

1704.3 STATEMENT OF SPECIAL INSPECTIONS.

THE CONTRACTOR OR BUILDING OWNER SHALL RETAIN AN APPROVED THIRD PARTY AGENCY TO PERFORM SPECIAL INSPECTIONS. SPECIAL INSPECTIONS AND REPORTING SHALL CONFORM TO CHAPTER 17 OF THE 2018 INTERNATIONAL BUILDING CODE.

1704.2.5 SPECIAL INSPECTION OF FABRICATED ITEMS. WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD RESISTING MEMBERS OR ASSEMBLIES IS BEING CONDUCTED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS OF THE FABRICATED ITEMS SHALL BE PERFORMED DURING FABRICATION.

1705.2.1 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.

1705.3 CONCRETE CONSTRUCTION. SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THIS SECTION AND TABLE 1705.3.

TABLE 1705.3
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCE CRITERIA	
	CONTINUOUS	PERIODIC	REFERENCE STANDARD	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL.	-	X	ACI 318 CH. 20, 25.2, 25.3, 26.5.1-26.5.3	1908.4
2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706; b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND c. INSPECT ALL OTHER WELDS.	- - X	X X -	AWS D1.4 ACI 318:26.5.4	-
3. INSPECT ANCHORS CAST IN CONCRETE.	-	X	ACI 318: 17.8.2	-
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	X -	- X	ACI 318: 17.8.2.4 ACI 318: 17.8.2	-
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C 172 ASTM C 31 ACI 318: 26.4.5, 26.12	1908.10
7. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 26.4.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.4.7-26.4.9	1908.9
9. ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: CH. 26.8	-
10. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	--	X	ACI 318: 26.10.1(b)	-

- THE AGENCY SHALL INSPECT THE FORMWORK AND REINFORCING STEEL PLACEMENT FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS AND SHOP DRAWINGS. THE AGENCY SHALL MONITOR ALL STRUCTURAL CONCRETE PLACEMENT FOR CONFORMANCE WITH APPLICABLE ACI REQUIREMENTS.
- SAMPLE FRESH CONCRETE IN ACCORDANCE WITH ASTM C172. MOLD TEST CYLINDERS IN ACCORDANCE WITH ASTM C31.
- THE FOLLOWING NUMBER OF TEST CYLINDERS SHALL BE CAST FOR EACH DAY'S POUR OR EACH 50 CUBIC YARDS, WHICHEVER RESULTS IN MORE TEST CYLINDERS.
 - FOR FOOTINGS AND OTHER STRUCTURAL CONCRETE:
LAB CURED 297 DAYS, 2@28 DAYS
- THE AGENCY WILL MAKE ADDITIONAL TESTS OF IN-PLACE CONCRETE AT THE CONTRACTOR'S EXPENSE WHEN THE TEST RESULTS INDICATE SPECIFIED CONCRETE STRENGTHS HAVE NOT BEEN ATTAINED, AS DIRECTED BY THE STRUCTURAL ENGINEER.

1705.6 SOILS. SPECIAL INSPECTIONS AND TESTS OF EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT AND LOAD-BEARING REQUIREMENTS SHALL BE PERFORMED IN ACCORDANCE WITH THIS SECTION AND TABLE 1705.6. THE APPROVED GEOTECHNICAL REPORT AND THE CONSTRUCTION DOCUMENTS PREPARED BY THE REGISTERED DESIGN PROFESSIONALS SHALL BE USED TO DETERMINE COMPLIANCE. DURING FILL PLACEMENT, THE SPECIAL INSPECTOR SHALL VERIFY THAT PROPER MATERIALS AND PROCEDURES ARE USED IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT.

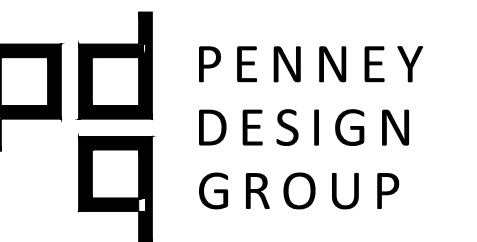
TABLE 1705.6
REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION	
	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY, BY INSTALLATION OF RAMMED AGGREGATE PIERS.	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X

1705.4 MASONRY CONSTRUCTION. SPECIAL INSPECTIONS AND TESTS OF LEVEL C MASONRY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE PROGRAM REQUIREMENTS OF TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6.

ABBREVIATION WORD OR PHRASE

ASD	ALLOWABLE STRESS DESIGN
ACI	AMERICAN CONCRETE INSTITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
AWS	AMERICAN WELDING SOCIETY
ARCH	ARCHITECT
@	AT RATE OF
BP	BASE PLATE
B OR BOT	BOTTOM
BM	BEAM
CANT	CANTILEVER
CIP	CAST-IN-PLACE
CL	CENTERLINE
CLR	CLEAR
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CONT	CONTINUOUS
DIA	DIAMETER
DIM	DIMENSION
DWLS	DOWELS
DWG	DRAWING
EA	EACH
EE	EACH END
EF	EACH FACE
ES	EACH SIDE
EW	EACH WAY
EL	ELEVATION
EQ	EQUAL
EX OR (E)	EXISTING
FT	FEET
GALV	GALVANIZED
GA	GAGE
GR	GRADE
HSS	HOLLOW STRUCTURAL SECTION
IN	INCH
INFO	INFORMATION
IBC	INTERNATIONAL BUILDING CODE
JT	JOINT
K	KIP (1000 POUNDS)
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
LW	LIGHTWEIGHT
LRFD	LOAD & RESISTANCE FACTOR DESIGN
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MFR	MANUFACTURER
MATL	MATERIAL
MAX	MAXIMUM
MIN	MINIMUM
NTS	NOT TO SCALE
NO OR #	NUMBER
OC	ON CENTER
LB OR #	POUND
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
REF	REFERENCE
REINF	REINFORCE OR REINFORCEMENT
SECT	SECTION
SF	STEP FOOTING
SIM	SIMILAR
SOG	SLAB-ON-GRADE
SQ	SQUARE
STD	STANDARD
STL	STEEL
SDI	STEEL DECK INSTITUTE
STIFF	STIFFENER
T	TOP
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V OR VERT	VERTICAL
WWR	WELDED WIRE REINFORCEMENT
W/	WITH



ARCHITECTURE | PLANNING | INTERIORS

8120 Woodmont Avenue
Suite 750
Bethesda, Maryland 20814
p.301.979.7600
f.301.710.6384

www.penneydesigngroup.com



Tarantino Engineering
Consultants, PC
8115 Maple Lawn Blvd
Suite 350
Fulton, MD 20759
410-921-7678
www.tarantinoec.com

CMA Hyundai Winchester
Addition & Alteration
3951 Valley Pike
Winchester, VA

CMA

3951 Valley Pike
Winchester, VA

I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the Commonwealth of Virginia, license number: 51384, expiration date: 12-31-2023.

Bid Set	2023.07.27
No. Issue / Revision	Date
Drawn By:	HAG
Checked By:	MWD
Plot Date:	July 28, 2023

Sheet Number

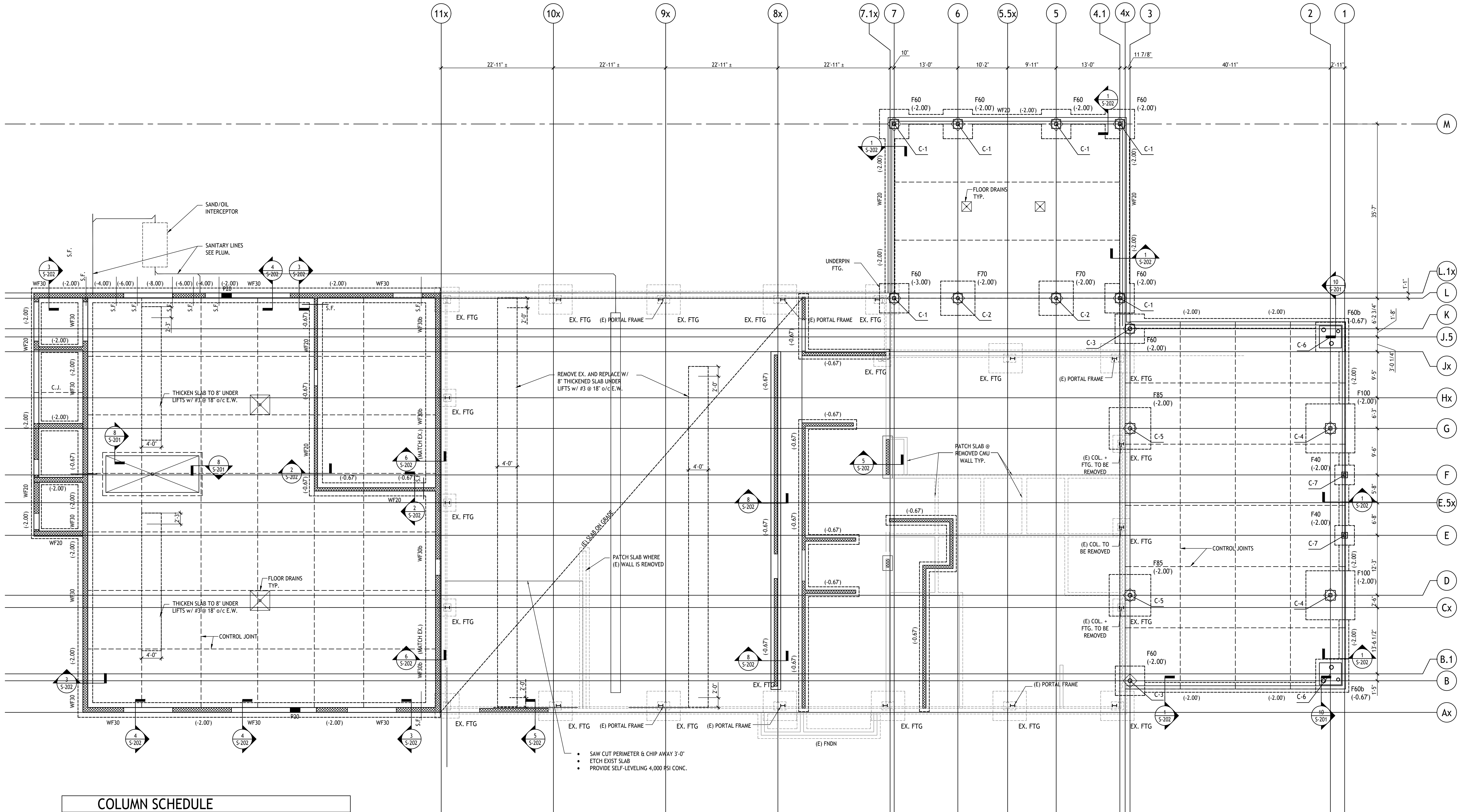
S-003

Sheet Title

SPEC. INSPECT.
& ABBREV.

Project Number
23-0455-CMA HYUNDAI-PDG

23-0455-CMA Hyundai
Winchester-PDG



- SAW CUT PERIMETER & CHIP AWAY 3'-0"
- ETCH EXIST SLAB
- PROVIDE SELF-LEVELING 4,000 PSI CONC.

COLUMN SCHEDULE										
COLUMN NUMBER	C-1	C-2	C-3	C-4	C-5	C-6	C-6.1	C-6.2	C-6.3	C-7
LEVEL										
SHOW RECAP										
ROOF VARIES										
SERVICE ROOF VARIES										
PORTAL FRAME										
FF, ±0'-0"										
TOP OF										
BASE PLATES	1' x 16" x 16"	11' x 16" x 16"	11' x 16" x 16"	11' x 16" x 16"	11' x 16" x 16"	2' x 16" x 16"				11' x 16" x 16"
CONC. PIERS	20' x 20' CONC. W/ #4 @ 12" O.C. TRANSVERSE, 3-#5 @ 12" O.C. LONGITUDINAL	20' x 20' CONC. W/ #4 @ 12" O.C. TRANSVERSE, 3-#5 @ 12" O.C. LONGITUDINAL	22' x 22' CONC. W/ #4 @ 12" O.C. TRANSVERSE, 3-#5 @ 12" O.C. LONGITUDINAL	24' x 24' CONC. W/ #4 @ 12" O.C. TRANSVERSE, 3-#5 @ 12" O.C. LONGITUDINAL	24' x 24' CONC. W/ #4 @ 12" O.C. TRANSVERSE, 3-#5 @ 12" O.C. LONGITUDINAL	2' x 16" x 16" CONC. W/ #4 @ 12" O.C. TRANSVERSE, 3-#5 @ 12" O.C. LONGITUDINAL				20' x 20' CONC. W/ #4 @ 12" O.C. TRANSVERSE, 3-#5 @ 12" O.C. LONGITUDINAL
SEE PLAN FOR LOCATION										

A FOUNDATION PLAN 1/8" = 1'-0"

- NOTES
1. REFERENCE ELEVATION MEASURED FROM FIRST FLOOR DATUM = (-0.00') ACTUAL ELEVATION - XX.XX'
 2. INSTALL NEW 5" THICK CONCRETE SLAB (f_c = 4000 PSI) REINFORCED WITH 6x6 - W2.9/W2.9 WELDED WIRE REINFORCING OVER 20 MIL. POLY OVER 4" #57 STONE. SEE ARCH DWGS FOR SLOPE. SEE DETAILS ON S201 FOR SLAB CONSTRUCTION AND JOINT TYPES. PROVIDE CONTROL JOINTS AT 15'-0" O.C. MAX. PROVIDE 3/8" EXPANSION JOINT AT ALL NEW SLAB TO WALL INTERFACES. SEE DETAILS 1 AND 2 ON S201 FOR SLAB DETAILS. SLOPE SLAB AND COORDINATE TRENCH DRAINS PER ARCH DRAWINGS.
 3. SOIL BEARING VALUE OF 2,000 PSF AND 2,000 PSF FOR CONTINUOUS FOOTINGS AND SPREAD FOOTINGS, RESPECTIVELY. SHALL BE VERIFIED IN FIELD PRIOR TO CONSTRUCTION BY A VIRGINIA REGISTERED GEOTECHNICAL ENGINEER.
 4. TOP OF FOOTING ELEVATIONS SHOWN ON PLAN ARE ELEVATED FROM TOP OF SLAB.
 5. PROVIDE BACKER ROD AND SEALANT OVER ALL INTERIOR EXPANSION JOINTS.

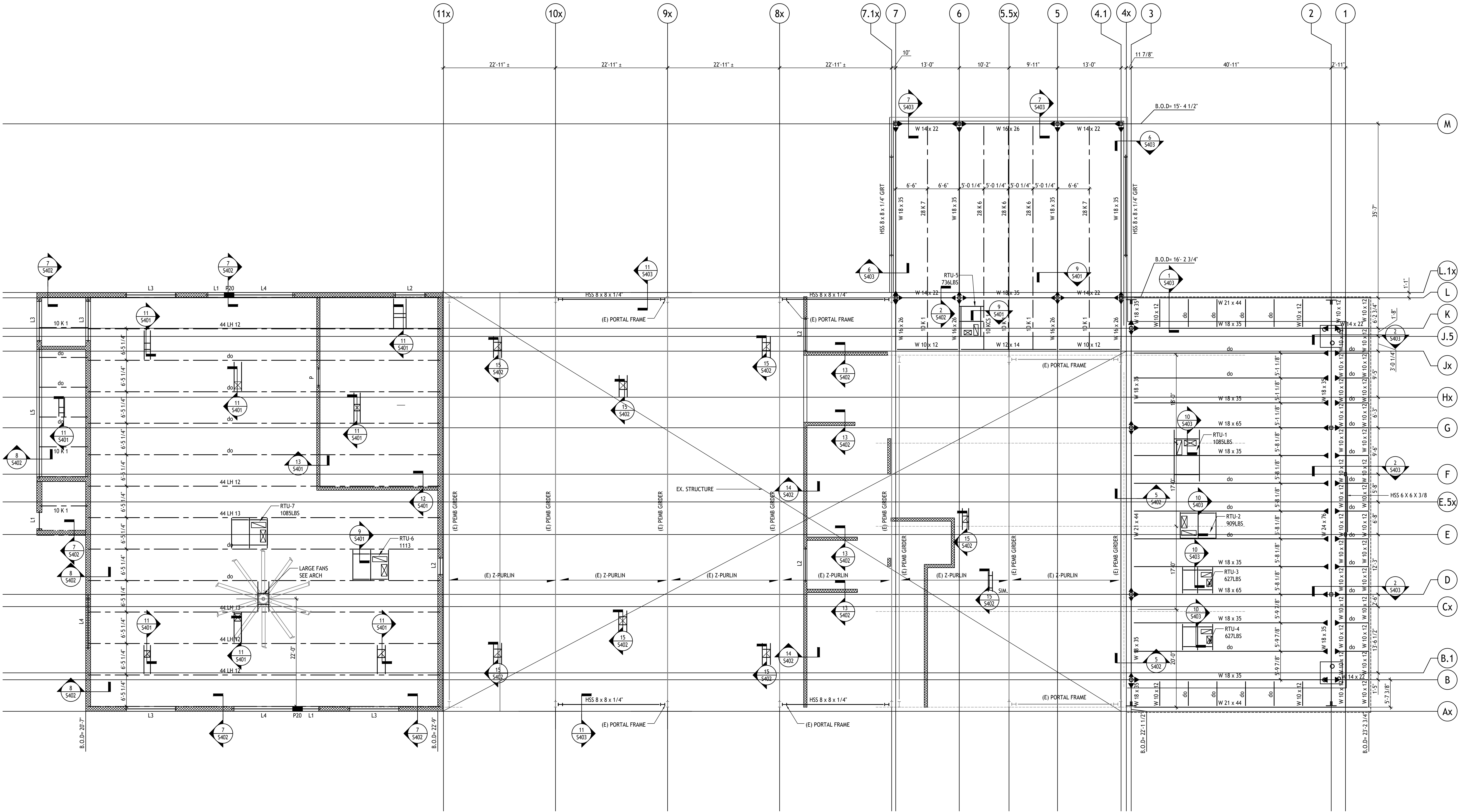
COLUMN FOOTING SCHEDULE			
MARK	SIZE	THICKNESS	REINFORCING EACH WAY (BOTTOM)
F40	4'-0" x 4'-0"	12"	(5) #5
F60	6'-0" x 6'-0"	12"	(7) #5
F60b	6'-0" x 6'-0"	24"	(7) #5
F70	7'-0" x 7'-0"	14"	(8) #6
F85	8'-6" x 8'-6"	14"	(9) #6
F10	10'-0" x 10'-0"	16"	(11) #6

WALL FOOTING SCHEDULE			
MARK	WIDTH	THICKNESS	REINFORCING
WF2.0	2'-0"	12"	BOTTOM: #5 @ 12" O.C. TRANSVERSE, 2-#5x CONT LONGITUDINAL
WF3.0	3'-0"	12"	BOTTOM: #5 @ 12" O.C. TRANSVERSE, 3-#5x CONT LONGITUDINAL
WF3.0b	3'-0"	20"	BOTTOM: #5 @ 12" O.C. TRANSVERSE, 3-#5x CONT LONGITUDINAL

- NOTES
1. CENTER WALL ON FOOTINGS LI N.O.
 2. STEEP FOOTINGS 2 HORIZONTAL, 1 VERTICAL PER TYPICAL DETAIL.
 3. PROVIDE WALL DOWELS IN FOOTINGS PER DETAILS.

Bid Set: 2023.07.27
No. Issue / Revision: HAG
Drawn By: MWD
Checked By: MWD
Plot Date: July 28, 2023

Sheet Number
S-100
Sheet Title
FOUNDATION PLAN



LINTEL SCHEDULE		
MARK	SIZE	REMARKS
L-1	L4 x 3 1/2 x 5/16" FOR EACH 4" THICKNESS OF WALL	FOR OPENINGS UP TO 5'-0"
L-2	L6 x 3 1/2 x 5/16" FOR EACH 4" THICKNESS OF WALL	FOR OPENINGS 5'-1" TO 10'-0"
L-3	W 14 x 22 + 5/16" SUS. PLATE w/ 1/4" HANGERS @ 16" o/c.	AS SHOWN
L-4	W 16 x 26 + 5/16" SUS. PLATE w/ 1/4" HANGERS @ 16" o/c.	AS SHOWN
L-5	W 21 x 48 + 5/16" SUS. PLATE w/ 1/4" HANGERS @ 16" o/c.	AS SHOWN
p	8" PRECAST CONC. WITH #5 T + B FOR EACH 4" W/TH OF MAS.	AS SHOWN

USE L-1 U.N.O.
ALL OPENINGS IN WALLS AND PARTITIONS ARE TO BE PROVIDED WITH LINTELS. LINTELS SHALL BE STRUCTURAL STEEL OR PRECAST CONCRETE AS DIRECTED. ALL LINTELS SHALL HAVE A 8" MINIMUM BEARING UNLESS OTHERWISE NOTED ON DRAWINGS AND SHALL BE SET IN FULL BED OF MORTAR. CONTRACTOR SHALL SHORE ALL LINTELS AS REQUIRED TO PREVENT ROTATION DURING CONSTRUCTION AND SHALL PAY PARTICULAR ATTENTION TO ECCENTRICALLY LOADED LINTELS. CONTRACTOR SHALL COORDINATE SIZE, TYPE AND LOCATION OF LINTEL WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

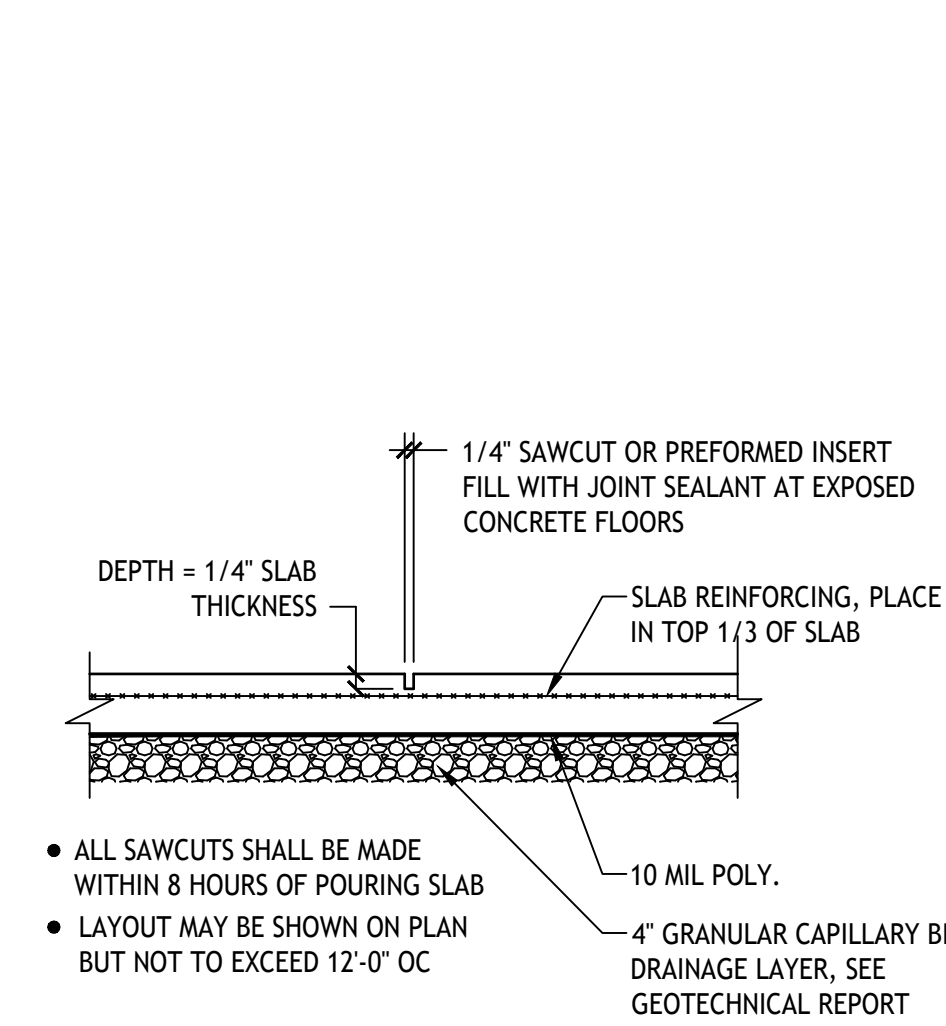
ALL BEAM LINTELS LARGER THAN W 8 BEAMS TO HAVE ADJUST MASONRY ANCHORS ON EACH FACE OF WEBS SPACED AT 16" o/c.

A ROOF FRAMING PLAN

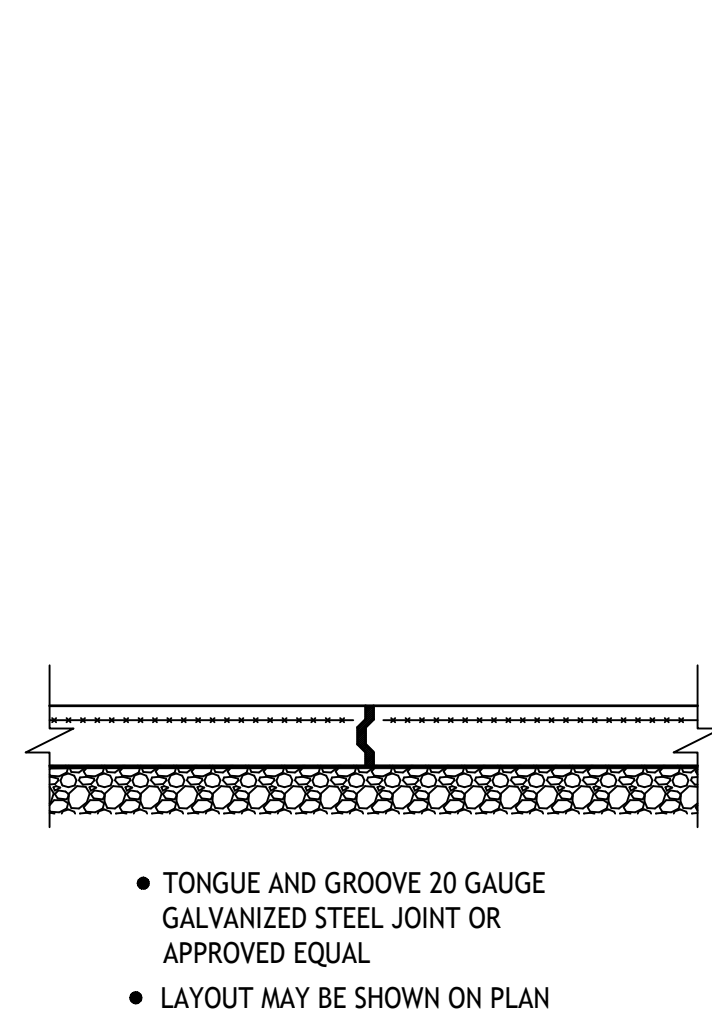
- PLAN NOTES**
- REFERENCE TOP OF STEEL ELEVATION MEASURED FROM FIRST FLOOR DATUM = (+XXX'-X") AT LOW POINTS.
 - ELEVATIONS ARE NOTED AS FOLLOWS, MEASURED FROM THE REFERENCE ELEVATION (+XX'-X") INDICATES TOP OF STEEL BOTTOM OF METAL DECK, STRUCTURE SLOPE TO LOW POINTS AT DRAINS. COORDINATE WITH ARCHITECTURAL ROOF PLANS.
 - NOTATIONS ON THE PLANS DESIGNATE THE FOLLOWING:
 - BEAM TO COLUMN OR GIRDER FULLY DEVELOPED MOMENT CONNECTION.
 - STRUCTURAL ROOF SHALL BE 1 1/2" TYPE B x 22 GAUGE GALVANIZED METAL DECK (2 SPAN MIN.) UNO. SEE S001 FOR DECK PROPERTIES.
 - REFER TO S401, S402 & S403 FOR ROOF DETAILS.
 - REFER TO S401 FOR CONNECTION DETAILS.
 - INDICATES FOOTPRINT OF MECHANICAL UNIT.
 - CONTRACTOR SHALL COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. COORDINATE ALL ROOF PENETRATIONS AND SHAFTS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
 - JOISTS DESIGNED USING 30 D.L. + 30. S.L. + WIND UP LIFT.
 - JOISTS IN SHOP WERE SELECTED WITH CRITERIA IN NOTE 9 PLUS AN ADDITIONAL 2,000 LB LIVE LOAD LOCATED ANYWHERE ON THE BOTTOM CHORD IN ACCORDANCE WITH IBC 1607.1. LOCALIZED BOTTOM CHORD BEND CHECKS SHALL BE PERFORMED BY THE JOIST MANUFACTURER. ALL JOIST DESIGNS ARE USING THE ASD METHOD.

Bid Set	2023.07.27
No. Issue / Revision	Date
Drawn By:	HAG
Checked By:	MWD
Plot Date:	July 28, 2023

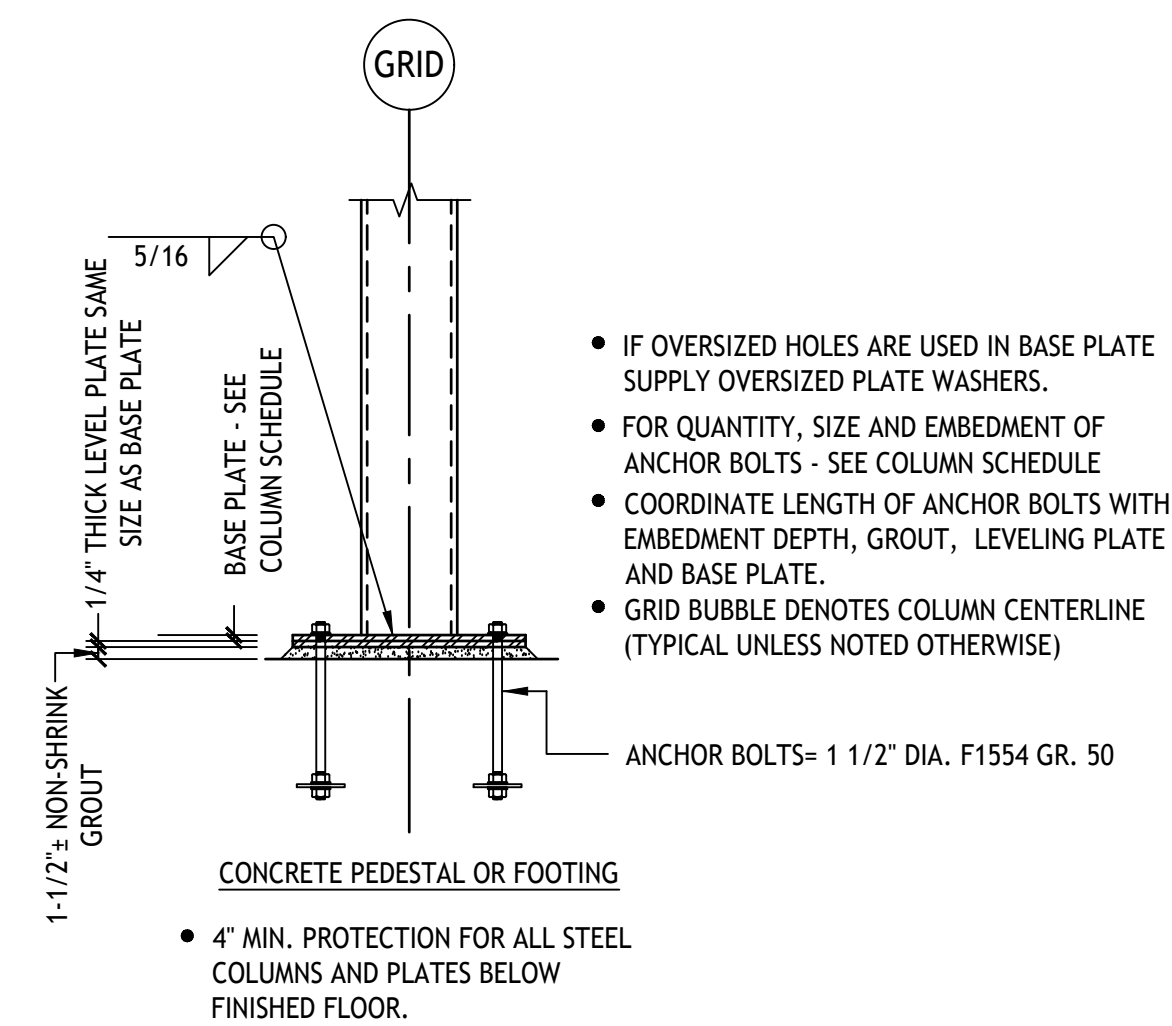
Sheet Number
S-102
Sheet Title
ROOF FRAMING PLAN



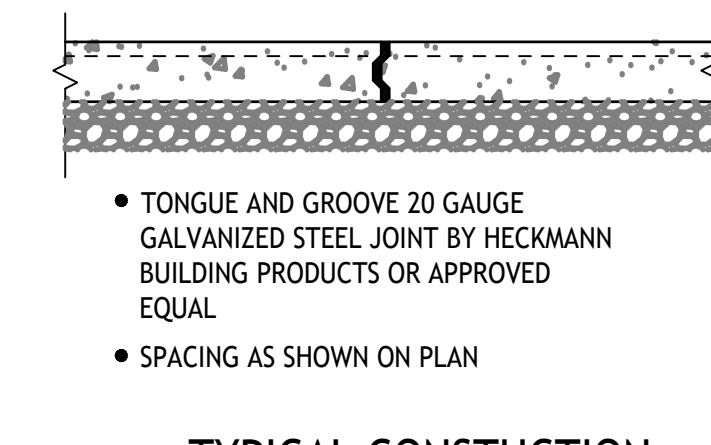
1 TYP SLAB ON GRADE CONTROL JOINT
SCALE: 3/4" = 1'-0"



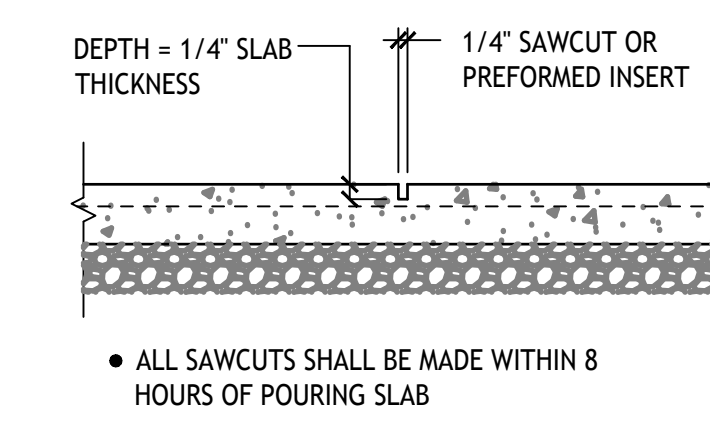
2 TYP SLAB ON GRADE CONSTRUCTION JOINT
SCALE: 3/4" = 1'-0"



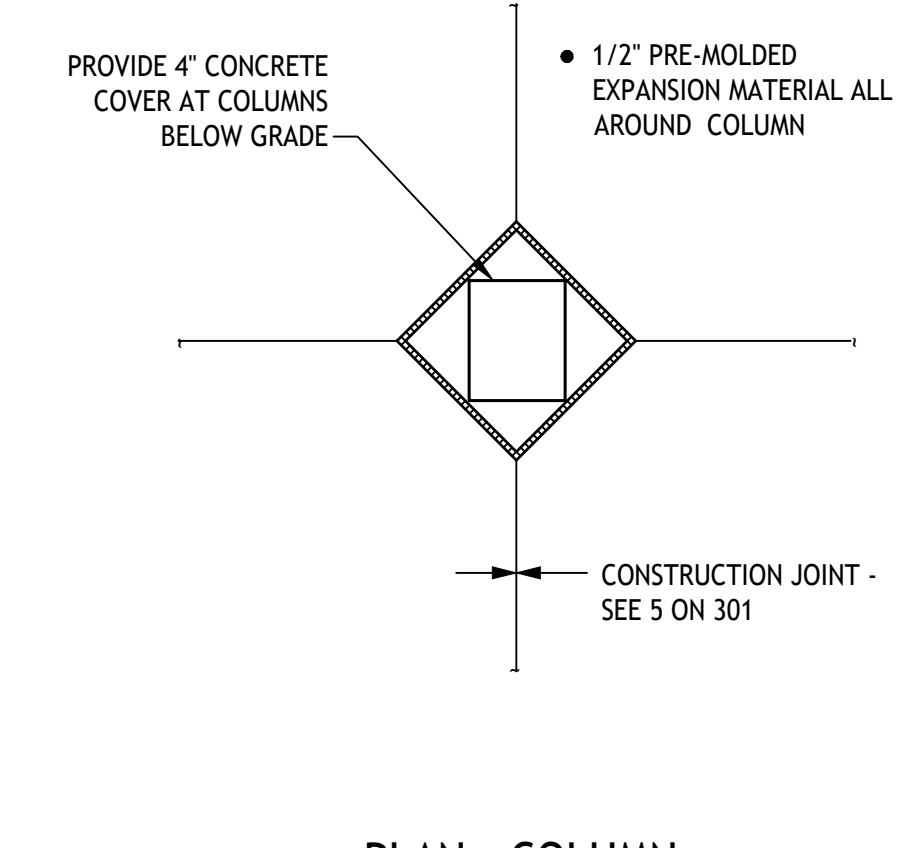
3 TYPICAL COLUMN BASE DETAIL
SCALE: 3/4" = 1'-0"



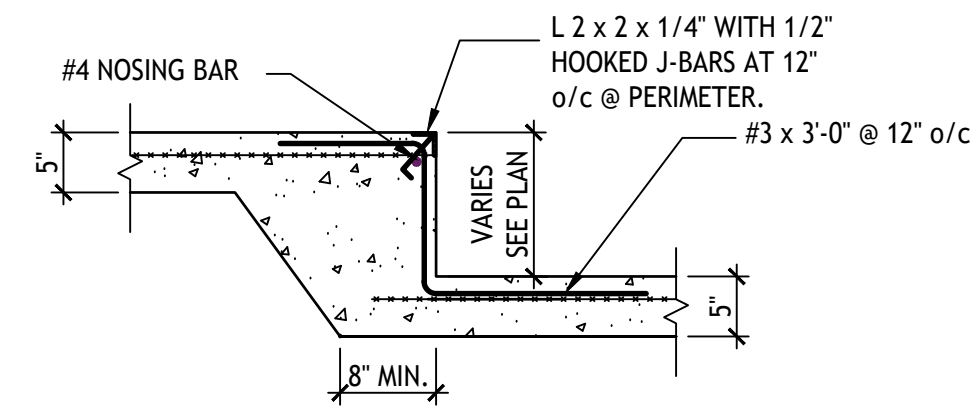
4 TYPICAL CONSTRUCTION JOINT IN SLAB ON GRADE
SCALE: 3/4" = 1'-0"



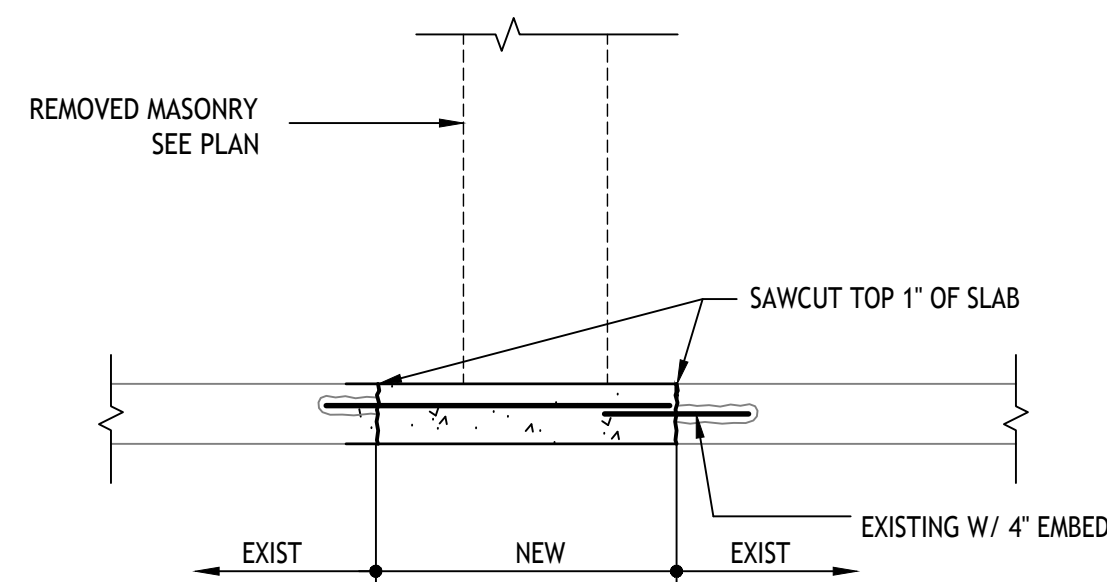
5 TYP. CONTROL JOINT
SCALE: 3/4" = 1'-0"



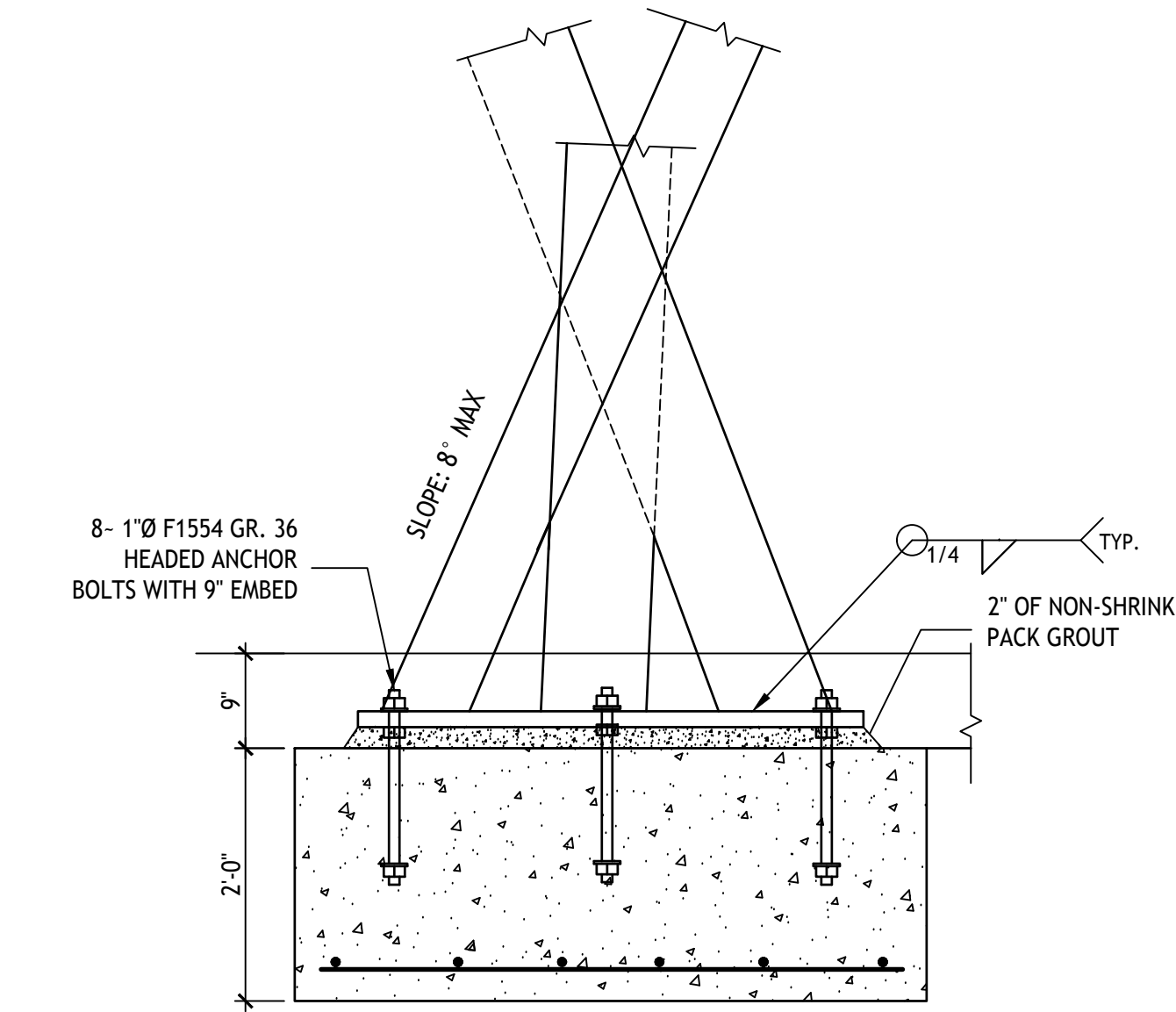
6 PLAN - COLUMN AT SLAB ON GRADE
SCALE: 3/4" = 1'-0"



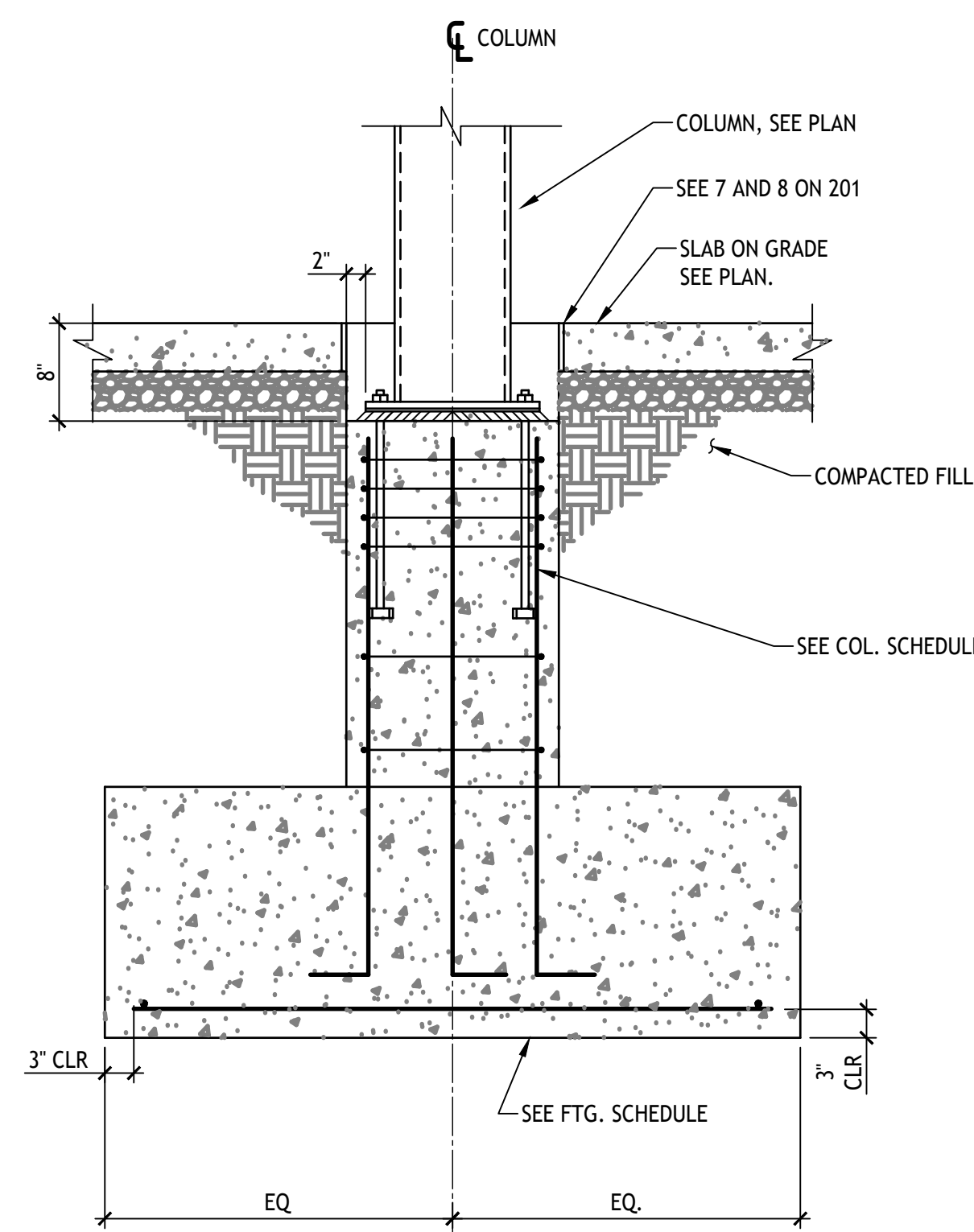
8 RECESSED SLAB
SCALE: 3/4" = 1'-0"



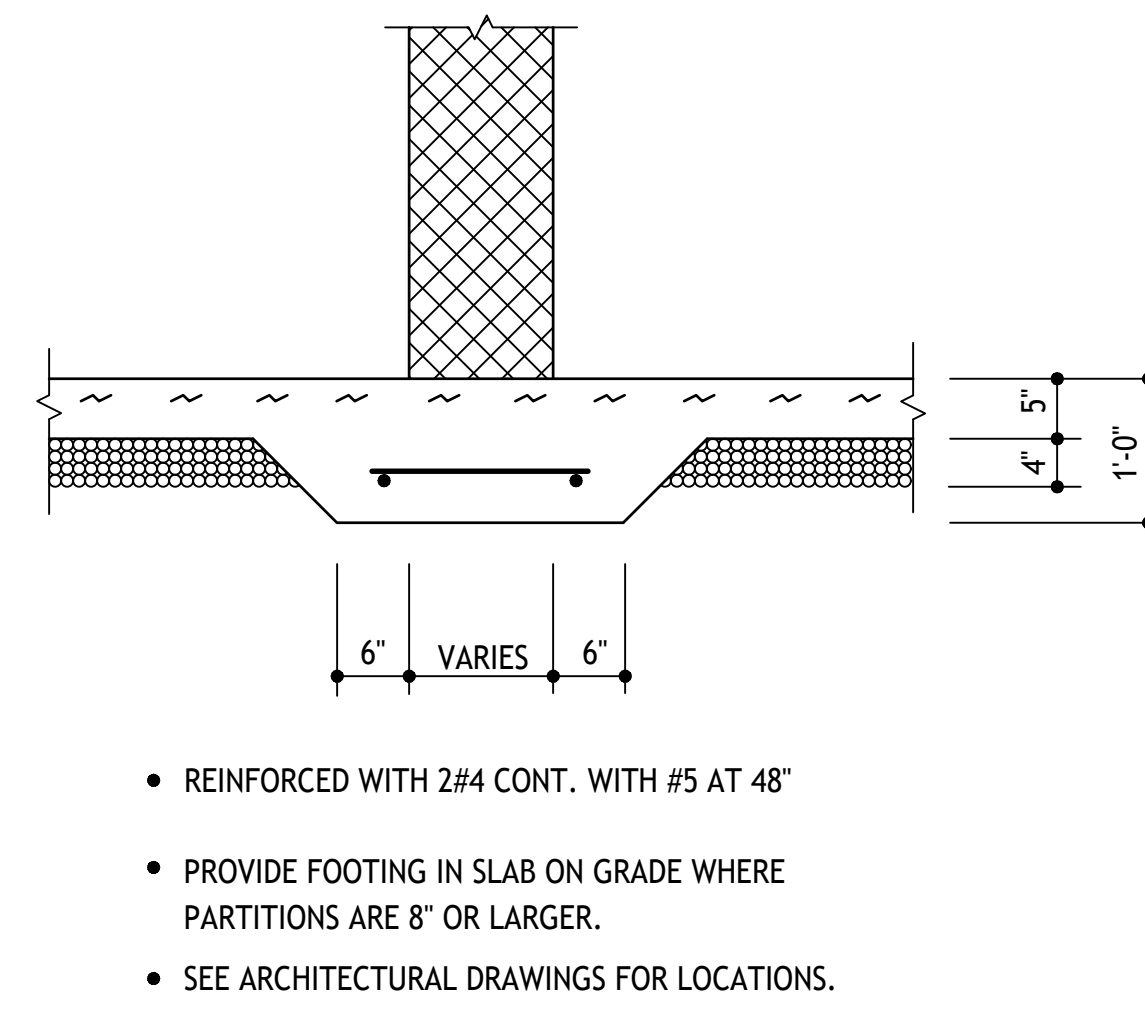
9 SLAB PATCH AT EXIST CMU
SCALE: 3/4" = 1'-0"



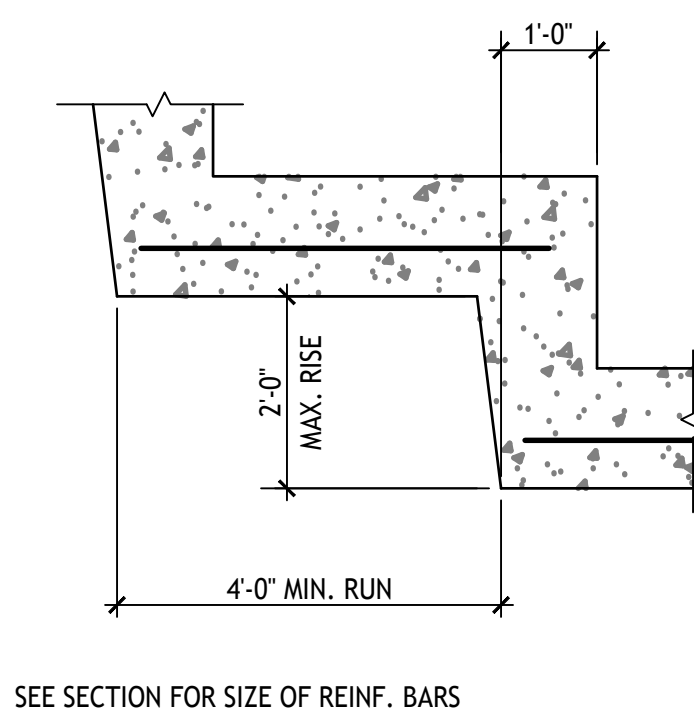
10 BEAM-COLUMN CONNECTION AT COL. C-6
SCALE: 3/4" = 1'-0"



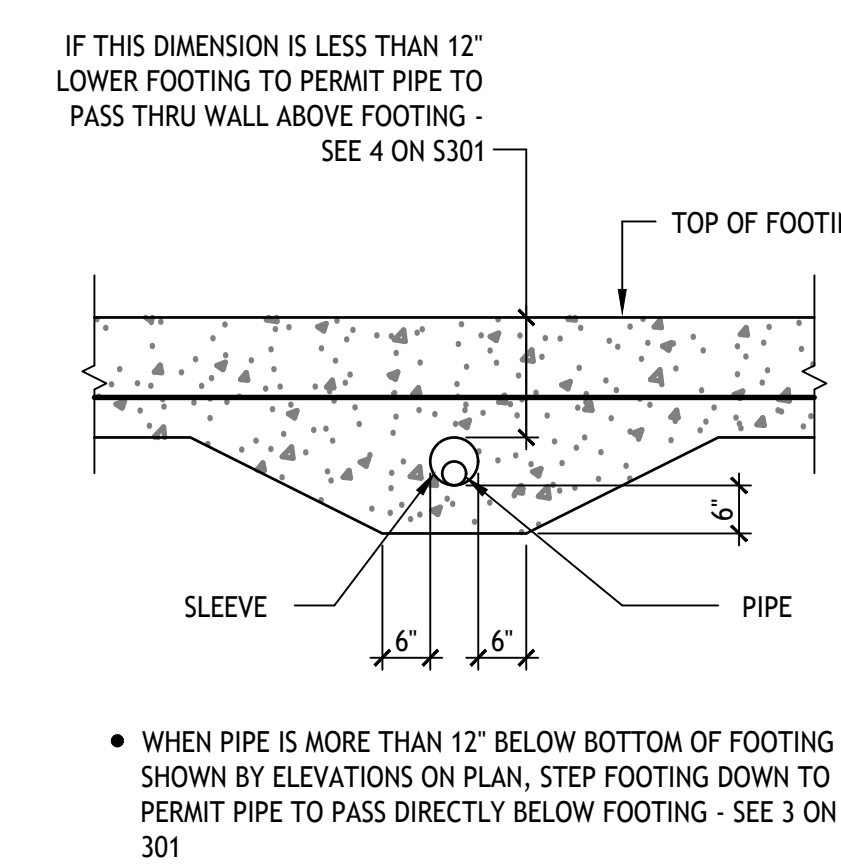
11 INTERIOR CONCRETE PEDESTAL AT STEEL COLUMN
SCALE: 3/4" = 1'-0"



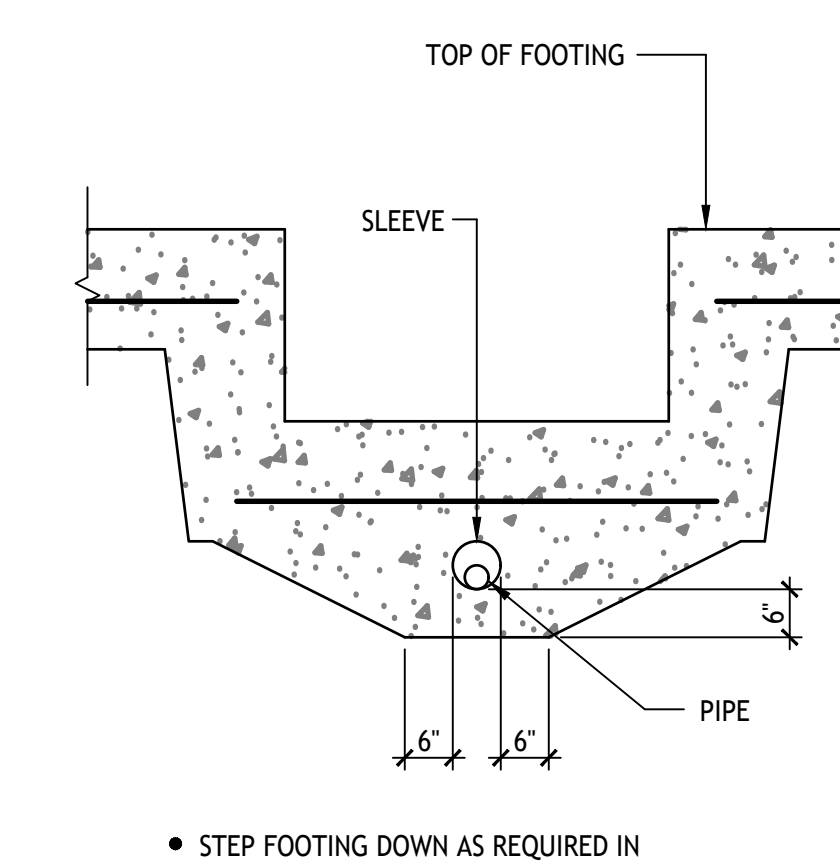
12 FOOTING IN SLAB ON GRADE AT NON-LOAD BEARING PARTITION
SCALE: 3/4" = 1'-0"



13 TYPICAL STEPPED FOOTING
SCALE: 3/4" = 1'-0"

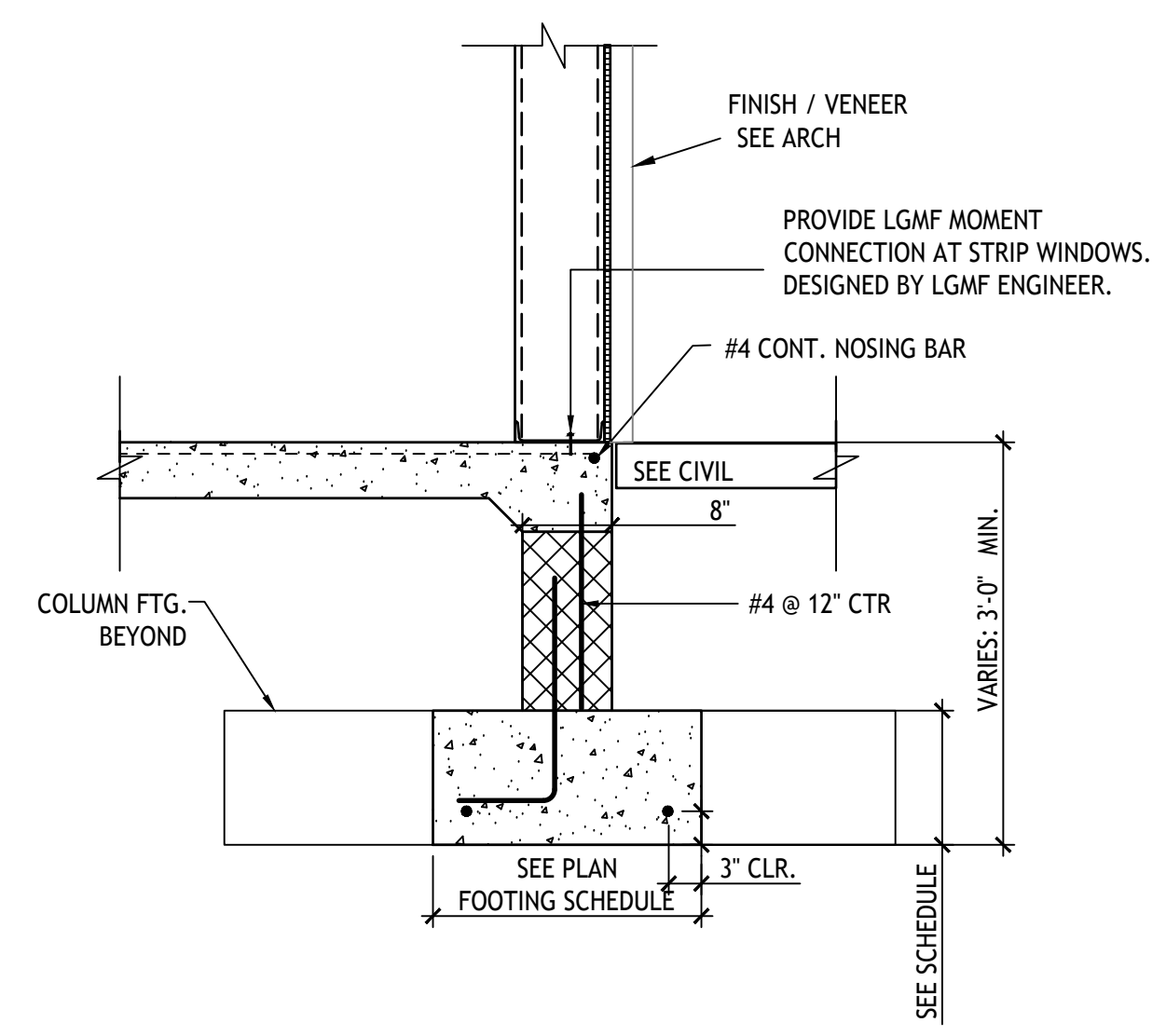


14 TYPICAL PIPE THROUGH FOOTING
SCALE: 3/4" = 1'-0"

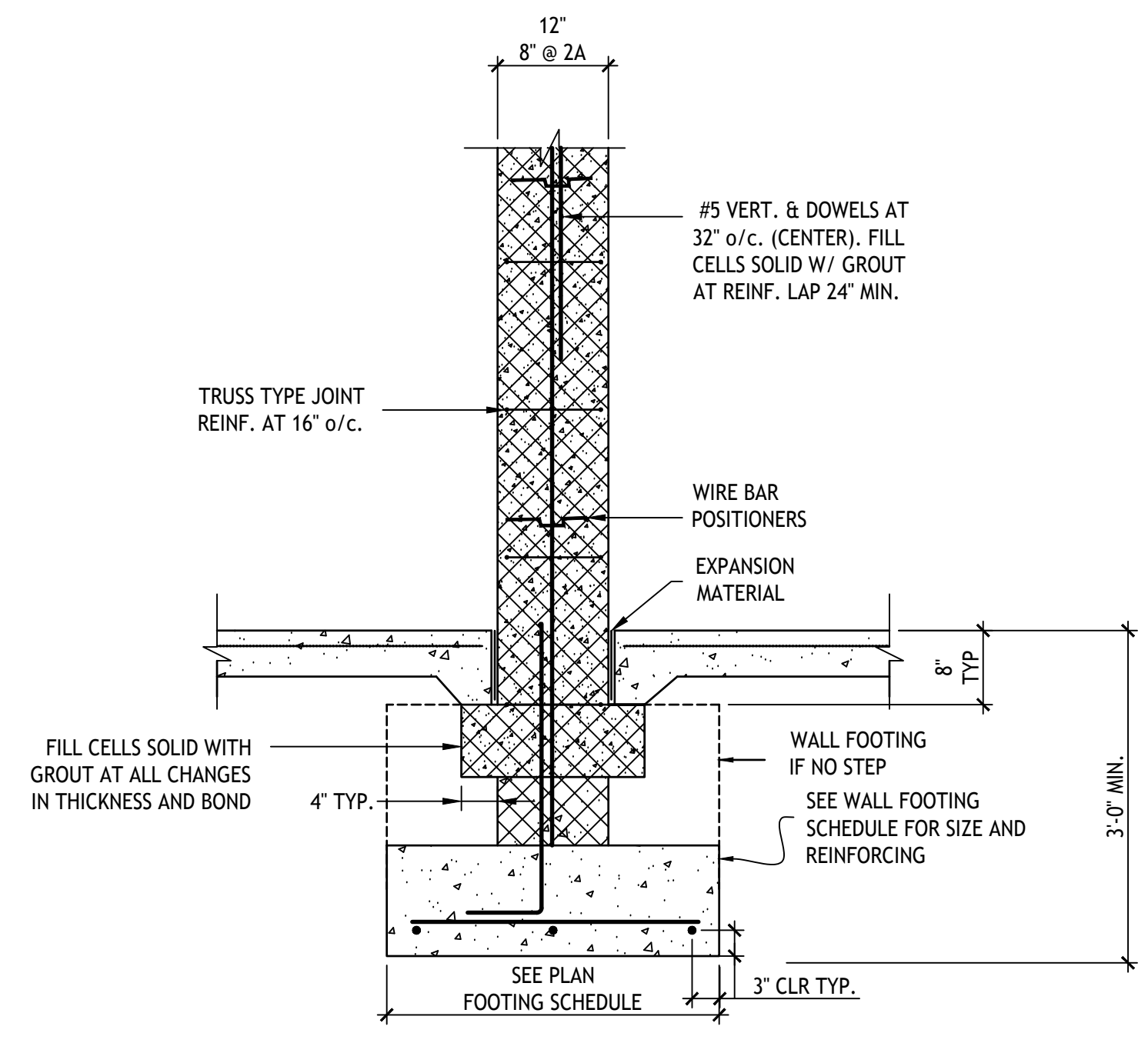


15 FOOTING STEPPED DOWN AT PIPE
SCALE: 3/4" = 1'-0"

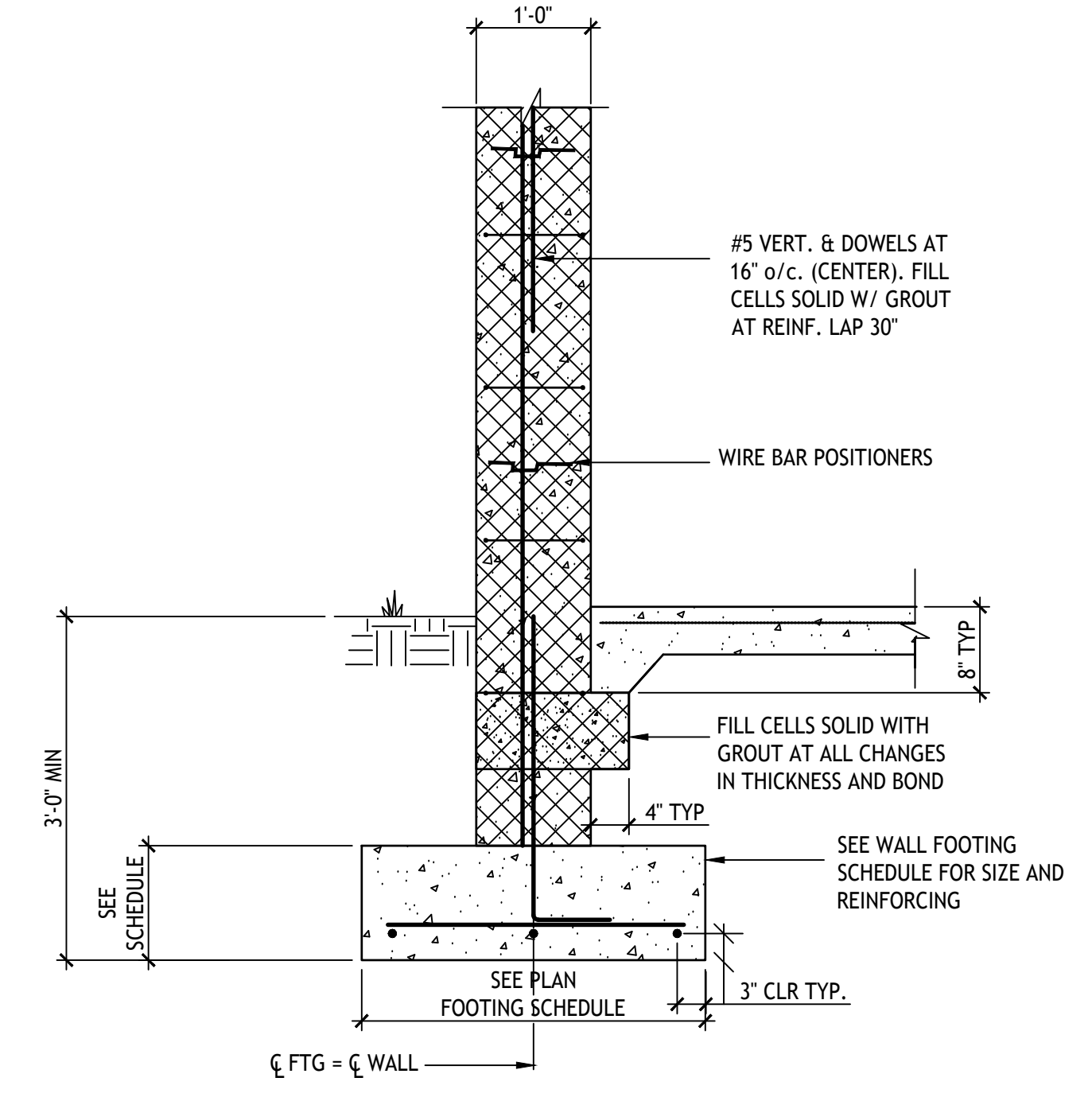
Bid Set	2023.07.27
No. Issue / Revision	Date
Drawn By:	HAG
Checked By:	MWD
Plot Date:	July 28, 2023



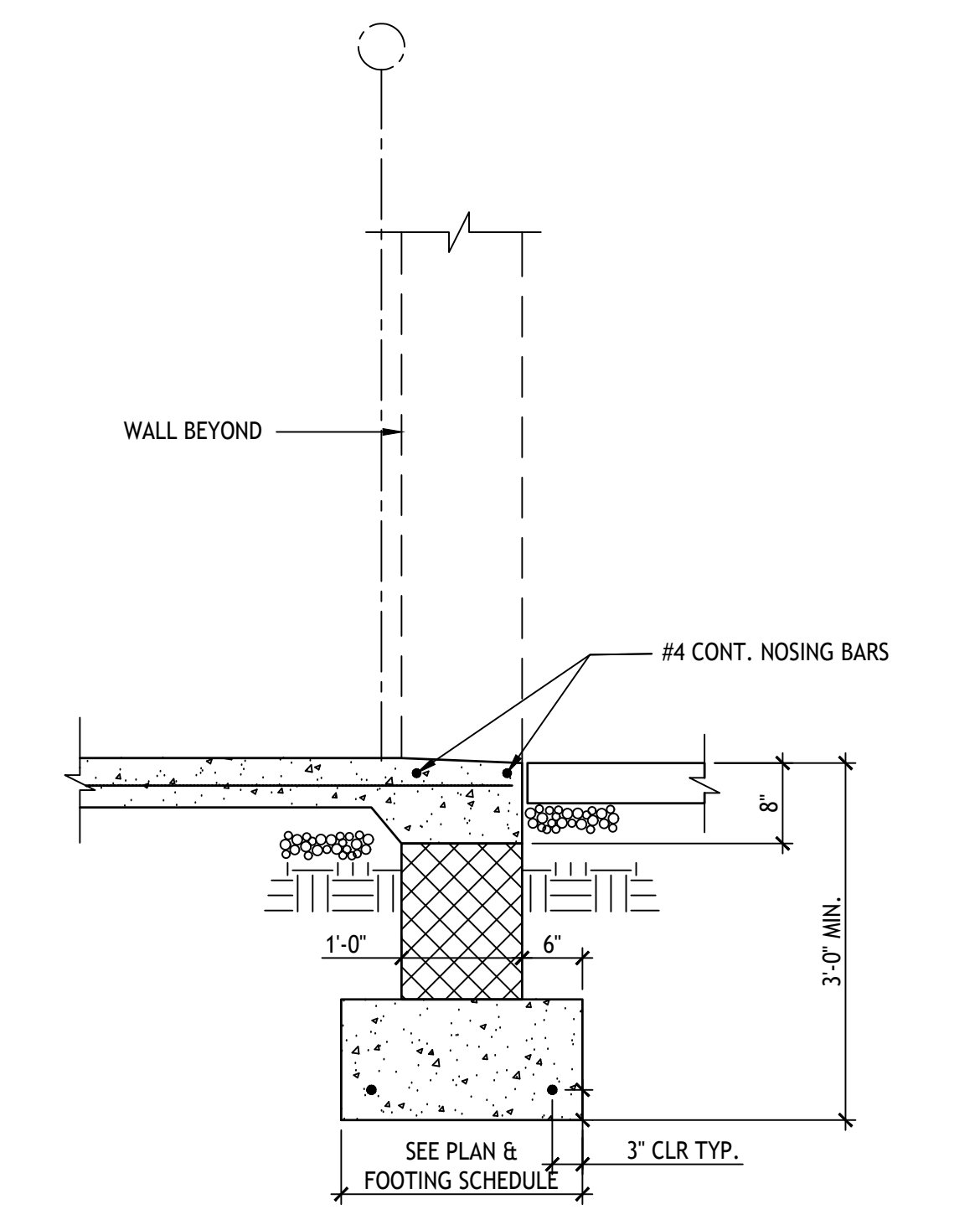
1 EXT. FOUNDATION @ NEW CUSTOMER LOUNGE
SCALE: 3/4 = 1'-0"



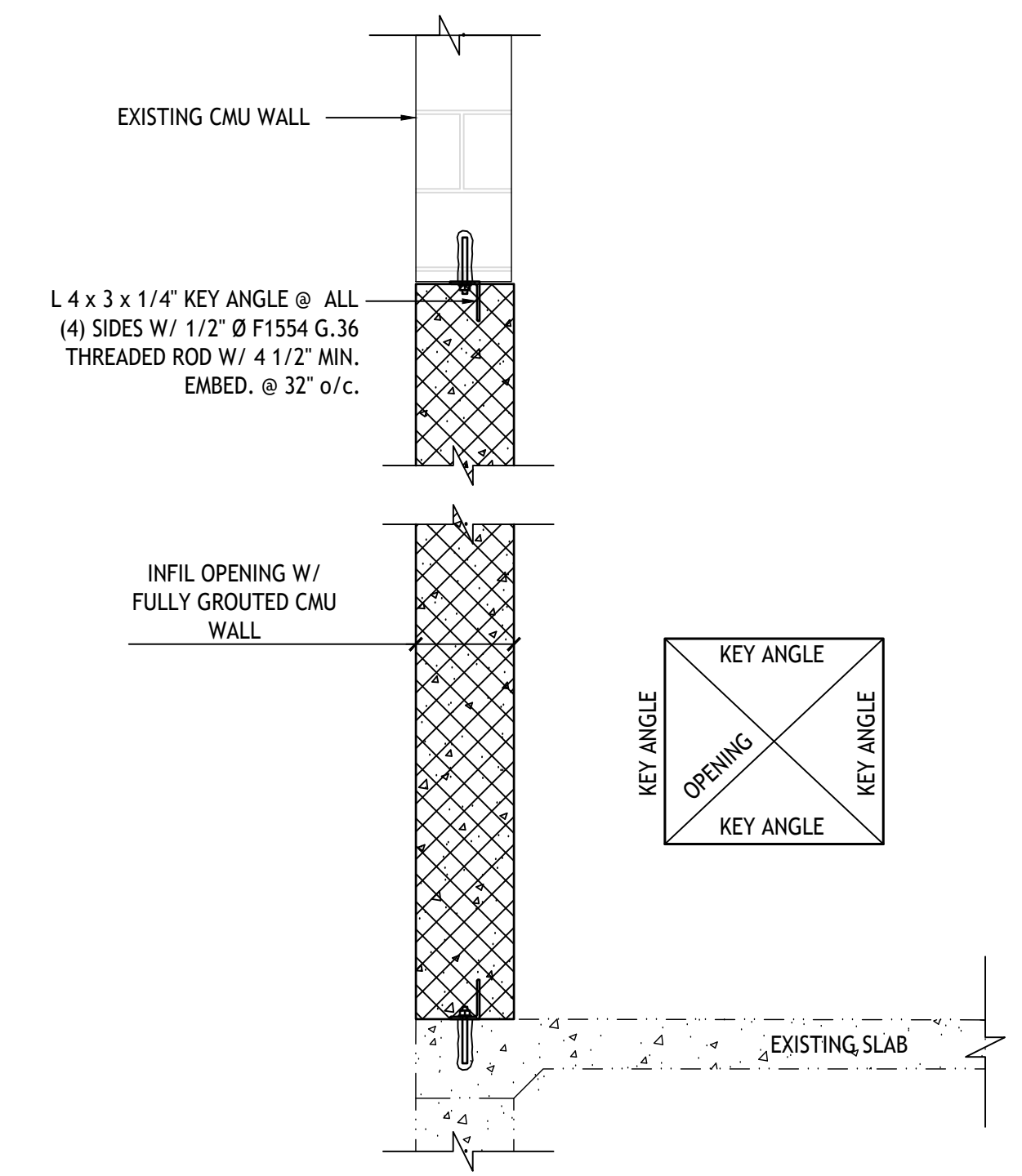
2A
2 FOUNDATION AT INTERIOR WALL
SCALE: 3/4 = 1'-0"



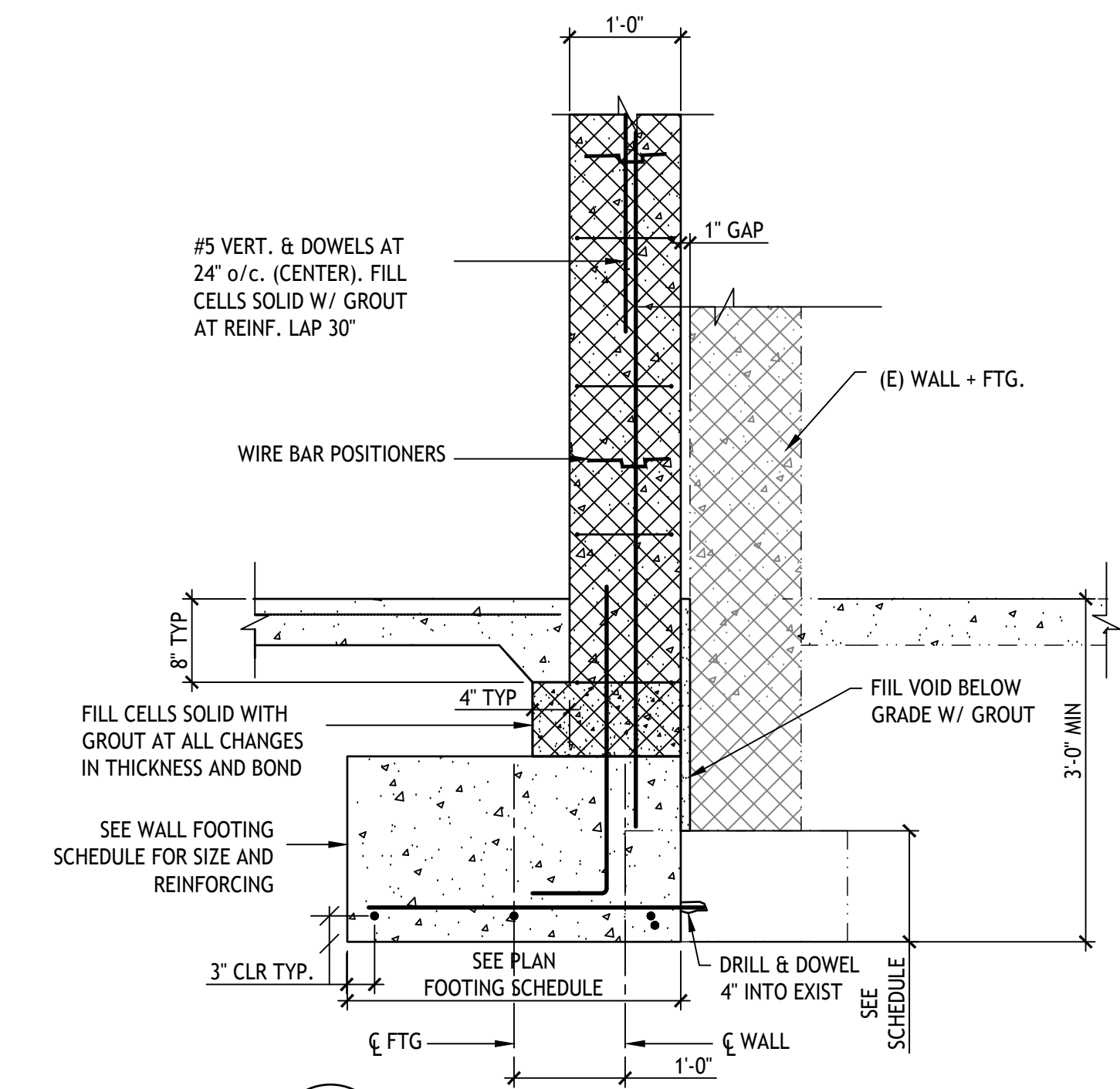
3 TYP. EXTERIOR WALL FOUNDATION
SCALE: 3/4 = 1'-0"



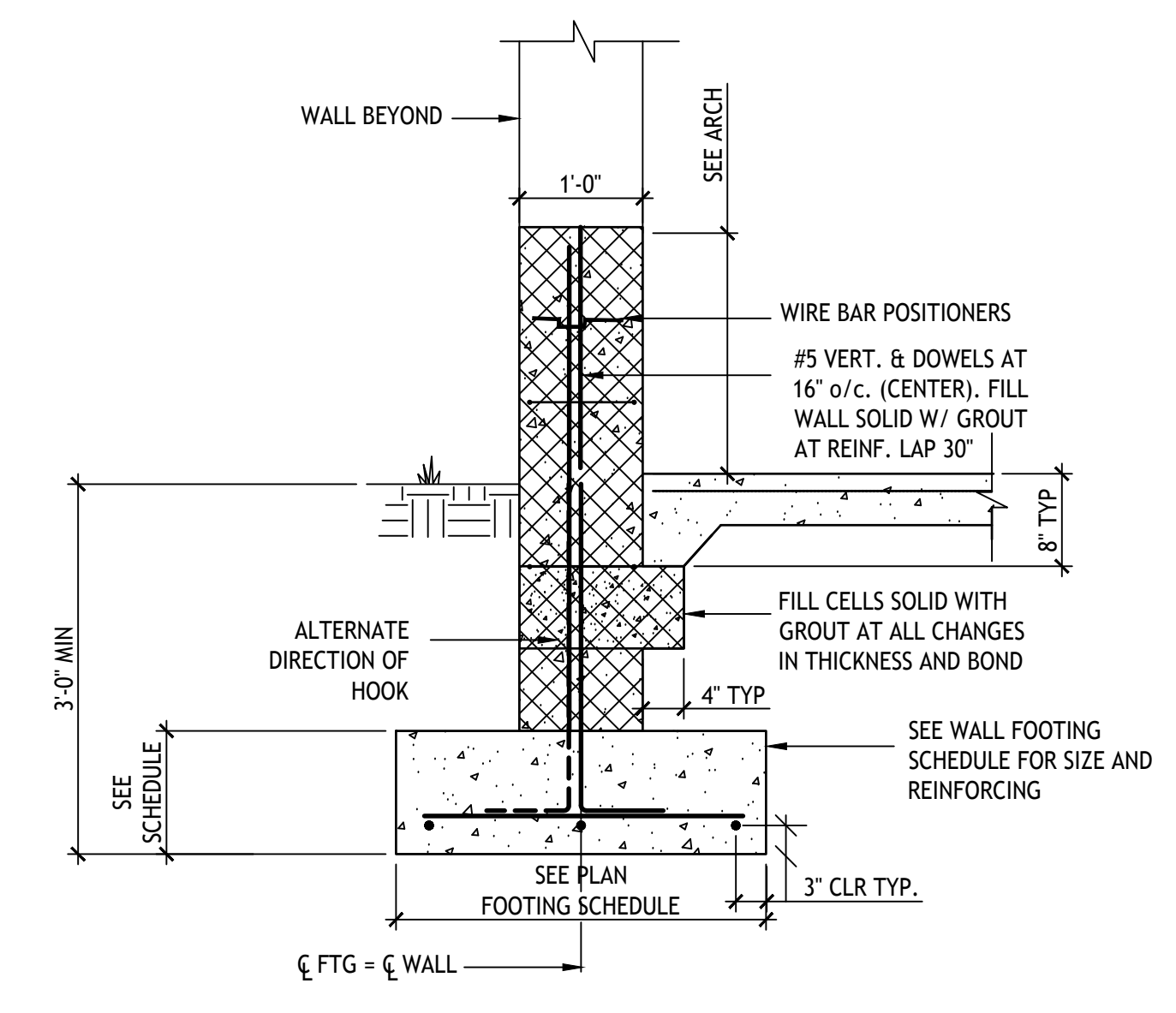
4 TYP. EXTERIOR WALL FOUNDATION @ DOOR OPENING
SCALE: 3/4 = 1'-0"



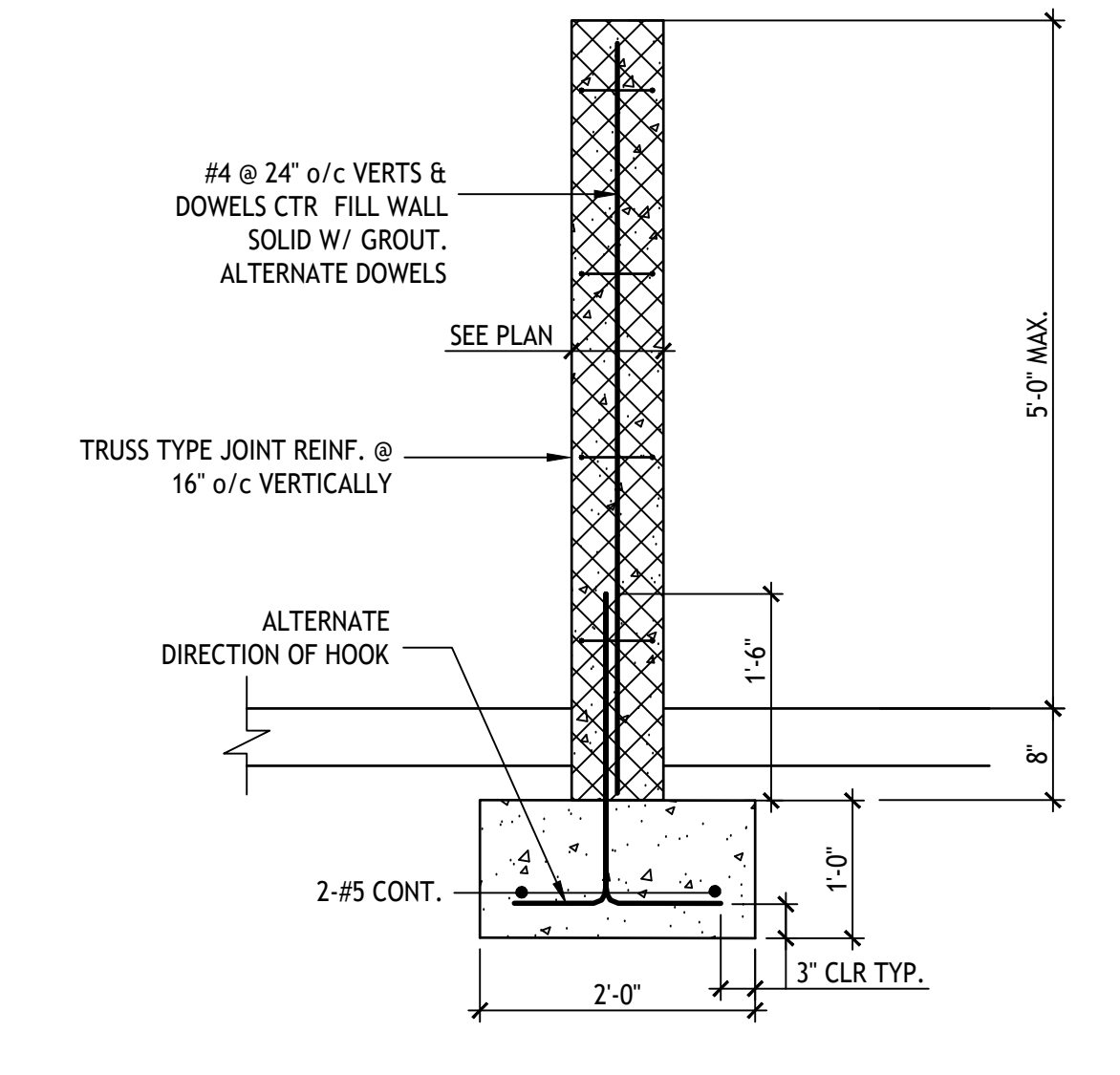
5 MASONRY INFILL
SCALE: 3/4 = 1'-0"



6 FOUNDATION ADJACENT TO EXISTING
SCALE: 3/4 = 1'-0"



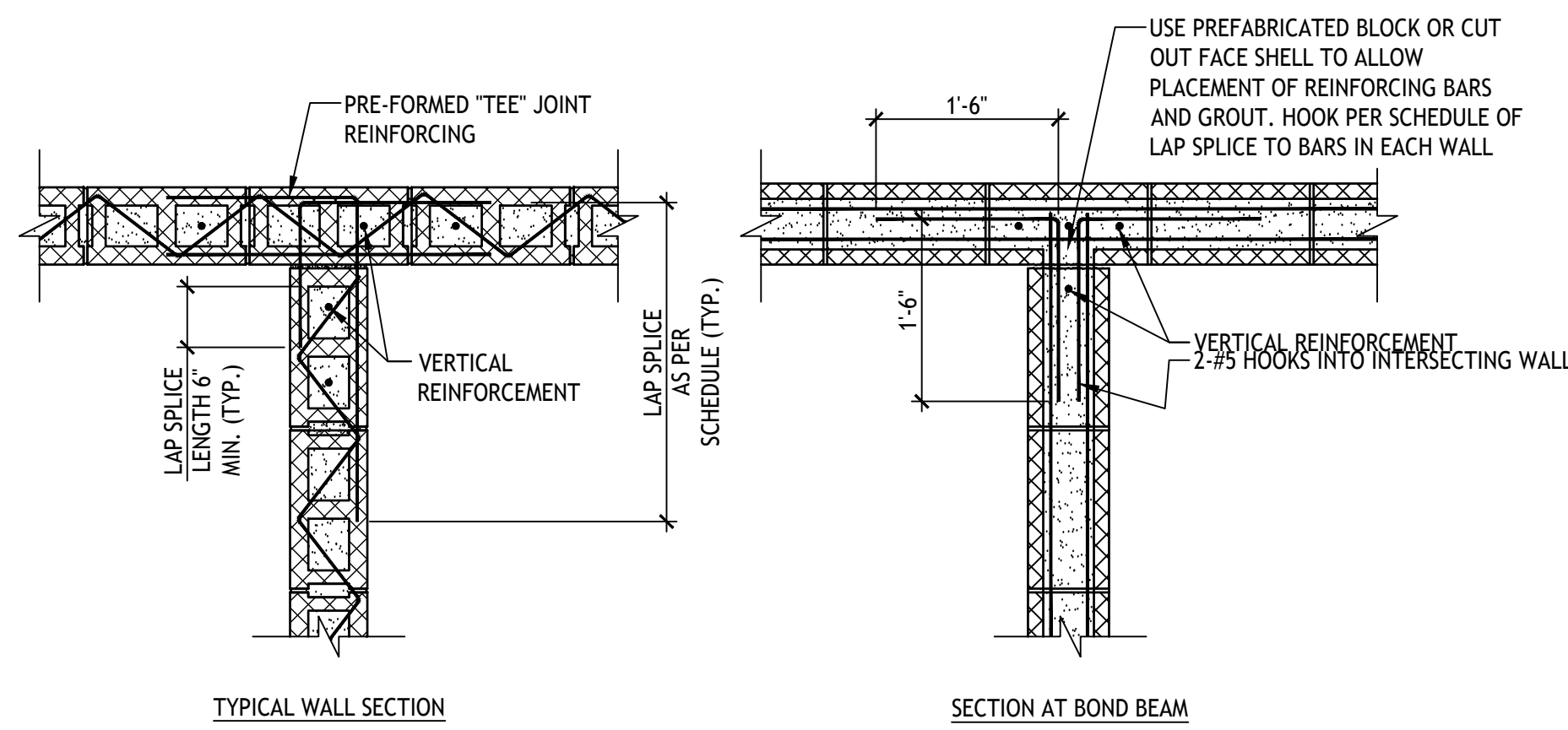
7 FOUNDATION AT AIR/OIL ROOM
SCALE: 3/4 = 1'-0"



8 SERVICE BAY DIVIDER WALL
SCALE: 3/4 = 1'-0"

Bid Set	2023.07.27
No. Issue / Revision	Date
Drawn By:	HAG
Checked By:	MWD
Plot Date:	July 28, 2023

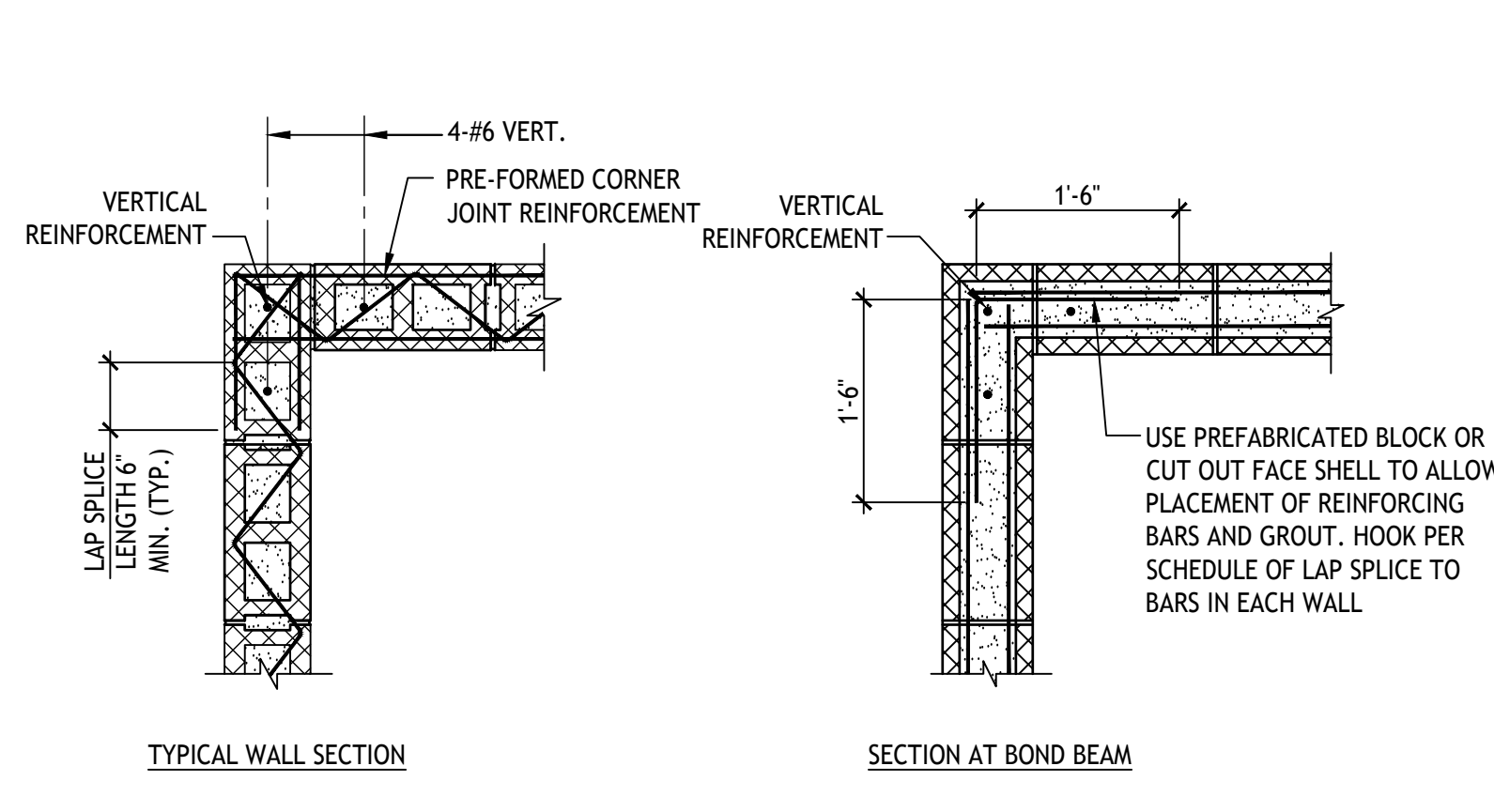
Sheet Number
S-202
Sheet Title
TYP FOUNDATION SECTIONS



1 HORIZONTAL CMU WALL INTERSECTION REINFORCEMENT DETAIL

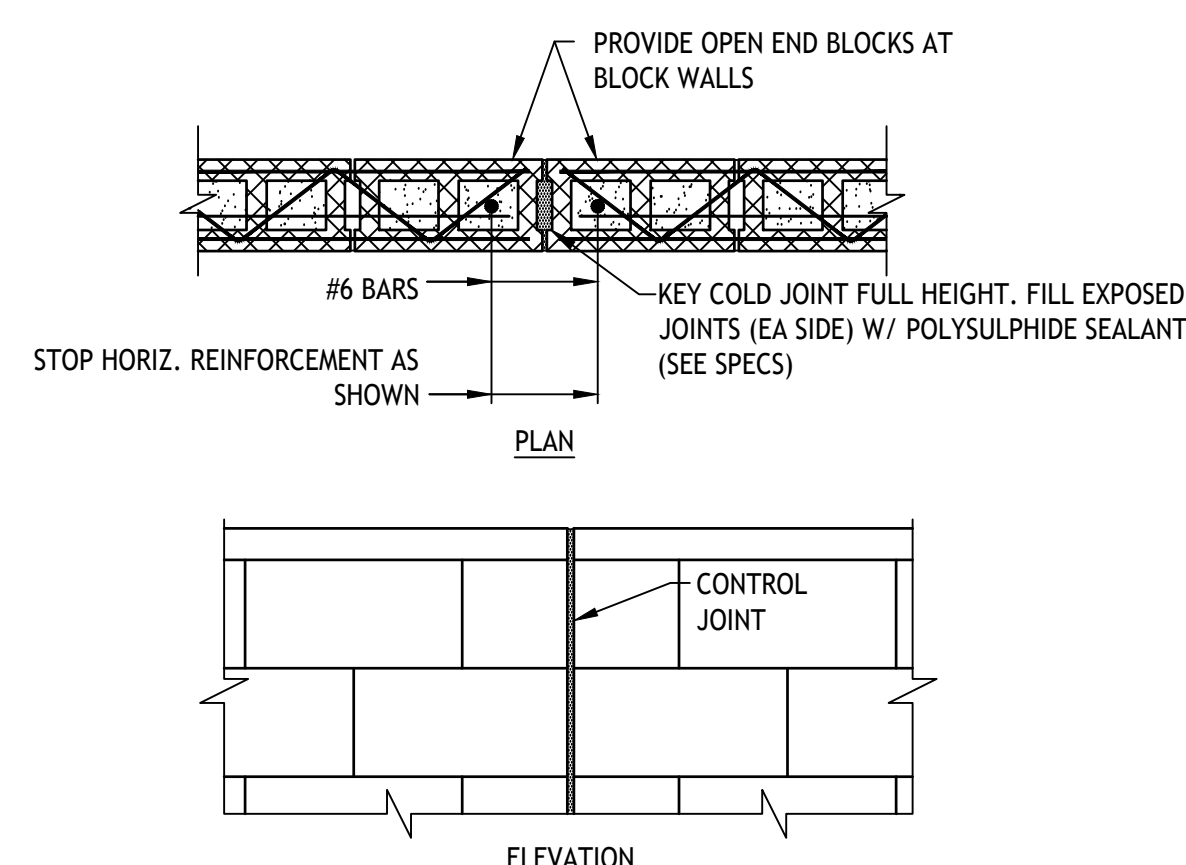
SCALE: 3/4" = 1'-0"

- NOTES:
1. SIZE OF HORIZONTAL INTERSECTION REINFORCING BARS TO MATCH BOND BEAM REINFORCING.
 2. NORMAL JOINT AND BOND BEAM REINFORCING NOT SHOWN FOR CLARITY.
 3. VERTICAL REINFORCING BARS TO EXTEND CONTINUOUSLY THROUGH BOND BEAMS. LAP VERTICALS AS PER SCHEDULE ABOVE BOND BEAMS.



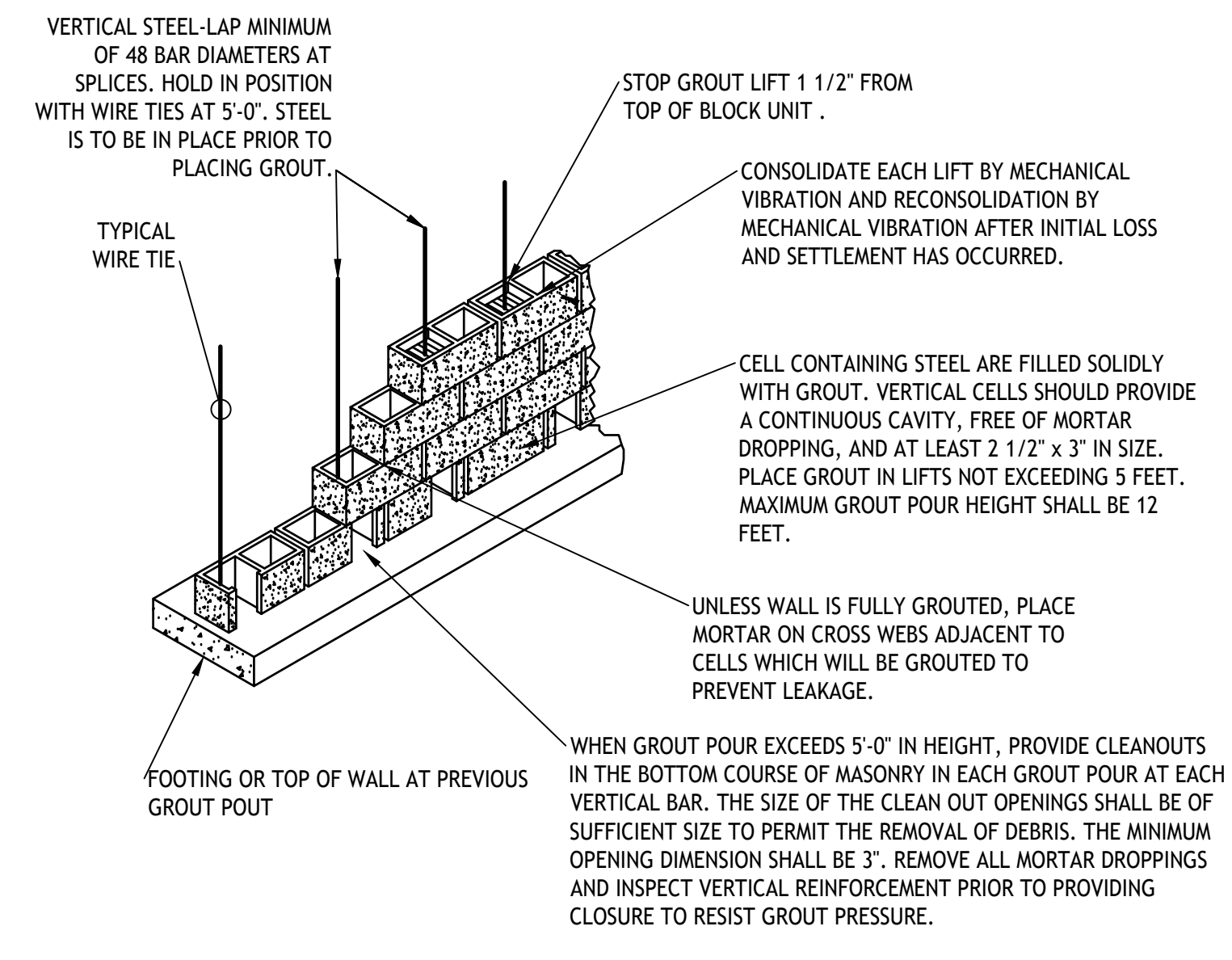
2 HORIZONTAL CMU WALL CORNER REINFORCEMENT DETAIL

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



3 VERTICAL CONTROL JOINTS

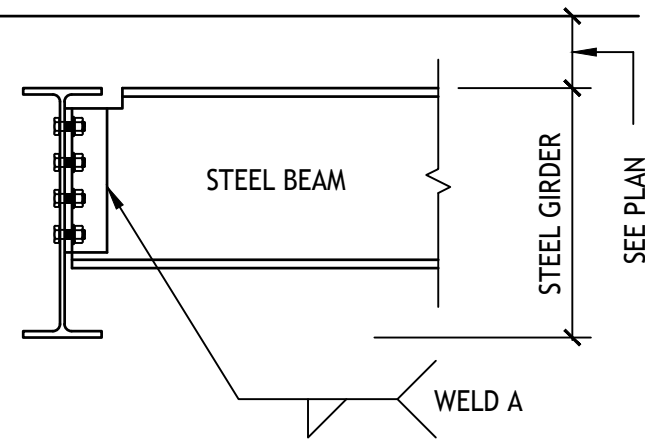
SCALE: 3/4" = 1'-0"



4 TYPICAL REINFORCED MASONRY CONSTRUCTION

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

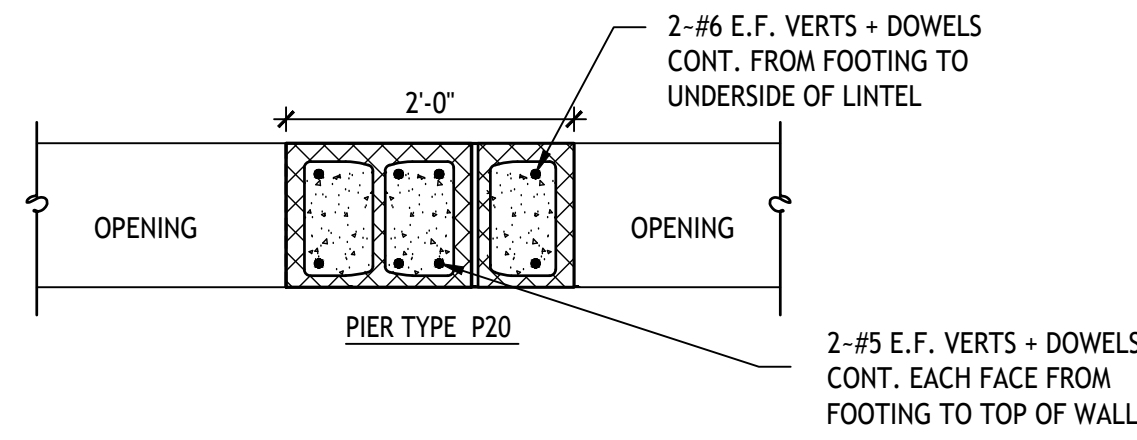
- NOTES:
1. USE PRINCIPAL DETAIL EXCEPT WITH THE APPROVAL OF THE STRUCTURAL ENGINEER.



5 TYPICAL SHEAR CONNECTIONS PRINCIPAL DETAIL

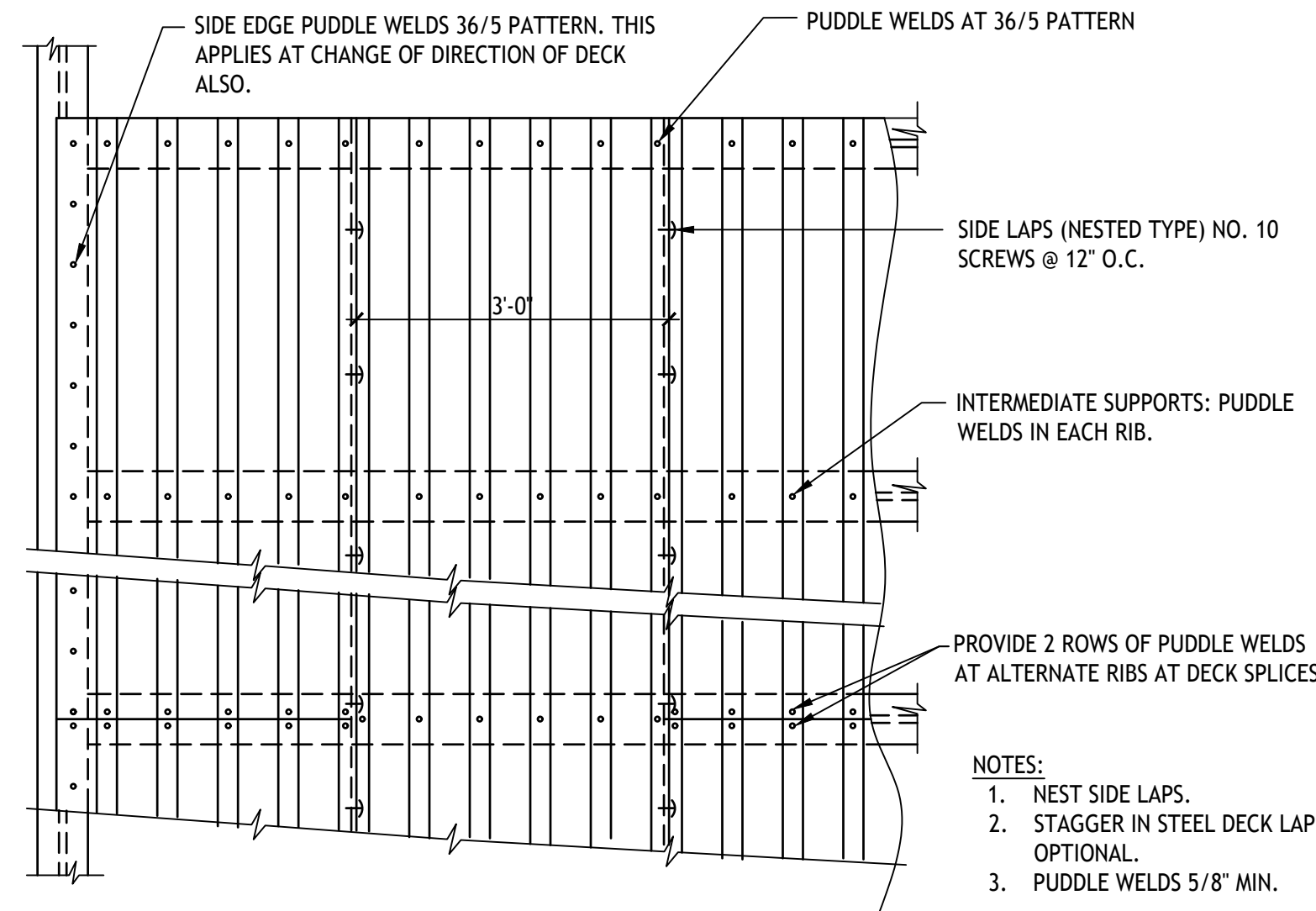
SCALE: 3/4" = 1'-0"

- BOLTED/WELDED DOUBLE ANGLE CONNECTIONS (TABLE 10-1/10-2 LRFD)
- 3/4" FIELD BOLTS - PRETENSIONED (ASTM A325 OR A490)
- SHOP WELDS - E70XX ELECTRODES
- FOR REACTIONS SEE BEAM REACTION SCHEDULE ON S-301.



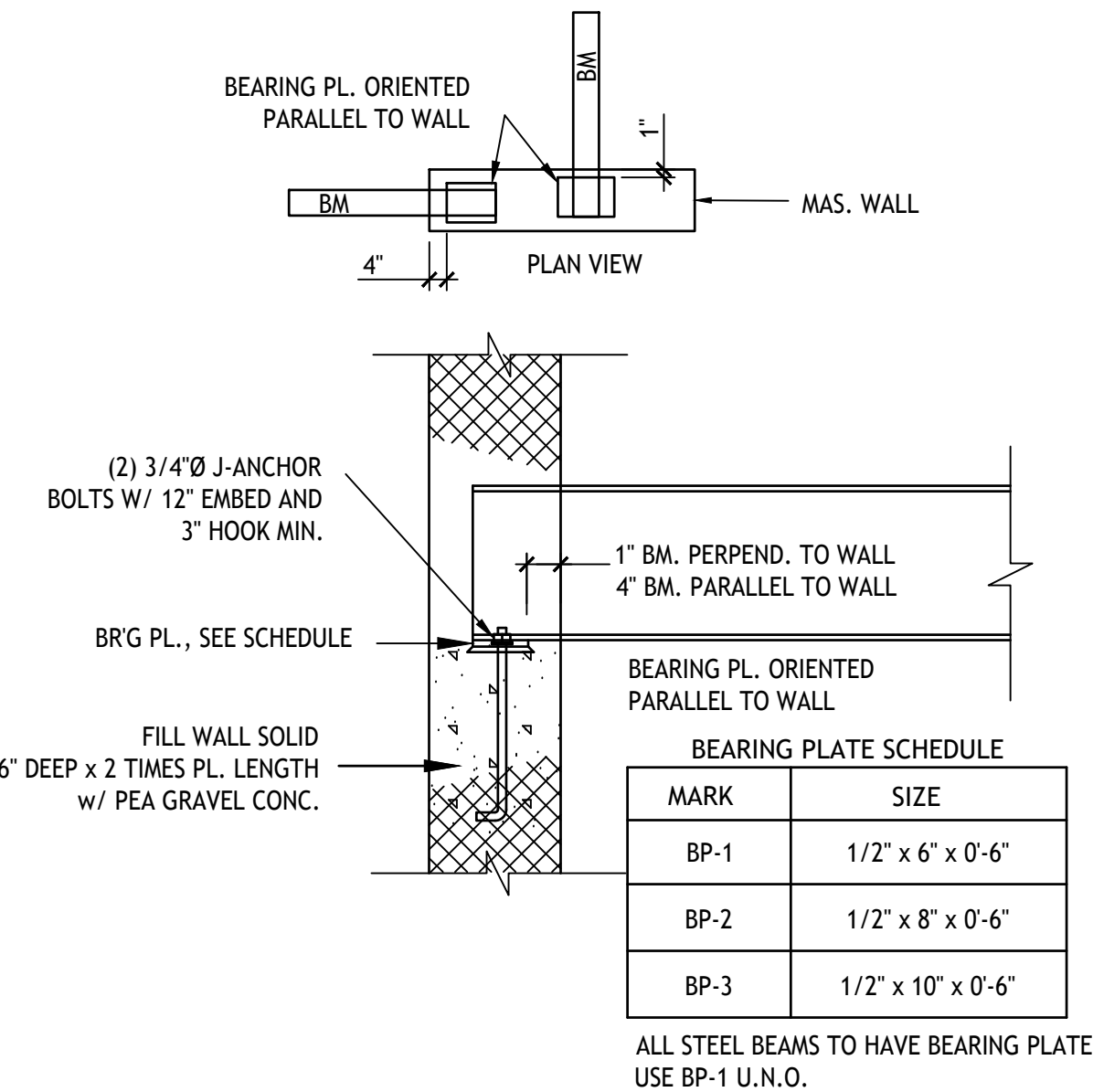
6.1 MASONRY REINFORCING AT PIERS

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



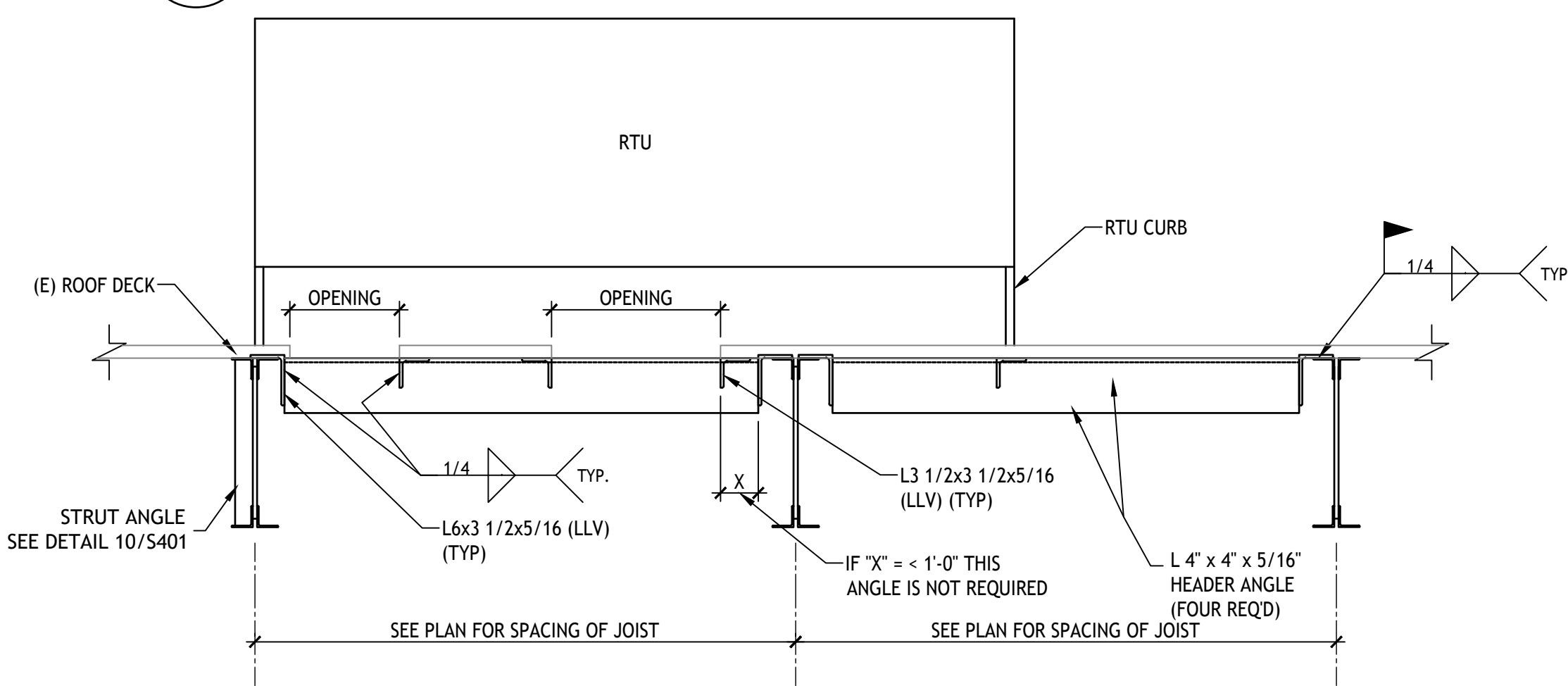
7 TYP ROOF DECK FASTENING PATTERN

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



8 TYP. BEAM BEARING ON MASONRY

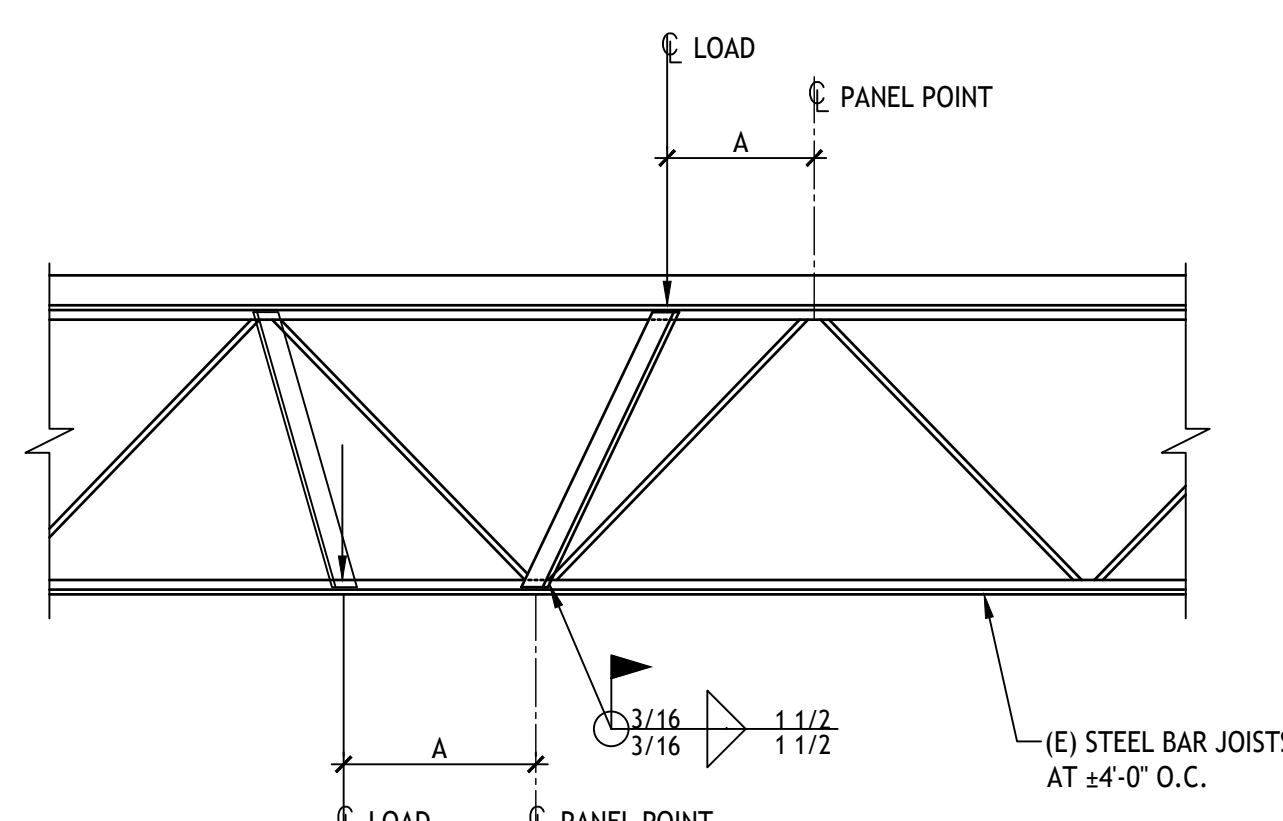
N.T.S.



9 TYP. ROOF TOP UNIT SUPPORT

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

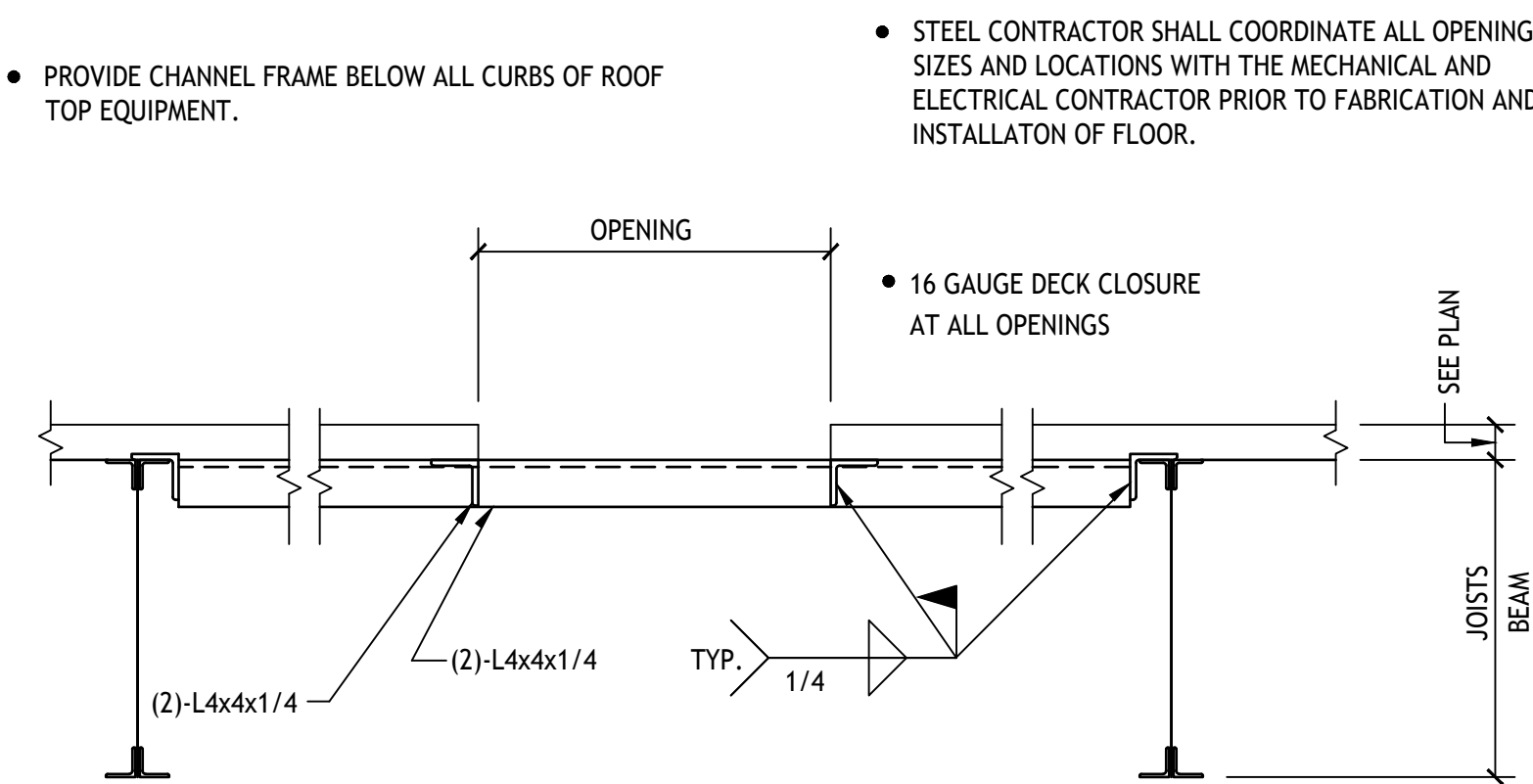
- PROVIDE ANGLE FRAMES UNDER ALL 4 SIDES OF ANY ROOF TOP EQUIPMENT SUPPORTED BY PREFABRICATED CURBS.
- UNIT TO BE SHOP ASSEMBLED AND FIELD WELDED TO JOISTS.
- SEE ARCH. AND MECH. DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.



10 ADDITIONAL JOIST WEB REINFORCING AT CONCENTRATED LOADS

3/4" = 1'-0"

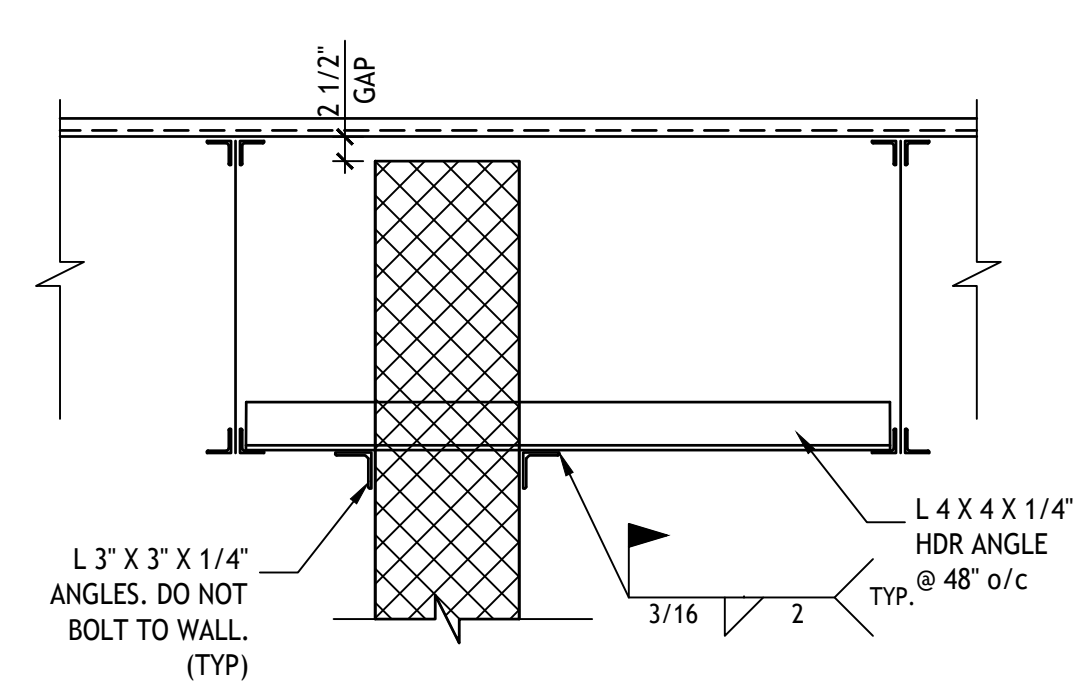
- WHERE DIMENSION "A" IS EQUAL TO OR GREATER THAN 4", FIELD INSTALL 2"x 2"x 1/4" ANGLE AS SHOWN.
- DETAIL APPLIES TO CONCENTRATED LOAD APPLIED IN BETWEEN PANEL POINTS AT EITHER TOP OR BOTTOM CHORD



11 OPENING IN METAL ROOF DECK

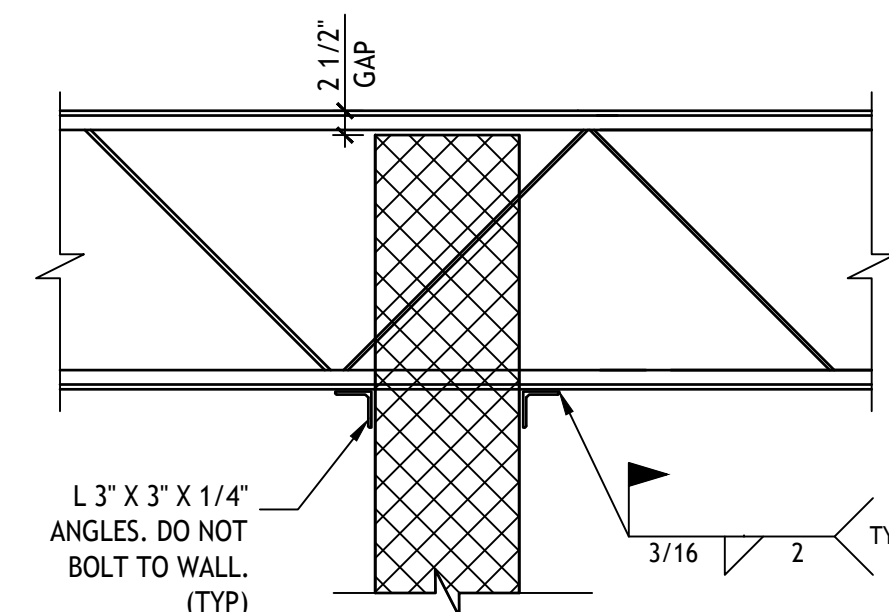
SCALE: 3/4" = 1'-0"

- SEE ARCH., MECH. AND ELECT. DRAWINGS FOR SIZE AND LOCATION OF OPENINGS AND UNIT CURBS FOR ALL ROOF TOP EQUIPMENT.



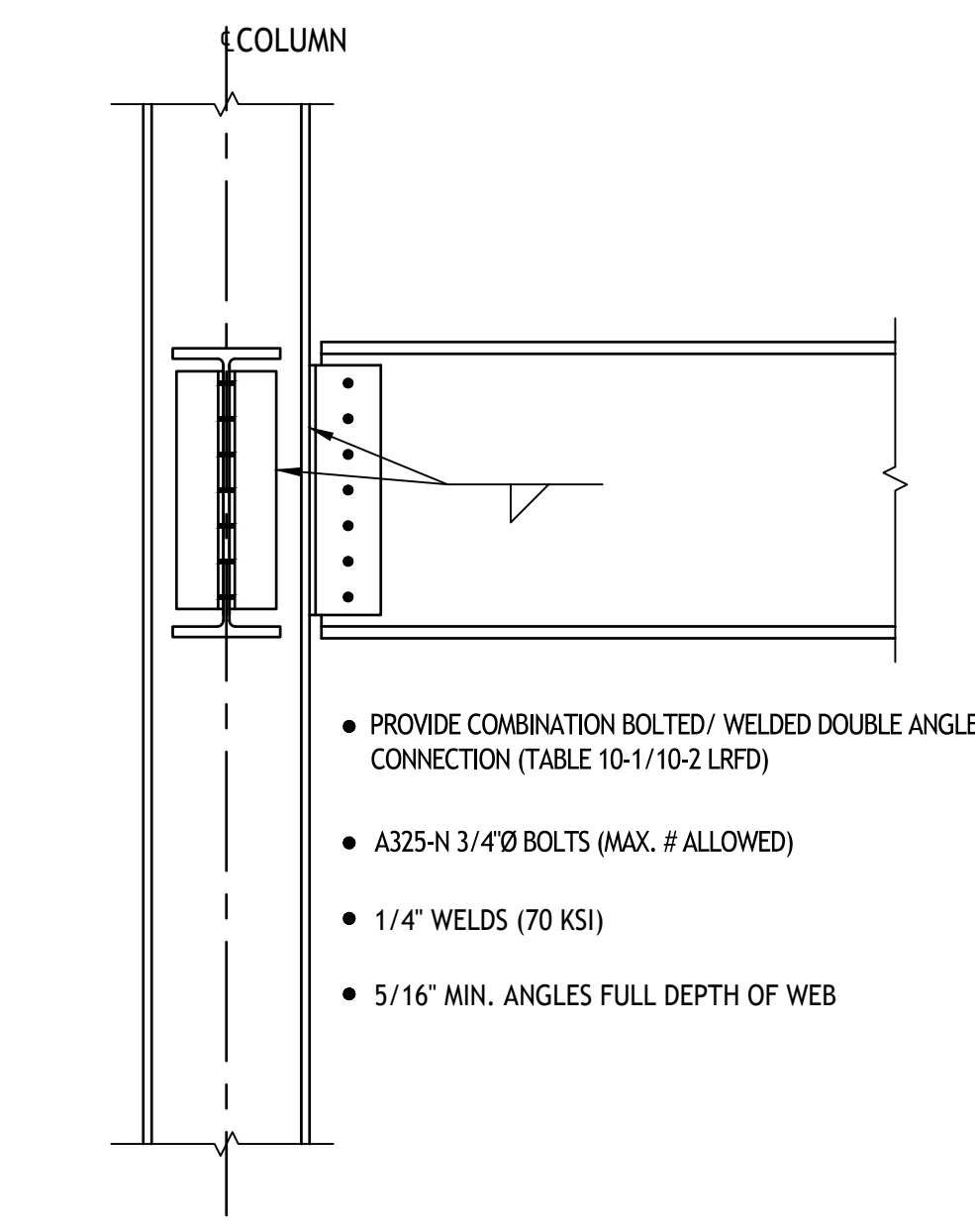
12 CMU BRACING PARALLEL TO JOISTS

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

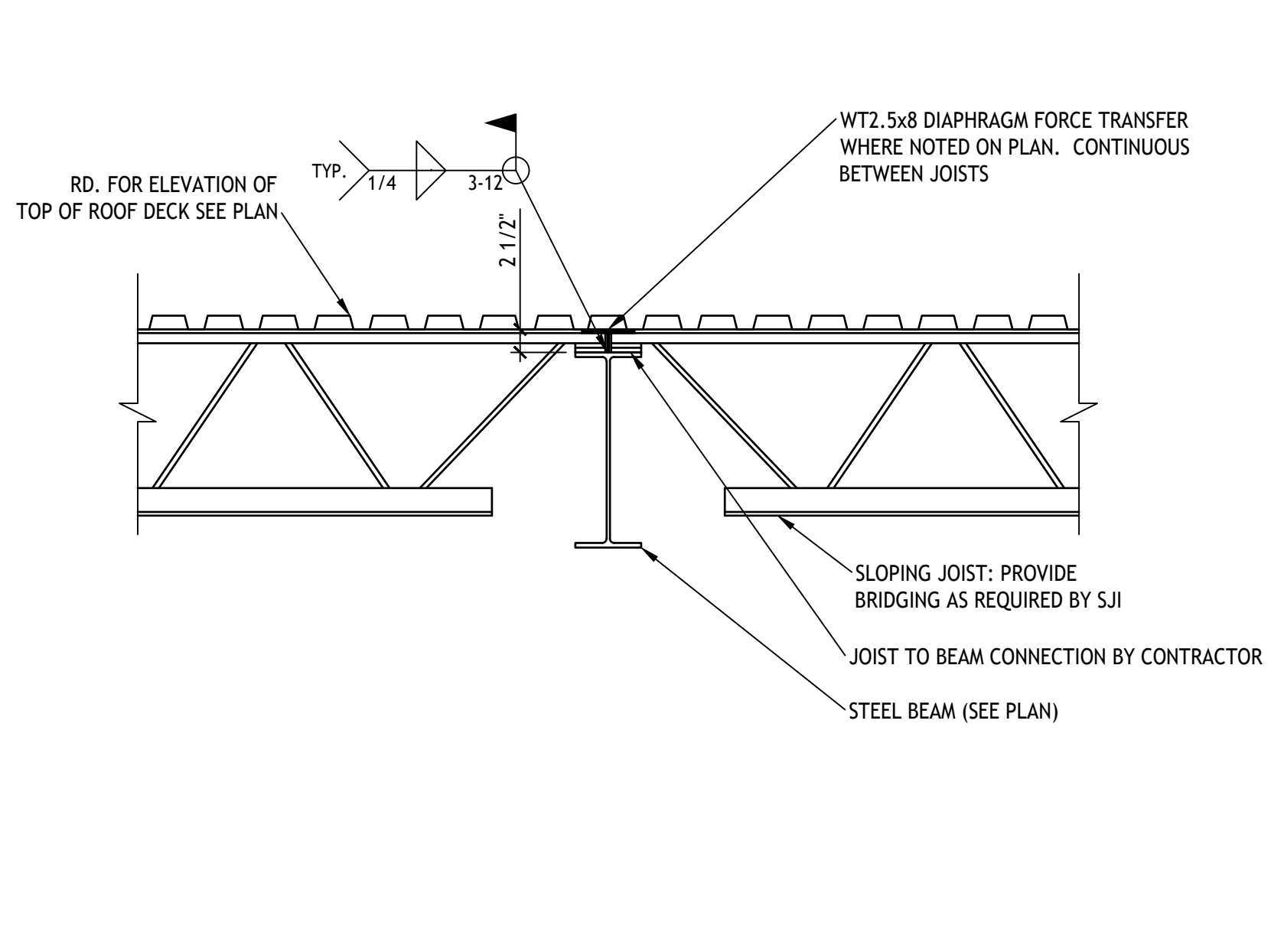


13 CMU BRACING AT JOISTS

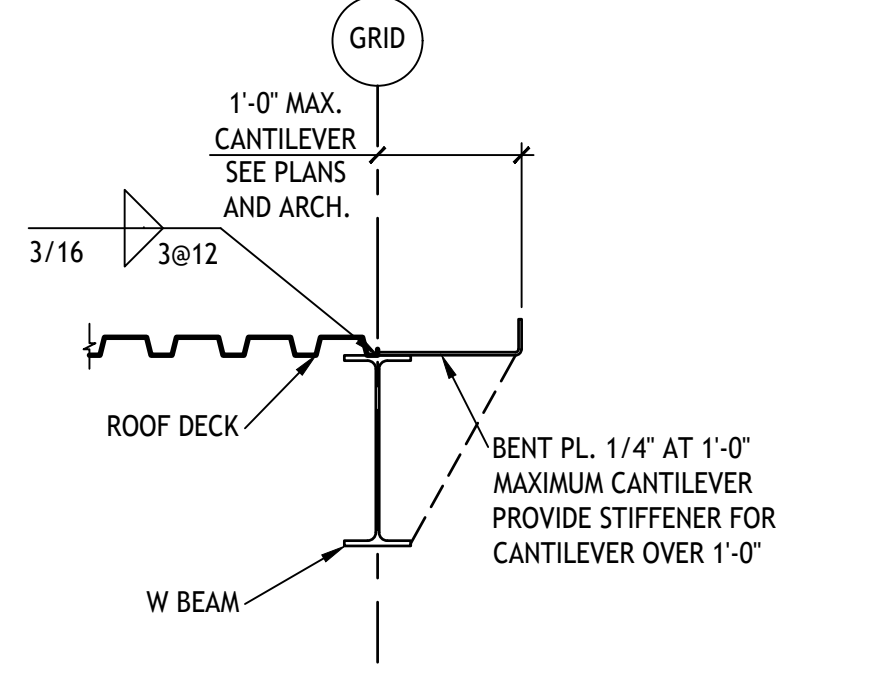
SCALE: 3/4" = 1'-0"



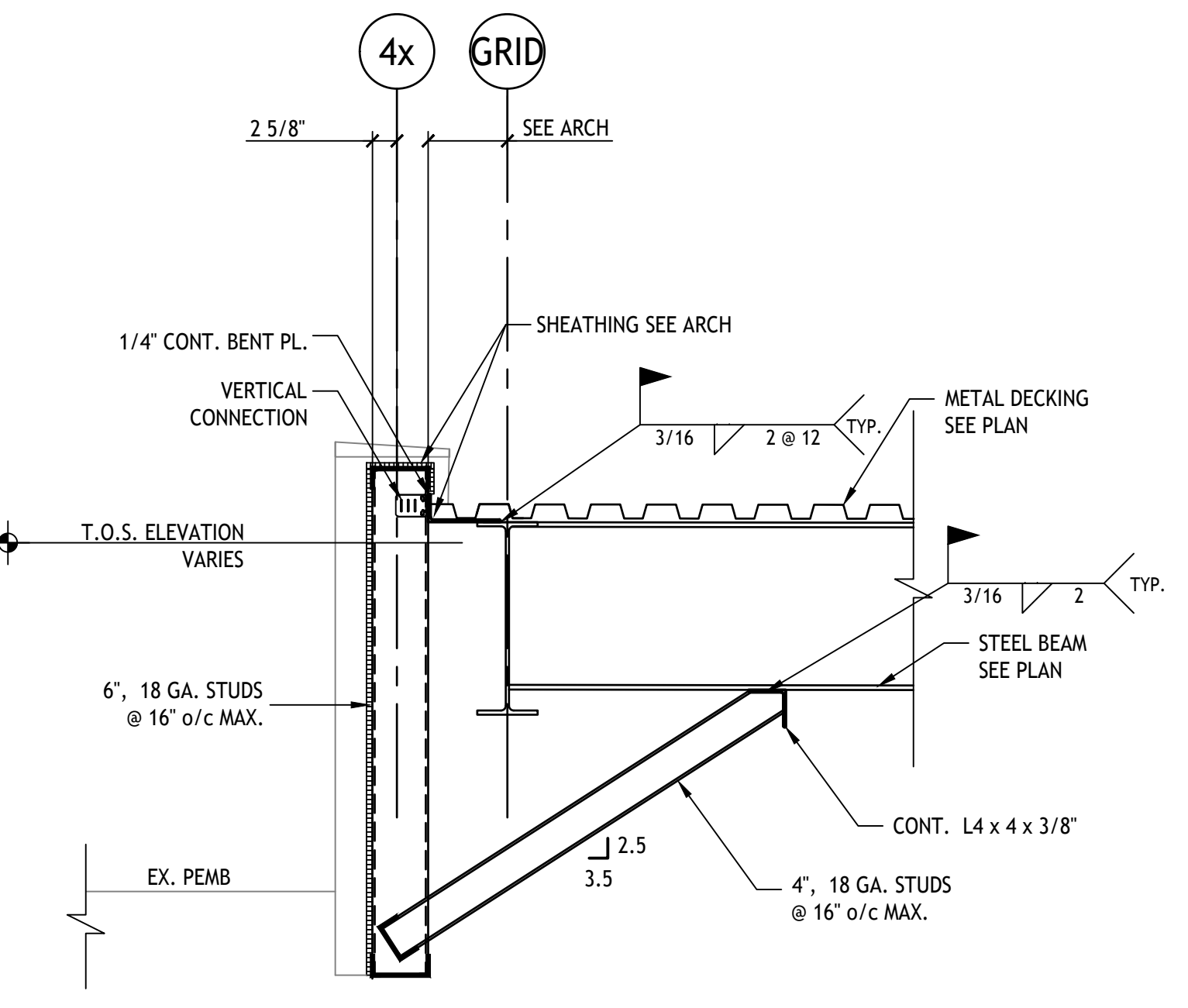
1 BEAM TO COLUMN CONNECTION
SCALE: 3/4" = 1'-0"



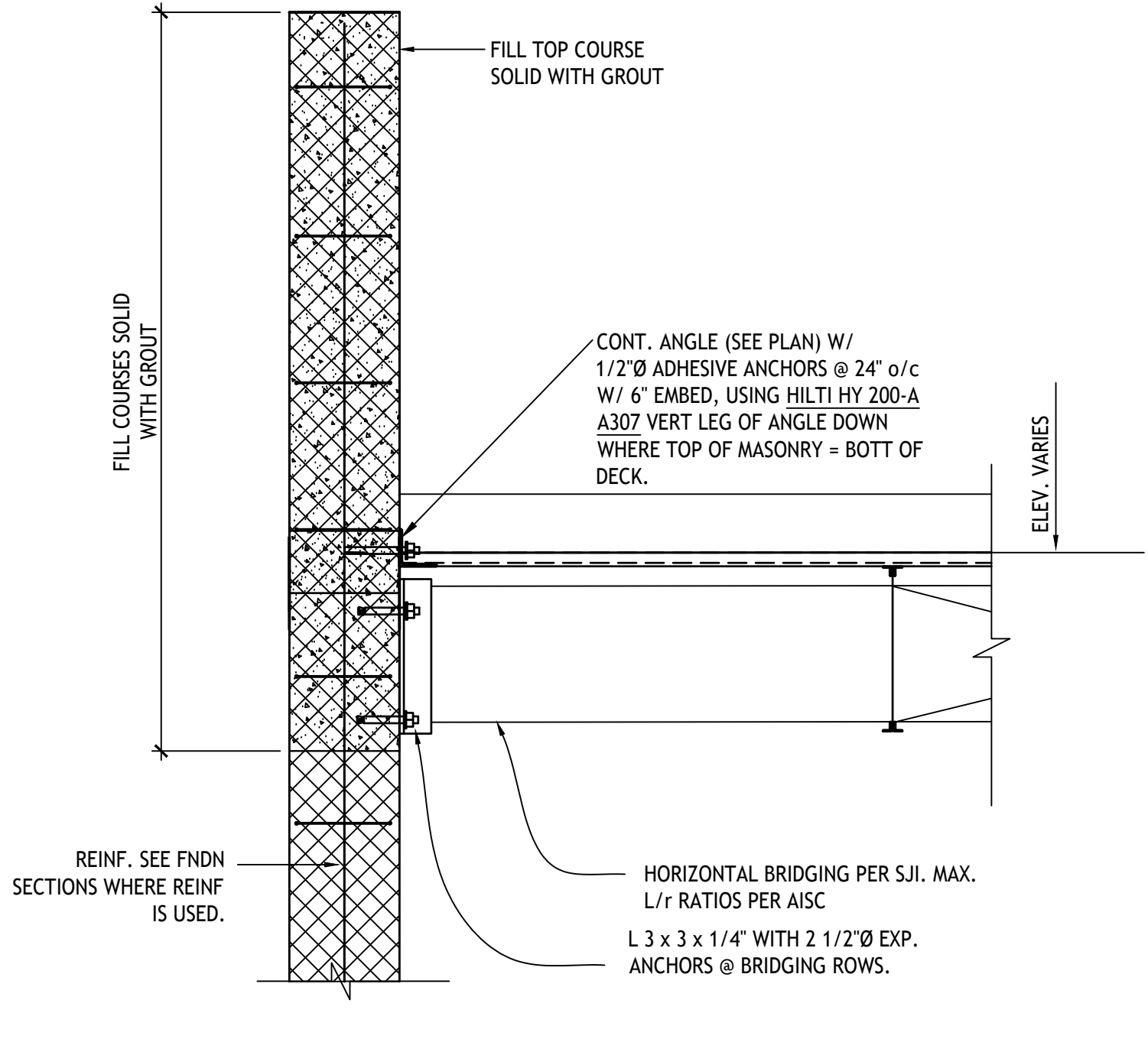
2 JOIST BEARING
SCALE: 3/4" = 1'-0"



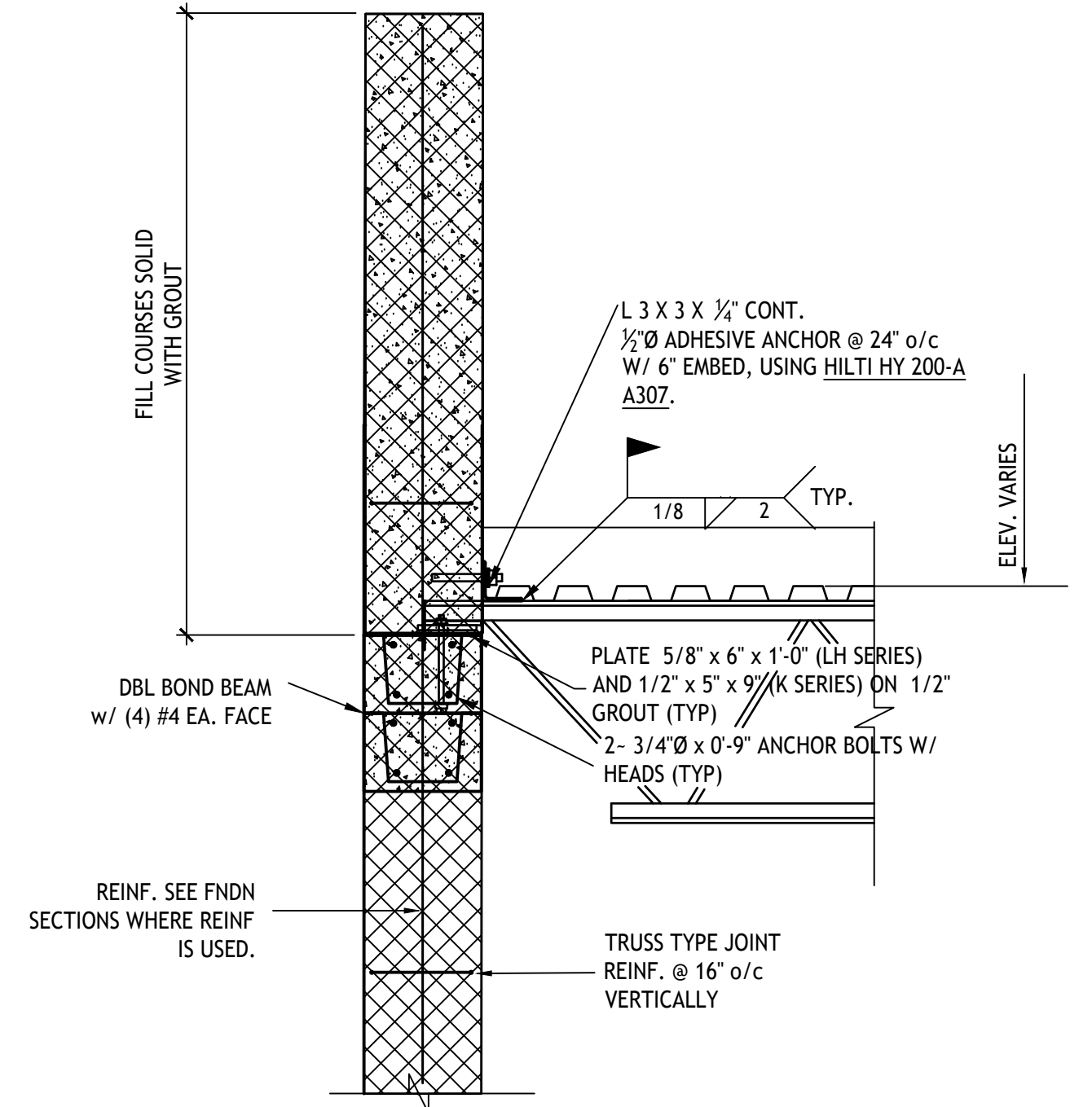
4 TYPICAL EDGE OF ROOF DECK
SCALE: 3/4" = 1'-0"



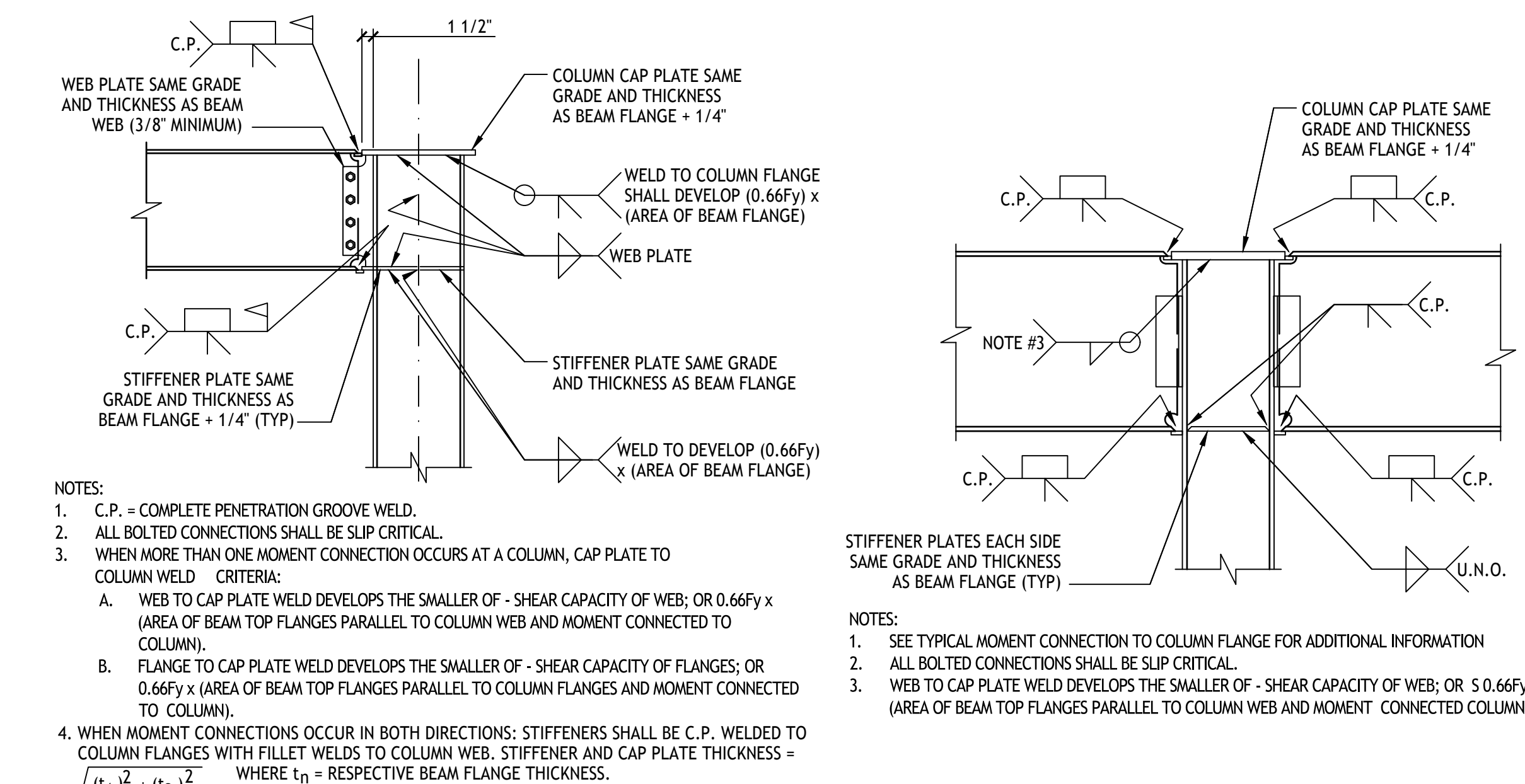
5 WALL SECTION
SCALE: 3/4" = 1'-0"



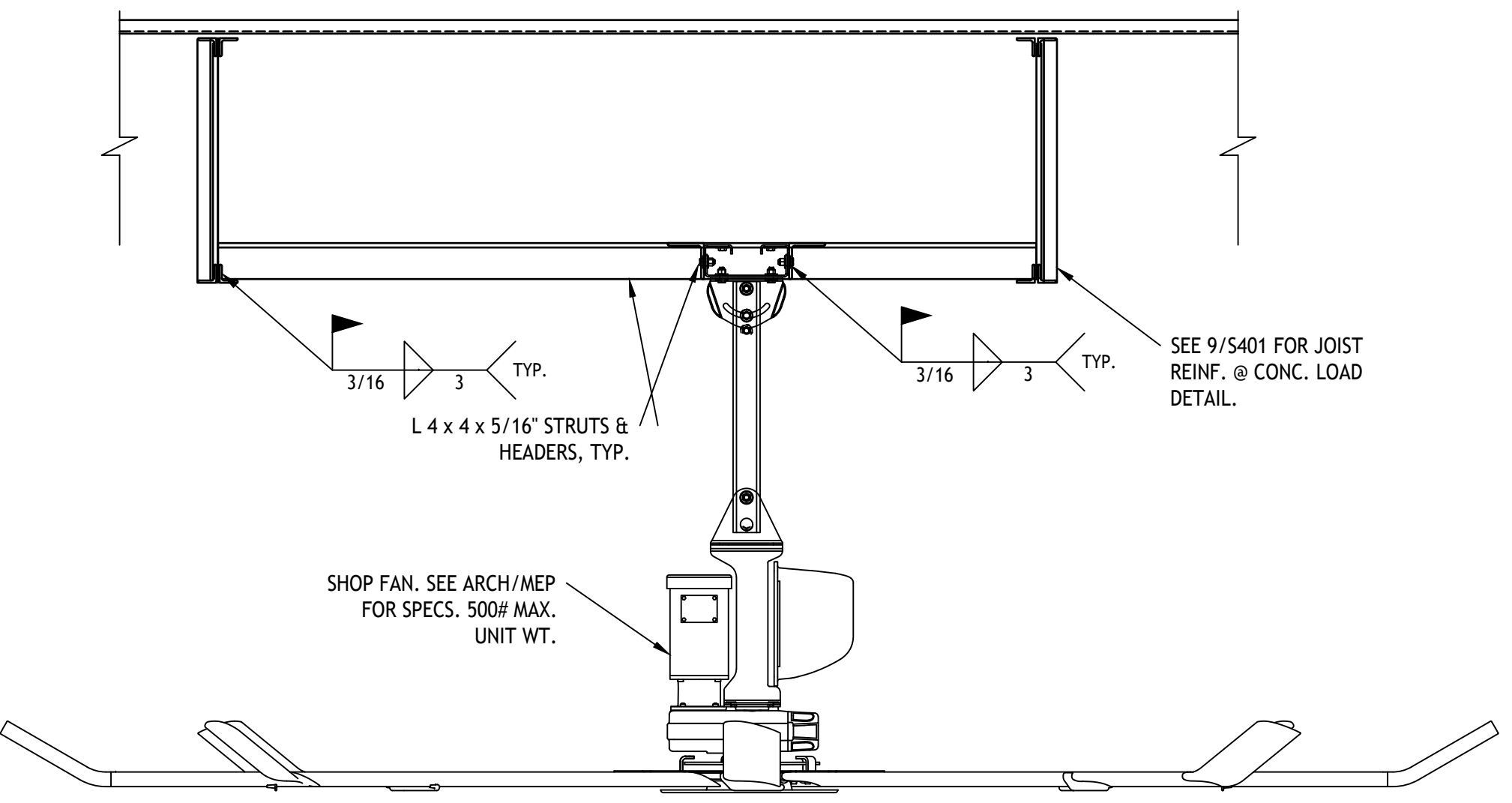
7 WALL SECTION
SCALE: 3/4" = 1'-0"



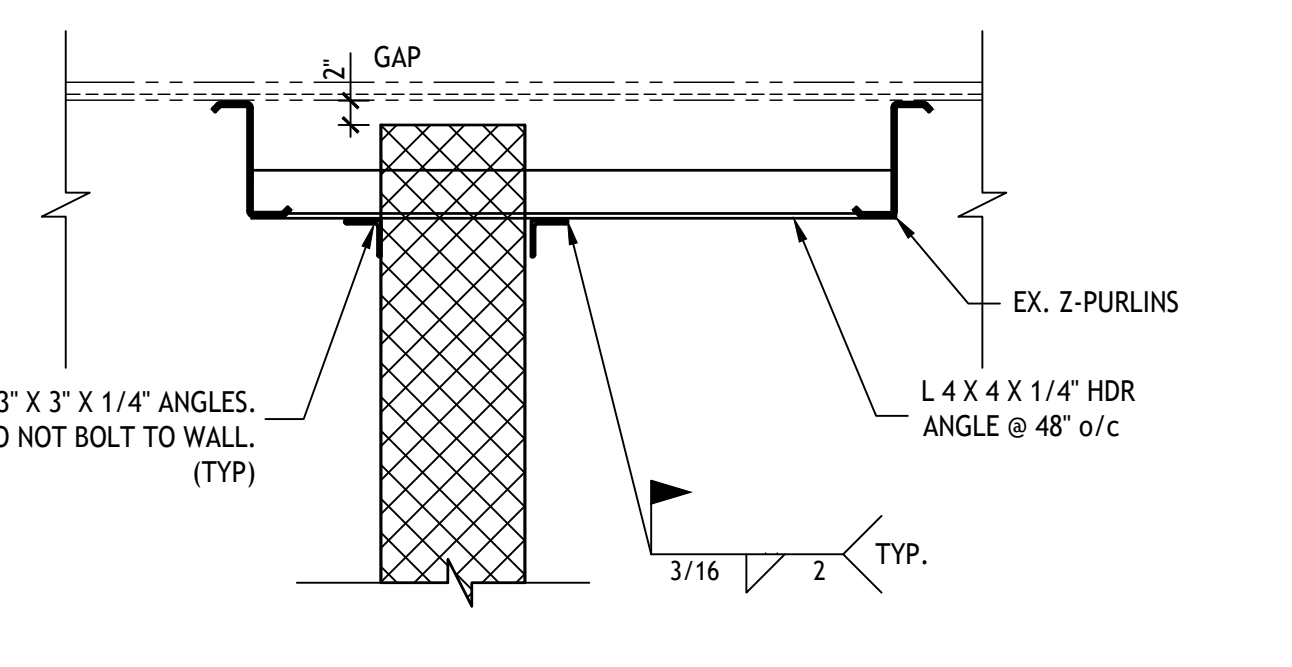
8 WALL SECTION
SCALE: 3/4" = 1'-0"



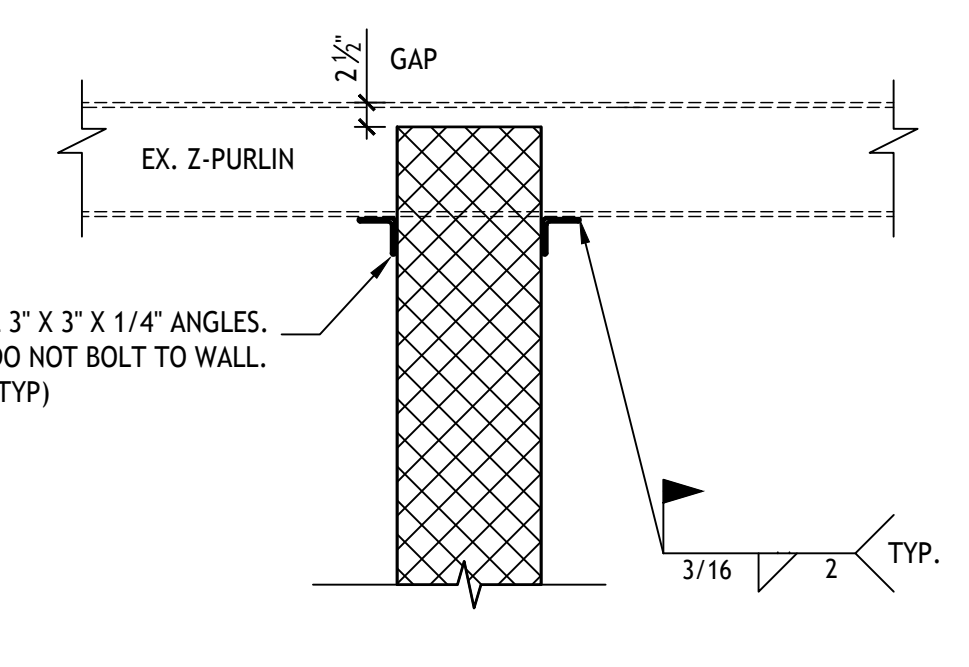
9 MOMENT CONNECTIONS AT TOP OF COLUMN
SCALE: 3/4" = 1'-0"



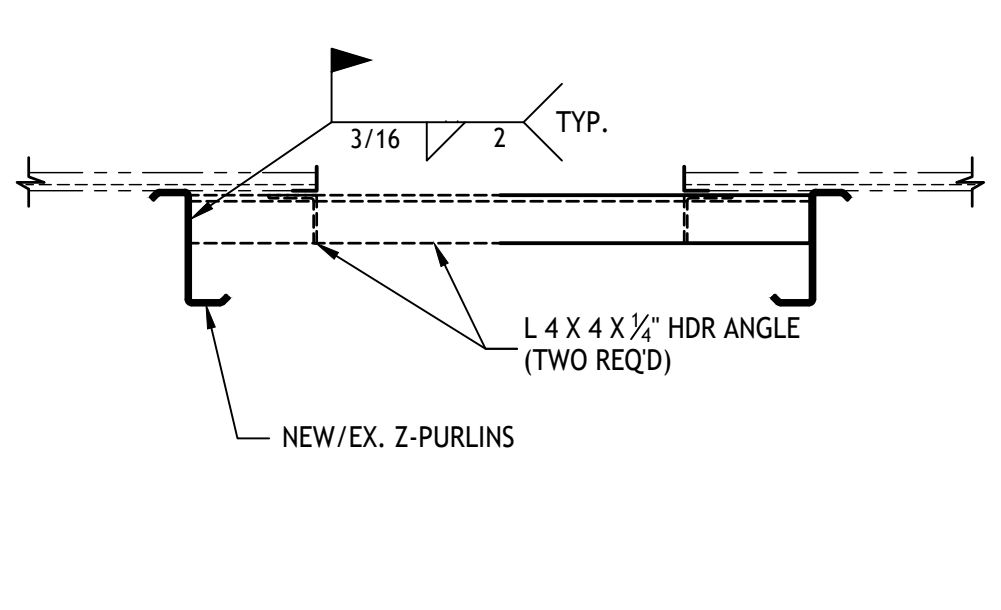
12 LARGE FAN @ SERVICE SHOP
SCALE: 3/4" = 1'-0"



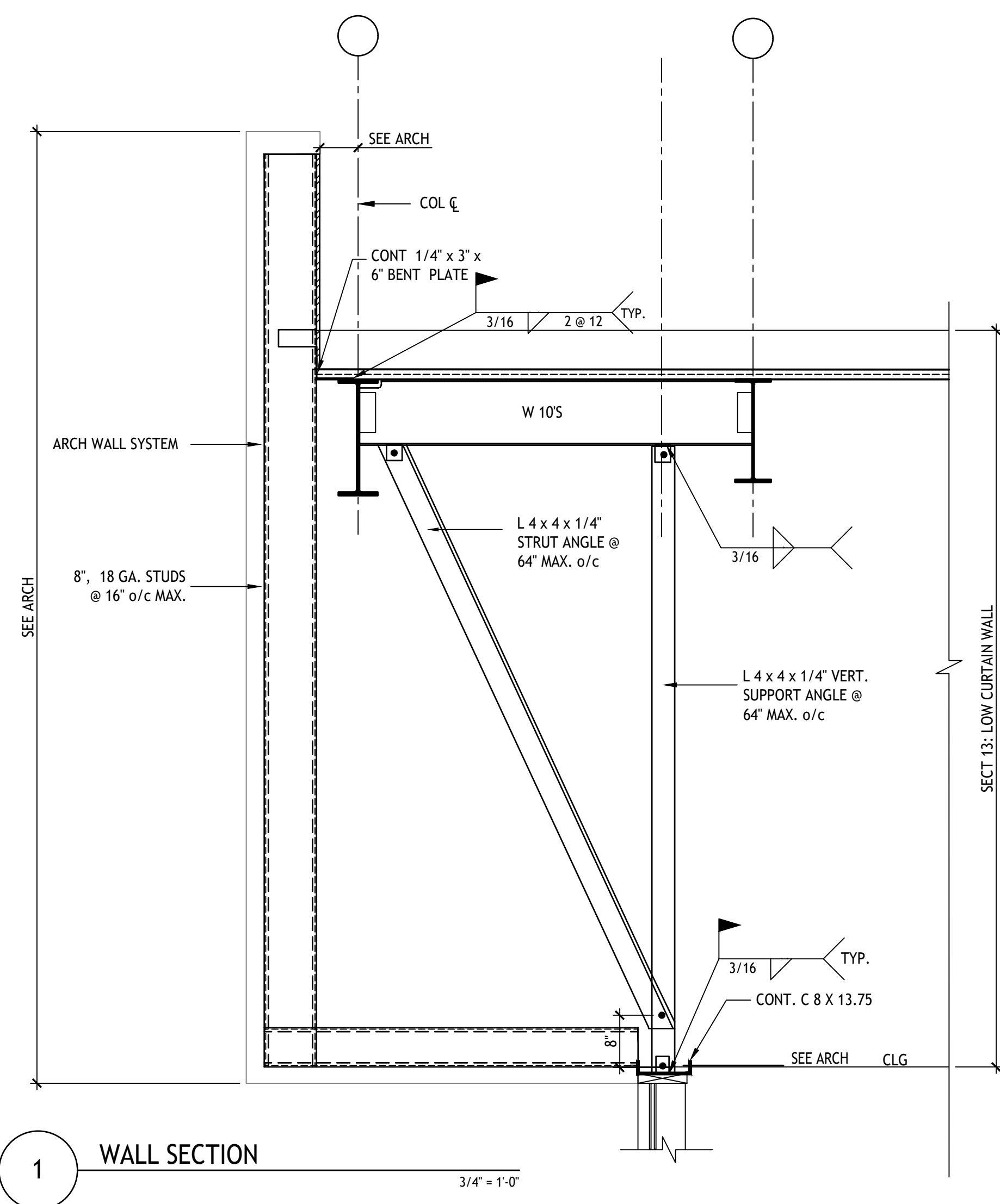
13 CMU BRACING PARALLEL TO EX. PURLINS
SCALE: 3/4" = 1'-0"



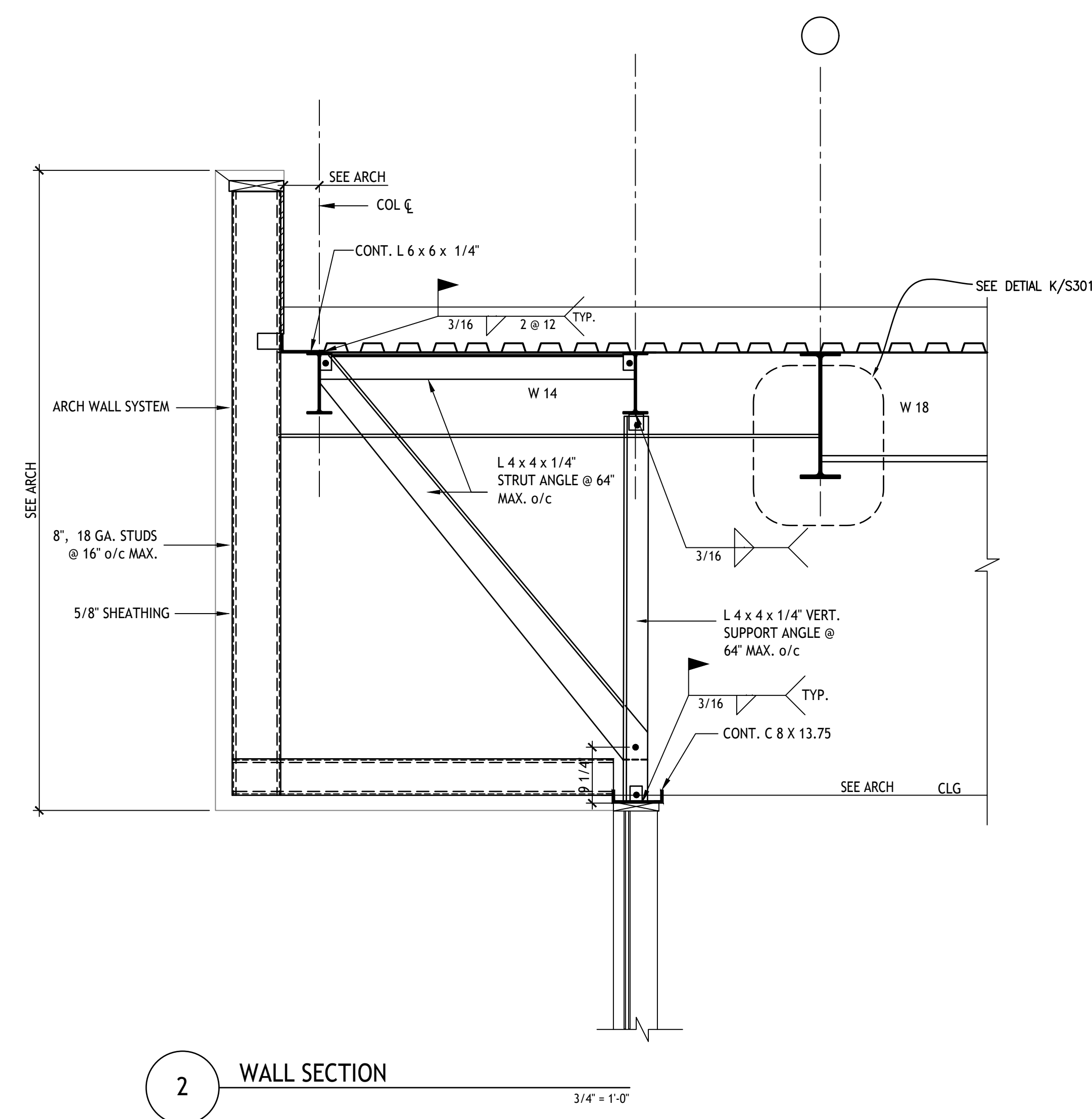
14 CMU BRACING PERPENDICULAR TO EX. PURLINS
SCALE: 3/4" = 1'-0"



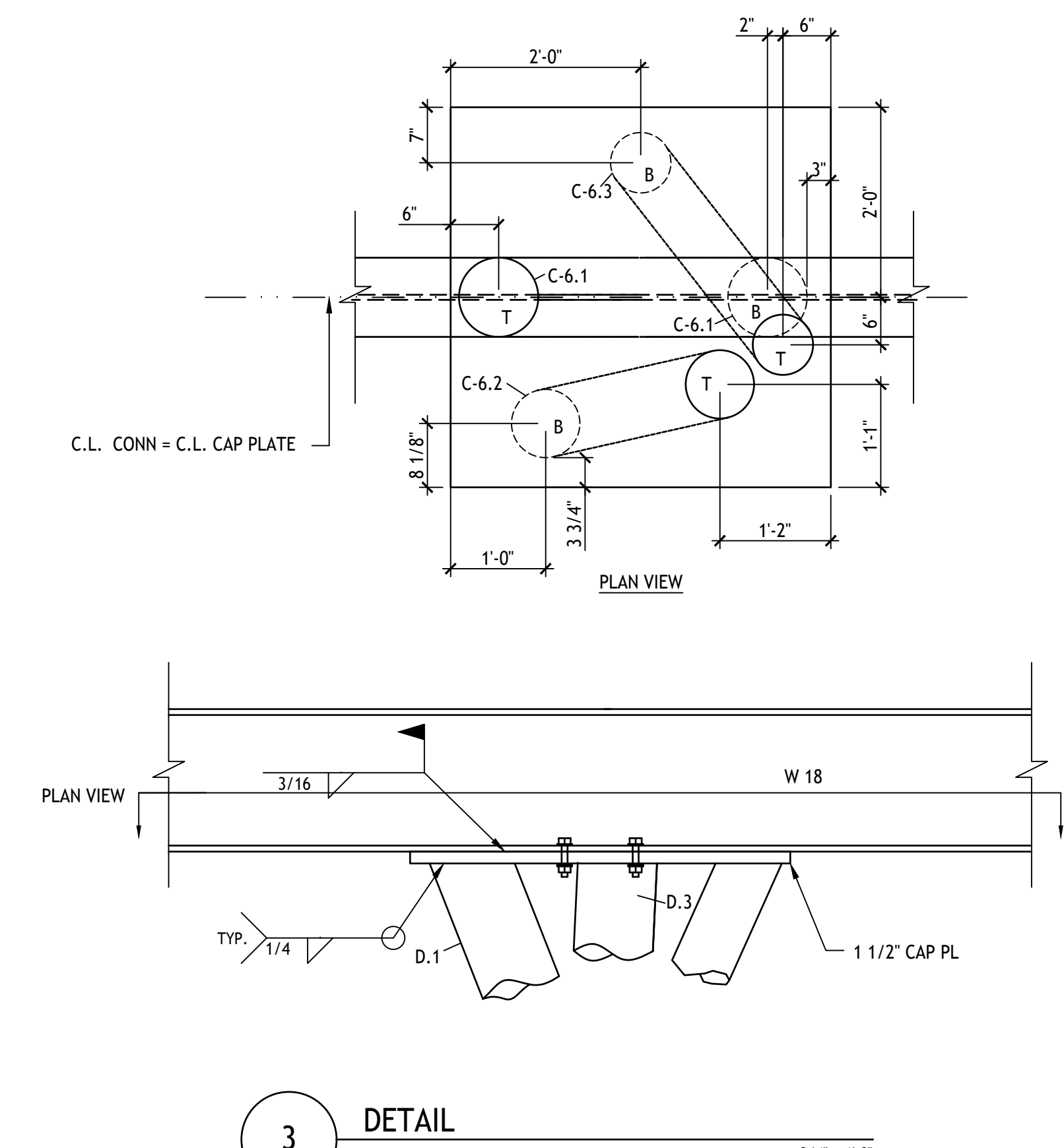
15 TYP. ROOF OPENING AT EXISTING Z-PURLINS
SCALE: 3/4" = 1'-0"



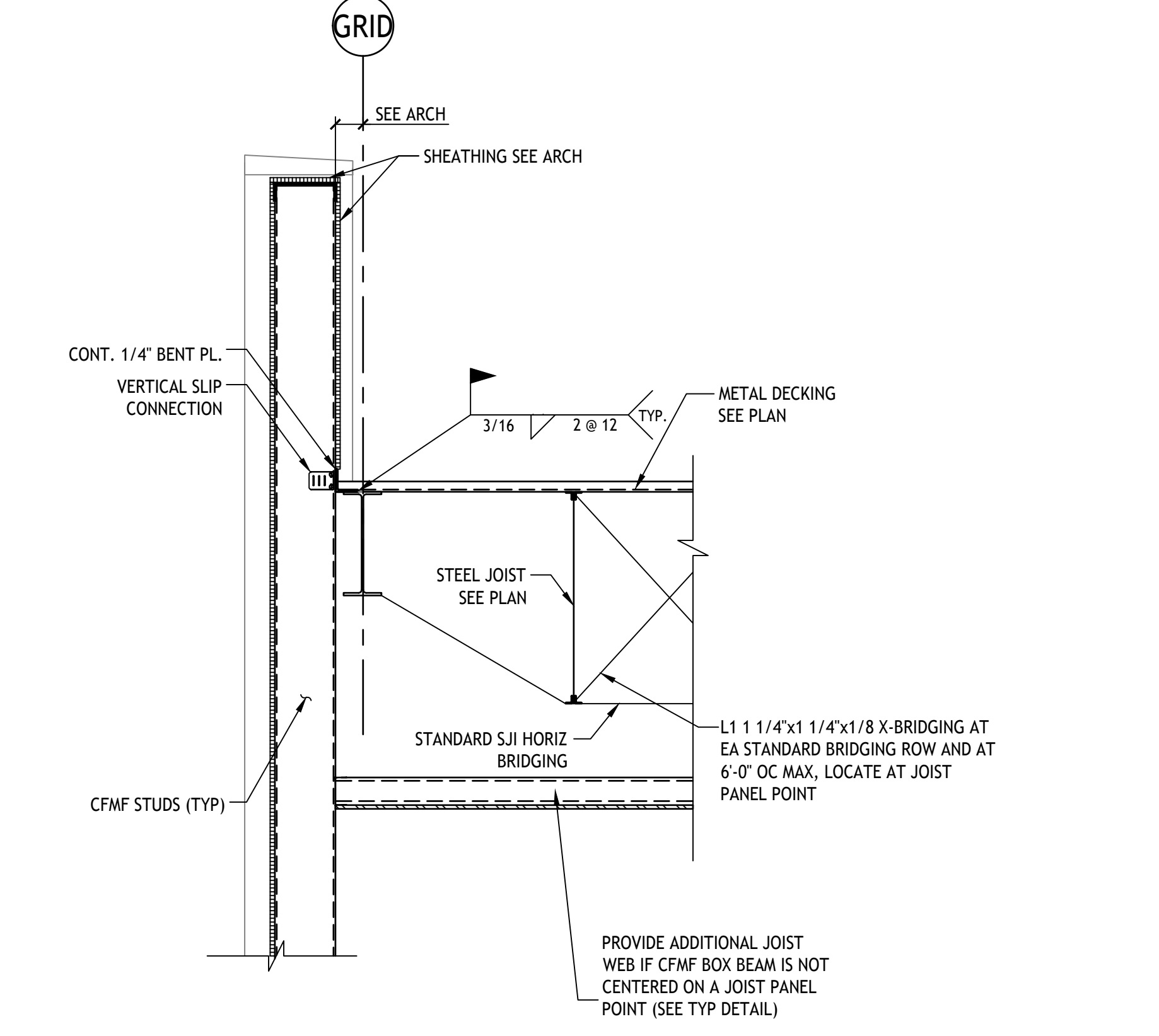
1 WALL SECTION
3/4" = 1'-0"



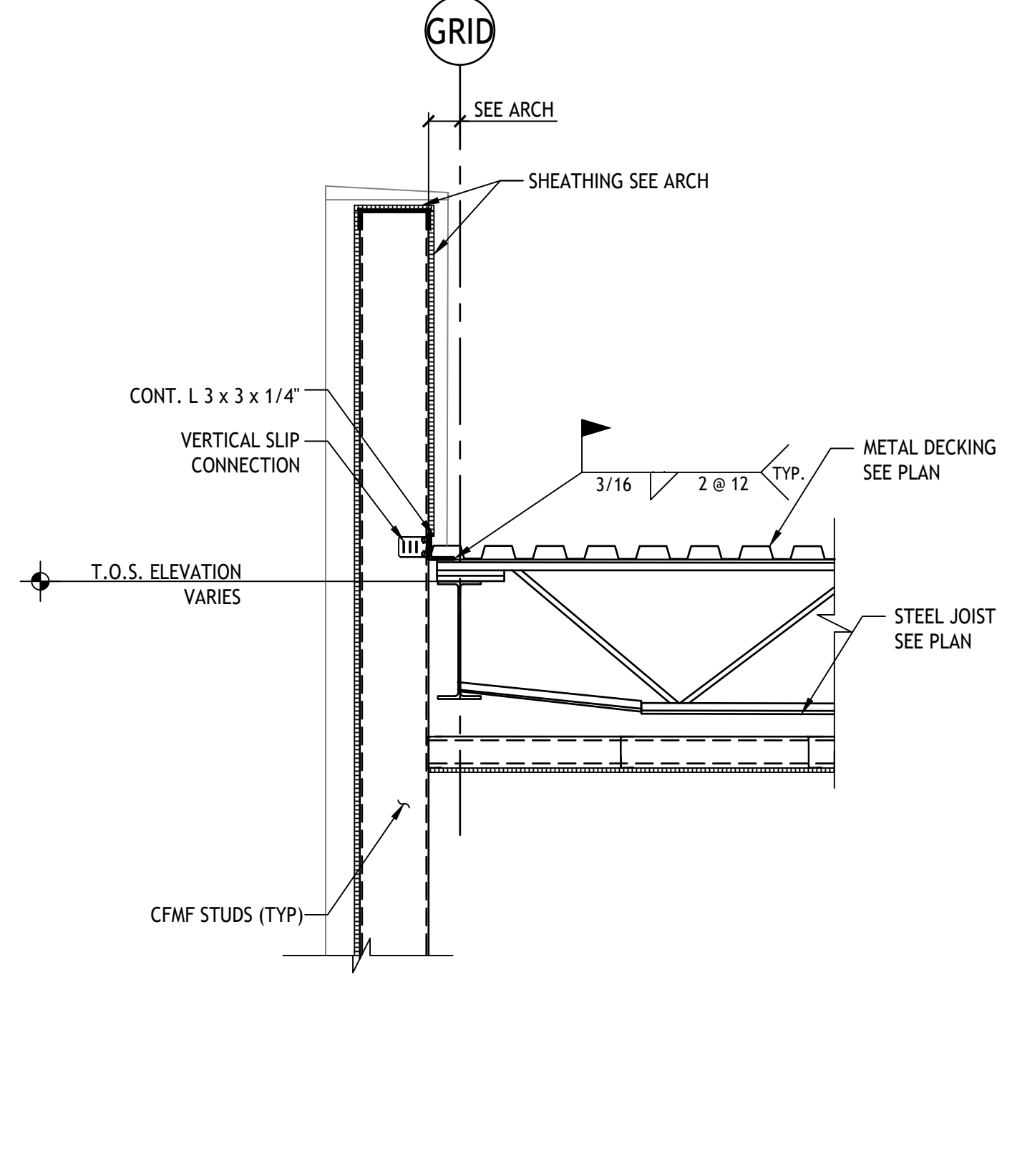
2 WALL SECTION
3/4" = 1'-0"



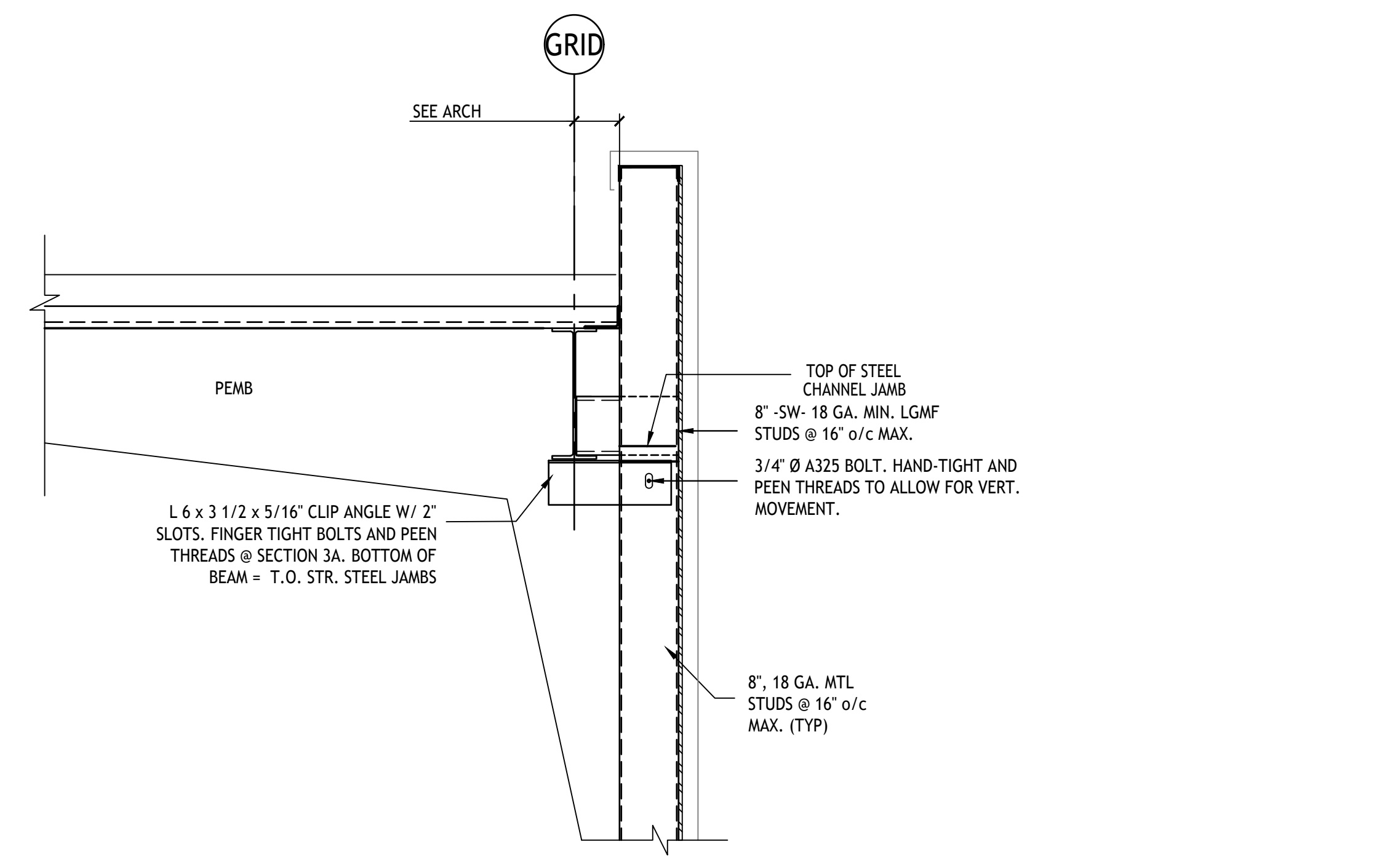
3 DETAIL
3/4" = 1'-0"



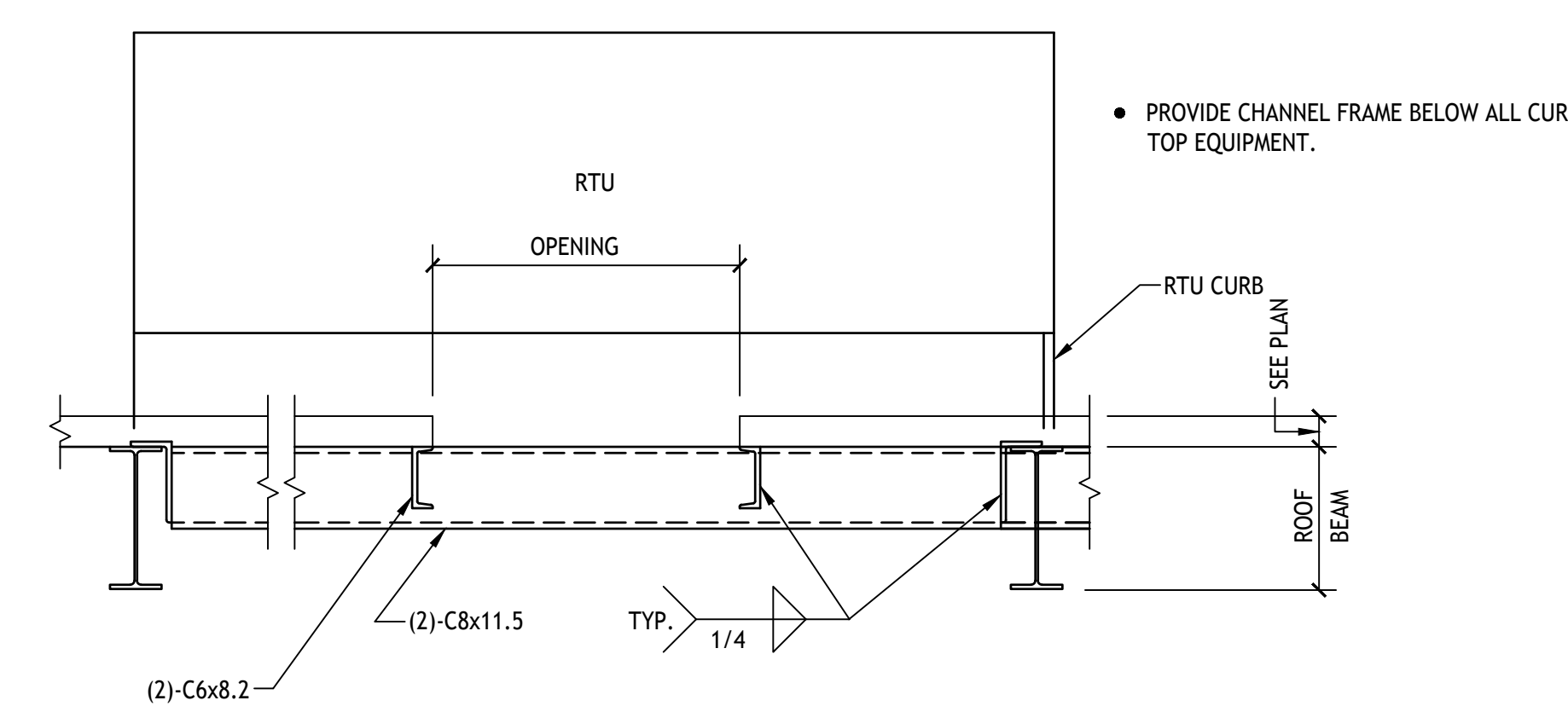
6 WALL SECTION
3/4" = 1'-0"



7 WALL SECTION
3/4" = 1'-0"



11 WALL SECTION
3/4" = 1'-0"



10 OPENING IN METAL ROOF DECK
SCALE: 3/4" = 1'-0"

- STEEL CONTRACTOR SHALL COORDINATE ALL OPENING SIZES AND LOCATIONS WITH THE MECHANICAL AND ELECTRICAL CONTRACTOR PRIOR TO FABRICATION AND INSTALLATION OF FLOOR.
- 16 GAUGE DECK CLOSURE AT ALL OPENINGS
- 4" x 8" x 1/2" CLIP ANGLE
- SEE ARCH., MECH. AND ELECT. DRAWINGS FOR SIZE AND LOCATION OF OPENINGS AND UNIT CURBS FOR ALL ROOF TOP EQUIPMENT.

• PROVIDE CHANNEL FRAME BELOW ALL CURBS OF ROOF TOP EQUIPMENT.

Bid Set	2023.07.27
No. Issue / Revision	Date
Drawn By:	HAG
Checked By:	MWD
Plot Date:	July 28, 2023