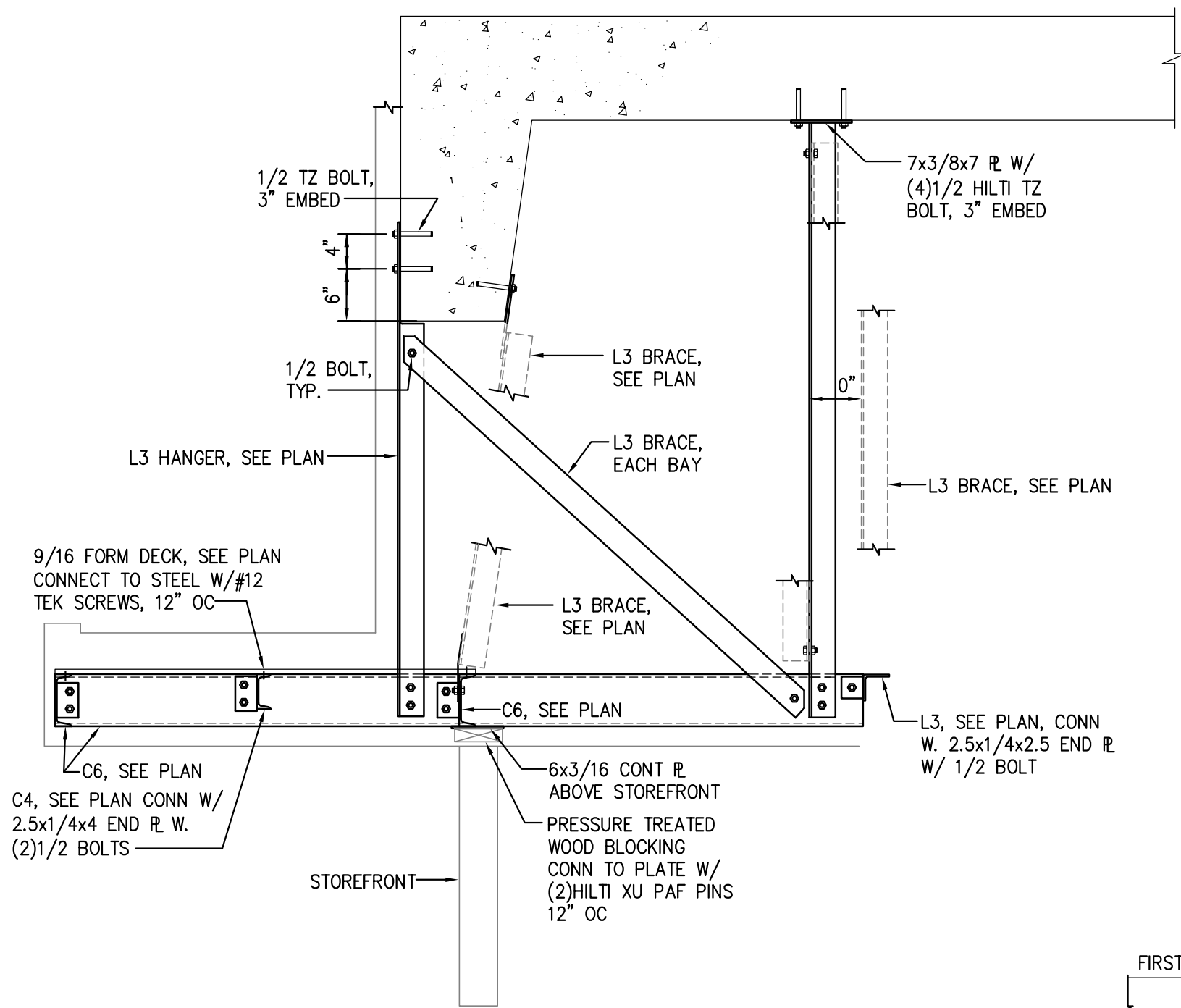
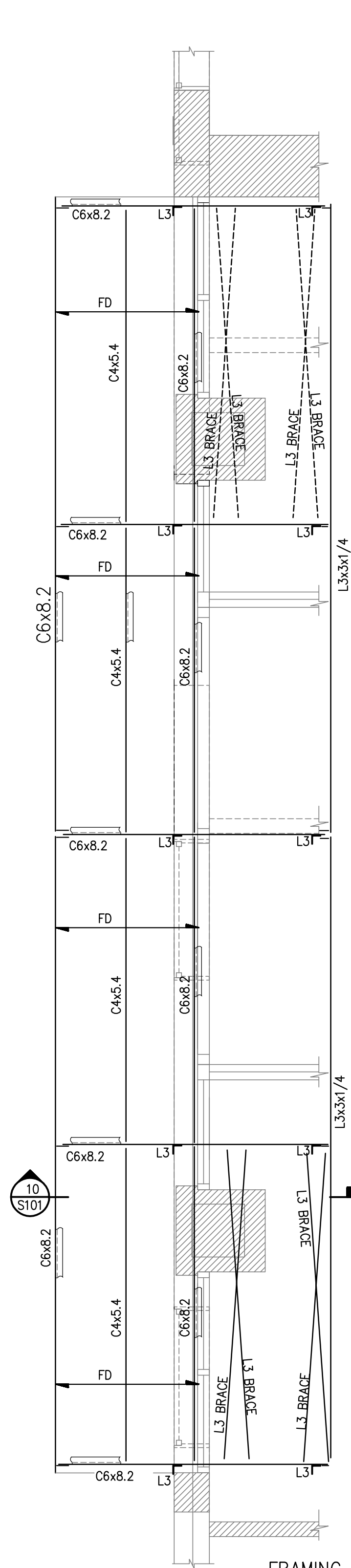
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03	REVISED	4/7/25
02	BID SET	1/24/25
01	PROGRESS SET	7/26/24
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Revisions:		

Job No: FPE0085
Scale: AS SHOWN
Date: 07/26/24
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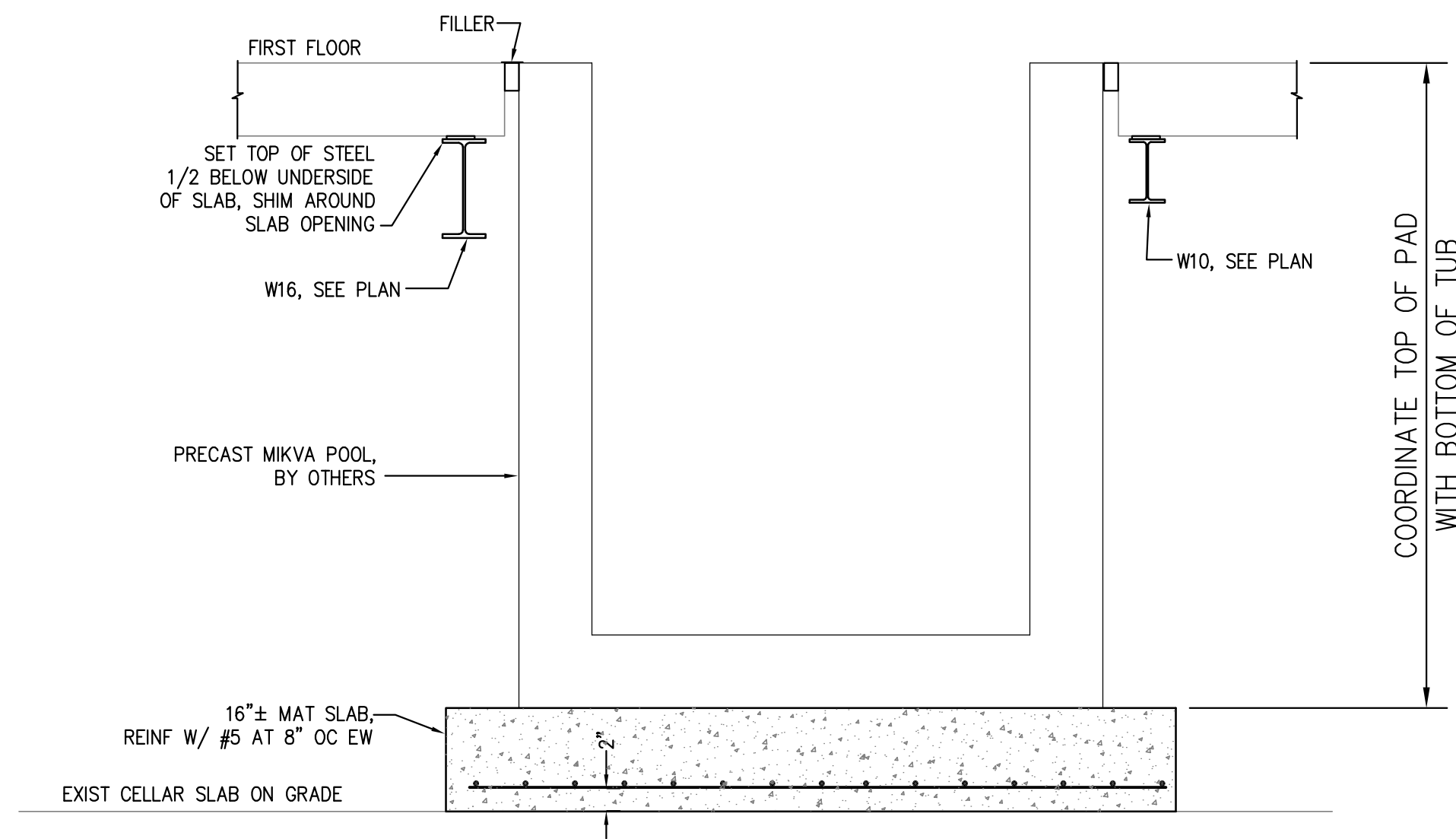
Sheet Title:
**STRUCTURAL PATIO FOUNDATION,
FRAMING, SECTIONS & DETAILS**

Drawing No.:

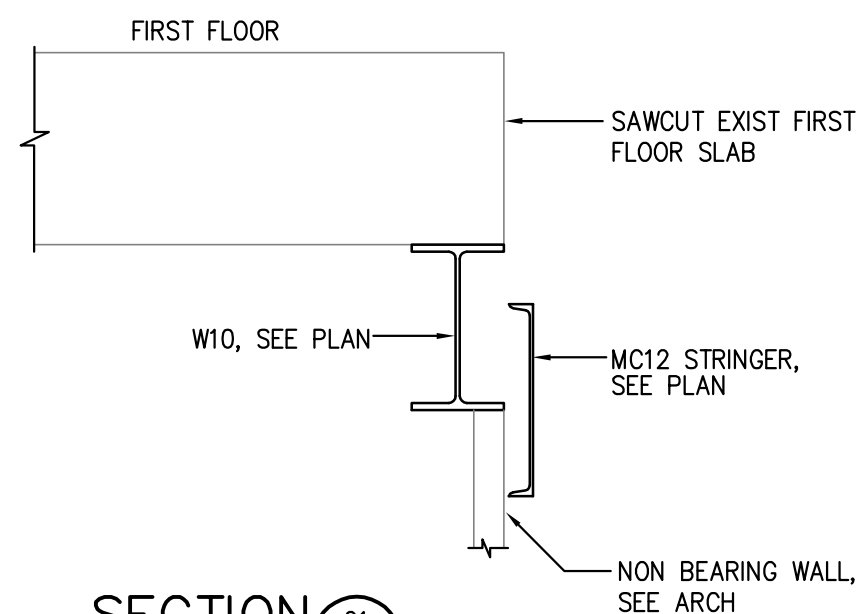
S-100



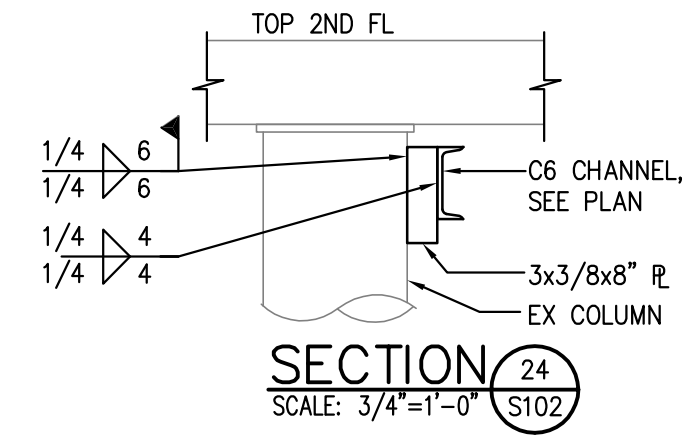
SECTION 10
 SCALE: 3/4"=1'-0" S101



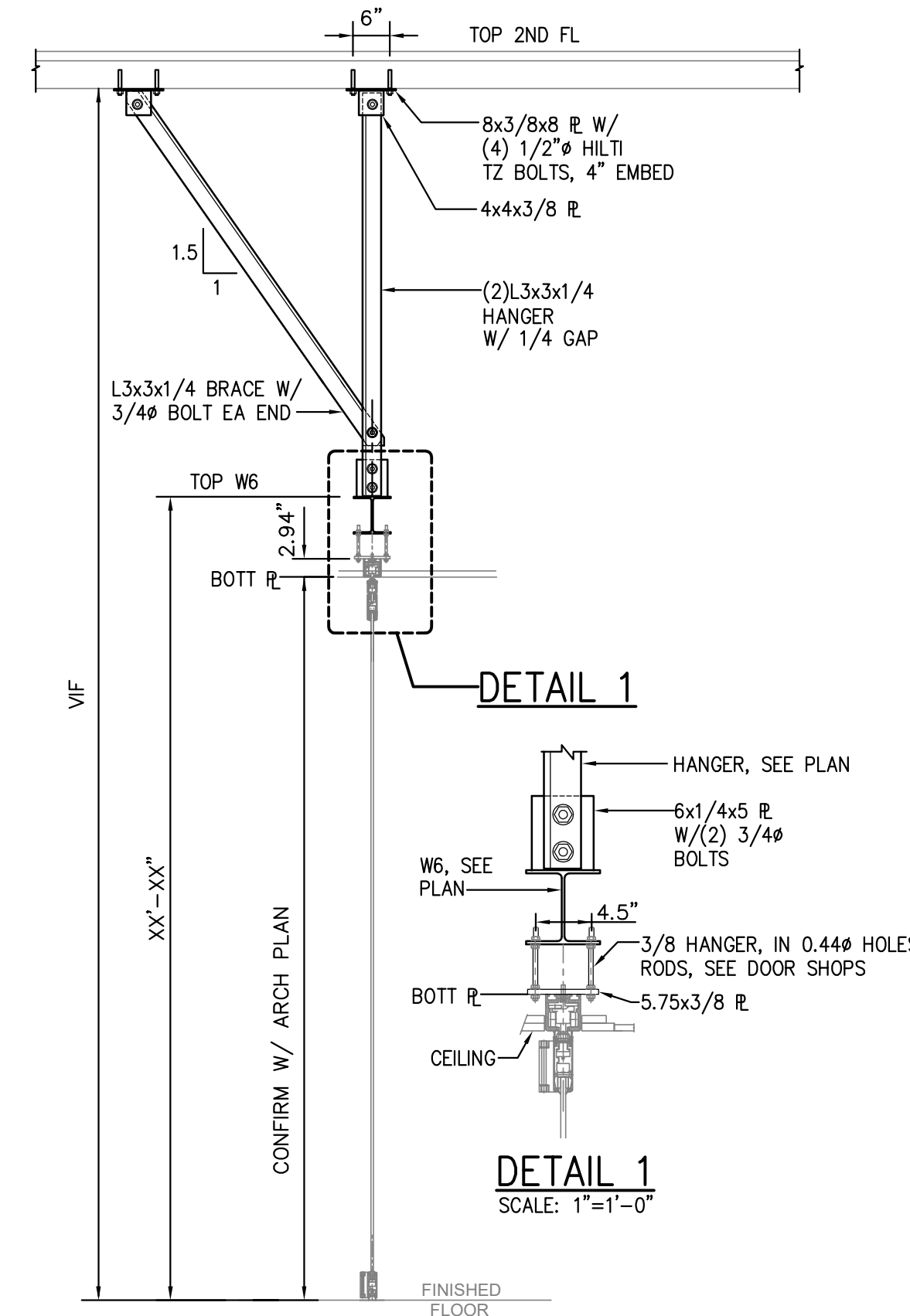
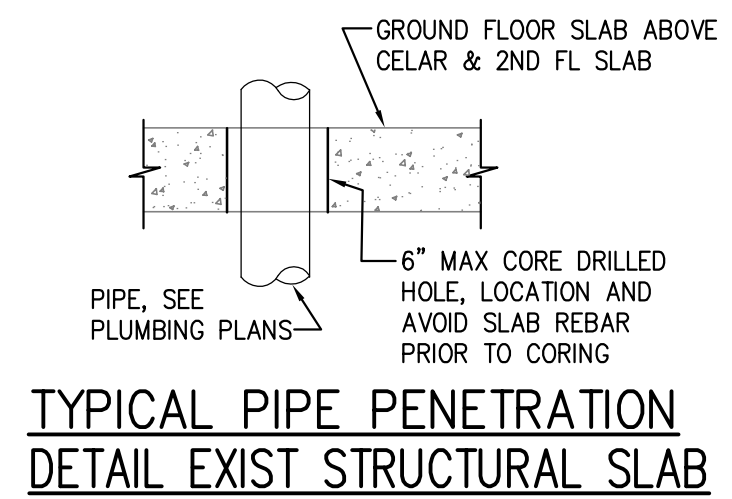
SECTION 22
 SCALE: 1/2"=1'-0" S102



SECTION 21
 SCALE: 1"=1'-0" S102



SECTION 24
 SCALE: 3/4"=1'-0" S102



DETAIL 1
 SCALE: 1"=1'-0"

MOVABLE PARTITION SUPPORT

SECTION 20
 SCALE: 1/2"=1'-0" S102

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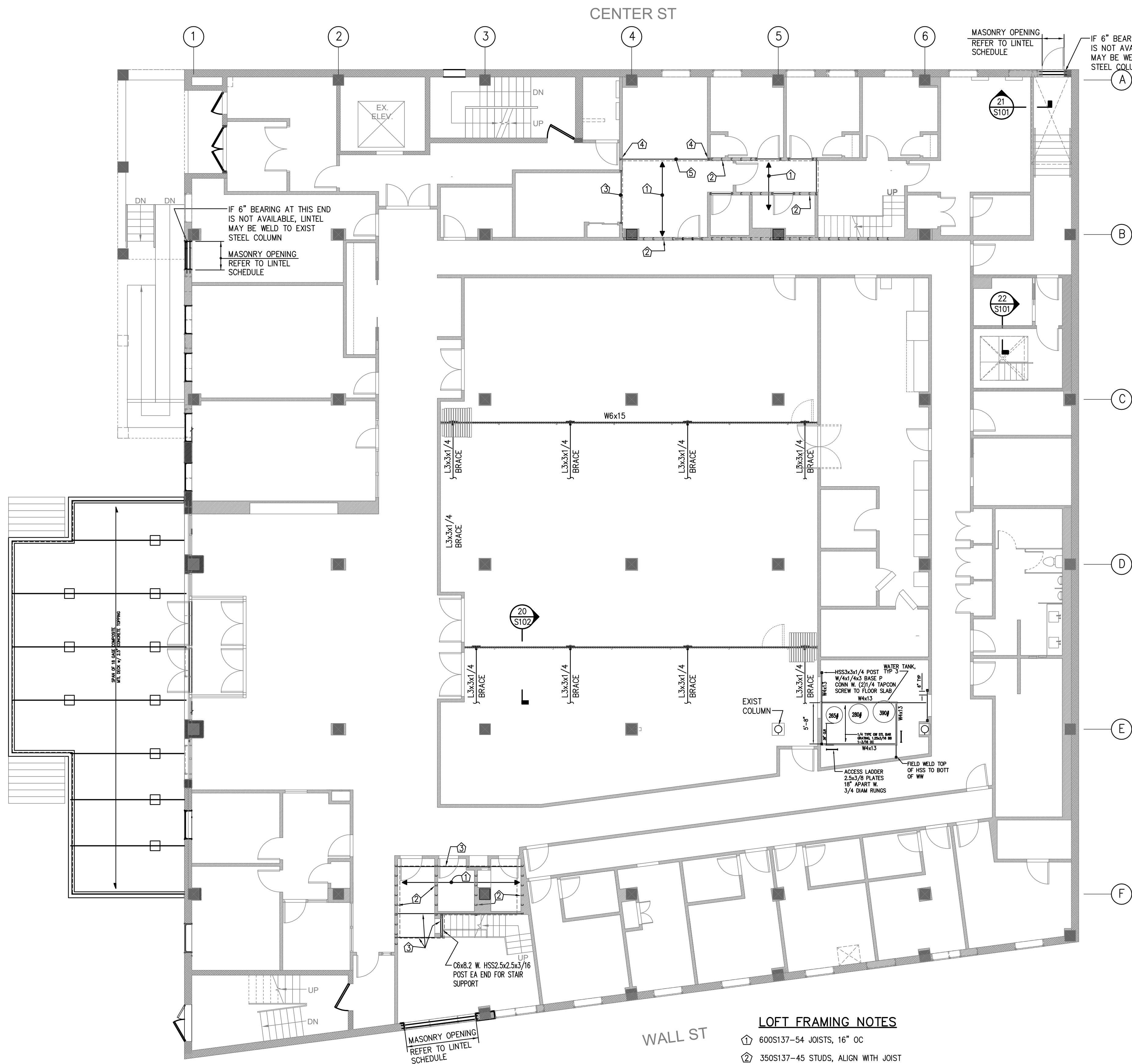
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Sheet Title:
 STRUCTURAL CANOPY FRAMING,
 PLAN, SECTIONS & DETAILS

Drawing No.:

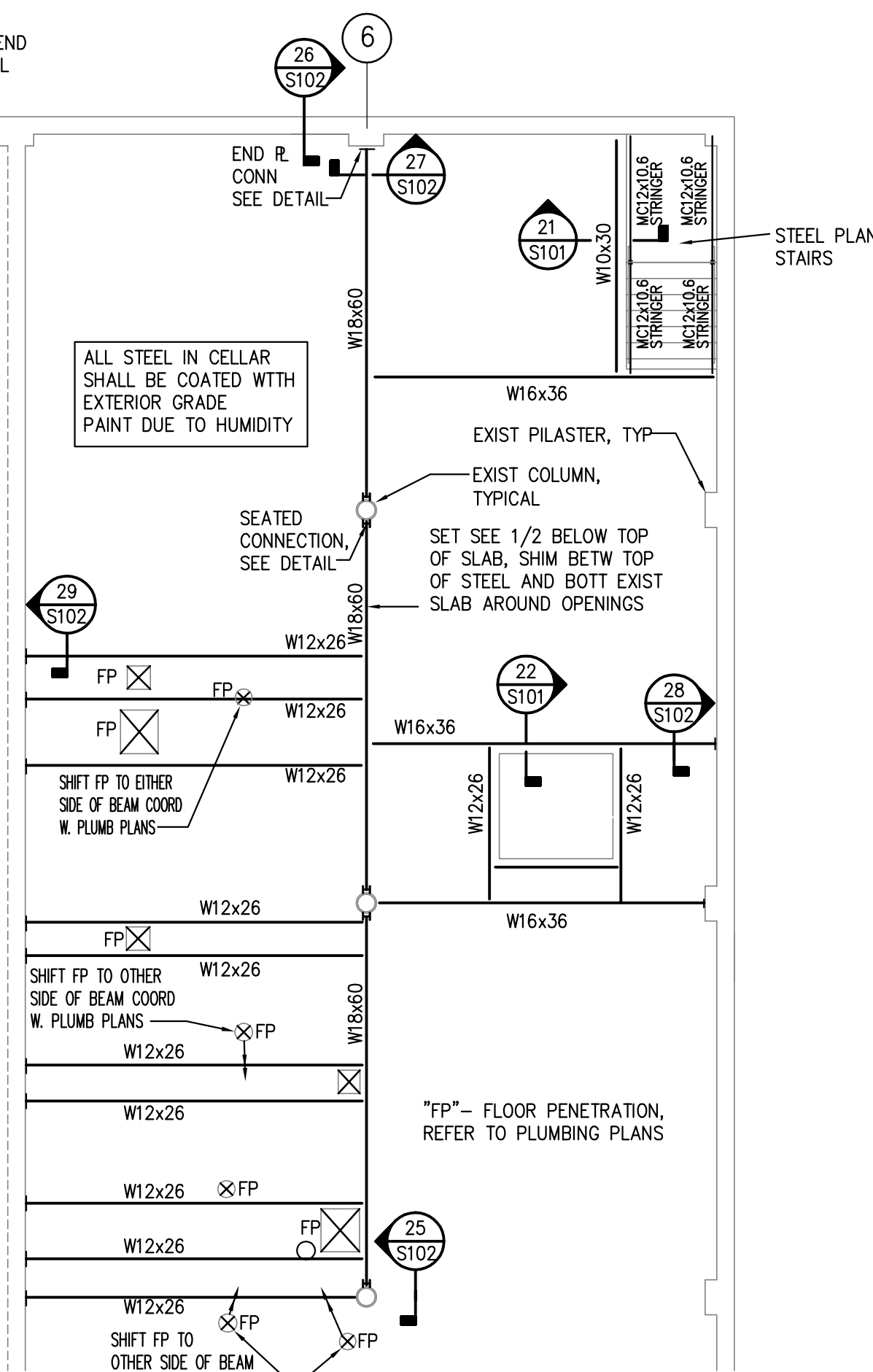
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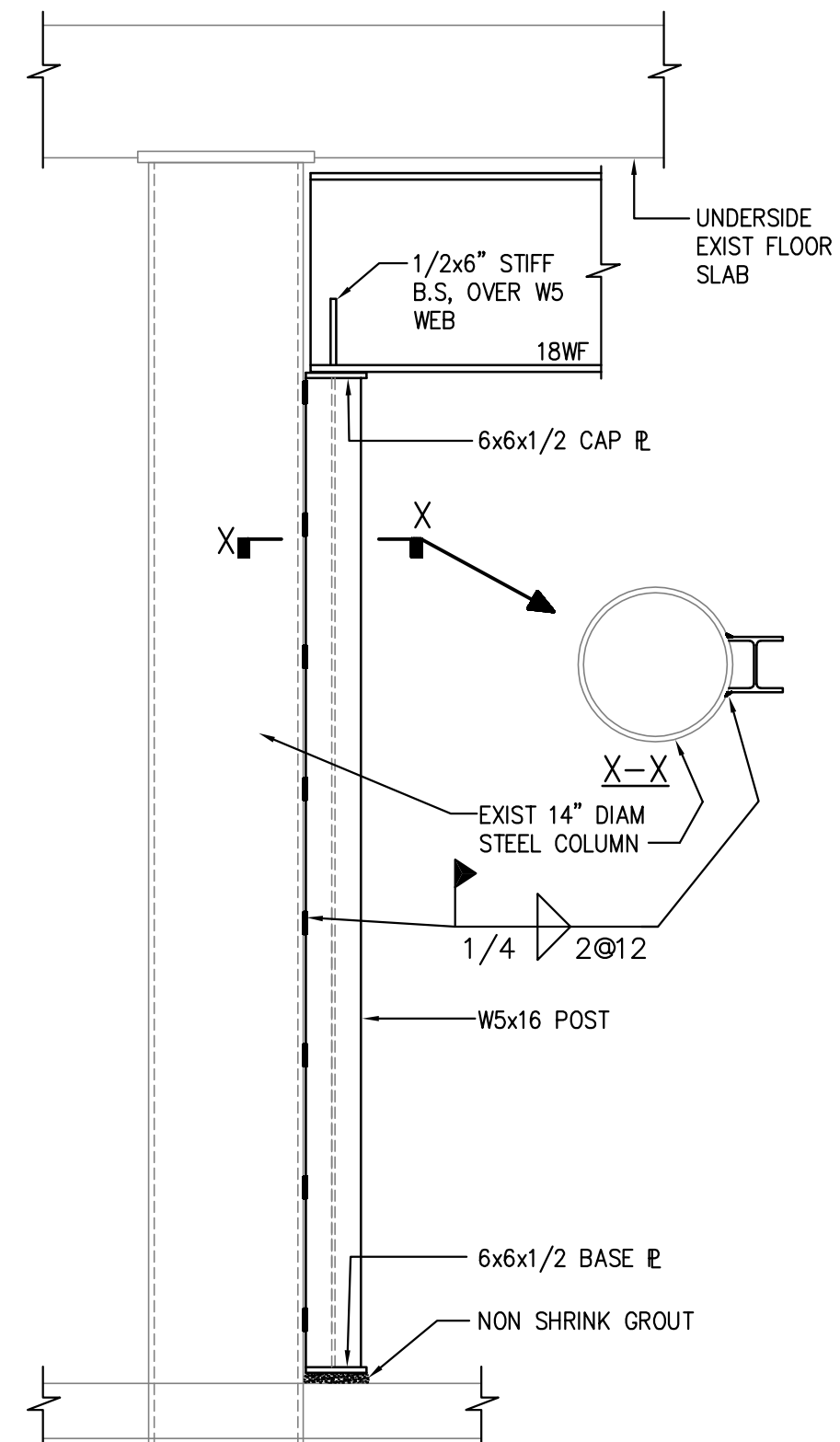
STRUCTURAL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

LOFT FRAMING NOTES

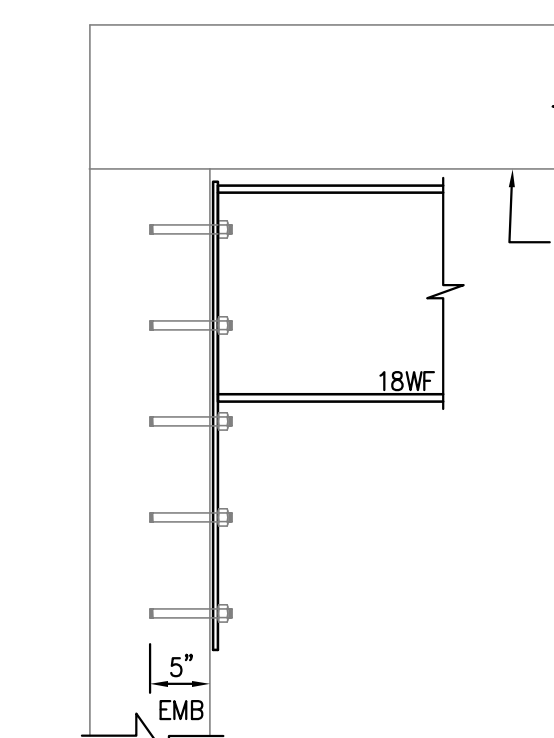
- ① 600S137-54 JOISTS, 16" OC
- ② 350S137-45 STUDS, ALIGN WITH JOIST 16 GAGE TOP & BOTT TRACK
- ③ 600S137-54 HEADER
- ④ (2)350S137-45 STUDS
- ⑤ (2)600S200-97 HEADER W/ 12 GAGE TOP & BOTT



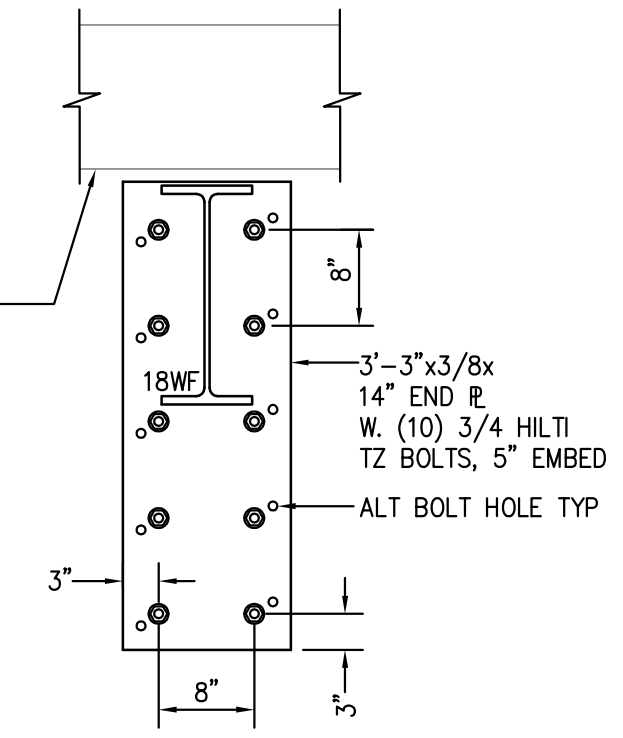
**STRUCTURAL PART
CELLAR PLAN**
SCALE: 1/8" = 1'-0"



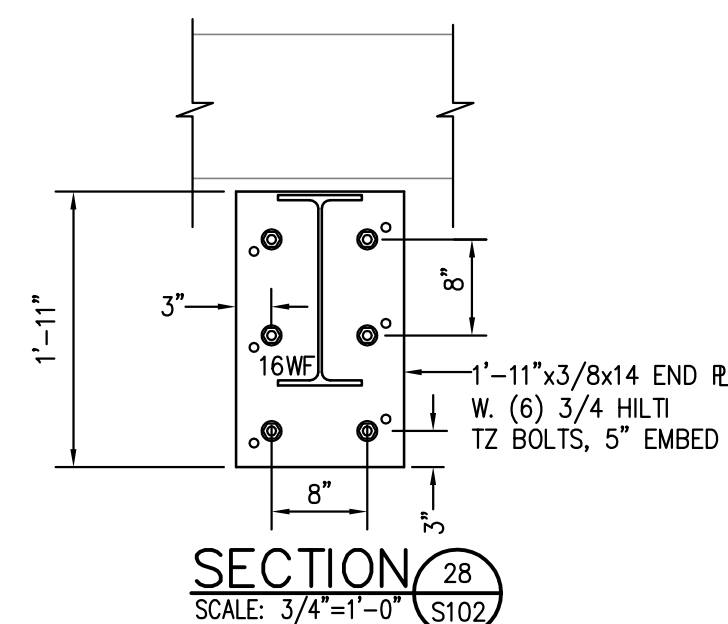
SECTION 25
SCALE: 3/4"=1'-0"



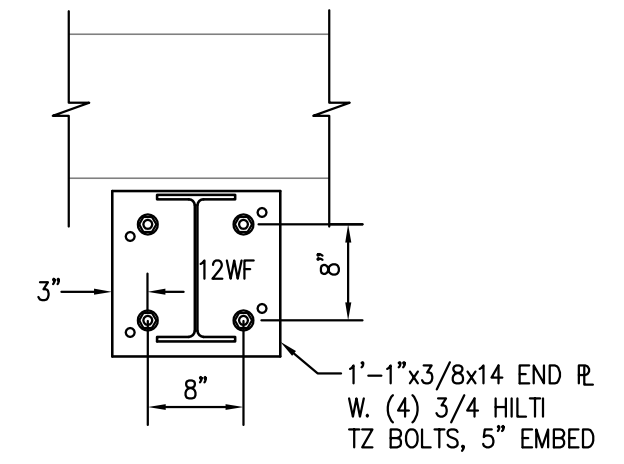
SECTION 26
SCALE: 3/4"=1'-0"



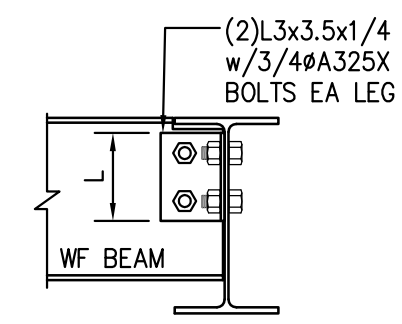
SECTION 27
SCALE: 3/4"=1'-0"



SECTION 28
SCALE: 3/4"=1'-0"



SECTION 29
SCALE: 3/4"=1'-0"



WF BEAM DEPTH	ROWS FASTENERS	CLIP ANGLE "L"
8, 10,	2	5.5"
12, 14,	3	8.5"
14, 16	4	11.5"

TYPICAL STEEL BEAM TO BEAM CONNECTION

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Sheet Title:
**STRUCTURAL FIRST FLOOR
FRAMING, SECTIONS & DETAILS**

Drawing No.:

S-102