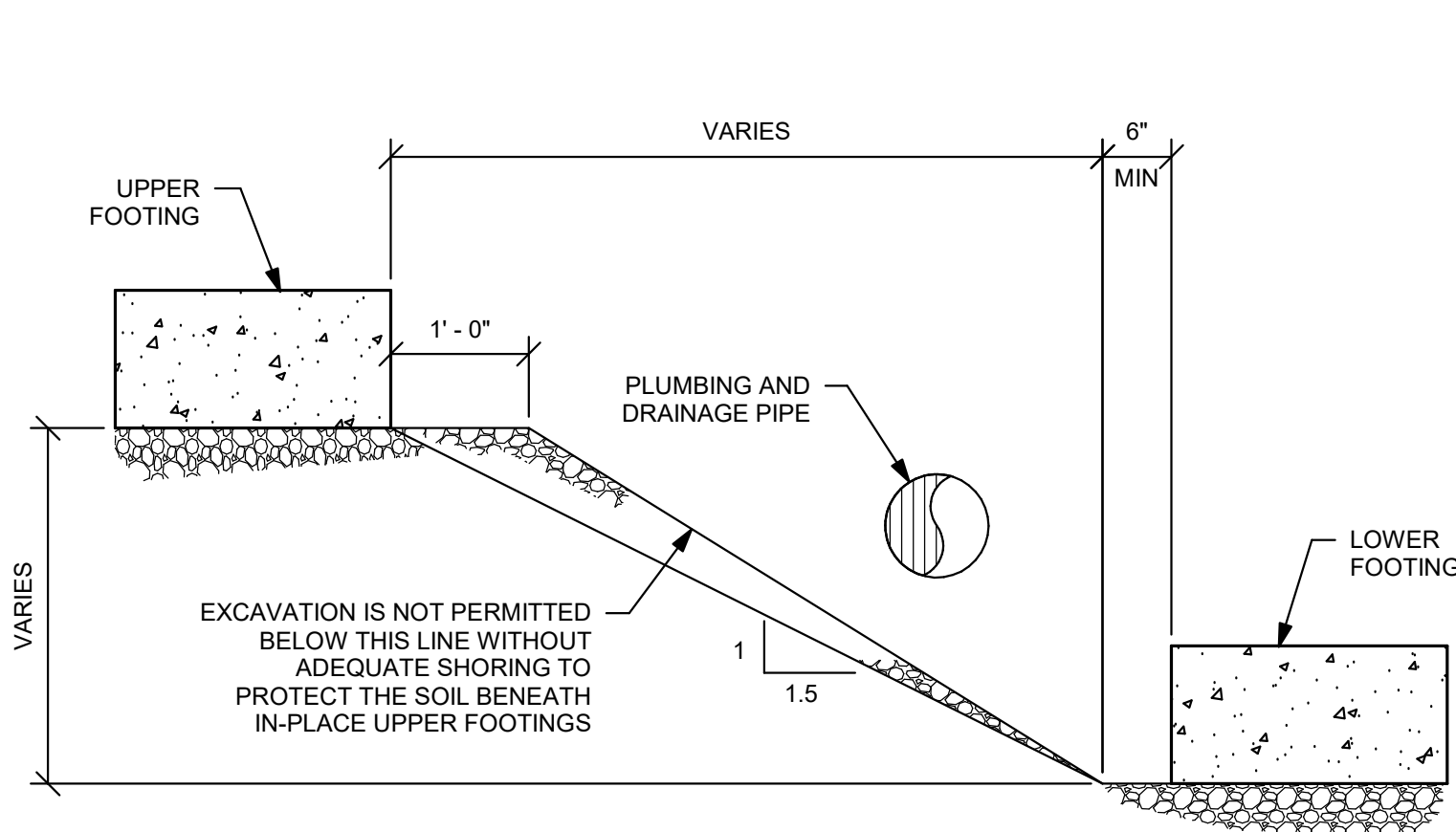
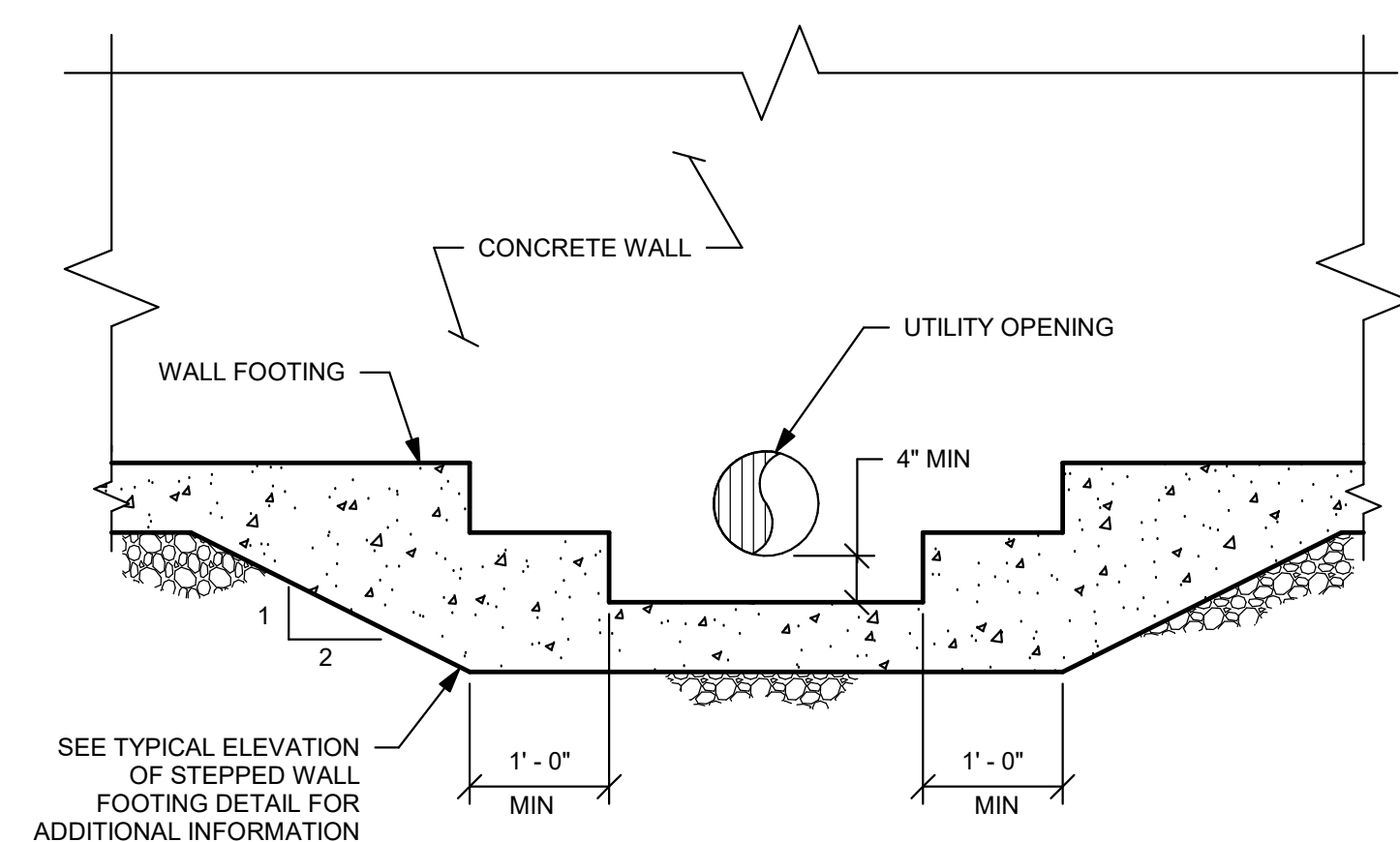


**TYPICAL ELEVATION OF STEPPED WALL FOOTING DETAIL**

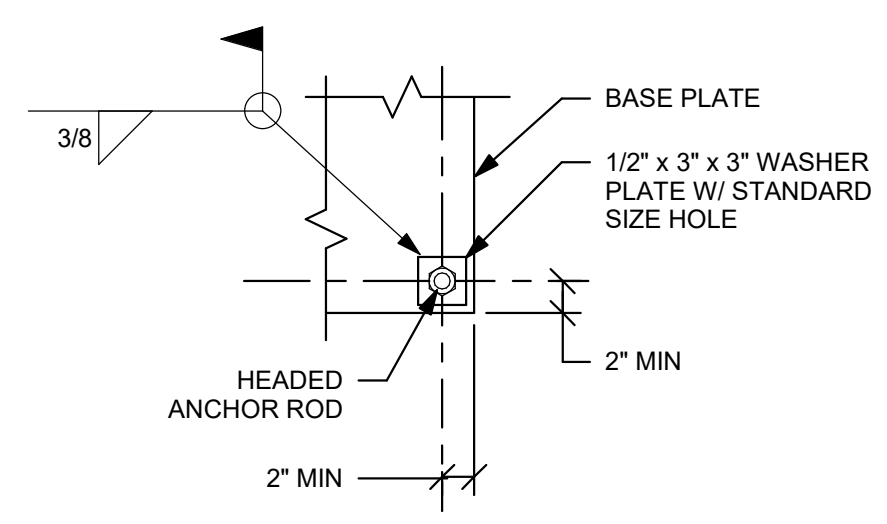


**TYPICAL SLOPE BETWEEN FOOTINGS DETAIL**



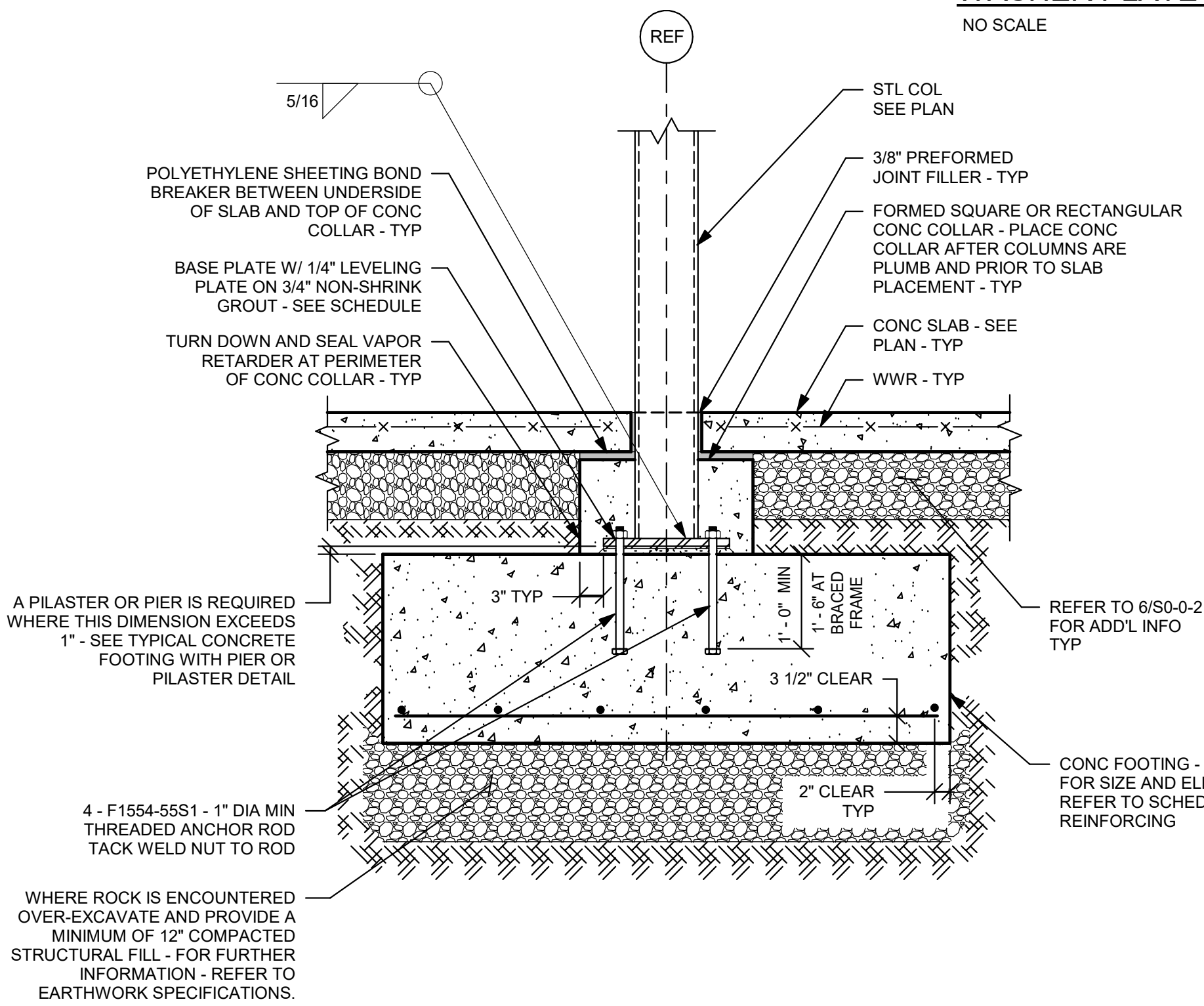
**TYPICAL ELEVATION OF STEPPED WALL FOOTING AT UTILITY OPENING DETAIL**

NOTE:  
STEP FOOTING AS REQUIRED TO BE BELOW UTILITY OPENING.  
COORDINATE WITH ALL CONTRACT DESIGN DISCIPLINES FOR  
UTILITY OPENING SIZES, PLAN LOCATIONS AND ELEVATIONS.

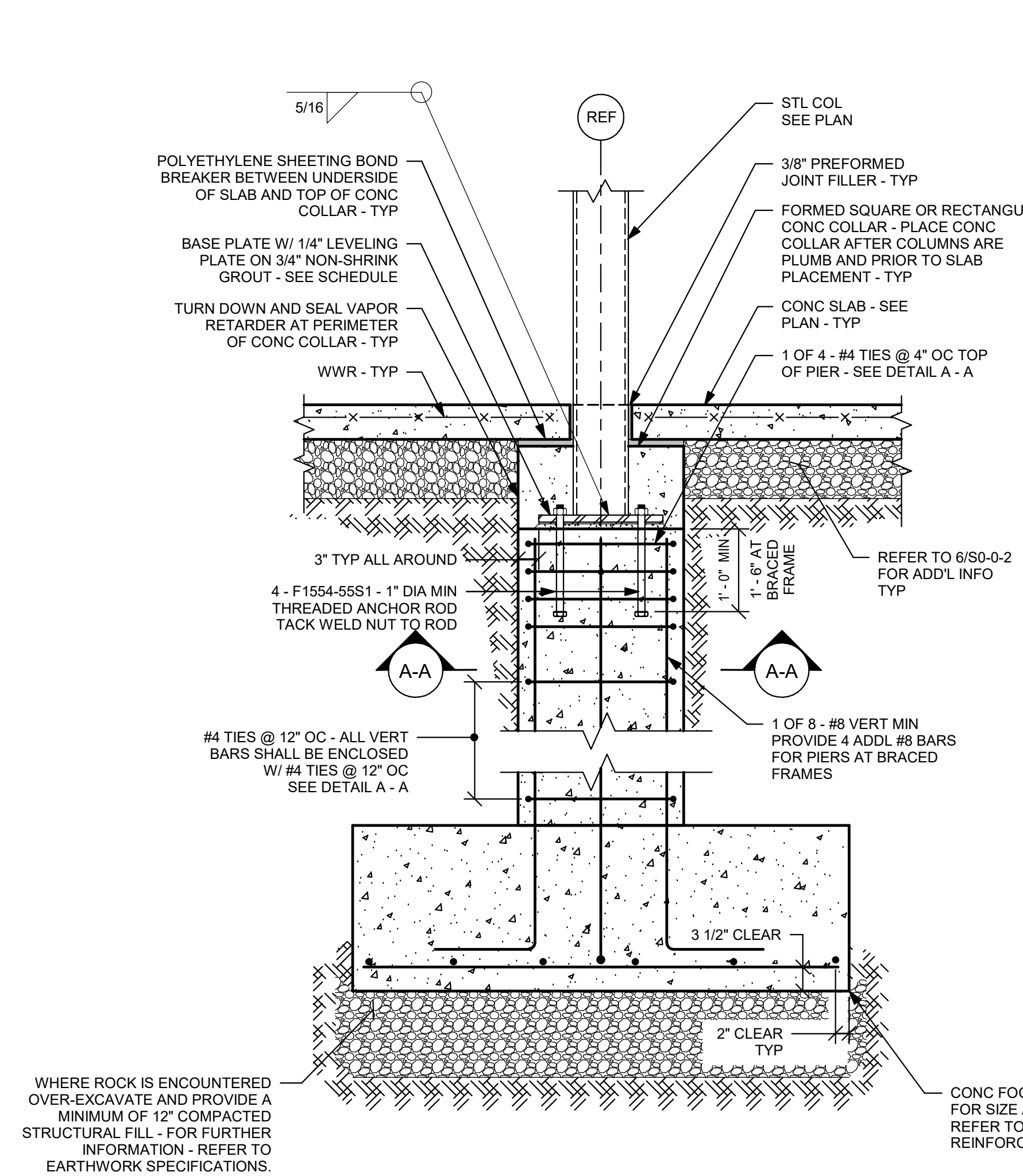


**WASHER PLATE DETAIL**

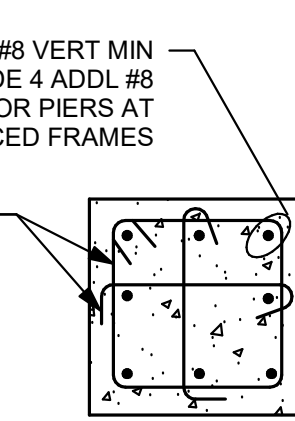
NO SCALE



**TYPICAL CONCRETE FOOTING WITHOUT PIER OR PILASTER DETAIL**



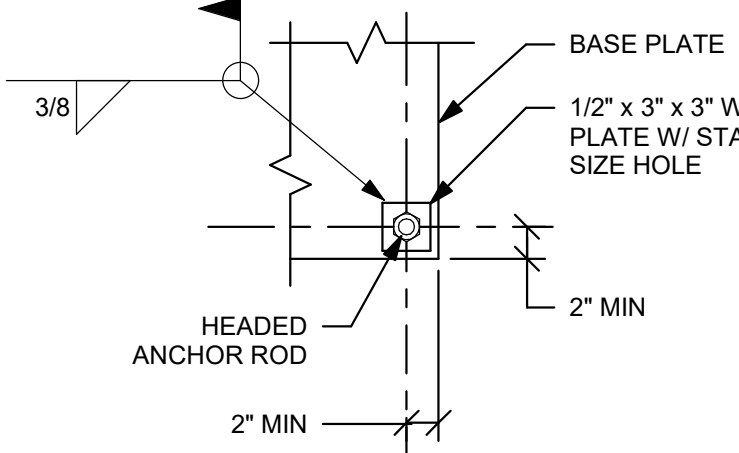
**TYPICAL CONCRETE FOOTING WITH PIER OR PILASTER DETAIL**



**TYPICAL PIER DETAIL A - A**

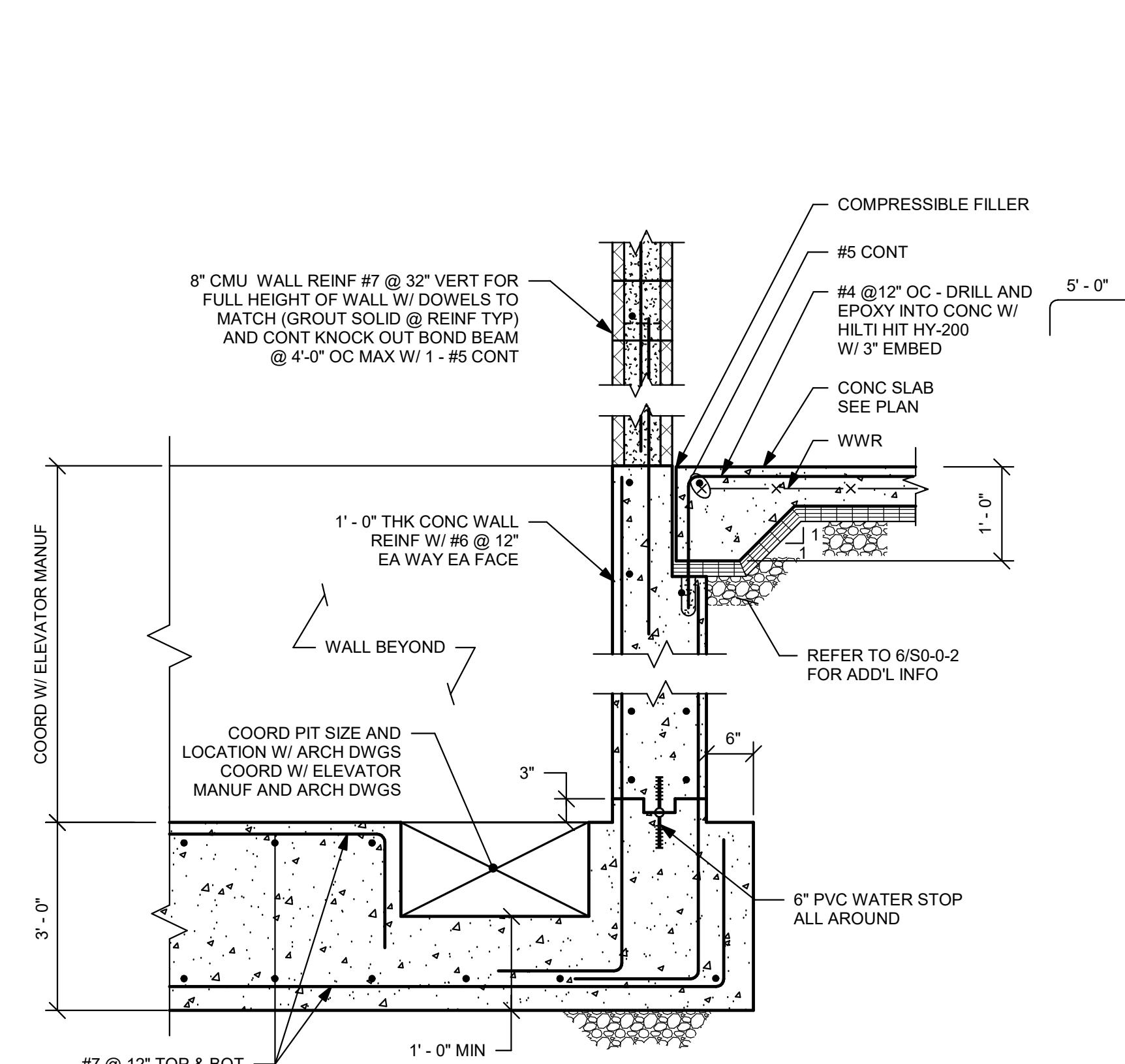
NO SCALE

NOTE:  
OFFSET PIER 3" FROM BASE PLATE ON ALL SIDES. NOTE, PIER DIMENSIONS AT BRACED FRAME LOCATIONS SHALL BE COORDINATED WITH BASE PLATE AND LEVELING PLATE SIZES.



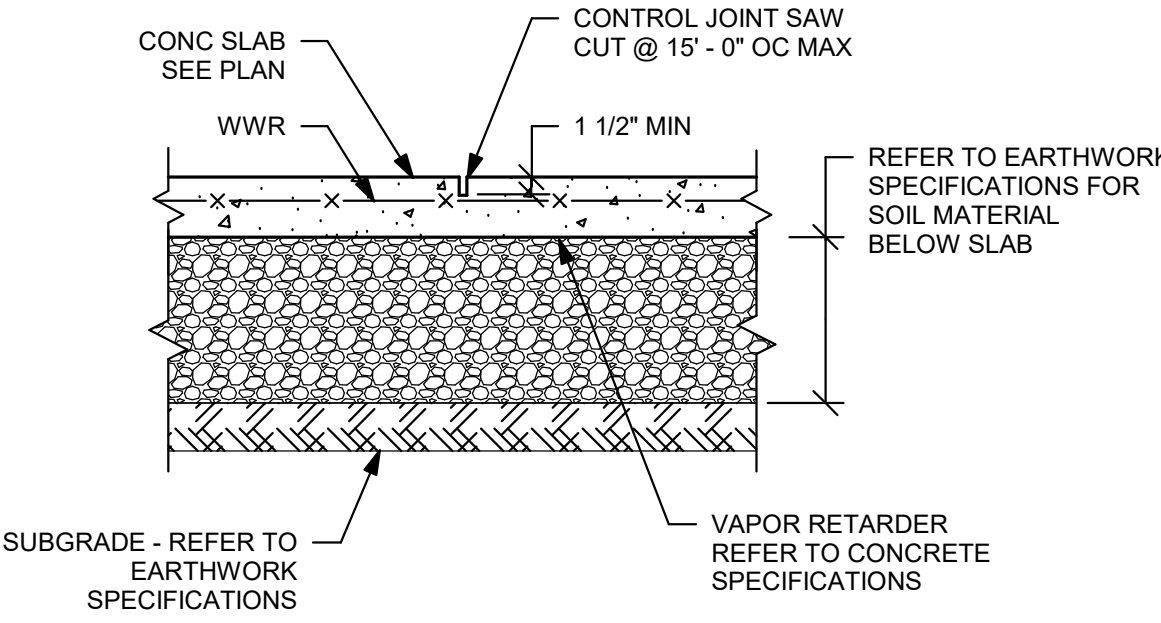
**WASHER PLATE DETAIL**

NO SCALE



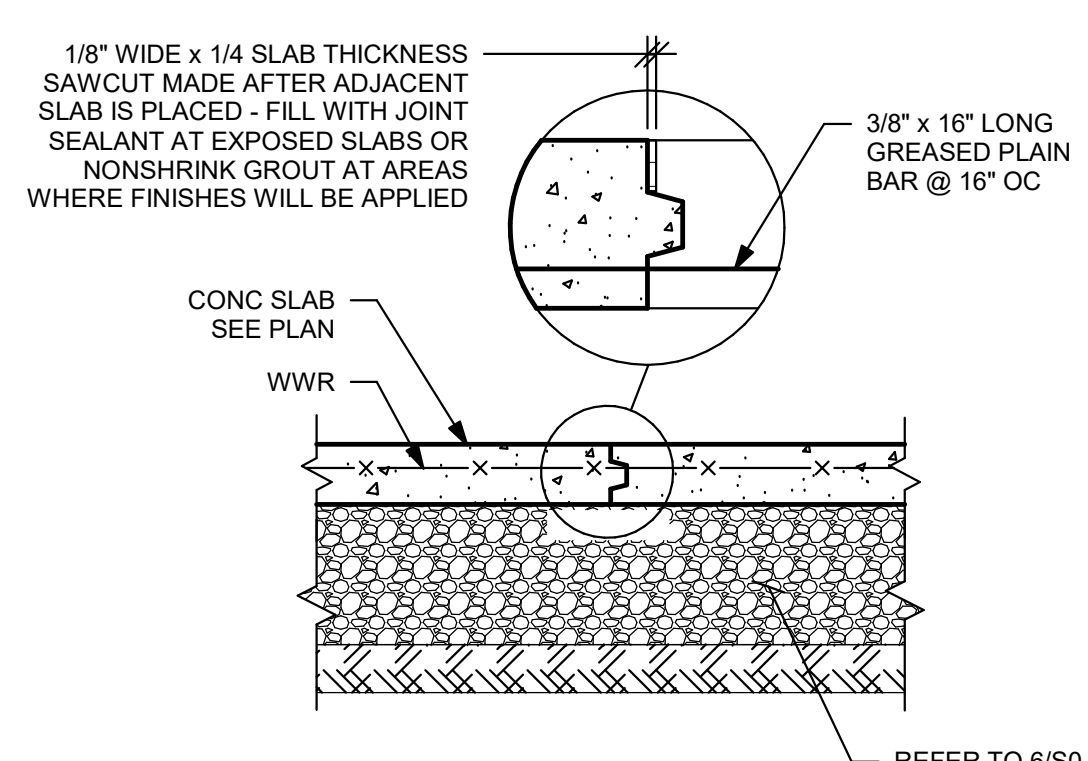
**ELEVATOR PIT DETAIL**

NOTES:  
1) COORDINATE ELEVATOR PIT DIMENSIONS WITH ELEVATOR MANUFACTURER AND ARCHITECTURAL DRAWINGS.  
2) SEE ARCH DWGS FOR SILL ANGLE AND COORD WITH ELEV MANUFACTURER.



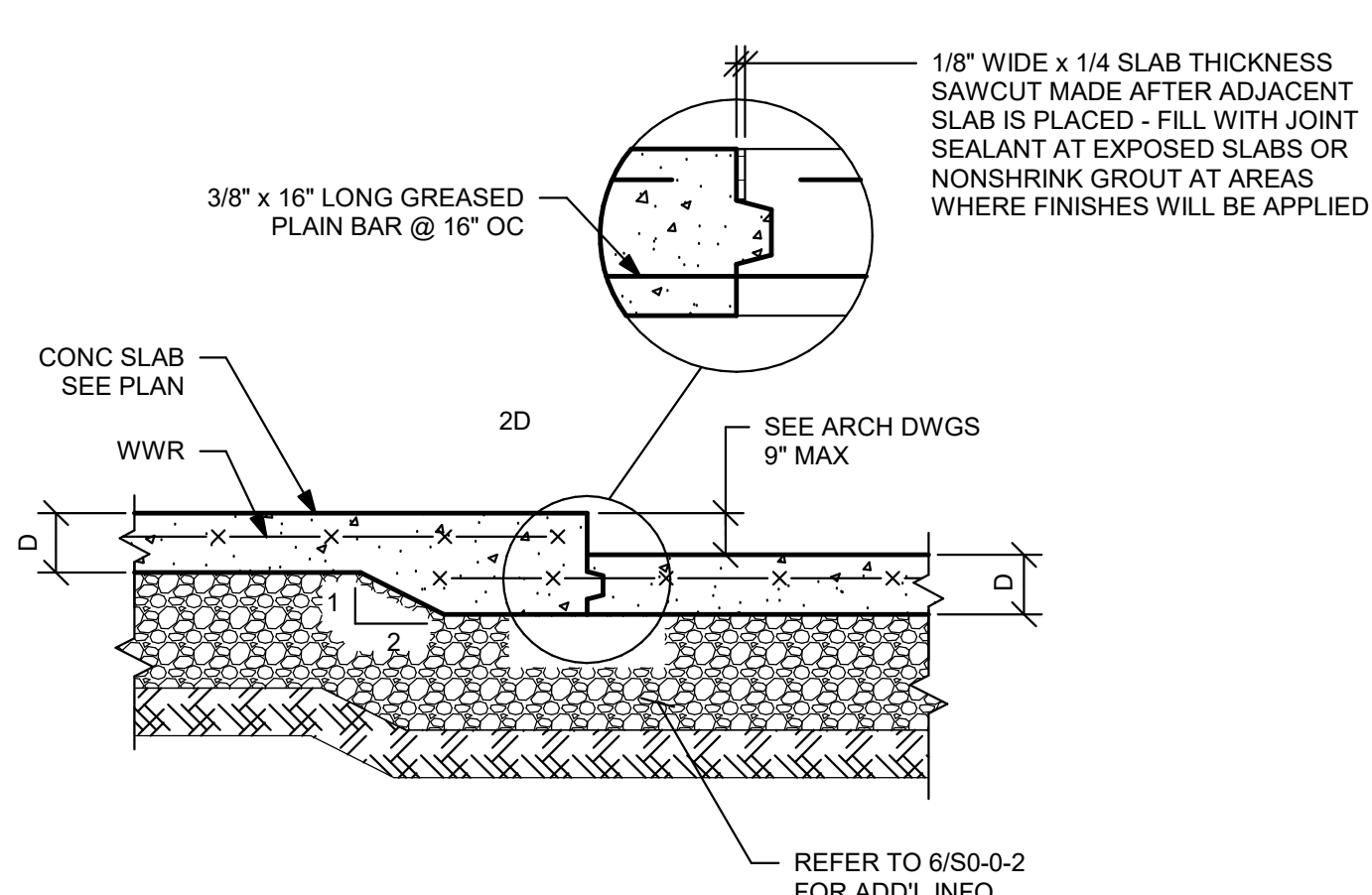
**TYPICAL SLAB ON GRADE AND CONTROL JOINT DETAIL**

NOTES:  
1) SUBMIT A PLAN SHOWING PROPOSED LOCATIONS OF ALL THE CONTROL JOINTS AND CONSTRUCTION JOINTS FOR REVIEW BY THE ENGINEER PRIOR TO PLACEMENT OF CONCRETE FOR THE SLAB. CONTROL JOINTS SHALL TERMINATE AT SLAB EDGE OR CONSTRUCTION JOINT.  
2) PROVIDE SUPPORT FOR WWR AT 3' - 0" ON CENTER MAXIMUM, EACH WAY.



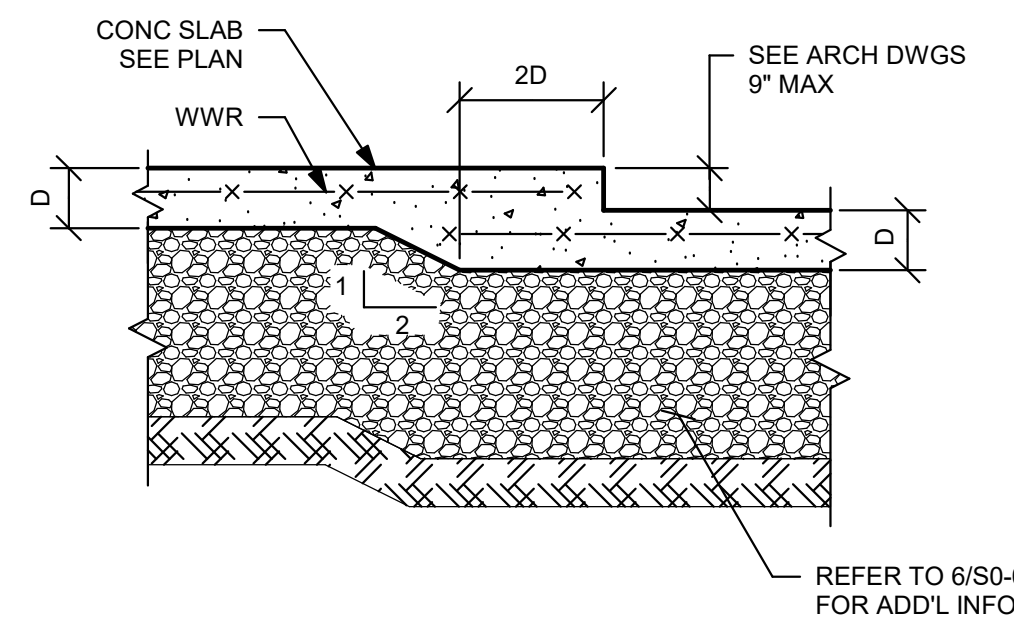
**TYPICAL SLAB ON GRADE CONSTRUCTION JOINT DETAIL**

NOTE:  
SUBMIT A PLAN SHOWING PROPOSED LOCATIONS OF ALL THE CONTROL JOINTS AND CONSTRUCTION JOINTS FOR REVIEW BY THE ENGINEER PRIOR TO PLACEMENT OF CONCRETE FOR THE SLAB.

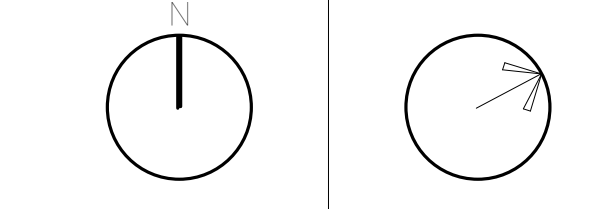
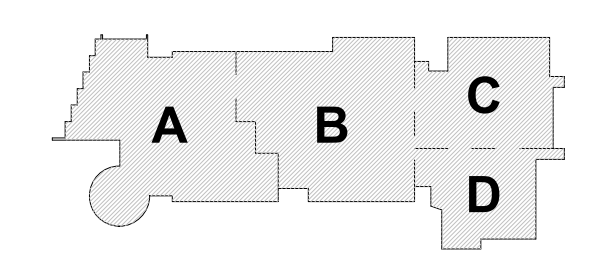


**TYPICAL DEPRESSED SLAB ON GRADE CONSTRUCTION JOINT DETAIL**

NOTE:  
SUBMIT A PLAN SHOWING PROPOSED LOCATIONS OF ALL THE CONTROL JOINTS AND CONSTRUCTION JOINTS FOR REVIEW BY THE ENGINEER PRIOR TO PLACEMENT OF CONCRETE FOR THE SLAB.



**TYPICAL DEPRESSED SLAB ON GRADE DETAIL**





1

NO SCALE



2

NO SCALE



3

NO SCALE



(4)

NO SCALE



5

NO SCALE



6

TYPICAL SECTION AT  
STAIR STRINGER SUPPORT

NO SCALE



## NOTES

- 1.) REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR LOCATION AND ADDITIONAL INFORMATION.
- 2.) REFER TO PLUMBING DRAWINGS FOR PIT DIMENSIONS.
- 3.) COORDINATE COVER GRATING WITH METAL FABRICATIONS AND ARCHITECTURAL DRAWINGS.

7

NO SCALE



8

NO SCALE

NOTES:

- 1) FOR TOP OF WALL ELEVATIONS, GRADES AND FINISHES, FOOTING DRAINS, SEE ARCHITECTURAL, CIVIL AND SITE DRAWINGS.
- 2) ALL REINFORCEMENT TO BE ASTM GRADE 60.
- 3) ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI UNLESS NOTED OTHERWISE.
- 4) REFER TO SPECIFICATION SECTION 03300 FOR CONCRETE REQUIREMENTS.
- 5) REFER TO THE FOLLOWING TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS:
  - A. TYPICAL ELEVATION OF STEPPED WALL FOOTING DETAIL.
  - B. TYPICAL SLOPE BETWEEN FOOTINGS DETAIL.
  - C. TYPICAL ELEVATION OF STEPPED WALL FOOTING AT UTILITY OPENING DETAIL.
  - D. TYPICAL PLAN OF HORIZONTAL REINFORCING OF CONCRETE WALLS DETAIL.
  - E. MINIMUM SLOPE AND EMBEDMENT LENGTH SCHEDULE.
- 6) WEEP HOLES SHALL BE 4" DIAMETER, GRAY, SCHEDULE 40 PVC PIPE, ALIGN WEEP HOLES WITH VERTICAL REGULETS.
- 7) REFER TO LANDSCAPE DRAWINGS FOR FENCE/RAILING SLEEVES AND CONNECTION DETAILS.
- 8) PLACE WALL WITH VERTICAL CONSTRUCTION JOINTS AT 30'-0" OC MAX PER TYPICAL DETAIL. 10 ON DRAWINGS SO-0-3.

9



NO SCALE



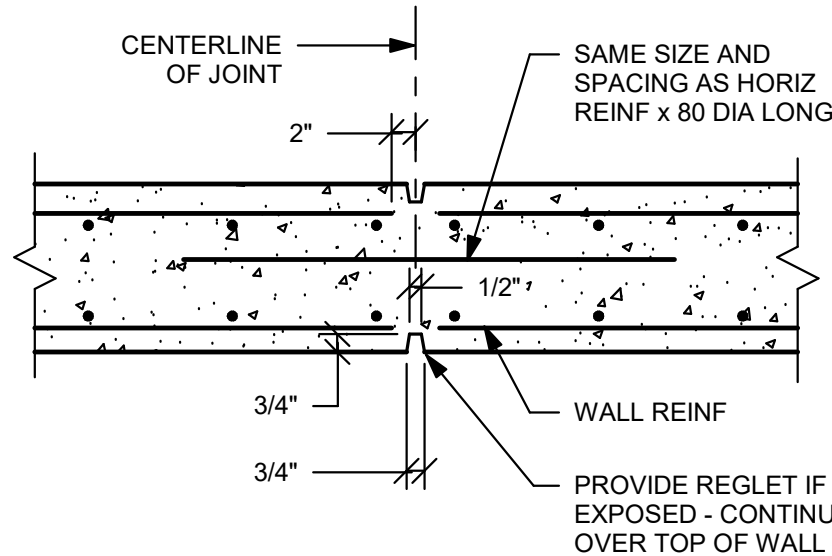
**NOTE:**  
SIMILAR AT EXTERIOR COLUMNS.

10

NO SCALE





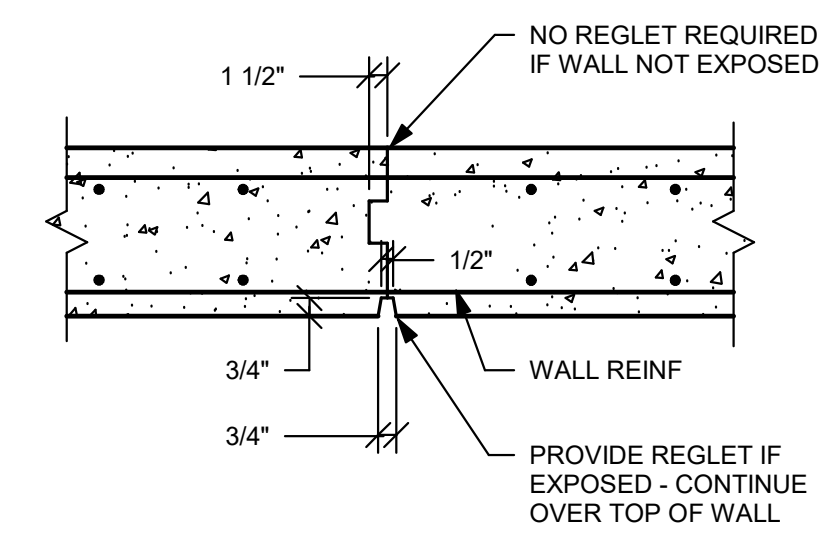


**TYPICAL CONCRETE WALL  
CONTROL JOINT DETAIL**

- NOTES:
- 1) SPACE AT 30" - 0" CENTER TO CENTER MAX.
  - 2) A CONSTRUCTION JOINT MAY BE SUBSTITUTED FOR A CONTROL JOINT, SEE CONSTRUCTION JOINT DETAIL.

1

NO SCALE

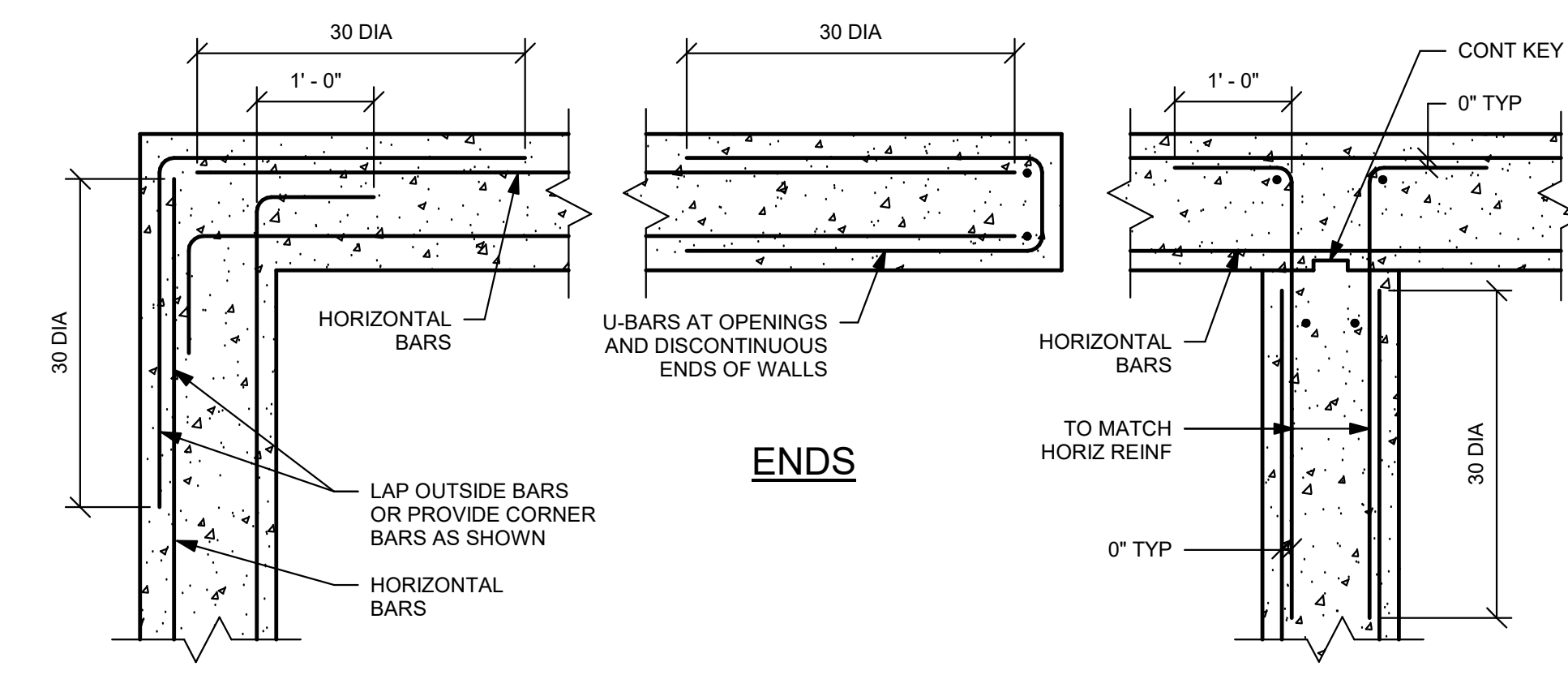


**TYPICAL CONCRETE WALL  
CONSTRUCTION JOINT DETAIL**

NOTE:  
SPACE AT 60" - 0" CENTER TO CENTER MAX.

2

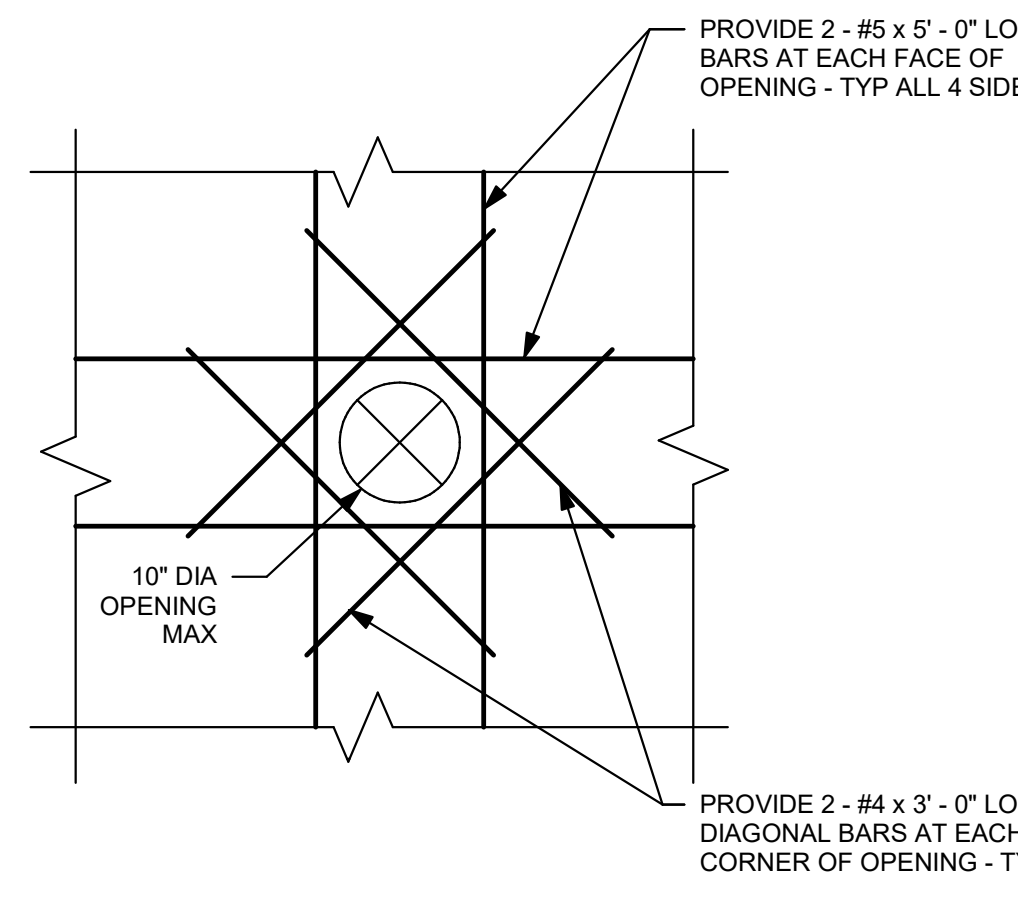
NO SCALE



**TYPICAL PLAN OF HORIZONTAL  
REINFORCING OF CONCRETE WALLS DETAIL**

3

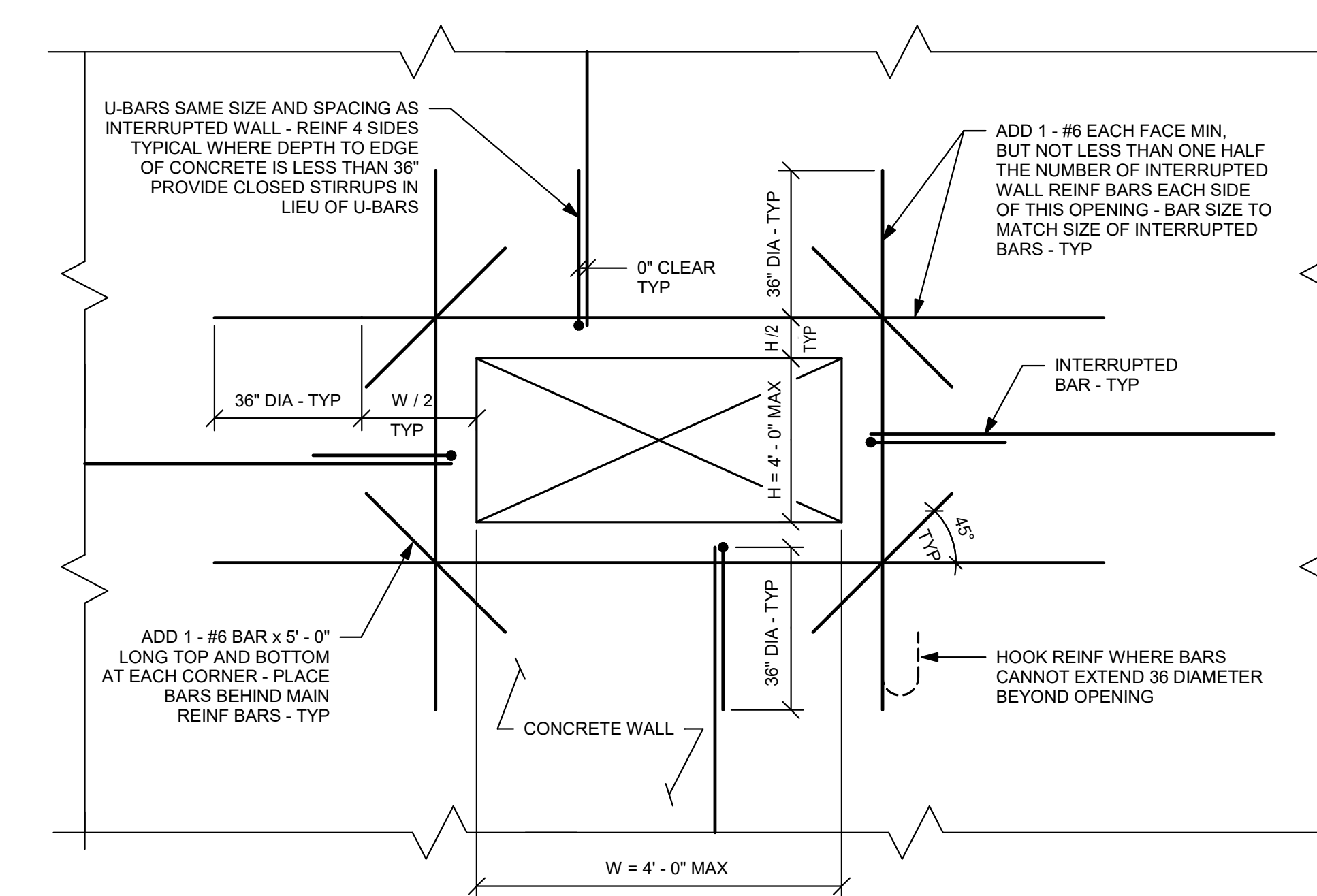
NO SCALE



NOTE:  
THE SLEEVE SHALL NOT INTERRUPT OR CUT THROUGH THE VERTICAL REINFORCING STEEL AND SHALL NOT BE PLACED IN COLUMN PIERS OR PLASTERS.

4

NO SCALE



**TYPICAL REINFORCEMENT AT OPENINGS IN  
REINFORCED CONCRETE WALLS DETAIL**

- NOTES:
- 1) FOR QUANTITY, LOCATION, AND SIZES REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS.
  - 2) TREAT EACH CONDUIT AS A SEPARATE OPENING.
  - 3) PROVIDE A MINIMUM OF 12" CLEAR CONCRETE BETWEEN TOP OF PENETRATION AND TOP OF WALL.

5

NO SCALE

BAR SIZE	ℓd PER SPACING AND COVER CASE			
	CASE 1	CASE 2	CASE 1	CASE 2
TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	
#3	19	15	28	22
#4	25	19	37	29
#5	31	24	47	36
#6	37	29	56	43
#7	54	42	81	63
#8	62	48	93	71
#9	70	54	105	81
#10	79	61	118	91
#11	87	67	131	101
#14	105	81	157	121
#18	139	107	209	161

TENSION DEVELOPMENT LENGTHS, ℓd (INCHES)  
FOR GRADE 60 UNCOATED BARS  
fc = 4500 psi; NORMAL-WEIGHT CONCRETE  
BASED ON ACI 12.2.2

BAR SIZE	LAP CLASS	LAP LENGTH PER SPACING AND COVER CASE			
		CASE 1	CASE 2	CASE 1	CASE 2
TOP BARS	OTHER BARS	TOP BARS	OTHER BARS		
#3	B	24	19	36	28
#4	B	32	25	48	37
#5	B	40	31	60	47
#6	B	48	37	72	56
#7	B	70	54	106	81
#8	B	80	62	121	93
#9	B	91	70	136	105
#10	B	102	79	153	118
#11	B	113	87	170	131

TENSION LAP SPLICE LENGTHS, ℓs (INCHES)  
FOR GRADE 60 UNCOATED BARS  
fc = 4500 psi; NORMAL-WEIGHT CONCRETE  
BASED ON ACI 12.2.2

BAR SIZE	ℓd PER SPACING AND COVER CASE			
	CASE 1	CASE 2	CASE 1	CASE 2
TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	
#3	17	13	25	19
#4	22	17	33	26
#5	28	22	42	32
#6	33	26	50	38
#7	49	37	73	56
#8	72	55	107	82
#9	63	48	94	72
#10	70	54	105	81
#11	78	60	117	90
#14	94	72	140	108
#18	125	96	187	144

TENSION DEVELOPMENT LENGTHS, ℓd (INCHES)  
FOR GRADE 60 UNCOATED BARS  
fc = 5000 psi; NORMAL-WEIGHT CONCRETE  
BASED ON ACI 12.2.2

BAR SIZE	LAP CLASS	LAP LENGTH PER SPACING AND COVER CASE			
		CASE 1	CASE 2	CASE 1	CASE 2
TOP BARS	OTHER BARS	TOP BARS	OTHER BARS		
#3	B	22	17	33	25
#4	B	29	22	43	33
#5	B	36	28	54	42
#6	B	43	33	65	50
#7	B	63	49	94	73
#8	B	72	55	108	83
#9	B	81	63	122	94
#10	B	91	70	137	105
#11	B	101	78	152	117

TENSION LAP SPLICE LENGTHS, ℓs (INCHES)  
FOR GRADE 60 UNCOATED BARS  
fc = 5000 psi; NORMAL-WEIGHT CONCRETE  
BASED ON ACI 12.2.2

**5,000 PSI NORMAL-WEIGHT CONCRETE**

- NOTES:
- 1) TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST IN THE MEMBER BELOW THE REINFORCEMENT. WALL REINFORCEMENT IS CLASSIFIED AS OTHER BARS.
  - 2) FOR LIGHTWEIGHT AGGREGATE CONCRETE MULTIPLY THE VALUES ABOVE BY 1.3.

ABBREVIATIONS:

ℓd DENOTES NORMAL BAR DIAMETER  
> DENOTES GREATER THAN  
≥ DENOTES EQUAL TO OR GREATER THAN  
< DENOTES LESS THAN  
≤ DENOTES EQUAL TO OR LESS THAN

**CASE 1** BEAMS AND COLUMNS: CONCRETE COVER ≥ 2 ℓd, C-C, BAR SPACING ≥ 2 ℓd, AND WITH STIRRUPS OR TIES THROUGHOUT ℓd NOT LESS THAN THE CODE MINIMUM. OTHER MEMBERS: CONCRETE COVER ≥ 2 ℓd, AND C-C, BAR SPACING ≥ 3 ℓd

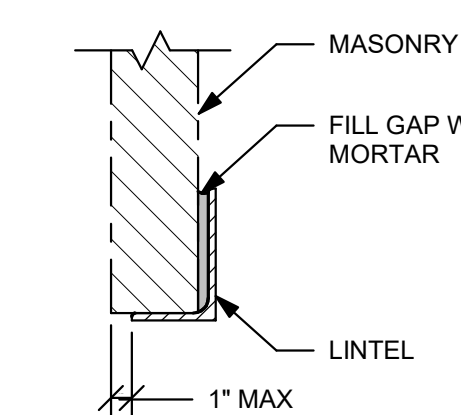
**CASE 2** BEAMS AND COLUMNS: CONCRETE COVER < 2 ℓd, AND C-C, BAR SPACING < 2 ℓd, OTHER MEMBERS: CONCRETE COVER < 2 ℓd, OR C-C, BAR SPACING < 3 ℓd

**4,500 PSI NORMAL-WEIGHT CONCRETE**

**MINIMUM SPLICE AND EMBEDMENT LENGTH SCHEDULE**

(UNLESS SHOWN OTHERWISE ON DRAWINGS)

- NOTES:
- 1) PROVIDE LINTELS OVER ALL MASONRY OPENINGS UNLESS OTHERWISE NOTED OR DETAILED.
  - 2) PROVIDE ONE ANGLE FOR EACH 4" OF WALL THICKNESS. FOR 6" WALLS PROVIDE TEE, DOUBLE ANGLE OR BUILT-UP SECTION WITH PROPERTIES EQUAL TO OR GREATER THAN 1-1/2" TIMES ANGLE PROPERTIES FOR 4" WALL.
  - 3) PROVIDE 8" OF BEARING EACH END OF ALL LINTELS.
  - 4) SPAN LENGTH = CENTERLINE TO CENTERLINE OF BEARING.
  - 5) ALL EXTERIOR LINTELS SHALL BE GALVANIZED. PROVIDE 1/4" THICK CLOSURE PLATE OVER AIR SPACE AT OPENINGS UNLESS NOTED OR DETAILED OTHERWISE ON ARCHITECTURAL DRAWINGS.
  - 6) FOR CURVED LINTELS USE CHORD LENGTH IN CONJUNCTION WITH SCHEDULE ABOVE. PROVIDE HORIZONTAL ANGLES AT EACH END OF LINTEL FOR 8" OF BEARING. HORIZONTAL ANGLES SHALL MATCH LINTEL SIZE AND SHALL BE WELDED TO CURVED ANGLE WITH FULL PENETRATION WELD.
  - 7) LOOSE LINTELS SHALL BE FURNISHED BY METAL FABRICATIONS (SPECIFICATION 055000) AND INSTALLED BY UNIT MASONRY ASSEMBLIES (SPECIFICATION 042000).
  - 8) LOOSE LINTELS ARE REQUIRED FOR ALL OPENINGS INCLUDING DOORS, WINDOWS, MECHANICAL DUCTS, PIPES ETC.
  - 9) ALL THE LINTELS NOT ATTACHED TO STRUCTURAL STEEL ARE IN THE SCOPE OF THE METAL FABRICATION CONTRACTOR (SPECIFICATION 055000). SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. ALL THE LINTELS WELDED TO STRUCTURAL STEEL ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THE STRUCTURAL STEEL FABRICATOR.

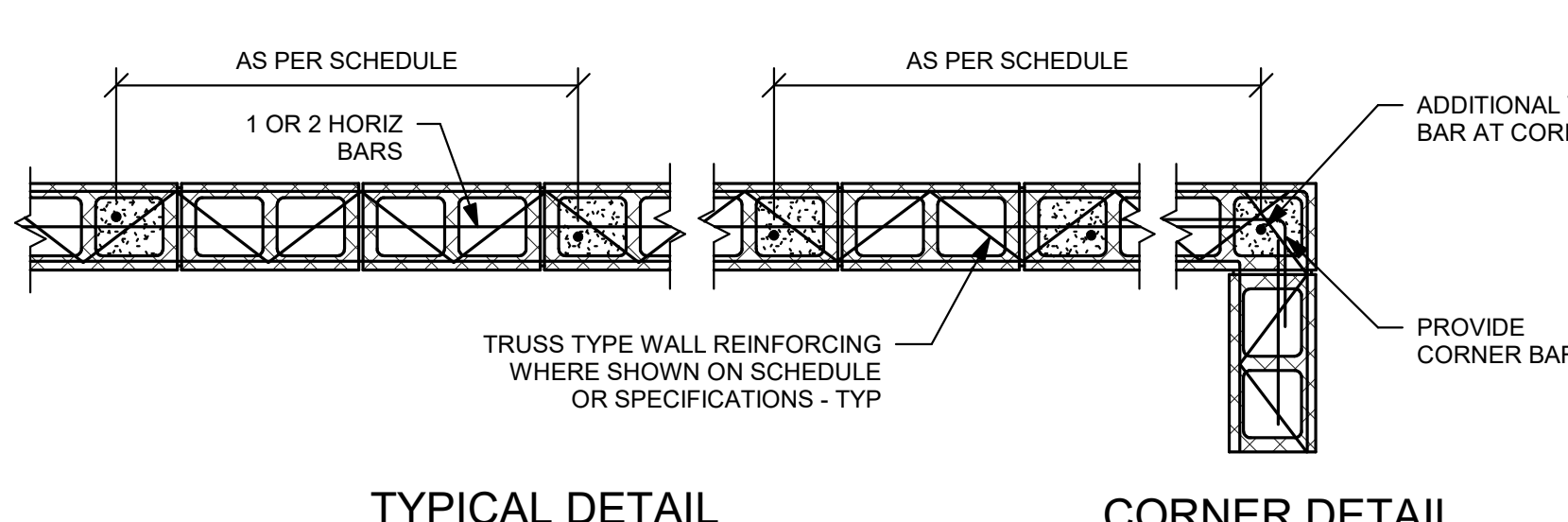
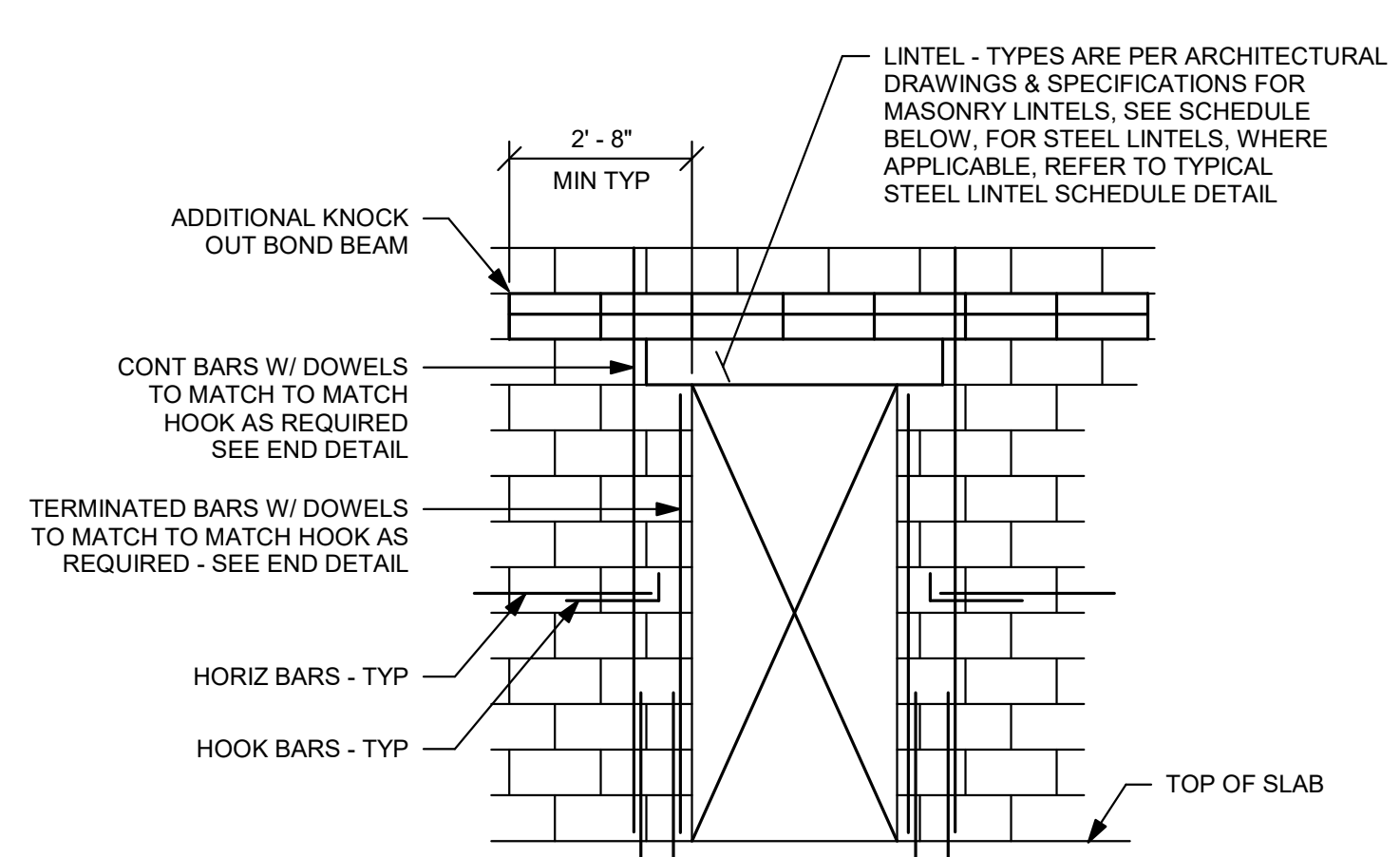


**TYPICAL SECTION  
SINGLE WYTHE MASONRY**

LINTEL SCHEDULE	
MASONRY OPENING	LINTEL SIZE
UP TO 4' - 6"	L 4" x 3-1/2" x 5/16" (4" LEG VERTICAL)
4' - 7" TO 6' - 0"	L 5" x 3-1/2" x 5/16" (5" LEG VERTICAL)
6' - 1" TO 8' - 0"	L 6" x 3-1/2" x 3/8" (6" LEG VERTICAL)
8' - 1" TO 10' - 0"	L 7" x 4" x 3/8" (7" LEG VERTICAL)

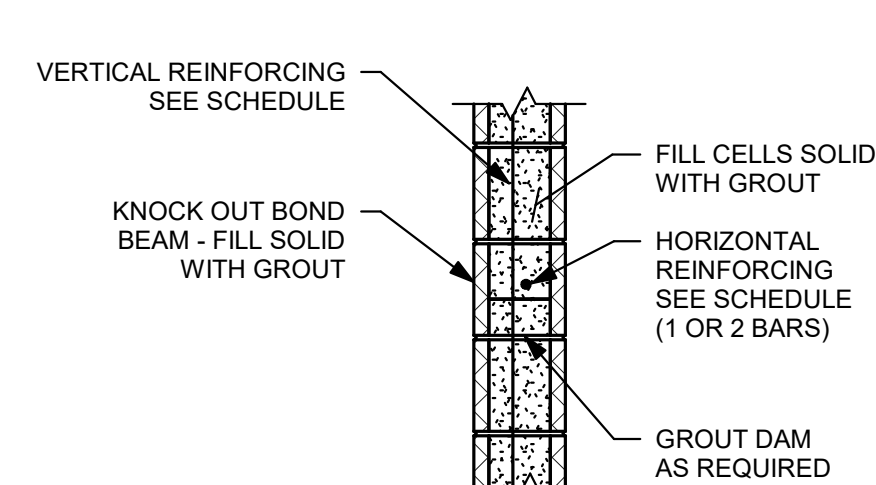
**TYPICAL STEEL LINTEL SCHEDULE**

NO SCALE



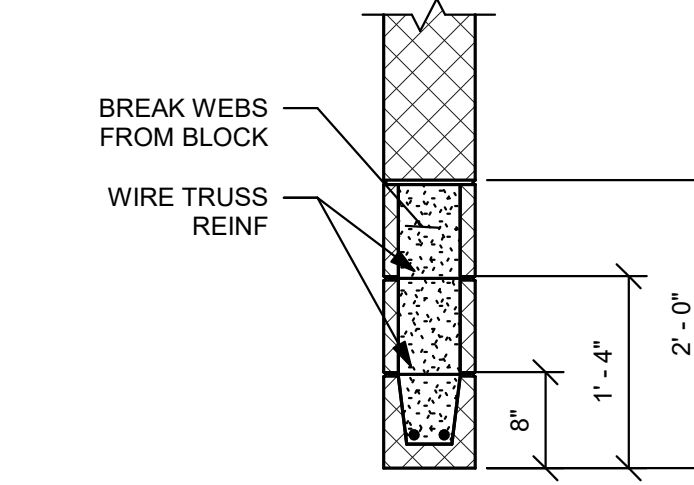
**TYPICAL DETAIL**

**CORNER DETAIL**



**BOND BEAM DETAIL**

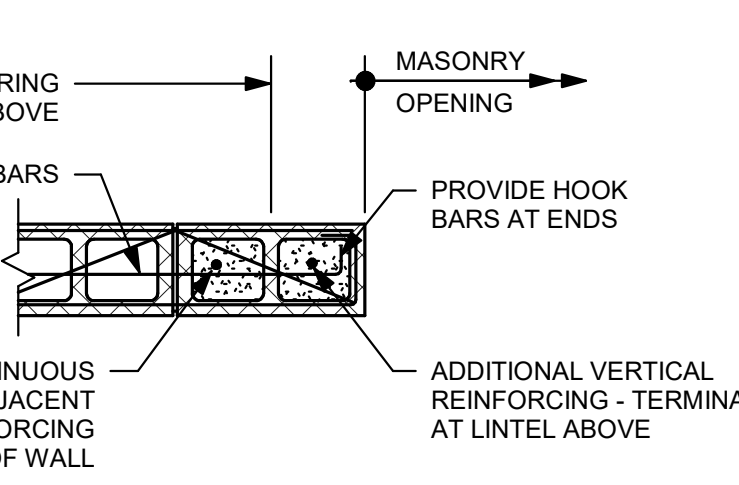
- NOTES:
- 1) SEE SCHEDULE FOR SPACING.
  - 2) PROVIDE REINFORCED BOND BEAM WITHIN 16" OF TOP OF WALL.
  - 3) PROVIDE REINFORCED BOND BEAM AT TOP AND BOTTOM OF ALL OPENINGS.



**MASONRY LINTEL DETAIL  
AND SCHEDULE**

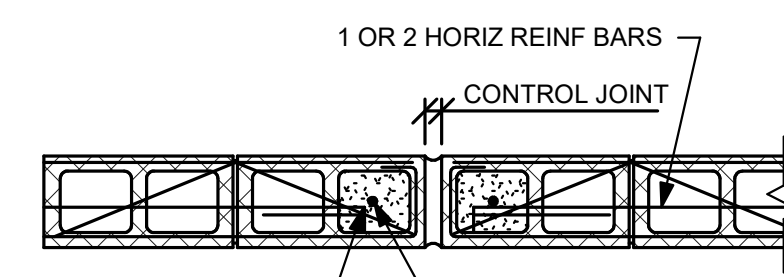
NOTE:  
NO CONSTRUCTION JOINTS OR CONTROL JOINTS ARE PERMITTED WITHIN 3' - 0" OF EDGE OF OPENING.

MASONRY LINTEL SCHEDULE		
OPENING DIMS	8" x 12" WIDE BEAM	REINFORCEMENT
0' - 0" - 4' - 0"	8" x 8" DEEP	2 - #5 CONT
4' - 0" - 8' - 0"	8" x 10" DEEP	2 - #5 CONT
8' - 0" - 12' - 0"	8" x 24" DEEP	2 - #6 CONT AND WIRE TRUSS TYPE - REINF AT JOINTS
0' - 0" - 4' - 0"	12" x 8" DEEP	2 - #5 CONT
4' - 0" - 8' - 0"	12" x 16" DEEP	2 - #6 CONT AND WIRE TRUSS TYPE - REINF AT JOINTS
8' - 0" - 12' - 0"	12" x 24" DEEP	2 - #6 TOP & BOT CONT AND WIRE TRUSS TYPE REINF AT JOINTS

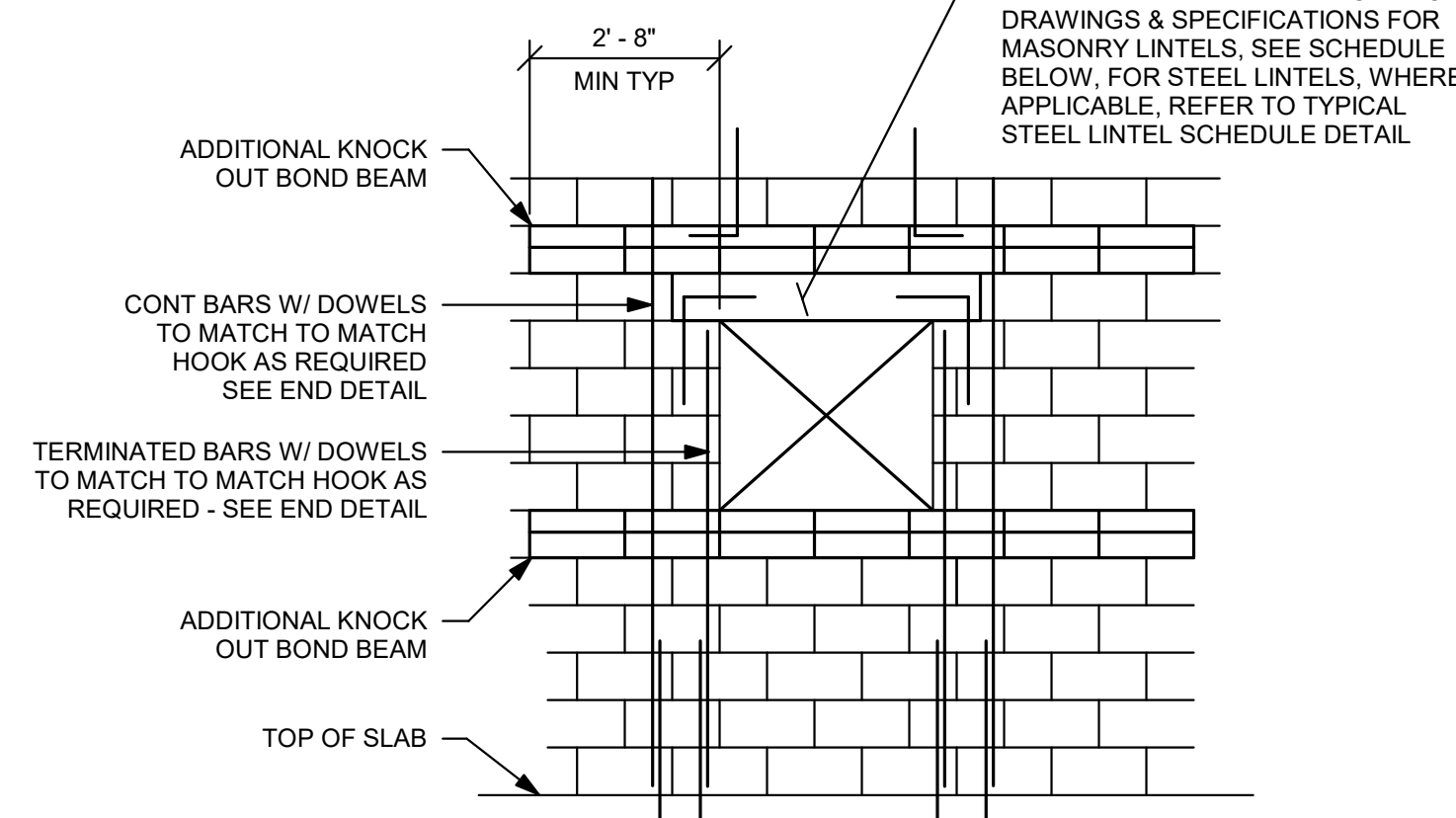


**END DETAIL**

- NOTES:
- 1) PROVIDE 1 - CONTINUOUS BAR AT MASONRY OPENING 4' - 0" OR LESS IN WIDTH AT STRUTTED ENDS.
  - 2) PROVIDE 2 - CONTINUOUS BARS AT MASONRY OPENING 4' - 0" TO 8' - 0" IN WIDTH.



**VERTICAL CONTROL JOINT DETAIL**



8

NO SCALE

**DRA**

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Studio 300  
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METRO TECH**

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**EDG**

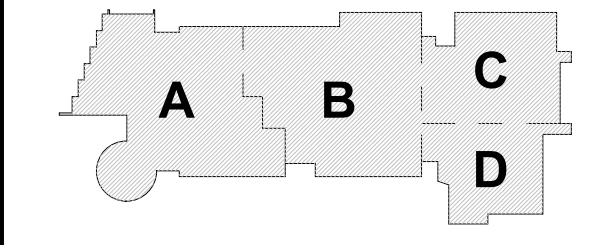
Engineers Design Group Inc.

Structural Engineers  
389 Main Street, Suite 401  
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EDG@EDGINC.COM

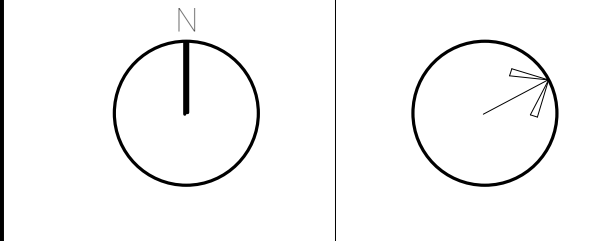
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MSBA 60% CD  
Submission

01/13/2023



PROJECT NORTH  
MAGNETIC NORTH

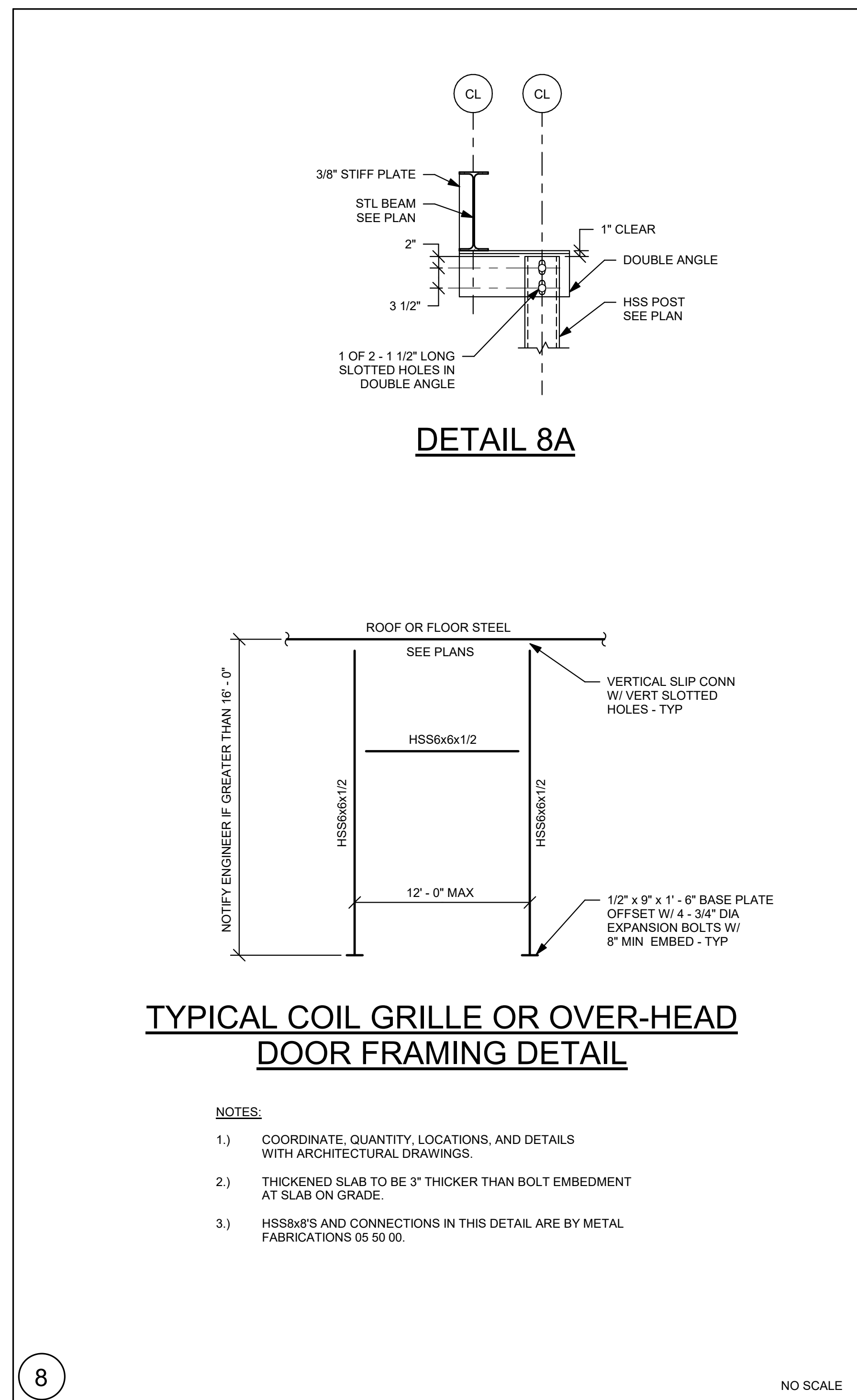
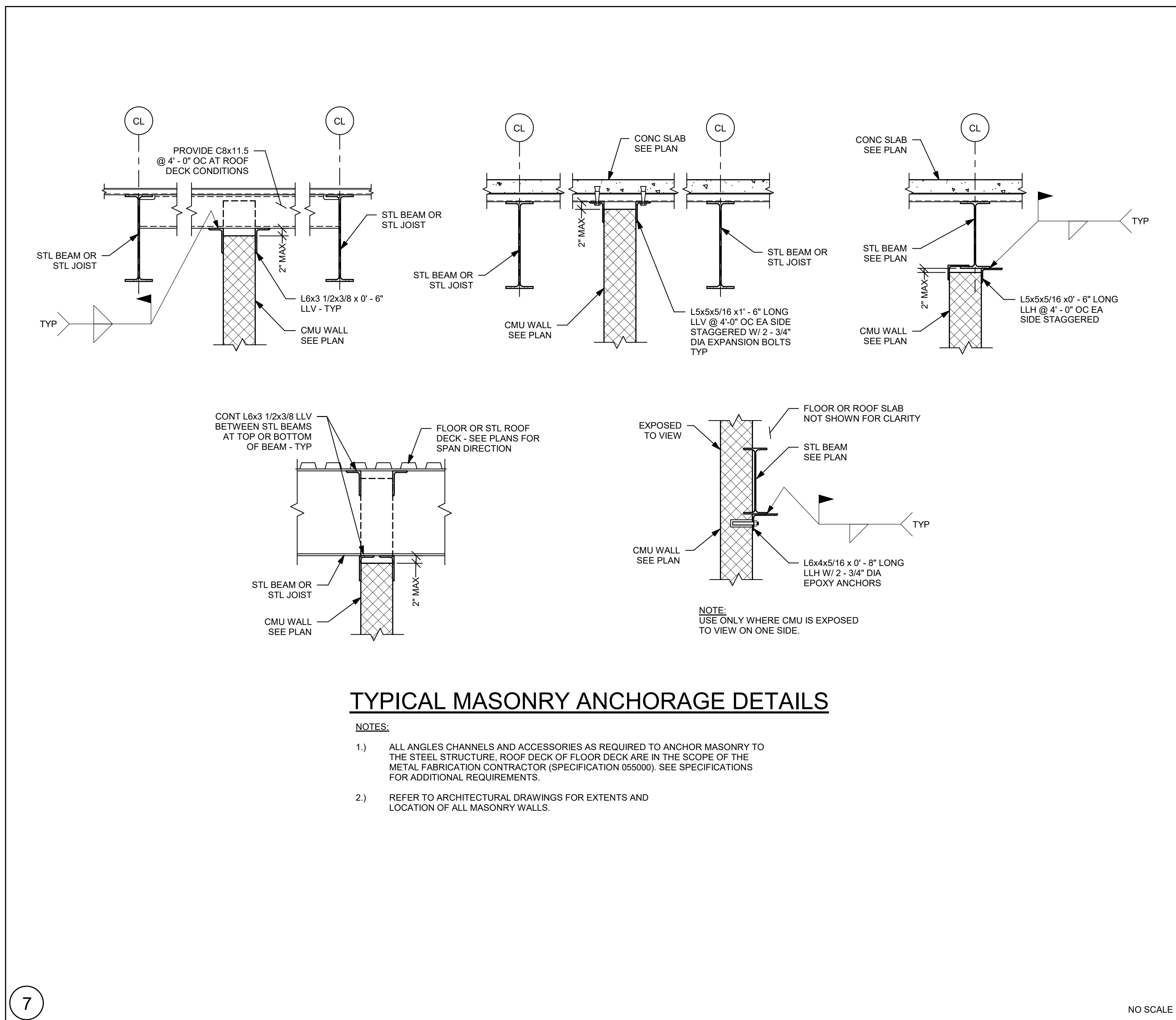
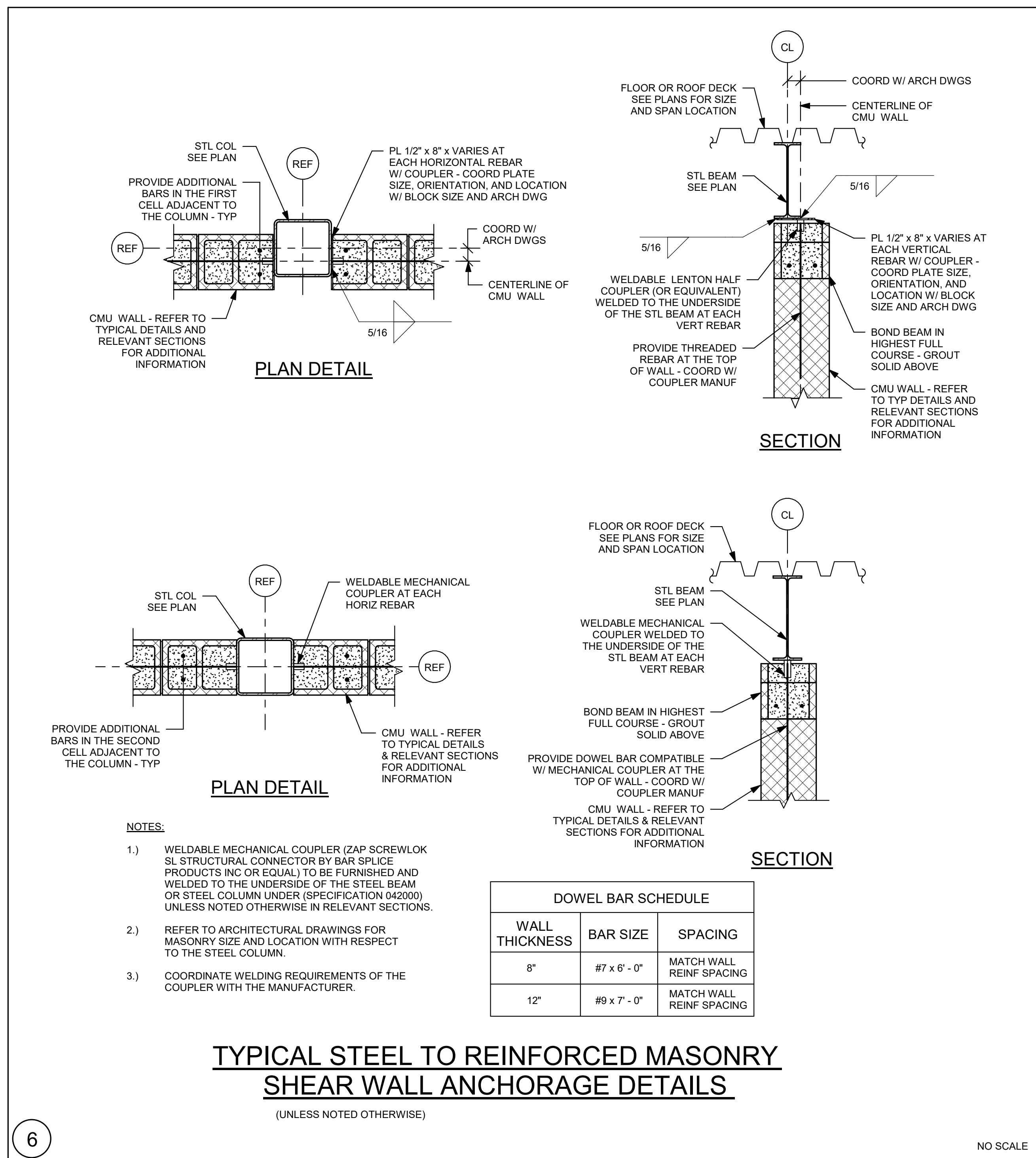
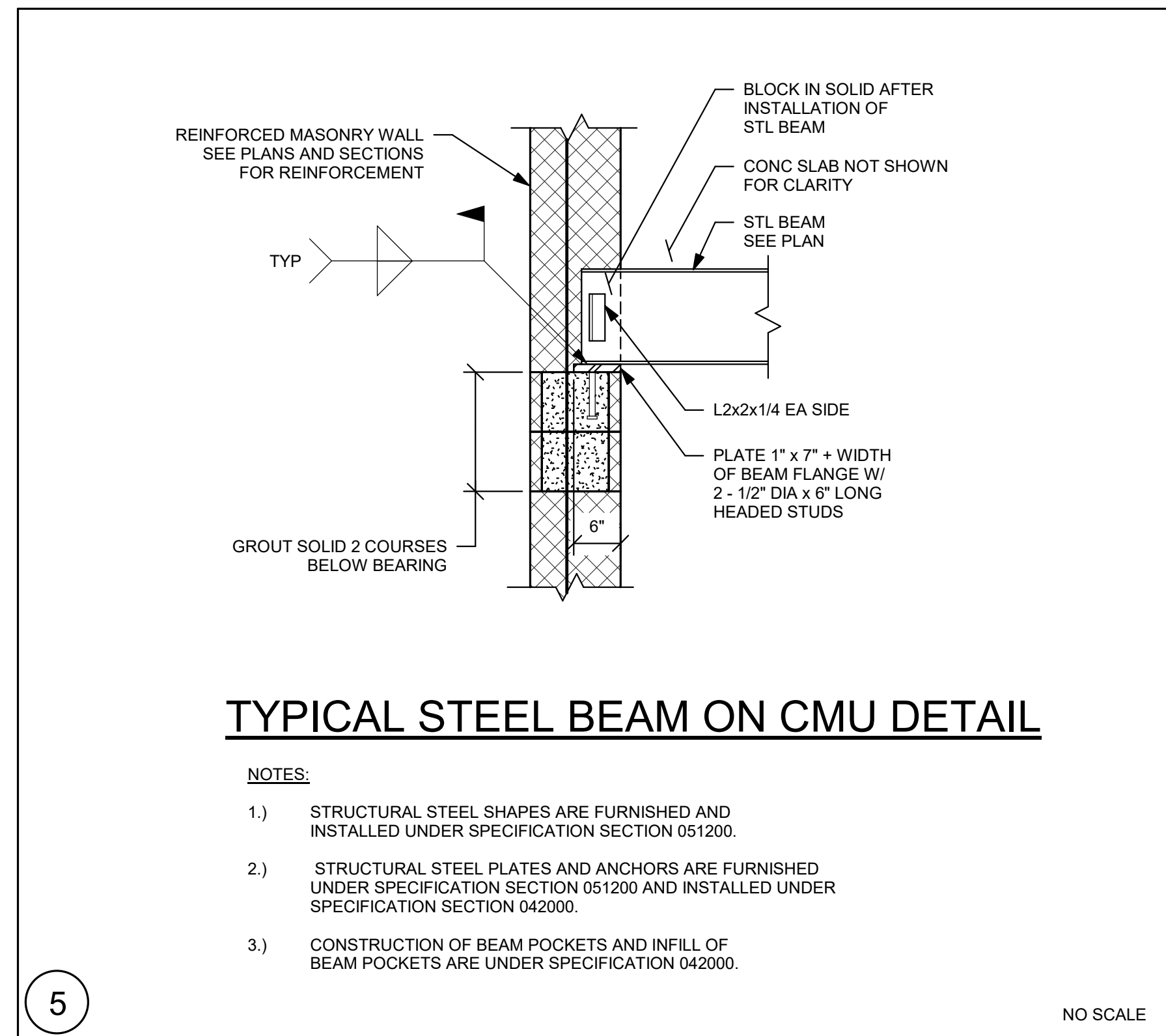
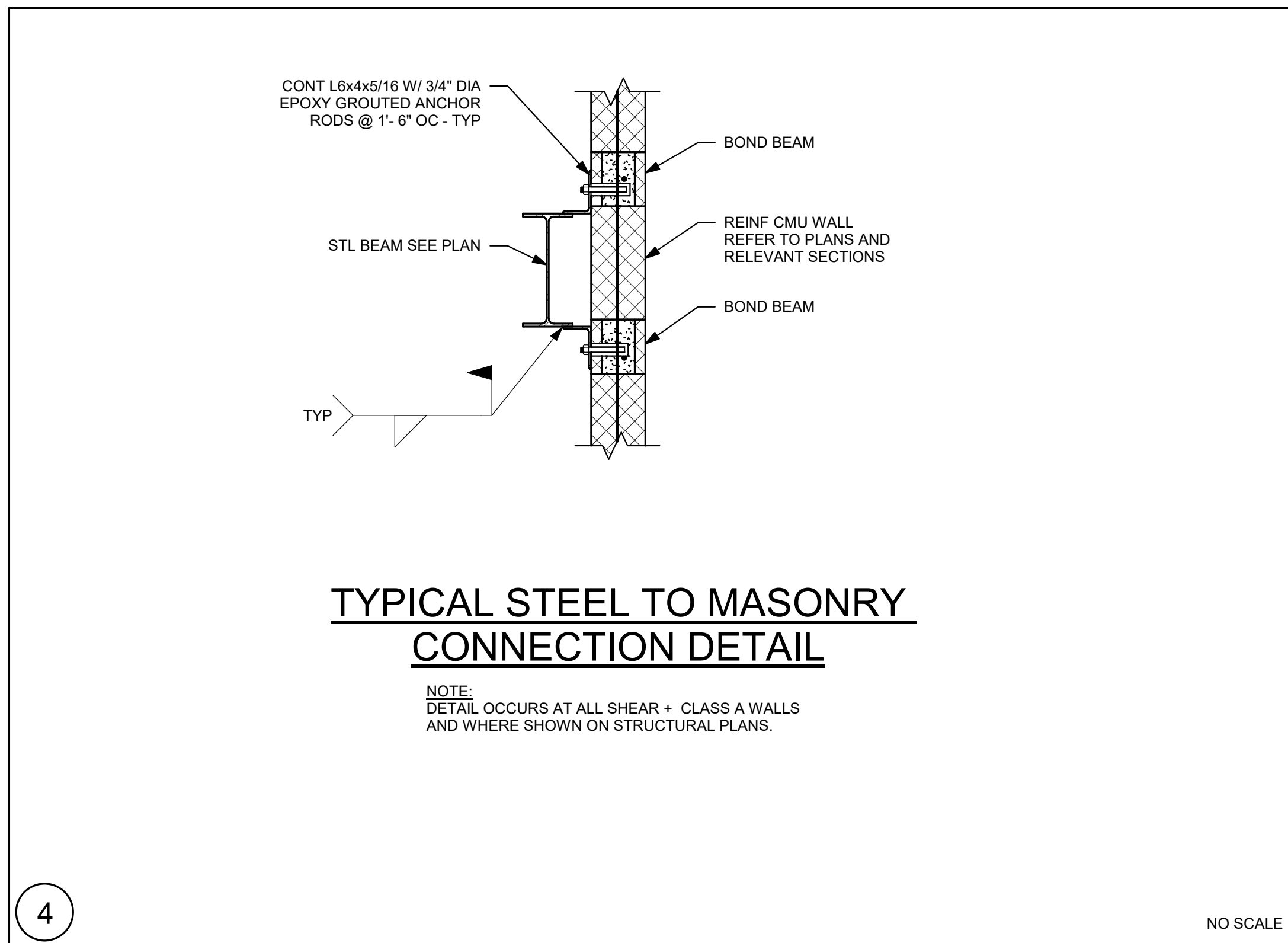
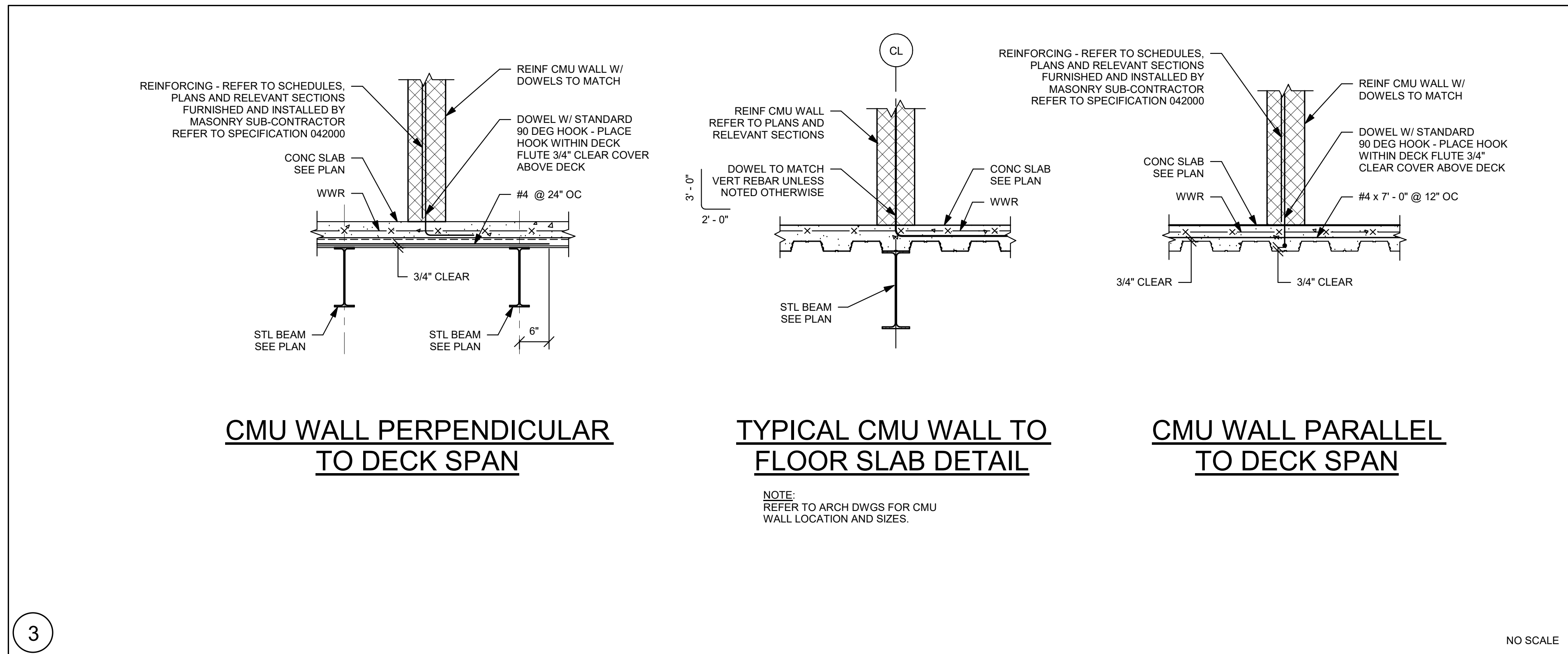
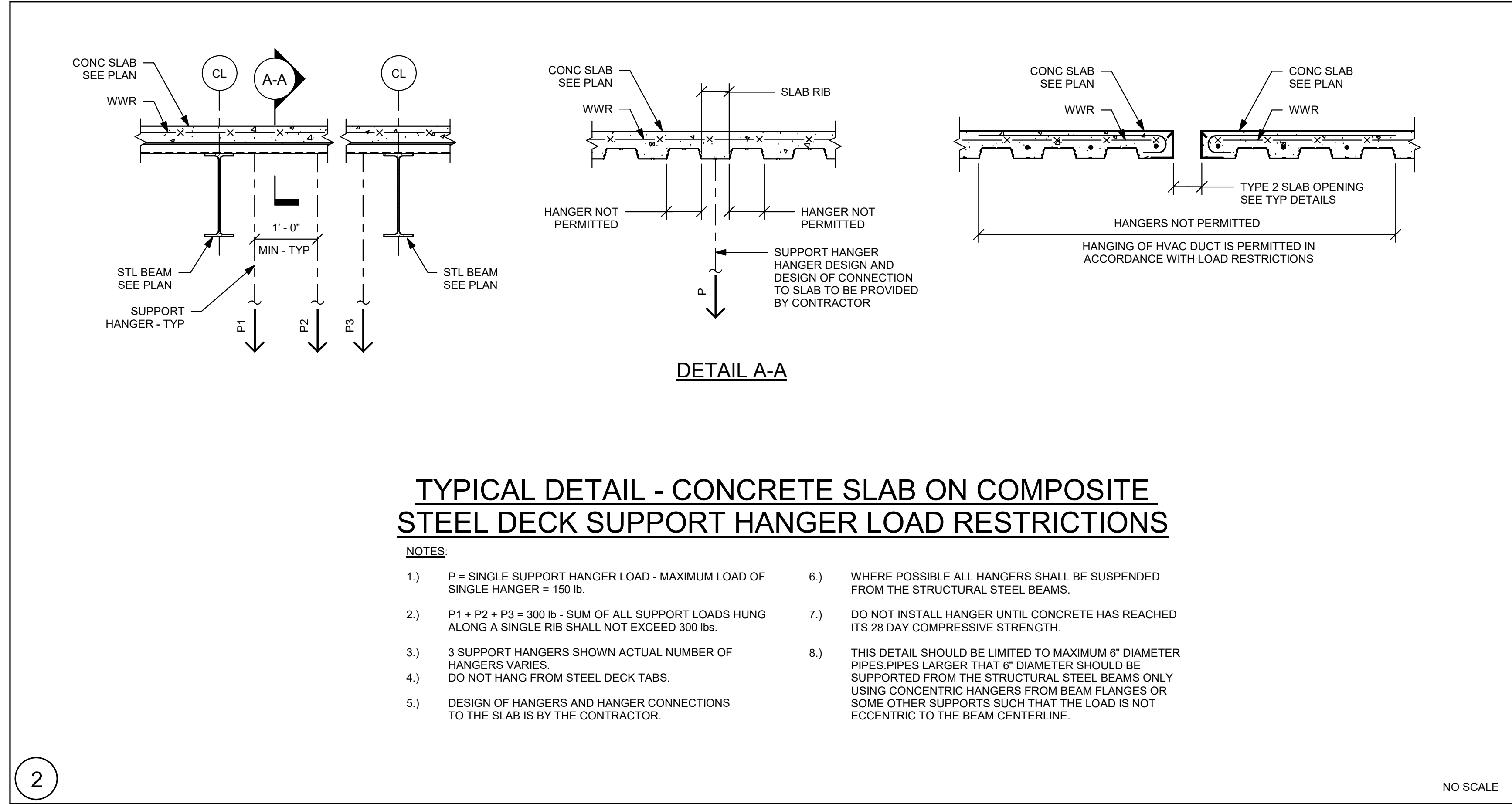
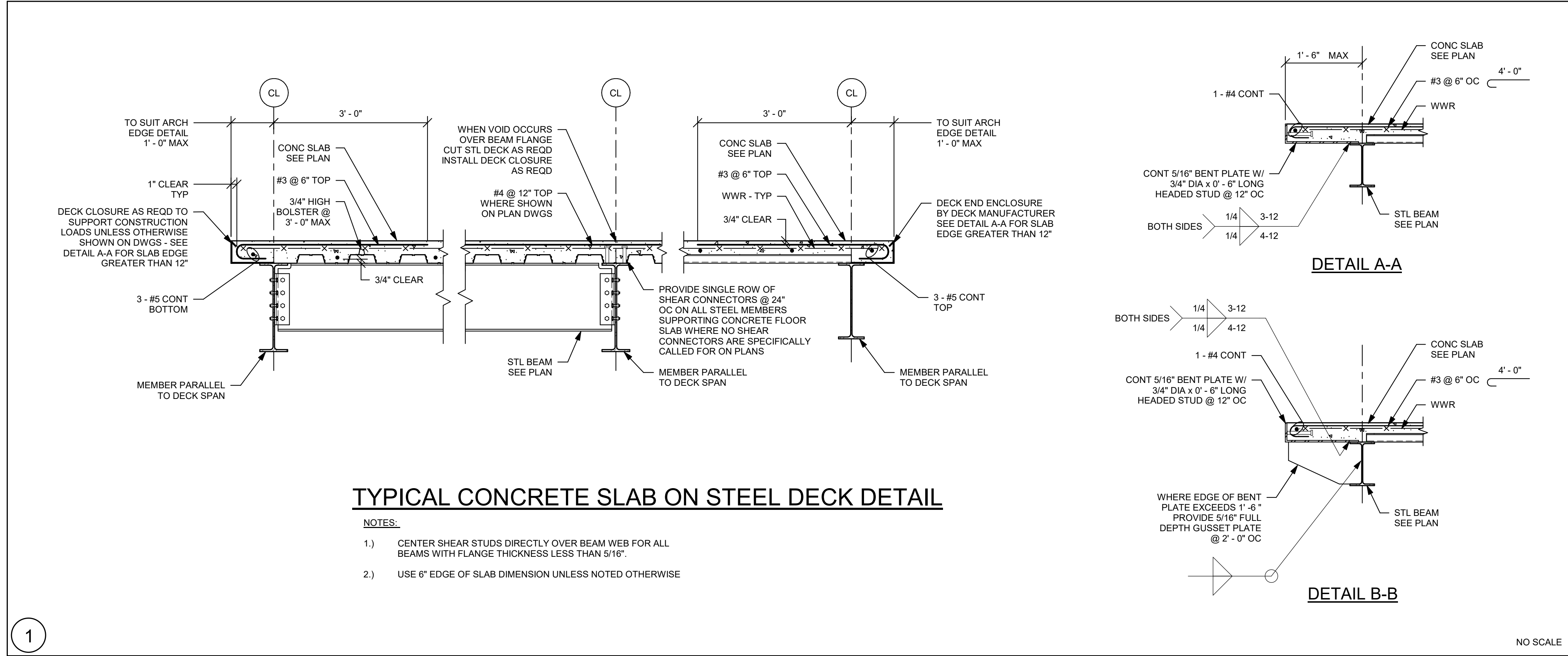


**TYPICAL  
DETAILS**

Scale: 3/4" = 1'-0"  
Job No.: 20202  
Drawn By: EDG  
Date: 01/13/2023

**S0-0-4**





**DRA**

Drumme Rosane Anderson, Inc.

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MSBA 60% CD Submission

01/13/2023

KEY PLAN

PROJECT NORTH

MAGNETIC NORTH

**TYPICAL DETAILS**

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

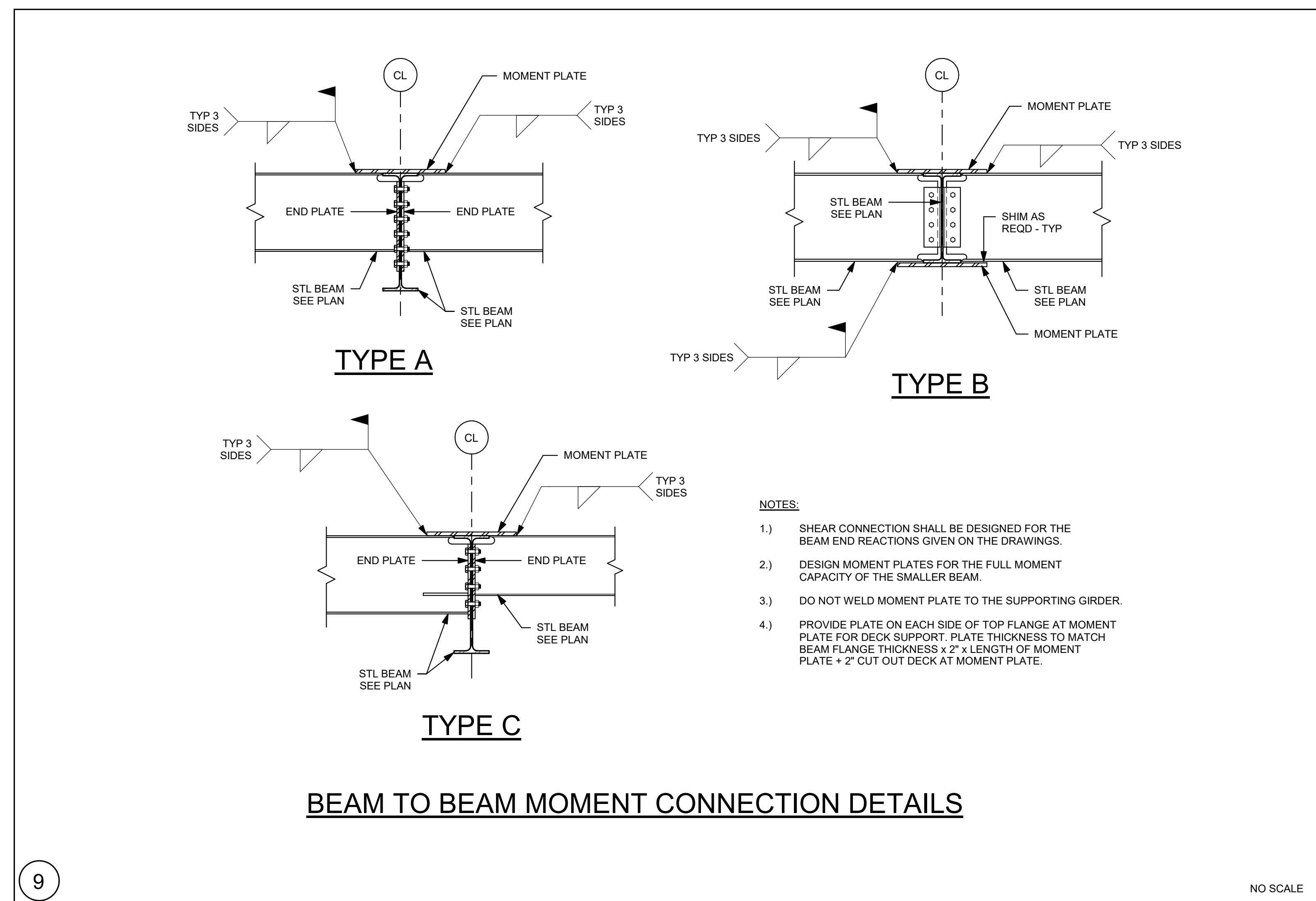
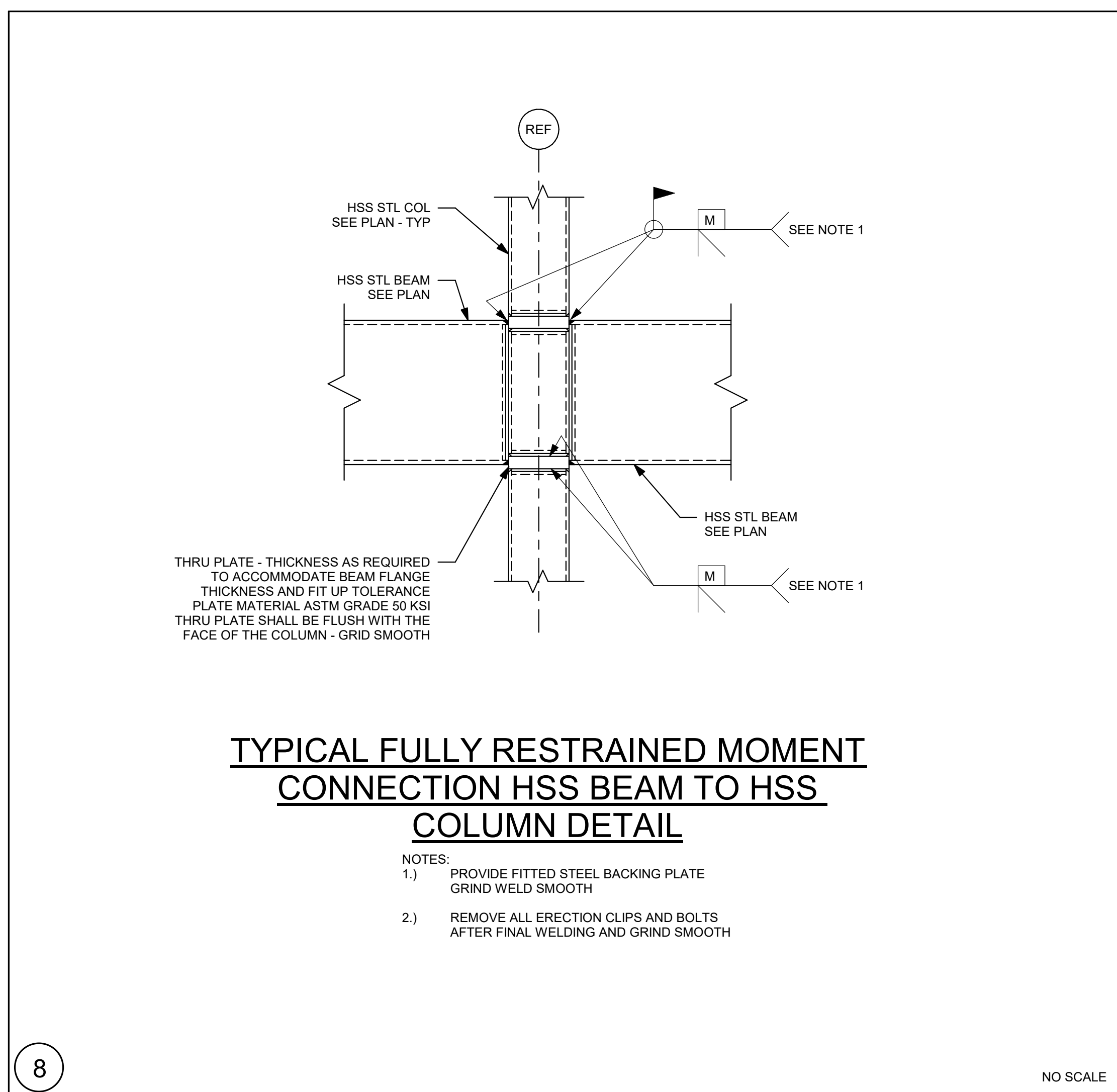
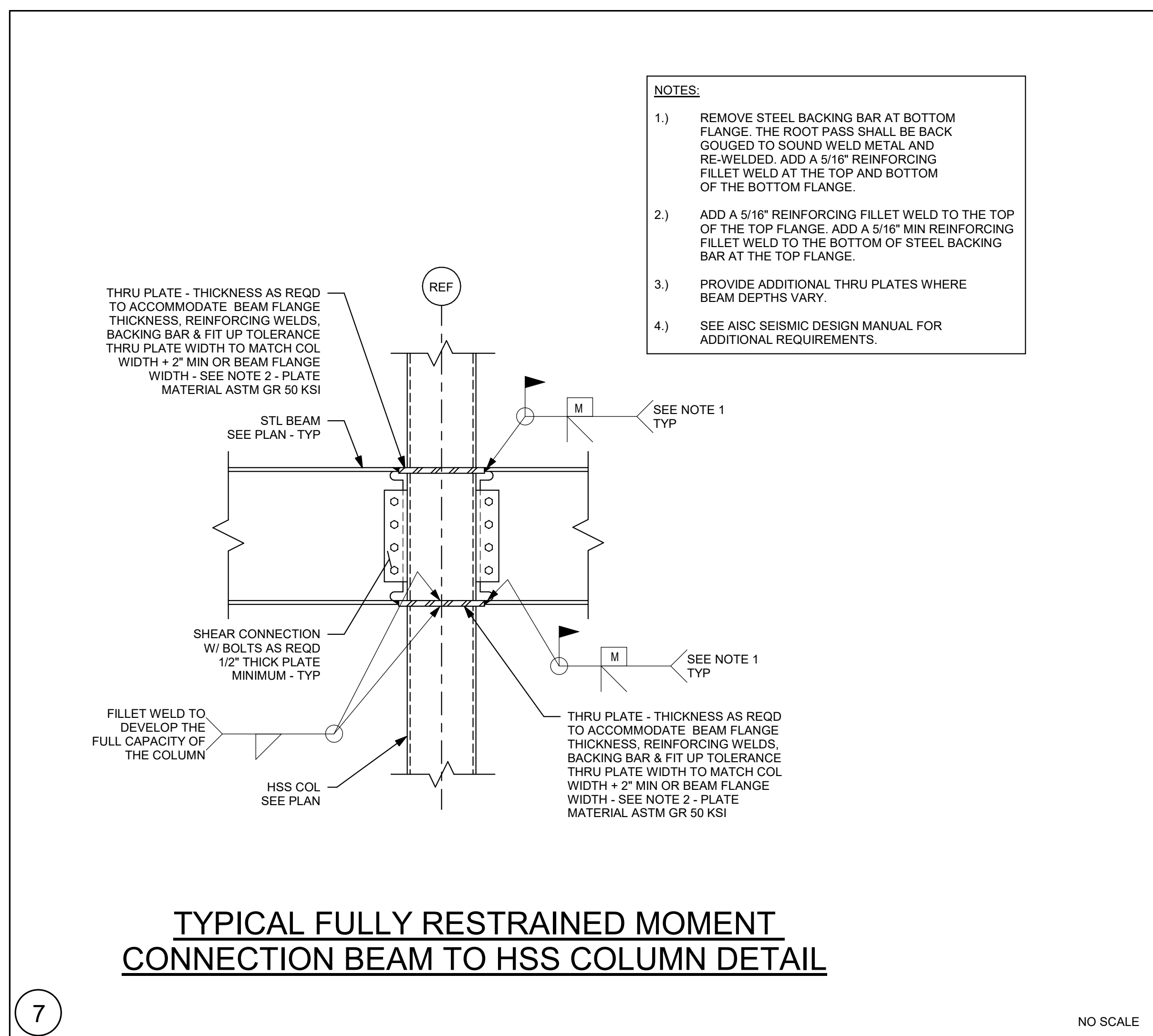
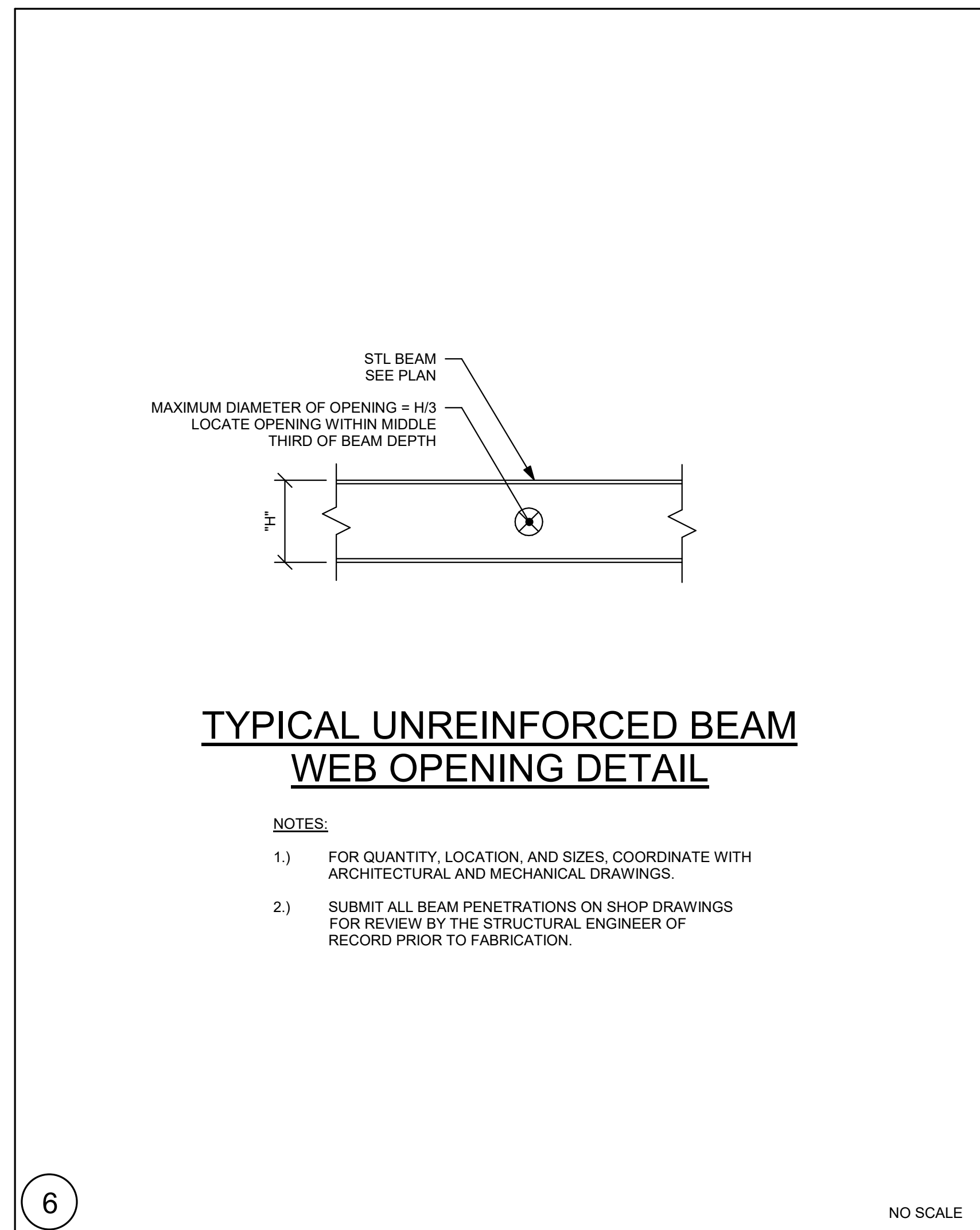
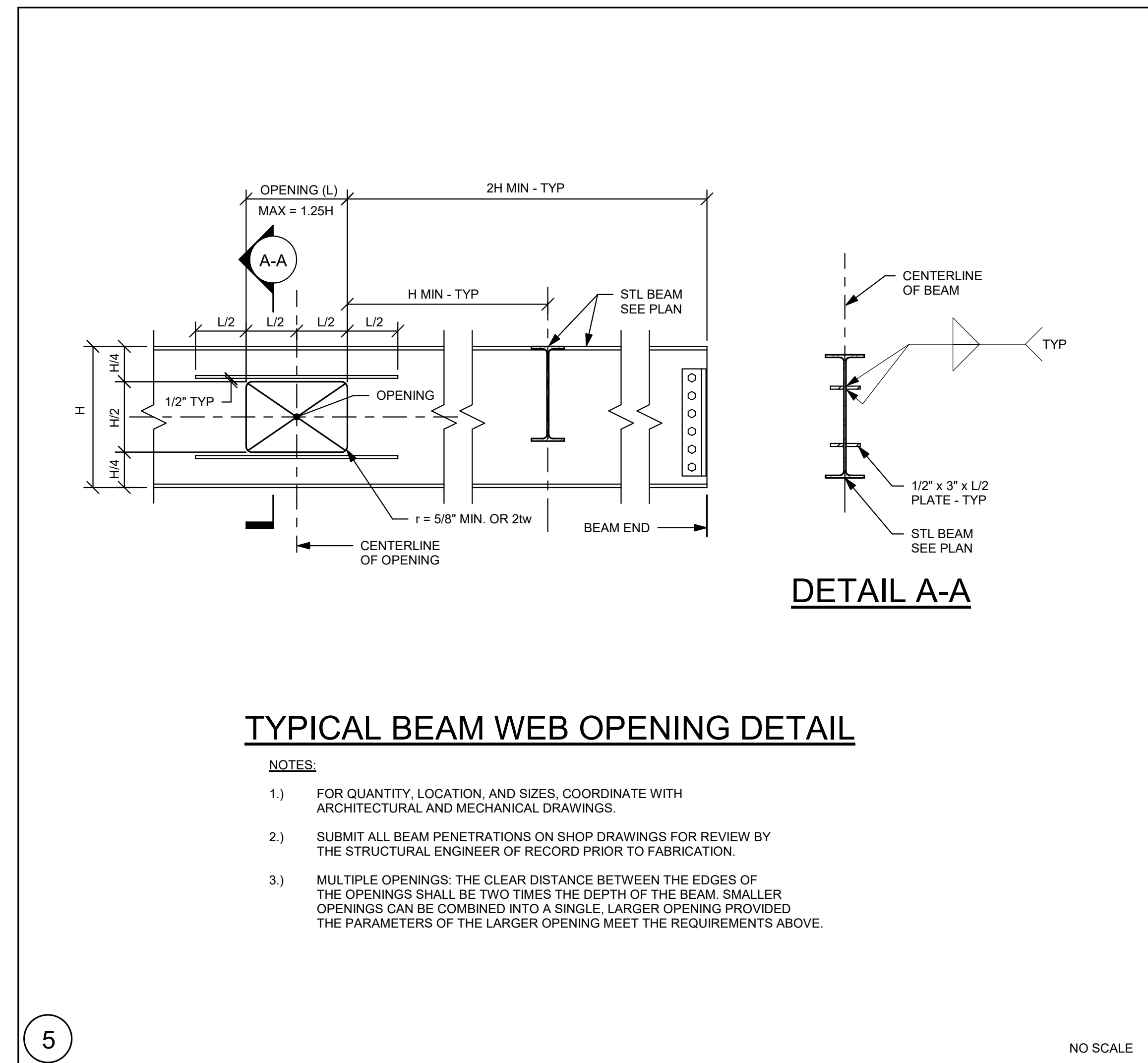
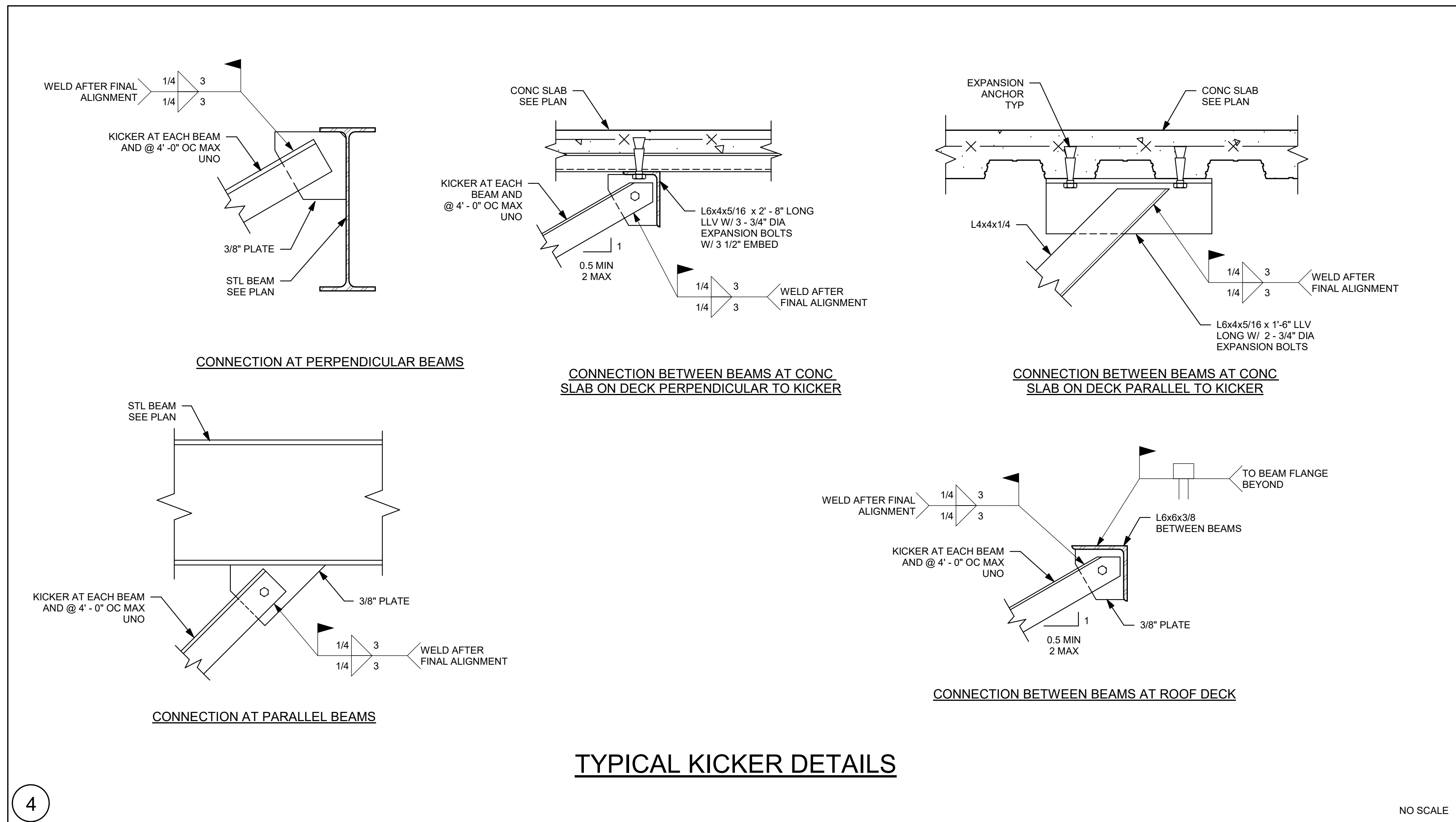
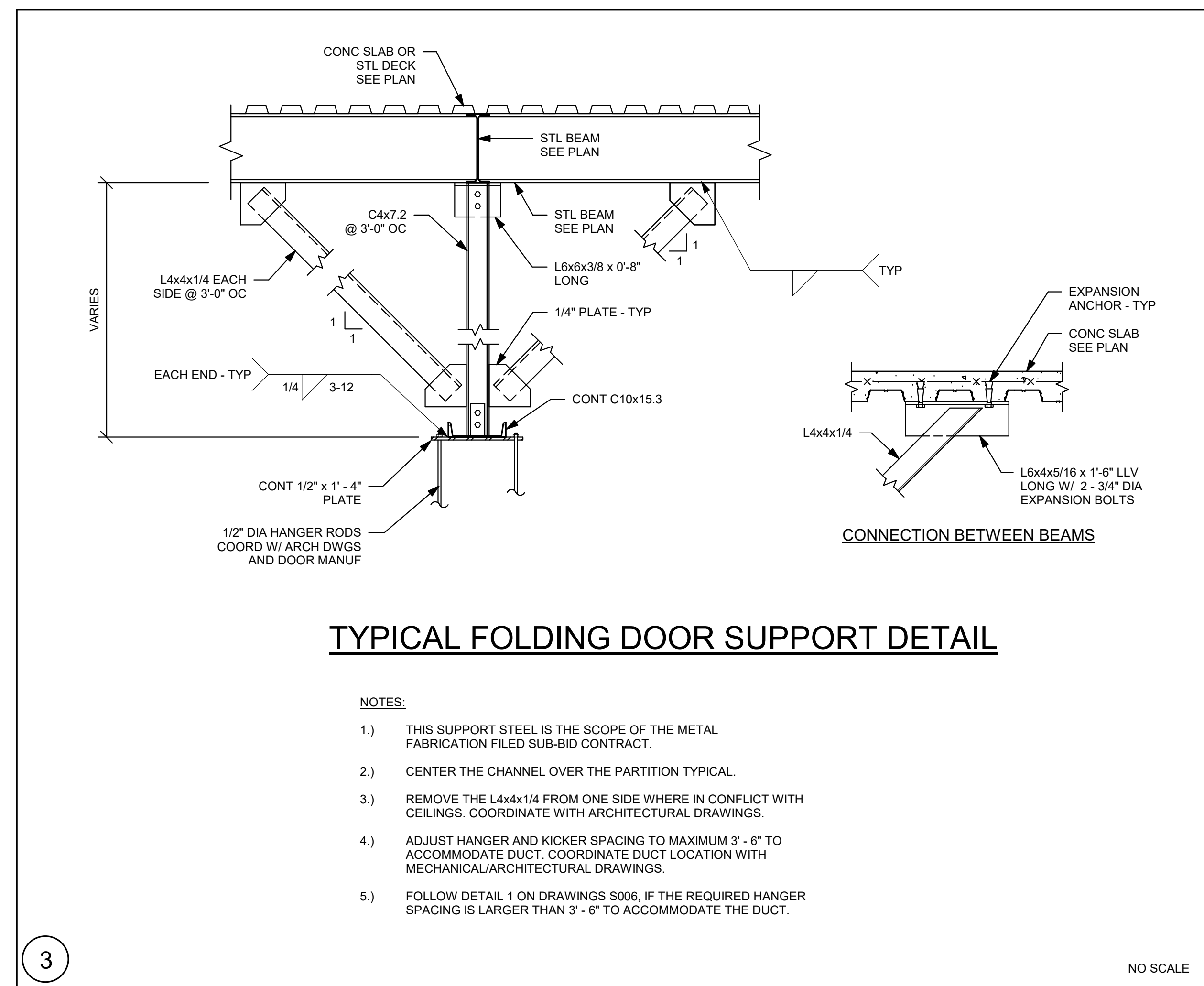
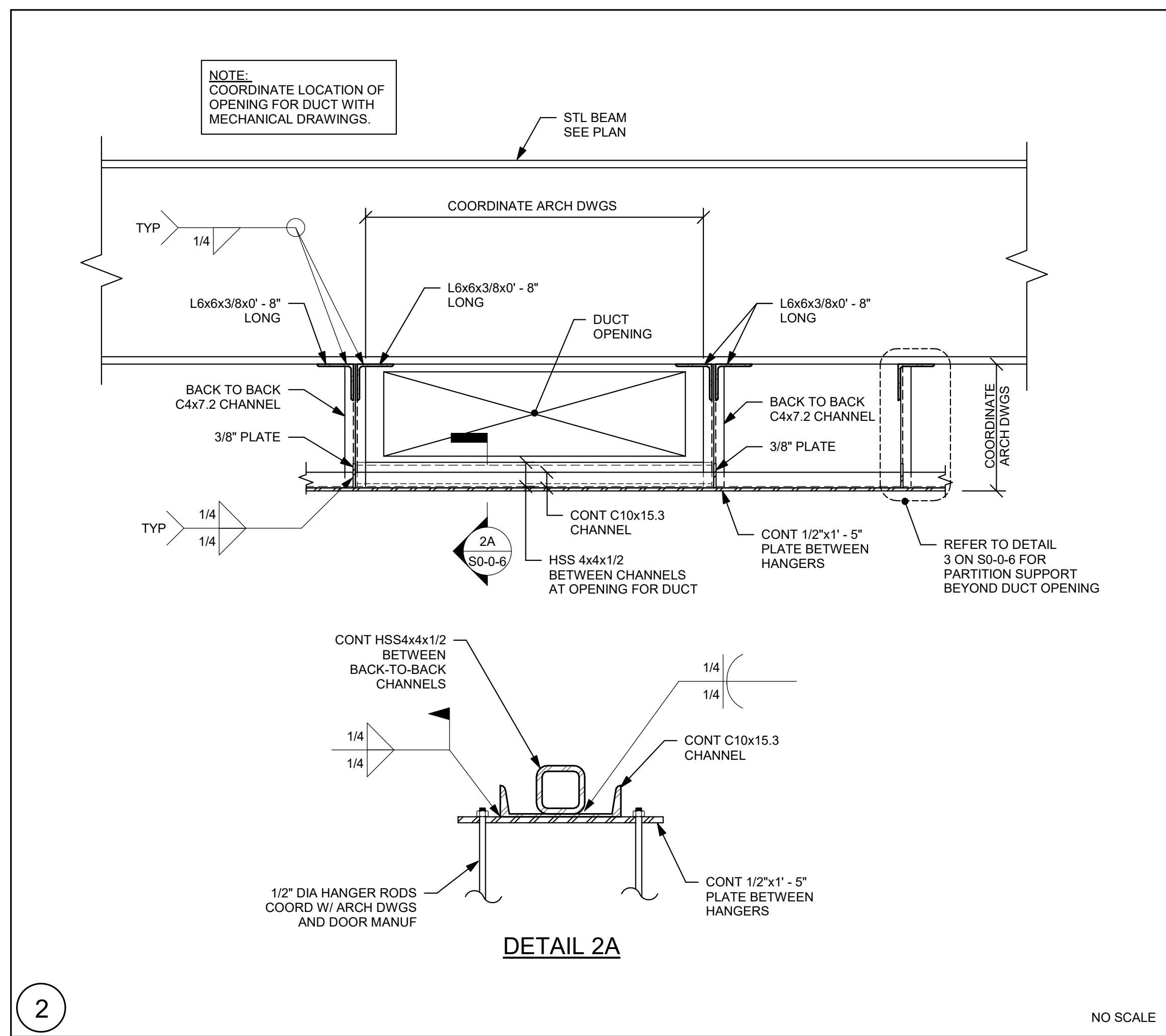
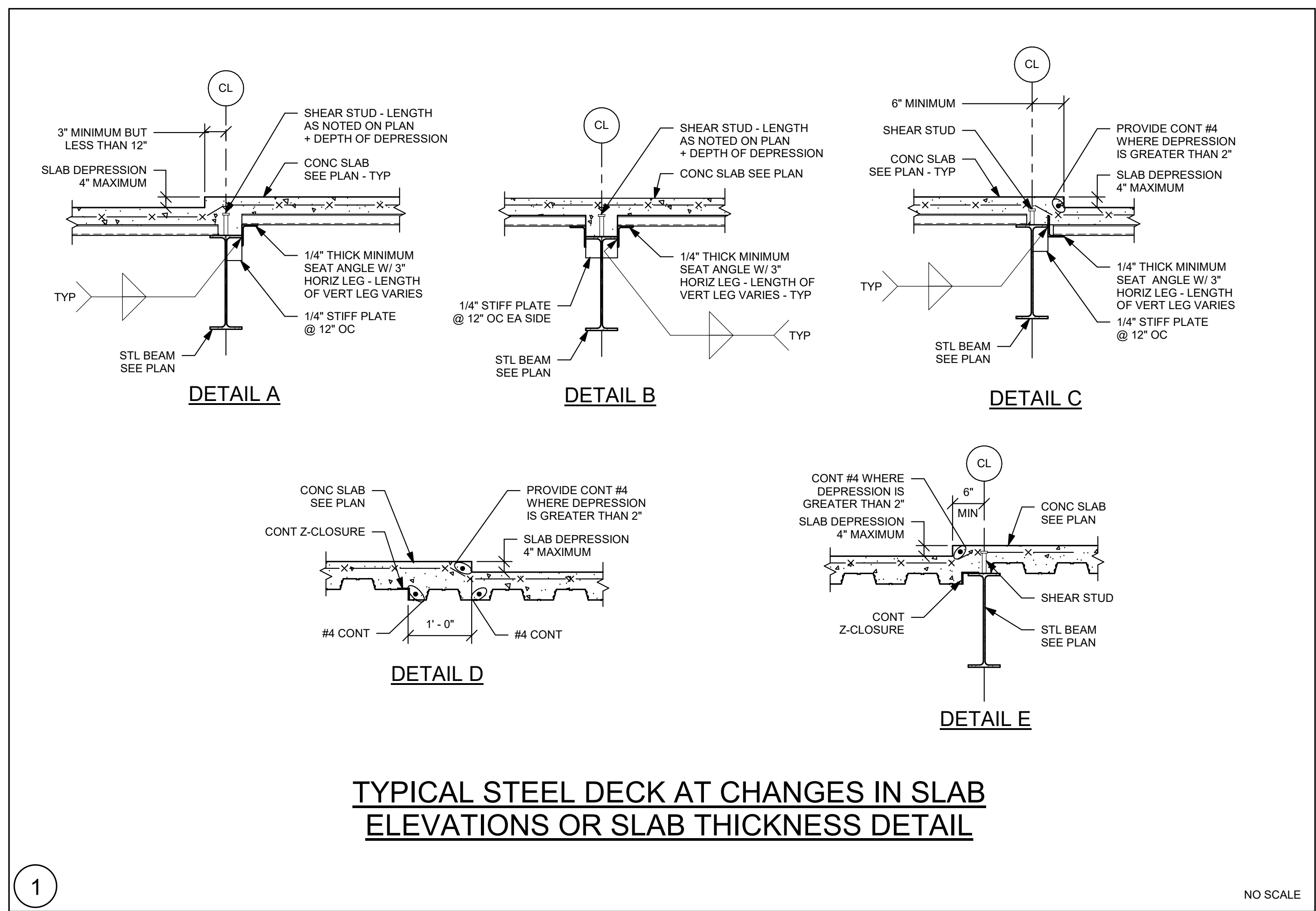
Job No.: 20202

Drawn By: EDG

Date: 01/13/2023

**S0-0-5**





# DRA

Drummeys Rosane Anderson, Inc.

225 Oakland Road  
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MSBA 60% CD Submission

01/13/2023

KEY PLAN

PROJECT NORTH

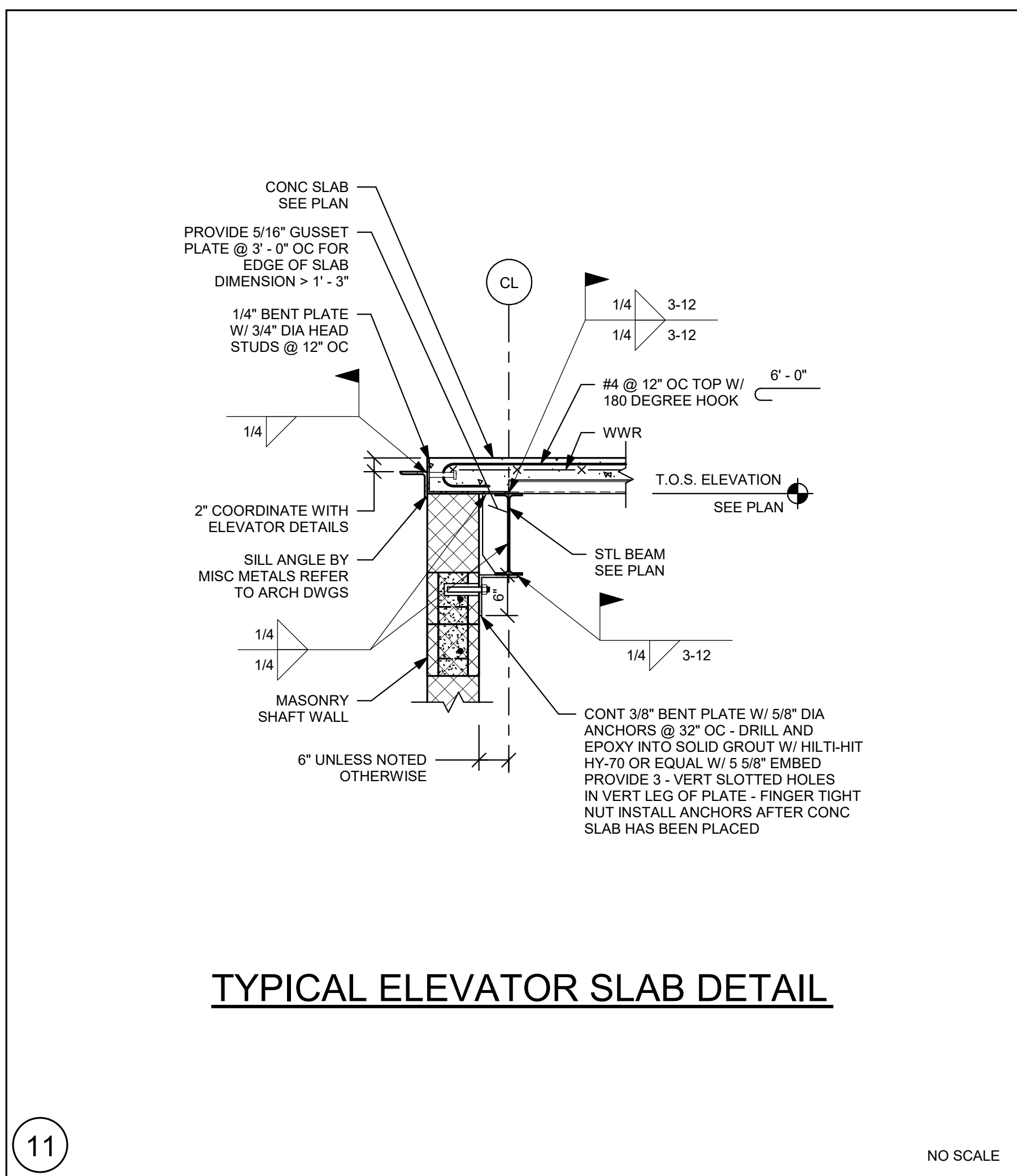
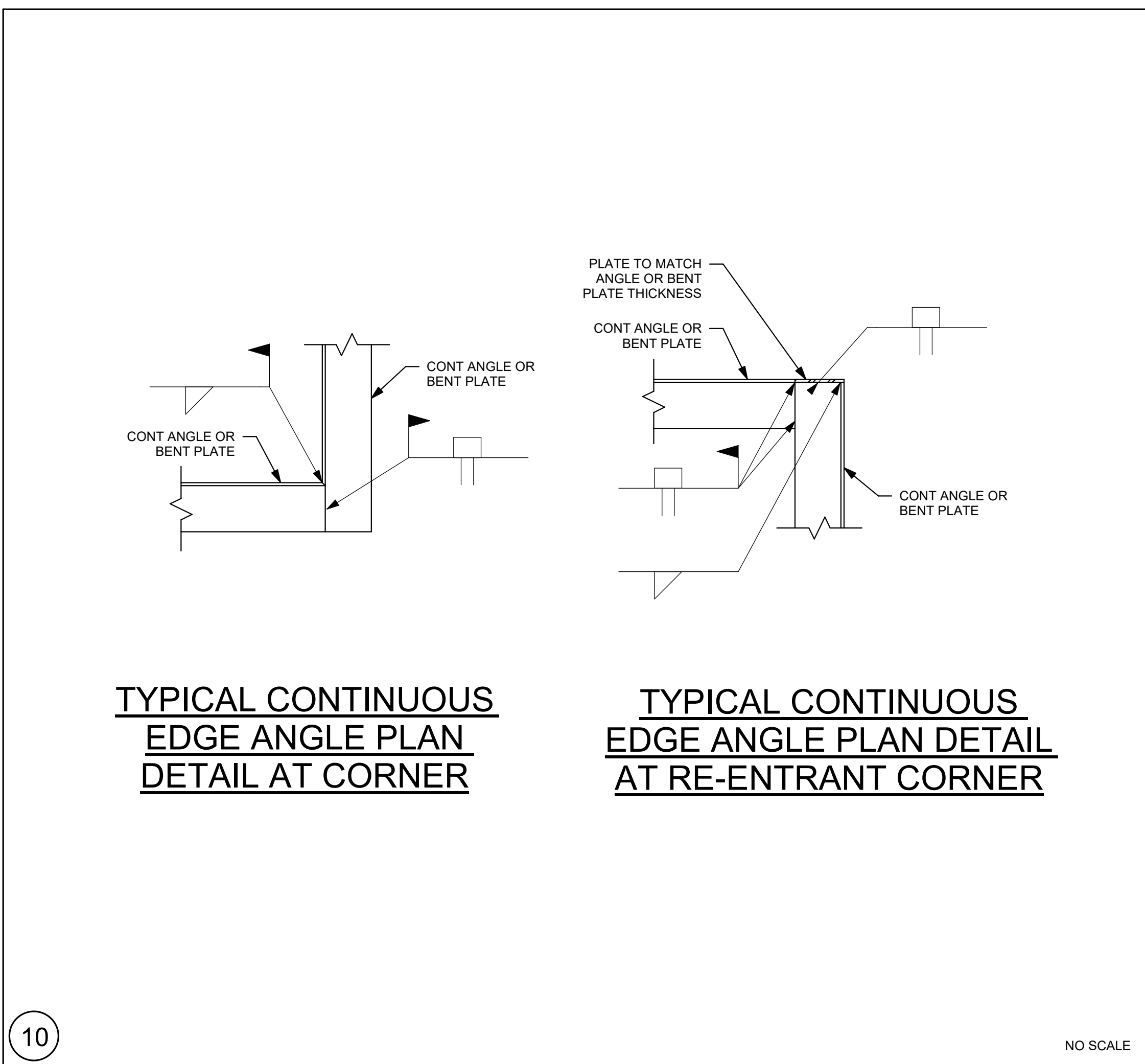
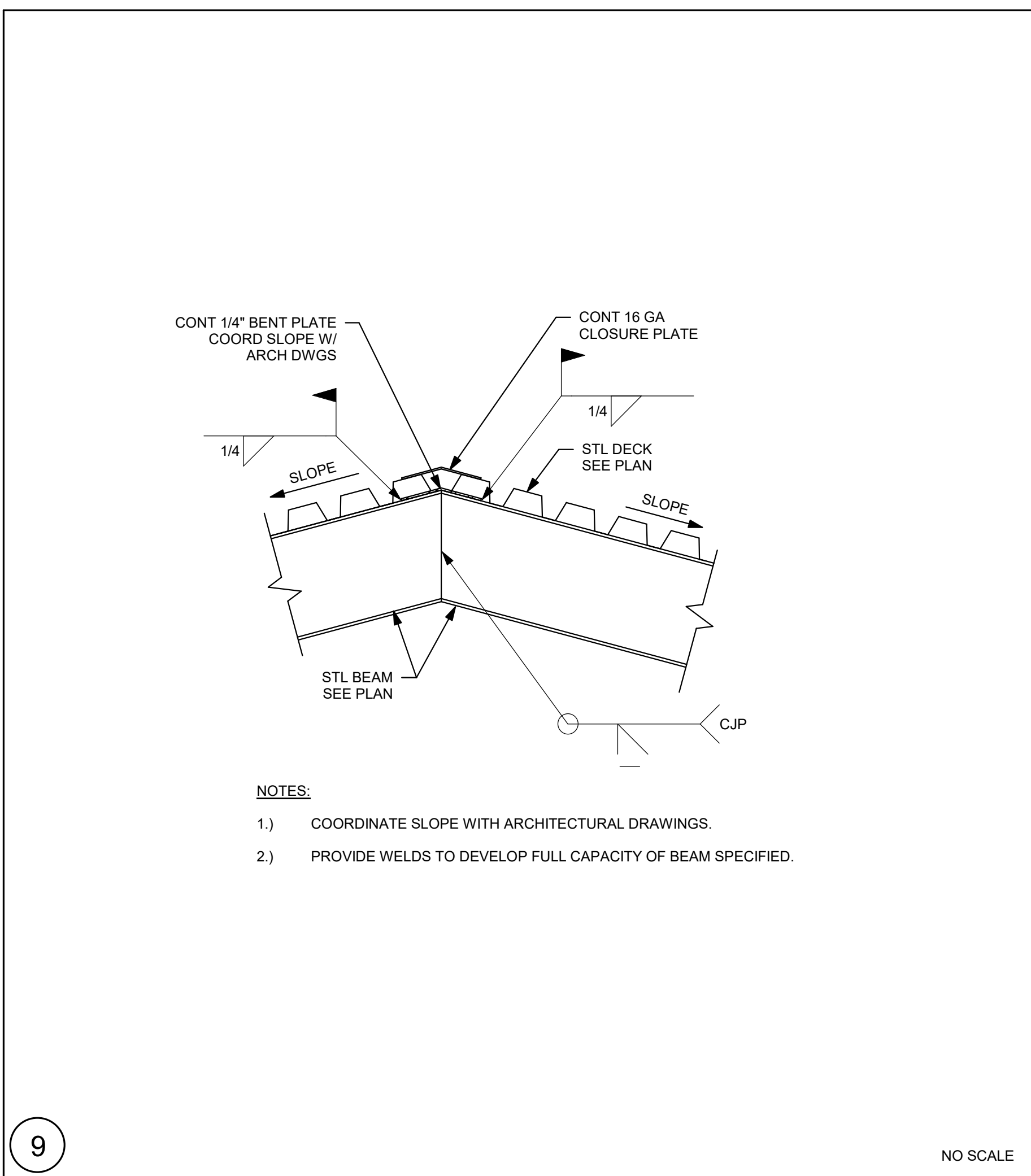
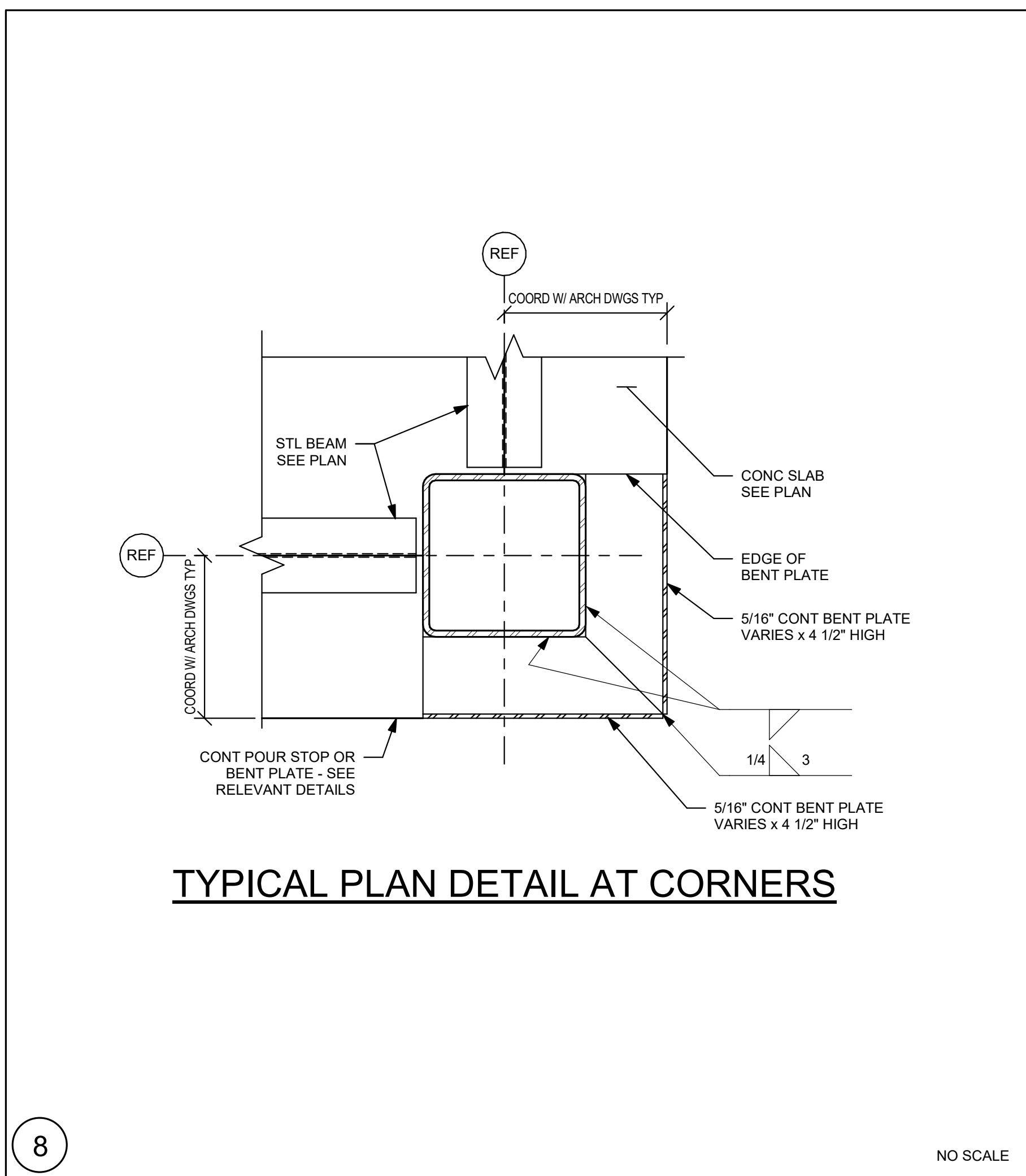
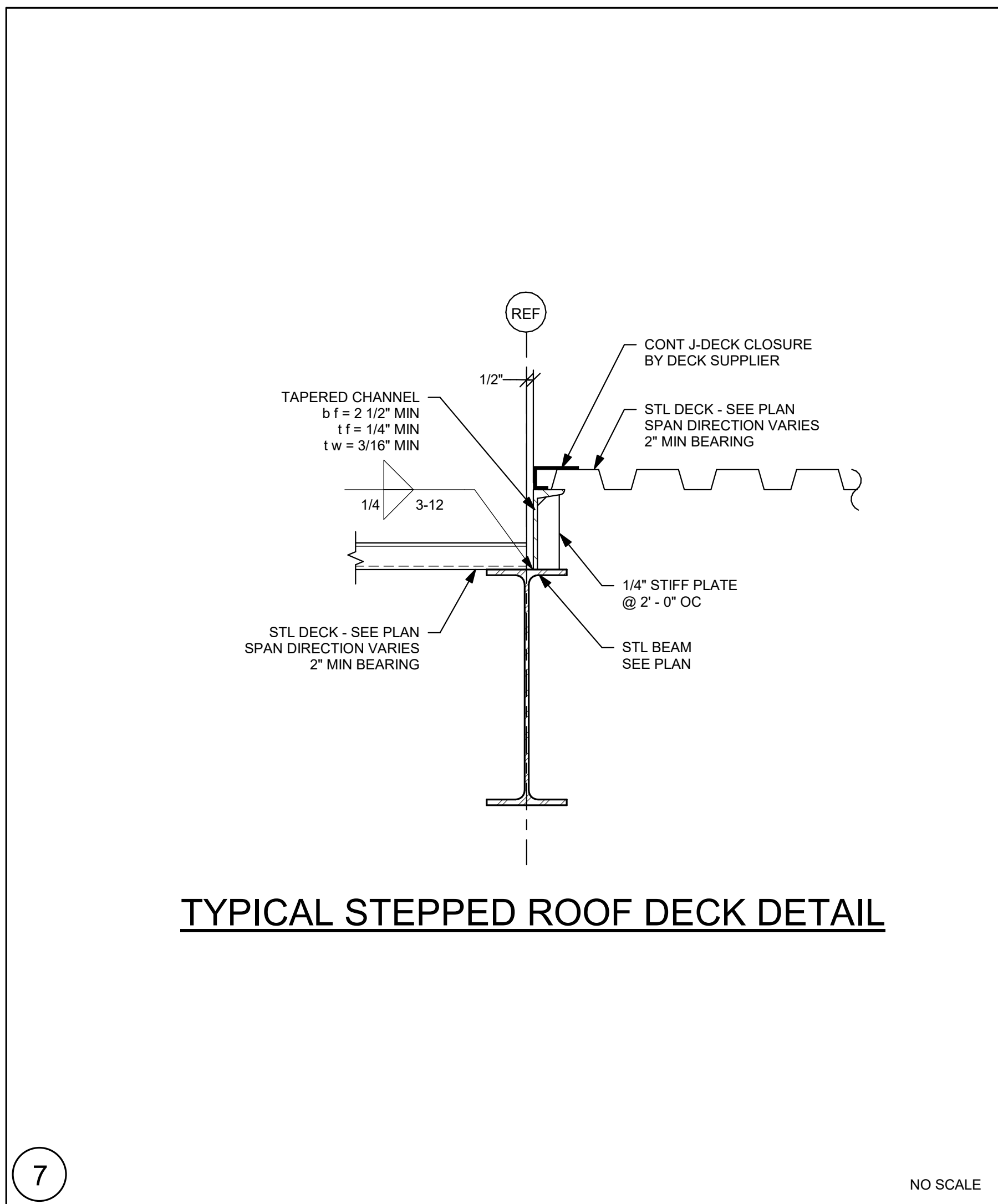
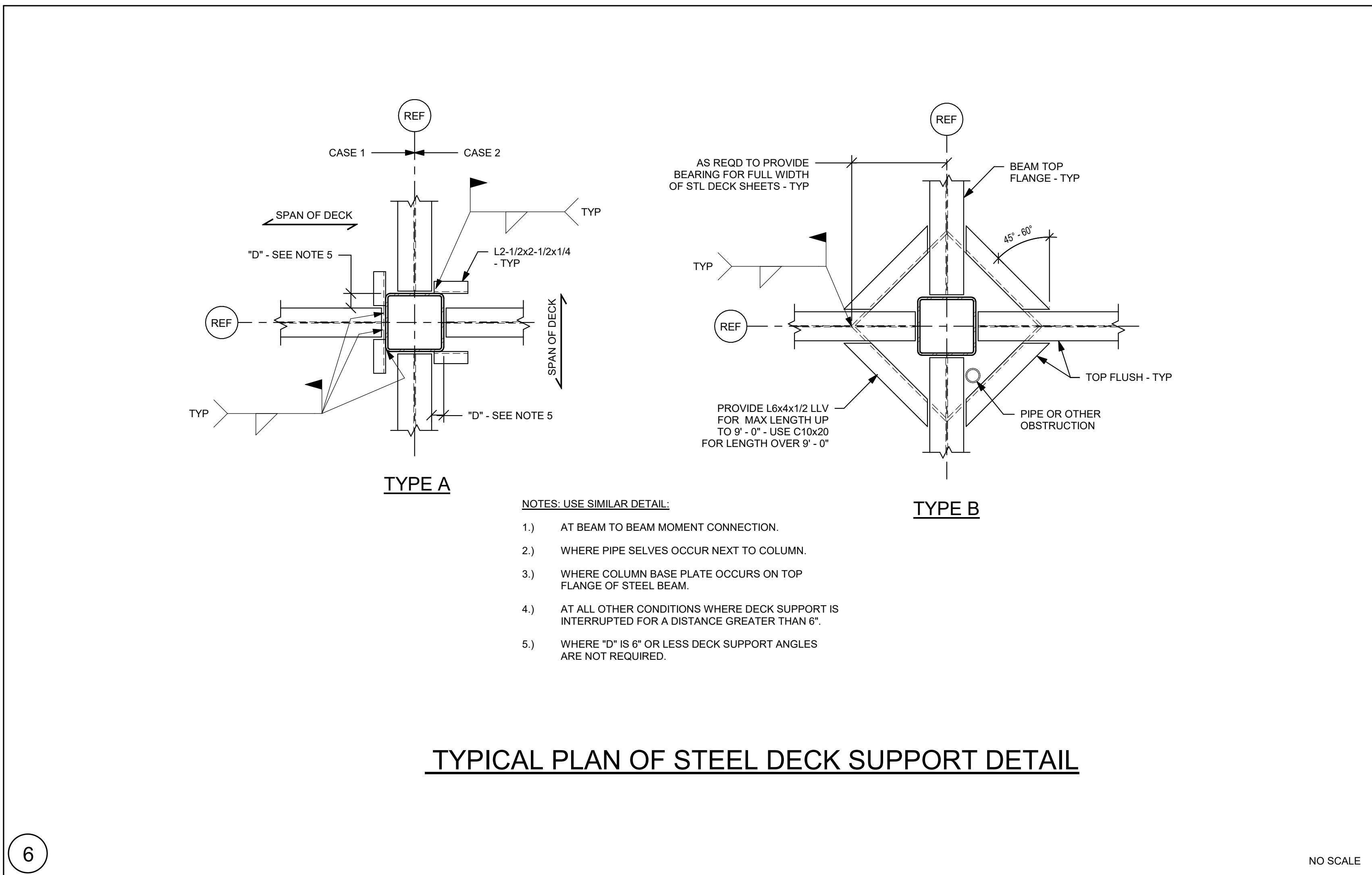
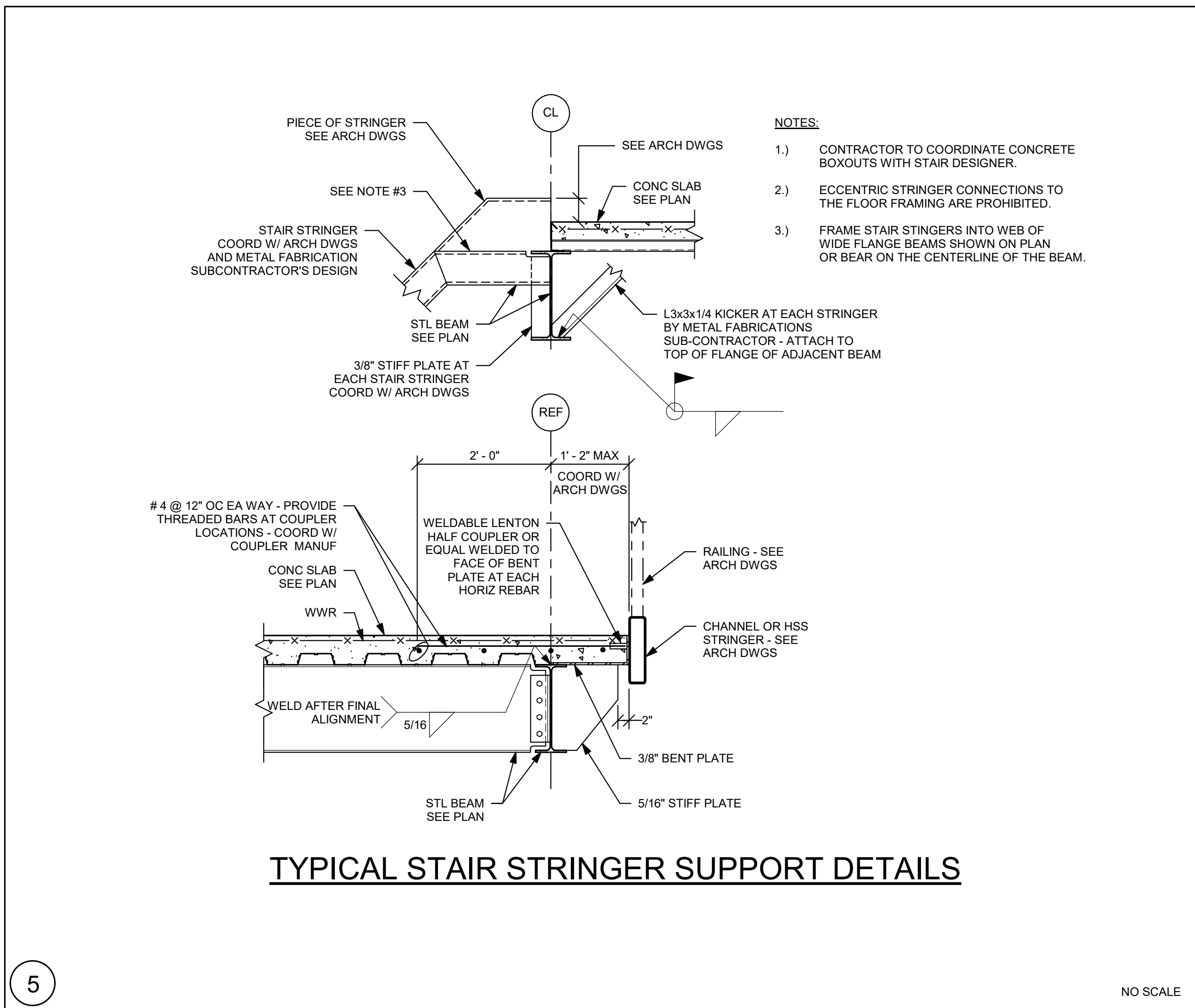
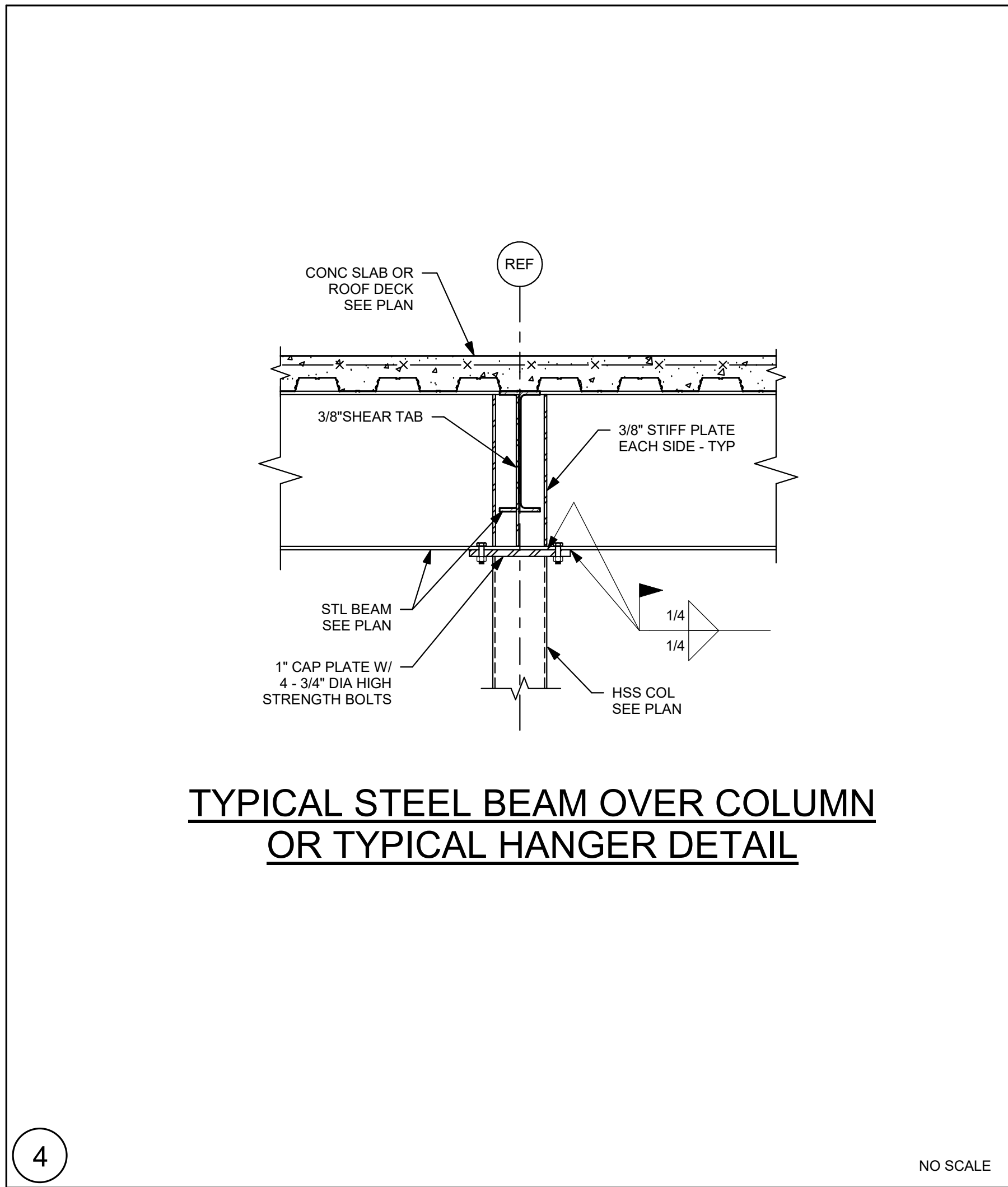
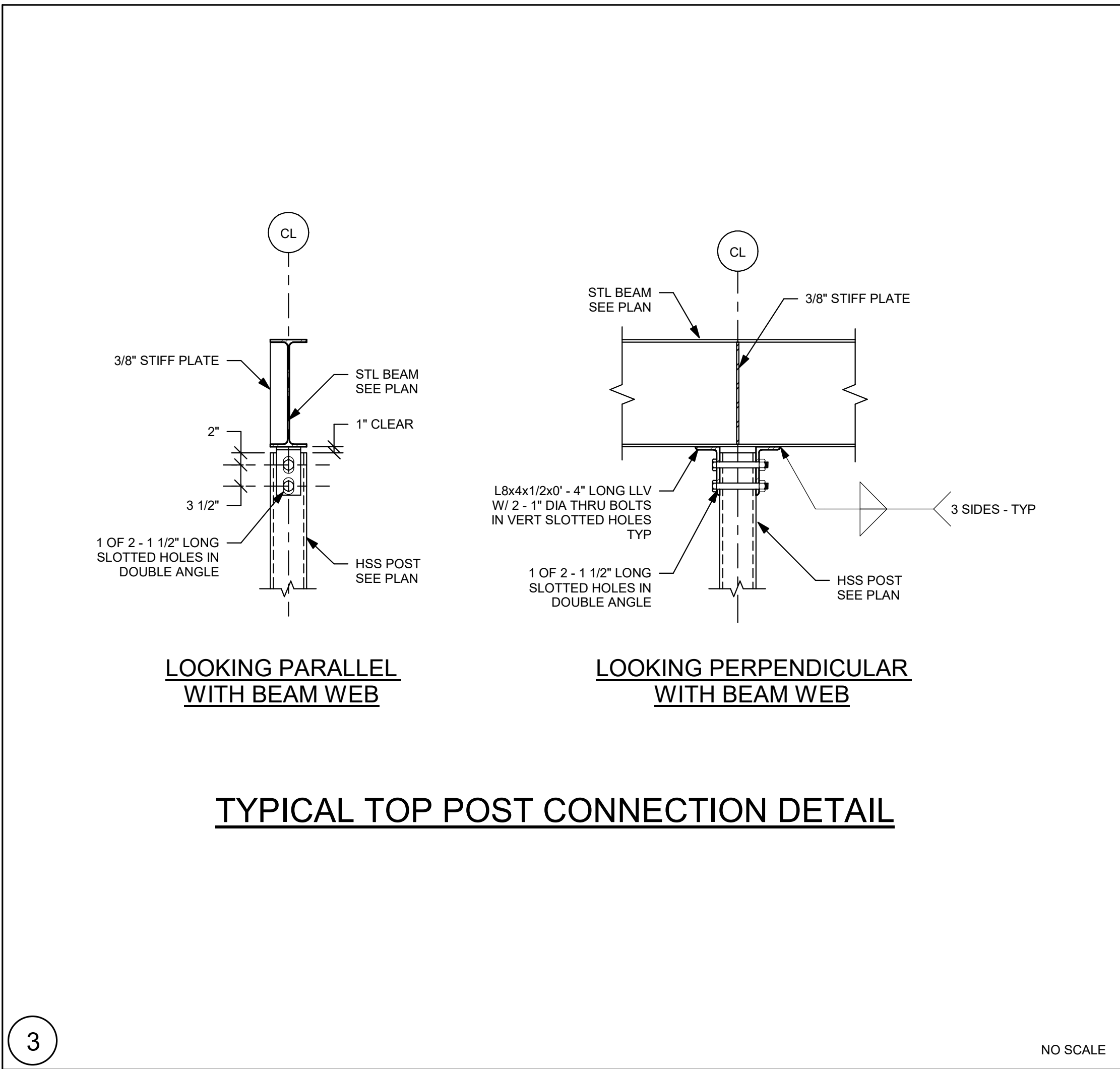
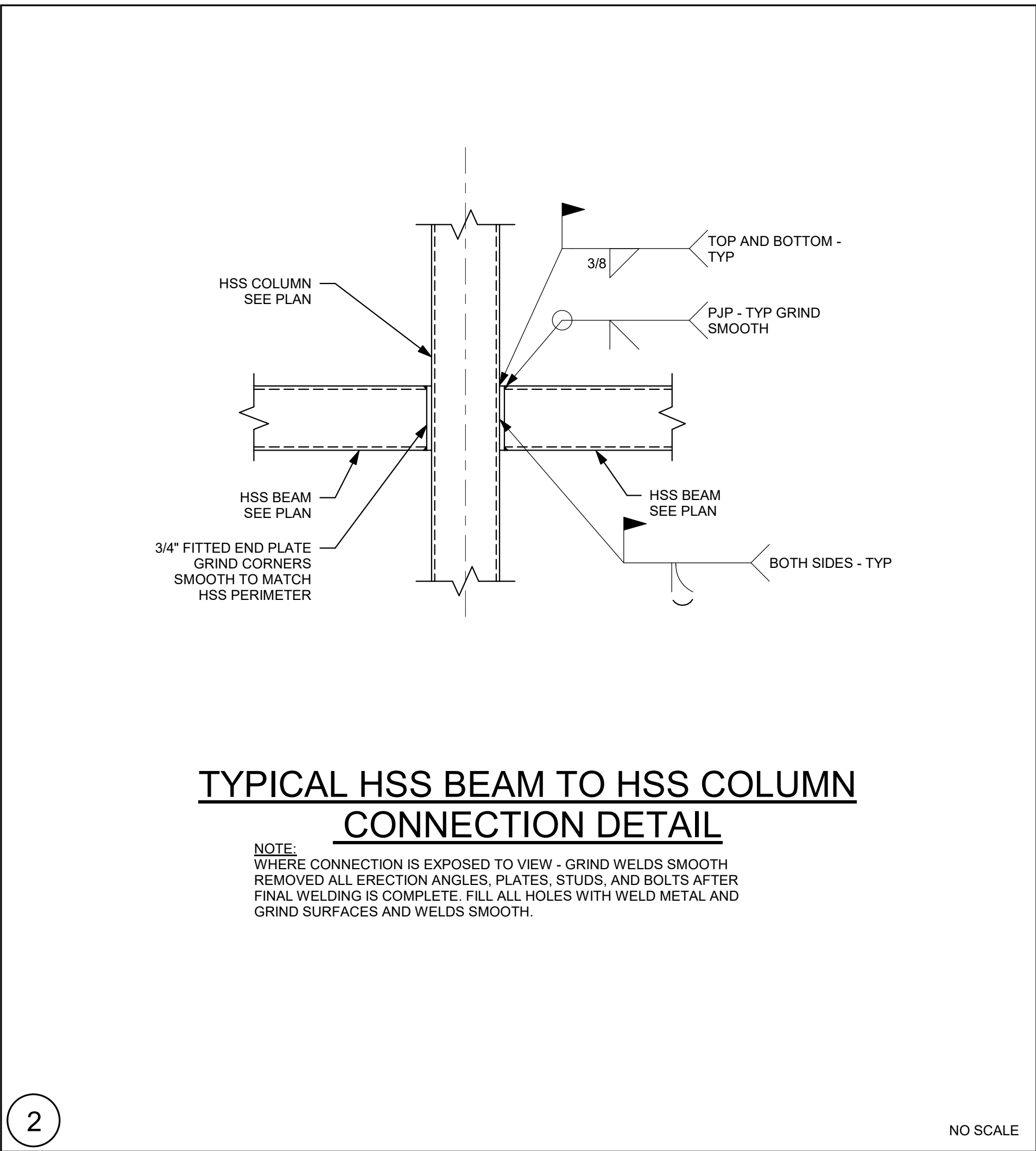
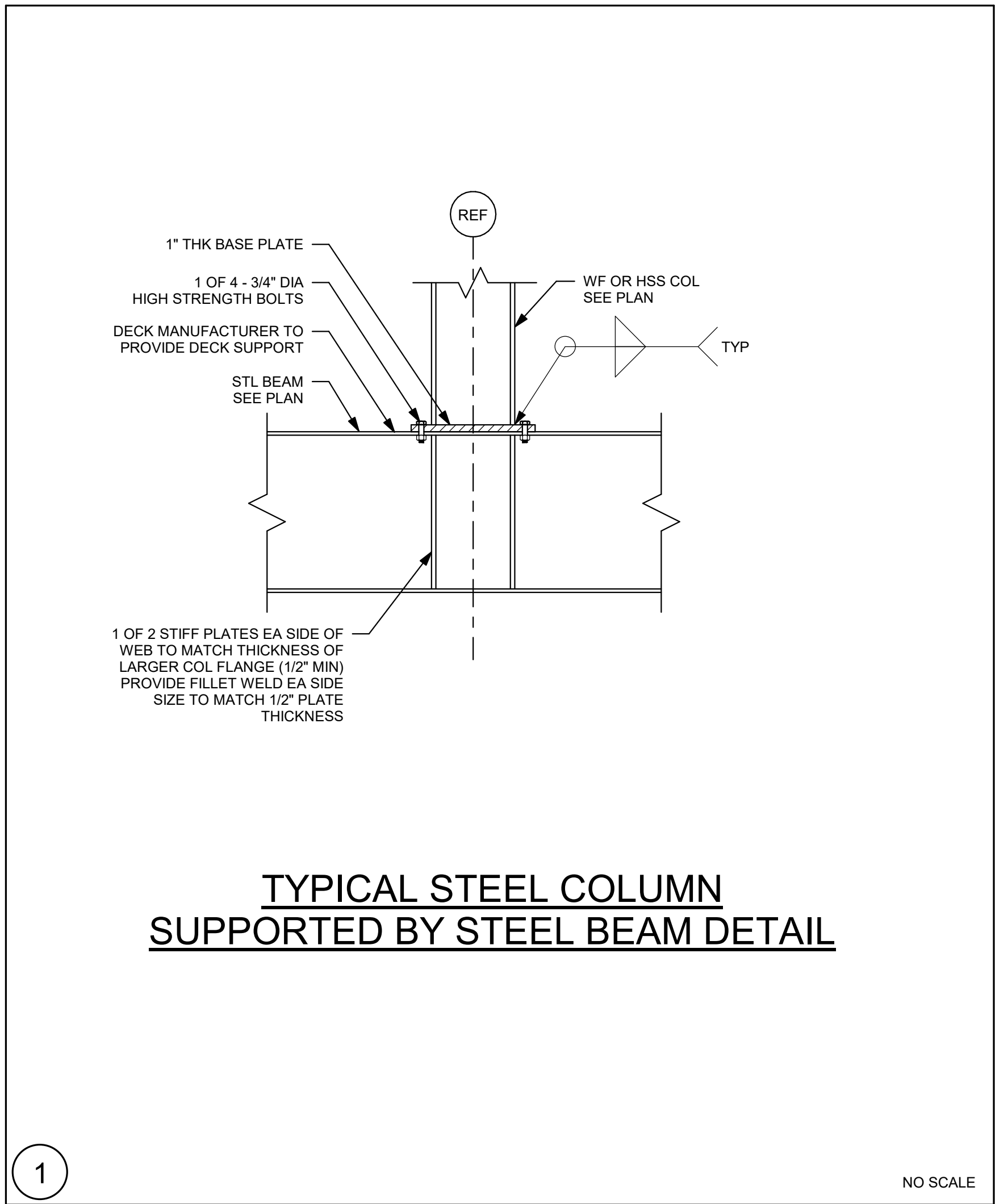
MAGNETIC NORTH

TYPICAL DETAILS

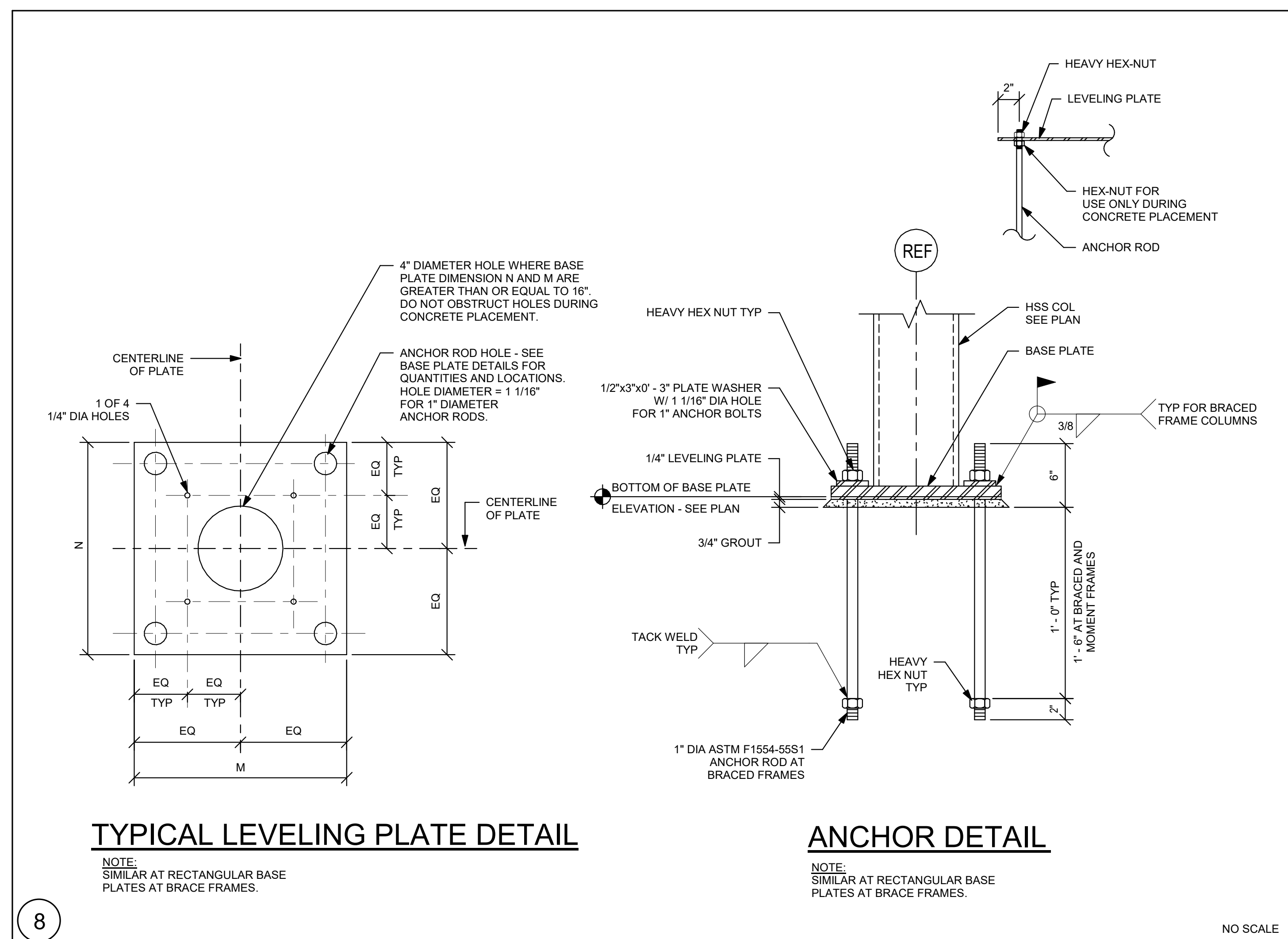
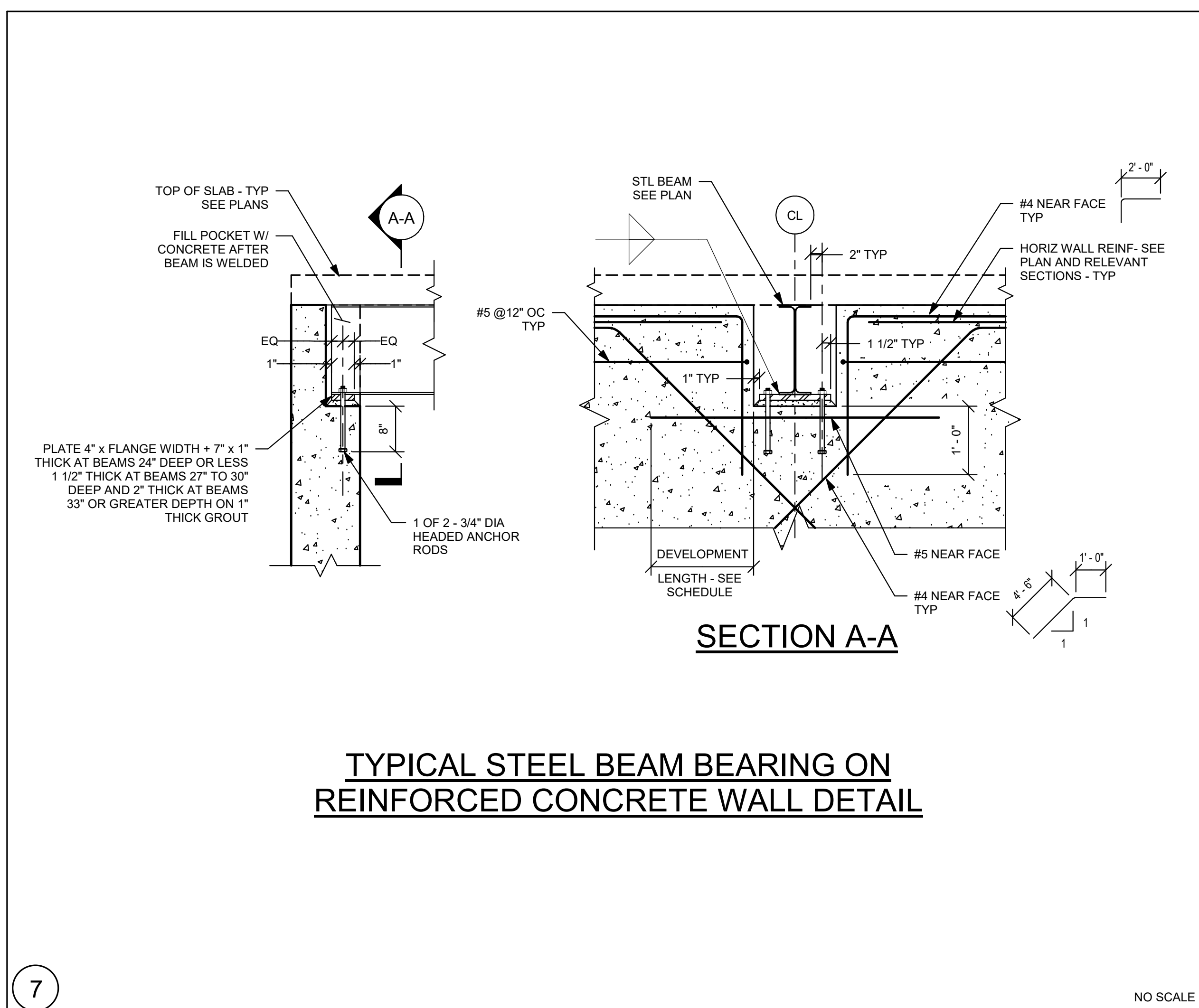
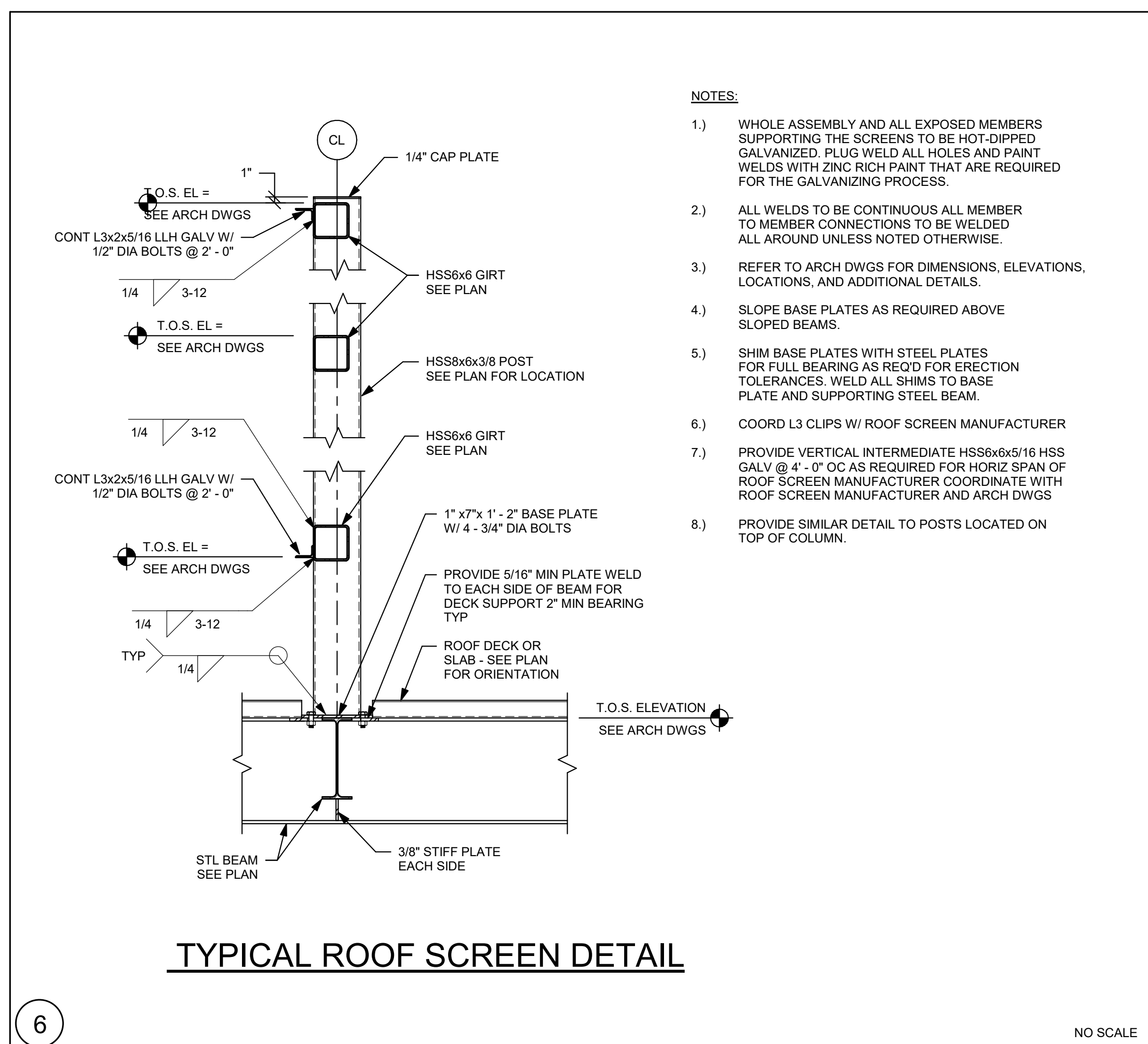
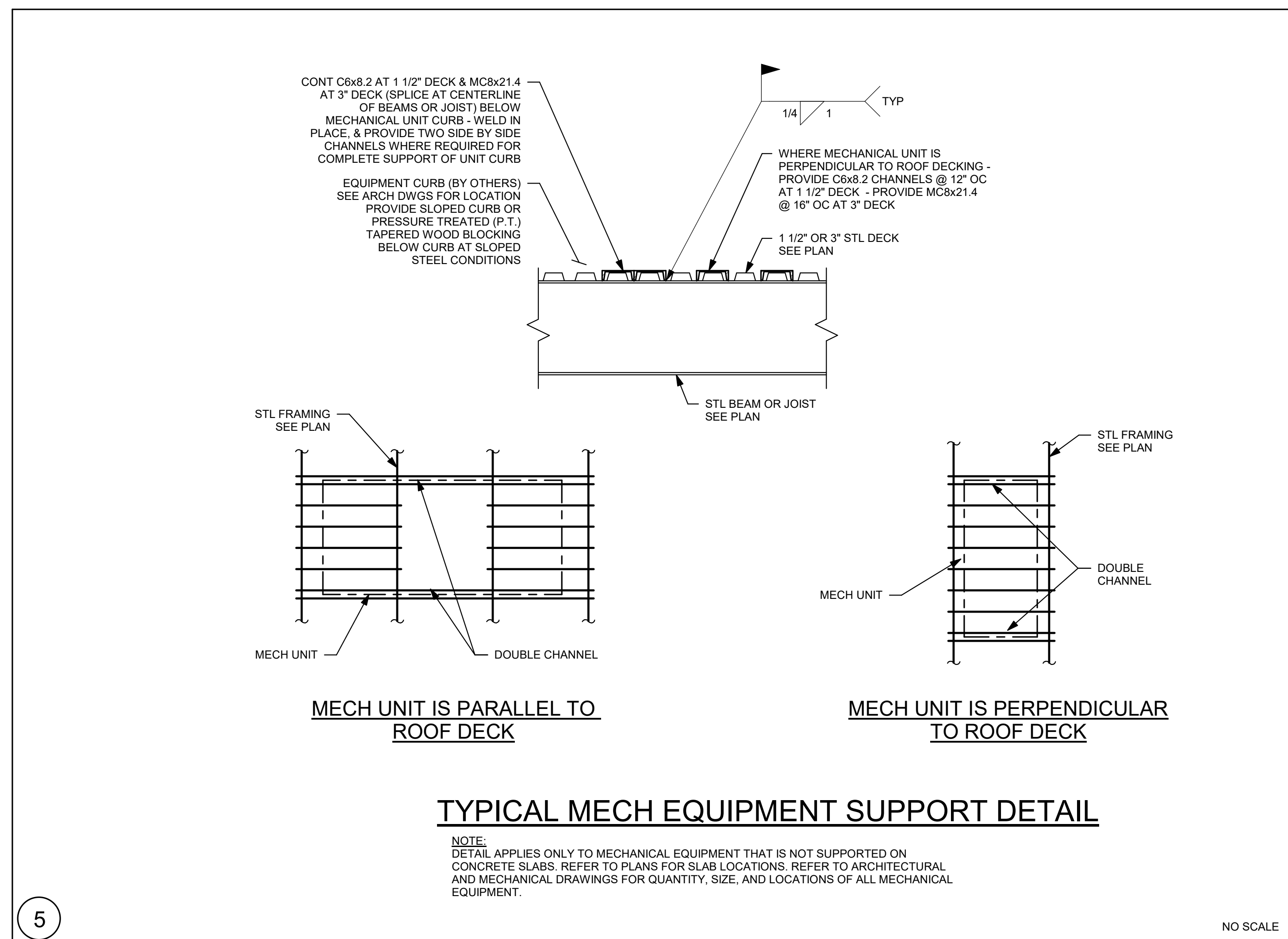
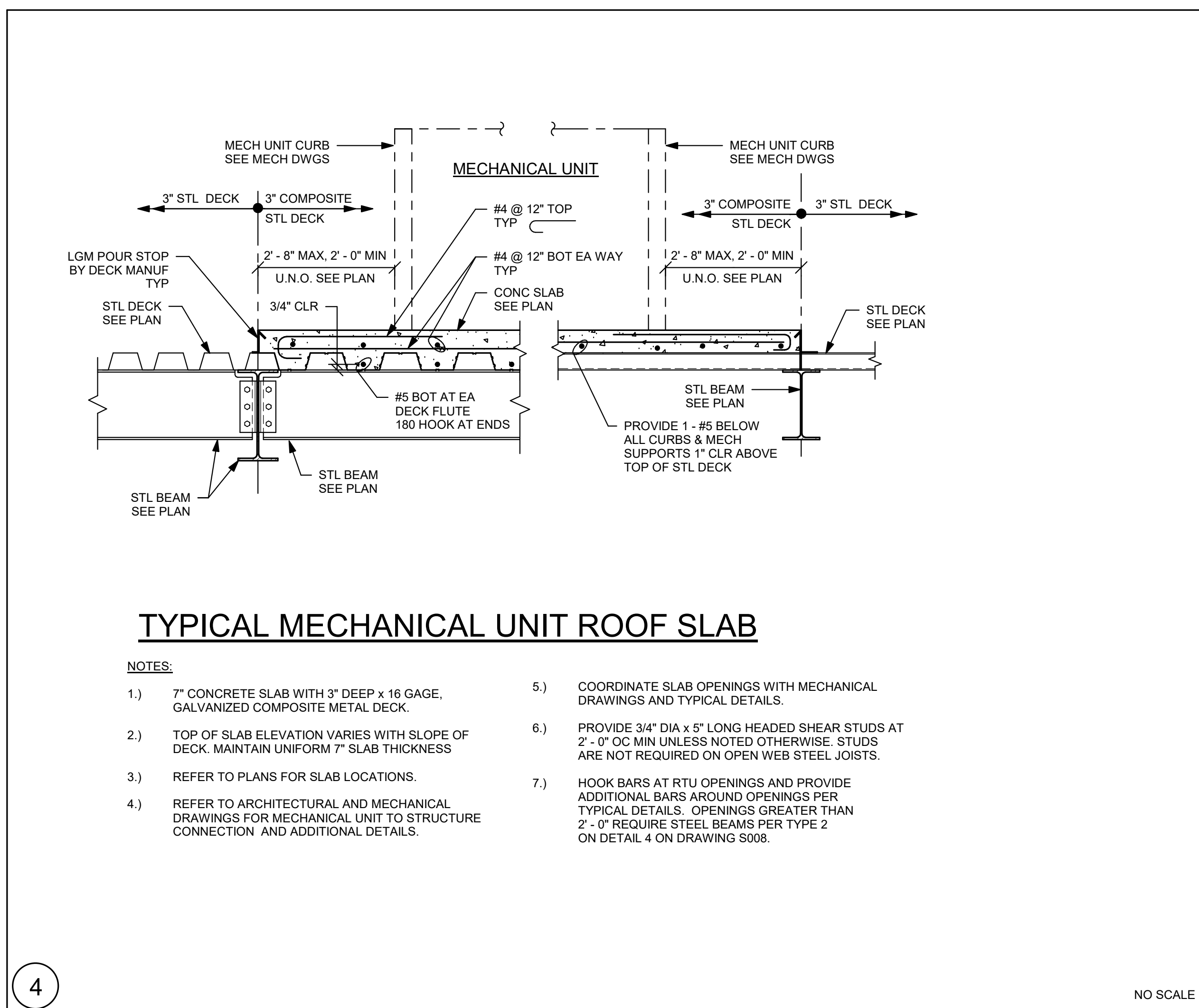
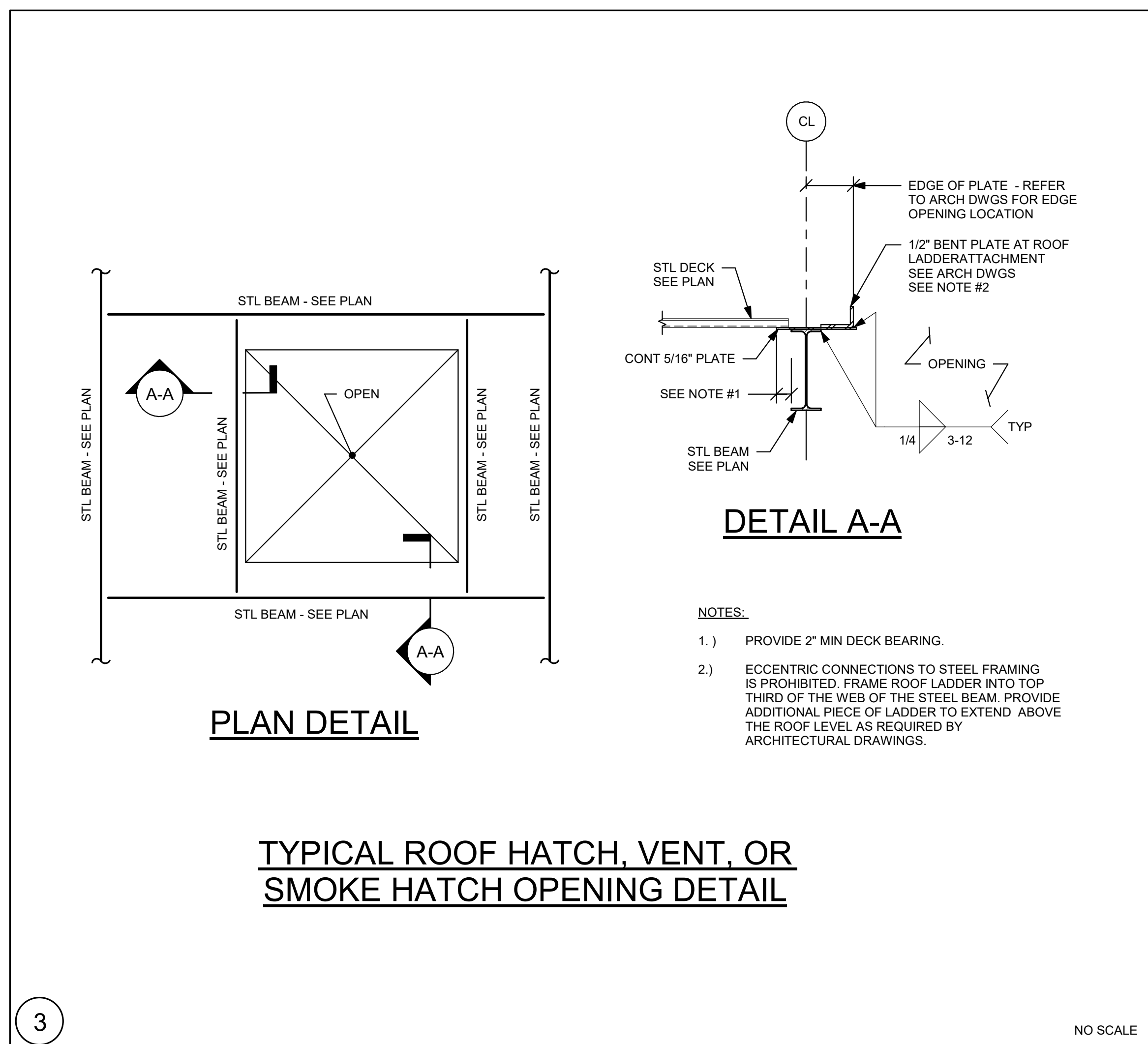
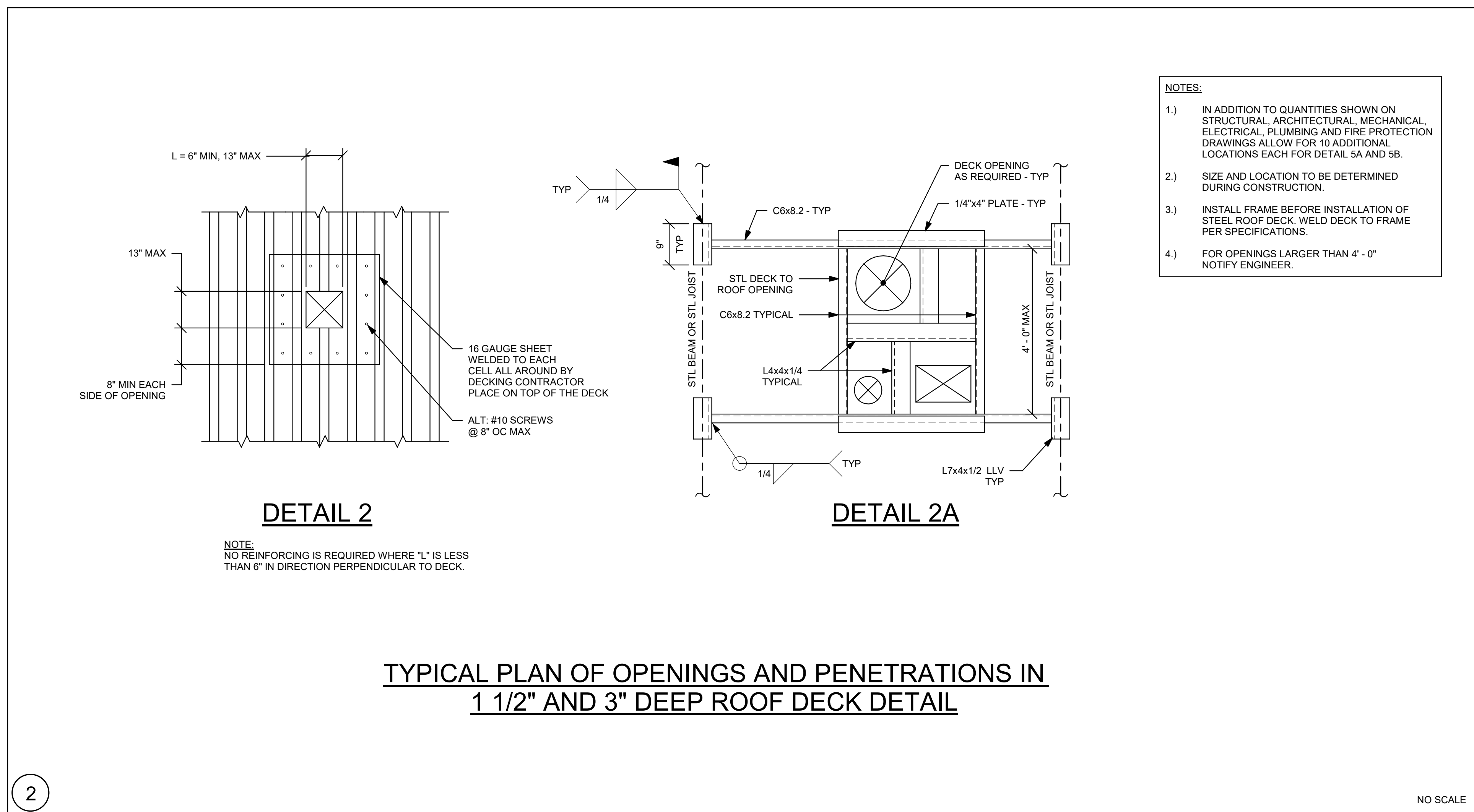
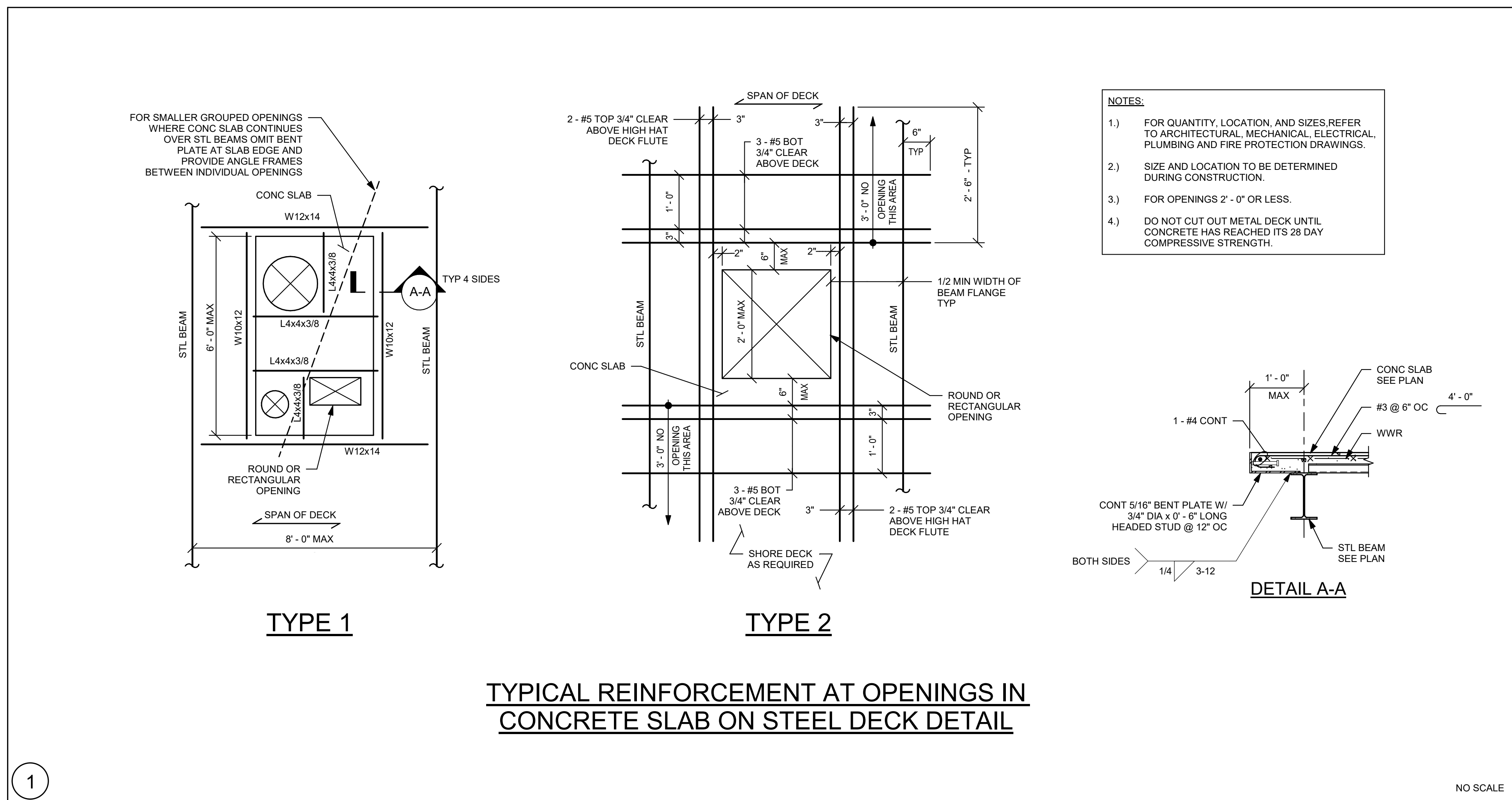
Scale: As indicated  
Job No.: 20202  
Drawn By: EDG  
Date: 01/13/2023

**S0-0-6**









DRA

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MSBA 60% CD  
Submission

01/13/2023

A B C D

KEY PLAN

PROJECT NORTH

MAGNETIC NORTH

TYPICAL  
DETAILS

Scale: As indicated  
Job No.: 20202  
Drawn By: EDG  
Date: 01/13/2023

S0-0-8



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### FOUNDATION NOTES

- REFER TO GRADING DRAWINGS FOR PLAN AND GRADE ELEVATIONS. THE STRUCTURAL DRAWINGS USES A DATUM OF 100'-0" AT THE FIRST FLOOR LEVEL, EQUAL TO 163.50' ON THE SITE GRADING PLANS.
- FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
- F3 ETC... INDICATES A FOOTING TYPE. FOR SIZE OF FOOTING AND REINFORCEMENT SEE SCHEDULE ON THIS DRAWING.
- TOP OF FOOTING ELEVATION TO BE 3'-6" MINIMUM BELOW LOWEST ADJACENT FINISHED GRADE AT EXTERIOR CONDITIONS AND 2'-11" BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS. ALL OTHER TOP OF FOOTING ELEVATIONS ARE TO BE 1'-11" BELOW TOP OF CONCRETE SLAB AT EXTERIOR CONDITIONS. CONTRACTOR TO COORDINATE AND VERIFY ALL TOP OF FOOTING ELEVATIONS WITH UNDERGROUND PLUMBING SUB-CONTRACTORS FIELD LAYOUT.
- ALL FOOTING ELEVATIONS NOTED ON PLAN ARE SHOWN ONLY TO ASSIST IN COORDINATION. ALL FOOTING ELEVATIONS MUST BE COORDINATED WITH STRUCTURAL REQUIREMENTS, TYPICAL DETAILS, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- ALL FOOTINGS TO BE CENTERED UNDER COLUMNS UNLESS NOTED OTHERWISE.
- SF INDICATES A STEPPED FOOTING REFER TO DETAIL 1 ON DRAWING S0-0-2.
- C1 ETC... INDICATES A COLUMN TYPE. FOR SIZE OF COLUMNS AND BASE PLATES SEE SCHEDULE ON THIS DRAWING.
- BOTTOM OF BASE PLATE ELEVATION TO BE 1'-11" MINIMUM BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS, AND 2'-11" BELOW TOP OF CONCRETE SLAB AT EXTERIOR CONDITIONS. UNLESS NOTED OTHERWISE AS 'X' REFER TO ARCHITECTURAL DRAWINGS FOR BRICK SHELF ELEVATIONS.
- FOR UNDER SLAB DRAINAGE AND WALL DRAINS, COORDINATE WITH ARCHITECTURAL, STRUCTURAL, CIVIL, AND PLUMBING DRAWINGS.
- INDICATES A DEPRESSED SLAB ON GRADE. REFER TO DETAILS 6 AND 7 ON DRAWING S0-0-2 COORDINATE ALL SLAB DEPRESSIONS WITH REQUIREMENTS ON ARCHITECTURAL DRAWINGS.
- FOR TYPICAL EXTERIOR DOOR DETAIL, REFER TO DETAIL 6 ON DRAWING S0-0-3 AND RELEVANT SECTIONS.
- BF-1 ETC... INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3 AND S4-0-4 FOR ADDITIONAL INFORMATION.
- INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-4 CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF SHEAR WALLS TO THE STRUCTURE.
- FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- INDICATES CONCRETE PIER REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-2.
- INDICATES UNDERGROUND UTILITY LINES PLUMBING THROUGH CONCRETE FOUNDATION WALL. TYPICAL, COORDINATE FOOTING ELEVATION WITH PIPE INVERTS AND TYPICAL STRUCTURAL DETAILS.
- INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- CONCRETE PIER REINFORCING PER DETAIL 5 ON DRAWING S0-0-2 IS TO BE PROVIDED FOR ALL CONCRETE WALLS SUPPORTING COLUMNS. HORIZONTAL WALL REINFORCING MUST REMAIN CONTINUOUS.

### COLUMN SCHEDULE \*

MARK	SIZE	BASE PLATE SIZE
C1	HSS8x8x3/8	1' x 16' x 1'-4"
C2	HSS8x8x1/2	1' x 16' x 1'-4"
C3	HSS12x12x3/8	1' x 20' x 1'-8"
C4	HSS12x12x1/2	1' x 20' x 1'-8"
C5	HSS12x12x5/8	1' x 20' x 1'-8"
C6	HSS12.75x6.500	1' x 20' x 1'-8"
C7	HSS20x12x1/2	1 1/2' x 20' x 2'-4"
C8	HSS8x4x3/8	1' x 16' x 1'-0"
C9	HSS16x6.500	1 1/2' x 24' x 2'-0"
C10	HSS12x6x1/2	1 1/2' x 20' x 1'-2"
C11	HSS10x6.500	1' x 18' x 1'-6"
C12	HSS6x6x3/8	1' x 14' x 1'-2"

\* BASE PLATE LENGTH AND WIDTH SPECIFIED IN SCHEDULE IS THE MINIMUM SIZE FOR A COLUMN THAT IS PART OF A BRACED FRAME. SEE FOUNDATION NOTE ABOVE AND REFER TO DETAILS ON DRAWING S4-0-2 FOR ADDITIONAL INFORMATION.

\* PROVIDE 4 - 1" DIA F1554-55S1 ANCHOR RODS TYPICALLY. REFER TO DETAILS ON DRAWING S4-0-3 FOR ADDITIONAL ANCHOR RODS FOR COLUMN RECEIVING BRACINGS.

### FOOTING SCHEDULE F SERIES

MARK	SIZE	REINFORCEMENT
F4	4'-0" x 4'-0" x 2'-0"	6 - #5 BOT EA WAY
F5	5'-0" x 5'-0" x 2'-0"	7 - #5 BOT EA WAY
F6	6'-0" x 6'-0" x 2'-0"	8 - #5 BOT EA WAY
F7	7'-0" x 7'-0" x 2'-0"	9 - #5 BOT EA WAY
F8	8'-0" x 8'-0" x 3'-0"	10 - #8 BOT EA WAY
F9	9'-0" x 9'-0" x 3'-0"	11 - #9 BOT EA WAY
F10	10'-0" x 10'-0" x 3'-0"	12 - #9 BOT EA WAY
F11	11'-0" x 11'-0" x 3'-0"	13 - #10 BOT EA WAY
F12	12'-0" x 12'-0" x 4'-0"	14 - #10 BOT EA WAY
FA	SEE PLAN x 2'-0"	#8 @ 12" OC TOP AND BOT EA WAY

1 INDICATES TOP REINFORCING TO MATCH BOTTOM REINFORCING

### FOOTING SCHEDULE G SERIES

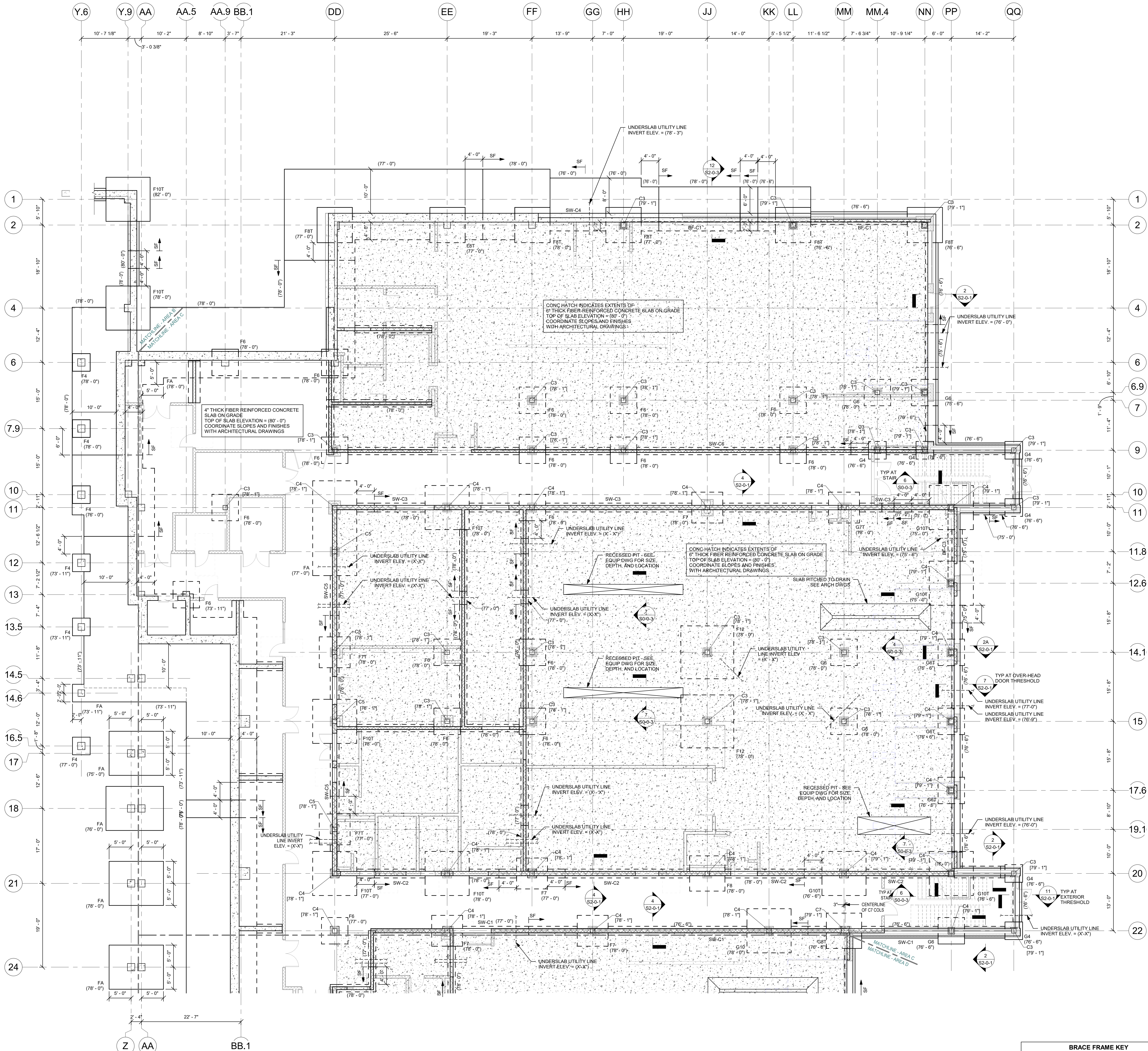
MARK	SIZE	REINFORCEMENT
G4	4'-0" x 4'-0" x 2'-0"	5 - #5 BOT EA WAY
G5	5'-0" x 5'-0" x 2'-0"	6 - #5 BOT EA WAY
G6	6'-0" x 6'-0" x 2'-0"	7 - #5 BOT EA WAY
G7	7'-0" x 7'-0" x 2'-0"	8 - #5 BOT EA WAY
G8	8'-0" x 8'-0" x 2'-0"	9 - #5 BOT EA WAY
G9	9'-0" x 9'-0" x 2'-0"	10 - #7 BOT EA WAY
G10	10'-0" x 10'-0" x 2'-0"	11 - #7 BOT EA WAY
G11	11'-0" x 11'-0" x 2'-0"	12 - #8 BOT EA WAY
G12	12'-0" x 12'-0" x 3'-0"	13 - #8 BOT EA WAY
G13	13'-0" x 13'-0" x 3'-0"	14 - #9 BOT EA WAY
G14	14'-0" x 14'-0" x 3'-0"	15 - #9 BOT EA WAY
G15	15'-0" x 15'-0" x 3'-0"	16 - #9 BOT EA WAY
GA	SEE PLAN x 2'-0"	#8 @ 12" OC TOP AND BOT EA WAY

1 INDICATES TOP REINFORCING TO MATCH BOTTOM REINFORCING

### BRACE FRAME KEY

0" TYP	WF	BF-X	INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL
0" TYP	BF-X	WF	INDICATES A BRACE FRAME ABOVE LEVEL
0" TYP	WF	BF-X	INDICATES A BRACE FRAME BELOW LEVEL

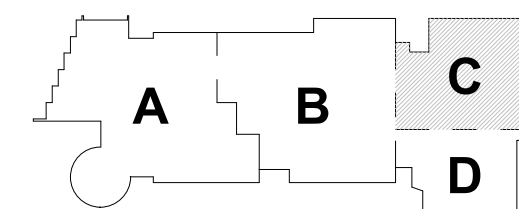
**SPRAY FIREPROOFING NOTES**  
STEEL COLUMNS SHOWN ON THIS DRAWING TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.



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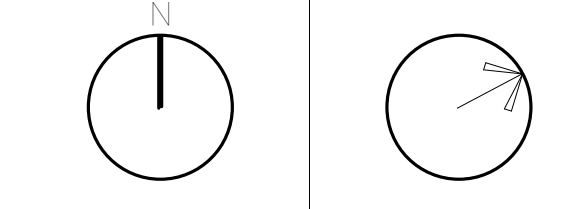
MSBA 60% CD  
Submission

01/13/2023



KEY PLAN

PROJECT NORTH MAGNETIC NORTH



## LOWER LEVEL FOUNDATION PLAN - AREA C

Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: EDG

Date: 01/13/2023

S1-1-0C



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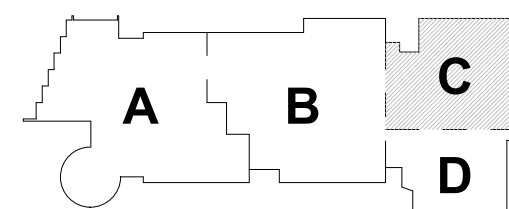


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Submission

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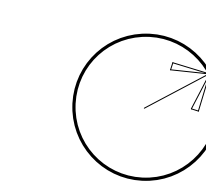


KEY PLAN

PROJECT NORTH



MAGNETIC NORTH



## LOWER LEVEL FOUNDATION PLAN - AREA D

Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: EDG

Date: 01/13/2023

S1-1-0D

### FOUNDATION NOTES:

- REFER TO GRADING DRAWINGS FOR PLAN AND GRADE ELEVATIONS. THE STRUCTURAL DRAWINGS USES A DATUM OF 100'-0" AT THE FIRST FLOOR LEVEL, EQUAL TO 163.50' ON THE SITE GRADING PLANS.
- FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
- F3 ETC... INDICATES A FOOTING TYPE. FOR SIZE OF FOOTING AND REINFORCEMENT SEE SCHEDULE ON THIS DRAWING.
- TOP OF FOOTING ELEVATION TO BE 3'-6" MINIMUM BELOW LOWEST ADJACENT FINISHED GRADE AT EXTERIOR CONDITIONS AND 2'-0" BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS. ALL OTHER TOP OF FOOTING ELEVATIONS ARE DENOTED AS THUS (X'-X") COMPUTED FROM A DATUM ELEVATION OF 100'-0" ON PLANS. CONTRACTOR TO COORDINATE AND VERIFY ALL TOP OF FOOTING ELEVATIONS WITH UNDERGROUND PLUMBING SUB-CONTRACTOR'S FIELD LAYOUT.
- ALL FOOTING ELEVATIONS NOTED ON PLAN ARE SHOWN ONLY TO ASSIST IN COORDINATION. ALL FOOTING ELEVATIONS MUST BE COORDINATED WITH STRUCTURAL REQUIREMENTS, TYPICAL DETAILS, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- ALL FOOTINGS TO BE CENTERED UNDER COLUMNS UNLESS NOTED OTHERWISE.
- SF INDICATES A STEPPED FOOTING REFER TO DETAIL 1 ON DRAWING S0-0-2.
- C1 ETC... INDICATES A COLUMN TYPE. FOR SIZE OF COLUMNS AND BASE PLATES SEE SCHEDULE ON THIS DRAWING.
- BOTTOM OF BASE PLATE ELEVATION TO BE 1'-11" MINIMUM BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS, AND 7'-11" BELOW TOP OF CONCRETE SLAB AT EXTERIOR CONDITIONS. UNLESS NOTED OTHERWISE AS (X'-X") REFER TO ARCHITECTURAL DRAWINGS FOR BRICK SHELF ELEVATIONS.
- FOR UNDER SLAB DRAINAGE AND WALL DRAINS, COORDINATE WITH ARCHITECTURAL, STRUCTURAL, CIVIL, AND PLUMBING DRAWINGS.
- INDICATES A DEPRESSED SLAB ON GRADE. REFER TO DETAILS 6 AND 7 ON DRAWING S0-0-2 COORDINATE ALL SLAB DEPRESSIONS WITH REQUIREMENTS ON ARCHITECTURAL DRAWINGS.
- FOR TYPICAL EXTERIOR DOOR DETAIL REFER TO DETAIL 6 ON DRAWING S0-0-3 AND RELEVANT SECTIONS.
- BF-1 ETC... INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3 AND S4-0-4 FOR ADDITIONAL INFORMATION.
- INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF BREAK WALLS TO THE STRUCTURE.
- FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- INDICATES CONCRETE PIER REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-2.
- INDICATES UNDERGROUND UTILITY LINES PLUMBING THROUGH CONCRETE FOUNDATION WALL. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- CONCRETE PIER REINFORCING PER DETAIL 5 ON DRAWING S0-0-2 IS TO BE PROVIDED FOR ALL CONCRETE WALLS SUPPORTING COLUMNS. HORIZONTAL WALL REINFORCING MUST REMAIN CONTINUOUS.

### COLUMN SCHEDULE \*

MARK	SIZE	BASE PLATE SIZE
C1	HSS8x8x3/8	1' x 18" x 1' - 4"
C2	HSS8x8x1/2	1' x 18" x 1' - 4"
C3	HSS12x12x3/8	1' x 20" x 1' - 8"
C4	HSS12x12x1/2	1' x 20" x 1' - 8"
C5	HSS12x12x5/8	1' x 20" x 1' - 8"
C6	HSS12.75x6.500	1' x 20" x 1' - 8"
C7	HSS20x12x1/2	1 1/2' x 20" x 2' - 4"
C8	HSS8x4x3/8	1' x 18" x 1' - 2"
C9	HSS16x6.500	1 1/2' x 24" x 2' - 0"
C10	HSS12x6x1/2	1 1/2' x 20" x 1' - 2"
C11	HSS10x6.500	1' x 18" x 1' - 6"
C12	HSS6x6x3/8	1' x 14" x 1' - 2"

\* BASE PLATE LENGTH AND WIDTH SPECIFIED IN SCHEDULE IS THE MINIMUM SIZE FOR A COLUMN THAT IS PART OF A BRACED FRAME. SEE FOUNDATION NOTE ABOVE AND REFER TO DETAILS ON DRAWING S4-0-2 FOR ADDITIONAL INFORMATION.

\* PROVIDE 4 - #1 DIA F1554-55S ANCHOR RODS TYPICALLY. REFER TO DETAILS ON DRAWING S4-0-3 FOR ADDITIONAL ANCHOR RODS FOR COLUMN RECEIVING BRACING.

### FOOTING SCHEDULE F SERIES

MARK	SIZE	REINFORCEMENT
F4	4'-0" x 4'-0" x 2'-0"	6 - #5 BOT EA WAY
F5	5'-0" x 5'-0" x 2'-0"	7 - #5 BOT EA WAY
F6	6'-0" x 6'-0" x 2'-0"	8 - #6 BOT EA WAY
F7	7'-0" x 7'-0" x 2'-0"	9 - #6 BOT EA WAY
F8	8'-0" x 8'-0" x 3'-0"	10 - #6 BOT EA WAY
F9	9'-0" x 9'-0" x 3'-0"	11 - #9 BOT EA WAY
F10	10'-0" x 10'-0" x 3'-0"	12 - #9 BOT EA WAY
F11	11'-0" x 11'-0" x 3'-0"	13 - #10 BOT EA WAY
F12	12'-0" x 12'-0" x 4'-0"	14 - #10 BOT EA WAY
FA	SEE PLAN x 2' - 0"	#8 @ 12" OC TOP AND BOT EA WAY

### FOOTING SCHEDULE G SERIES

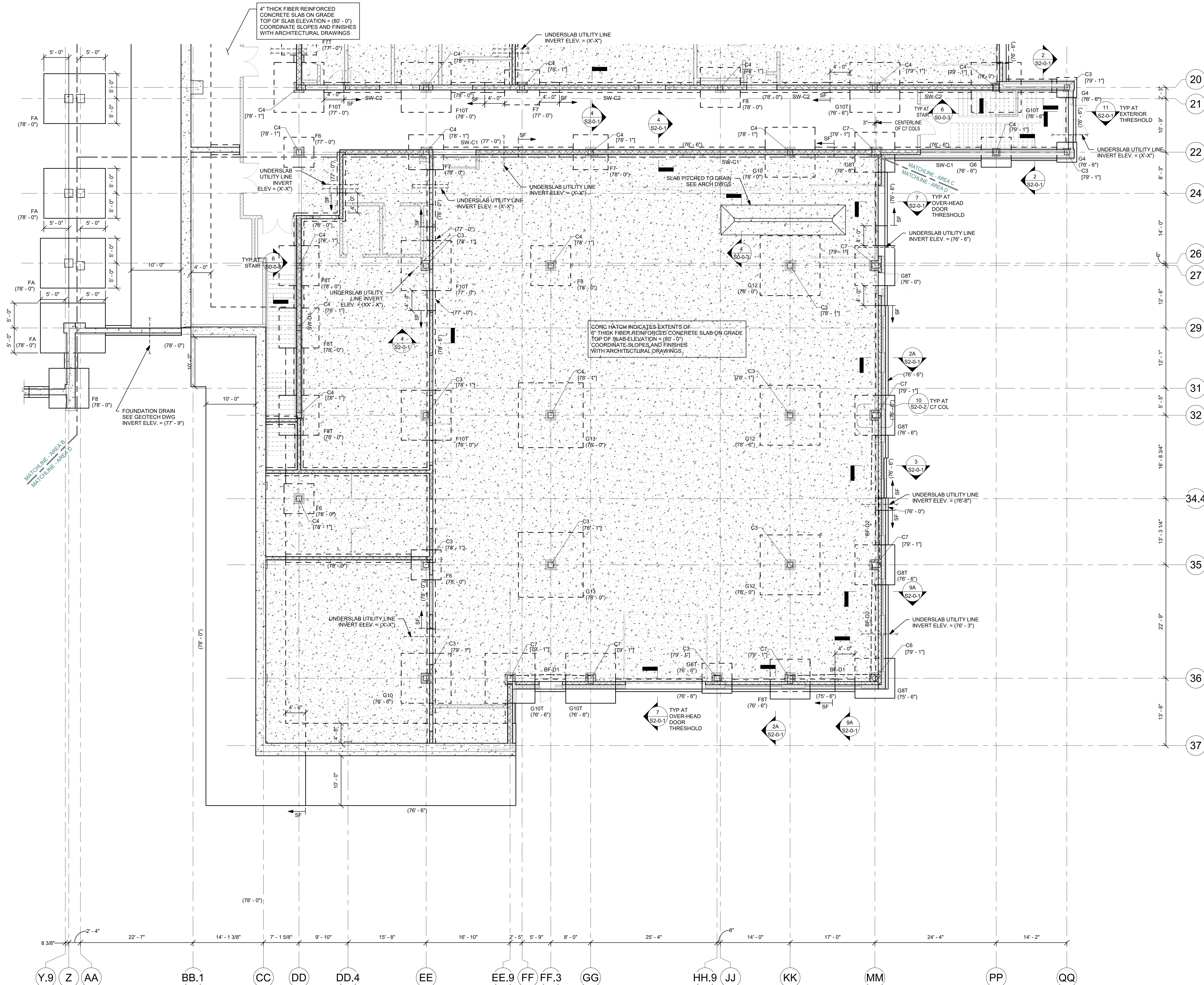
MARK	SIZE	REINFORCEMENT
G4	4'-0" x 4'-0" x 2'-0"	5 - #5 BOT EA WAY
G5	5'-0" x 5'-0" x 2'-0"	6 - #5 BOT EA WAY
G6	6'-0" x 6'-0" x 2'-0"	7 - #6 BOT EA WAY
G7	7'-0" x 7'-0" x 2'-0"	8 - #6 BOT EA WAY
G8	8'-0" x 8'-0" x 2'-0"	9 - #6 BOT EA WAY
G9	9'-0" x 9'-0" x 2'-0"	10 - #7 BOT EA WAY
G10	10'-0" x 10'-0" x 2'-0"	11 - #7 BOT EA WAY
G11	11'-0" x 11'-0" x 2'-0"	12 - #8 BOT EA WAY
G12	12'-0" x 12'-0" x 3'-0"	13 - #8 BOT EA WAY
G13	13'-0" x 13'-0" x 3'-0"	14 - #9 BOT EA WAY
G14	14'-0" x 14'-0" x 3'-0"	15 - #9 BOT EA WAY
G15	15'-0" x 15'-0" x 3'-0"	16 - #9 BOT EA WAY
GA	SEE PLAN x 2' - 0"	#8 @ 12" OC TOP AND BOT EA WAY

T INDICATES TOP REINFORCING TO MATCH BOTTOM REINFORCING

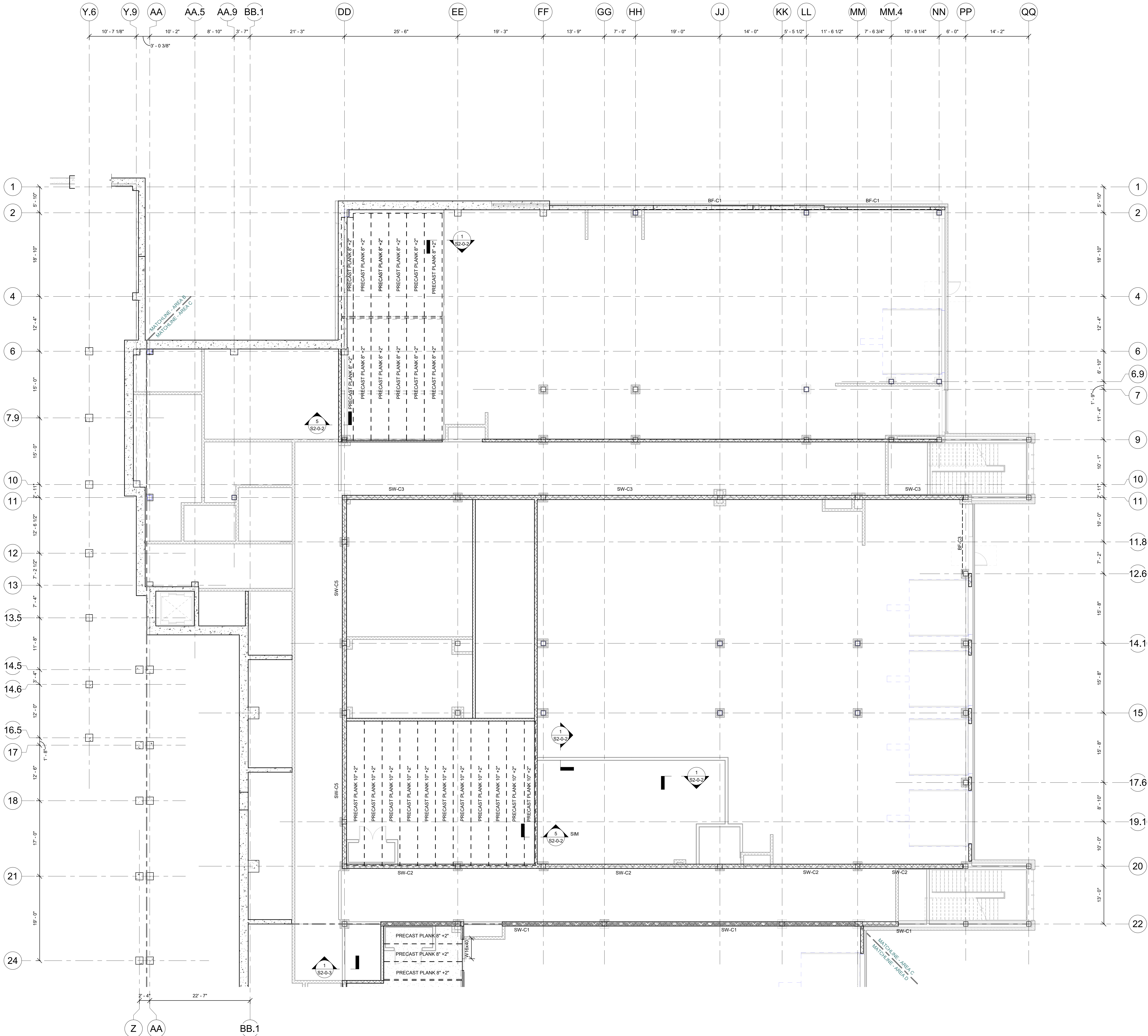
### BRACE FRAME KEY

0" TYP	WF	BE-X	INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL
0" TYP	WF		INDICATES A BRACE FRAME ABOVE LEVEL
0" TYP	WF	BF-X	INDICATES A BRACE FRAME BELOW LEVEL

**SPRAY FIREPROOFING NOTES:**  
STEEL COLUMNS SHOWN ON THIS DRAWING TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING, CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.





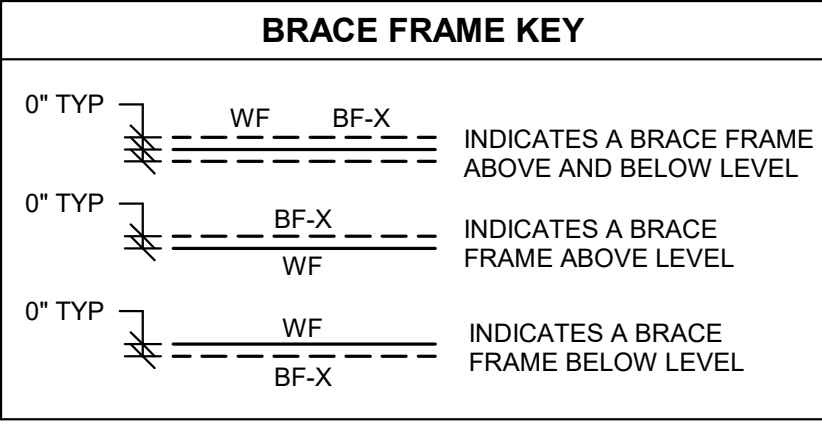


**FRAMING ELEVATION NOTES:**

- 1.) TYPICAL TOP-OF-CONCRETE ELEVATION = (89'-8") AT THE MEZZANINE FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (DD) - (HH) AND (Q) - (R).
- 2.) COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

**SPRAY FIREPROOFING NOTES:**

STEEL COLUMNS SHOWN ON THIS DRAWING TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.



- FRAMING NOTES:**
- 1.) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
  - 2.) REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. PITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
  - 3.) BF-1 ETC., INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3 AND S4-0-4 FOR ADDITIONAL INFORMATION.
  - 4.) [XX] INDICATES THE NUMBER OF 3/4" DIAMETER x 4 1/4" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.
  - 5.) [MOMENT CONNECTION] INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 5 AND 9 ON DRAWING S0-0-5 AND DETAIL 3 ON DRAWING S0-0-7.
  - 6.) [5/16" FILLET WELD] INDICATES A 5/16" FILLET WELD ALL AROUND (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO TYPICAL DETAIL 2 ON DRAWING S0-0-7.
  - 7.) <X> INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER.
  - 8.) [5-1/4"] INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH 6x6 - W2 1xW2 1 WWR.
  - 9.) [1 1/2"] INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE TYPE B, GALVANIZED STEEL ROOF DECK.
  - 10.) [3"] INDICATES SPAN DIRECTION OF 3" DEEP, 18/20 GAGE TYPE NCAS, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.
  - 11.) [6"] INDICATES SPAN DIRECTION OF 3" DEEP, 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0-8.
  - 12.) FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8.
  - 13.) [6"] HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP, 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 4" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH 6x6 - W2 1xW2 1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-7 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5' LONG HEADED STUDS.
  - 14.) [6 1/2" NCA] HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP, 18/20 GAGE TYPE NCA, GALVANIZED CELLULAR ACOUSTIC STEEL DECK WITH 3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6 1/2". REINFORCE WITH 6x6 - W2 1xW2 1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-8 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5' LONG HEADED STUDS.
  - 15.) [X] INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8. FOR DECKING SUPPORT, REFER TO DETAIL 4 ON DRAWING S0-0-6. REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
  - 16.) CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.
  - 17.) [WF] INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 8 ON DRAWING S0-0-8.
  - 18.) [OR] INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF SHEAR WALLS TO THE STRUCTURE.
  - 19.) [ ] INDICATES AN INSULATED STRUCTURAL, PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWING.
  - 20.) [1 1/2" BCA] INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 18/20 GAGE TYPE BCA, GALVANIZED CELLULAR ACOUSTICAL STEEL ROOF DECK.
  - 21.) [10' x 2"] PC PLANK INDICATES SPAN OF 10' DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK TO BE DESIGNED FOR MINIMUM OF 2-HOUR FIRE RATING.
  - 22.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
  - 23.) [WF] INDICATES A SPICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPICE CONNECTION FOR FULL CAPACITY OF STEEL BEAM.

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**NORTHEAST  
METRO TECH**

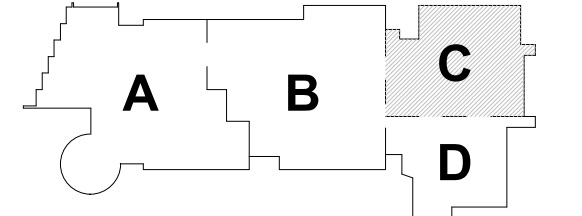
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MSBA 60% CD  
Submission

01/13/2023



**MEZZANINE  
FLOOR FRAMING  
PLAN - AREA C**

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: EDG  
Date: 01/13/2023

**S1-1-0MC**



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FRAMING NOTES:

- FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
- REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. FITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- BF-1 ETC... INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3 AND S4-0-4 FOR ADDITIONAL INFORMATION.
- [XX] INDICATES THE NUMBER OF 3/4" DIAMETER x 4 1/4" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.
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- INDICATES A 5/16" FILLET WELD ALL AROUND. (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO TYPICAL DETAIL 2 ON DRAWING S0-0-7.
- < X' > INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER.
- 5'-14" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH 6x6 - W2.1XW2.1 WWR.
- 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE TYPE B, GALVANIZED STEEL ROOF DECK.
- 3" NCAS INDICATES SPAN DIRECTION OF 3" DEEP, 1820 GAGE TYPE NCAS, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.
- 6" INDICATES SPAN DIRECTION OF 3" DEEP, 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0-8.
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- INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8 ON DRAWING S0-0-4 AND DETAIL 1 ON DRAWING S0-0-8 FOR DECKING SUPPORT. REFER TO DETAIL 4 ON DRAWING S0-0-5, REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
- CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.
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- FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- WF INDICATES A SPLICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPLICE CONNECTION FOR FULL CAPACITY OF STEEL BEAM.

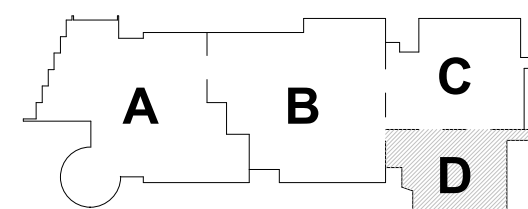
FRAMING ELEVATION NOTES:

- TYPICAL TOP-OF-CONCRETE ELEVATION = (89' - 8") AT THE MEZZANINE FLOOR LEVEL, IN THE AREA BOUNDED BY GRID (CC) - (EE) AND (TT) - (23).
- COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

SPRAY FIREPROOFING NOTES:  
STEEL COLUMN SHOWN ON THIS DRAWING TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING, CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

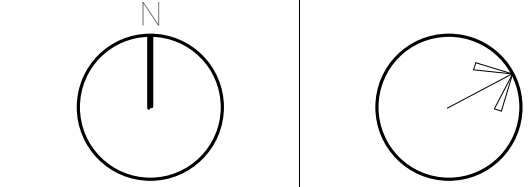
BRACE FRAME KEY

- 0' TYP. WF BF-X INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL.
- 0' TYP. BF-X WF INDICATES A BRACE FRAME ABOVE LEVEL.
- 0' TYP. WF BF-X INDICATES A BRACE FRAME BELOW LEVEL.



KEY PLAN

PROJECT NORTH  
MAGNETIC NORTH



MEZZANINE  
FLOOR FRAMING  
PLAN - AREA D

Scale: 1/8" = 1'-0"

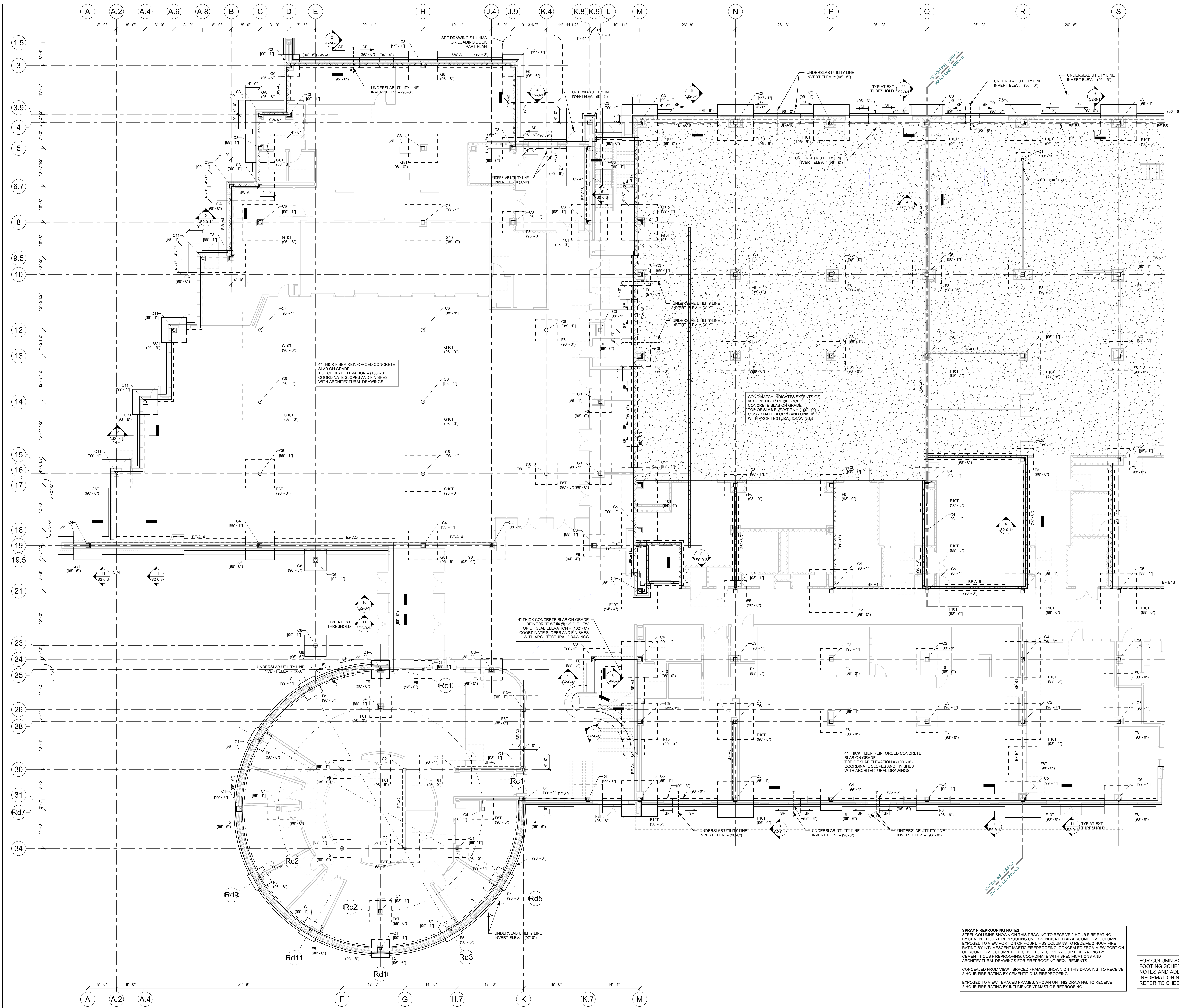
Job No.: 20202

Drawn By: EDG

Date: 01/13/2023

S1-1-0MD





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Submission

01/13/2023

KEY PLAN

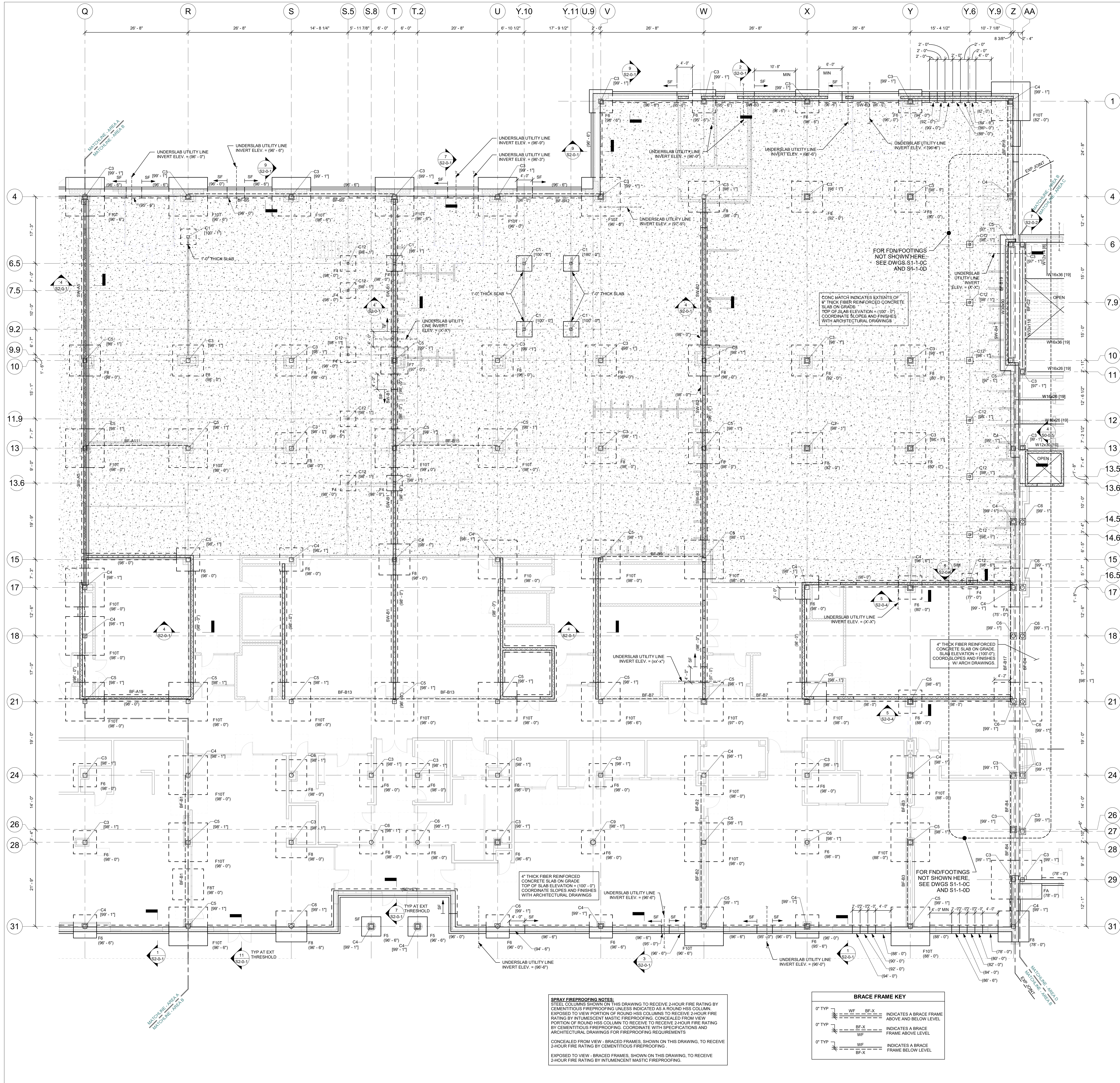
PROJECT NORTH  
MAGNETIC NORTH

FIRST FLOOR  
FOUNDATION  
PLAN - AREA A

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: EDG  
Date: 01/13/2023

S1-1-1A





- FOUNDATION NOTES:**
- 1.) REFER TO GRADING DRAWINGS FOR PLAN AND GRADE ELEVATIONS. THE STRUCTURAL DRAWINGS USES A DATUM OF 100'-0" AT THE FIRST FLOOR LEVEL, EQUAL TO (163.50) ON THE SITE GRADING PLANS.
  - 2.) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
  - 3.) F3 ETC., INDICATES A FOOTING TYPE. FOR SIZE OF FOOTING AND REINFORCEMENT SEE SCHEDULE ON THIS DRAWING.
  - 4.) TOP OF FOOTING ELEVATION TO BE 9'-6" MINIMUM BELOW LOWEST ADJACENT FINISHED GRADE AT EXTERIOR CONDITIONS AND 2'-0" BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS. ALL OTHER TOP OF FOOTING ELEVATIONS ARE DENOTED AS THUS (X'-Y") COMPUTED FROM A DATUM ELEVATION OF 100'-0" ON PLANS. CONTRACTOR TO COORDINATE AND VERIFY ALL TOP OF FOOTING ELEVATIONS WITH UNDERGROUND PLUMBING SUB-CONTRACTORS FIELD LAYOUT.
  - 5.) ALL FOOTING ELEVATIONS NOTED ON PLAN ARE SHOWN ONLY TO ASSIST IN COORDINATION. ALL FOOTING ELEVATIONS MUST BE COORDINATED WITH STRUCTURAL REQUIREMENTS, TYPICAL DETAILS, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
  - 6.) ALL FOOTINGS TO BE CENTERED UNDER COLUMNS UNLESS NOTED OTHERWISE.
  - 7.) SF INDICATES A STEPPED FOOTING REFER TO DETAIL ON DRAWING S0-0-2.
  - 8.) C1 ETC., INDICATES A COLUMN TYPE. FOR SIZE OF COLUMNS AND BASE PLATES SEE SCHEDULE ON THIS DRAWING.
  - 9.) BOTTOM OF BASE PLATE ELEVATION TO BE 1'-11" MINIMUM BELOW TOP OF CONCRETE SLAB AT EXTERIOR CONDITIONS, AND 0'-11" BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS. UNLESS NOTED OTHERWISE AS (XX'-XX") REFER TO ARCHITECTURAL DRAWINGS FOR BRICK SHELF ELEVATIONS.
  - 10.) FOR UNDER SLAB DRAINAGE AND WALL DRAINS, COORDINATE WITH ARCHITECTURAL, STRUCTURAL, CIVIL, AND PLUMBING DRAWINGS.
  - 11.) INDICATES A DEPRESSED SLAB ON GRADE. REFER TO DETAILS 6 AND 7 ON DRAWING S0-0-2 COORDINATE ALL SLAB DEPRESSIONS WITH REQUIREMENTS ON ARCHITECTURAL DRAWINGS.
  - 12.) FOR TYPICAL EXTERIOR DOOR DETAIL REFER TO DETAIL 6 ON DRAWING S0-0-3 AND RELEVANT SECTIONS.
  - 13.) BF-1 ETC., INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS 5 ON DRAWINGS S4-0-1, S4-0-2, S4-0-3 AND S4-0-4 FOR ADDITIONAL INFORMATION.
  - 14.) INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-4 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL. FOR NON-STRUCTURAL WALLS REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF SHEAR WALLS TO THE STRUCTURE.
  - 15.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
  - 16.) INDICATES CONCRETE PIER REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-2.
  - 17.) INDICATES UNDERGROUND UTILITY LINES PLUMBING THROUGH CONCRETE FOUNDATION WALL TYPICAL. COORDINATE FOOTING ELEVATIONS WITH PLUMBING. COORDINATE WITH ARCHITECTURAL DETAILS.
  - 18.) INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWINGS.
  - 19.) CONCRETE PIER REINFORCING PER DETAIL 5 ON DRAWING S0-0-2 IS TO BE PROVIDED FOR ALL CONCRETE WALLS SUPPORTING COLUMNS. HORIZONTAL WALL REINFORCING MUST REMAIN CONTINUOUS.

COLUMN SCHEDULE *		
MARK	SIZE	BASE PLATE SIZE
C1	HSS8x6x3/8	1' x 16' x 1'-4"
C2	HSS8x8x1/2	1' x 16' x 1'-4"
C3	HSS12x12x3/8	1' x 20' x 1'-8"
C4	HSS12x12x1/2	1' x 20' x 1'-8"
C5	HSS12x12x5/8	1' x 20' x 1'-8"
C6	HSS12.75x6.500	1' x 20' x 1'-8"
C7	HSS20x12x1/2	1 1/2' x 20' x 2'-4"
C8	HSS14x3/8	1' x 16' x 1'-0"
C9	HSS16x6.500	1 1/2' x 24' x 2'-0"
C10	HSS12x6x1/2	1 1/2' x 20' x 1'-2"
C11	HSS10x6.500	1' x 16' x 1'-6"
C12	HSS6x6x3/8	1' x 14' x 1'-2"

\* BASE PLATE LENGTH AND WIDTH SPECIFIED IN SCHEDULE IS THE MINIMUM SIZE FOR A COLUMN THAT IS PART OF A BRACED FRAME. SEE FOUNDATION NOTE ABOVE AND REFER TO DETAILS ON DRAWING S4-0-2 FOR ADDITIONAL INFORMATION.

\* PROVIDE 4 - 1" DIA F1554-S551 ANCHOR RODS TYPICALLY. REFER TO DETAILS ON DRAWING S4-0-3 FOR ADDITIONAL ANCHOR RODS FOR COLUMN RECEIVING BRACING.

FOOTING SCHEDULE F SERIES		
MARK	SIZE	REINFORCEMENT
F4	4'-0" x 4'-0" x 2'-0"	6 - #5 BOT EA WAY
F5	5'-0" x 5'-0" x 2'-0"	7 - #5 BOT EA WAY
F6	6'-0" x 6'-0" x 2'-6"	8 - #6 BOT EA WAY
F7	7'-0" x 7'-0" x 2'-6"	9 - #6 BOT EA WAY
F8	8'-0" x 8'-0" x 3'-0"	10 - #6 BOT EA WAY
F9	9'-0" x 9'-0" x 3'-0"	11 - #9 BOT EA WAY
F10	10'-0" x 10'-0" x 3'-6"	12 - #9 BOT EA WAY
F11	11'-0" x 11'-0" x 3'-6"	13 - #10 BOT EA WAY
F12	12'-0" x 12'-0" x 4'-0"	14 - #10 BOT EA WAY
FA	SEE PLAN x 2'-0"	#8 @ 12" OC TOP AND BOT EA WAY

T INDICATES TOP REINFORCING TO MATCH BOTTOM REINFORCING

FOOTING SCHEDULE Q SERIES		
MARK	SIZE	REINFORCEMENT
G4	4'-0" x 4'-0" x 2'-0"	5 - #5 BOT EA WAY
G5	5'-0" x 5'-0" x 2'-0"	6 - #5 BOT EA WAY
G6	6'-0" x 6'-0" x 2'-0"	7 - #6 BOT EA WAY
G7	7'-0" x 7'-0" x 2'-0"	8 - #6 BOT EA WAY
G8	8'-0" x 8'-0" x 2'-0"	9 - #6 BOT EA WAY
G9	9'-0" x 9'-0" x 2'-6"	10 - #7 BOT EA WAY
G10	10'-0" x 10'-0" x 2'-6"	11 - #7 BOT EA WAY
G11	11'-0" x 11'-0" x 2'-6"	12 - #8 BOT EA WAY
G12	12'-0" x 12'-0" x 3'-0"	13 - #8 BOT EA WAY
G13	13'-0" x 13'-0" x 3'-0"	14 - #9 BOT EA WAY
G14	14'-0" x 14'-0" x 3'-0"	15 - #9 BOT EA WAY
G15	15'-0" x 15'-0" x 3'-0"	16 - #9 BOT EA WAY
GA	SEE PLAN x 2'-0"	#8 @ 12" OC TOP AND BOT EA WAY

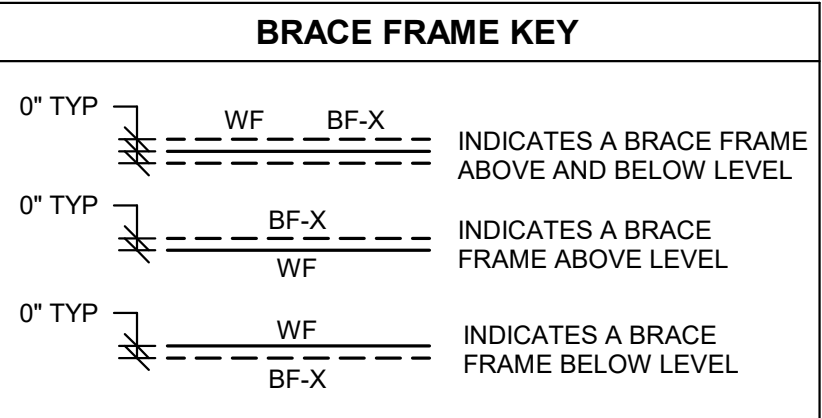
T INDICATES TOP REINFORCING TO MATCH BOTTOM REINFORCING

**SPRAY FIREPROOFING NOTES:**

STEEL COLUMNS SHOWN ON THIS DRAWING TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

CONCEALED FROM VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING.

EXPOSED TO VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.



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Submission

01/13/2023

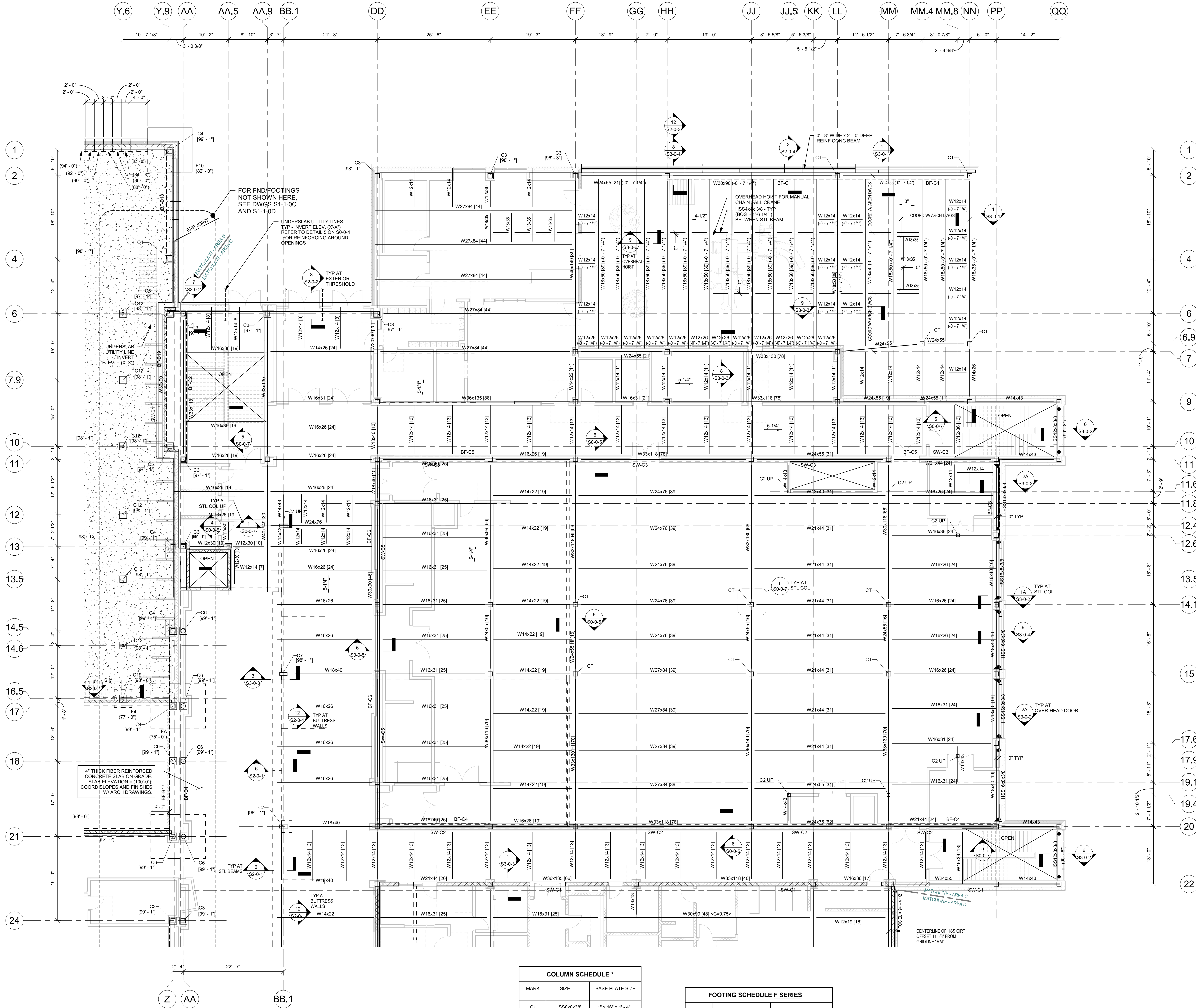
KEY PLAN  
PROJECT NORTH  
MAGNETIC NORTH

FIRST FLOOR  
FOUNDATION  
PLAN - AREA B

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: EDG  
Date: 01/13/2023

S1-1-1B





- FRAMING ELEVATION NOTES:**
- 1.) TYPICAL UNDERSIDE-OF-DECK ELEVATION = (89' - 6 3/4") AT THE FIRST FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (Y) - (MM) AND (2) - (17), UNLESS NOTED OTHERWISE AS (X) - (X), (+X) - (X), OR HILO.
  - 2.) TYPICAL UNDERSIDE-OF-DECK ELEVATION = (88' - 5 3/4") AT THE FIRST FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (FF) - (JJ) AND (2) - (58), UNLESS NOTED OTHERWISE AS (X) - (X), (+X) - (X), OR HILO.
  - 3.) TYPICAL UNDERSIDE-OF-DECK ELEVATION = (88' - 5 3/4") AT THE FIRST FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (JJ) - (LL) AND (2) - (64), UNLESS NOTED OTHERWISE AS (X) - (X), (+X) - (X), OR HILO.
  - 4.) FRAMING ELEVATIONS ARE BASED ON TOP-OF-FLOOR ELEVATION, (100' - 0"). SHOWN ON THE ARCHITECTURAL DRAWINGS.
  - 5.) COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
  - 6.) SLOPE PLATE UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

COLUMN SCHEDULE *		
MARK	SIZE	BASE PLATE SIZE
C1	HSS8x8x3/8	1" x 16" x 1" - 4"
C2	HSS8x8x1/2	1" x 16" x 1" - 4"
C3	HSS12x12x3/8	1" x 20" x 1" - 8"
C4	HSS12x12x1/2	1" x 20" x 1" - 8"
C5	HSS12x12x5/8	1" x 20" x 1" - 8"
C6	HSS12.75x0.500	1" x 20" x 1" - 8"
C7	HSS20x12x1/2	1 1/2" x 20" x 2" - 4"
C8	HSS8x4x3/8	1" x 16" x 1" - 0"
C9	HSS16x0.500	1 1/2" x 24" x 2" - 0"
C10	HSS12x6x1/2	1 1/2" x 20" x 1" - 2"
C11	HSS10x0.500	1" x 16" x 1" - 6"
C12	HSS6x3/8	1" x 14" x 1" - 2"

\* BASE PLATE LENGTH AND WIDTH SPECIFIED IN SCHEDULE IS THE MINIMUM SIZE FOR A COLUMN THAT IS PART OF A BRACED FRAME. SEE FOUNDATION NOTE ABOVE AND REFER TO DETAILS ON DRAWING S4-0-2 FOR ADDITIONAL INFORMATION.

\* PROVIDE 4 - 1" DIA F1564-55S1 ANCHOR RODS TYPICALLY. REFER TO DETAILS ON DRAWING S4-0-3 FOR ADDITIONAL ANCHOR RODS FOR COLUMN RECEIVING BRACING.

FOOTING SCHEDULE F SERIES		
MARK	SIZE	REINFORCEMENT
F4	4' - 0" x 4' - 0" x 2' - 0"	6 - #5 BOT EA WAY
F5	5' - 0" x 5' - 0" x 2' - 0"	7 - #6 BOT EA WAY
F6	6' - 0" x 6' - 0" x 2' - 0"	8 - #6 BOT EA WAY
F7	7' - 0" x 7' - 0" x 2' - 0"	9 - #6 BOT EA WAY
F8	8' - 0" x 8' - 0" x 3' - 0"	10 - #8 BOT EA WAY
F9	9' - 0" x 9' - 0" x 3' - 0"	11 - #9 BOT EA WAY
F10	10' - 0" x 10' - 0" x 3' - 0"	12 - #9 BOT EA WAY
F11	11' - 0" x 11' - 0" x 3' - 0"	13 - #10 BOT EA WAY
F12	12' - 0" x 12' - 0" x 2' - 0"	14 - #10 BOT EA WAY
FA	SEE PLAN x 2' - 0"	#8 @ 12" OC TOP AND BOT EA WAY

T INDICATES TOP REINFORCING TO MATCH BOTTOM REINFORCING

**SPRAY FIREPROOFING NOTES:**

STEEL COLUMNS SHOWN ON THIS DRAWING TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN PORTION OF ROUND HSS COLUMN TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

CONCEALED FROM VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

EXPOSED TO VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING.

**BRACE FRAME KEY**

0" TYP WF BF-X INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL

0" TYP WF BF-X INDICATES A BRACE FRAME ABOVE LEVEL

0" TYP WF BF-X INDICATES A BRACE FRAME BELOW LEVEL

- FOUNDATION NOTES:**
- 1.) REFER TO GRADING DRAWINGS FOR PLAN AND GRADE ELEVATIONS. THE STRUCTURAL DRAWINGS USES A DATUM OF (100' - 0") AT THE FIRST FLOOR LEVEL, EQUAL TO (163.50') ON THE SITE GRADING PLANS.
  - 2.) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
  - 3.) F3 ETC. INDICATES A FOOTING TYPE, FOR SIZE OF FOOTING AND REINFORCEMENT SEE SCHEDULE ON THIS DRAWING.
  - 4.) TOP OF FOOTING ELEVATION TO BE 3' - 6" MINIMUM BELOW LOWEST ADJACENT FINISHED GRADE AT EXTERIOR CONDITIONS AND 2' - 0" BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS. ALL OTHER TOP OF FOOTING ELEVATIONS ARE DENOTED AS THUS (X) - (Y) COMPUTED FROM A DATUM ELEVATION OF (100' - 0") ON PLANS. CONTRACTOR TO COORDINATE AND VERIFY ALL TOP OF FOOTING ELEVATIONS WITH UNDERGROUND PLUMBING SUB-CONTRACTOR'S FIELD LAYOUT.
  - 5.) ALL FOOTING ELEVATIONS NOTED ON PLAN ARE SHOWN ONLY TO ASSIST IN COORDINATION. ALL FOOTING ELEVATIONS MUST BE COORDINATED WITH STRUCTURAL REQUIREMENTS, TYPICAL DETAILS, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
  - 6.) ALL FOOTINGS TO BE CENTERED UNDER COLUMNS UNLESS NOTED OTHERWISE.
  - 7.) SF INDICATES A STEPPED FOOTING REFER TO DETAIL 1 ON DRAWING S0-0-2.
  - 8.) C1 ETC. INDICATES A COLUMN TYPE, FOR SIZE OF COLUMNS AND BASE PLATES SEE SCHEDULE ON THIS DRAWING.
  - 9.) BOTTOM OF BASE PLATE ELEVATION TO BE 1' - 11" MINIMUM BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS, AND 0' - 11" BELOW TOP OF CONCRETE SLAB AT EXTERIOR CONDITIONS, UNLESS NOTED OTHERWISE AS (X) - (Y) REFER TO ARCHITECTURAL DRAWINGS FOR BRICK SHELF ELEVATIONS.
  - 10.) FOR UNDER SLAB DRAINAGE AND WALL DRAINS, COORDINATE WITH ARCHITECTURAL, STRUCTURAL, CIVIL, AND PLUMBING DRAWINGS.
  - 11.) INDICATES A DERESSED SLAB ON GRADE. REFER TO DETAILS 6 AND 7 ON DRAWING S0-0-2 COORDINATE ALL SLAB DEPRESSIONS WITH REQUIREMENTS ON ARCHITECTURAL DRAWINGS.
  - 12.) FOR TYPICAL EXTERIOR DOOR DETAIL REFER TO DETAIL 5 ON DRAWING S0-0-3 AND RELEVANT SECTIONS.
  - 13.) BF-1 ETC. INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3 AND S4-0-4 FOR ADDITIONAL INFORMATION.
  - 14.) INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF SHEAR WALLS TO THE STRUCTURE.
  - 15.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
  - 16.) INDICATES CONCRETE PIER REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-2.
  - 17.) INDICATES UNDERGROUND UTILITY LINES PLUMBING THROUGH CONCRETE FOUNDATION WALL TYPICAL. COORDINATE FOOTING ELEVATION WITH PIPE INVERTS AND TYPICAL STRUCTURAL DETAILS.
  - 18.) INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL COORDINATE WITH ARCHITECTURAL DRAWINGS.
  - 19.) CONCRETE PIER REINFORCING PER DETAIL 5 ON DRAWING S0-0-2 IS TO BE PROVIDED FOR ALL CONCRETE WALLS SUPPORTING COLUMNS. HORIZONTAL WALL REINFORCING MUST REMAIN CONTINUOUS.

- FRAMING NOTES:**
- 1.) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
  - 2.) REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. FIT ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
  - 3.) BF-1 ETC. INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3 AND S4-0-4 FOR ADDITIONAL INFORMATION.
  - 4.) [OX] INDICATES THE NUMBER OF 3/4" DIAMETER x 4 x 1/4" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.
  - 5.) INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 8 AND 9 ON DRAWING S0-0-5 AND DETAIL 3 ON DRAWING S0-0-7.
  - 6.) INDICATES A 5/16" FILLET WELD ALL AROUND (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO TYPICAL DETAIL 2 ON DRAWING S0-0-7.
  - 7.) < X' > INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER.
  - 8.) 5'-1/4" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5'-1/4". REINFORCE WITH 6x6 - W2 1xW2 1 WWR.
  - 9.) 1'-1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE TYPE B, GALVANIZED STEEL ROOF DECK.
  - 10.) 3" NCAS INDICATES SPAN DIRECTION OF 3" DEEP, 18/20 GAGE TYPE NCAS, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.
  - 11.) 0" INDICATES SPAN DIRECTION OF 3" DEEP, 16 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0-8.
  - 12.) FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8.
  - 13.) HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP, 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 4" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH 6x6 - W2 1xW2 1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-7 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5' LONG HEADED STUDS.
  - 14.) 6'-1/2" NCA HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP, 18/20 GAGE TYPE NCA, GALVANIZED CELLULAR ACOUSTIC STEEL DECK WITH 3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6 1/2". REINFORCE WITH 6x6 - W2 1xW2 1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-8 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5' LONG HEADED STUDS.
  - 15.) INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8 ON DRAWING S0-0-4 AND DETAIL 1 ON DRAWING S0-0-8. FOR DECKING SUPPORT, REFER TO DETAIL 4 ON DRAWING S0-0-5. REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
  - 16.) CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.
  - 17.) WF INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 8 ON DRAWING S0-0-8.
  - 18.) INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF SHEAR WALLS TO THE STRUCTURE.
  - 19.) INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL COORDINATE WITH ARCHITECTURAL DRAWING.
  - 20.) 1'-1/2" BCA INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 18/20 GAGE TYPE BCA, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.
  - 21.) 10' x 2" PC PLANK INDICATES SPAN OF 10' DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK TO BE DESIGNED FOR MINIMUM OF 2 HOUR FIRE RATING.
  - 22.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
  - 23.) WF INDICATES A SPICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPICE CONNECTION FOR FULL CAPACITY OF STEEL BEAM.

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MSBA 60% CD  
Submission

01/13/2023

**KEY PLAN**

PROJECT NORTH

MAGNETIC NORTH

**FIRST FLOOR FOUNDATION PLAN - AREA C**

Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: EDG

Date: 01/13/2023

**S1-1-1C**



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### FRAMING NOTES:

- FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0.1, S0-0.2, S0-0.3, S0-0.4, S0-0.5, S0-0.6, S0-0.7 AND S0-0.8.
- REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. PITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- BF-1 ETC., INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0.1, S4-0.2, S4-0.3 AND S4-0.4 FOR ADDITIONAL INFORMATION.
- [XX] INDICATES THE NUMBER OF 3/4" DIAMETER x 4 1/4" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.
- INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 8 AND 9 ON DRAWING S0-0.5 AND DETAIL 3 ON DRAWING S0-0.7.
- INDICATES A 5/16" FILLET WELD ALL AROUND. (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO TYPICAL DETAIL 2 ON DRAWING S0-0.7.
- < X > INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER.
- 5'-14" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH 6x6 - W2 1xW2.1 WWR.
- 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE TYPE 1, GALVANIZED STEEL ROOF DECK.
- 3" NCAS INDICATES SPAN DIRECTION OF 3" DEEP, 18/20 GAGE TYPE NCAS, GALVANIZED CELLULAR ACUSTIC STEEL ROOF DECK.
- 6" INDICATES SPAN DIRECTION OF 3" DEEP, 16 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0.4.
- FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENINGS IN STEEL BECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 8 ON DRAWING S0-0.6 AND DETAIL 1 ON DRAWING S0-0.5.
- HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP, 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH 6x6 - W2 1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0.7 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5' LONG HEADED STUDS.
- HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP, 18/20 GAGE TYPE NCA, GALVANIZED CELLULAR ACUSTIC STEEL DECK WITH 3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6 1/2". REINFORCE WITH 6x6 - W2 1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0.8 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5' LONG HEADED STUDS.
- INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8 ON DRAWING S0-0.4 AND DETAIL 1 ON DRAWING S0-0.5. FOR DRAINING SUPPORT, REFER TO DETAIL 4 ON DRAWING S0-0.5. REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
- CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.
- WF INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 8 ON DRAWING S0-0.5.
- OR OR OR INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0.4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0.4 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF SHEAR WALLS TO THE STRUCTURE.
- INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWING.
- 1 1/2" BCA INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 18/20 GAGE TYPE BCA, GALVANIZED CELLULAR ACUSTIC STEEL ROOF DECK.
- 10' x 2" PC PLANK INDICATES SPAN OF 10' DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK TO BE DESIGNED FOR MINIMUM OF 2 HOUR FIRE RATING.
- FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- WF INDICATES A SPLICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPLICE CONNECTION FOR FULL CAPACITY OF STEEL BEAM.

COLUMN SCHEDULE *		
MARK	SIZE	BASE PLATE SIZE
C1	HSS8x8x3/8	1' x 16' x 1' - 4"
C2	HSS8x8x1/2	1' x 16' x 1' - 4"
C3	HSS12x12x3/8	1' x 20' x 1' - 8"
C4	HSS12x12x1/2	1' x 20' x 1' - 8"
C5	HSS12x12x5/8	1' x 20' x 1' - 8"
C6	HSS12.75x500	1' x 20' x 1' - 8"
C7	HSS20x12x1/2	1 1/2' x 20' x 2' - 4"
C8	HSS8x4x3/8	1' x 16' x 1' - 0"
C9	HSS18x90.500	1 1/2' x 24' x 2' - 0"
C10	HSS12x6x1/2	1 1/2' x 20' x 1' - 2"
C11	HSS18x90.500	1' x 18' x 1' - 6"
C12	HSS6x6x3/8	1' x 14' x 1' - 2"

\* BASE PLATE LENGTH AND WIDTH SPECIFIED IN SCHEDULE IS THE MINIMUM SIZE FOR A COLUMN THAT IS PART OF A BRACED FRAME. SEE FOUNDATION NOTE ABOVE AND REFER TO DETAILS ON DRAWING S4-0.2 FOR ADDITIONAL INFORMATION.

\* PROVIDE 4 - 1" DIA F1554-5551 ANCHOR RODS TYPICALLY. REFER TO DETAILS ON DRAWING S4-0.3 FOR ADDITIONAL ANCHOR RODS FOR COLUMN RECEIVING BRACING.

### FOOTING SCHEDULE F SERIES

MARK	SIZE	REINFORCEMENT
F4	4' - 0" x 4' - 0" x 2' - 0"	6 - #5 BOT EA WAY
F5	5' - 0" x 5' - 0" x 2' - 0"	7 - #5 BOT EA WAY
F6	6' - 0" x 6' - 0" x 2' - 6"	8 - #5 BOT EA WAY
F7	7' - 0" x 7' - 0" x 2' - 6"	9 - #5 BOT EA WAY
F8	8' - 0" x 8' - 0" x 3' - 0"	10 - #5 BOT EA WAY
F9	9' - 0" x 9' - 0" x 3' - 0"	11 - #9 BOT EA WAY
F10	10' - 0" x 10' - 0" x 3' - 6"	12 - #9 BOT EA WAY
F11	11' - 0" x 11' - 0" x 3' - 6"	13 - #10 BOT EA WAY
F12	12' - 0" x 12' - 0" x 4' - 0"	14 - #10 BOT EA WAY
FA	SEE PLAN x 2' - 0"	#8 @ 12" OC TOP AND BOT EA WAY

T INDICATES TOP REINFORCING TO MATCH BOTTOM REINFORCING

### BRACE FRAME KEY

0" TYP	WF	BF-X	INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL
0" TYP	BF-X	WF	INDICATES A BRACE FRAME ABOVE LEVEL
0" TYP	WF	BF-X	INDICATES A BRACE FRAME BELOW LEVEL

**SPRAY FIREPROOFING NOTES:**  
STEEL COLUMNS SHOWN ON THIS DRAWING TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.  
Concealed from View - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING.  
Exposed to View - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING.

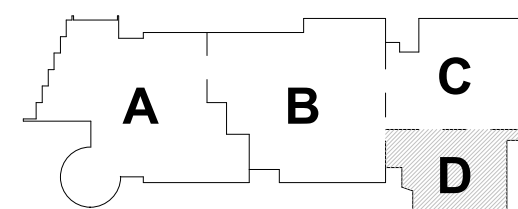
### FRAMING ELEVATION NOTES:

- TYPICAL UNDERSIDE OF DECK ELEVATION = (89' - 6 3/4") AT THE FIRST FLOOR LEVEL. IN THE AREA COVERED BY GRIDS (BB) - (MM) AND (19) - (25), UNLESS NOTED OTHERWISE AS (< X >), (< X' - X' >), OR HILLO.
- FRAMING ELEVATIONS ARE BASED ON TOP-OF-FLOOR ELEVATION, (100' - 0"), SHOWN ON THE ARCHITECTURAL DRAWINGS.
- COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

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MSBA 60% CD  
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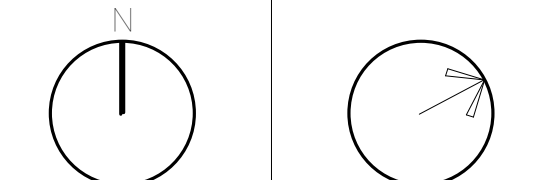
01/13/2023



KEY PLAN

PROJECT NORTH

MAGNETIC NORTH



## FIRST FLOOR FOUNDATION PLAN - AREA D

Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: EDG

Date: 01/13/2023

S1-1-1D



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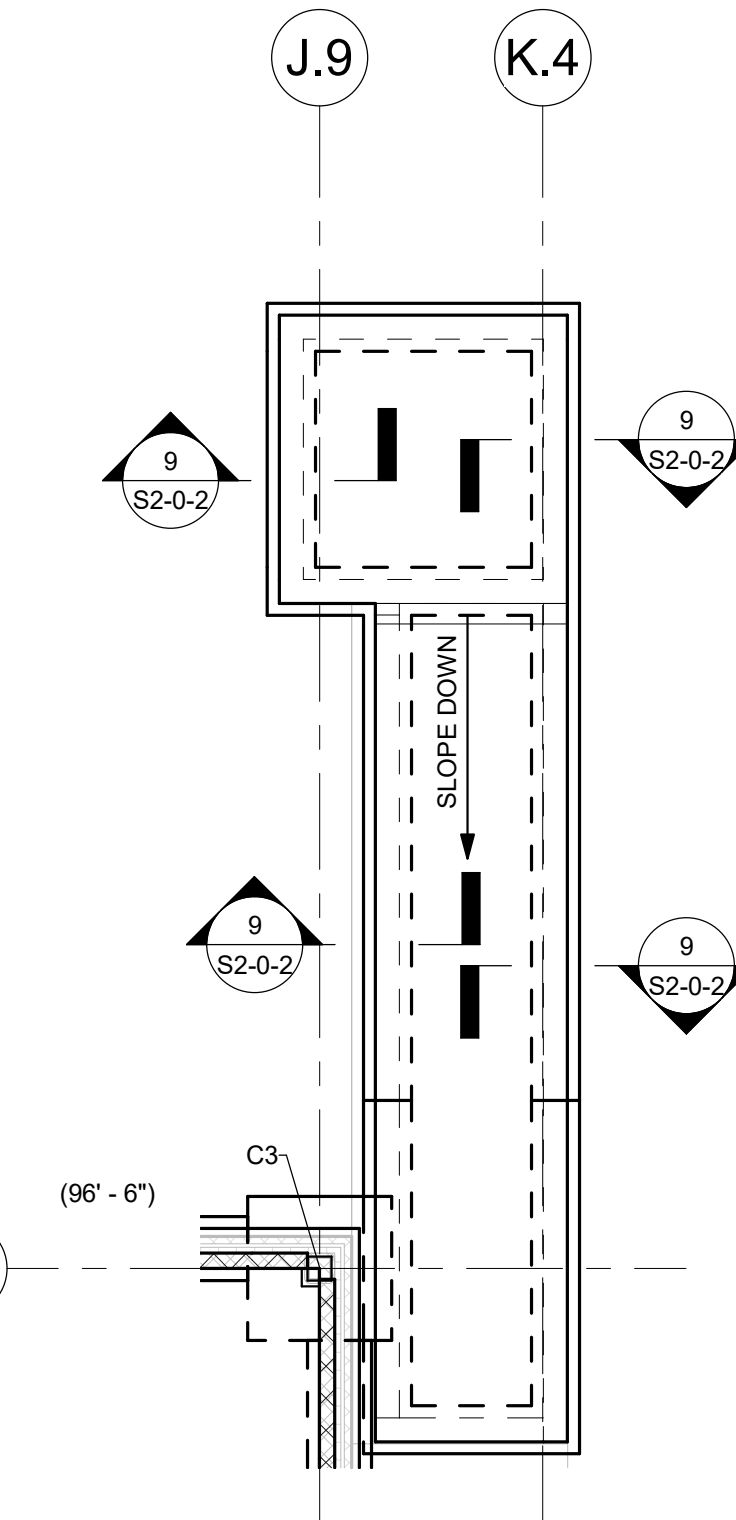
## NORTHEAST METRO TECH

100 Hemlock Rd,  
Wakefield, MA 01880

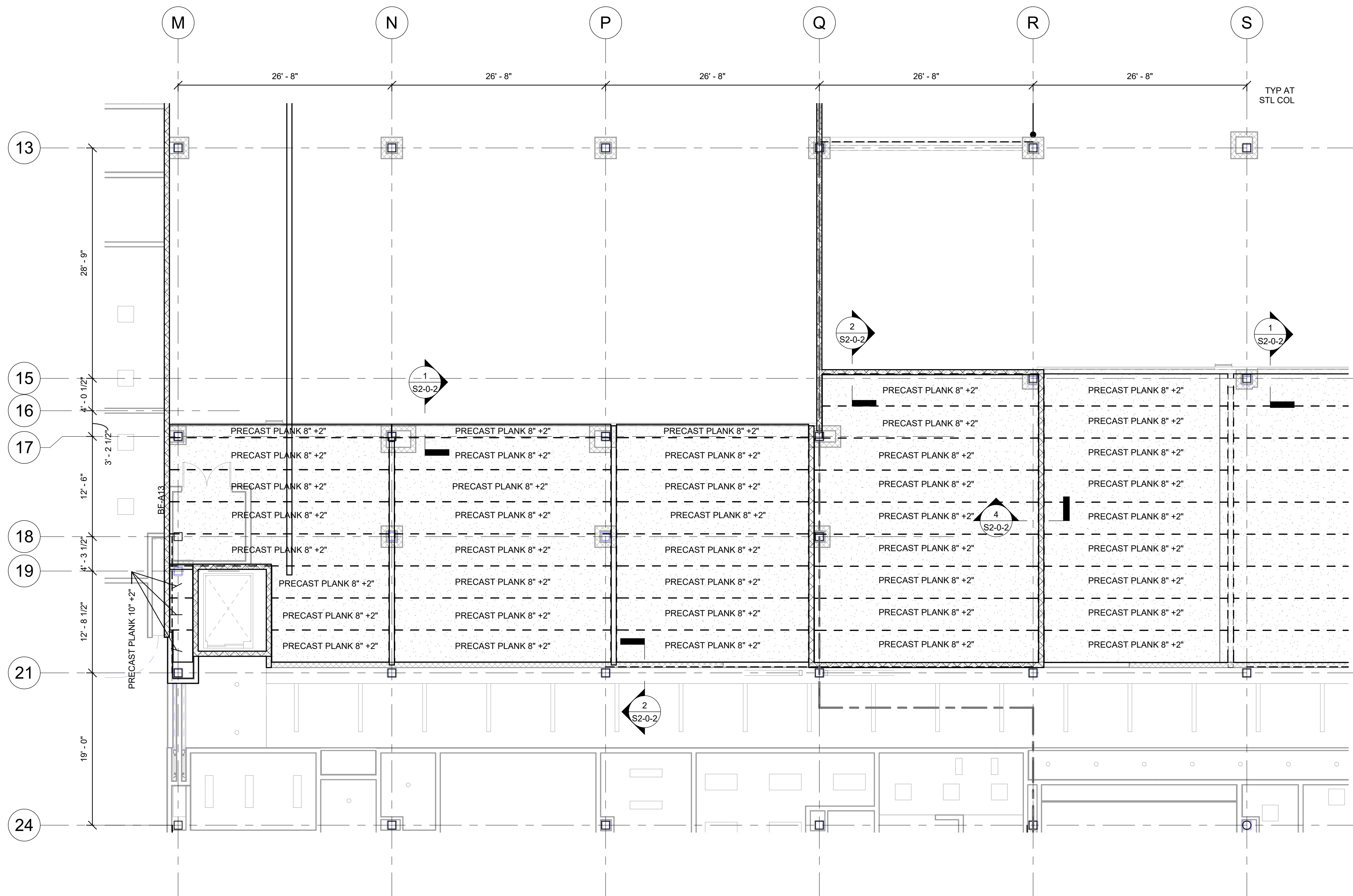
**EDG**  
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Structural Engineers  
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Malden, MA 02148  
(781)396-9007  
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### FRAMING NOTES:

- FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
- REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. FITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- 8" ETC. INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3 AND S4-0-4 FOR ADDITIONAL INFORMATION.
- [X] INDICATES THE NUMBER OF 3/4" DIAMETER x 4 1/4" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.
- [M] INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 8 AND 9 ON DRAWING S0-0-5 AND DETAIL 3 ON DRAWING S0-0-7.
- [●] INDICATES A 5/16" FILLET WELD ALL AROUND (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO TYPICAL DETAIL 2 ON DRAWING S0-0-7.
- < X' > INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER.
- [S-1/4"] INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 5 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH 6#6 - W2.1XW2.1 WWR.
- [1/2"] INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE TYPE B, GALVANIZED STEEL ROOF DECK.
- [3" NCAS] INDICATES SPAN DIRECTION OF 3" DEEP, 18/20 GAGE TYPE NCAS, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.
- [6"] INDICATES SPAN DIRECTION OF 3" DEEP, 16 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0-8.
- FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 8 ON DRAWING S0-0-8 AND DETAIL 1 ON DRAWING S0-0-6.
- [6"] HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP, 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 4" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH 6#6 - W2.1XW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-7 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5' LONG HEADED STUDS.
- [8 1/2" NCA] HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP, 18/20 GAGE TYPE NCA, GALVANIZED CELLULAR ACOUSTIC STEEL DECK WITH 3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 8 1/2". REINFORCE WITH 6#6 - W2.1XW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-8 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5' LONG HEADED STUDS.
- [⊙] INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8 ON DRAWING S0-0-8 AND DETAIL 1 ON DRAWING S0-0-8. FOR DECKING SUPPORT, REFER TO DETAIL 4 ON DRAWING S0-0-5. REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
- CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.
- [WF] INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 8 ON DRAWING S0-0-8.
- [CMU] OR [CONCRETE] INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-4 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF SHEAR WALLS TO THE STRUCTURE.
- [INSULATED] INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWING.
- [1/2" BCA] INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 18/20 GAGE TYPE BCA, GALVANIZED CELLULAR ACOUSTICAL STEEL ROOF DECK.
- [10' x 2"] PC PLANK INDICATES SPAN OF 10' DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK TO BE DESIGNED FOR MINIMUM OF 2 HOUR FIRE RATING.
- FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- [WF] INDICATES A SPLICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPLICE CONNECTION FOR FULL CAPACITY OF STEEL BEAM.



LOADING DOCK PART PLAN



### FRAMING ELEVATION NOTES:

- TYPICAL TOP-OF-CONCRETE ELEVATION = (102' - 8") AT THE MEZZANINE FLOOR LEVEL. IN THE AREA BOUNDED BY GRIDS (M) - (S) AND (11) - (16).
- COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

### SPRAY FIREPROOFING NOTES:

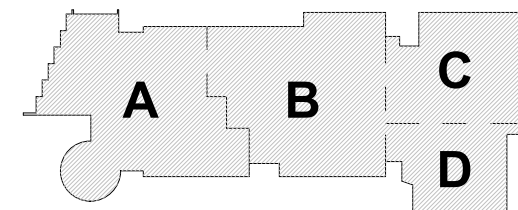
STEEL COLUMNS SHOWN ON THIS DRAWING TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

CONCEALED FROM VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

EXPOSED TO VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING.

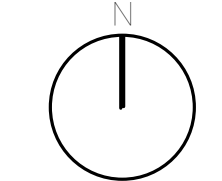
MSBA 60% CD  
Submission

01/13/2023

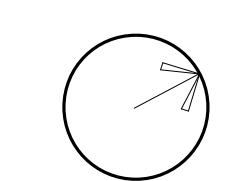


### KEY PLAN

PROJECT NORTH



MAGNETIC NORTH



## MEZZANINE FLOOR FRAMING - AREA A

Scale: 1/8" = 1'-0"

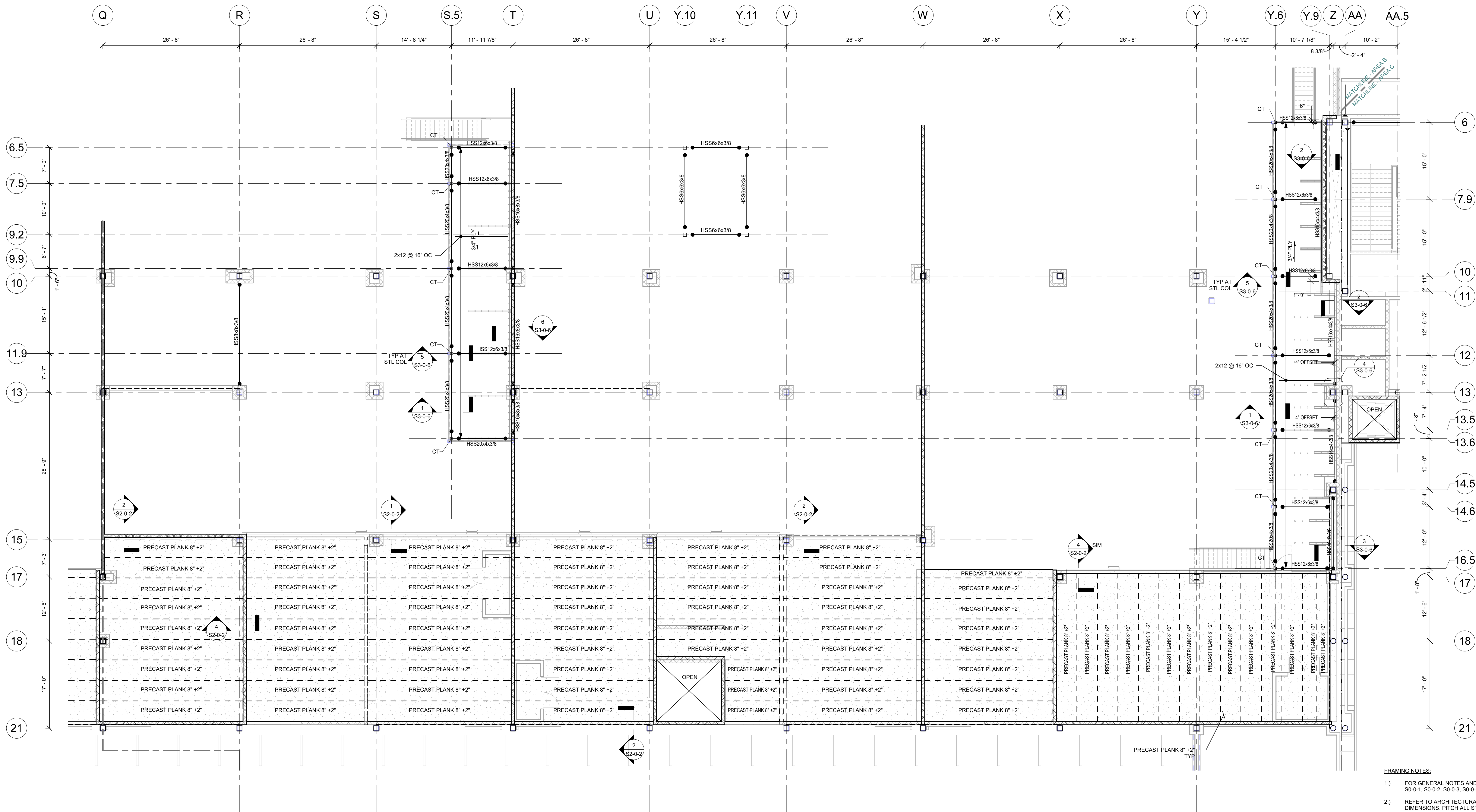
Job No.: 20202

Drawn By: EDG

Date: 01/13/2023

S1-1-1MA





**FRAMING ELEVATION NOTES:**

- 1) TYPICAL TOP-OF-CONCRETE ELEVATION = (108' - 8") AT THE MEZZANINE FLOOR LEVEL. IN THE AREA BOUNDED BY GRIDS (Q) - (Z) AND (11) - (18).
- 2) TYPICAL TOP-OF-STEEL ELEVATION = (108' - 8") AT THE MEZZANINE FLOOR LEVEL. IN THE AREA BOUNDED BY GRIDS (EDG 8.9) - (17) AND (5.2) - (EDG 5.13).
- 3) TYPICAL TOP-OF-STEEL ELEVATION = (108' - 8") AT THE MEZZANINE FLOOR LEVEL. IN THE AREA BOUNDED BY GRIDS (EDG Y.6) - (Z) AND (5.2) - (12).
- 4) COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

**SPRAY FIREPROOFING NOTES:**

STEEL COLUMNS SHOWN ON THIS DRAWING TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

CONCEALED FROM VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

EXPOSED TO VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING.

- FRAMING NOTES:**
- 1) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
  - 2) REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. RITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
  - 3) BF-1 ETC. INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3 AND S4-0-4 FOR ADDITIONAL INFORMATION.
  - 4) [XX] INDICATES THE NUMBER OF 3/4" DIAMETER x 4 1/4" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.
  - 5) INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 8 AND 9 ON DRAWING S0-0-5 AND DETAIL 3 ON DRAWING S0-0-7.
  - 6) INDICATES A 6/16" FILLET WELD ALL AROUND. (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO TYPICAL DETAIL 2 ON DRAWING S0-0-7.
  - 7) < X > INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER.
  - 8) 5'-14" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAUGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH 6#6 - W2 (W2-1) WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-8 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.
  - 9) 1'-12" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAUGE TYPE B, GALVANIZED STEEL ROOF DECK.
  - 10) 3" NCAS INDICATES SPAN DIRECTION OF 3" DEEP, 1820 GAUGE TYPE NCAS, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.
  - 11) 6" INDICATES SPAN DIRECTION OF 3" DEEP, 18 GAUGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0-8.
  - 12) FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION REFER TO DETAIL 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8.
  - 13) 6" HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP, 18 GAUGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH 6#6 - W2 (W2-1) WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-8 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.
  - 14) 6'-12" NCA HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP, 1820 GAUGE TYPE NCA, GALVANIZED CELLULAR ACOUSTIC STEEL DECK WITH 3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6'-12". REINFORCE WITH 6#6 - W2 (W2-1) WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-8 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.
  - 15) INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8 FOR DECKING SUPPORT. REFER TO DETAIL 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR OPENING SIZES AND LOCATIONS.
  - 16) CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.
  - 17) WF INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 8 ON DRAWING S0-0-8.
  - 18) INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF SHEAR WALLS TO THE STRUCTURE.
  - 19) INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWING.
  - 20) 1'-12" BCA INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 1820 GAUGE TYPE BCA, GALVANIZED CELLULAR ACOUSTICAL STEEL ROOF DECK.
  - 21) 10' x 2" PC PLANK INDICATES SPAN OF 10' DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 120 PSF. PRECAST CONCRETE PLANK TO BE DESIGNED FOR MINIMUM OF 2-HOUR FIRE RATING.
  - 22) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
  - 23) WF INDICATES A SPLICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPLICE CONNECTION FOR FULL CAPACITY OF STEEL BEAM.

**NORTHEAST  
METRO TECH**

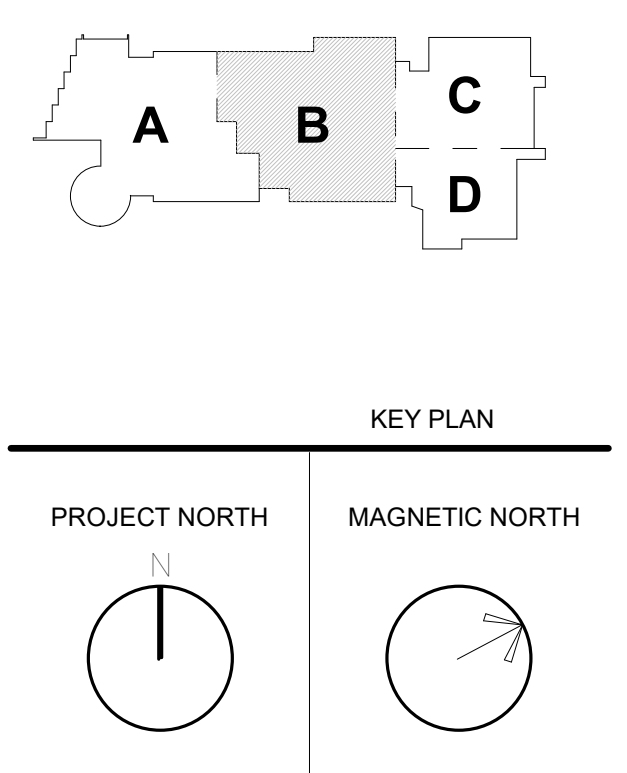
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Wakefield, MA 01880

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MSBA 60% CD  
Submission

01/13/2023

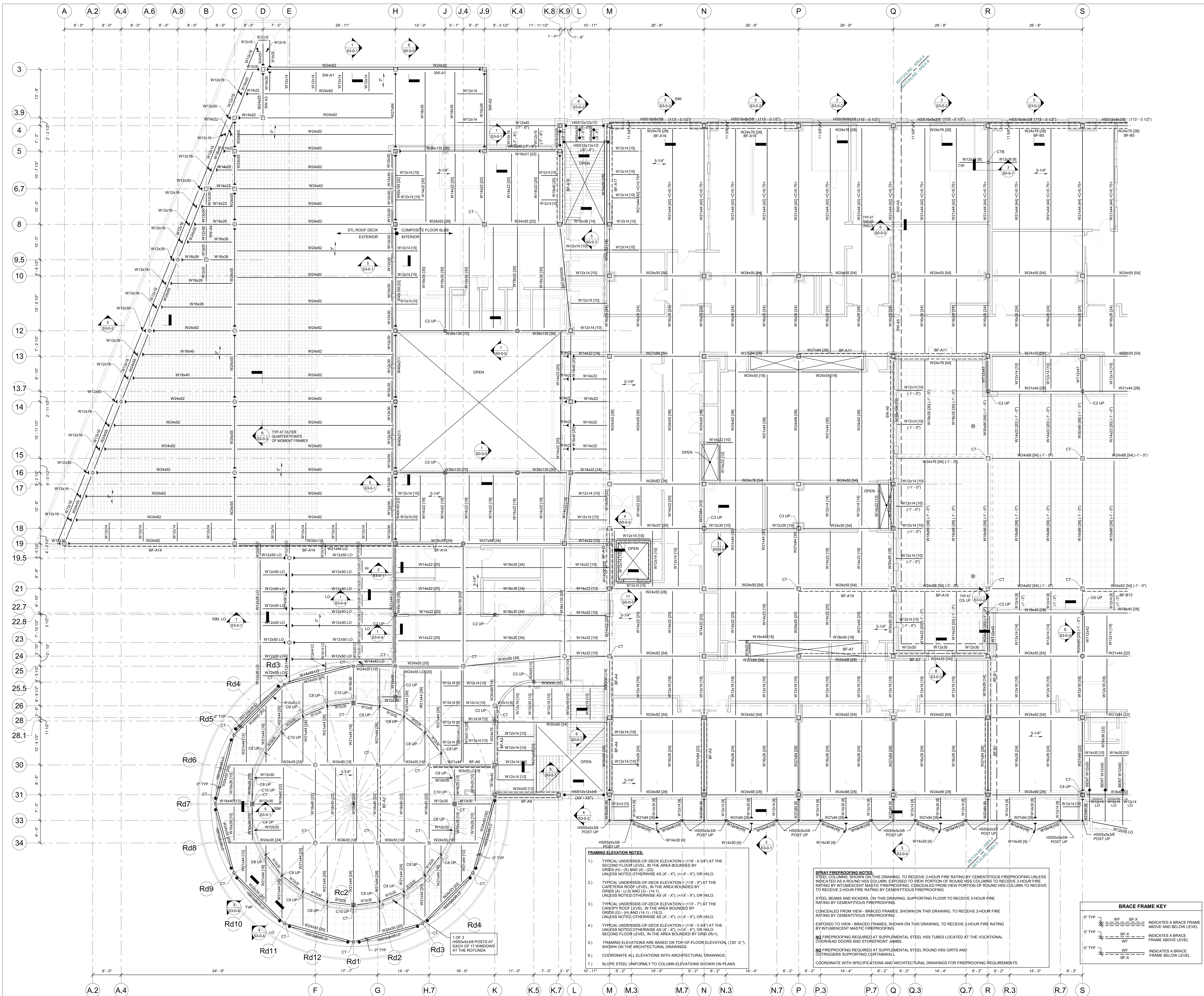


**MEZZANINE  
FLOOR  
FRAMING- AREA  
B**

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: EDG  
Date: 01/13/2023

**S1-1-1MB**





- FRAMING ELEVATION NOTES:**
1. TYPICAL UNDERSIDE-OF-DECK ELEVATION = (119' - 6 3/4") AT THE SECOND FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (H) - (S) AND (4) - (22). UNLESS NOTED OTHERWISE AS (X' - X'), (Y' - Y'), OR H/L.O.
  2. TYPICAL UNDERSIDE-OF-DECK ELEVATION = (119' - 0") AT THE CAFETERIA ROOF LEVEL, IN THE AREA BOUNDED BY GRIDS (A) - (U) AND (3) - (14). UNLESS NOTED OTHERWISE AS (X' - X'), (Y' - Y'), OR H/L.O.
  3. TYPICAL UNDERSIDE-OF-DECK ELEVATION = (119' - 7") AT THE CANOPY ROOF LEVEL, IN THE AREA BOUNDED BY GRIDS (S) - (V) AND (14) - (18.2). UNLESS NOTED OTHERWISE AS (X' - X'), (Y' - Y'), OR H/L.O.
  4. TYPICAL UNDERSIDE-OF-DECK ELEVATION = (119' - 0 3/4") AT THE SECOND FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (S) - (V) AND (14) - (18.2). UNLESS NOTED OTHERWISE AS (X' - X'), (Y' - Y'), OR H/L.O.
  5. FRAMING ELEVATIONS ARE BASED ON TOP-OF-FLOOR ELEVATION, (120' - 0"), SHOWN ON THE ARCHITECTURAL DRAWINGS.
  6. COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
  7. SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

**SPRAY FIREPROOFING NOTES:**

STEEL COLUMNS, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN, EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

STEEL BEAMS AND KICKERS, ON THIS DRAWING, SUPPORTING FLOOR TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

CONCEALED FROM VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

EXPOSED TO VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING.

NO FIREPROOFING REQUIRED AT SUPPLEMENTAL STEEL HSS TUBES LOCATED AT THE VOCATIONAL OVERHEAD DOORS AND STOREFRONT JAMBS.

NO FIREPROOFING REQUIRED AT SUPPLEMENTAL STEEL ROUND HSS GIRTS AND OUTRIGGERS SUPPORTING CURTAINWALL.

COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

BRACE FRAME KEY			
0" TYP	WF	BF-X	INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL
0" TYP	WF	BF-X	INDICATES A BRACE FRAME ABOVE LEVEL
0" TYP	WF	BF-X	INDICATES A BRACE FRAME BELOW LEVEL

DRA

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MSBA 60% CD  
Submission

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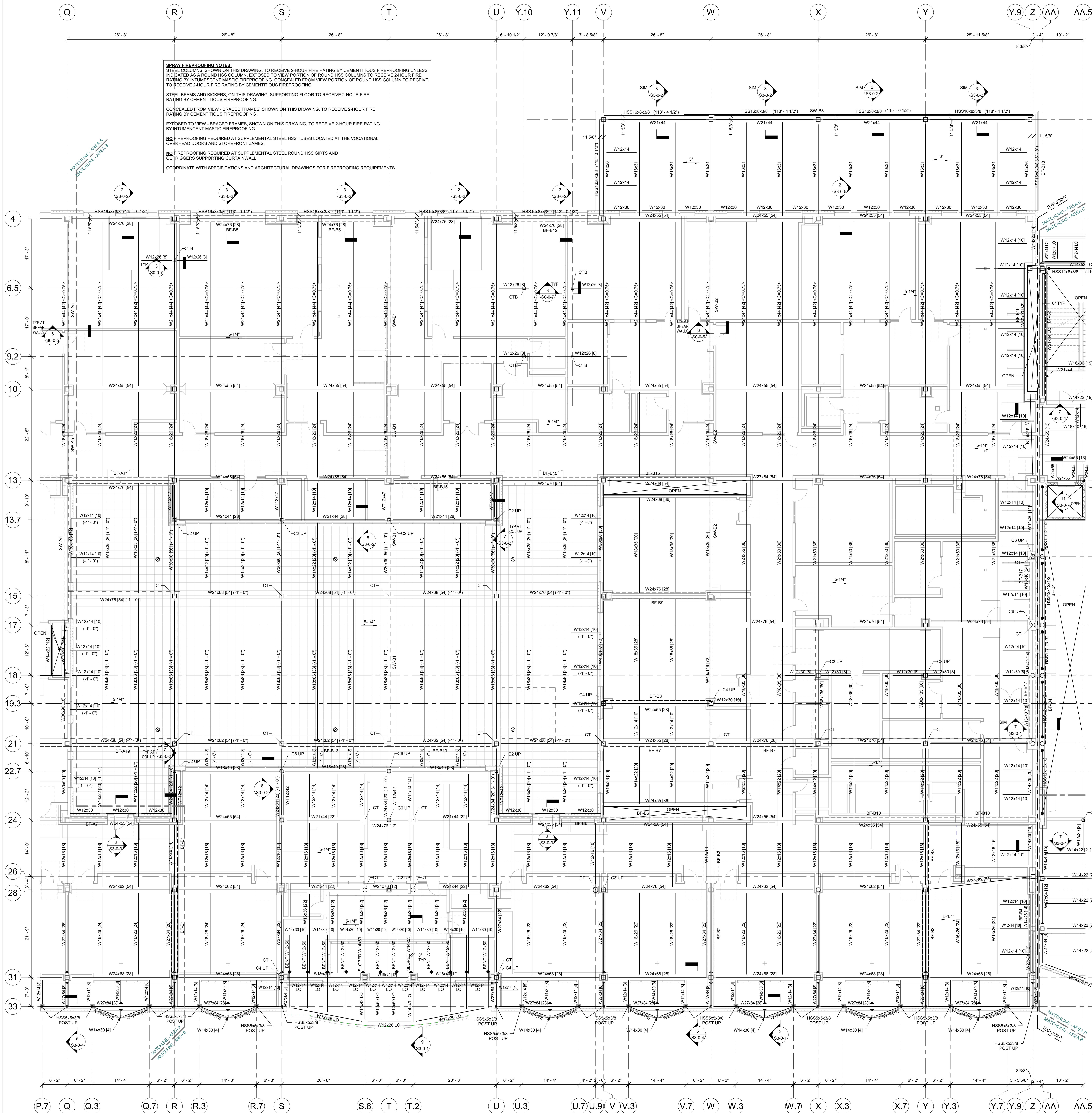
PROJECT NORTH  
MAGNETIC NORTH

SECOND FLOOR  
FRAMING PLAN -  
AREA A

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: EDG  
Date: 01/13/2023

S1-1-2A





- FRAMING NOTES:**
- FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0.1, S0-0.2, S0-0.3, S0-0.4, S0-0.5, S0-0.6, S0-0.7 AND S0-0.8.
  - REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. PITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
  - BF-1 ETC. INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0.1, S4-0.2, S4-0.3 AND S4-0.4 FOR ADDITIONAL INFORMATION.
  - [X] INDICATES THE NUMBER OF 3/4" DIAMETER 4 1/4" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.
  - INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAIL S3-0.1 AND S3-0.2 ON DRAWING S0-0.5 AND DETAIL 3 ON DRAWING S0-0.7.
  - INDICATES A 5/16" FILLET WELD ALL AROUND (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO TYPICAL DETAIL 2 ON DRAWING S0-0.7.
  - <X> INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER.
  - 5-1/4" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4" REINFORCE WITH 6#6 - W2.1W2.1 WWR.
  - 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE TYPE B GALVANIZED STEEL ROOF DECK.
  - 3" NCAS INDICATES SPAN DIRECTION OF 3" DEEP, 1820 GAGE TYPE NCAS, GALVANIZED CELLULAR ACUSTIC STEEL ROOF DECK.
  - 6" INDICATES SPAN DIRECTION OF 3" DEEP, 16 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6" SEE TYPICAL DETAIL 4 ON DRAWING S0-0.8.
  - FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 8 ON DRAWING S0-0.6 AND DETAIL 1 ON DRAWING S0-0.7.
  - 6" HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP, 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 4" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH 6#6 - W2.1W2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.07 FOR ADDITIONAL INFORMATION. USE 3/4" DIA X 5' LONG HEADED STUDS.
  - 6 1/2" HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP, 1820 GAGE TYPE NCAS, GALVANIZED CELLULAR ACUSTIC STEEL DECK WITH 3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6 1/2". REINFORCE WITH 6#6 - W2.1W2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.08 FOR ADDITIONAL INFORMATION. USE 3/4" DIA X 5' LONG HEADED STUDS.
  - INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8 ON DRAWING S0-0.4 AND DETAIL 1 ON DRAWING S0-0.8 FOR DECKING SUPPORT. REFER TO DETAIL 4 ON DRAWING S0-0.5. REFER TO PILING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
  - CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.
  - WE INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 9 ON DRAWING S0-0.8.
  - OR INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0.4 FOR REINFORCEMENT AND DETAIL 1 ON DRAWING S0-0.8 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF SHEAR WALLS TO THE STRUCTURE.
  - INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWING.
  - 1 1/2" BCA INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 1820 GAGE TYPE BCA, GALVANIZED CELLULAR ACUSTIC STEEL ROOF DECK.
  - 10' X 2" PC PLANK INDICATES SPAN OF 10' DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK TO BE DESIGNED FOR MINIMUM OF 2 HOUR FIRE RATINGS.
  - FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
  - WF INDICATES A SPLICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPLICE CONNECTION FOR FULL CAPACITY OF STEEL BEAM.

- FRAMING ELEVATION NOTES:**
- TYPICAL UNDERSIDE OF DECK ELEVATION = (11'9" - 6 3/4") AT THE SECOND FLOOR LEVEL. IN THE AREA BOUNDED BY GRIDS (H) - (S) AND (U) - (Z). OR HILO. UNLESS NOTED OTHERWISE AS (X' - X'), ((X' - X') - X'), OR HILO.
  - TYPICAL UNDERSIDE OF DECK ELEVATION = (11'9" - 6 3/4") AT THE LOW ROOF LEVEL. IN THE AREA BOUNDED BY GRIDS (V) - (Z) AND (U) - (Z). OR HILO. UNLESS NOTED OTHERWISE AS (X' - X'), ((X' - X') - X'), OR HILO.
  - TYPICAL UNDERSIDE OF DECK ELEVATION = (11'9" - 6") AT THE CANOPY ROOF LEVEL. IN THE AREA BOUNDED BY GRIDS (V) - (Z) AND (U) - (Z). OR HILO. UNLESS NOTED OTHERWISE AS (X' - X'), ((X' - X') - X'), OR HILO.
  - FRAMING ELEVATIONS ARE BASED ON TOP-OF-FLOOR ELEVATION, (120' - 0"), SHOWN ON THE ARCHITECTURAL DRAWINGS.
  - COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
  - SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

**BRACE FRAME KEY**

0" TYP	WF	BF-X	INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL
0" TYP	BF-X	WF	INDICATES A BRACE FRAME ABOVE LEVEL
0" TYP	BF-X	BF-X	INDICATES A BRACE FRAME BELOW LEVEL

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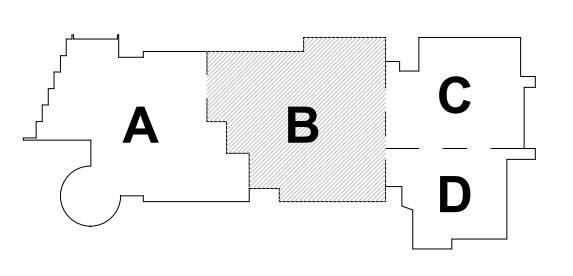
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MSBA 60% CD  
Submission

01/13/2023



PROJECT NORTH  
MAGNETIC NORTH

**SECOND FLOOR  
FRAMING PLAN -  
AREA B**

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: EDG  
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**S1-1-2B**



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#### FRAMING NOTES:

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- REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. PITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- BF-1 ETC. INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0.1, S4-0.2, S4-0.3 AND S4-0.4 FOR ADDITIONAL INFORMATION.
- [X] INDICATES THE NUMBER OF 3/4" DIAMETER x 4 1/4" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.
- INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 8 AND 9 ON DRAWING S0-0.5 AND DETAIL 3 ON DRAWING S0-0.7.
- INDICATES A 5/16" FILLET WELD ALL AROUND. (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO TYPICAL DETAIL 2 ON DRAWING S0-0.7.
- < X > INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER.
- 5-1/4" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH 6#5 - W2, 1W2, 1 WWR.
- 1-1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE TYPE B, GALVANIZED STEEL ROOF DECK.
- 3" INDICATES SPAN DIRECTION OF 3" DEEP, 1820 GAGE TYPE NCA, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.
- 6" INDICATES SPAN DIRECTION OF 3" DEEP, 16 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 1" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0.8.
- FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 8 ON DRAWING S0-0.6 AND DETAIL 1 ON DRAWING S0-0.8.
- HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP, 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 4" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH 6#5 - W2, 1W2, 1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0.7 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5' LONG HEADED STUDS.
- 6-1/2" INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP, 1820 GAGE TYPE NCA, GALVANIZED CELLULAR ACOUSTIC STEEL DECK WITH 3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6 1/2". REINFORCE WITH 6#5 - W2, 1W2, 1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0.8 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5' LONG HEADED STUDS.
- INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8 ON DRAWING S0-0.6 AND DETAIL 1 ON DRAWING S0-0.8. FOR DECKING SUPPORT, REFER TO DETAIL 4 ON DRAWING S0-0.6. REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
- CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.
- WF INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 8 ON DRAWING S0-0.8.
- INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0.4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0.6 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF SHEAR WALLS TO THE STRUCTURE.
- INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWING.
- 1 1/2" BCA INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 1820 GAGE TYPE BCA, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.
- 10' x 2" PC PLANK INDICATES SPAN OF 10' DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK TO BE DESIGNED FOR MINIMUM OF 2 HOUR FIRE RATING.
- FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- WF INDICATES A SPLICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPLICE CONNECTION FOR FULL CAPACITY OF STEEL BEAM.

#### FRAMING ELEVATION NOTES:

- TYPICAL UNDERSIDE-OF-DECK ELEVATION = (118' - 6 3/4") AT THE SECOND FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (AA - (MM) AND (7.2) - (7.7), UNLESS NOTED OTHERWISE AS (X' - X'), (+X' - X'), OR HILO.
- TYPICAL UNDERSIDE-OF-DECK ELEVATION = (118' - 6 3/4") AT THE LOW ROOF LEVEL, IN THE AREA BOUNDED BY GRIDS (AA.9) - (NN) AND (7.1) - (7.2), UNLESS NOTED OTHERWISE AS (X' - X'), (+X' - X'), OR HILO.
- FRAMING ELEVATIONS ARE BASED ON TOP-OF-FLOOR ELEVATION, (120' - 0"), SHOWN ON THE ARCHITECTURAL DRAWINGS.
- COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

#### SPRAY FIREPROOFING NOTES:

STEEL COLUMNS, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

STEEL BEAMS AND KICKERS, ON THIS DRAWING, SUPPORTING FLOOR TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

CONCEALED FROM VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

EXPOSED TO VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING.

NO FIREPROOFING REQUIRED AT SUPPLEMENTAL STEEL HSS TUBES LOCATED AT THE VOCATIONAL OVERHEAD DOORS AND STOREFRONT JAMBS.

NO FIREPROOFING REQUIRED AT SUPPLEMENTAL STEEL ROUND HSS GIRTS AND OUTRIGGERS SUPPORTING CURTAINWALL.

COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

#### BRACE FRAME KEY

- 0" TYP. INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL.
- 0" TYP. INDICATES A BRACE FRAME ABOVE LEVEL.
- 0" TYP. INDICATES A BRACE FRAME BELOW LEVEL.

KEY PLAN

PROJECT NORTH

MAGNETIC NORTH

SECOND FLOOR  
FRAMING PLAN -  
AREA C

Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: EDG

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S1-1-2C



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### FRAMING NOTES:

- FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
- REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. PITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- BF-1 ETC. INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3 AND S4-0-4 FOR ADDITIONAL INFORMATION.
- [XX] INDICATES THE NUMBER OF 3/4" DIAMETER x 4 1/4" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.
- INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 8 AND 9 ON DRAWING S0-0-2 AND DETAIL 3 ON DRAWING S0-0-7.
- INDICATES A 5/16" FILLET WELD ALL AROUND (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO TYPICAL DETAIL 2 ON DRAWING S0-0-7.
- < X > INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER.
- 5-1/4" INDICATES SPAN DIRECTION OF 3" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH 6x6 - W2.1xW2.1 WWR.
- 1-1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE TYPE B, GALVANIZED STEEL ROOF DECK.
- 3" INDICATES SPAN DIRECTION OF 3" DEEP, 1820 GAGE TYPE BCA, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.
- 6" INDICATES SPAN DIRECTION OF 3" DEEP, 16 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0-8.
- FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR FRAMING INFORMATION. REFER TO DETAIL 1 AND 8 ON DRAWING S0-0-4 AND DETAIL 1 ON DRAWING S0-0-8.
- 6" HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP, 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 4" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH 6x6 - W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-7 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5' LONG HEADED STUDS.
- 6 1/2" HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP, 1820 GAGE TYPE BCA, GALVANIZED CELLULAR ACOUSTIC STEEL DECK WITH 3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6 1/2". REINFORCE WITH 6x6 - W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-8 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5' LONG HEADED STUDS.
- INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8 FOR DRAINING SUPPORT. REFER TO DETAIL 4 ON DRAWING S0-0-5, REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
- CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.
- WF INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 8 ON DRAWING S0-0-8.
- INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-4 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF SHEAR WALLS TO THE STRUCTURE.
- INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWING.
- 1-1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 1820 GAGE TYPE BCA, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.
- 10" + 2" PC PLANK INDICATES SPAN OF 10" DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK TO BE DESIGNED FOR MINIMUM OF 2 HOUR FIRE RATING.
- FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- WF INDICATES A SPICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPICE CONNECTION FOR FULL CAPACITY OF STEEL BEAM.

### FRAMING ELEVATION NOTES:

- TYPICAL UNDERSIDE-OF-DECK ELEVATION = (11' - 6 3/4") AT THE SECOND FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (AA) - (NN) AND (16) - (25), UNLESS NOTED OTHERWISE AS (X' - X'), (+X' - X'), OR HILO.
- TYPICAL UNDERSIDE-OF-DECK ELEVATION IS DEPRESSED BELOW (11' - 6 3/4") AT THE GYM FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (DD) - (KK) AND (17) - (24). ELEVATION IS TO BE DETERMINED BASED ON THICKNESS OF GYM FLOORING SYSTEM, UNLESS NOTED OTHERWISE AS (X' - X'), (+X' - X'), OR HILO.
- FRAMING ELEVATIONS ARE BASED ON TOP-OF-FLOOR ELEVATION, (12'0" - 0"), SHOWN ON THE ARCHITECTURAL DRAWINGS.
- COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

### SPRAY FIREPROOFING NOTES:

STEEL COLUMNS, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

STEEL BEAMS AND KICKERS, ON THIS DRAWING, SUPPORTING FLOOR TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

CONCEALED FROM VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING.

EXPOSED TO VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING.

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COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

### BRACE FRAME KEY

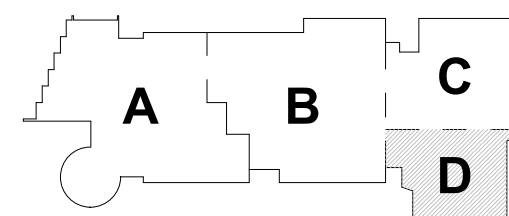
0" TYP  
WF  
BF-X  
INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL

0" TYP  
BF-X  
WF  
INDICATES A BRACE FRAME ABOVE LEVEL

0" TYP  
WF  
BF-X  
INDICATES A BRACE FRAME BELOW LEVEL

MSBA 60% CD  
Submission

01/13/2023

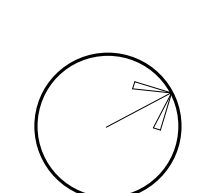


### KEY PLAN

PROJECT NORTH



MAGNETIC NORTH



## SECOND FLOOR FRAMING PLAN - AREA D

Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: EDG

Date: 01/13/2023

S1-1-2D



**FRAMING ELEMENTS**

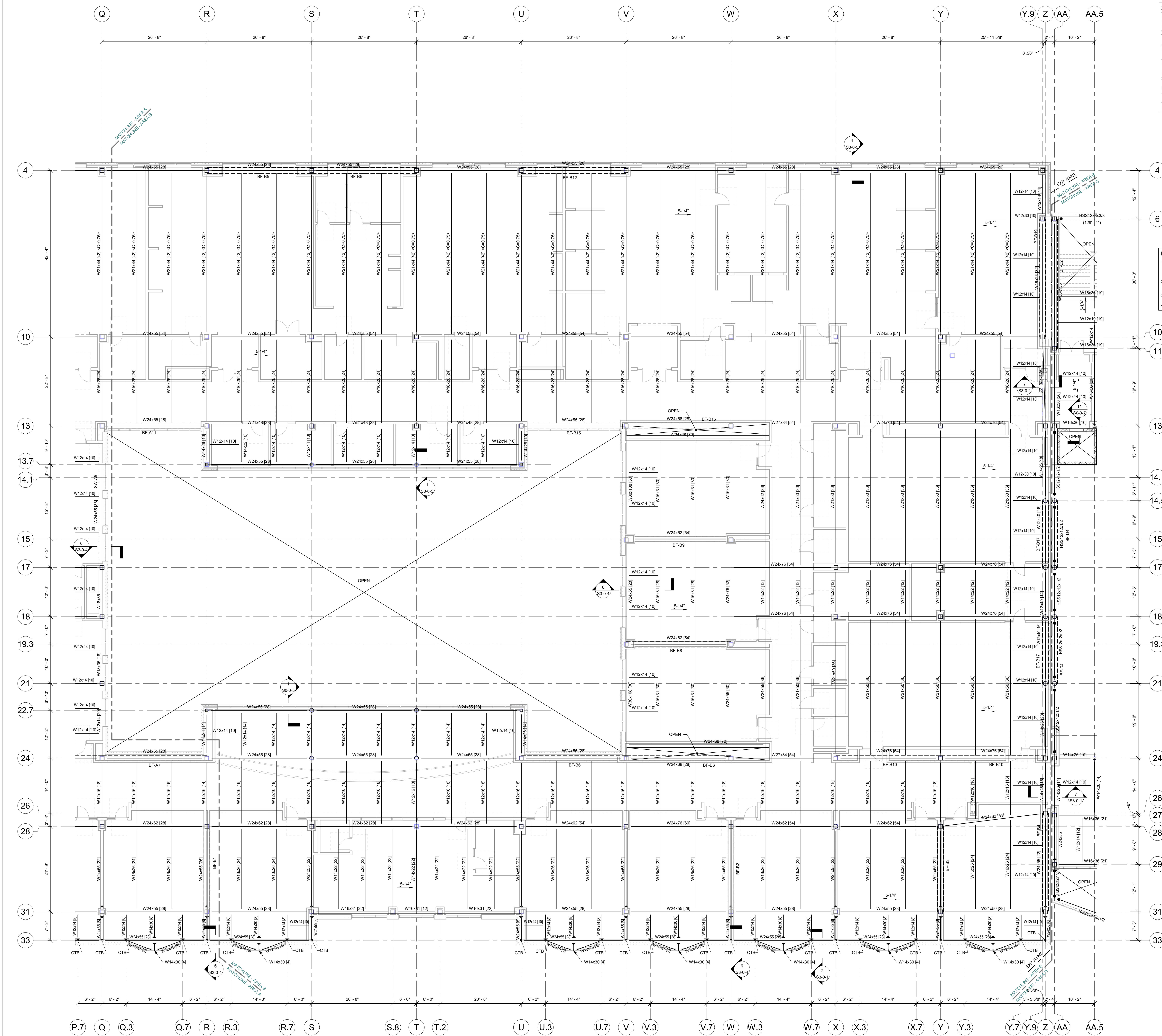
- 1. TYPICAL THIN GRID UNLESS NOTED
- 2. FRAMING UNLESS NOTED
- 3. COORDINATE UNLESS NOTED
- 4. SLOPE UNLESS NOTED

BRACE FRAME KEY		
0" TYP		INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL
0" TYP		INDICATES A BRACE FRAME ABOVE LEVEL
0" TYP		INDICATES A BRACE FRAME BELOW LEVEL

**61-1-3A**

Drawn By: EDG





**SPRAY FIREPROOFING NOTES:**  
STEEL COLUMNS, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.  
STEEL BEAMS AND KICKERS, ON THIS DRAWING, SUPPORTING FLOOR TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.  
CONCEALED FROM VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.  
EXPOSED TO VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING.  
**NO** FIREPROOFING REQUIRED AT SUPPLEMENTAL STEEL ROUND HSS GIRTS AND OUTRIGGERS SUPPORTING CURTAINWALL.  
COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

**FRAMING ELEVATION NOTES:**  
1.) TYPICAL UNDERSIDE-OF-DECK ELEVATION = (13' - 6 3/4") AT THE THIRD FLOOR LEVEL IN THE AREA BOUNDED BY GRIDS (Q) - (Z) AND (4) - (22).  
2.) FRAMING ELEVATIONS ARE BASED ON TOP-OF-FLOOR ELEVATION, (134' - 0"), SHOWN ON THE ARCHITECTURAL DRAWINGS.  
3.) COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.  
4.) SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

BRACE FRAME KEY	
0" TYP	WF BF-X
0" TYP	WF BF-X
0" TYP	WF BF-X



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## NORTHEAST METRO TECH

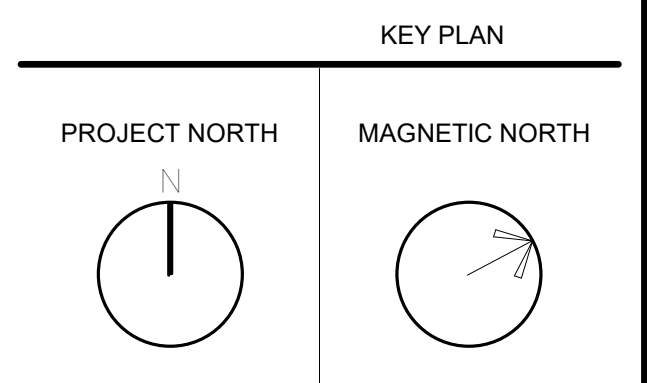
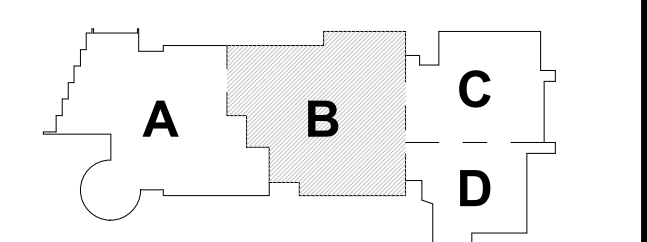
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MSBA 60% CD  
Submission

01/13/2023



## THIRD FLOOR FRAMING PLAN - AREA B

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: EDG  
Date: 01/13/2023

**S1-1-3B**



NORTHEAST  
METRO TECH

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FRAMING NOTES:

- FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
- REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. PITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- BF-1 ETC. INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3 AND S4-0-4 FOR ADDITIONAL INFORMATION.
- [X] INDICATES THE NUMBER OF 3/4" DIAMETER x 4 1/4" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.
- INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 8 AND 9 ON DRAWING S0-0-5 AND DETAIL 3 ON DRAWING S0-0-7.
- INDICATES A 5/16" FILLET WELD ALL AROUND (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO TYPICAL DETAIL 2 ON DRAWING S0-0-7.
- < X > INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER.
- 5-1/4" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH 6x6 - W2 1xW2.1 WWR.
- 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE TYPE B, GALVANIZED STEEL ROOF DECK.
- 3" INDICATES SPAN DIRECTION OF 3" DEEP, 18/20 GAGE TYPE NCA, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.
- 6" INDICATES SPAN DIRECTION OF 3" DEEP, 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0-8.
- FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8.
- HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP, 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 4" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH 6x6 - W2 1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-7 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5' LONG HEADED STUDS.
- HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP, 18/20 GAGE TYPE NCA, GALVANIZED CELLULAR ACOUSTIC STEEL DECK WITH 3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6 1/2". REINFORCE WITH 6x6 - W2 1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-8 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5' LONG HEADED STUDS.
- INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8 ON DRAWING S0-0-4 AND DETAIL 1 ON DRAWING S0-0-8. FOR DECKING SUPPORT, REFER TO DETAIL 4 ON DRAWING S0-0-5. REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
- CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.
- WF INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 8 ON DRAWING S0-0-8.
- INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF SHEAR WALLS TO THE STRUCTURE.
- INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWING.
- 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 18/20 GAGE TYPE NCA, GALVANIZED CELLULAR ACOUSTICAL STEEL ROOF DECK.
- 10' x 2" PC PLANK INDICATES SPAN OF 10' DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK TO BE DESIGNED FOR MINIMUM OF 2 HOUR FIRE RATING.
- FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- INDICATES A SPICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPICE CONNECTION FOR FULL CAPACITY OF STEEL BEAM.

FRAMING ELEVATION NOTES:

- TYPICAL UNDERSIDE-OF-DECK ELEVATION = (137' - 6 3/4") AT THE THIRD FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (AA) - (AA.9) AND (5.2) - (9), UNLESS NOTED OTHERWISE AS (X' - X'), (Y' - X' - X'), OR HILO.
- TYPICAL UNDERSIDE-OF-DECK ELEVATION = (139' - 0 3/4") AT THE THIRD FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (DD) - (NN) AND (16) - (17), UNLESS NOTED OTHERWISE AS (X' - X'), (Y' - X' - X'), OR HILO.
- TYPICAL UNDERSIDE-OF-DECK ELEVATION = (136' - 4") AT THE MULTI-PURPOSE ROOF LEVEL, IN THE AREA BOUNDED BY GRIDS (DD) - (MM) AND (7.2) - (16.2), UNLESS NOTED OTHERWISE AS (X' - X'), (Y' - X' - X'), OR HILO.
- FRAMING ELEVATIONS ARE BASED ON TOP-OF-FLOOR ELEVATION, (134' - 0"), SHOWN ON THE ARCHITECTURAL DRAWINGS.
- COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

SPRAY FIREPROOFING NOTES:

STEEL COLUMNS, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN, EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

STEEL BEAMS AND KICKERS, ON THIS DRAWING, SUPPORTING FLOOR TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

CONCEALED FROM VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

EXPOSED TO VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING.

NO FIREPROOFING REQUIRED AT SUPPLEMENTAL STEEL ROUND HSS GRITS AND OUTRIGGERS SUPPORTING CURTAINWALL.

COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

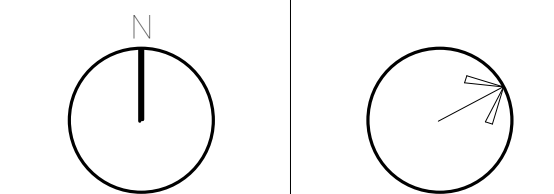
BRACE FRAME KEY

- 0" TYP
- 0" TYP
- 0" TYP
- INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL.
- INDICATES A BRACE FRAME ABOVE LEVEL.
- INDICATES A BRACE FRAME BELOW LEVEL.

KEY PLAN

PROJECT NORTH

MAGNETIC NORTH



THIRD FLOOR  
FRAMING PLAN -  
AREA C

Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: EDG

Date: 01/13/2023

S1-1-3C



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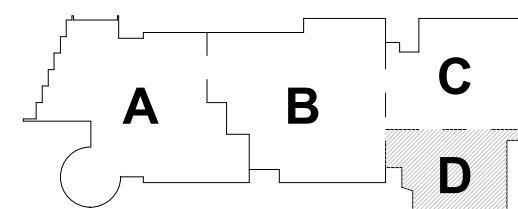


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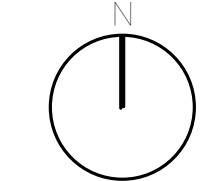
MSBA 60% CD  
Submission

01/13/2023

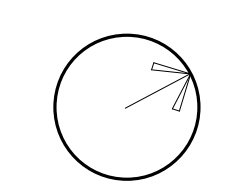


KEY PLAN

PROJECT NORTH



MAGNETIC NORTH



THIRD FLOOR  
FRAMING PLAN -  
AREA D

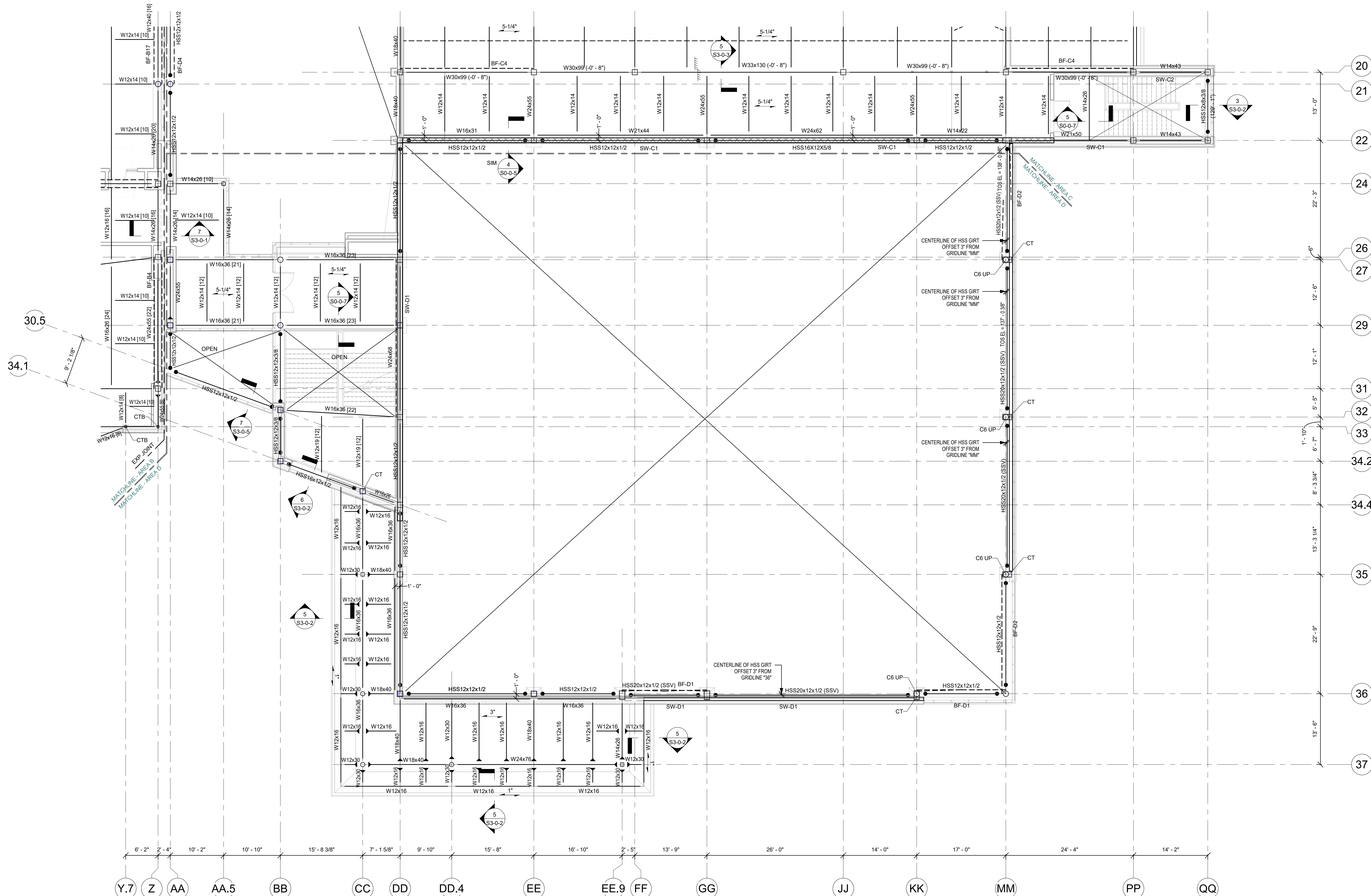
Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: EDG

Date: 01/13/2023

S1-1-3D



FRAMING ELEVATION NOTES:

- 1.) TYPICAL UNDERSIDE-OF-DECK ELEVATION = (133' - 6 3/4") AT THE THIRD FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (AA) - (DD) AND (18) - (20.9), UNLESS NOTED OTHERWISE AS (X' - X'), (+X' - X'), OR HILO.
- 2.) TYPICAL UNDERSIDE-OF-DECK ELEVATION = (128' - 6 3/4") AT THE LOW ROOF LEVEL, IN THE AREA BOUNDED BY GRIDS (CC) - (FF) AND (22.9) - (25), UNLESS NOTED OTHERWISE AS (X' - X'), (+X' - X'), OR HILO.
- 3.) FRAMING ELEVATIONS ARE BASED ON TOP-OF-FLOOR ELEVATION, (134' - 0"), SHOWN ON THE ARCHITECTURAL DRAWINGS.
- 4.) COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- 5.) SLOPE STEEL UNIFMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

SPRAY FIREPROOFING NOTES:

STEEL COLUMNS, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN, EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING, CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

STEEL BEAMS AND KICKERS, ON THIS DRAWING, SUPPORTING FLOOR TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

Concealed from View - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

Exposed to View - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING.

NO FIREPROOFING REQUIRED AT SUPPLEMENTAL STEEL ROUND HSS GIRTS AND OUTRIGGERS SUPPORTING CURTAINWALL.

COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

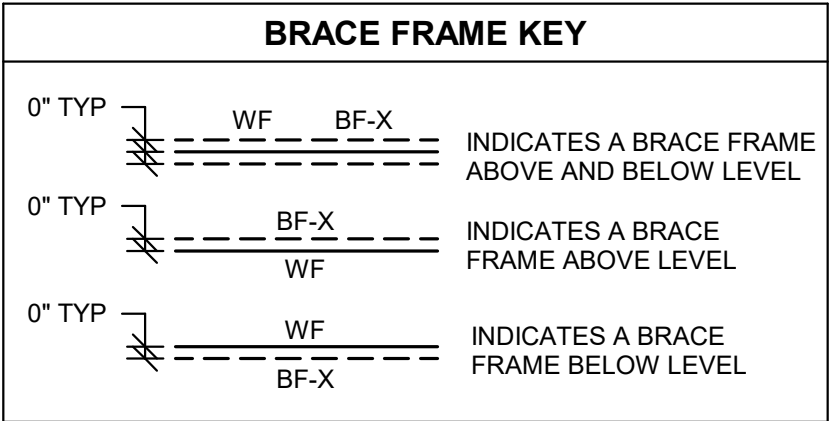
BRACE FRAME KEY

0' TYP		INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL
0' TYP		INDICATES A BRACE FRAME ABOVE LEVEL
0' TYP		INDICATES A BRACE FRAME BELOW LEVEL



**FRAMING ELEVATION NOTES:**

- 1.) TYPICAL UNDERSIDE-OF-DECK ELEVATION =  $(147' - 6 \frac{3}{4}')$  AT THE FOURTH FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (H) - (S) AND (4) - (22), UNLESS NOTED OTHERWISE AS  $(X' - X')$ ,  $(+/-X' - X')$ , OR HILO.
- 2.) FRAMING ELEVATIONS ARE BASED ON TOP-OF-FLOOR ELEVATION,  $(145' - 0'')$ , SHOWN ON THE ARCHITECTURAL DRAWINGS.
- 3.) COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- 4.) SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.



**S1-1-4A**







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(781)396-9007  
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**SPRAY FIREPROOFING NOTES:**  
STEEL COLUMN, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.  
STEEL BEAMS AND KICKERS, ON THIS DRAWING, SUPPORTING FLOOR TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING (Unless located higher than 20' to the bottom of the structural members) CONCEALED FROM VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.  
EXPOSED TO VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING.  
**NO FIREPROOFING REQUIRED AT SUPPLEMENTAL STEEL ROUND HSS GIRTS AND OUTRIGERS SUPPORTING CURTAINWALL.**  
COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

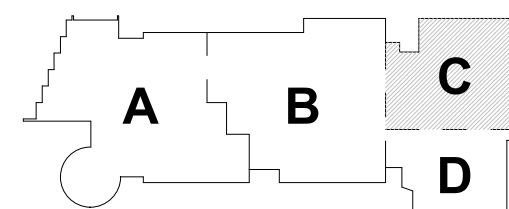
### FRAMING NOTES:

- FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
- REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. FITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- BF-1 ETC., INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3 AND S4-0-4 FOR ADDITIONAL INFORMATION.
- [XX] INDICATES THE NUMBER OF 3/4" DIAMETER x 4 1/4" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.
- INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 8 AND 9 ON DRAWING S0-0-5 AND DETAIL 3 ON DRAWING S0-0-7.
- INDICATES A 9/16" FLLET WELD ALL AROUND (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO TYPICAL DETAIL 2 ON DRAWING S0-0-7.
- <X> INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER.
- 5-1/4" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH 6#6 - W2 1WV2 1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-8 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5' LONG HEADED STUDS.
- 1-1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE TYPE B, GALVANIZED STEEL ROOF DECK.
- NCA INDICATES SPAN DIRECTION OF 3" DEEP, 18/20 GAGE TYPE NCAS, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.
- 6" INDICATES SPAN DIRECTION OF 3" DEEP, 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0-8.
- FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 8 ON DRAWING S0-0-4 AND DETAIL 1 ON DRAWING S0-0-8.
- 6" HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP, 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 4" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH 6#6 - W2 1WV2 1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-8 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5' LONG HEADED STUDS.
- 6 1/2" NCA HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP, 18/20 GAGE TYPE NCA, GALVANIZED CELLULAR ACOUSTIC STEEL DECK WITH 3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6 1/2". REINFORCE WITH 6#6 - W2 1WV2 1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-8 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5' LONG HEADED STUDS.
- INDICATES A ROOF DRAIN. REFER TO TYPICAL, STRUCTURAL DETAILS 1 AND 8 ON DRAWING S0-0-4 AND DETAIL 1 ON DRAWING S0-0-8. FOR DECKING SUPPORT, REFER TO DETAIL 4 ON DRAWING S0-0-5. REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
- CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.
- WF INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 6 ON DRAWING S0-0-8.
- OR INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-8 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF SHEAR WALLS TO THE STRUCTURE.
- INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWING.
- 1-1/2" BCA INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 18/20 GAGE TYPE BCA, GALVANIZED CELLULAR ACOUSTICAL STEEL ROOF DECK.
- 10' x 2" PC PLANK INDICATES SPAN OF 10' DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK TO BE DESIGNED FOR MINIMUM OF 2 HOUR FIRE RATING.
- FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- WF INDICATES A SPLICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPLICE CONNECTION FOR FULL CAPACITY OF STEEL BEAM.

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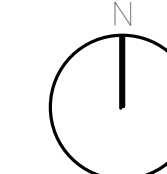
MSBA 60% CD  
Submission

01/13/2023

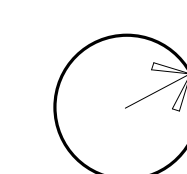


KEY PLAN

PROJECT NORTH



MAGNETIC NORTH



## FOURTH FLOOR FRAMING PLAN - AREA C

Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: EDG

Date: 01/13/2023

S1-1-4C

### FRAMING ELEVATION NOTES:

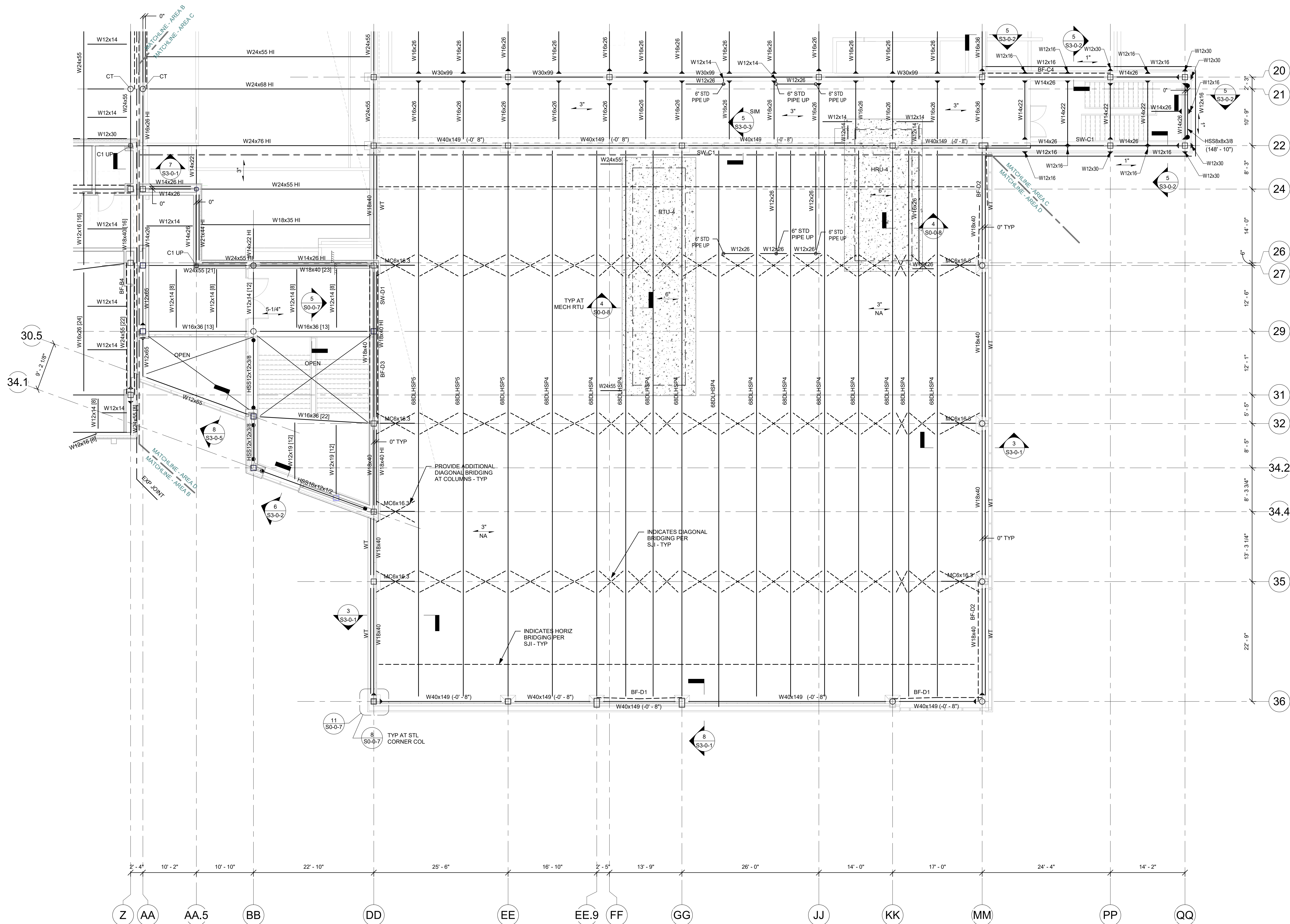
- TYPICAL UNDERSIDE-OF-DECK ELEVATION = (147'-6 3/4") AT THE FOURTH FLOOR LEVEL. IN THE AREA BOUNDED BY GRIDS (AA) - (AA.9) AND (7) - (9) UNLESS NOTED OTHERWISE AS (X' - X'), (+X' - X'), OR HILO.
- TYPICAL UNDERSIDE-OF-DECK ELEVATION = (152'-4") AT THE CLEAR-STORY ROOF LEVEL. IN THE AREA BOUNDED BY GRIDS (AA) - (NN) AND (7) - (17) UNLESS NOTED OTHERWISE AS (X' - X'), (+X' - X'), OR HILO.
- FRAMING ELEVATIONS ARE BASED ON TOP-OF-FLOOR ELEVATION, (148'-0"), SHOWN ON THE ARCHITECTURAL DRAWINGS.
- COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

### BRACE FRAME KEY

- 0" TYP. WF - BF-X INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL
- 0" TYP. BF-X - WF INDICATES A BRACE FRAME ABOVE LEVEL
- 0" TYP. WF - BF-X INDICATES A BRACE FRAME BELOW LEVEL






**SPRAY FIREPROOFING NOTES:**  
 1. ALL EXPOSED STEEL DRAWING TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VENT PORTION OF ROUND HSS COLUMNS TO BE CONCEALED FIREPROOFING (Unless located higher than 20' to the bottom of the structural members).  
 2. ALL EXPOSED STEEL DRAWING TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.  
 3. STEEL BEAMS AND KICKERS, ON THIS DRAWING, SUPPORTING FLOOR TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING (Unless located higher than 20' to the bottom of the structural members).  
 4. CONCEALED FIREPROOFING (Unless indicated otherwise) TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT FIREPROOFING.  
 5. EXPOSED TO VENT - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING.  
 6. NO FIREPROOFING REQUIRED AT SUPPLEMENTAL STEEL ROUND HSS GIRT AND OUTRIGGERS SUPPORTING CANTILEVER.  
 COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.



**FRAMING ELEVATION NOTES:**

- 1.) TYPICAL UNDERSIDE-OF-DECK ELEVATION =  $(147' - 6 \frac{3}{4}" )$  AT THE FOURTH FLOOR LEVEL IN THE AREA BOUNDED BY GRIDS (AA) - (DD) AND (18) - (20.5).
- 2.) TYPICAL UNDERSIDE-OF-DECK ELEVATION =  $(152' - 4" )$  AT THE GYM ROOF LEVEL IN THE AREA BOUNDED BY GRIDS (DD) - (KK) AND (17) - (24).
- 3.) FRAMING ELEVATIONS ARE BASED ON TOP-OF-FLOOR ELEVATION,  $(148' - 0" )$ , SHOWN ON THE ARCHITECTURAL DRAWINGS.
- 4.) COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- 5.) SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

### BRACE FRAME KEY

0" TYP		INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL
0" TYP		INDICATES A BRACE FRAME ABOVE LEVEL
0" TYP		INDICATES A BRACE FRAME BELOW LEVEL



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(781)396-9007  
EDG@EDGINC.COM

### SPRAY FIREPROOFING NOTES:

STEEL COLUMNS SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

STEEL BEAMS AND KICKERS, ON THIS DRAWING, SUPPORTING ROOF TO RECEIVE 1-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. METAL ROOF DECK TO RECEIVE 1-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

CONCEALED FROM VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

EXPOSED TO VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING.

NO FIREPROOFING REQUIRED AT SUPPLEMENTAL STEEL ROUND HSS CRTS AND OUTRIGGERS SUPPORTING CURTAINWALL.

COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

### FRAMING NOTES:

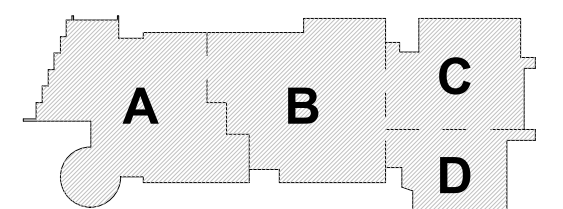
- FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-1, S0-2, S0-3, S0-4, S0-5, S0-6, S0-7, S0-8, S0-9, S0-10, S0-11, S0-12, S0-13, S0-14, S0-15, S0-16, S0-17, S0-18, S0-19, S0-20, S0-21, S0-22, S0-23, S0-24, S0-25, S0-26, S0-27, S0-28, S0-29, S0-30, S0-31, S0-32, S0-33, S0-34, S0-35, S0-36, S0-37, S0-38, S0-39, S0-40, S0-41, S0-42, S0-43, S0-44, S0-45, S0-46, S0-47, S0-48, S0-49, S0-50, S0-51, S0-52, S0-53, S0-54, S0-55, S0-56, S0-57, S0-58, S0-59, S0-60, S0-61, S0-62, S0-63, S0-64, S0-65, S0-66, S0-67, S0-68, S0-69, S0-70, S0-71, S0-72, S0-73, S0-74, S0-75, S0-76, S0-77, S0-78, S0-79, S0-80, S0-81, S0-82, S0-83, S0-84, S0-85, S0-86, S0-87, S0-88, S0-89, S0-90, S0-91, S0-92, S0-93, S0-94, S0-95, S0-96, S0-97, S0-98, S0-99, S0-100.
- REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. PITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- BF-1 ETC. INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3 AND S4-0-4 FOR ADDITIONAL INFORMATION.
- [XX] INDICATES THE NUMBER OF 3/4" DIA X 4' LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.
- INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 8 AND 9 ON DRAWING S0-0-5 AND DETAIL 3 ON DRAWING S0-0-7.
- INDICATES A 5/16" FILLET WELD ALL AROUND (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO TYPICAL DETAIL 2 ON DRAWING S0-0-7.
- + X' - INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER.
- 5'-14" INDICATES SPAN DIRECTION OF 2' DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH 6x8 - W2 14W2 1 WWR.
- 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE TYPE B, GALVANIZED STEEL ROOF DECK.
- 3" NCAS INDICATES SPAN DIRECTION OF 3" DEEP, 1820 GAGE TYPE NCAS, GALVANIZED CELLULAR ACUSTIC STEEL ROOF DECK.
- 6" INDICATES SPAN DIRECTION OF 3" DEEP, 16 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0-8.
- FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 8 ON DRAWING S0-0-5 AND DETAIL 1 ON DRAWING S0-0-8.
- 6" HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP, 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 4" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH 6x8 - W2 14W2 1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-7 FOR ADDITIONAL INFORMATION. USE 3/4" DIA X 5' LONG HEADED STUDS.
- 6 1/2" HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP, 1820 GAGE TYPE NCA, GALVANIZED CELLULAR ACUSTIC STEEL DECK WITH 3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6 1/2". REINFORCE WITH 6x8 - W2 14W2 1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-7 FOR ADDITIONAL INFORMATION. USE 3/4" DIA X 5' LONG HEADED STUDS.
- INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8. FOR DECKING SUPPORT, REFER TO DETAIL 4 ON DRAWING S0-0-8. REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
- CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.
- WF INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 8 ON DRAWING S0-0-8.
- INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-4 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL. FOR NON-STRUCTURAL WALLS, REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF SHEAR WALLS TO THE STRUCTURE.
- INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWING.
- 1 1/2" BCA INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 1820 GAGE TYPE BCA, GALVANIZED CELLULAR ACUSTIC STEEL ROOF DECK.
- 10' + 2" PC PLANK INDICATES SPAN OF 10' DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK TO BE DESIGNED FOR MINIMUM OF 2-HOUR FIRE RATING.
- FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- WF INDICATES A SPLICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPLICE CONNECTION FOR FULL CAPACITY OF STEEL BEAM.

### FRAMING ELEVATION NOTES:

- TYPICAL UNDERSIDE-OF-DECK ELEVATION = (162' - 0") AT THE ROOF LEVEL. IN THE AREA BOUNDED BY GRIDS (K), (S) AND (4) - (22). UNLESS NOTED OTHERWISE AS (X' - X'), (+X' - X'), OR HI/LO.
- COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

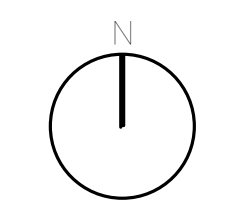
MSBA 60% CD  
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01/13/2023

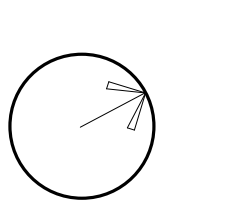


KEY PLAN

PROJECT NORTH



MAGNETIC NORTH



## ROOF FRAMING PLAN - AREA A

Scale: 1/8" = 1'-0"

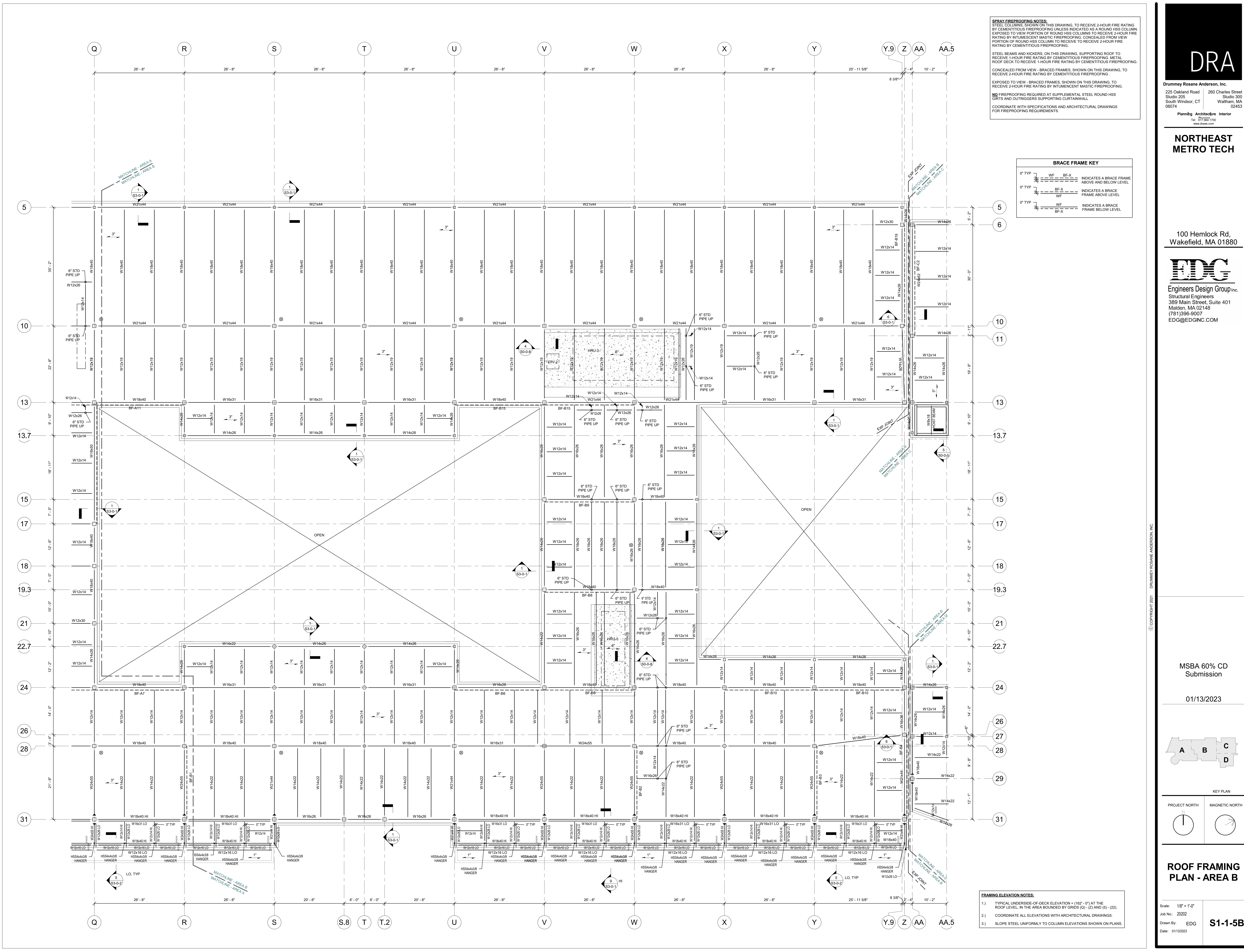
Job No.: 20202

Drawn By: EDG

Date: 01/13/2023

S1-1-5A





**SPRAY FIREPROOFING NOTES:**  
STEEL COLUMNS, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.  
STEEL BEAMS AND KICKERS, ON THIS DRAWING, SUPPORTING ROOF TO RECEIVE 1-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. METAL ROOF DECK TO RECEIVE 1-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.  
CONCEALED FROM VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING.  
EXPOSED TO VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING.  
NO FIREPROOFING REQUIRED AT SUPPLEMENTAL STEEL ROUND HSS GIRTS AND OUTRIGERS SUPPORTING CURTAINWALL.  
COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

BRACE FRAME KEY		
0° TYP	WF	BF-X
0° TYP	BF-X	WF
0° TYP	WF	BF-X

- FRAMING ELEVATION NOTES:**
- 1.) TYPICAL UNDERSIDE-OF-DECK ELEVATION = (162'-0") AT THE ROOF LEVEL IN THE AREA BOUNDED BY GRIDS (0) - (2) AND (5) - (22).
  - 2.) COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
  - 3.) SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

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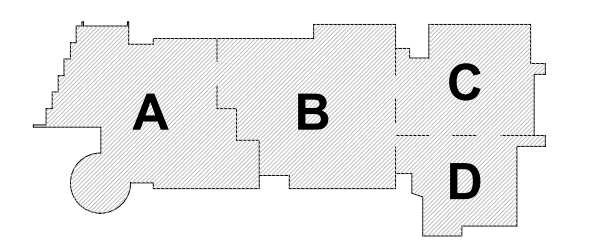
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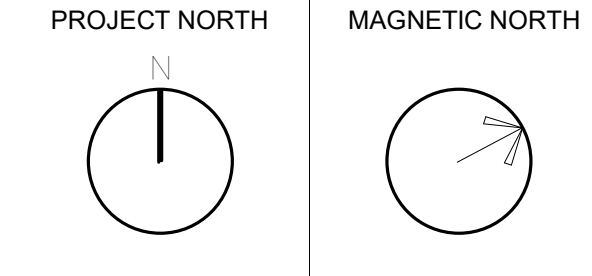
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MSBA 60% CD  
Submission

01/13/2023



KEY PLAN



**ROOF FRAMING  
PLAN - AREA B**

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: EDG  
Date: 01/13/2023  
**S1-1-5B**



**Drummeys Rosane Anderson, Inc.**

225 Oakland Road Studio 205 South Windsor, CT 06074	260 Charles Street Studio 300 Waltham, MA 02453
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**Planning Architecture Interior  
Design**

Tel: 617.954.1700  
[www.draws.com](http://www.draws.com)

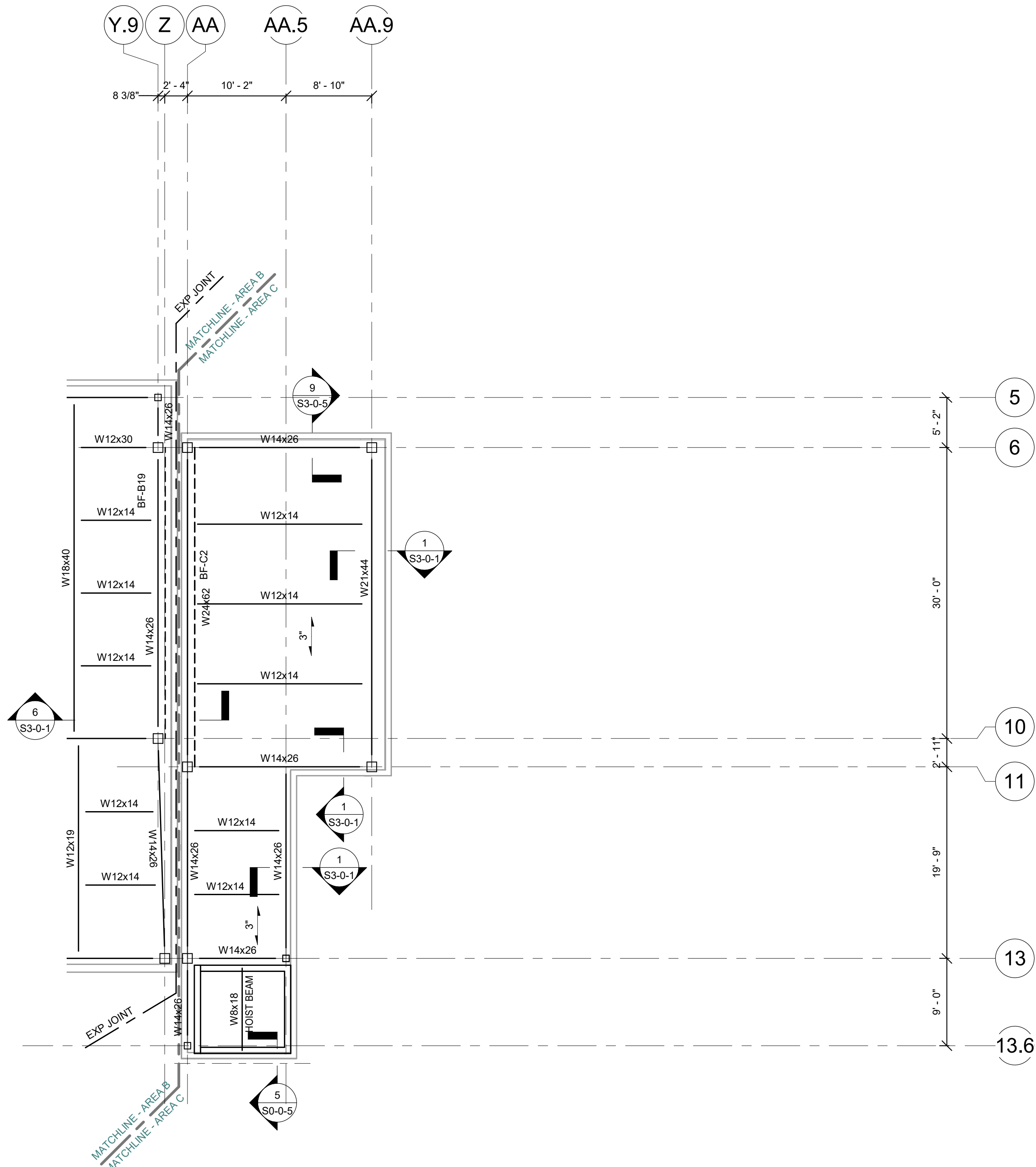
100 Hemlock Rd,  
Wakefield, MA 01880



DRAWING NOTES:	
1)	FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS 50-0-1, 50-0-2, 50-0-3, 50-0-4, 50-0-5, 50-0-6, 50-0-7 AND 50-0-8.
2)	FOR ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS, TOP OF ALL STEEL STUDS SHALL BE AT THE COLUMNS AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
3)	BF-1 ETC. INDICATES A BRACED BAY. REFER TO BRACED FRAME ANALYSIS DETAIL 5 ON DRAWING 50-0-1, 50-0-2, 50-0-3 AND 50-0-4 FOR ADDITIONAL INFORMATION.
4)	[X] INDICATES THE NUMBER OF 3/4" DIAMETER X 4" LONG LEADED STUDS WELDED TO THE TOP FLANGE OF THE MEMBER SPACED EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.
5)	[ ] INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 8 AND 9 ON DRAWING 50-0-5 AND DETAIL 3 ON DRAWING 50-0-6.
6)	[ ] INDICATES A 5/16" FILLET WELD ALL AROUND. (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO TYPICAL DETAIL 2 ON DRAWING 50-0-7.
7)	<X> INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER.
8)	5-1/4" INDICATES STEEL DIRECTION OF 7" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH 6#6 - 2@12X1 DWWR.
9)	1/2" INDICATES STEEL DIRECTION OF 1" DEEP, 20 GAGE TYPE B, GALVANIZED STEEL ROOF DECK.
10)	3" NCAS INDICATES STEEL DIRECTION OF 3" DEEP, 1620 GAGE TYPE B, GALVANIZED STEEL ROOF DECK.
11)	6" INDICATES STEEL DIRECTION OF 3" DEEP, 16 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". REFER TO DETAIL 4 ON DRAWING 50-0-8.
12)	FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ELECTRICAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 8 ON DRAWINGS 50-0-6 AND DETAIL 1 ON DRAWING 50-0-8.
13)	6" HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP, 1620 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 4" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 10". REINFORCE WITH 6#6 - 2@12X1 DWWR. REFER TO TYPICAL DETAIL 5 ON DRAWING 50-0-7 FOR ADDITIONAL INFORMATION.
14)	6 1/2" NCA HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP, 1620 GAGE TYPE NCA, GALVANIZED CELLULAR ACOUSTIC STEEL DECK WITH 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 9 1/2". REINFORCE WITH 6#6 - 2@12X1 DWWR. REFER TO TYPICAL DETAIL 5 ON 50-0-8 FOR ADDITIONAL INFORMATION. USE 3/4" DIA X 5" LONG HENDED STUDS.
15)	[ ] INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 2 ON DRAWING 50-0-8 FOR ADDITIONAL INFORMATION. FOR DECKING STUDS REFER TO DETAIL 4 ON DRAWING 50-0-5. REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
16)	CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.
17)	WF INDICATES A BEAM IN THE STEEL BEAM. REFER TO TYPICAL DETAILS 3 ON DRAWING 50-0-6.
18)	[ ] OR [ ] INDICATES A C/WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING 50-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING 50-0-4 FOR CONNECTIONS TO STEEL BEAMS. FOR CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS, REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF WALLS TO CONCRETE.
19)	[ ] INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWING.
20)	1 1/2" DCA INDICATES STEEL DIRECTION OF 1" DEEP, 1620 GAGE TYPE B, GALVANIZED STEEL ROOF DECK.
21)	10#2 X PC PLANK INDICATES SPAN OF 17" DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING LAY TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK IS DESIGNED FOR MINIMUM 0.2 HOUR FIRE RATING.
22)	FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
23)	WT INDICATES A SPICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPICE CONNECTION FOR FULL CAPACITY OF STEEL BEAM.

**FRAMING ELEVATION NOTES:**

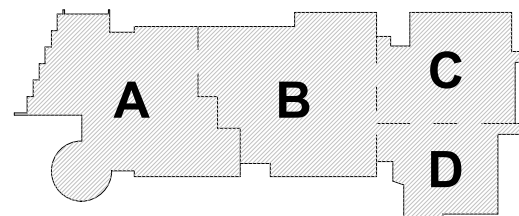
- 1.) TYPICAL UNDERSIDE-OF-DECK ELEVATION = (162' - 0") AT THE ROOF LEVEL, IN THE AREA BOUNDED BY GRIDS (AA) - (AA.9) AND (5.2) - (9.2).
- 2.) COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- 3.) SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.



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Submission

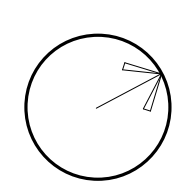
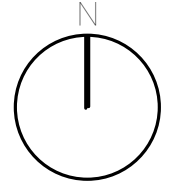
01/13/2023



### KEY PLAN

PROJECT NORTH

MAGNETIC NORTH



## ROOF FRAMING PLAN - AREA C

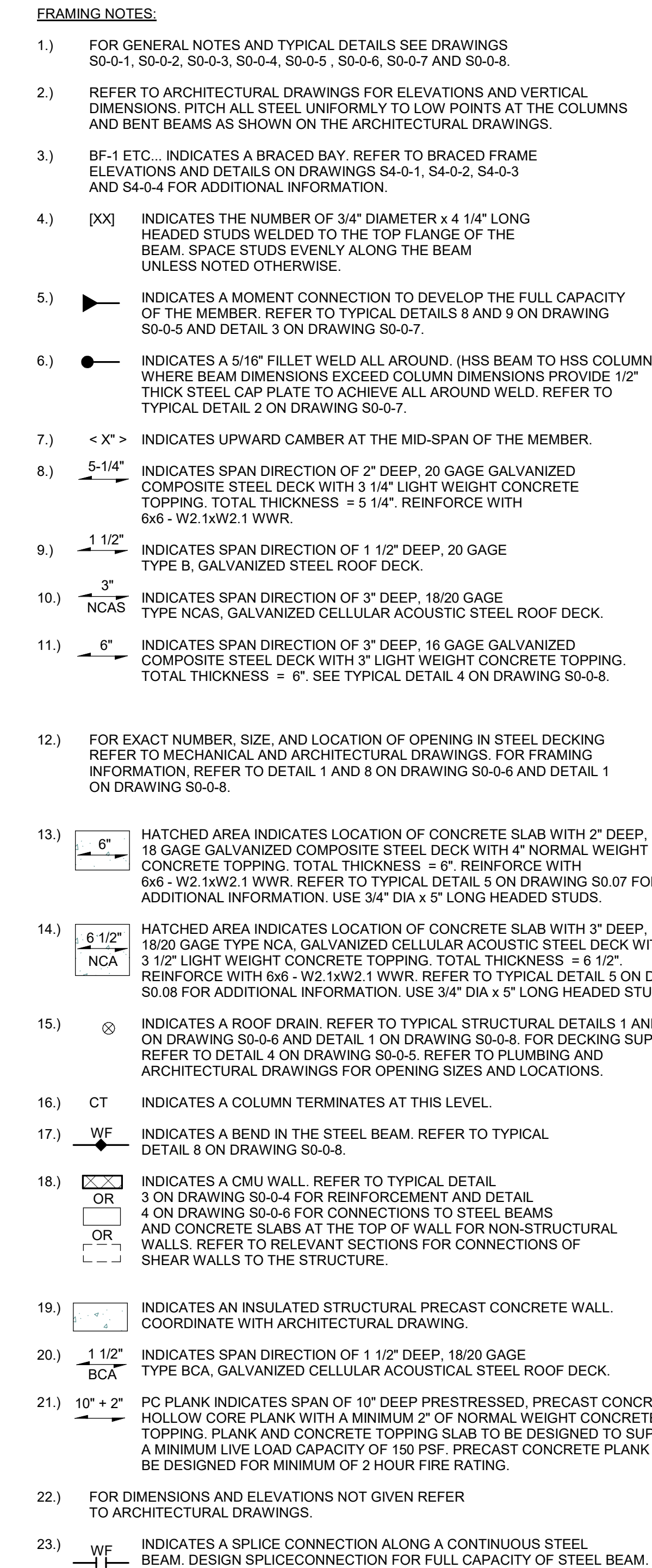
Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: EDC

**S1-1-5C**





- 1.) TYPICAL UNDERSIDE-OF-DECK ELEVATION = (162' - 0") AT THE ROOF LEVEL, IN THE AREA BOUNDED BY GRIDS (AA) - (DD) AND (18) - (26).
- 2.) COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- 3.) SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

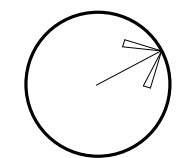
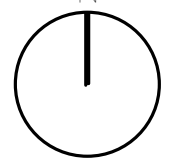
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Submission

01/13/2023



PROJECT NORTH

MAGNETIC NORTH



## ROOF FRAMING PLAN - AREA D

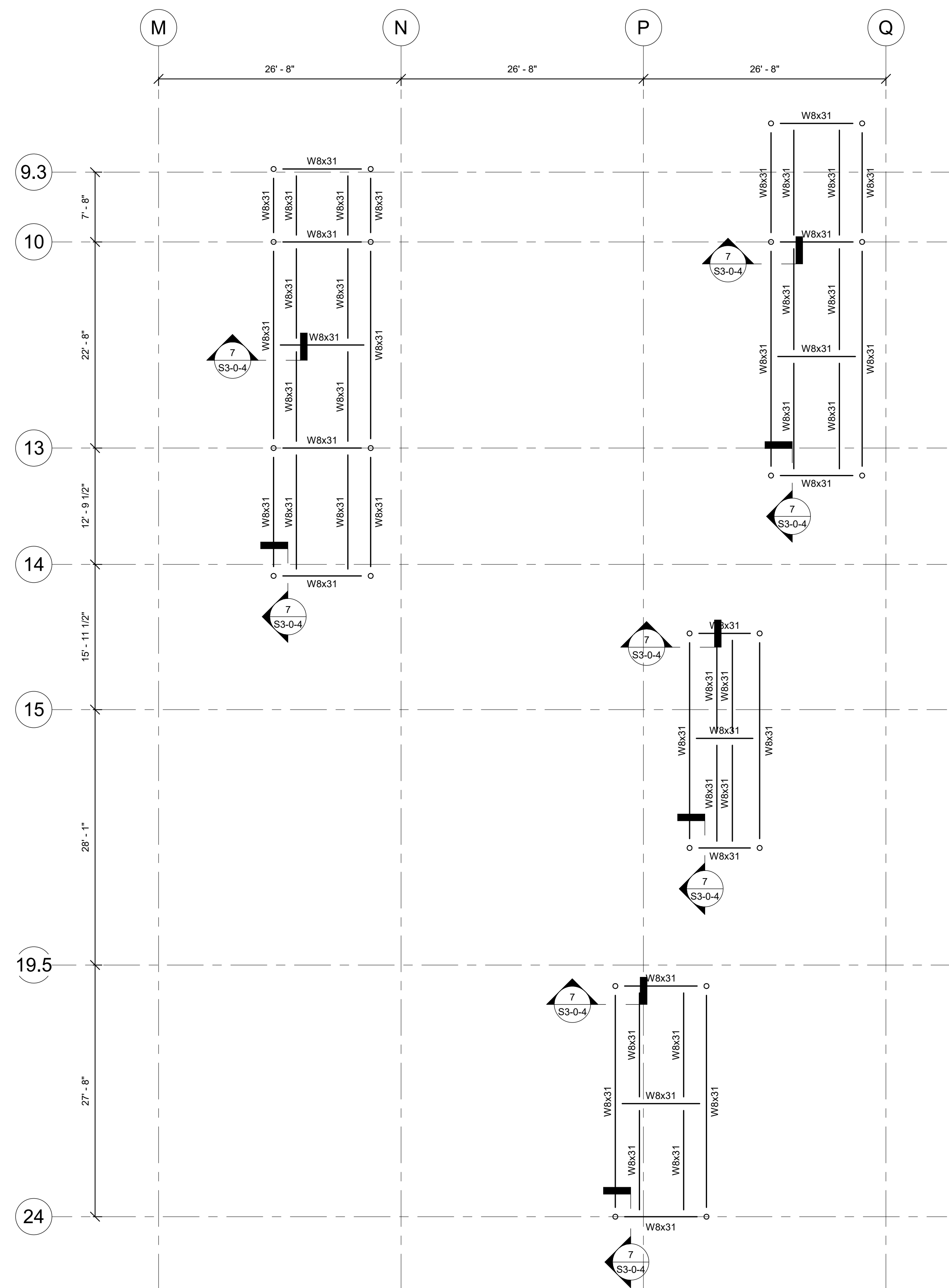
Scale:  $1/8" = 1'$

Job No. 30302

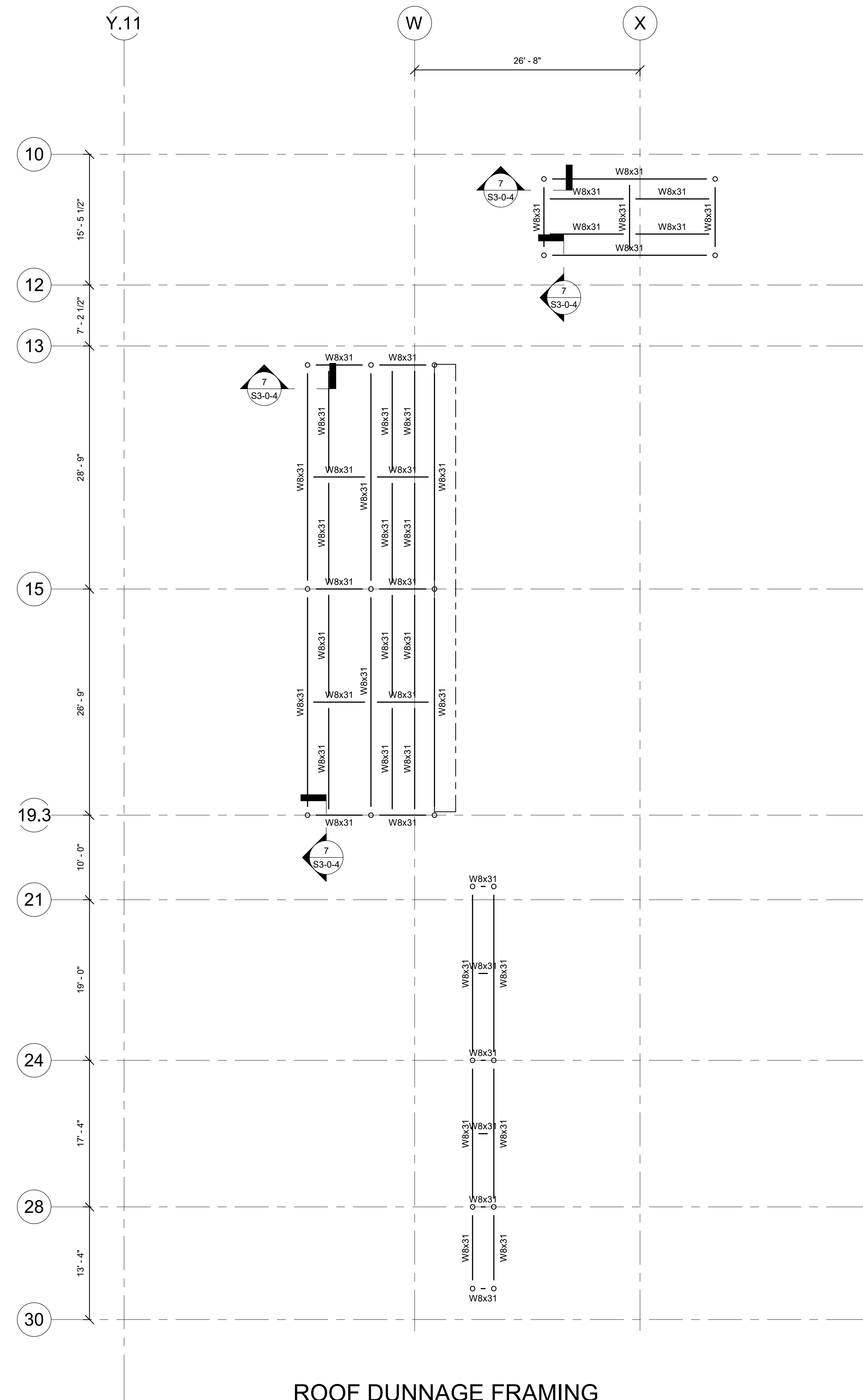
Drawn By: EDG

**S1-1-5D**

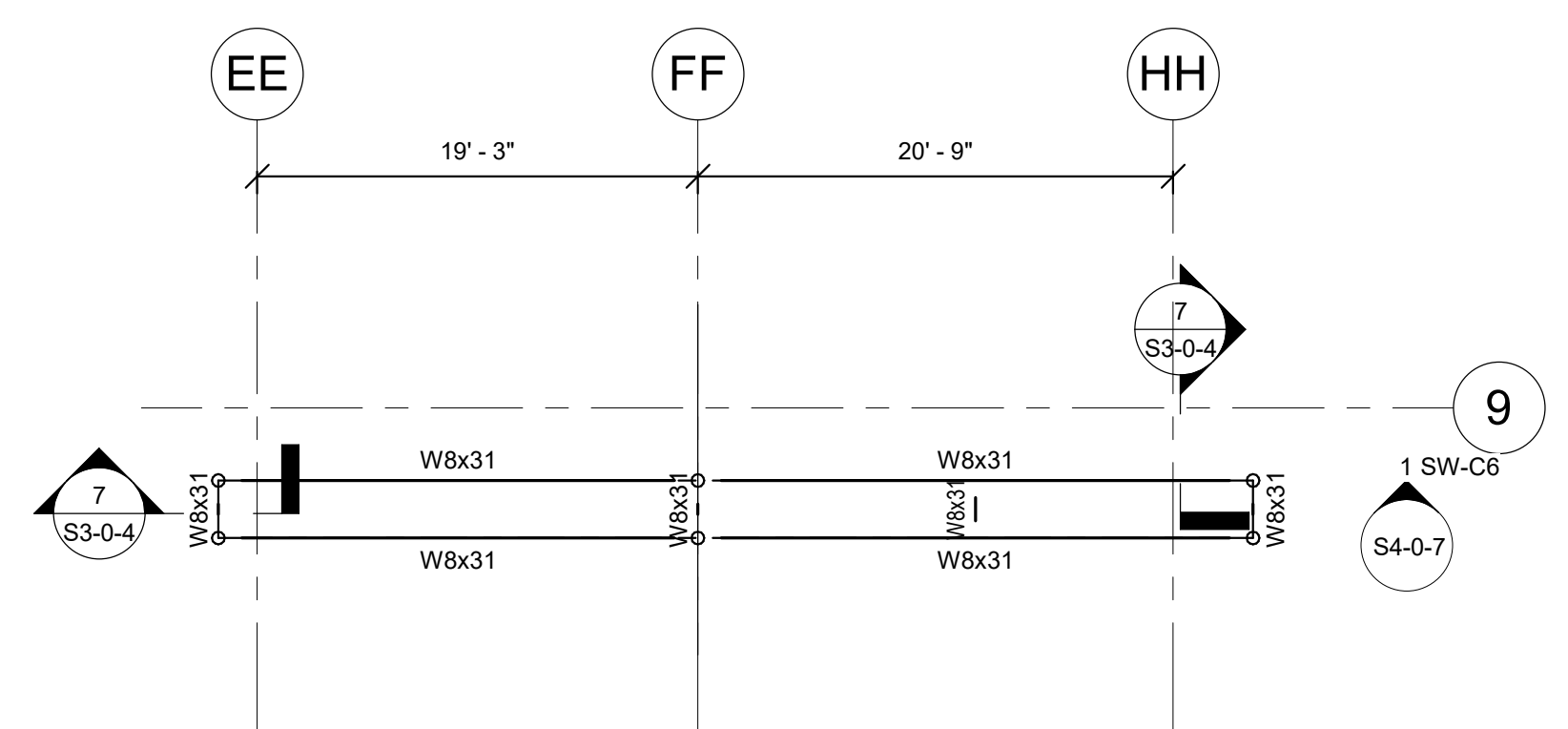




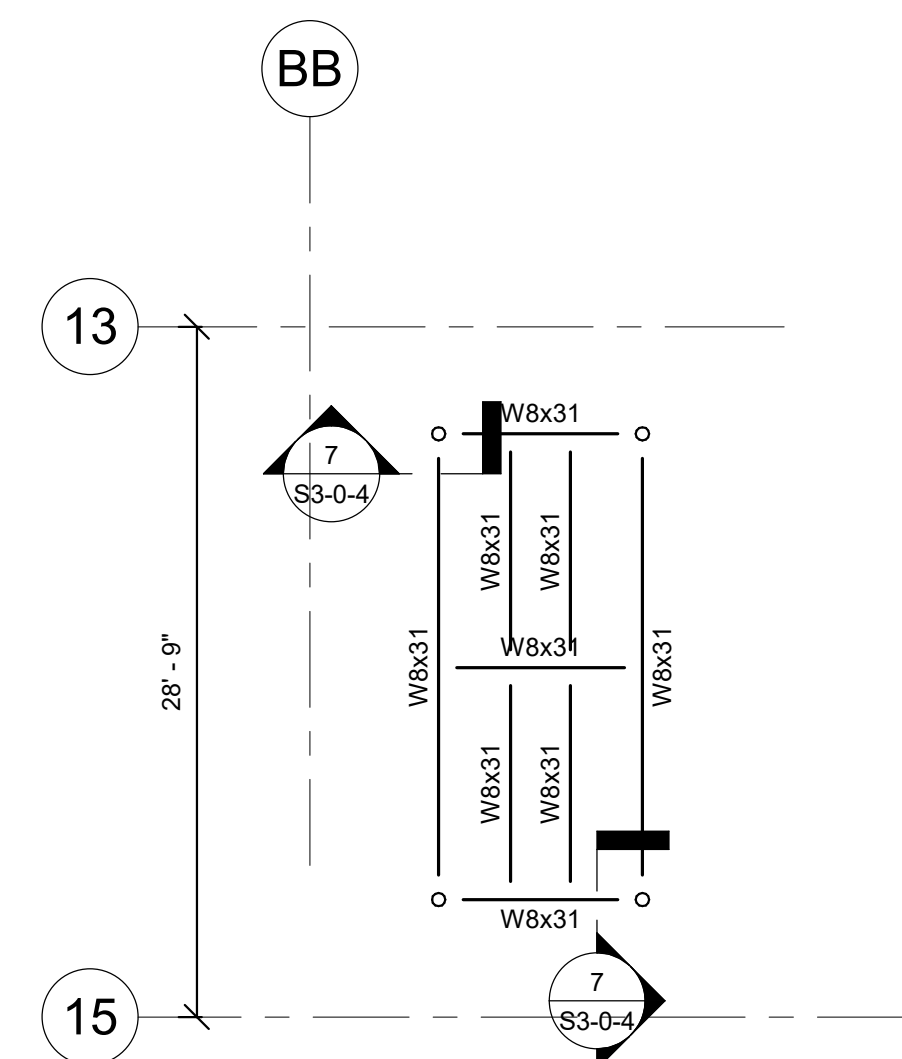
ROOF DUNNAGE FRAMING  
PART PLAN - AREA A



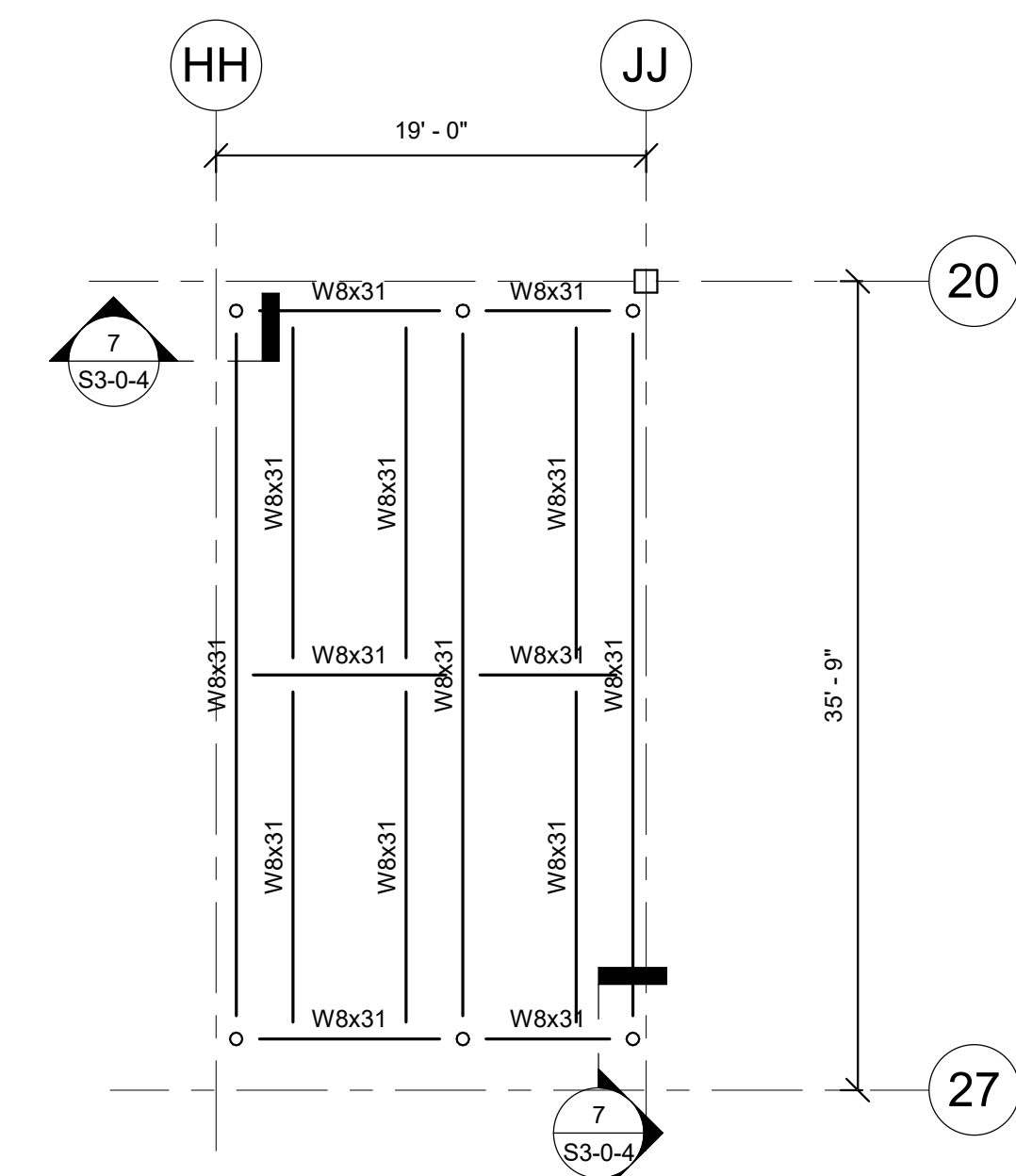
ROOF DUNNAGE FRAMING  
PART PLAN - AREA B



ROOF DUNNAGE FRAMING  
PART PLAN - AREA C

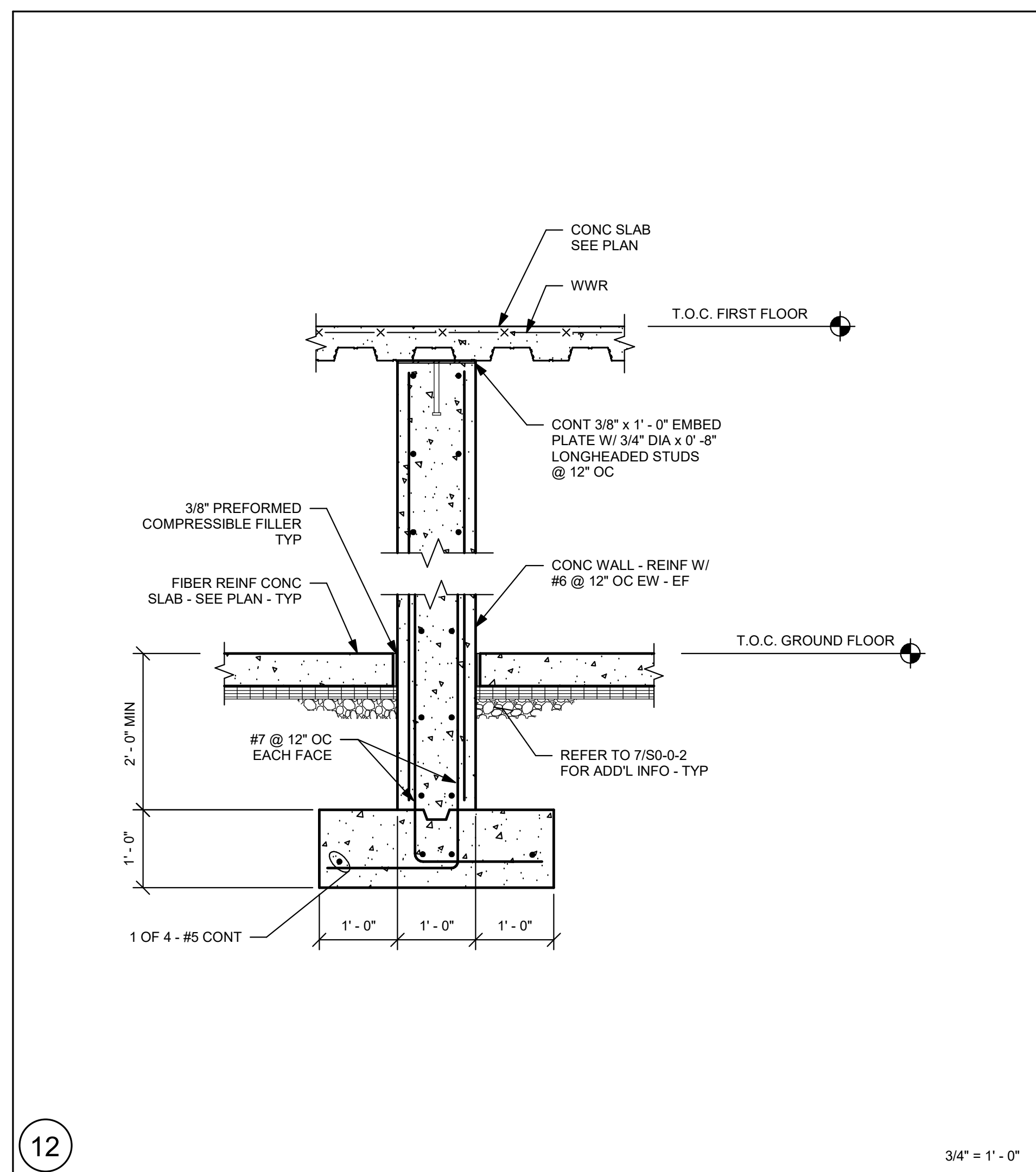
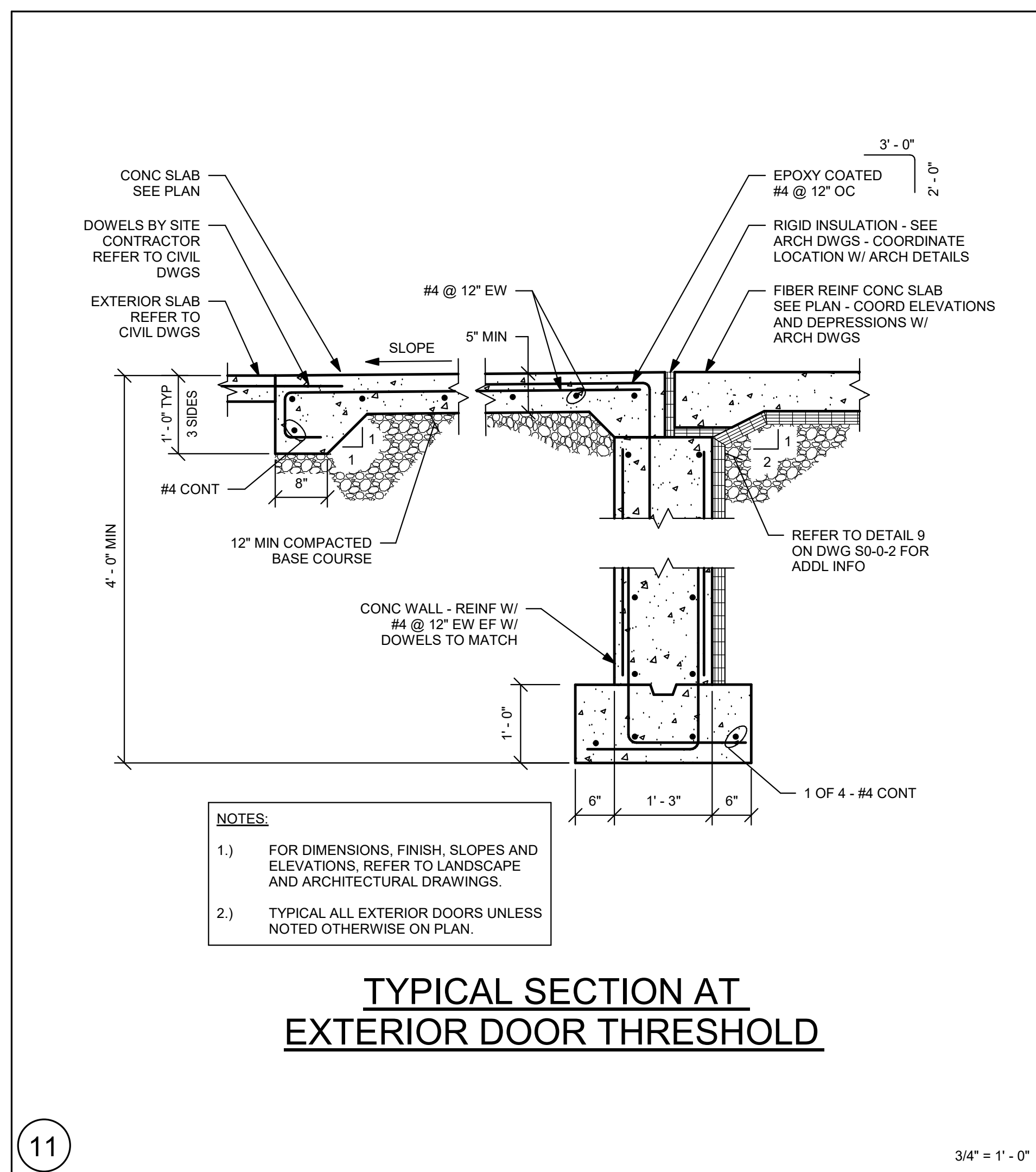
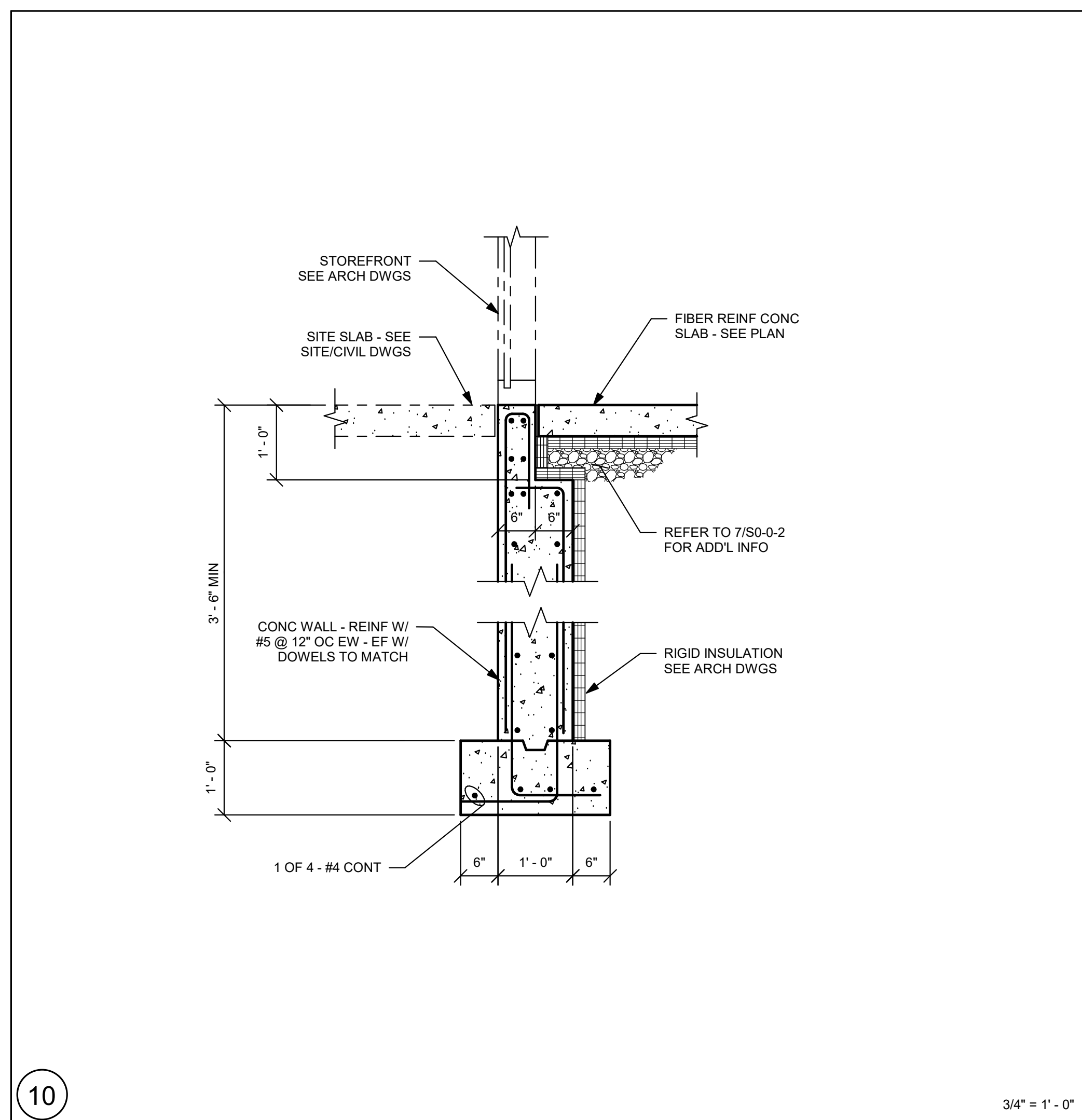
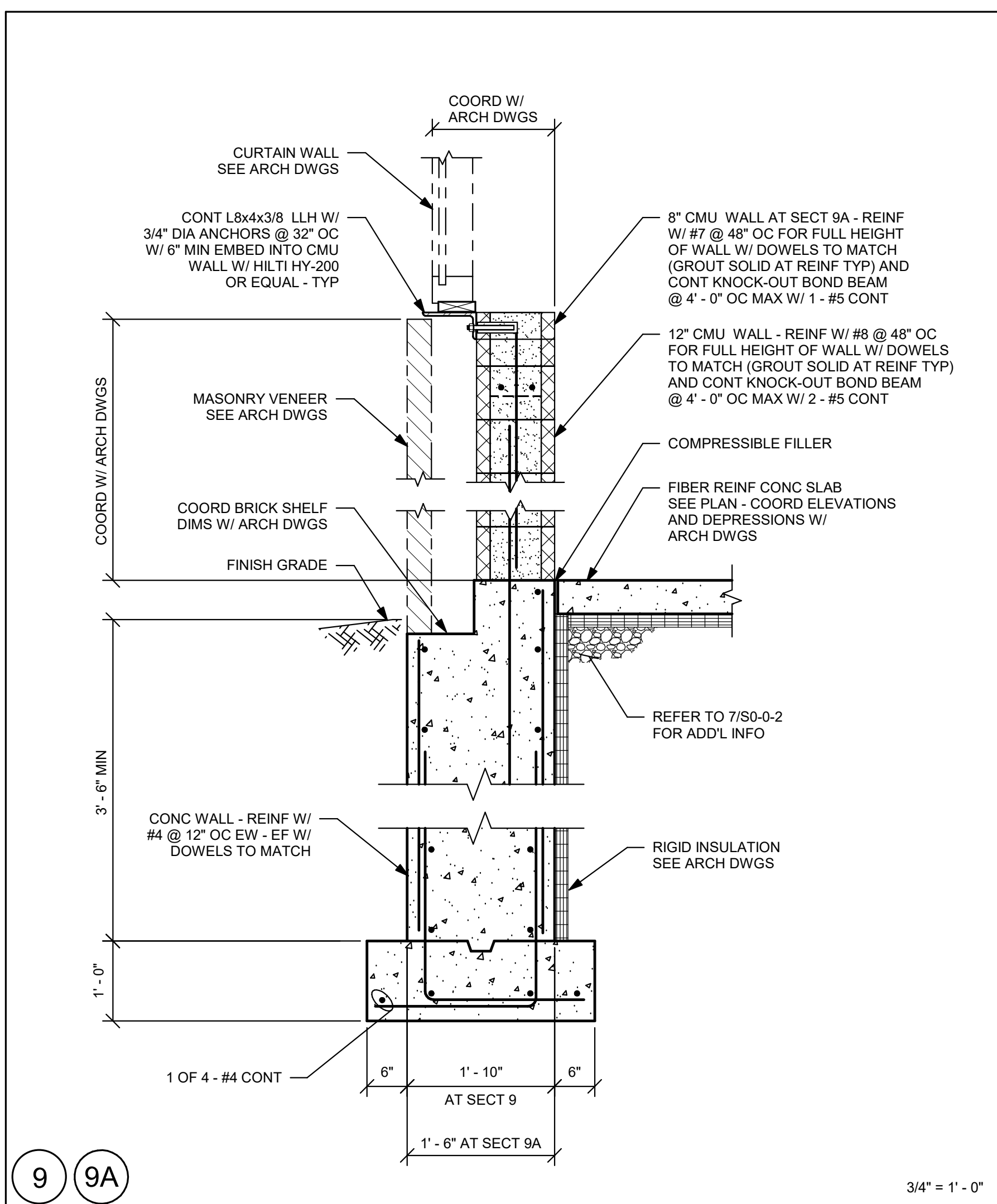
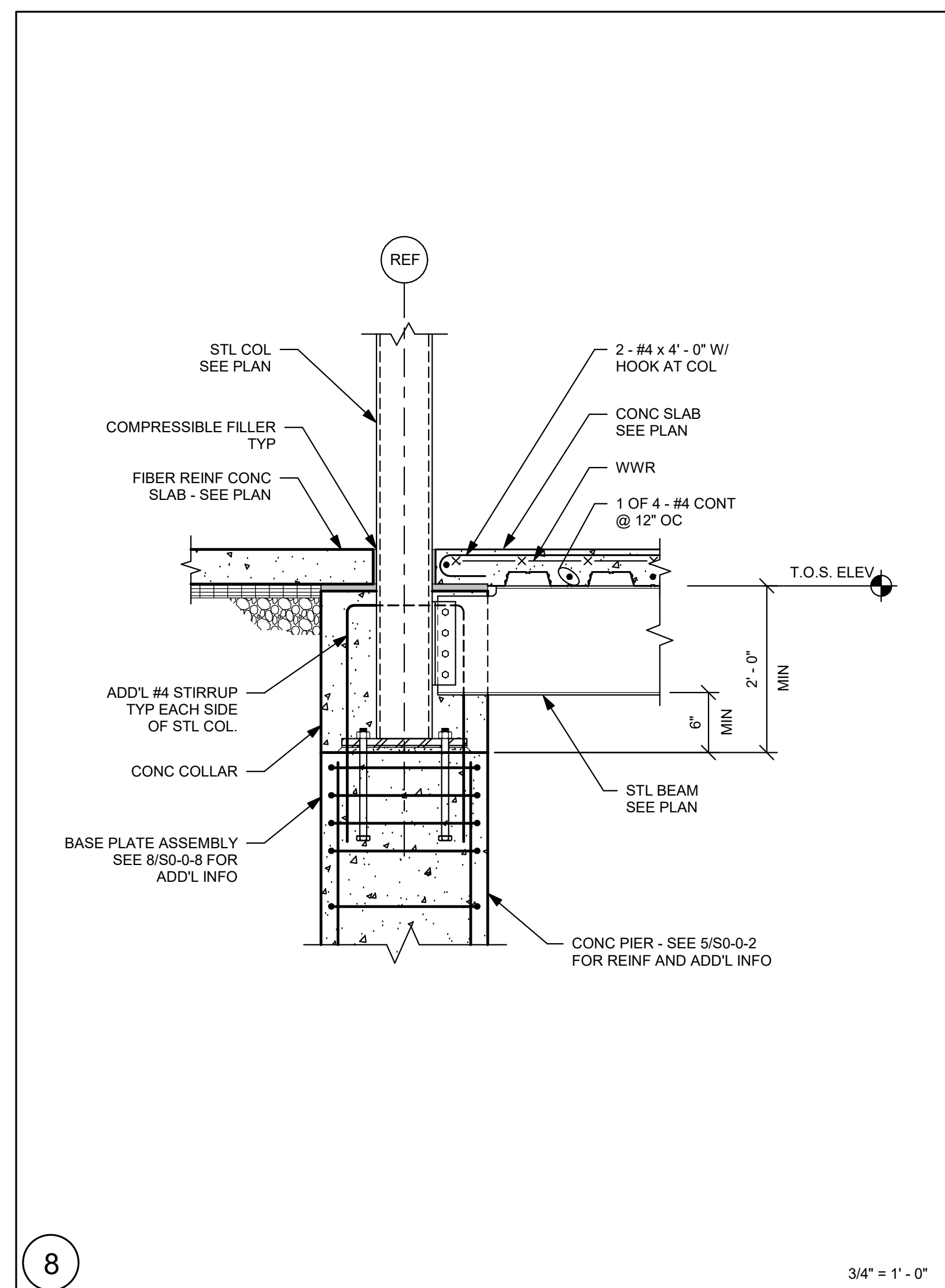
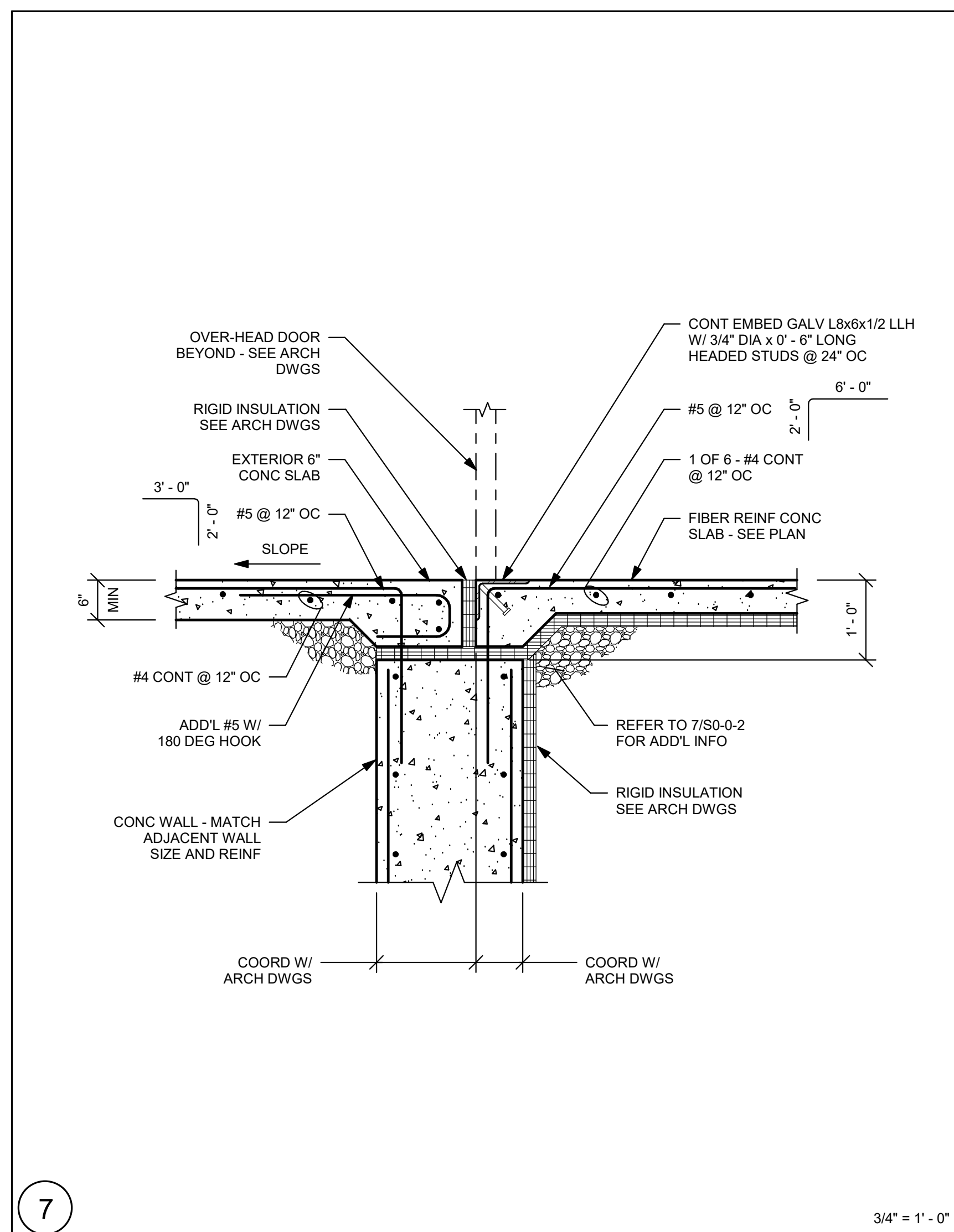
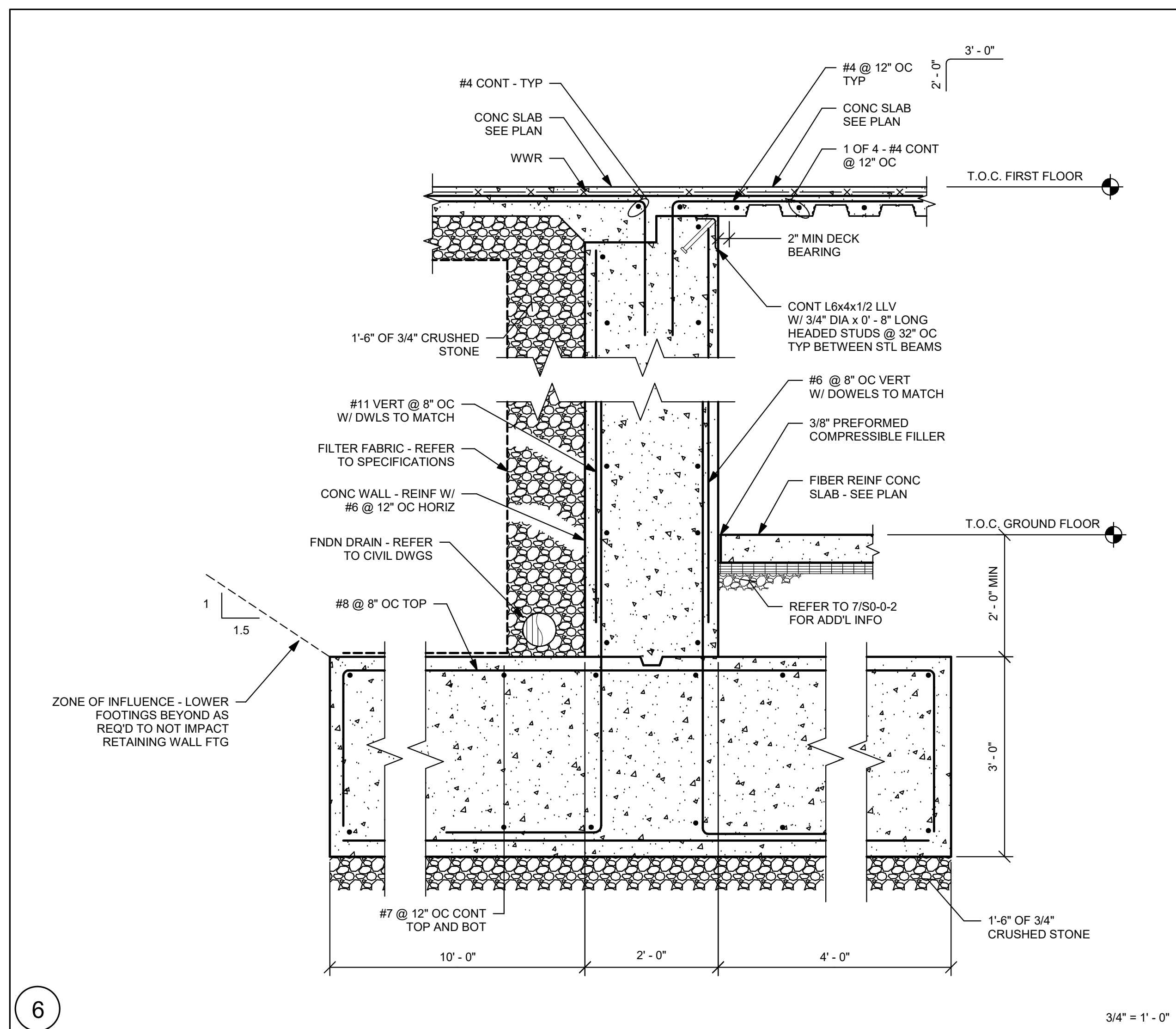
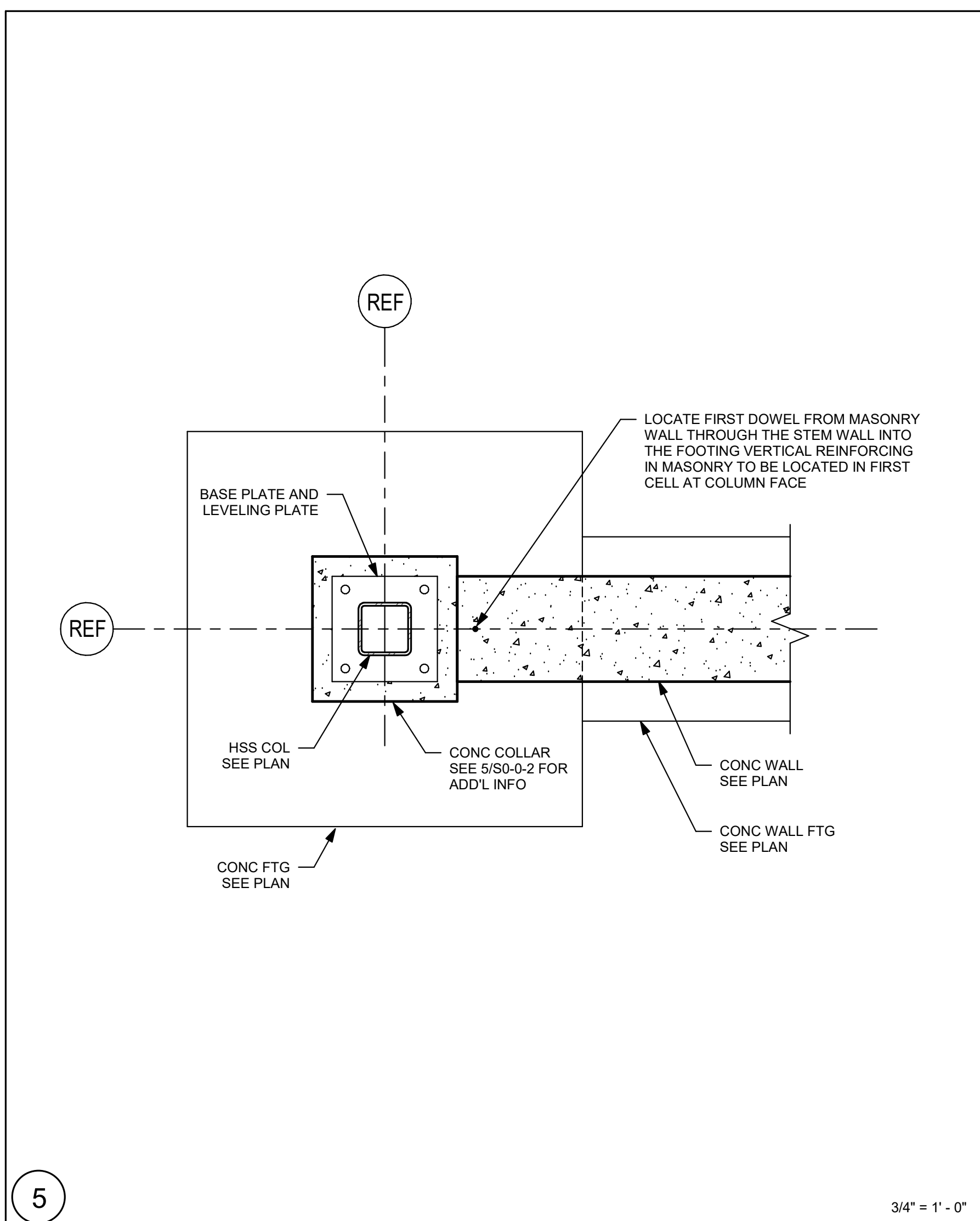
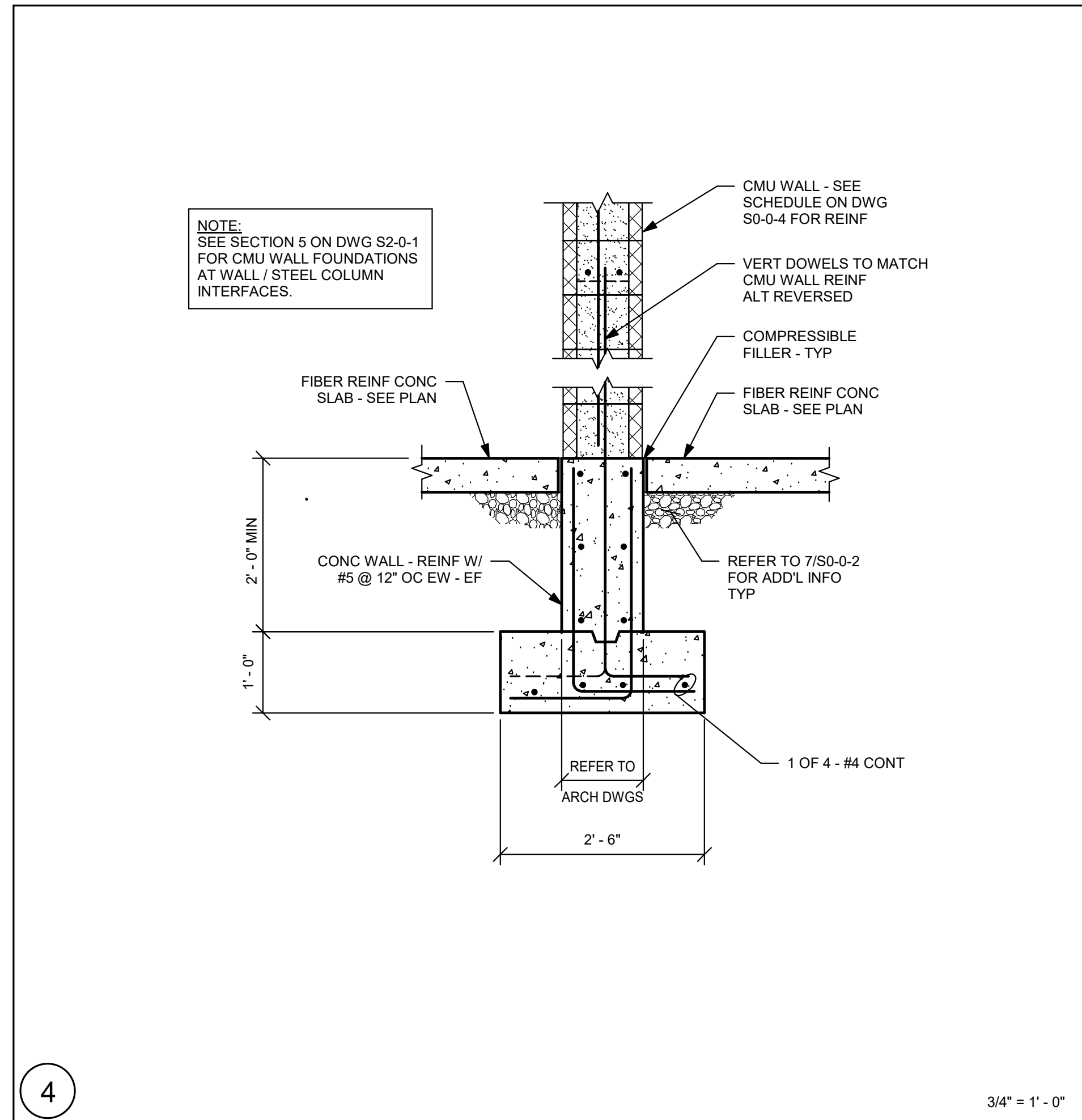
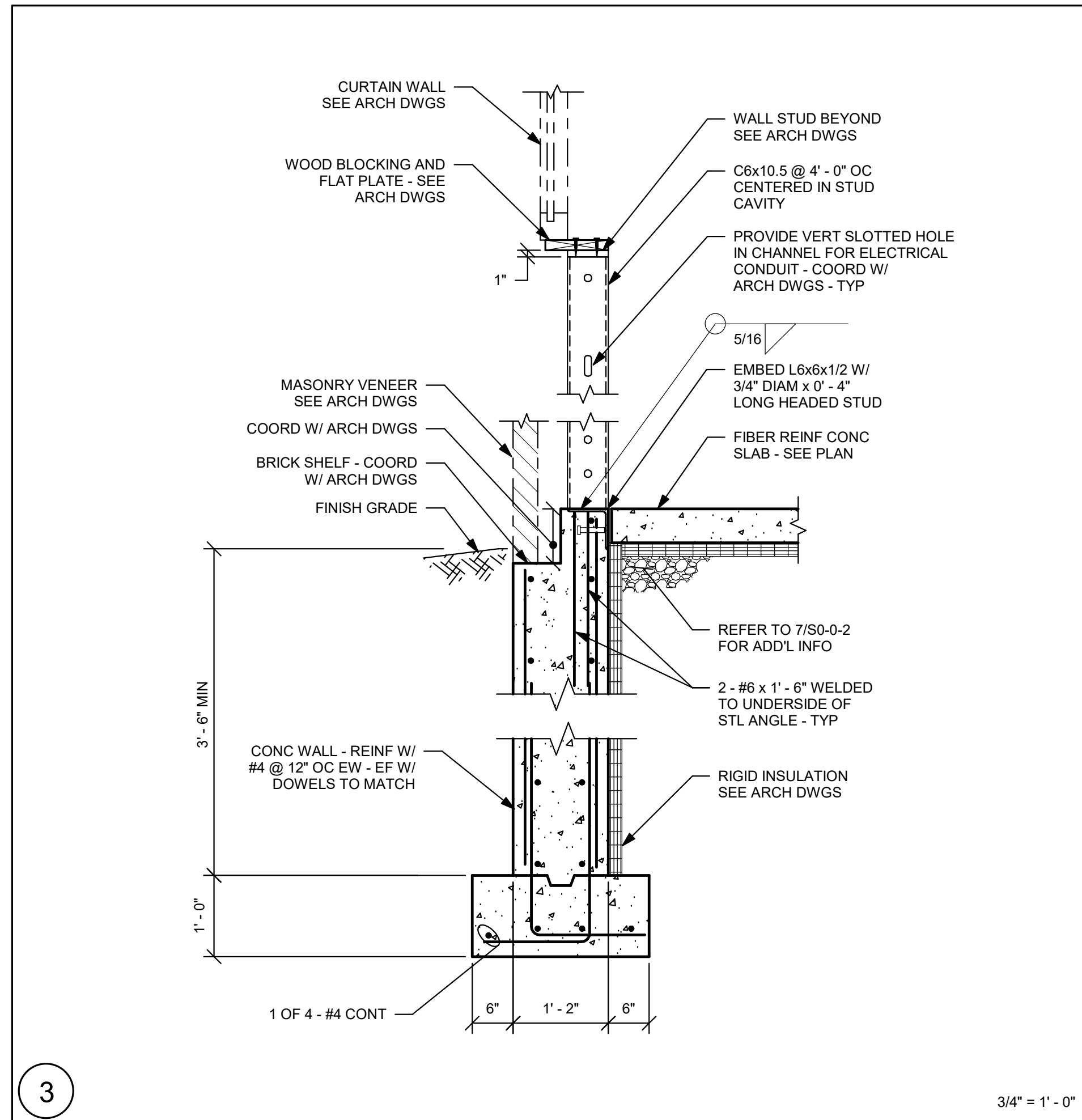
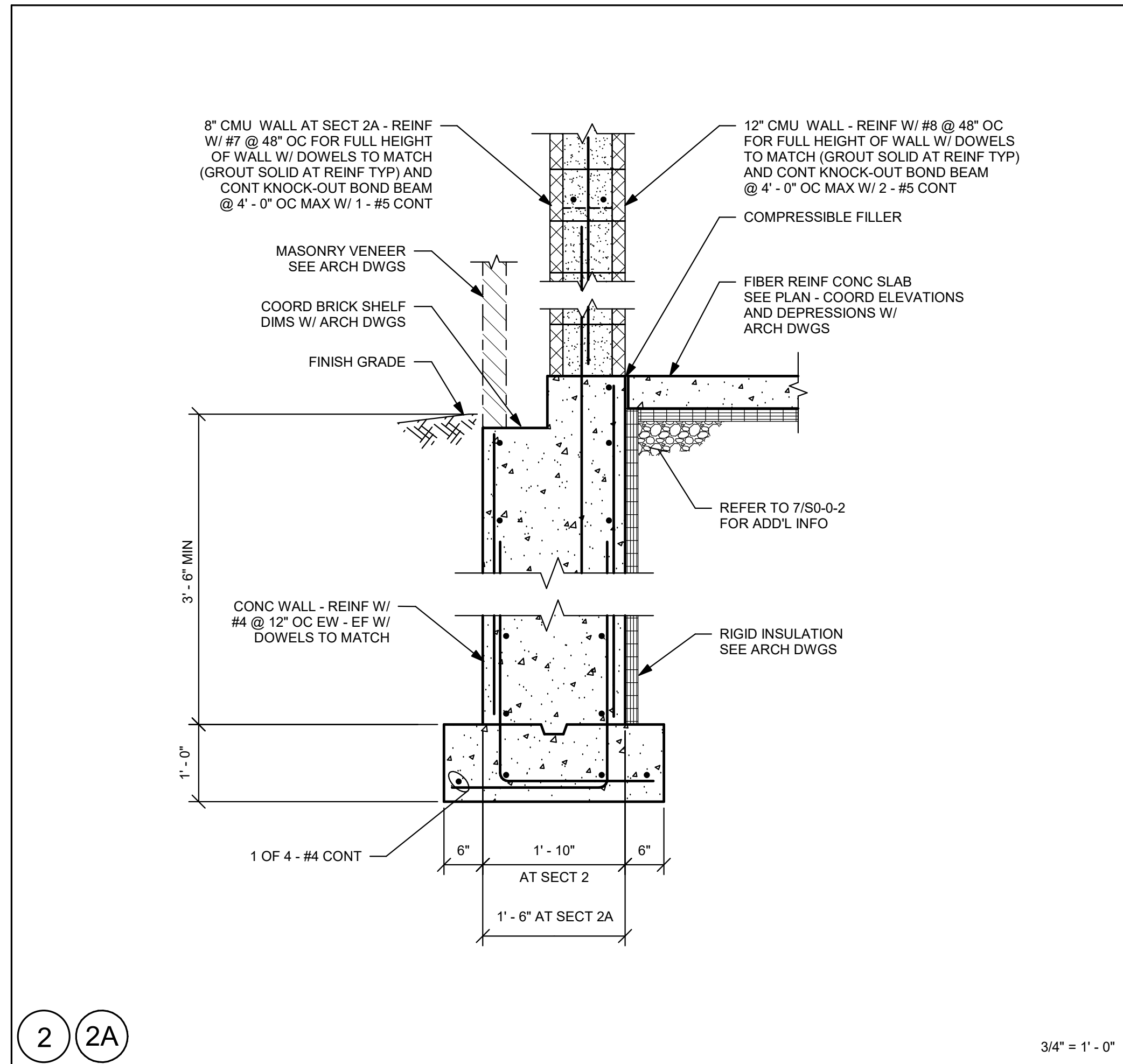
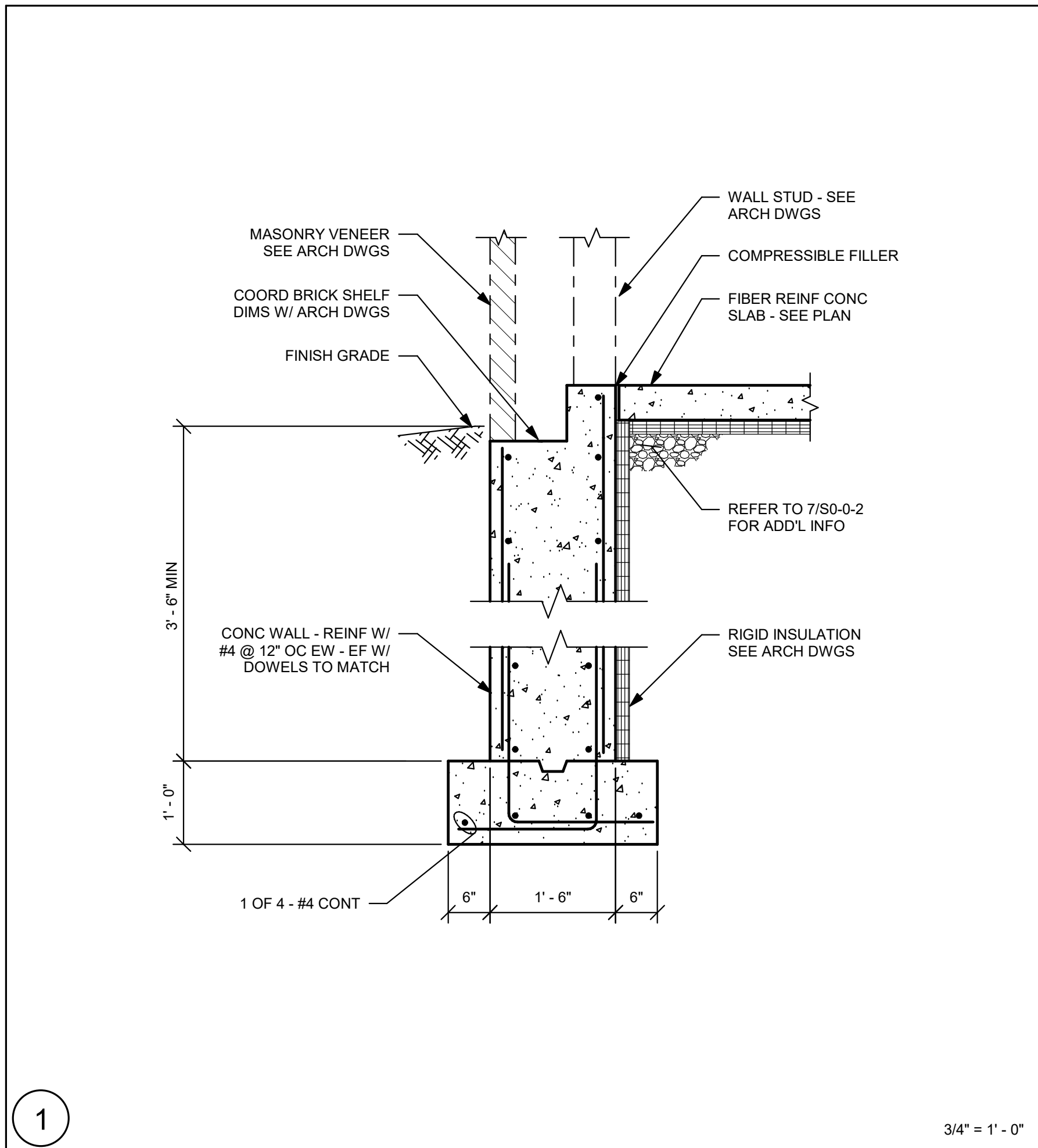


ROOF DUNNAGE FRAMING  
PART PLAN - AREA C



ROOF DUNNAGE FRAMING  
PART PLAN - AREA D





# DRA

Drumme Rosane Anderson, Inc.

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260 Charles Street  
Studio 300  
Waltham, MA 02453

Planning Architecture Interior

Tel: 877.261.1100  
www.dra.com

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### EDG

Engineers Design Group Inc.

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Malden, MA 02148  
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EDG@EDGINC.COM

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MSBA 60% CD Submission

01/13/2023

KEY PLAN

PROJECT NORTH

MAGNETIC NORTH

## SECTIONS

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

Job No.: 20202

Drawn By: EDG

Date: 01/13/2023

**S2-0-1**

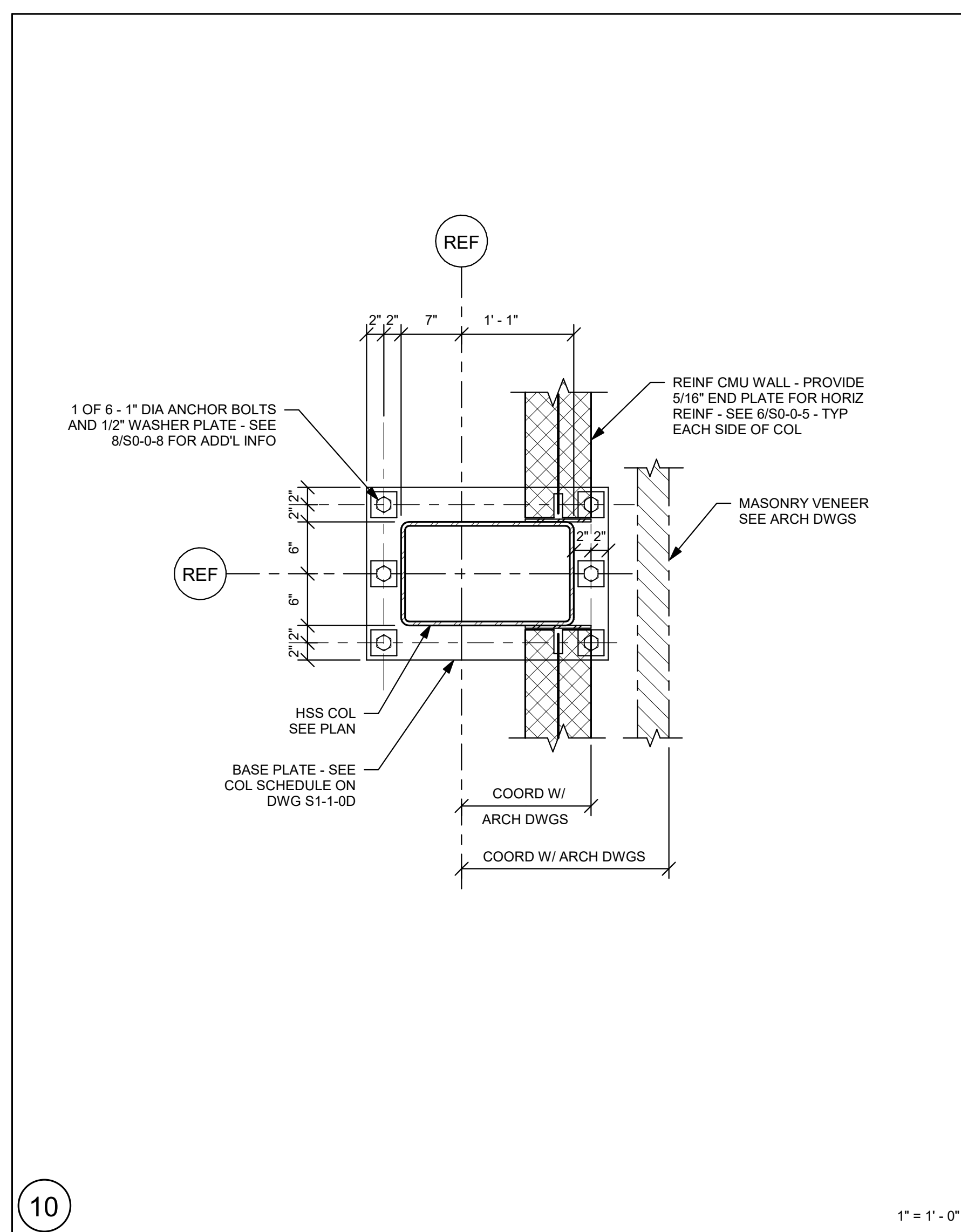
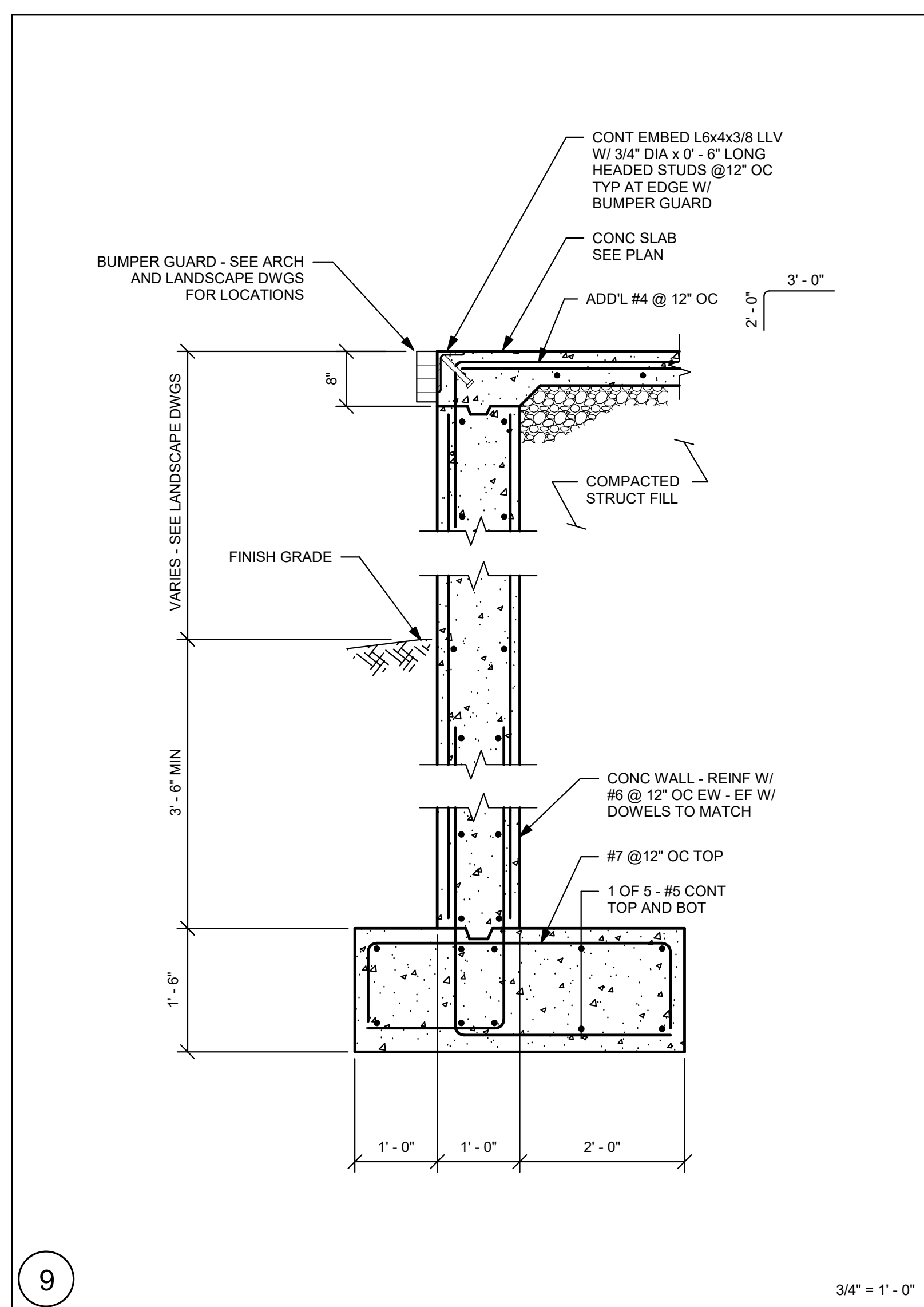
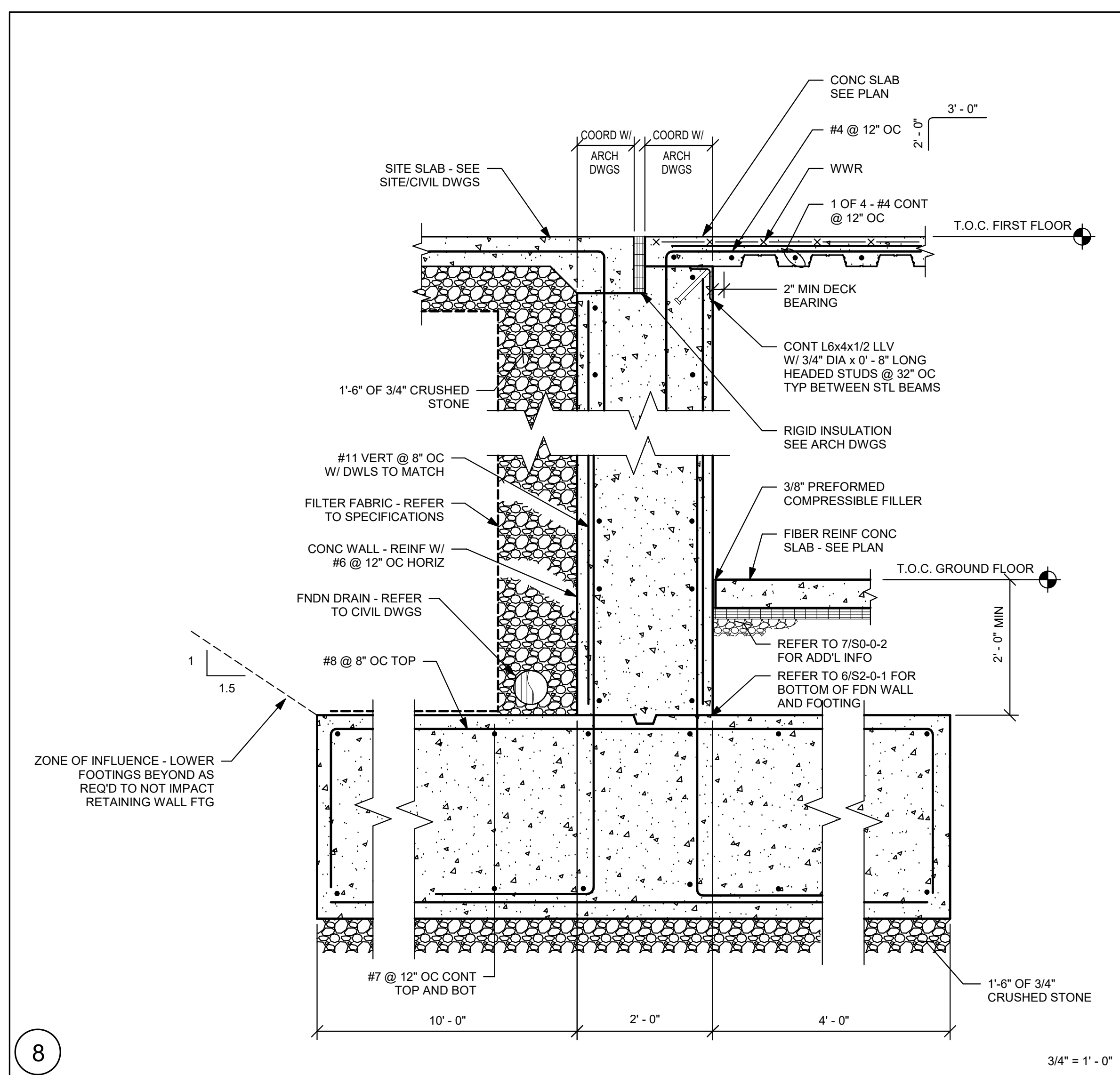
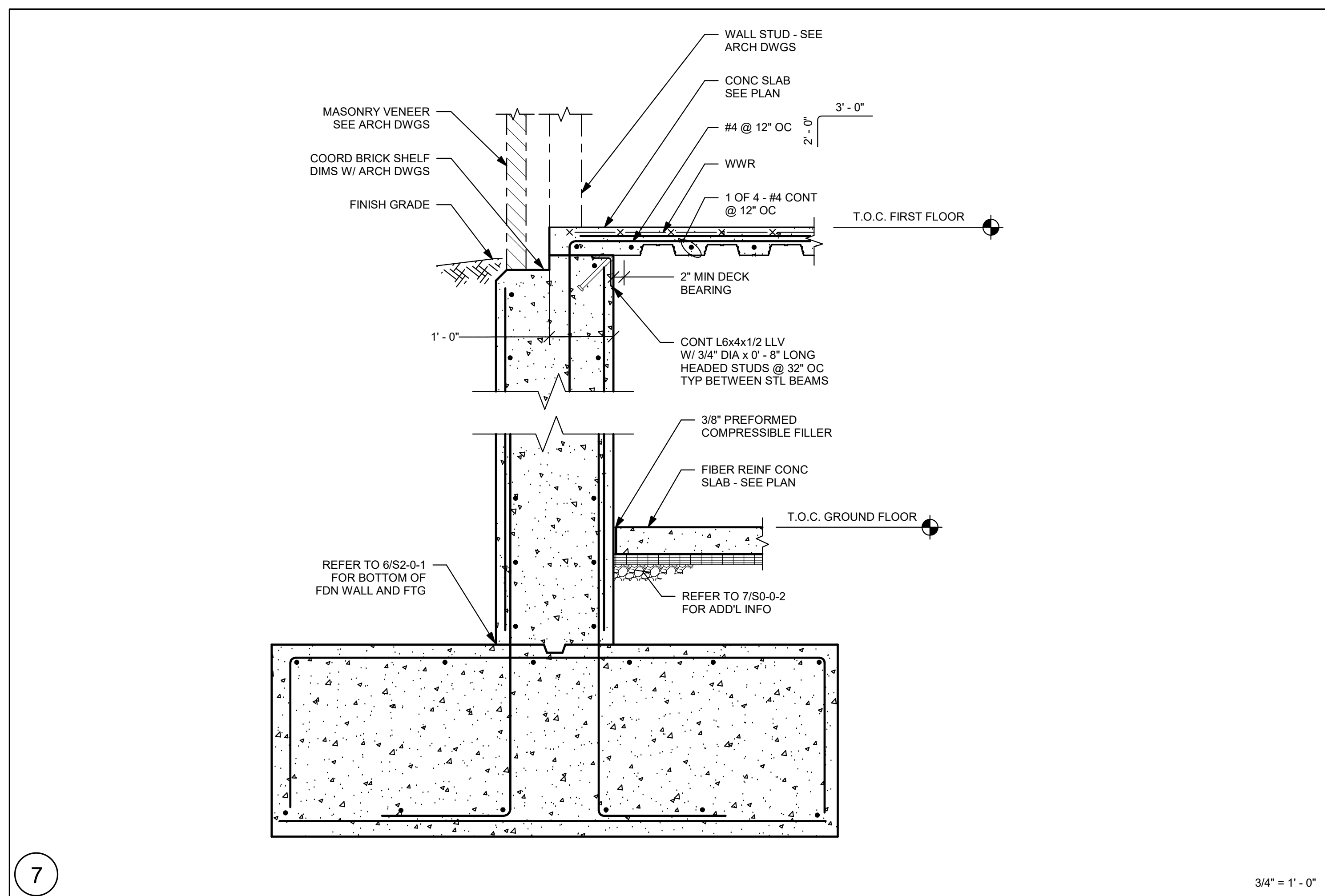
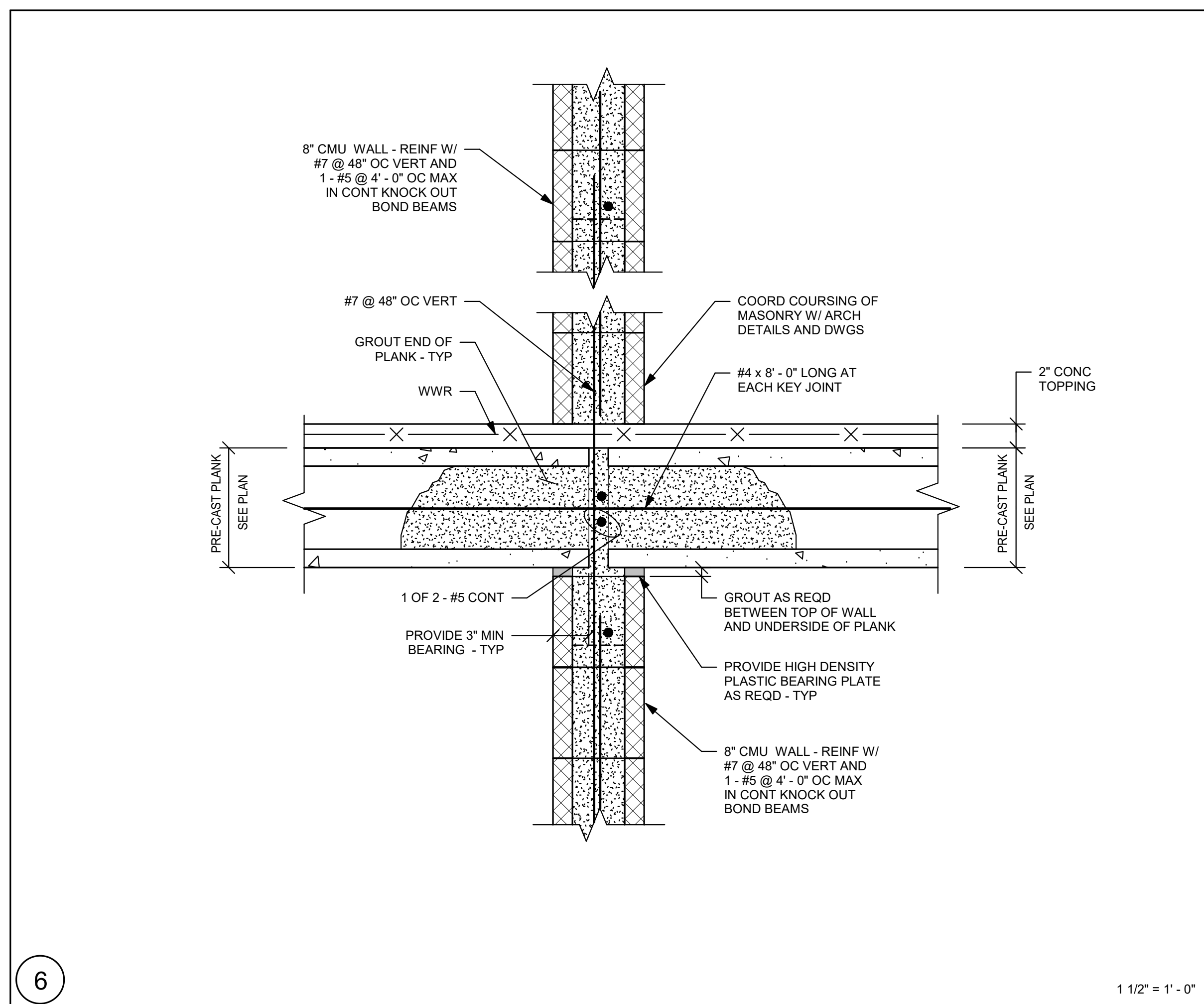
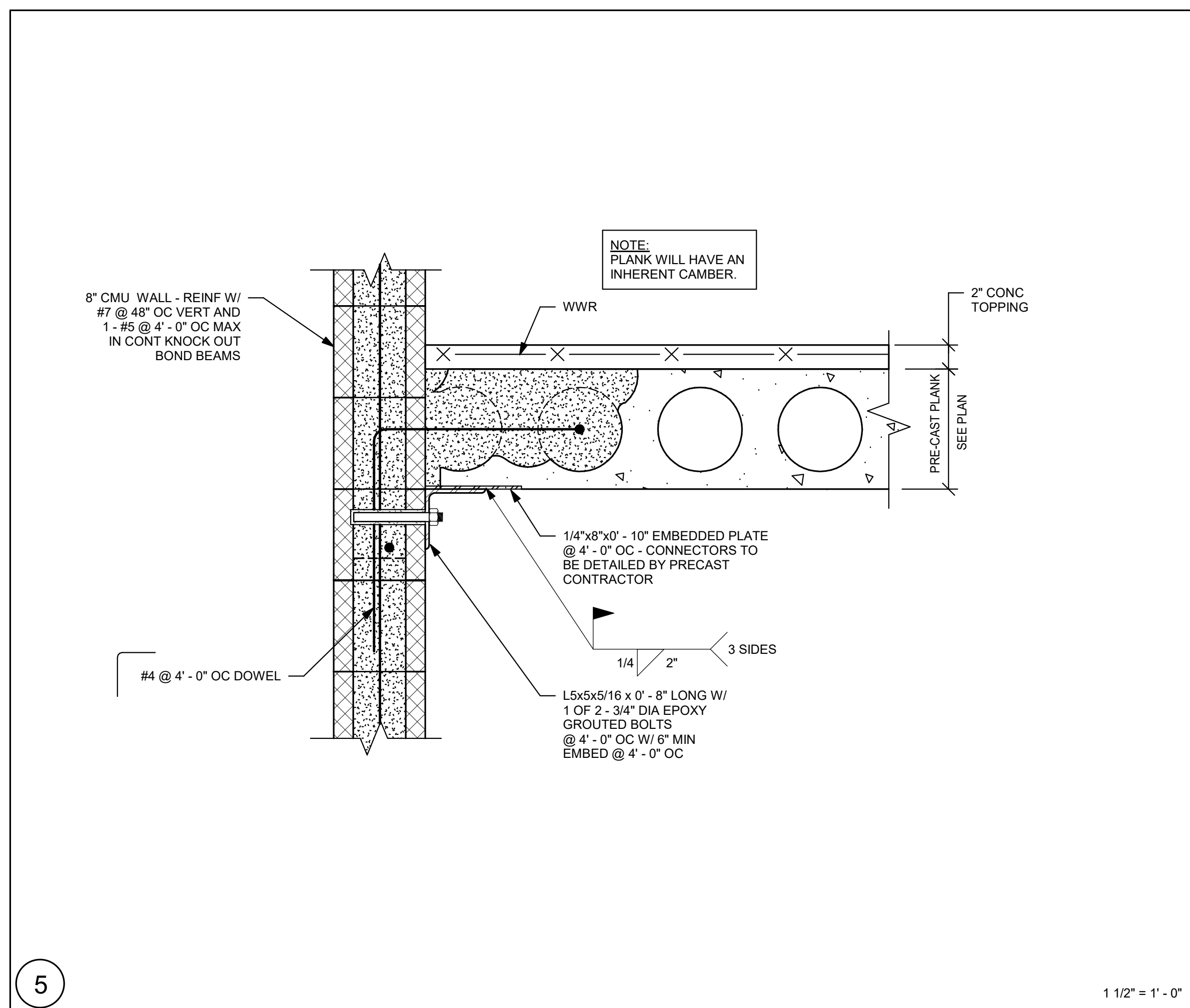
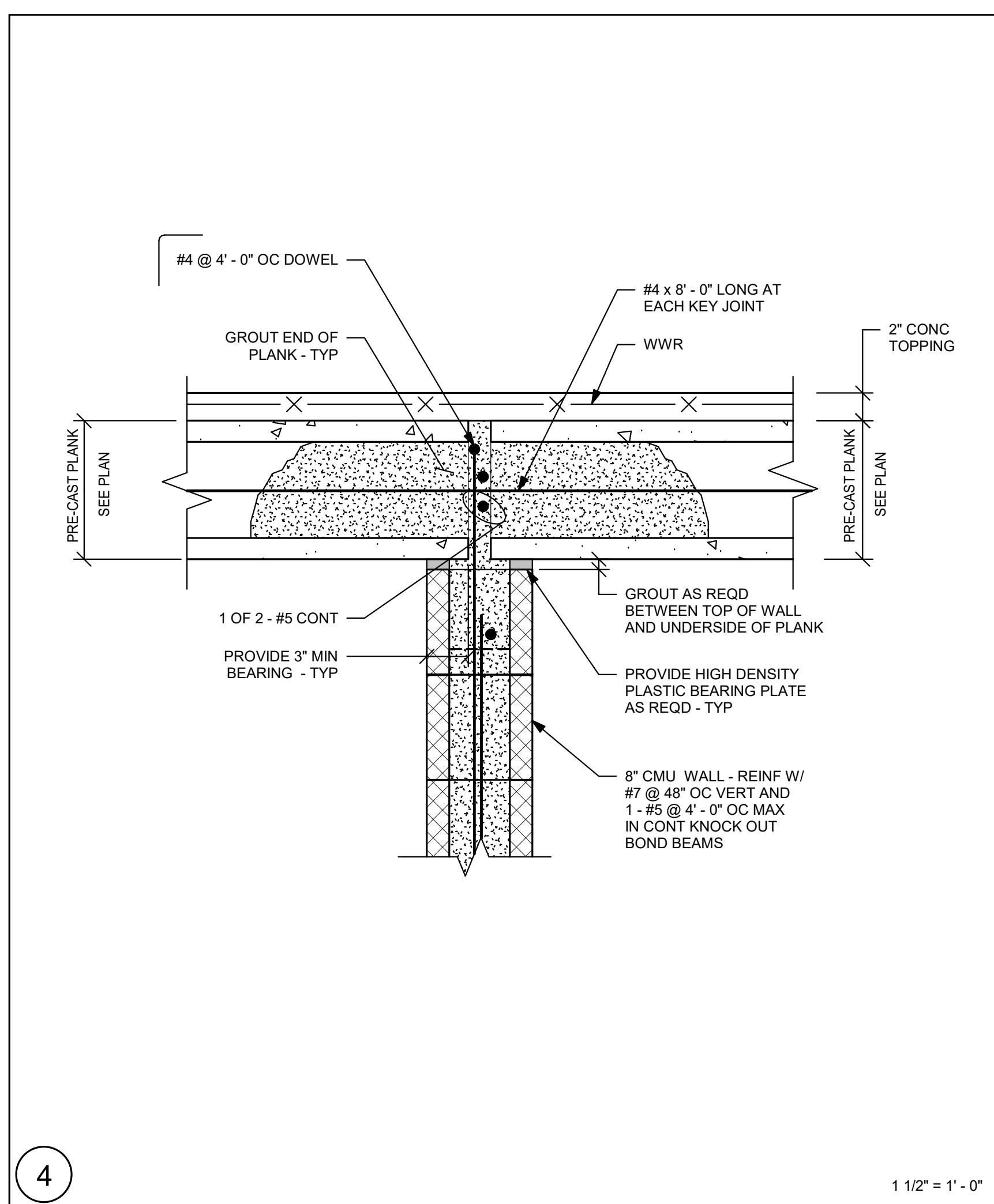
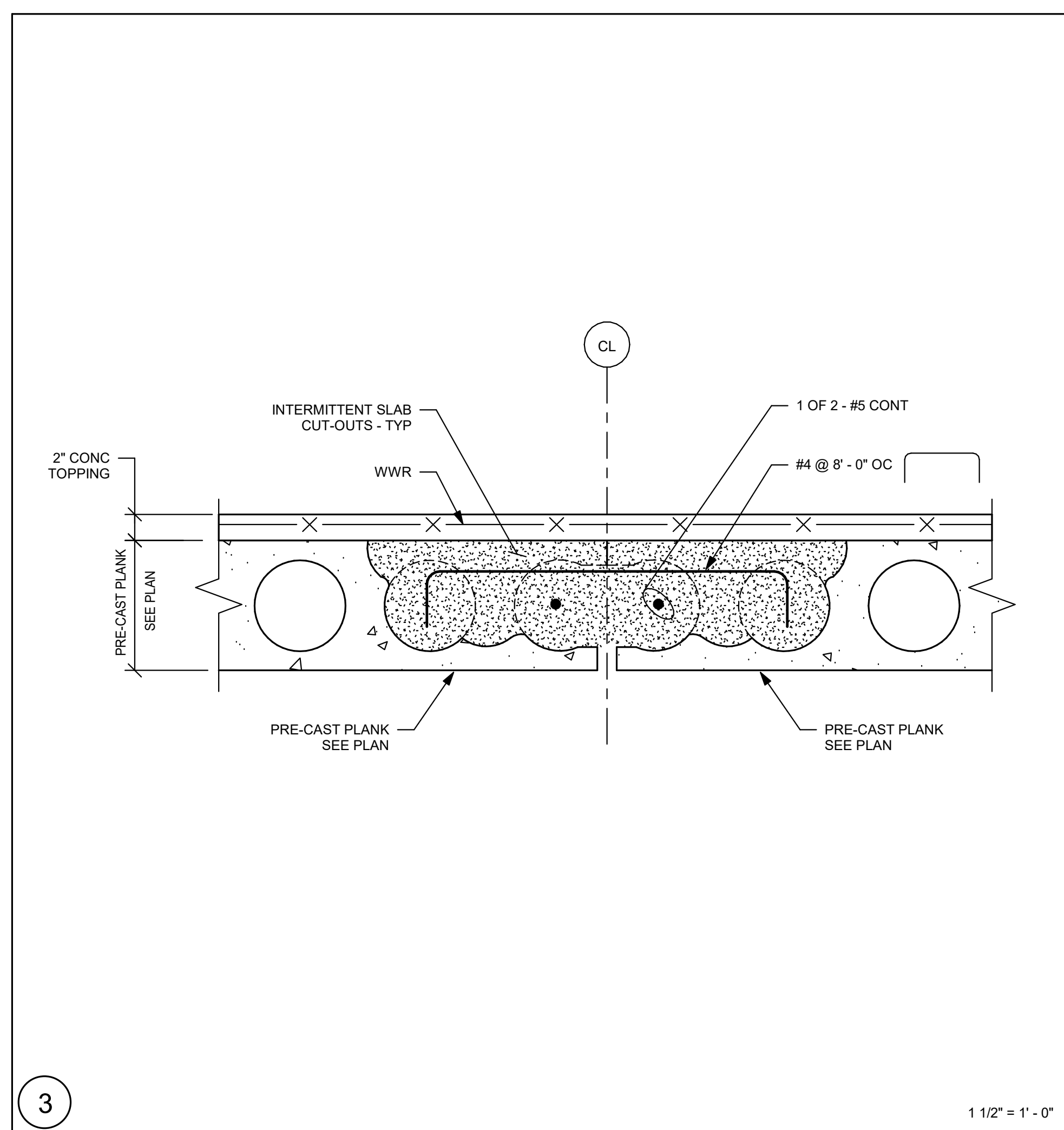
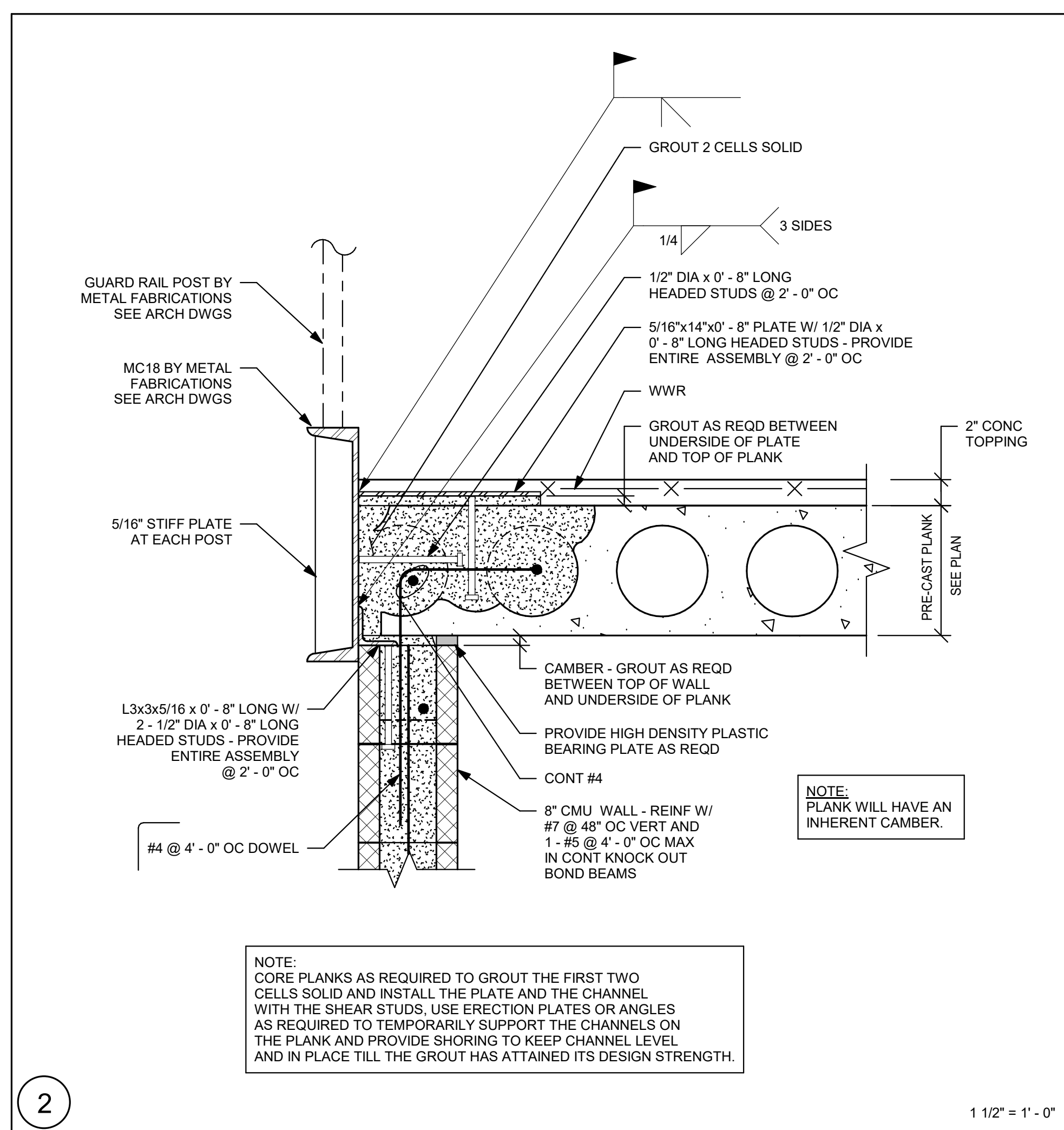
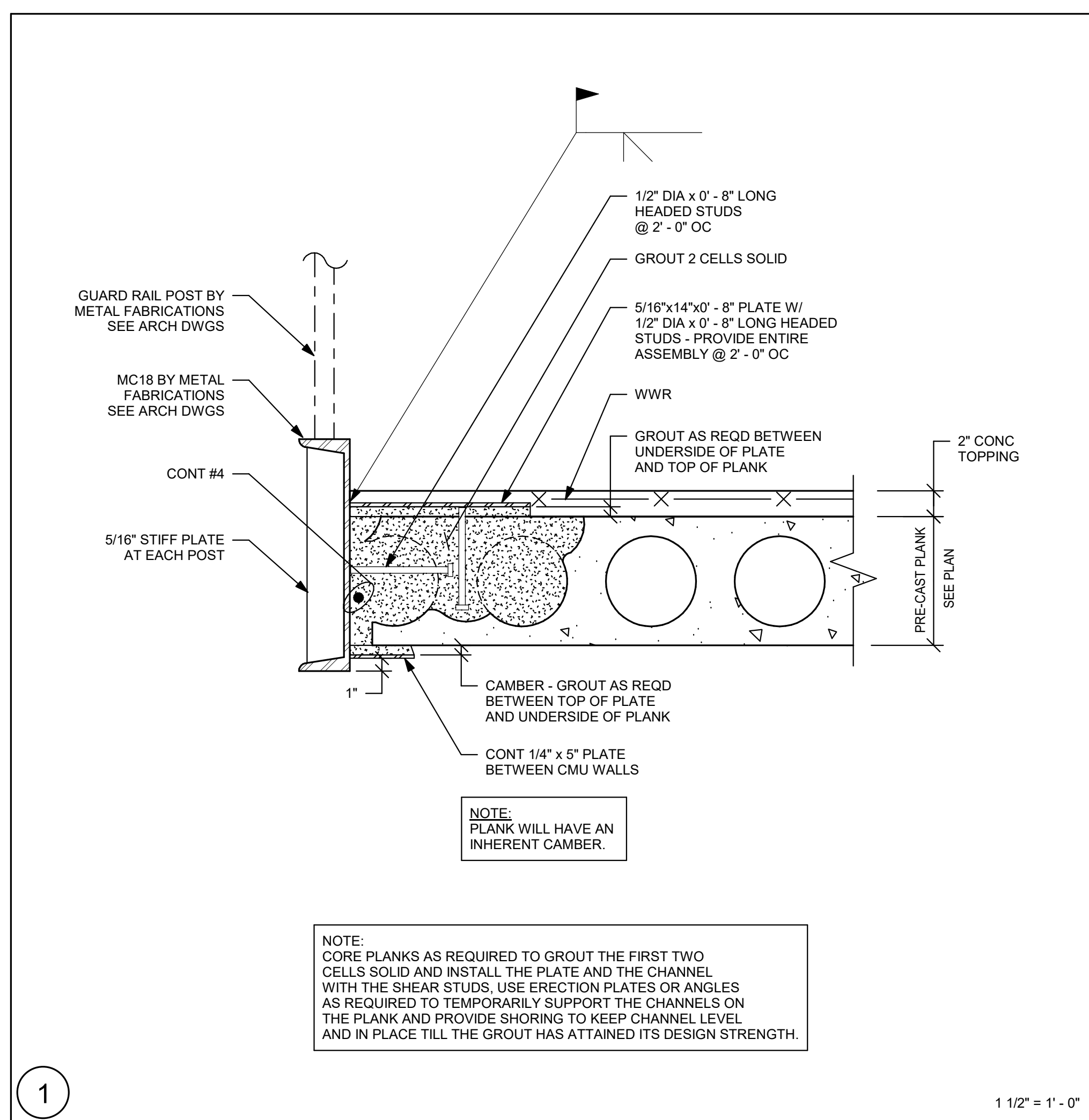


# NORTHEAST METRO TECH

100 Hemlock Rd,  
Wakefield, MA 01880



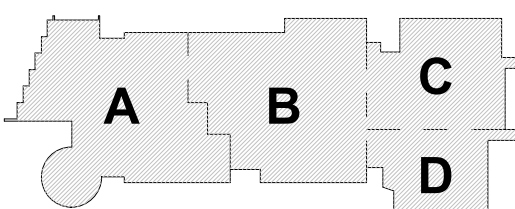
**Engineers Design Group Inc.**  
Structural Engineers  
389 Main Street, Suite 401  
Malden, MA 02148  
(781)396-9007  
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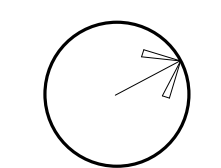
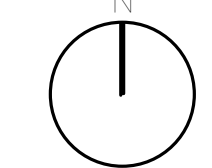
01/13/2023



### KEY PLAN

PROJECT NORT

MAGNETIC NORTH



## SECTIONS

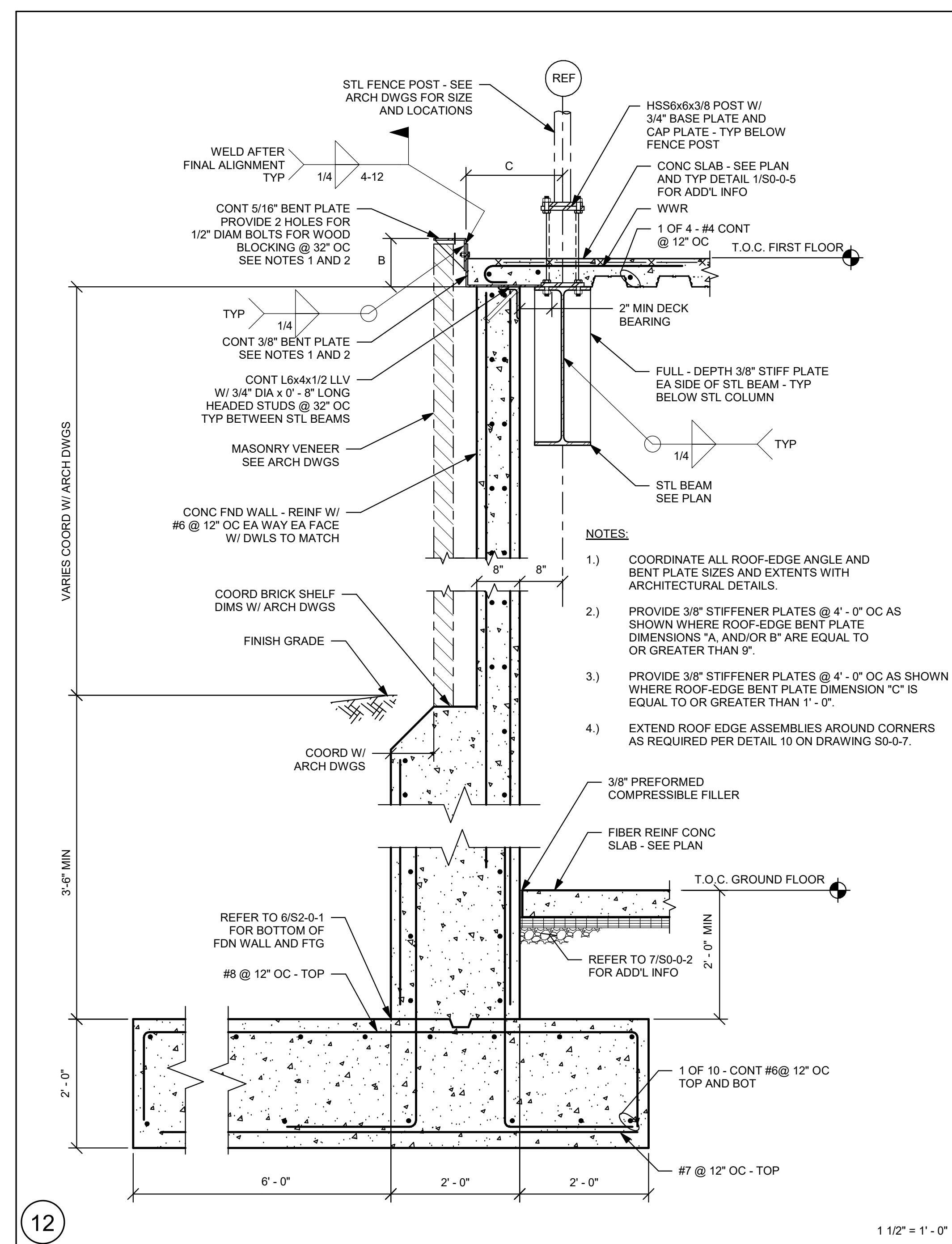
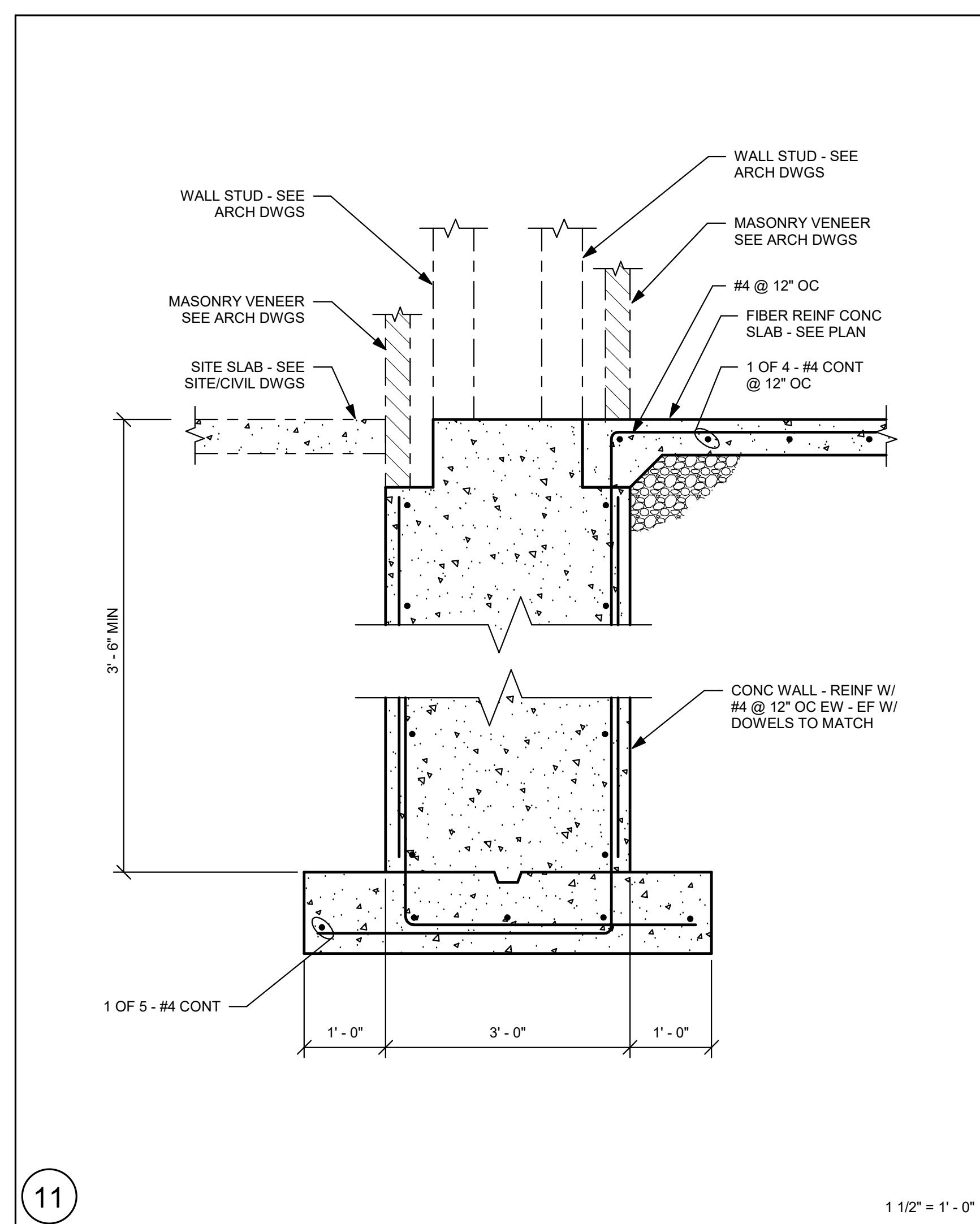
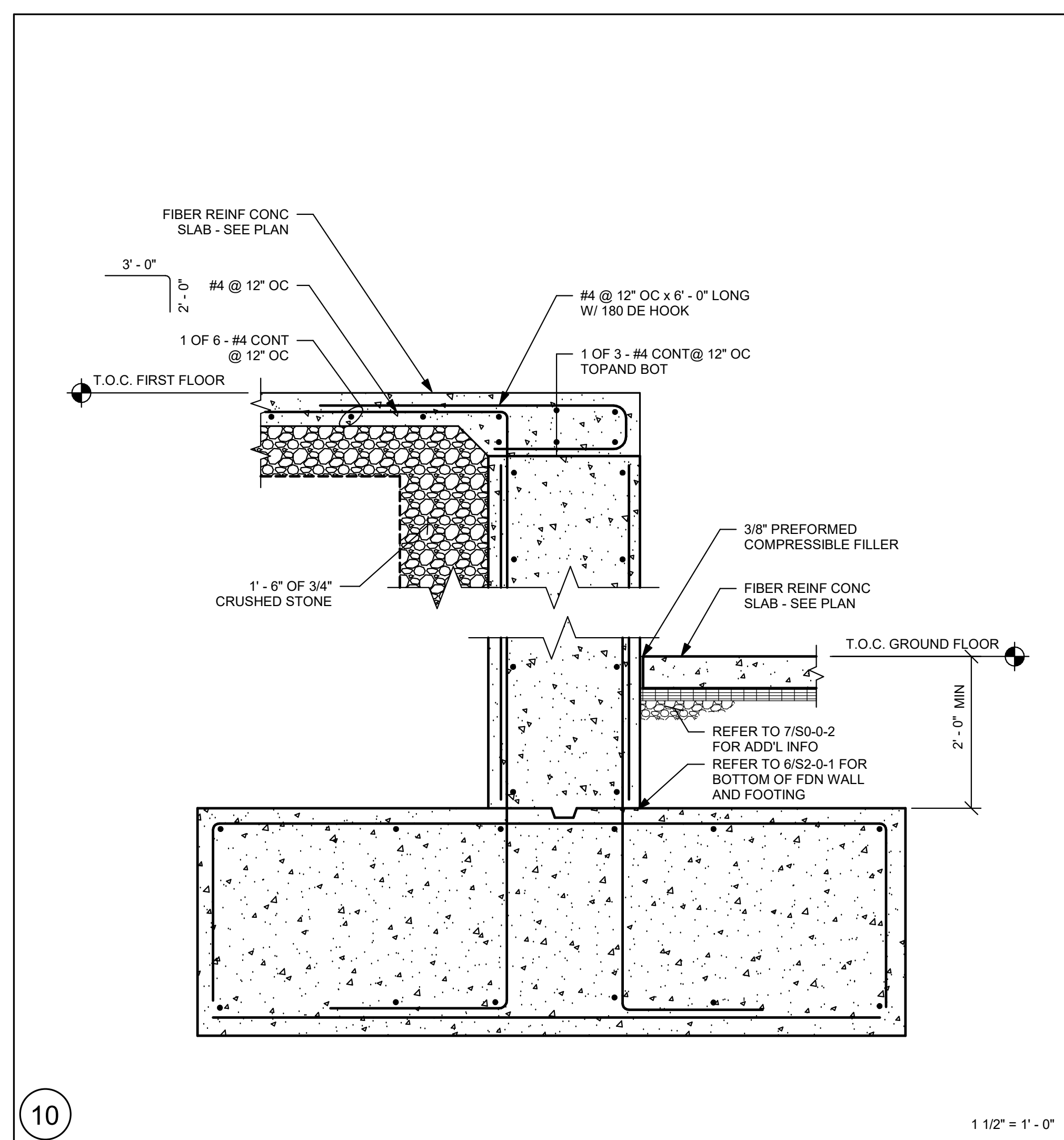
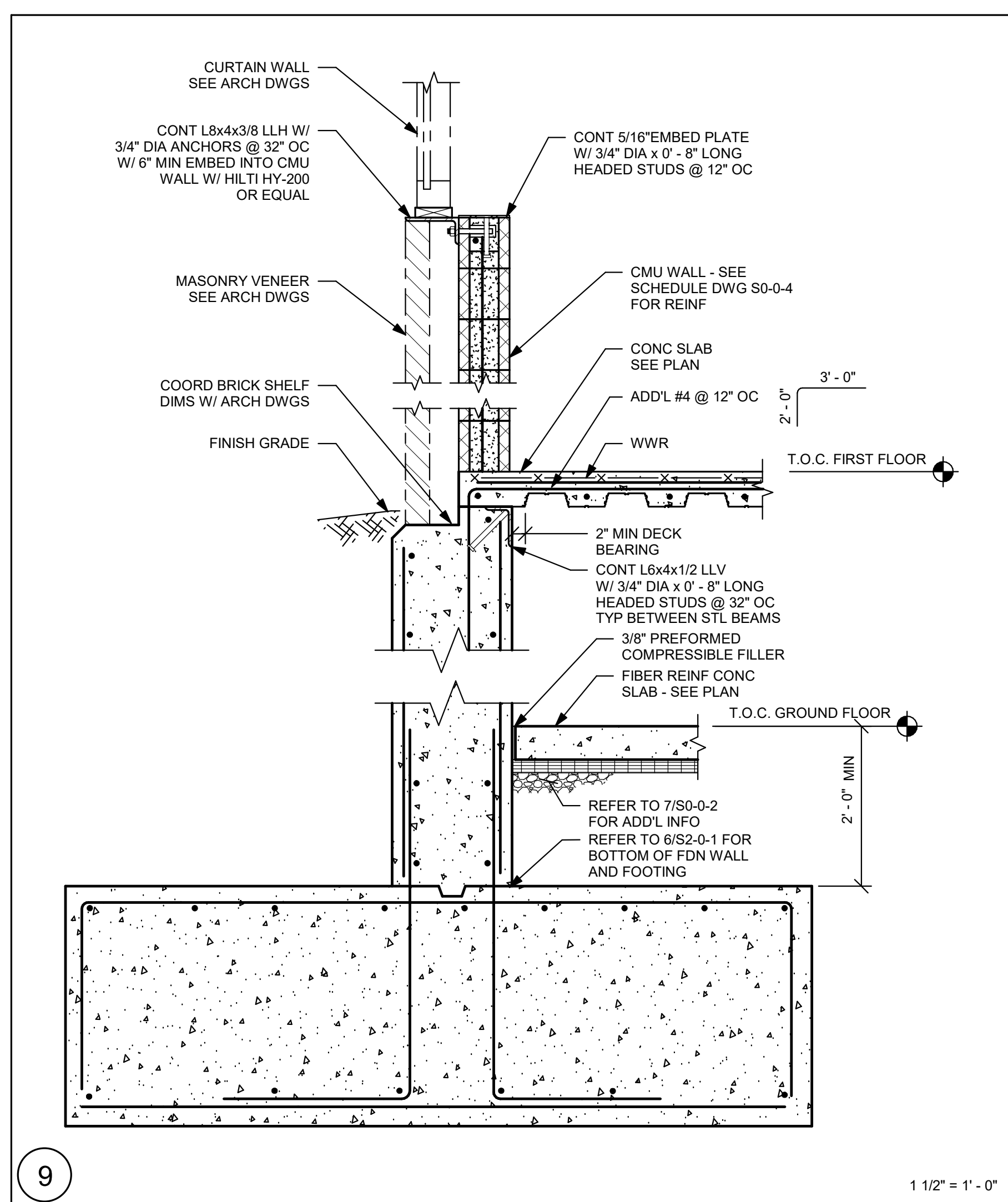
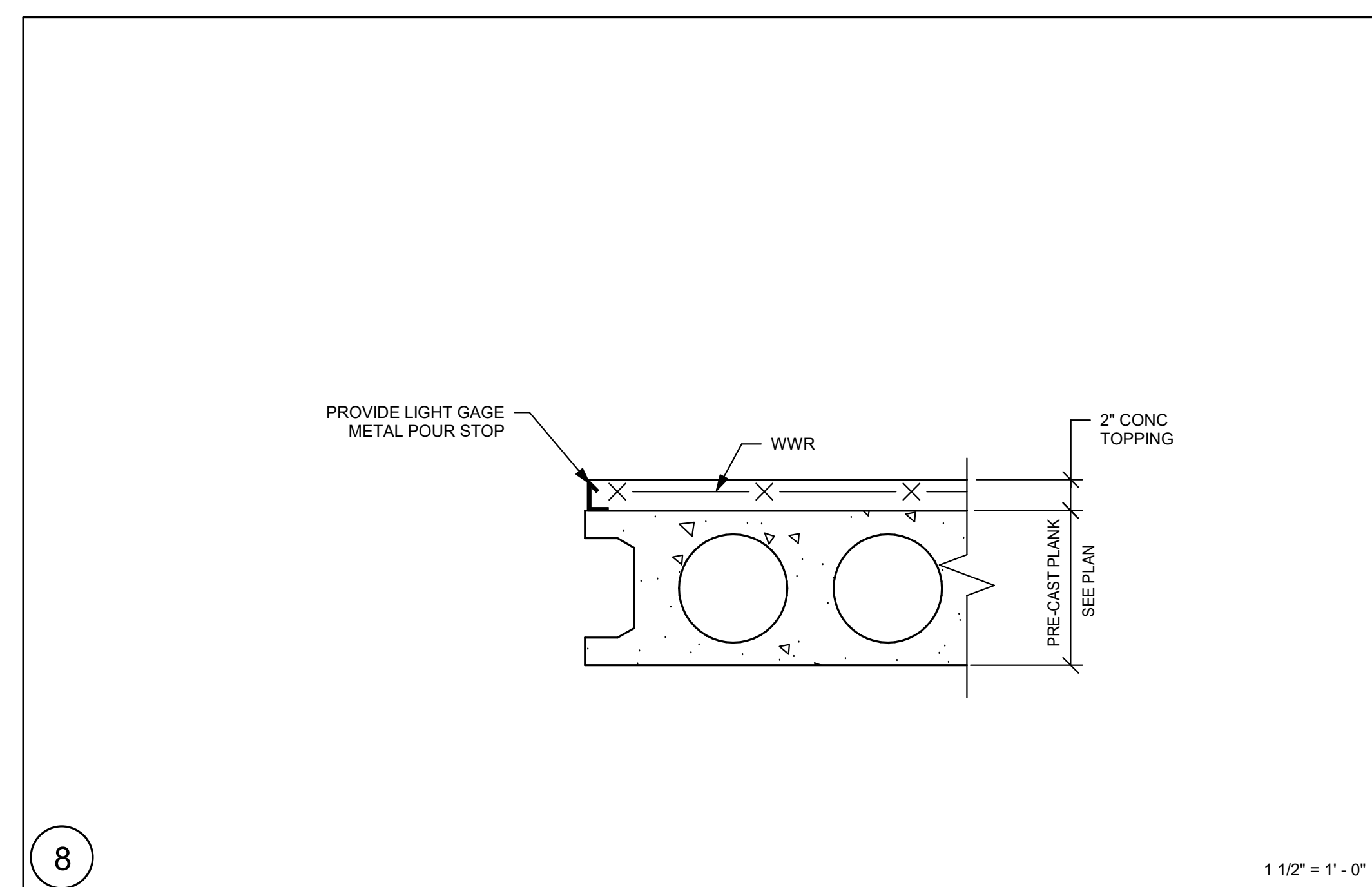
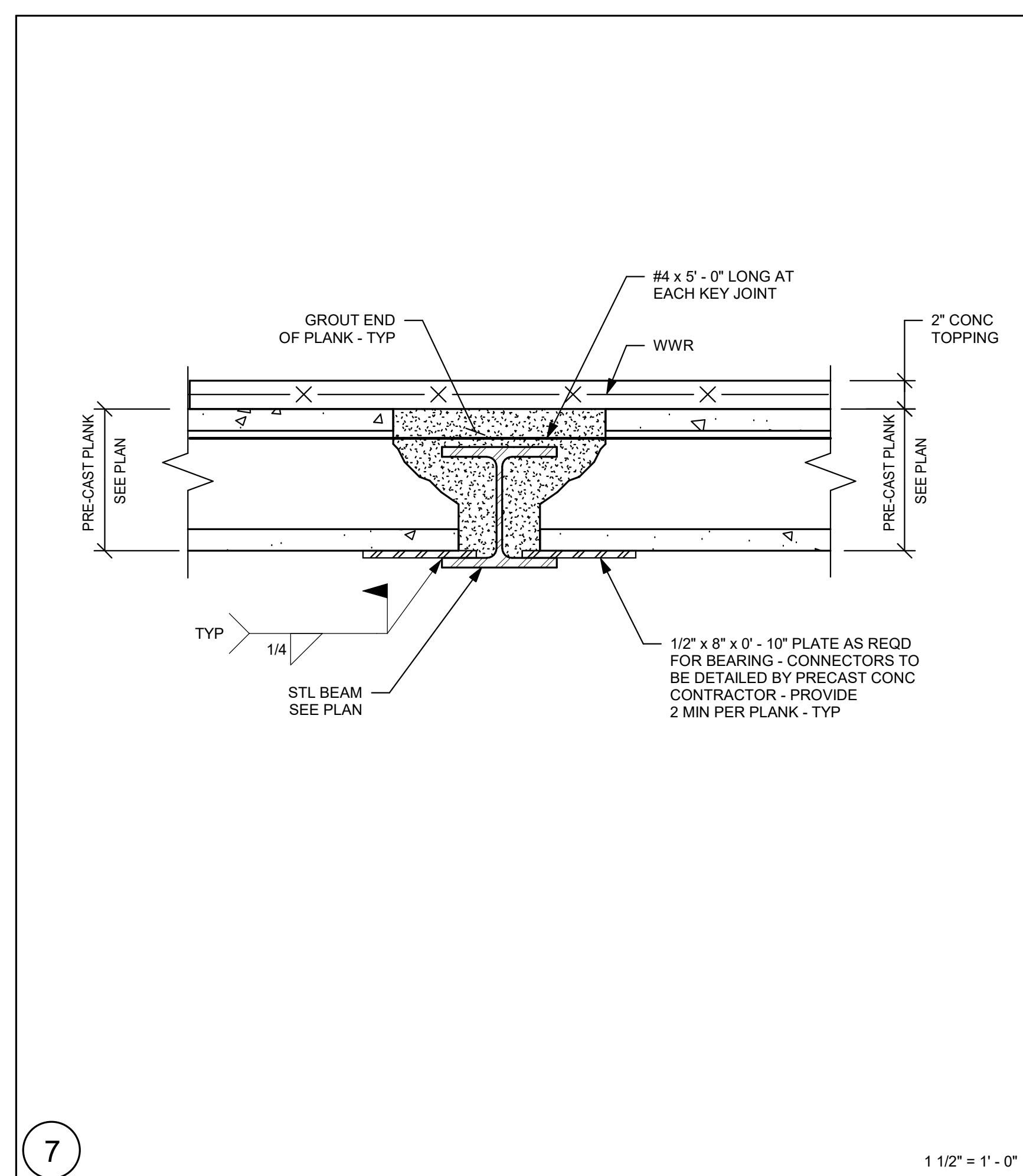
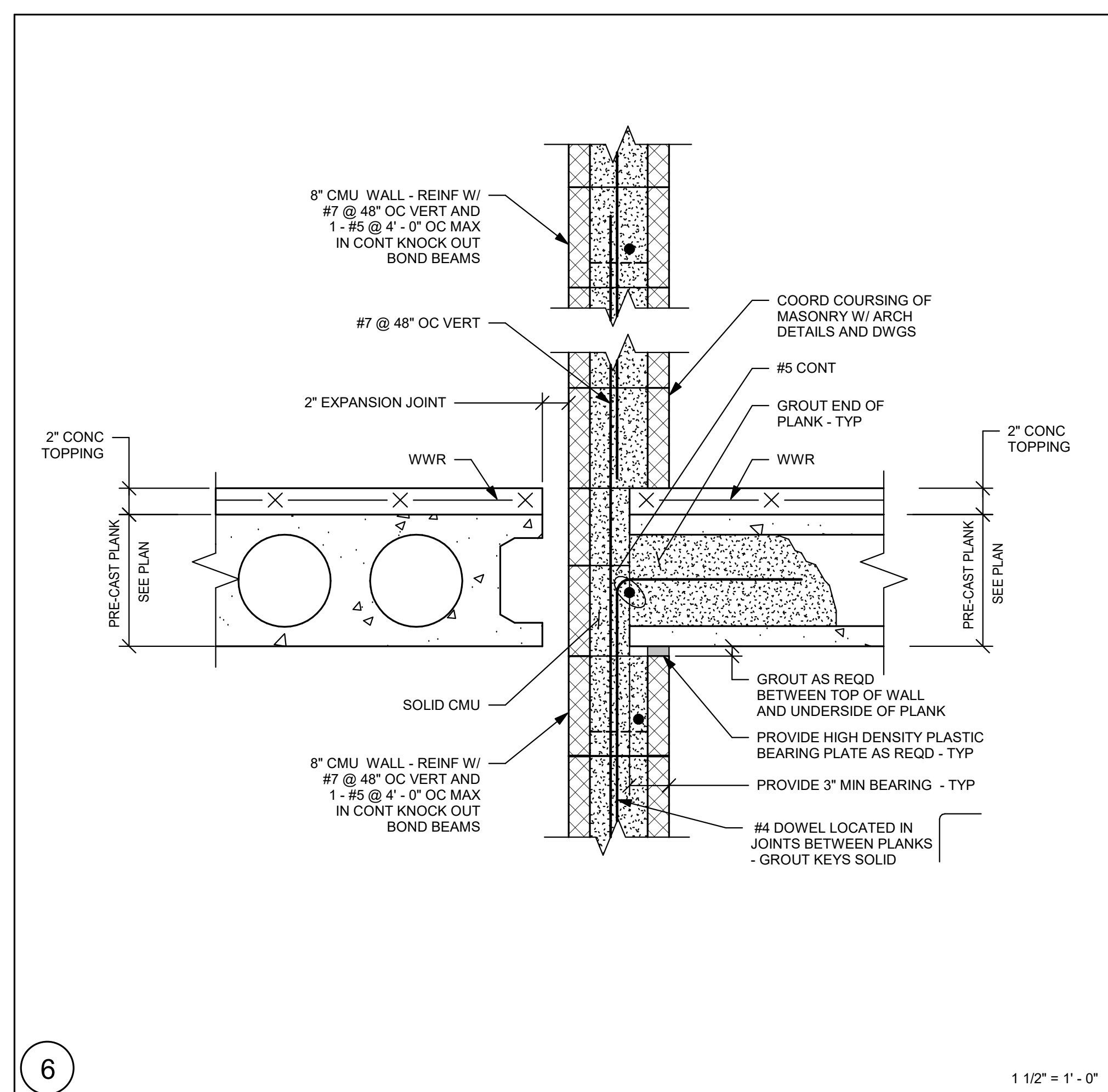
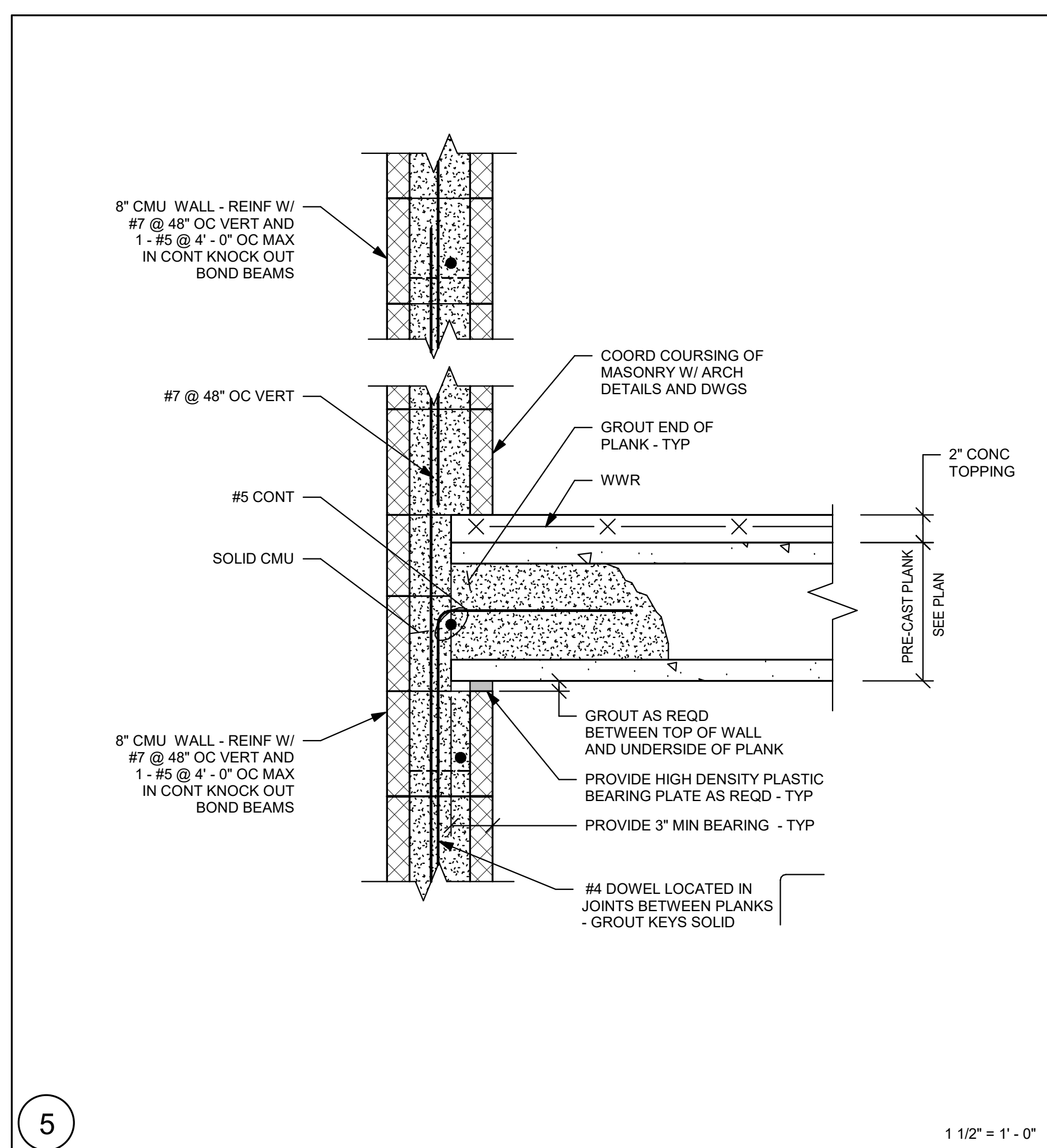
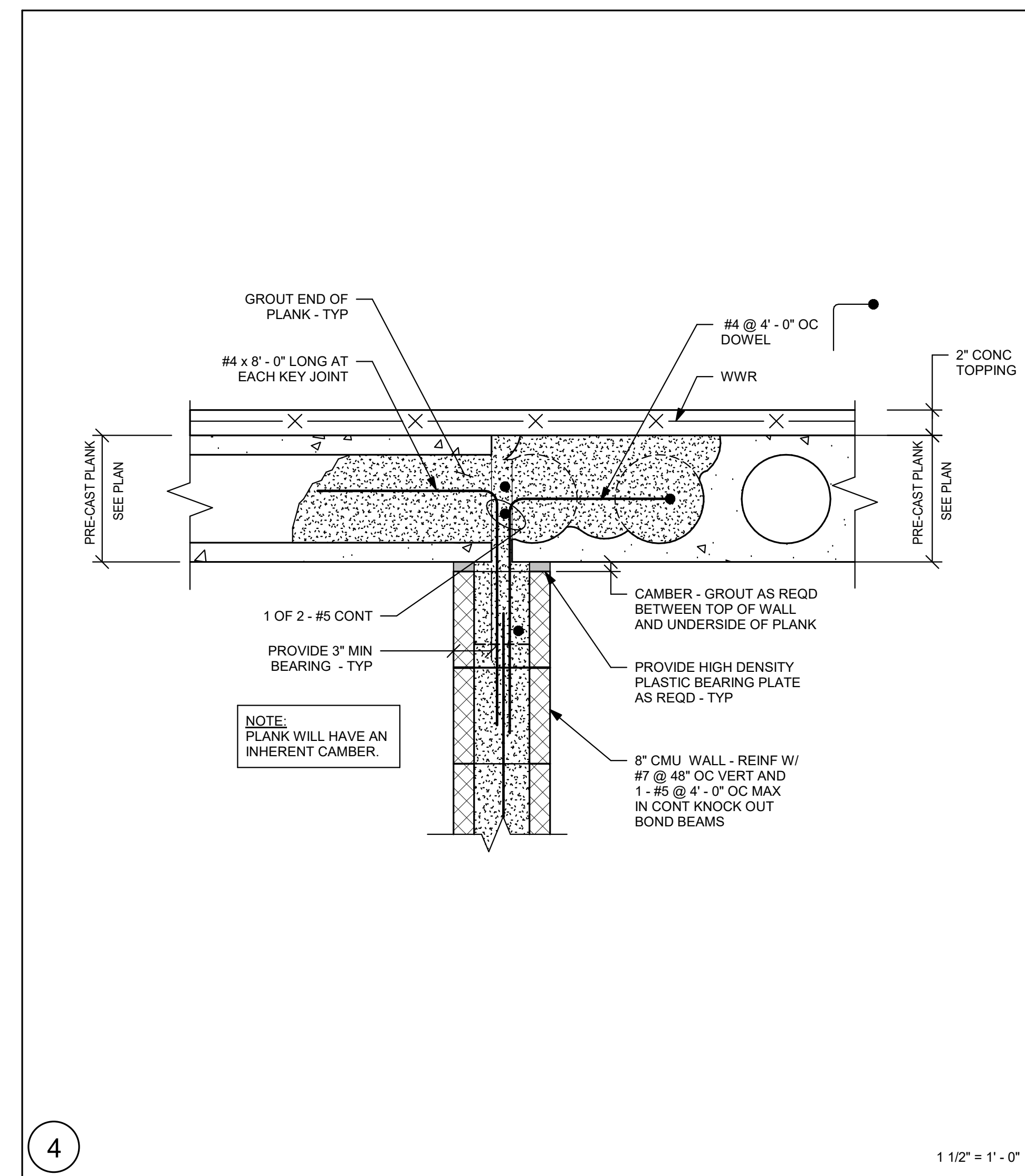
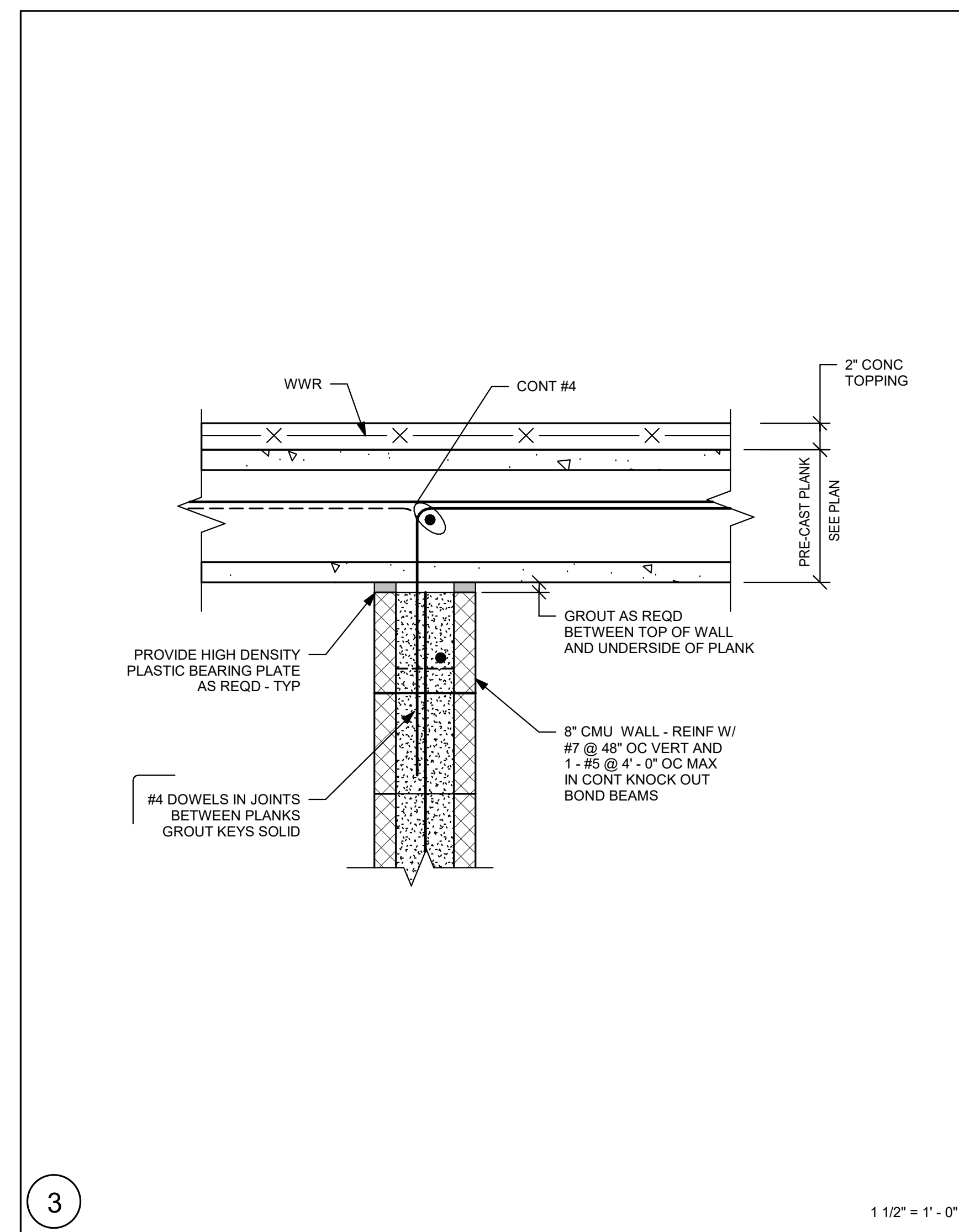
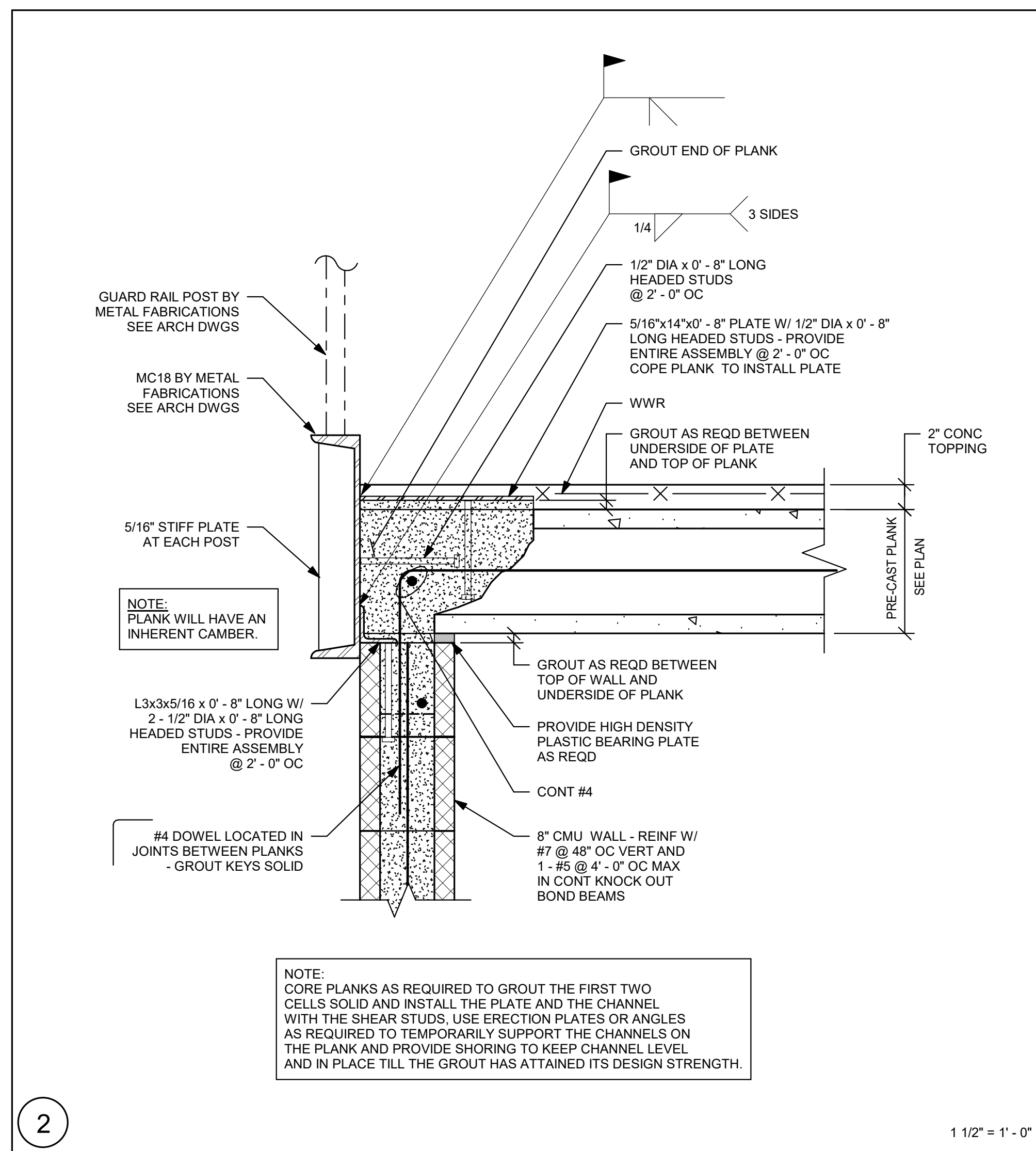
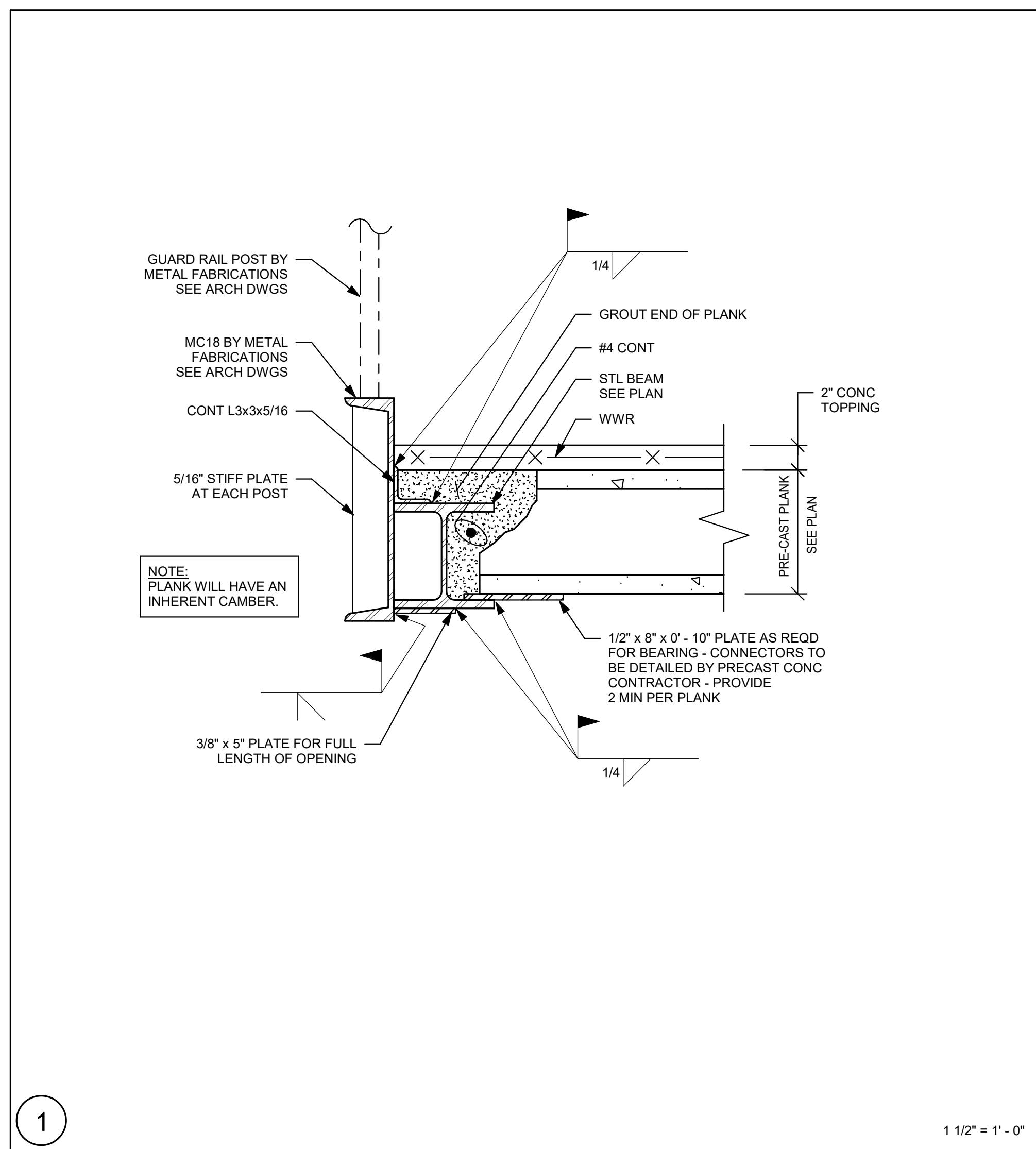
Scale: As indicated  
Job No.: 20202

Drawn By: EDC

Stain(s): EDG

**S2-0-2**





**DRA**

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PROJECT NORTH

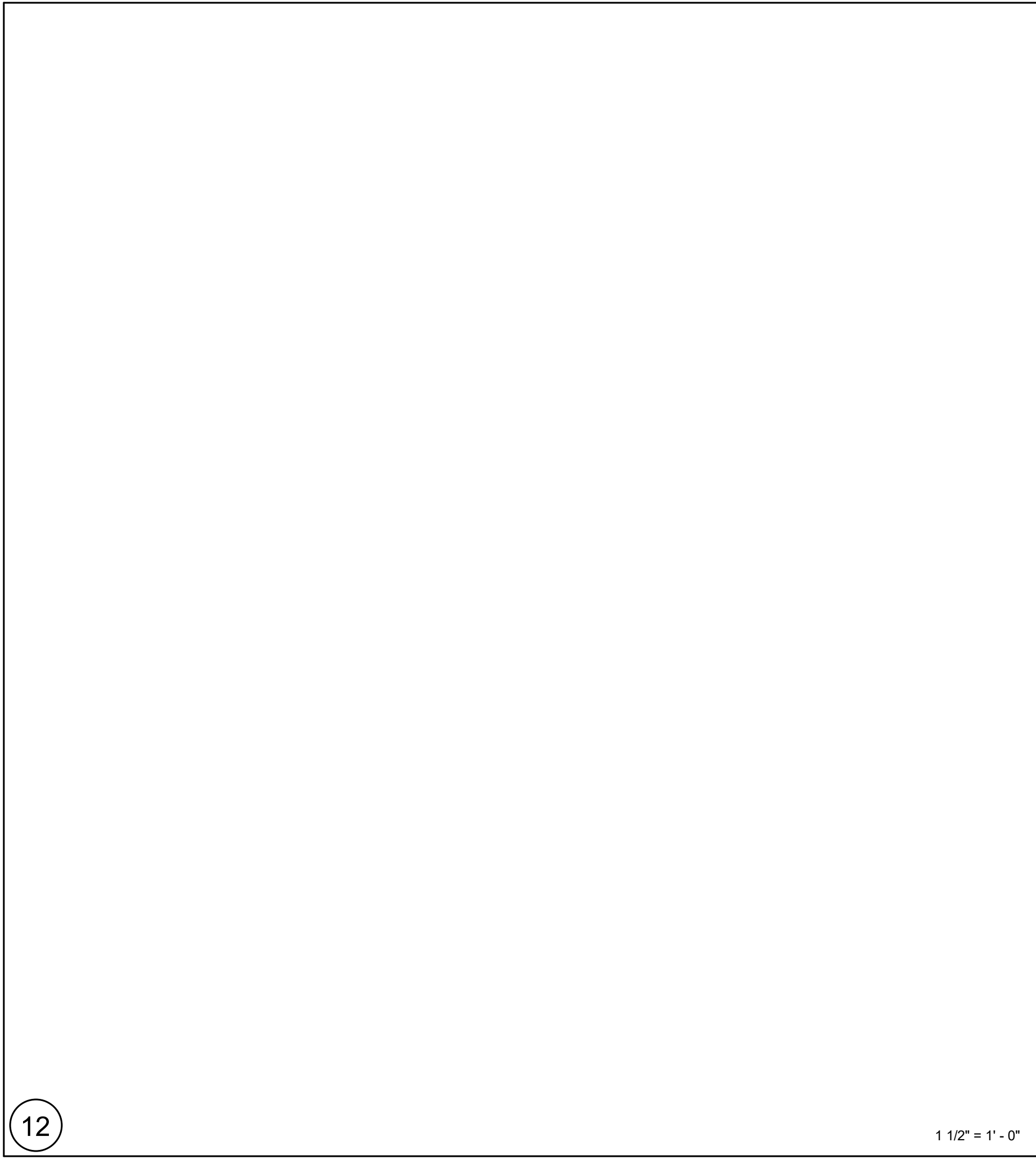
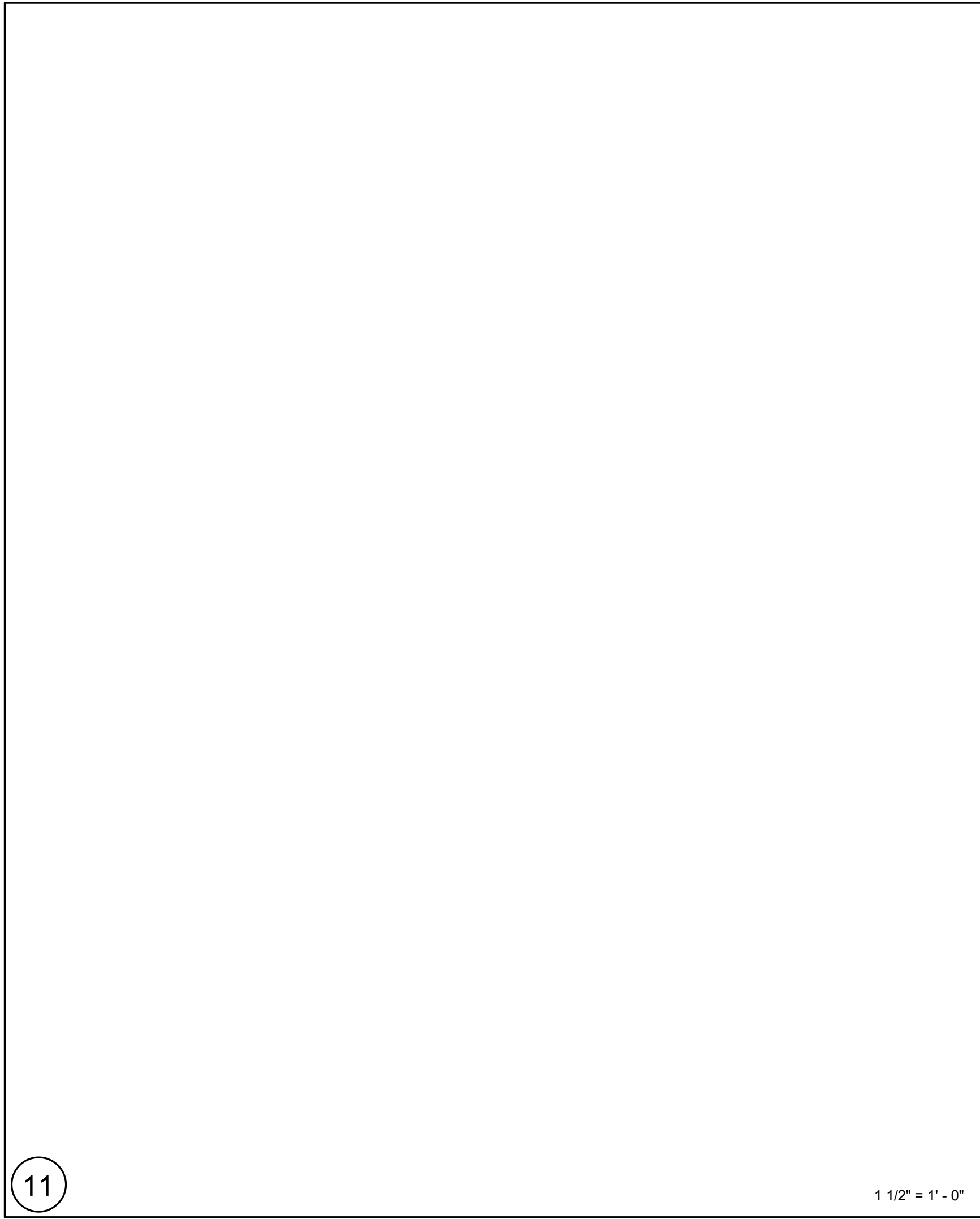
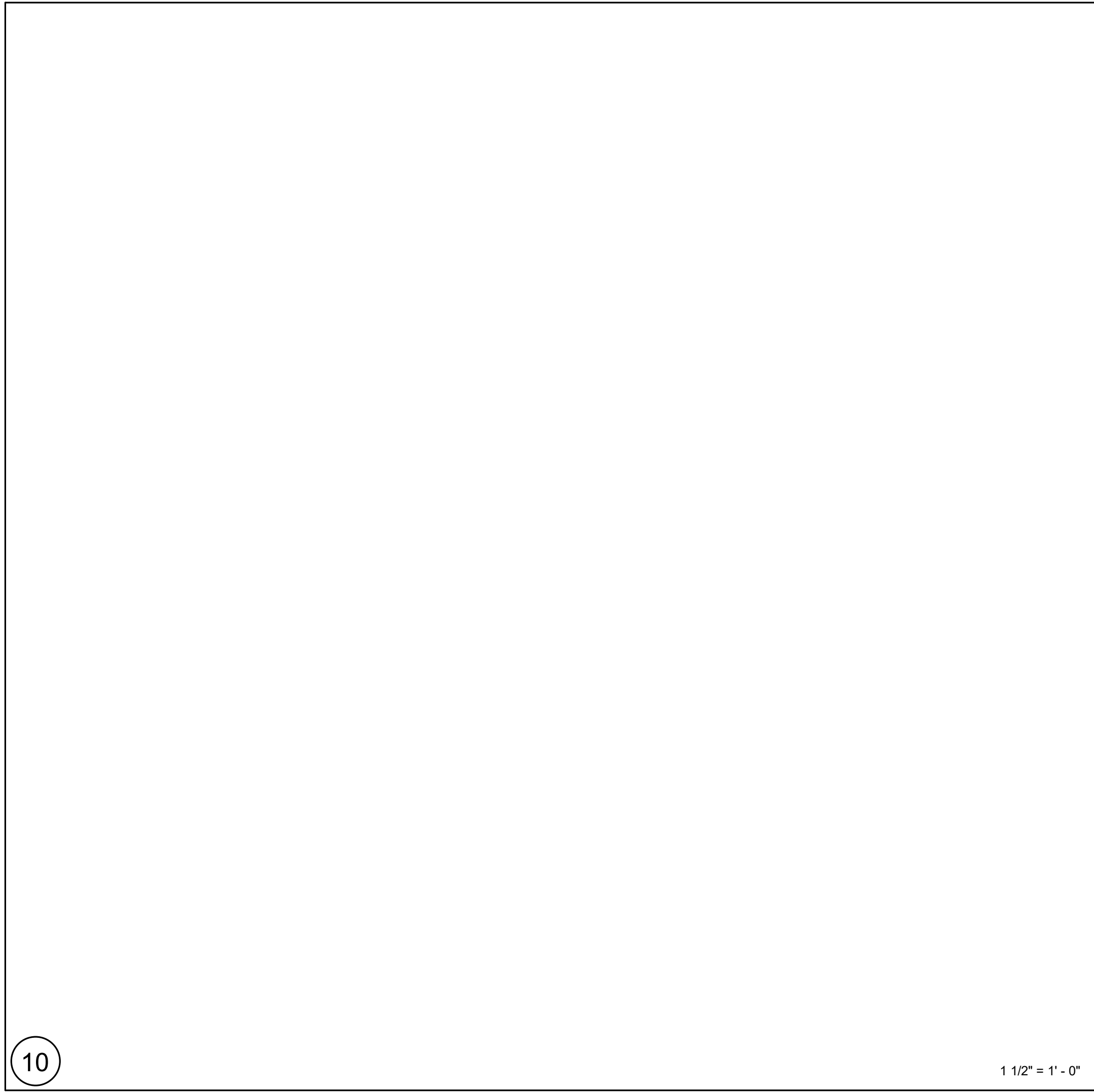
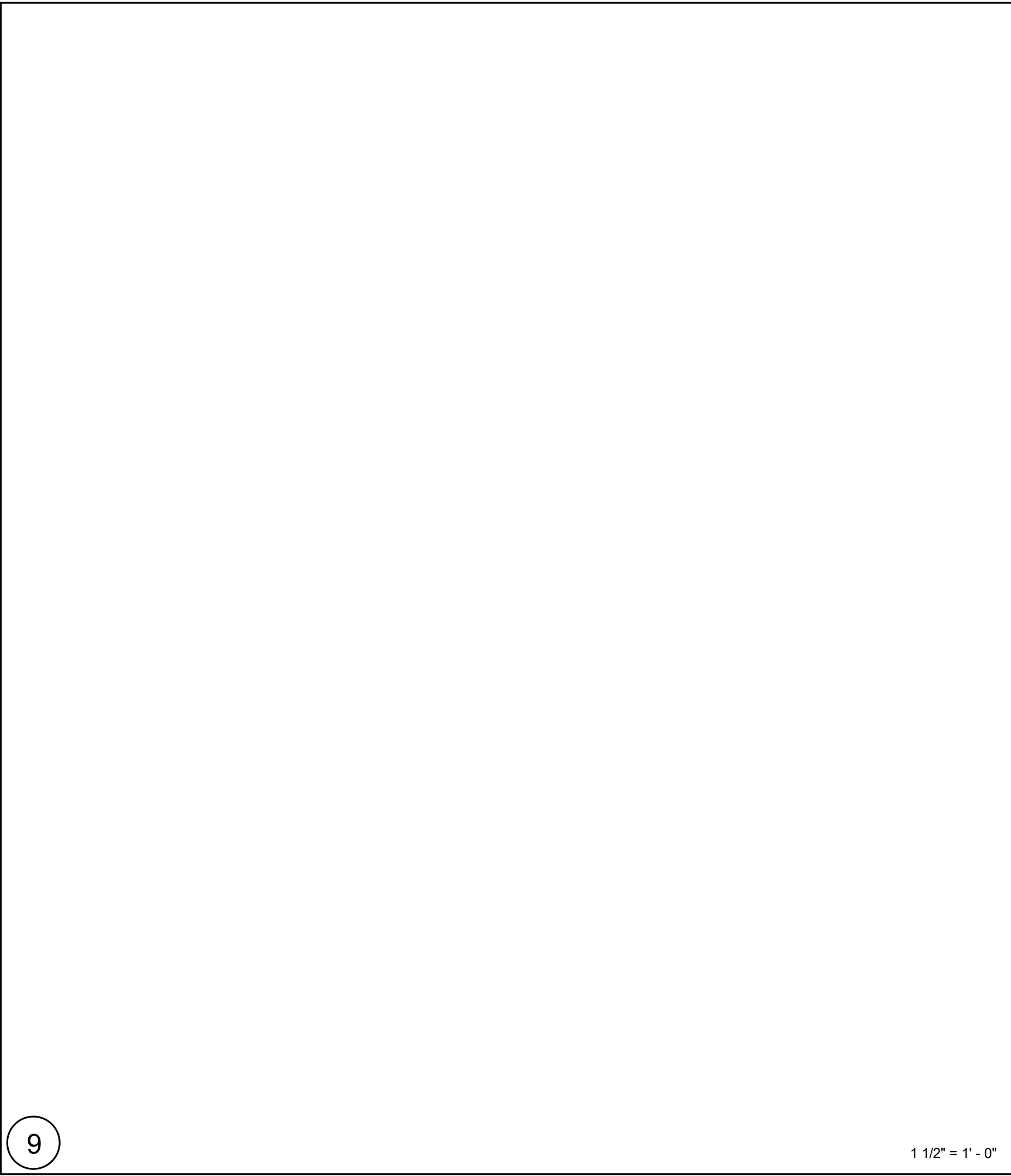
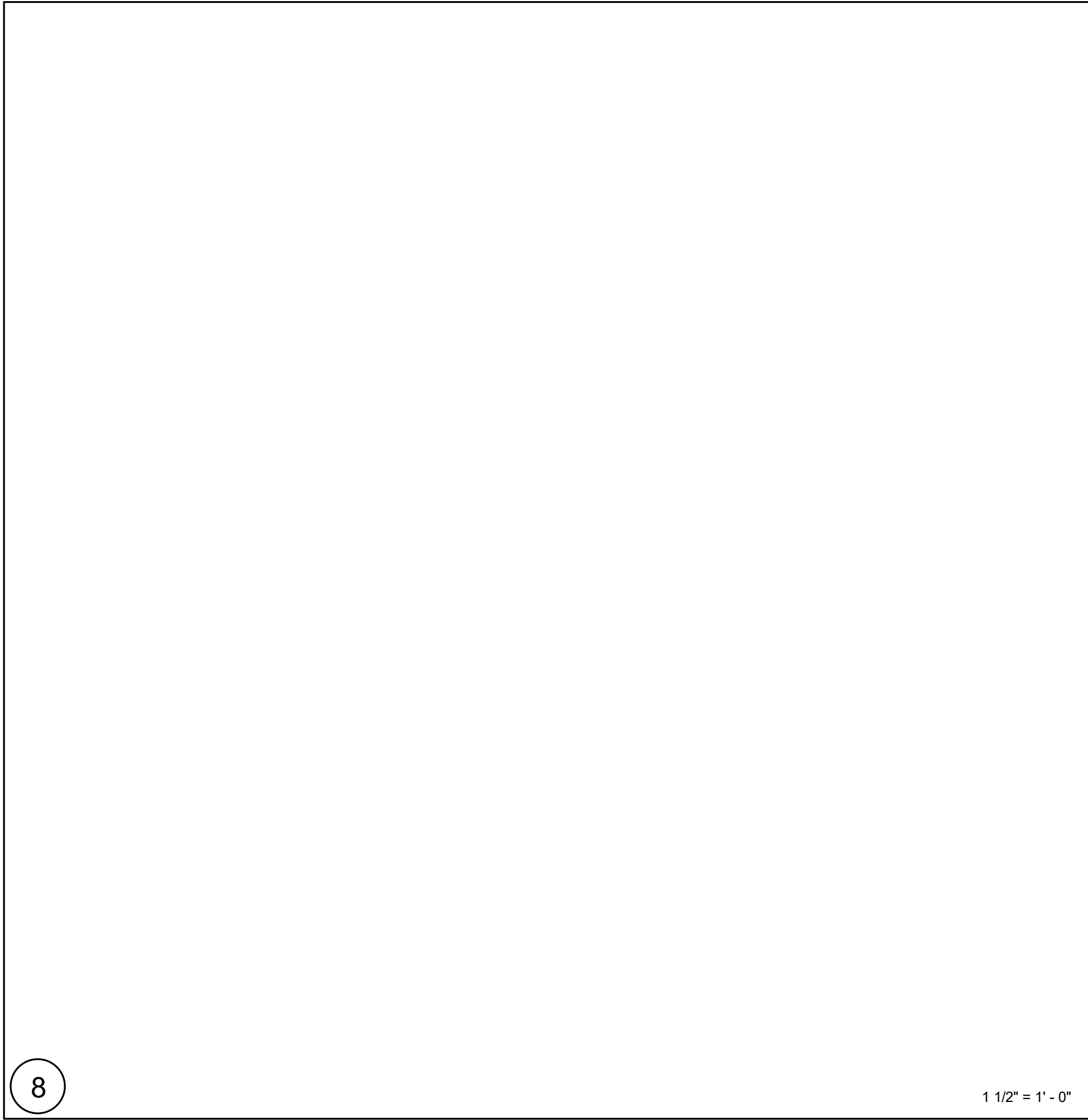
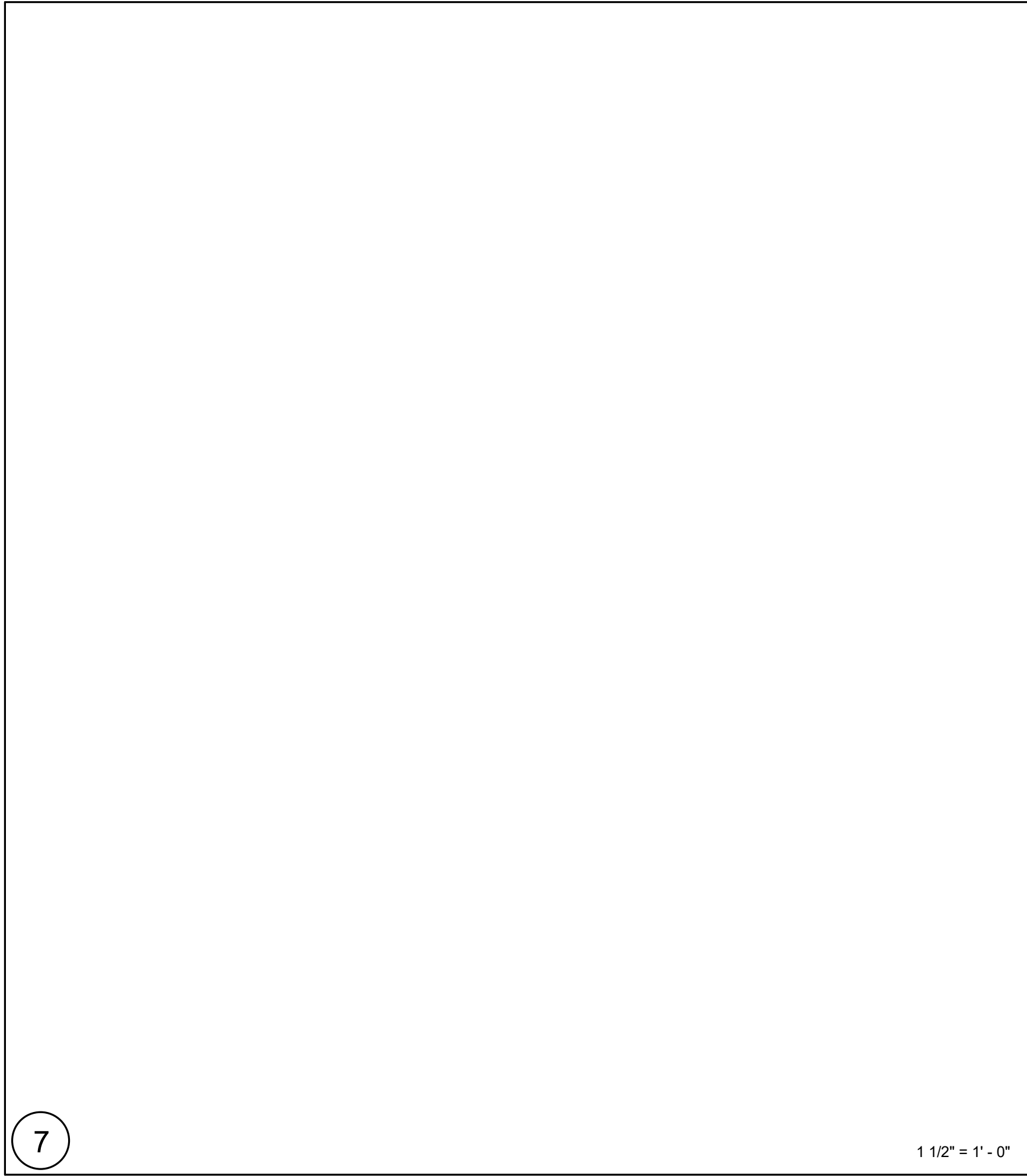
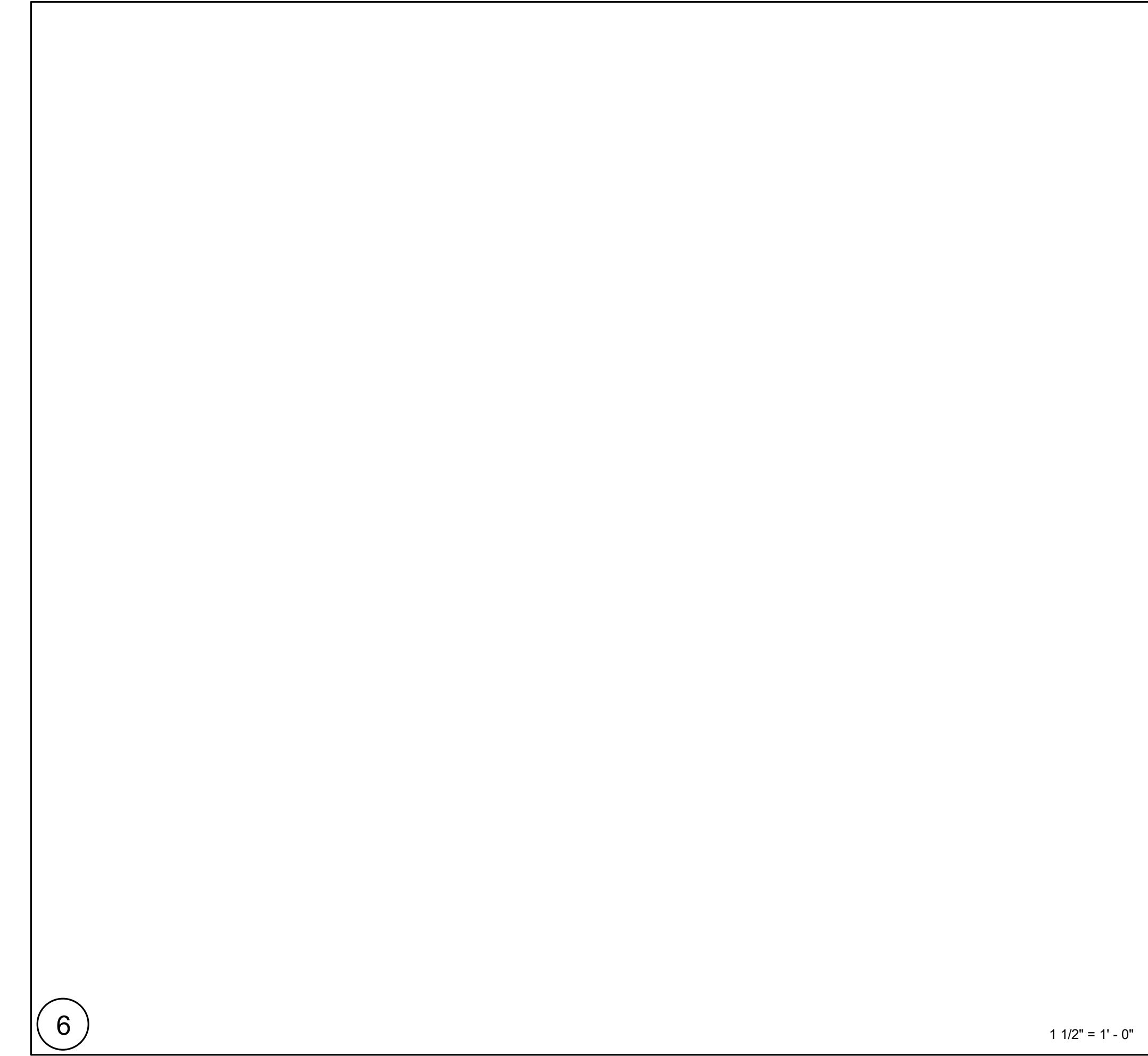
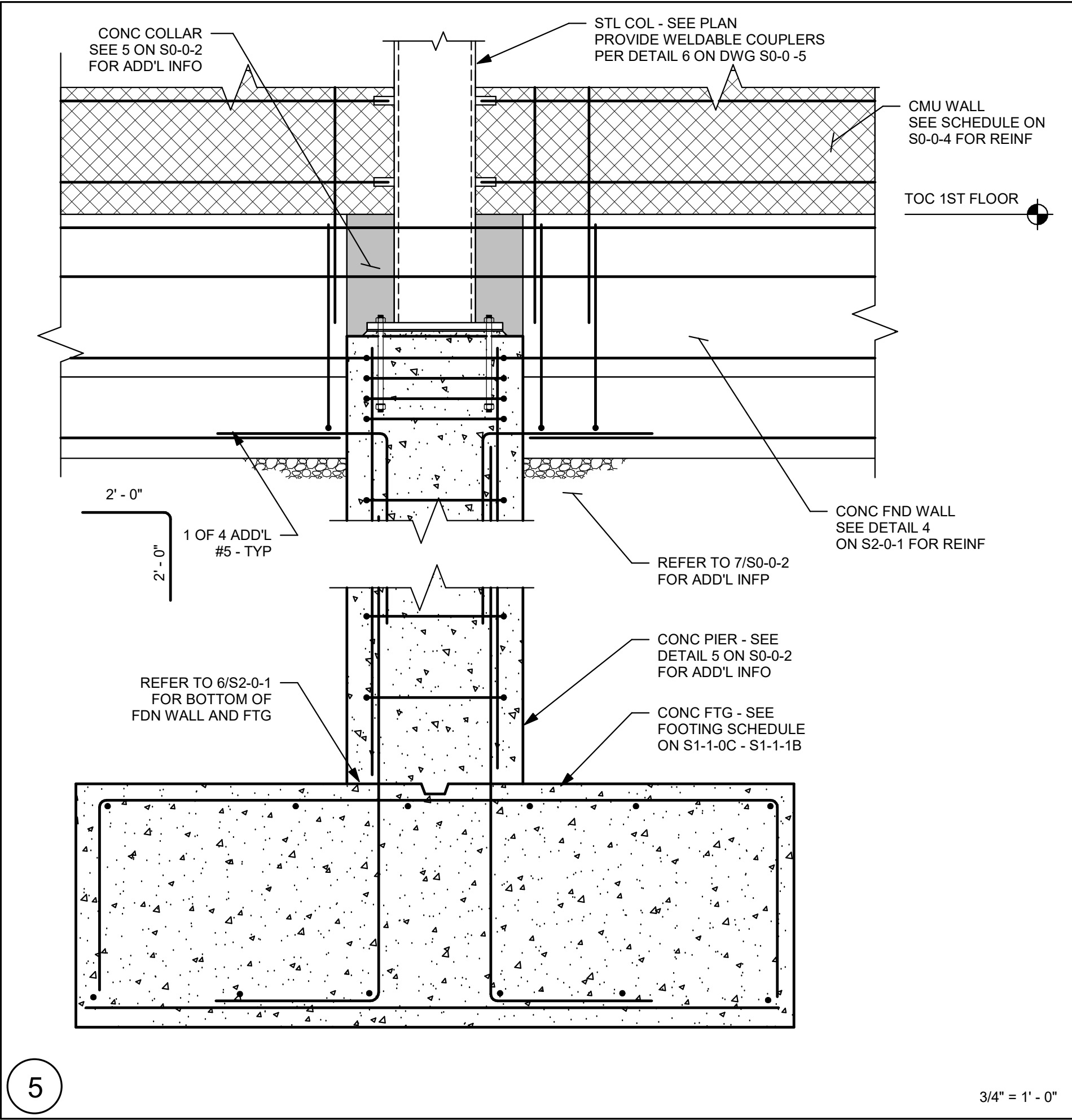
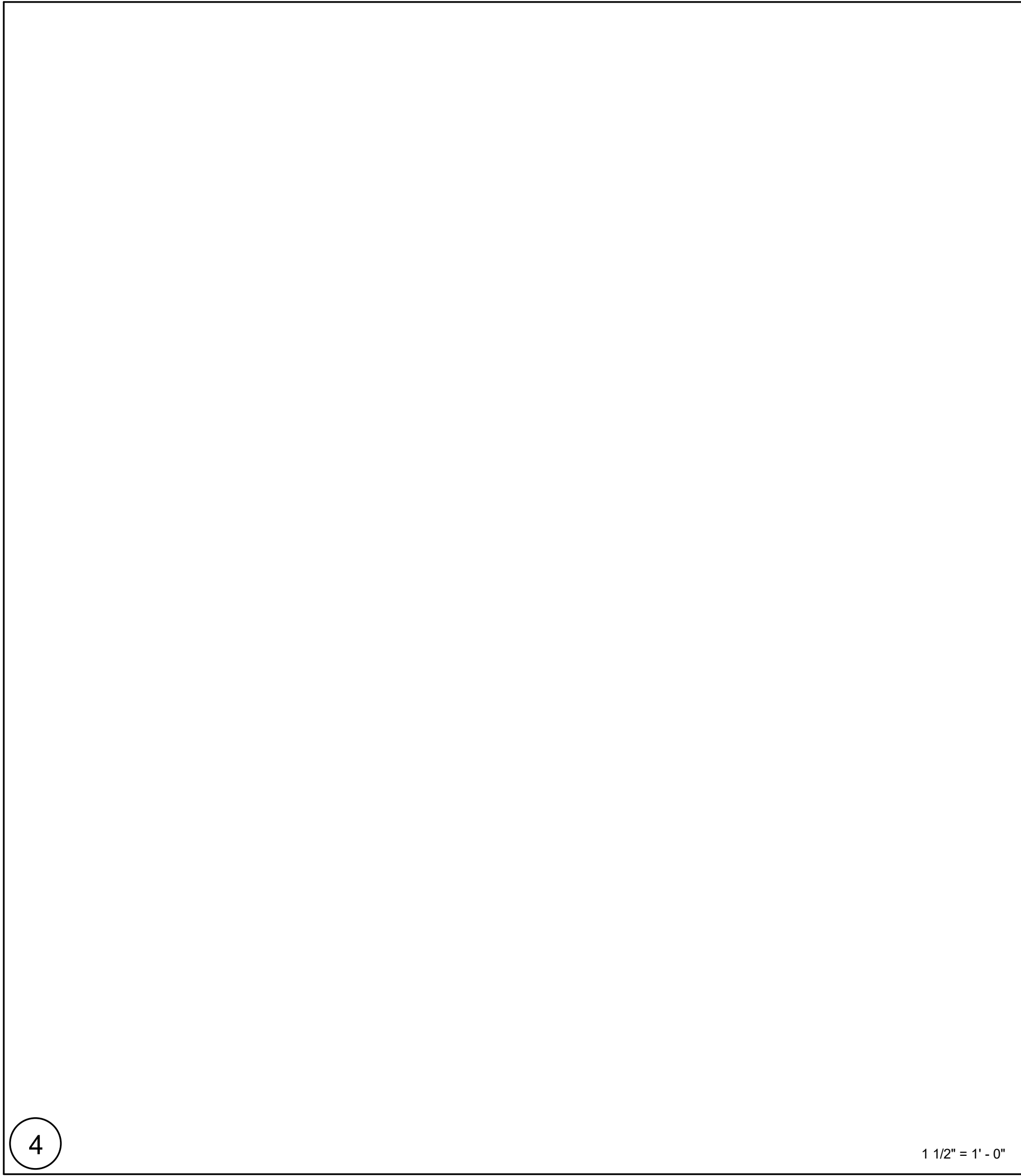
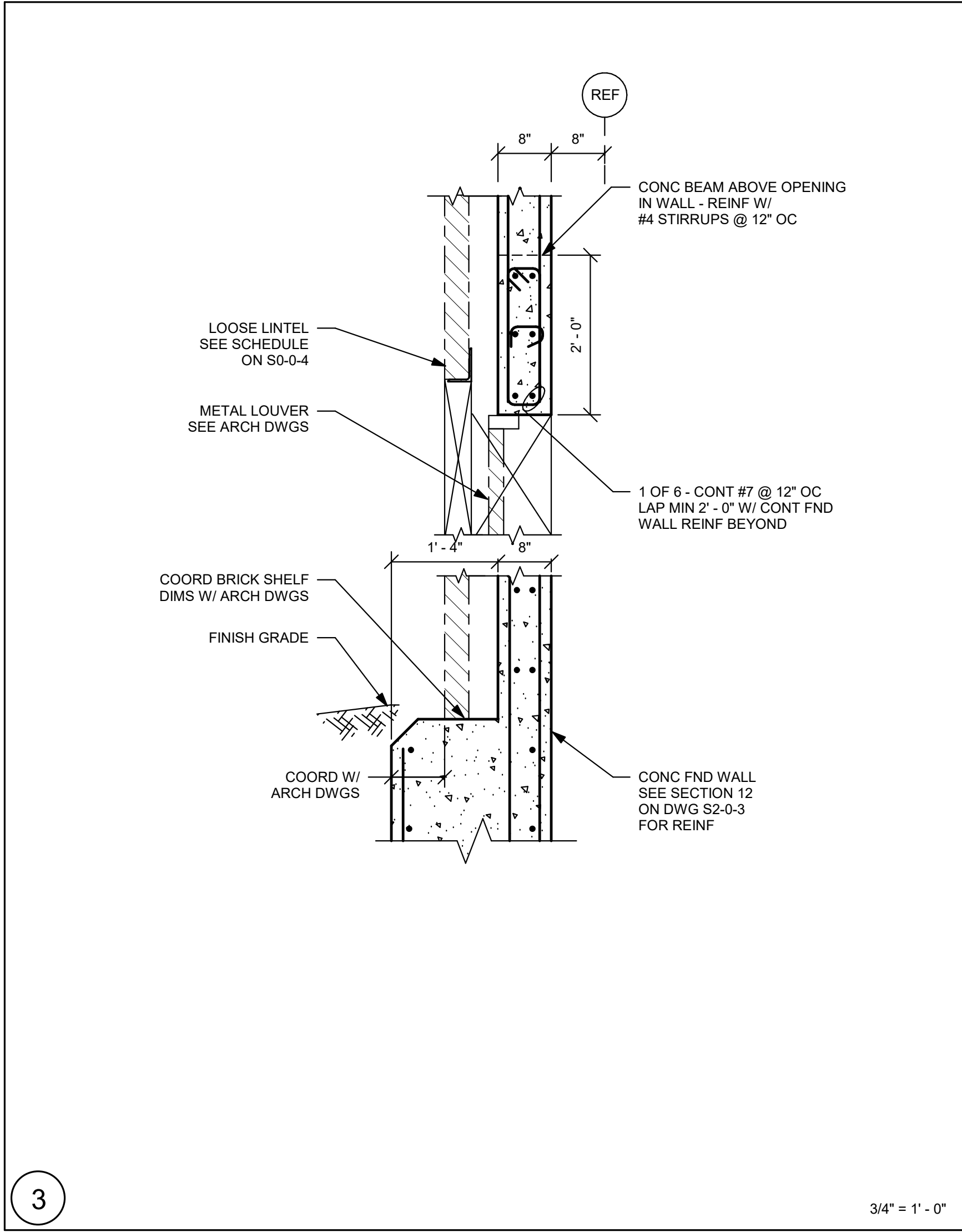
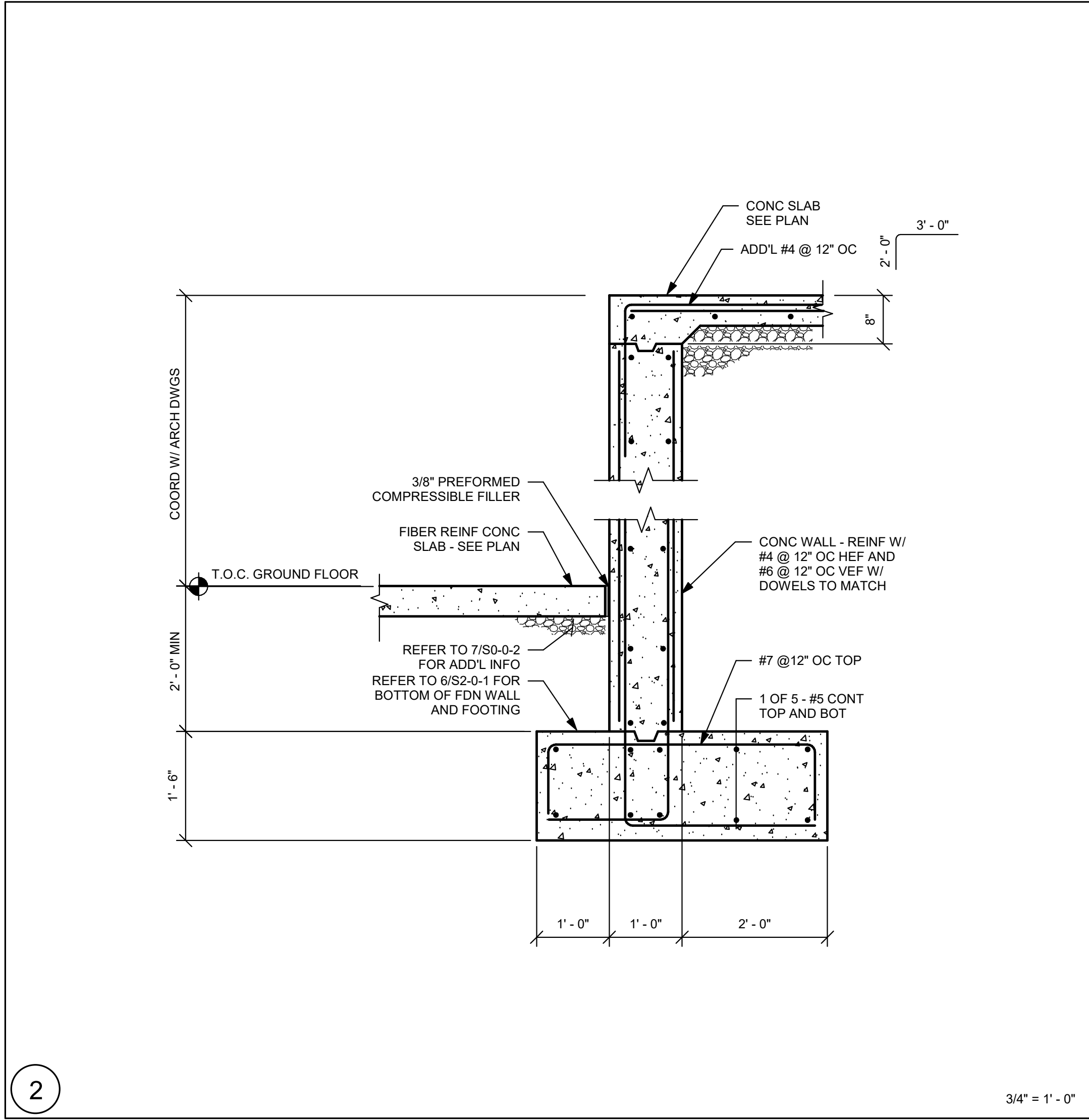
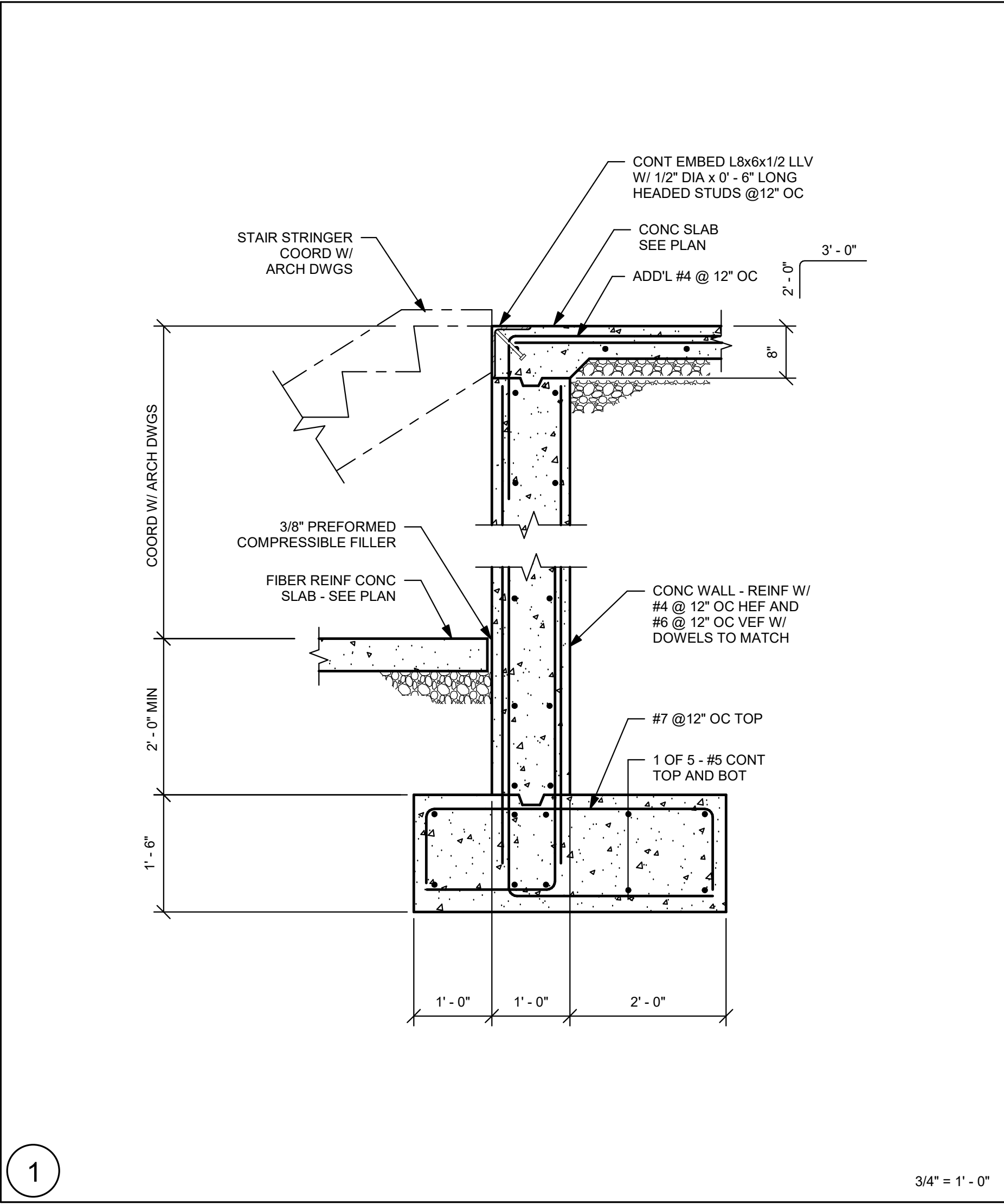
MAGNETIC NORTH

**SECTIONS**

Scale: As indicated  
Job No.: 20202  
Drawn By: EDG  
Date: 01/13/2023

**S2-0-3**





DRA

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NORTHEAST  
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A B C D

KEY PLAN

PROJECT NORTH

MAGNETIC NORTH

SECTIONS

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

Job No.: 20202

Drawn By: EDG

Date: 01/13/2023

S2-0-4



## NORTHEAST METRO TECH

100 Hemlock Rd.  
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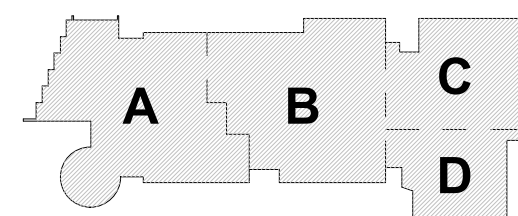


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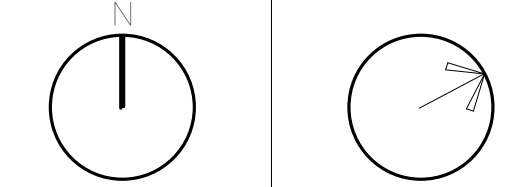
MSBA 60% CD  
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KEY PLAN

PROJECT NORTH



## SECTIONS

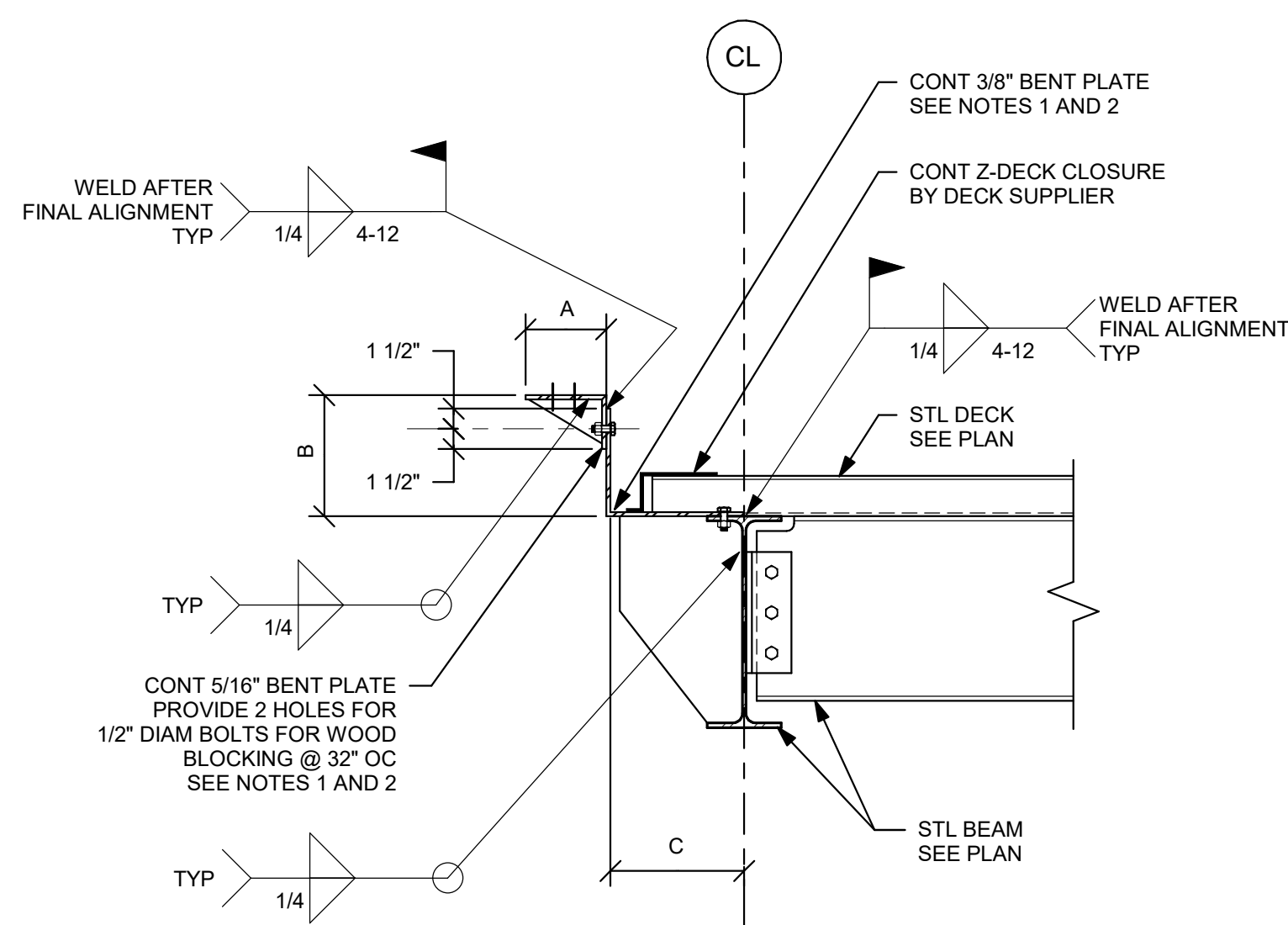
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Job No.: 20202

Drawn By: EDG

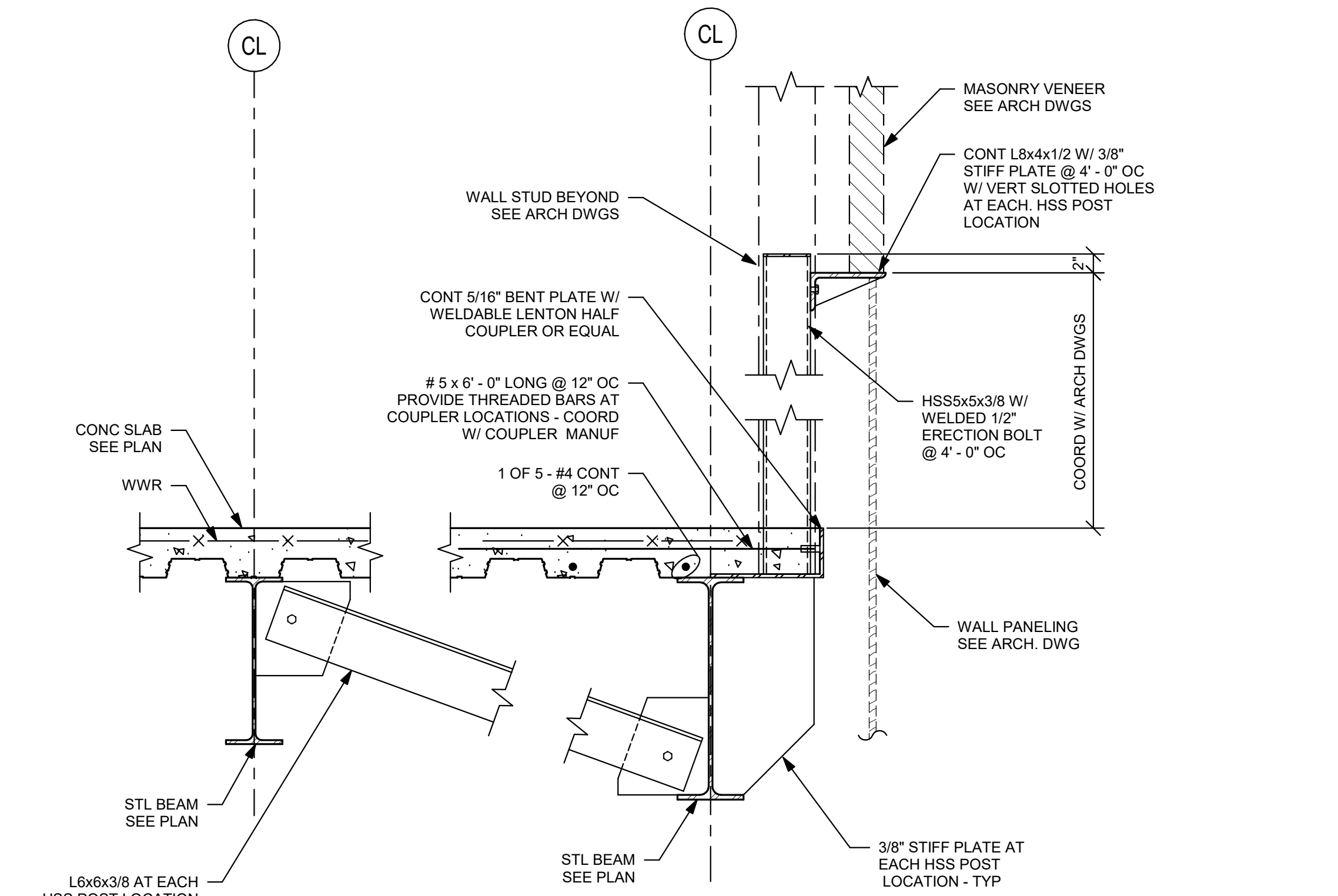
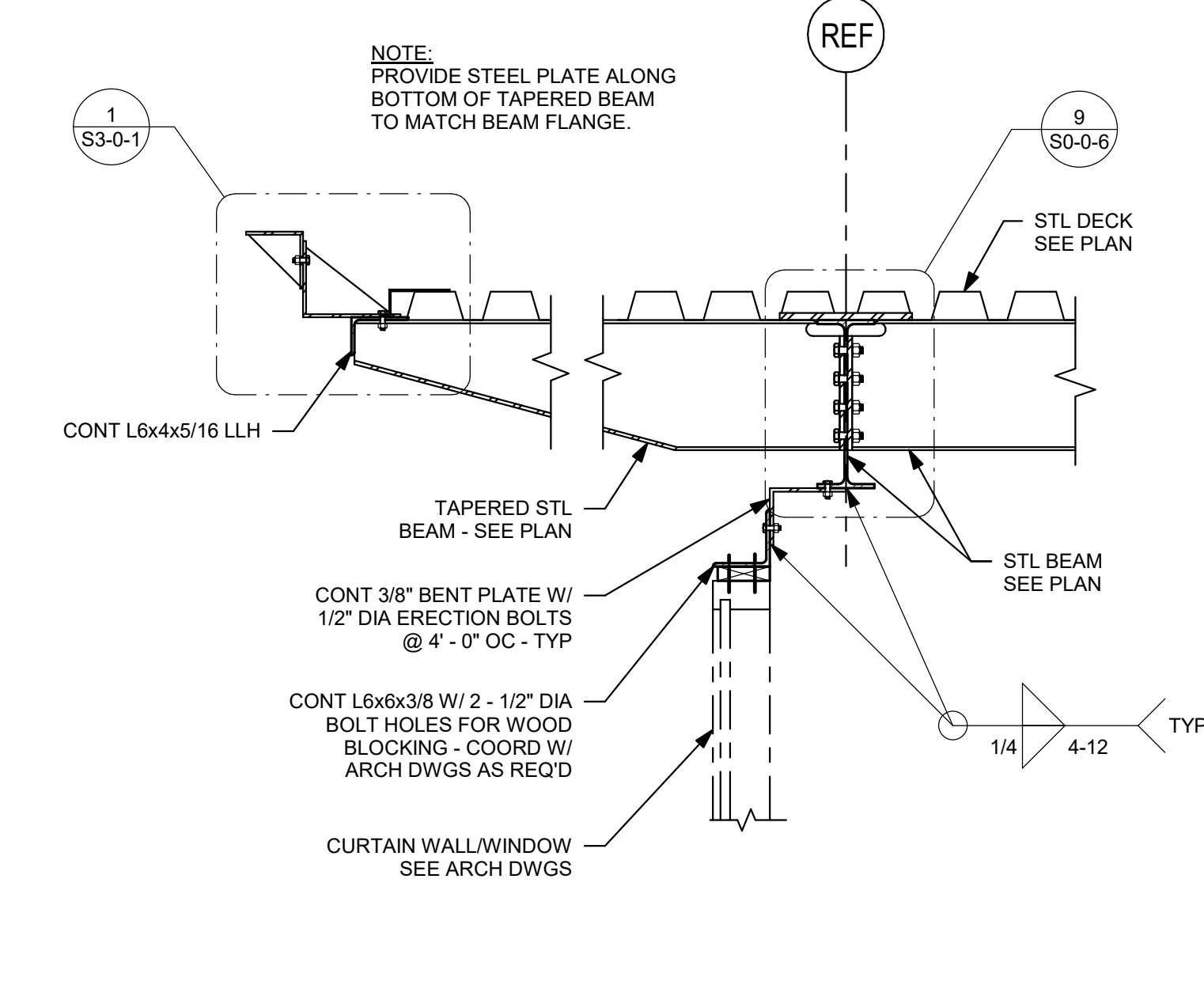
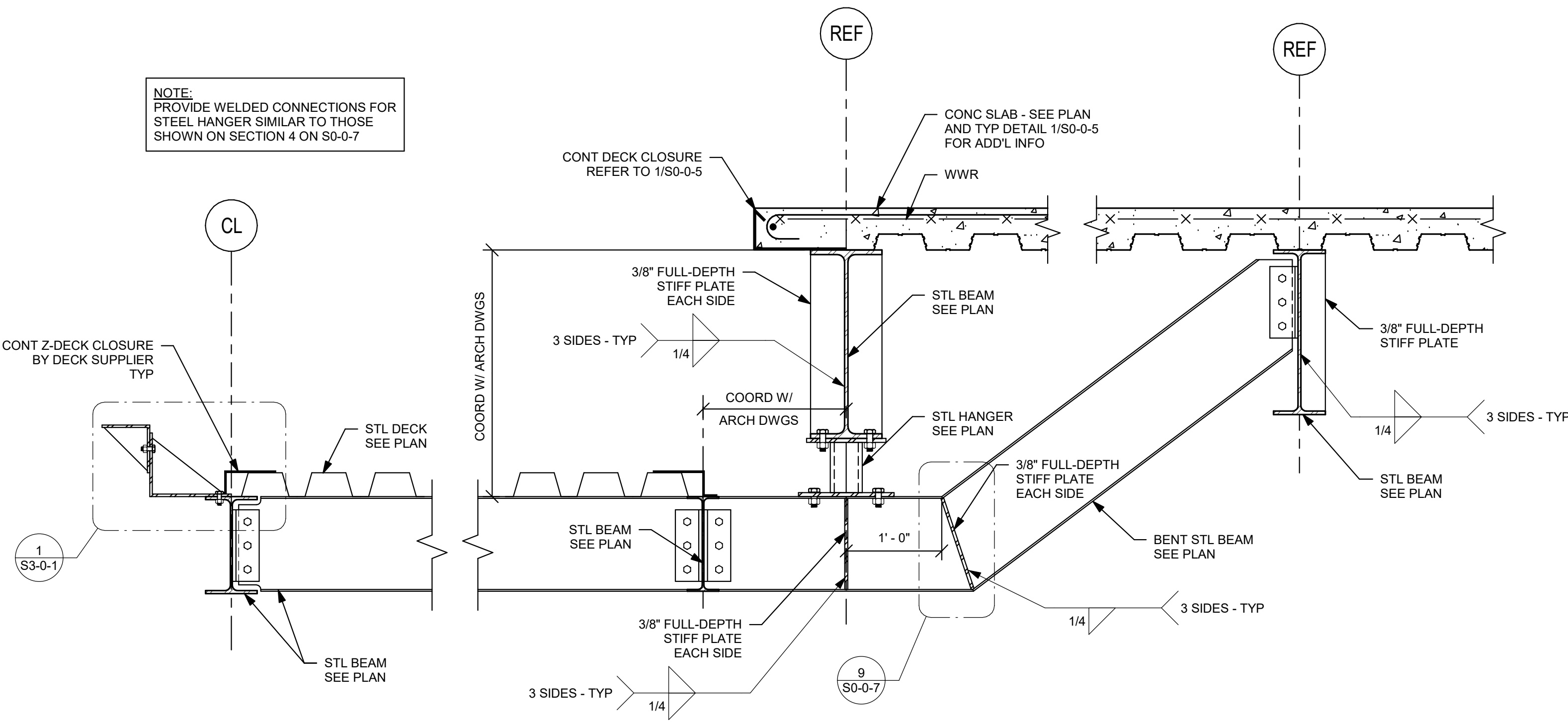
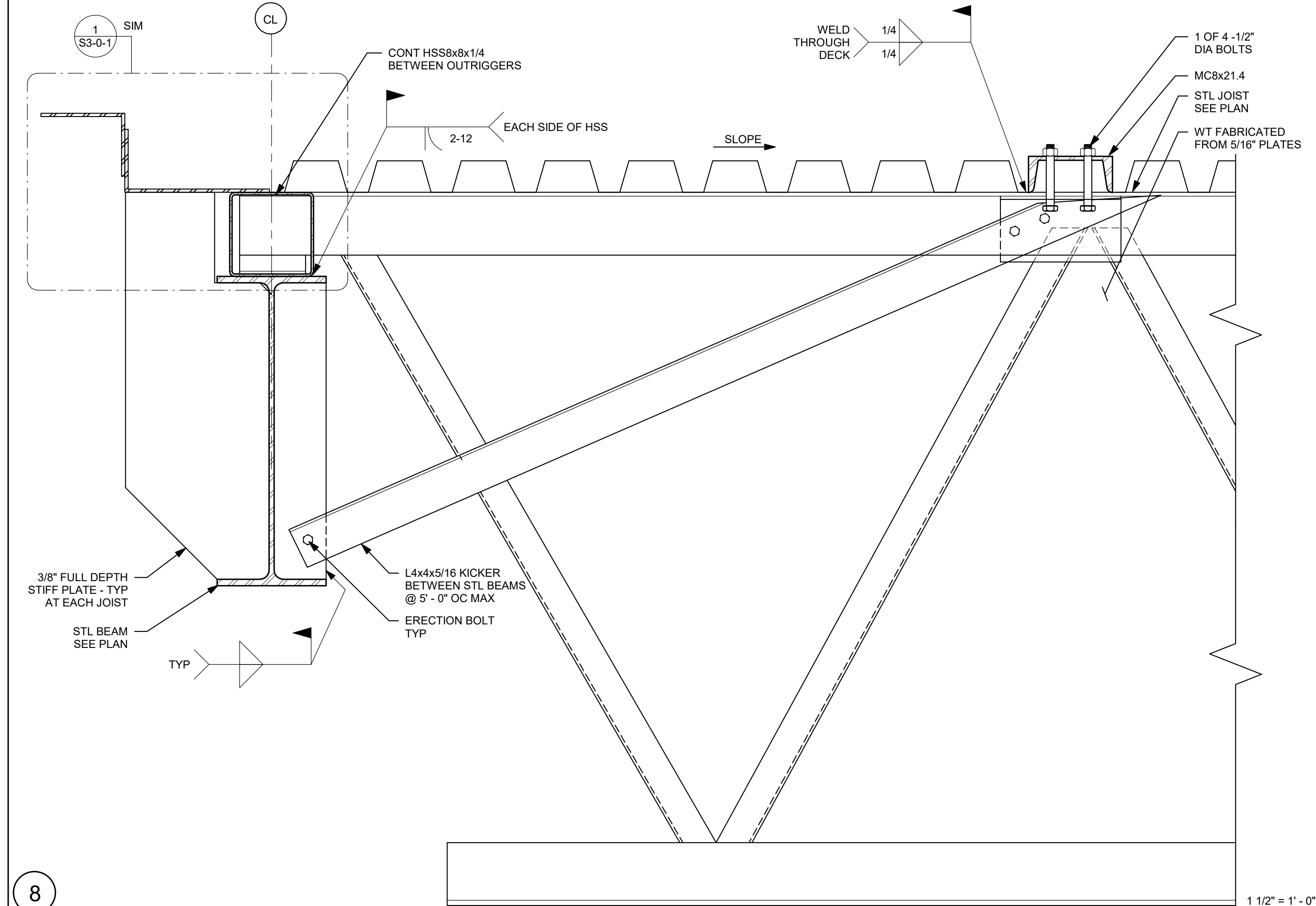
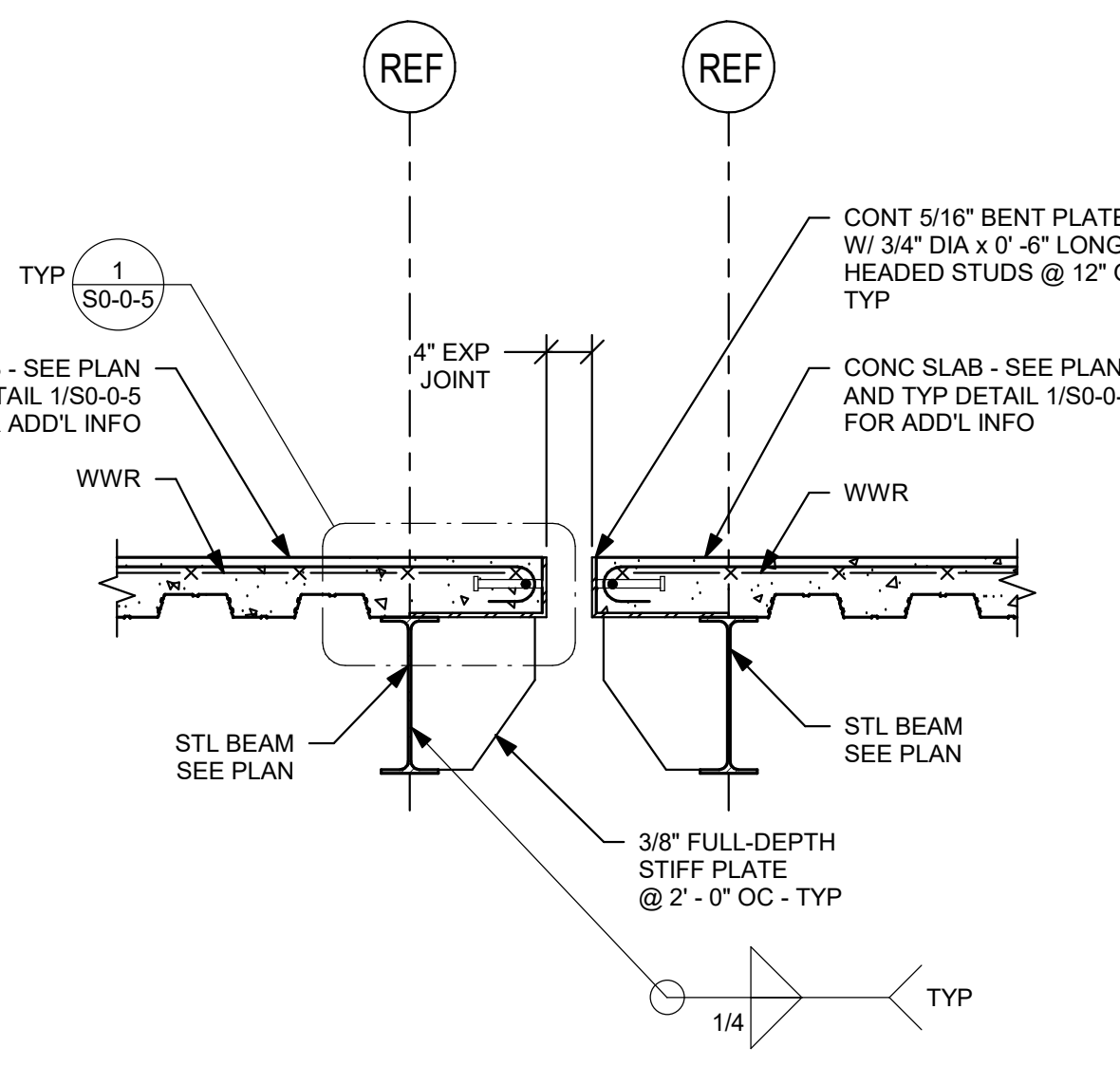
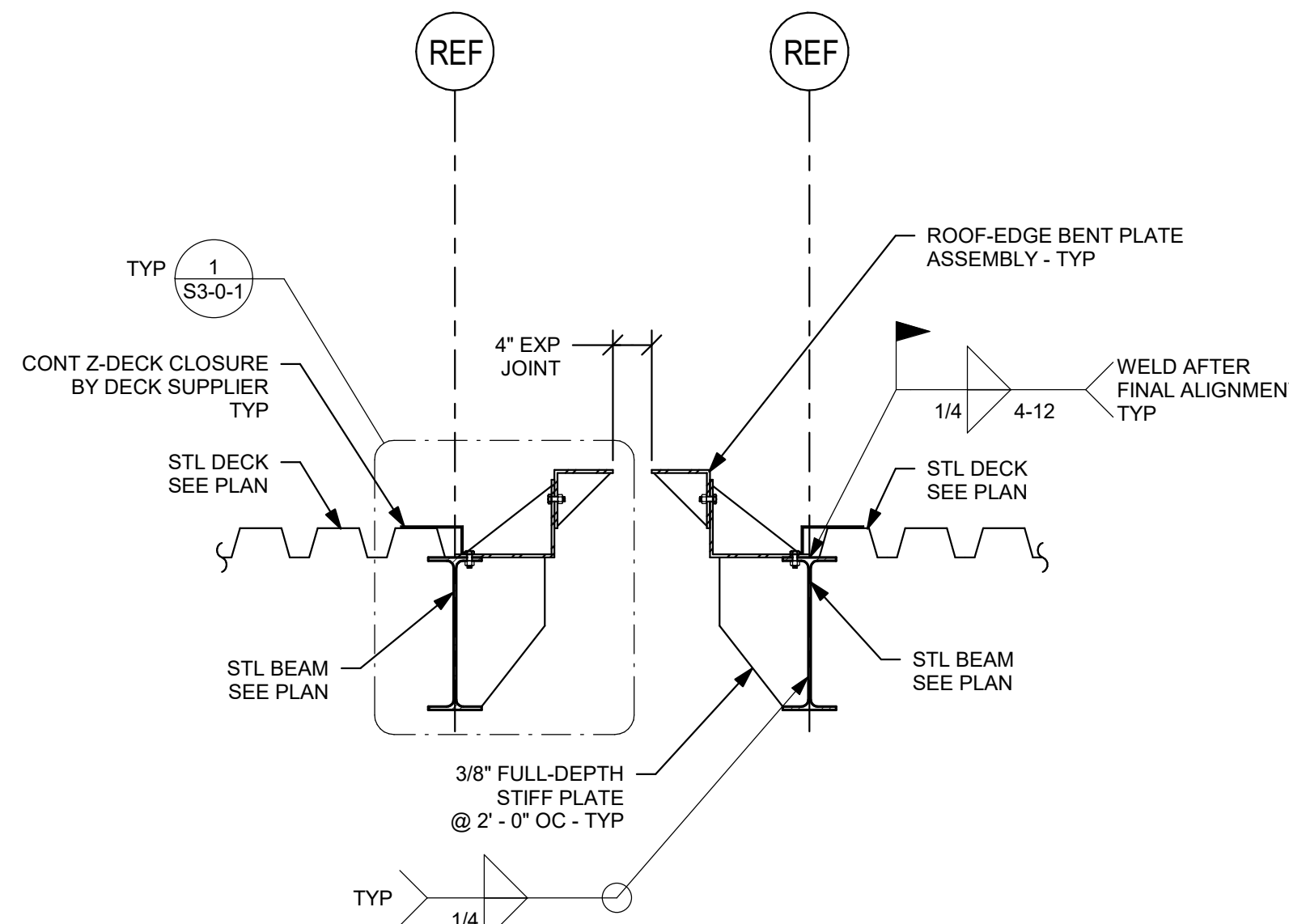
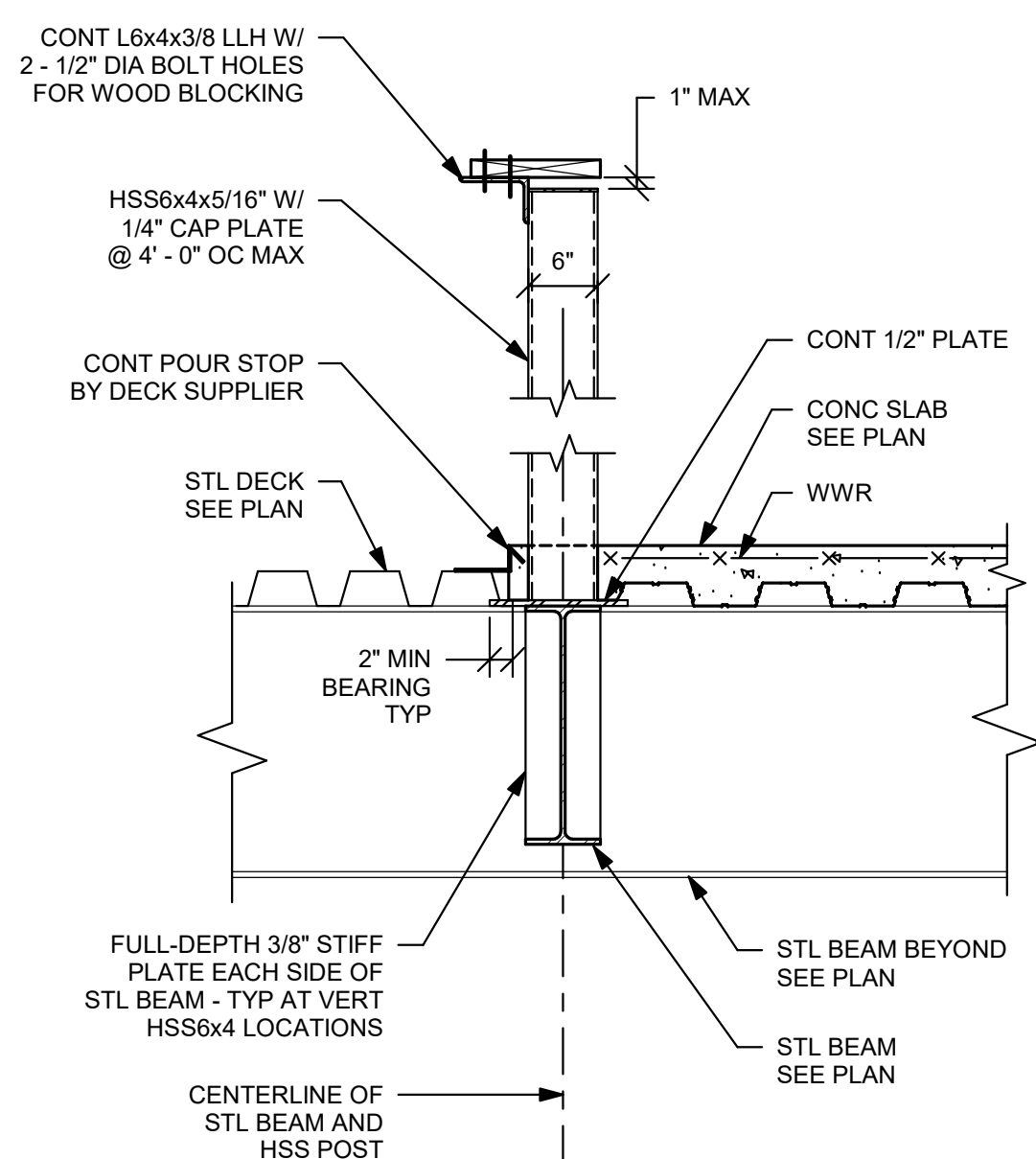
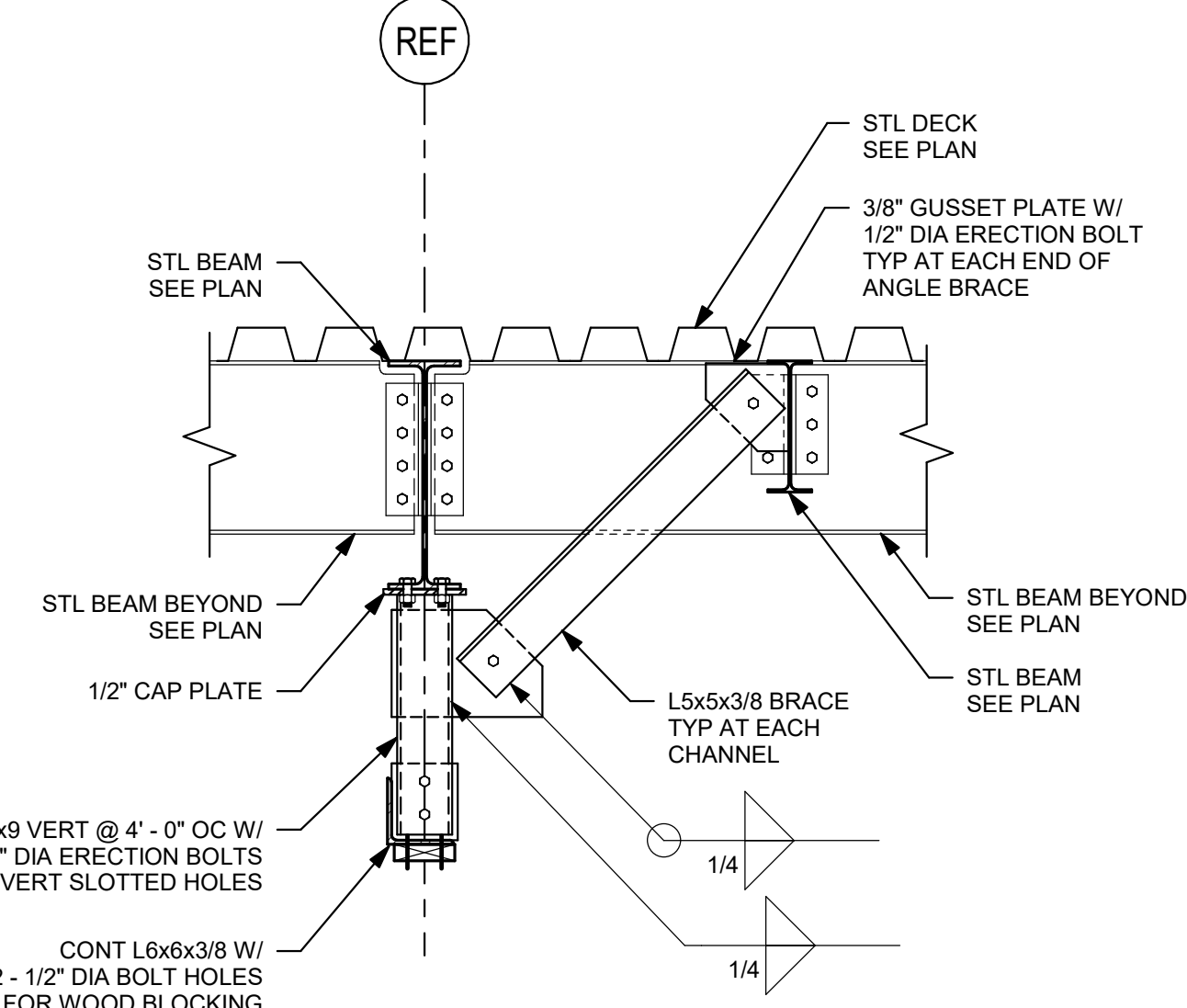
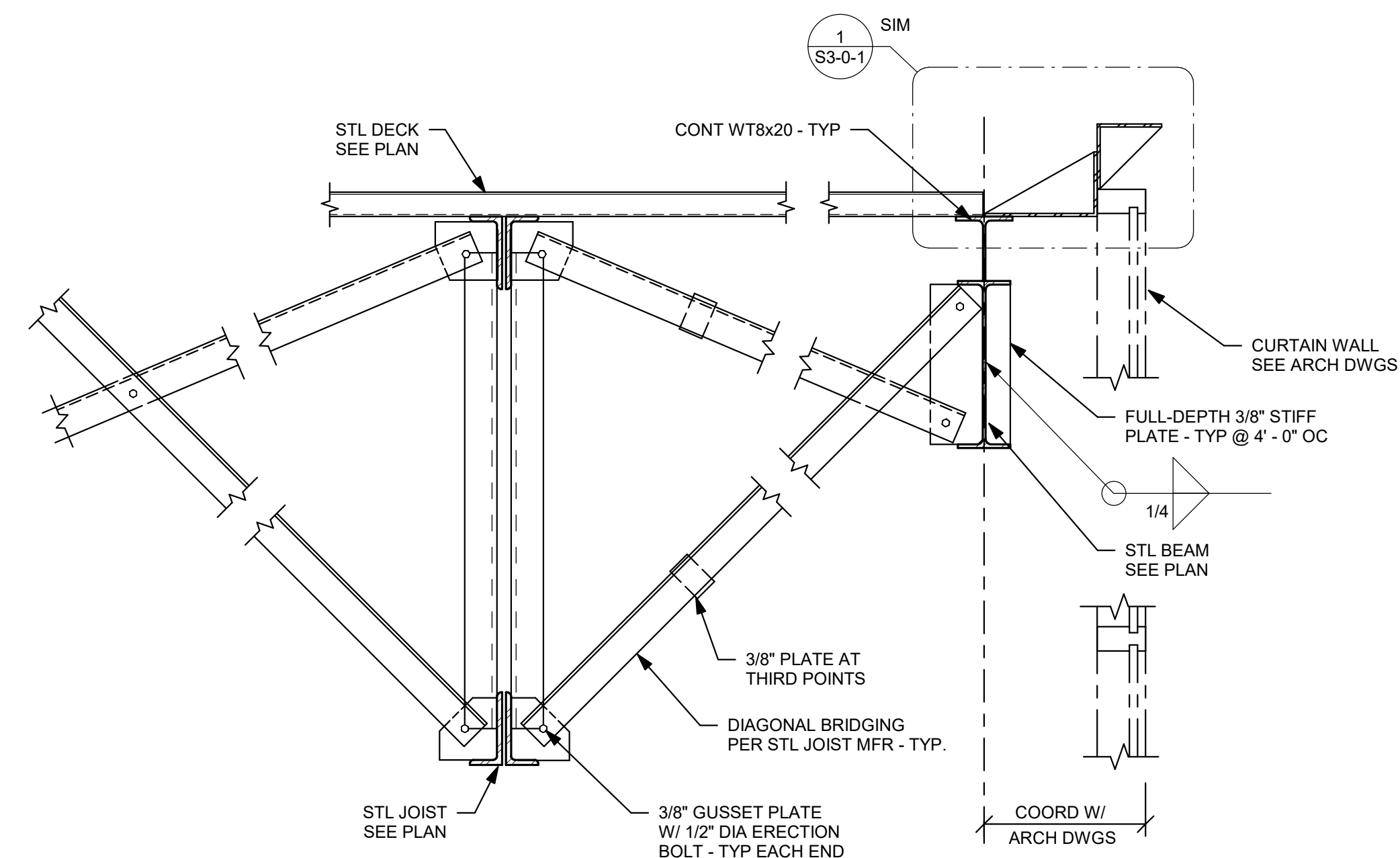
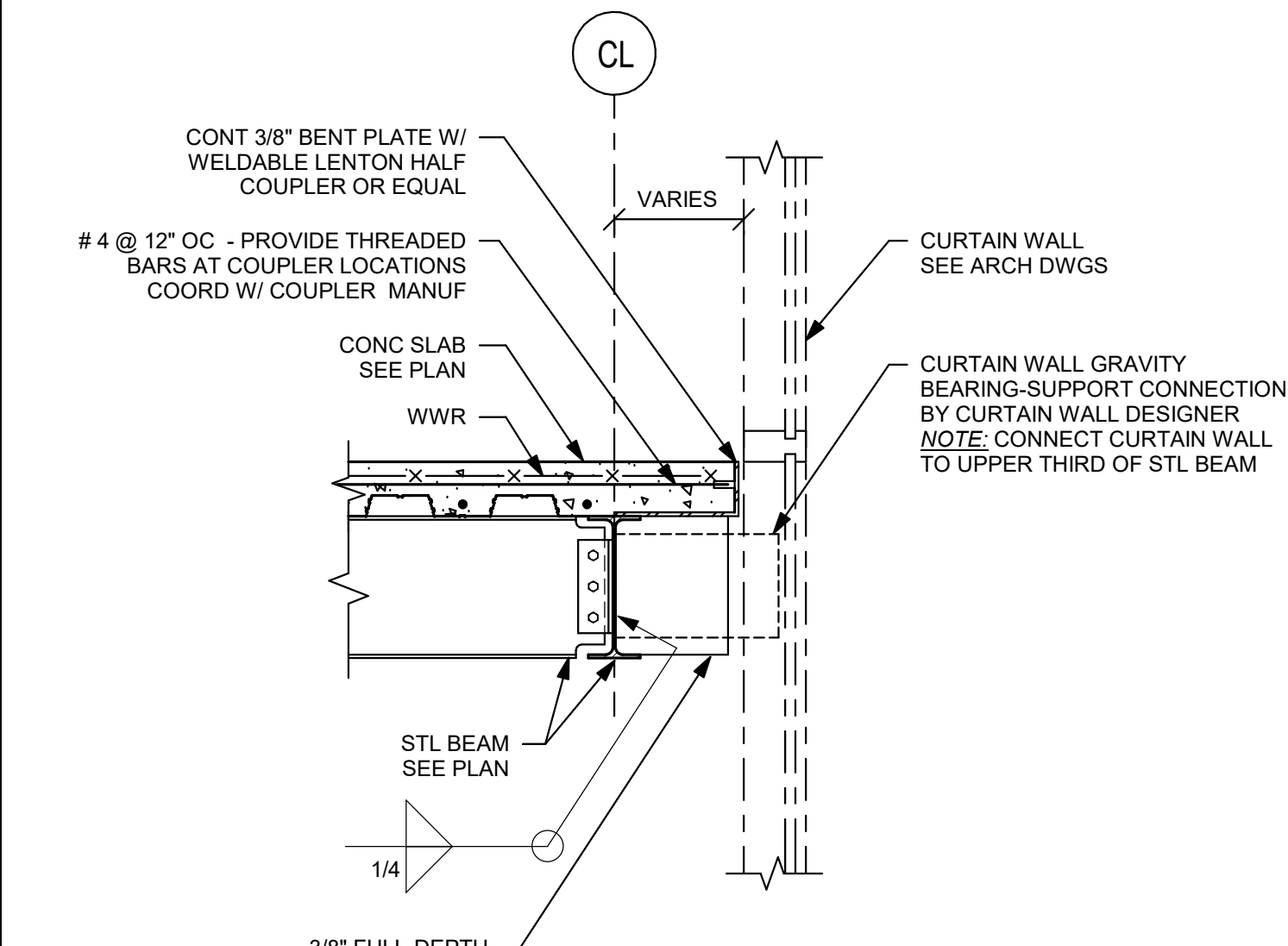
Date: 01/13/2023

**S3-0-1**

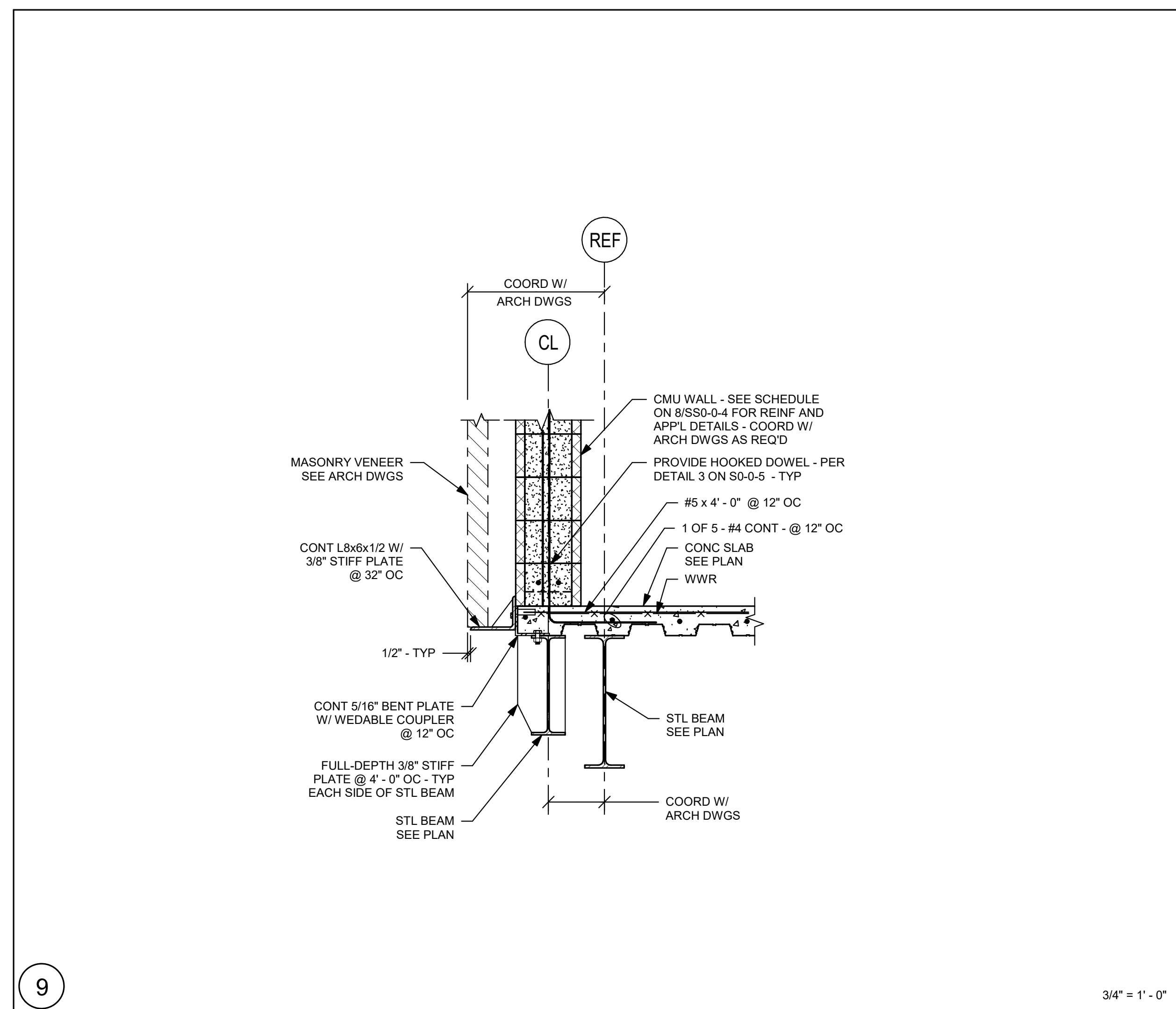
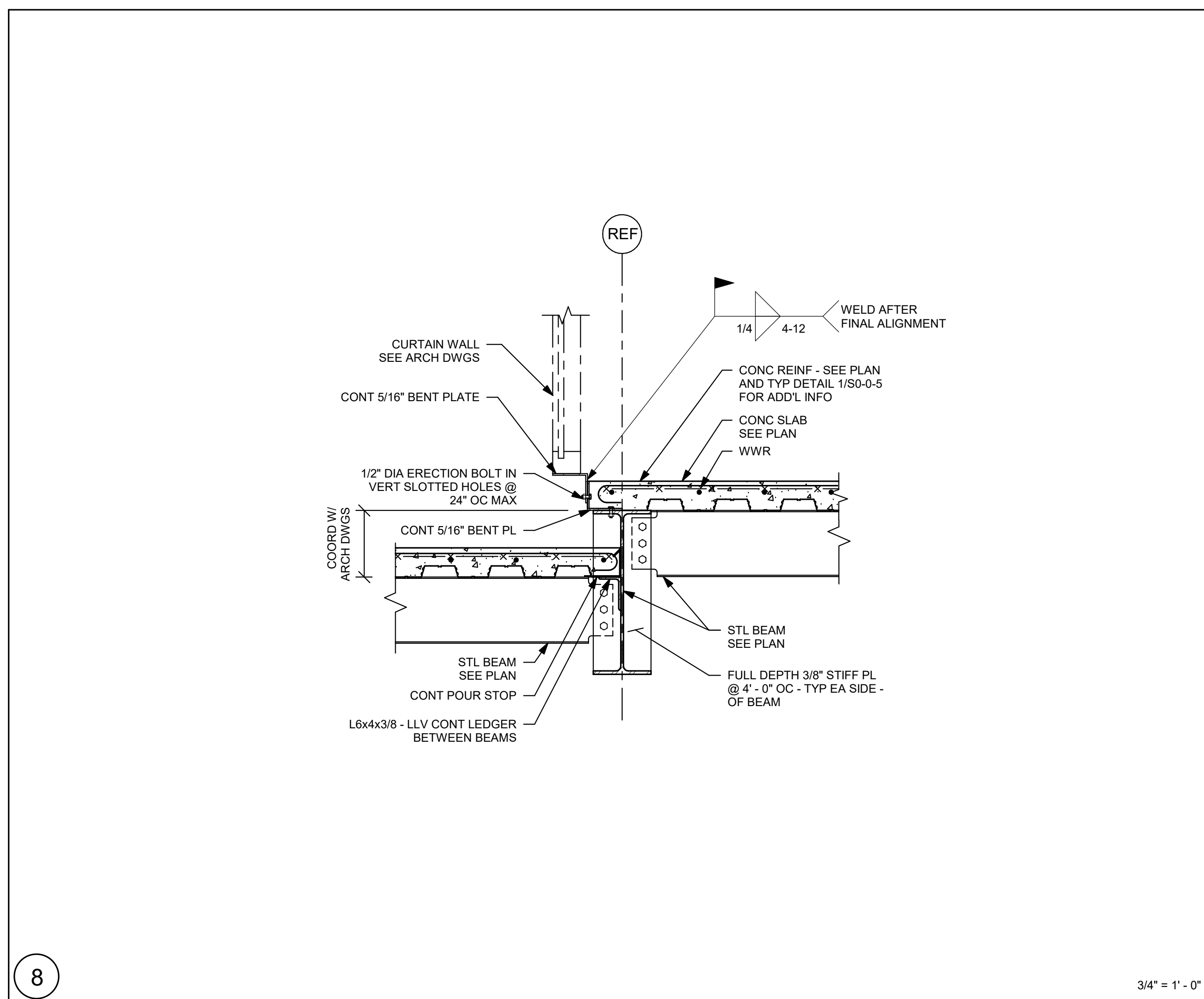
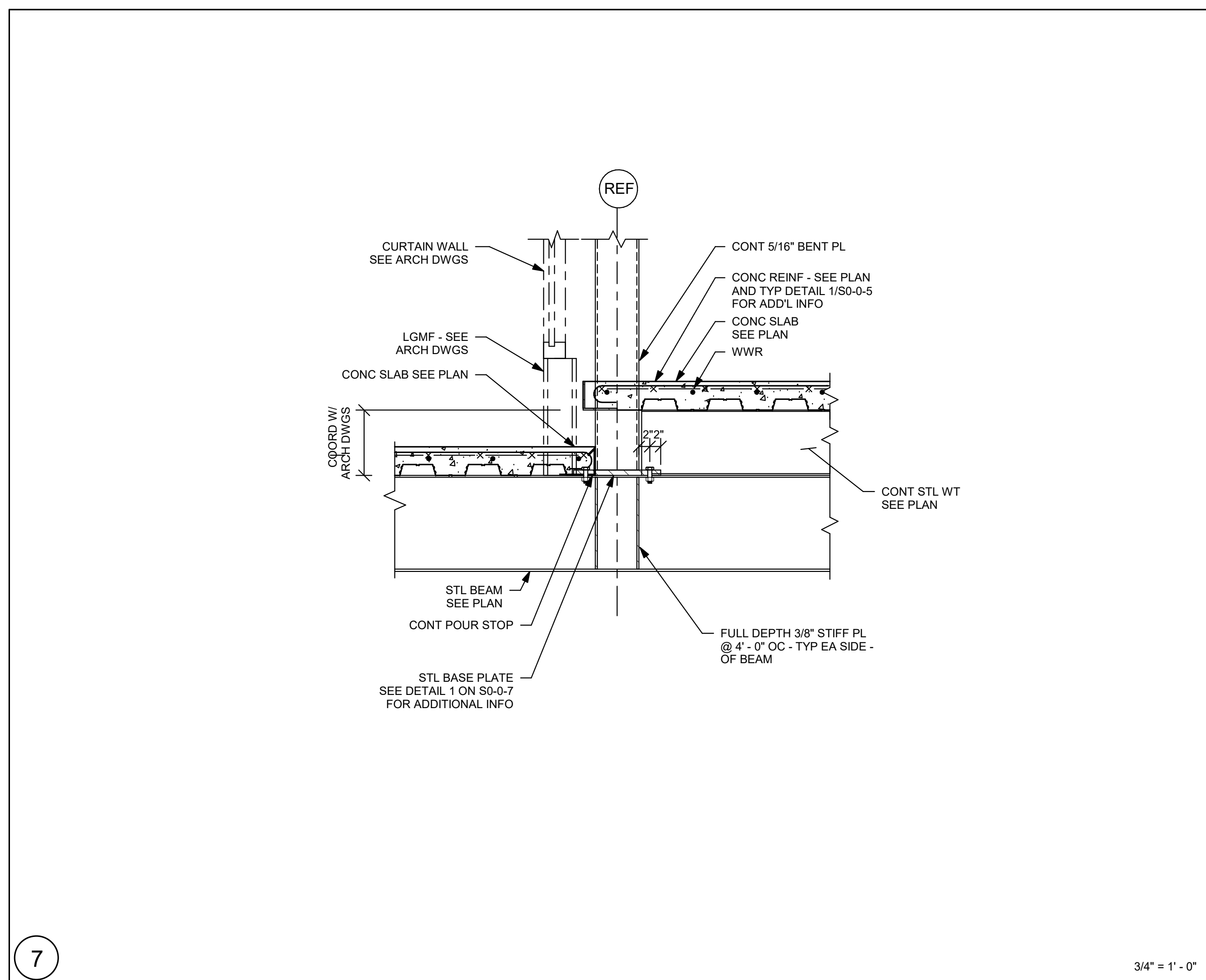
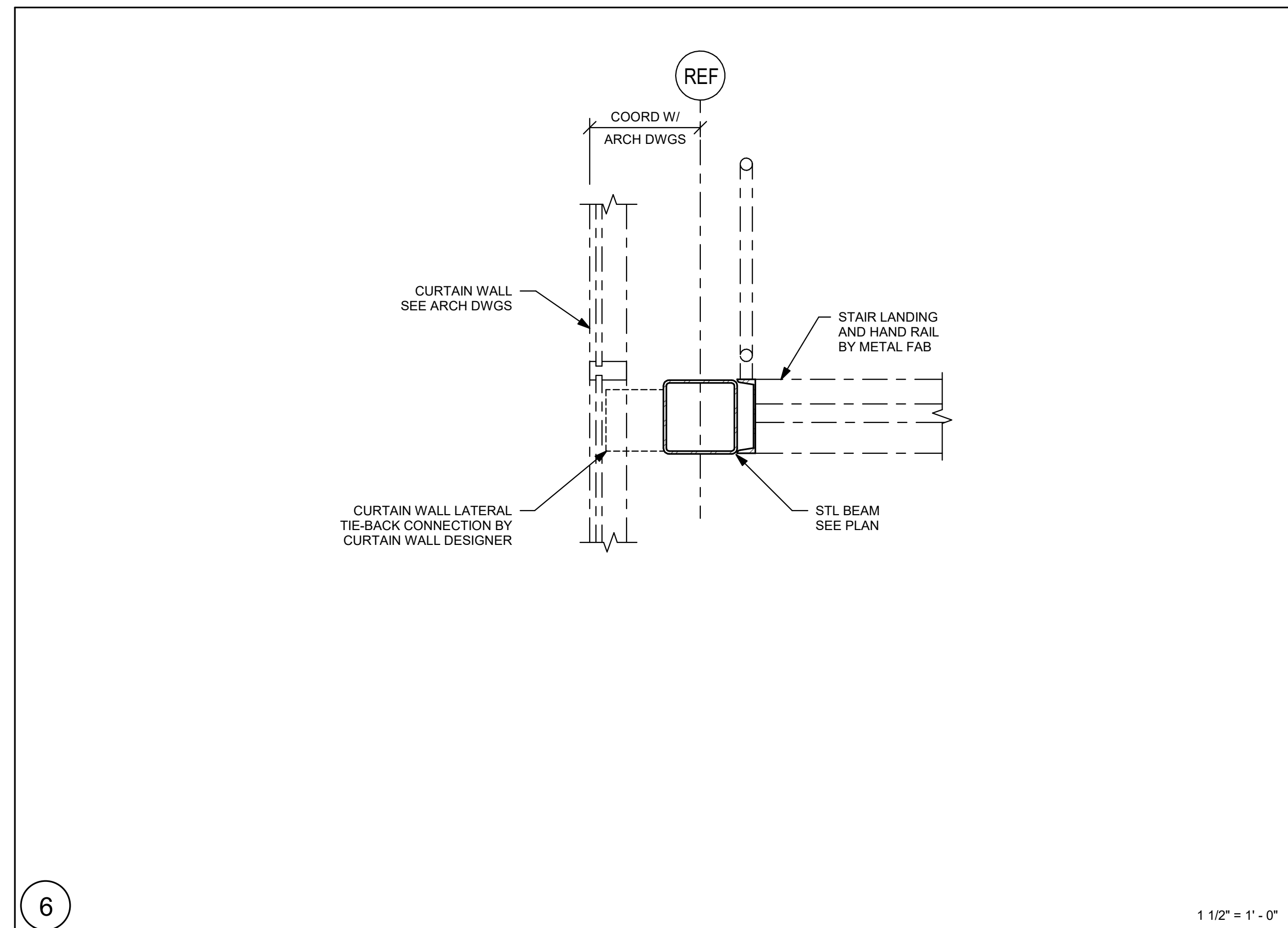
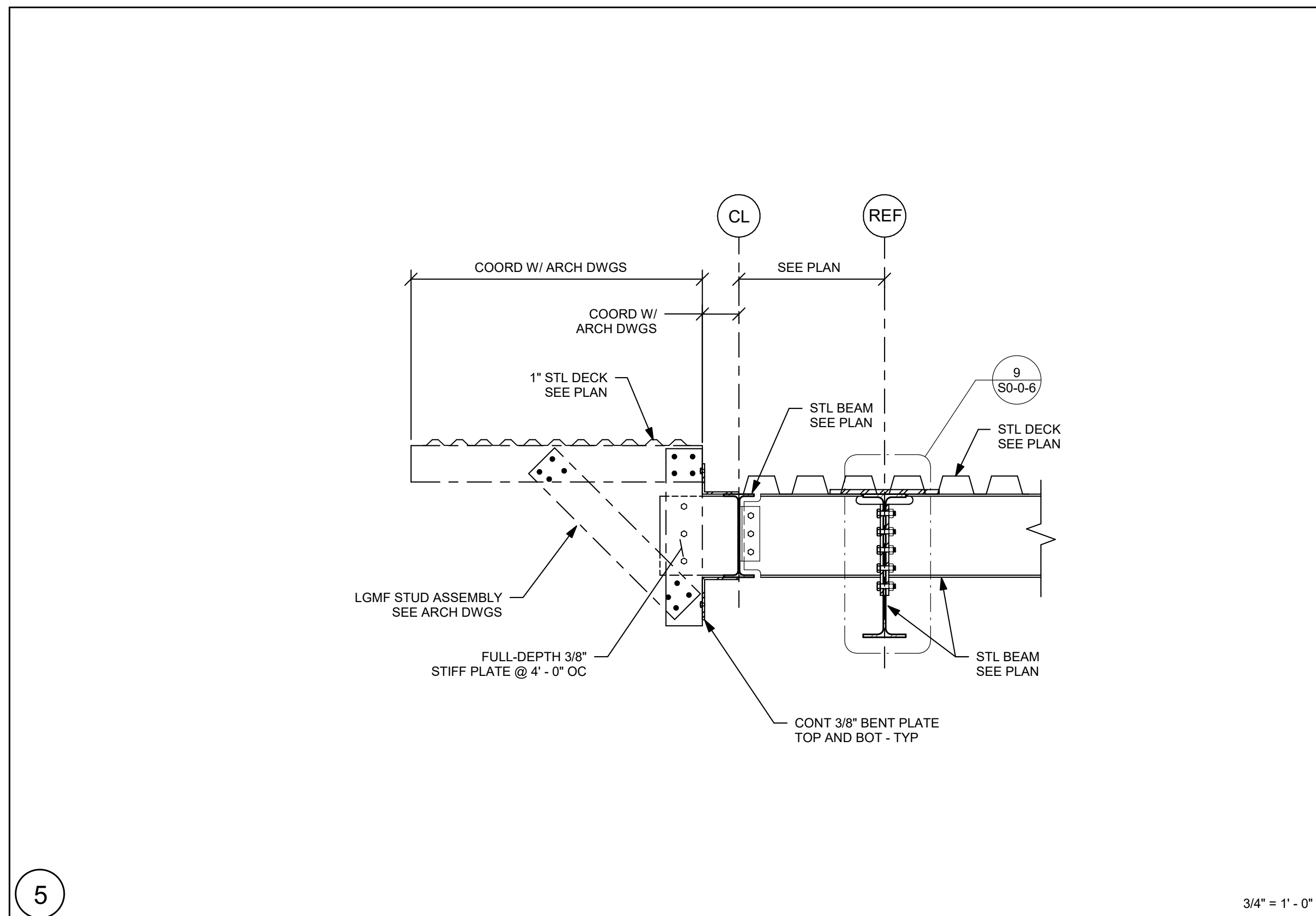
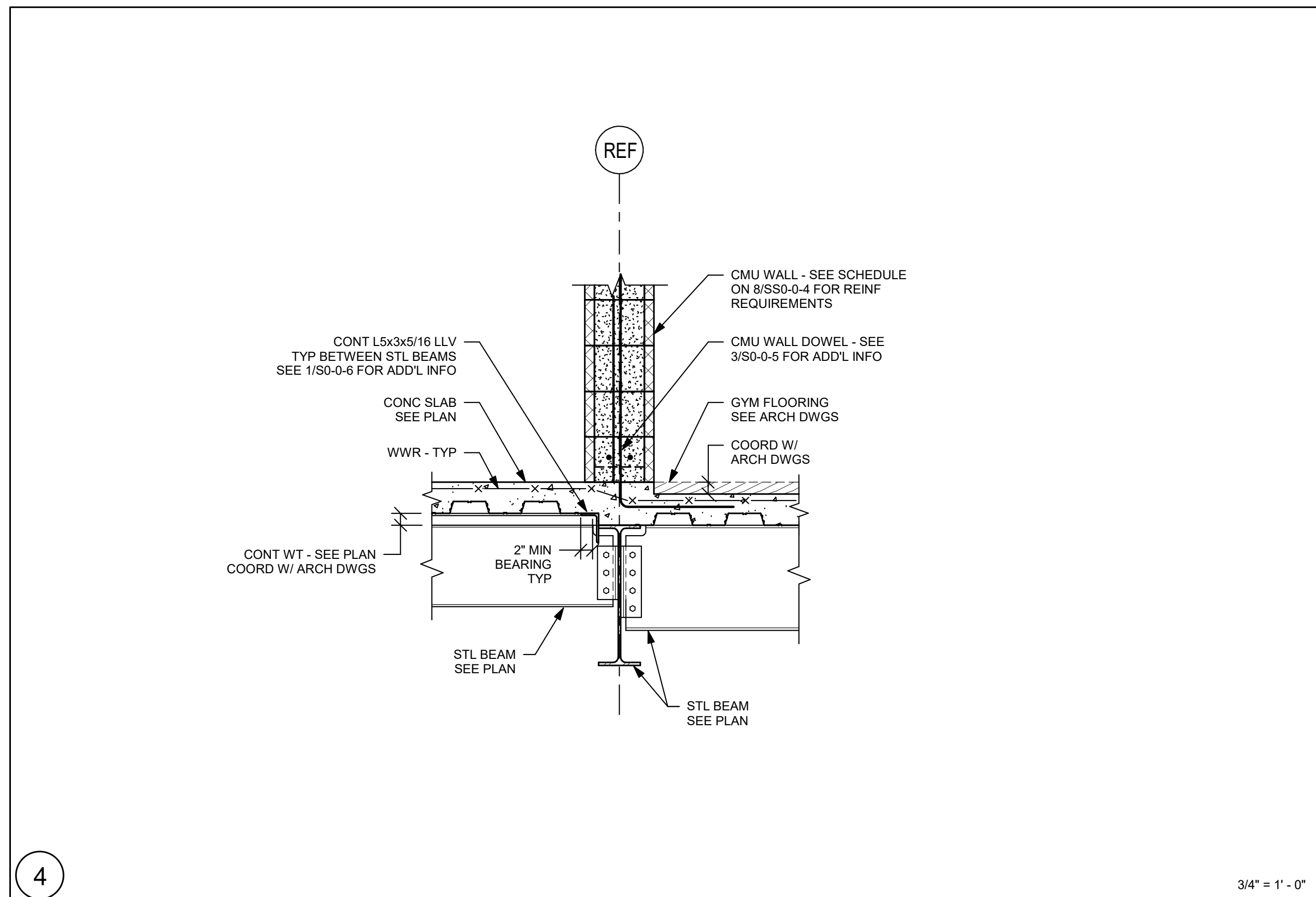
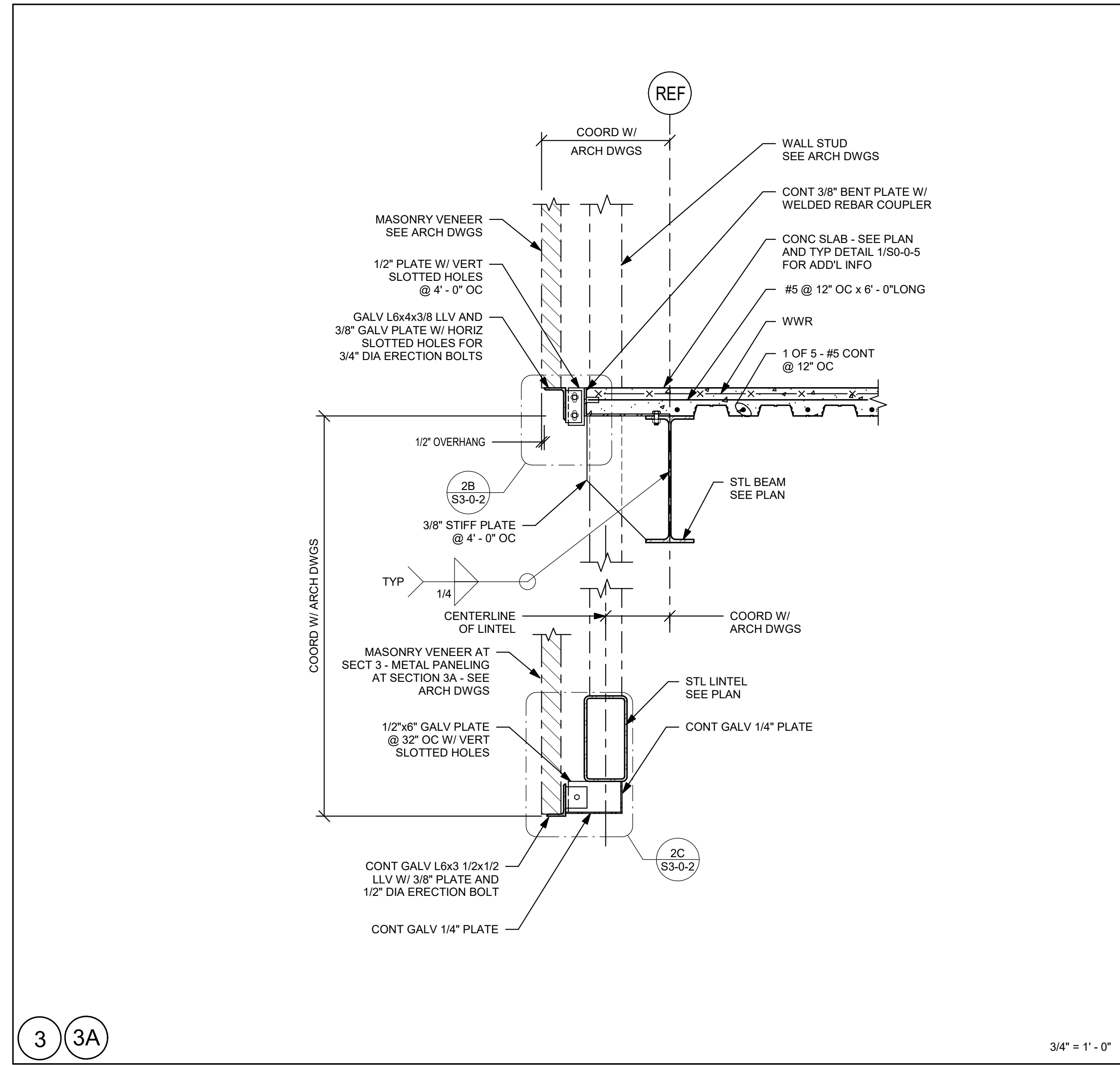
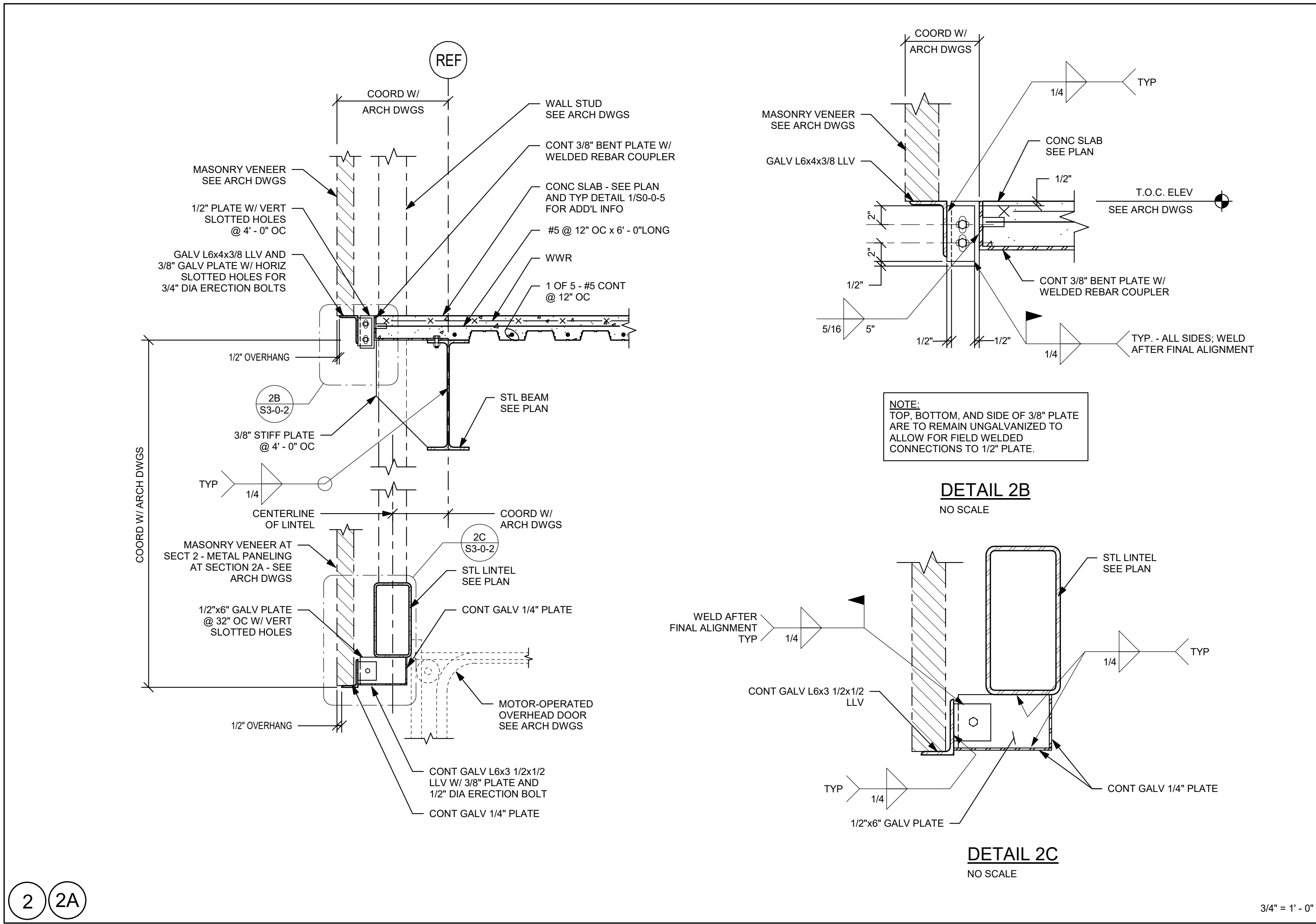
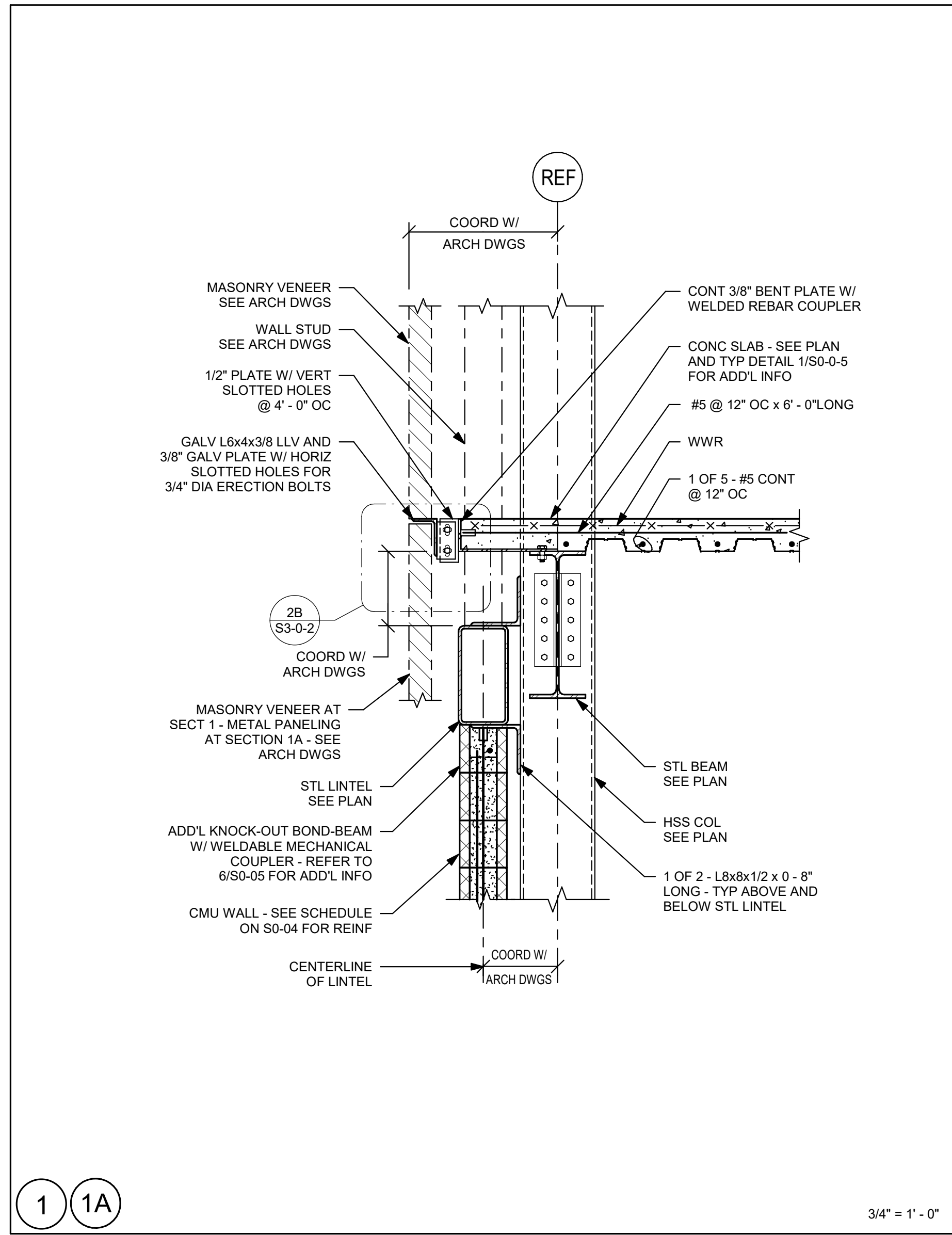


### NOTES:

- COORDINATE ALL ROOF-EDGE ANGLE AND BENT PLATE SIZES AND EXTENTS WITH ARCHITECTURAL DETAILS.
- PROVIDE 3/8" STIFFENER PLATES @ 4'-0" OC AS SHOWN WHERE ROOF-EDGE BENT PLATE DIMENSIONS "A" AND/OR "B" ARE EQUAL TO OR GREATER THAN 9".
- PROVIDE 3/8" STIFFENER PLATES @ 4'-0" OC AS SHOWN WHERE ROOF-EDGE BENT PLATE DIMENSION "C" IS EQUAL TO OR GREATER THAN 1'-0".
- EXTEND ROOF EDGE ASSEMBLIES AROUND CORNERS AS REQUIRED PER DETAIL 10 ON DRAWING S0-0-7.







**NORTHEAST METRO TECH**

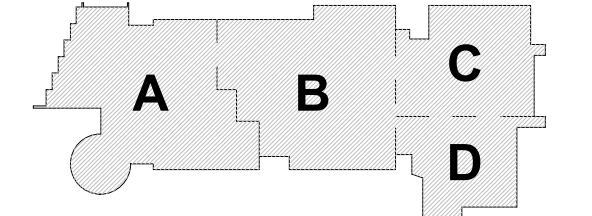
100 Hemlock Rd.  
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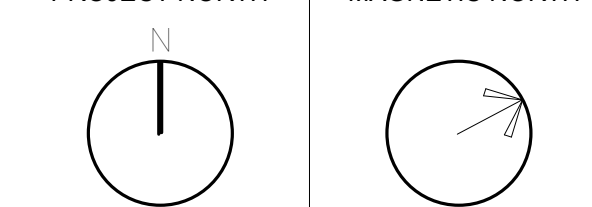
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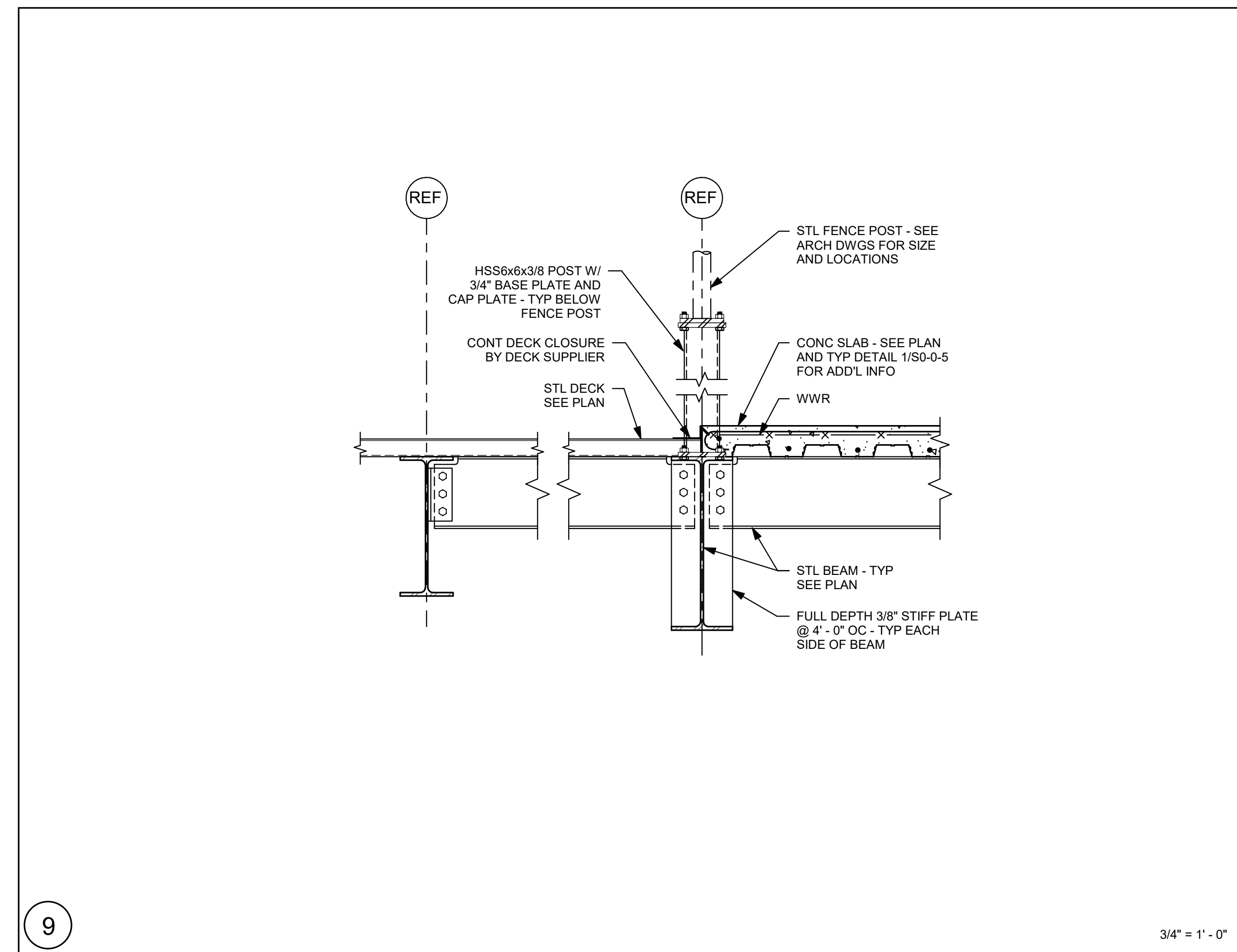
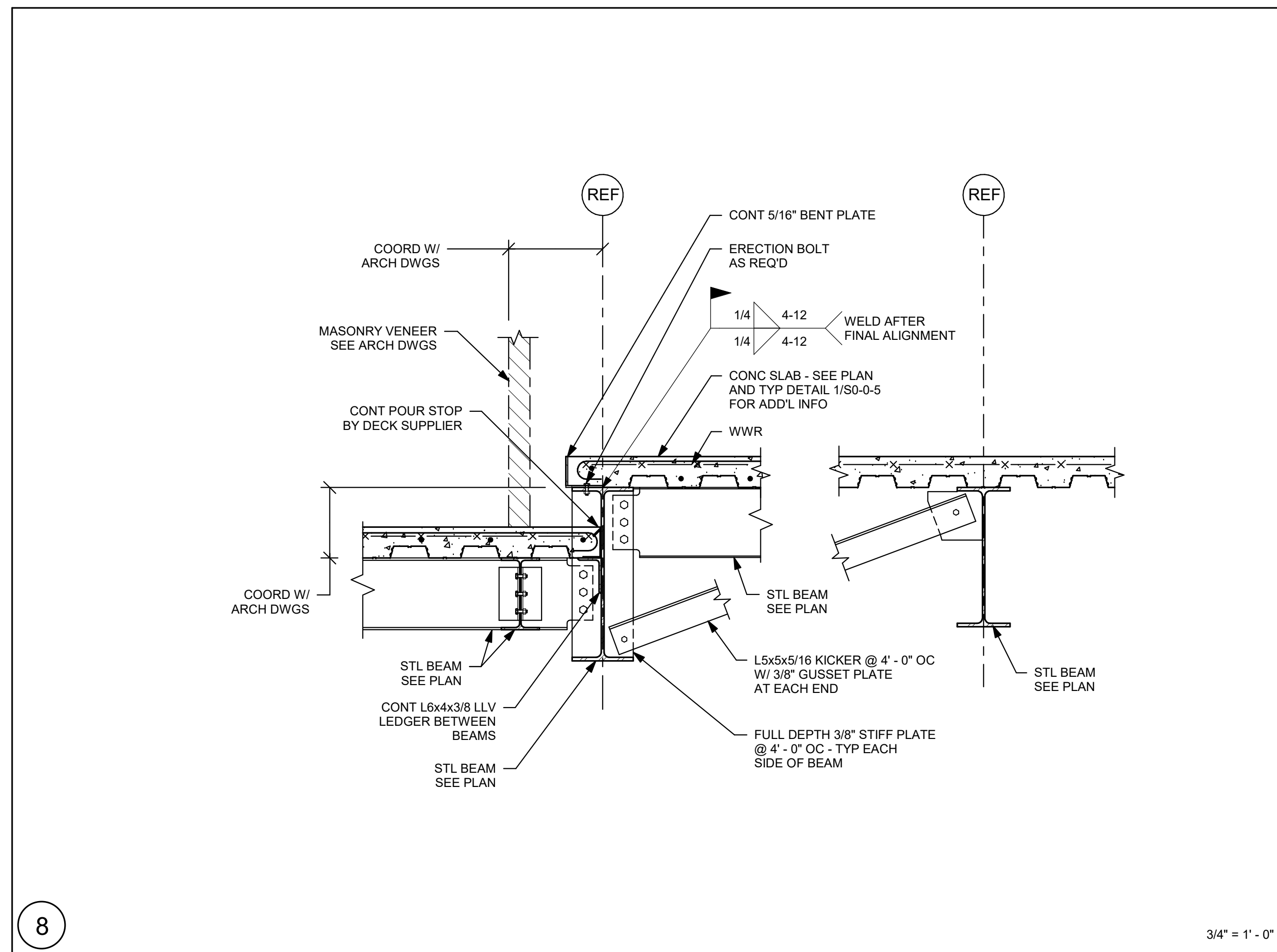
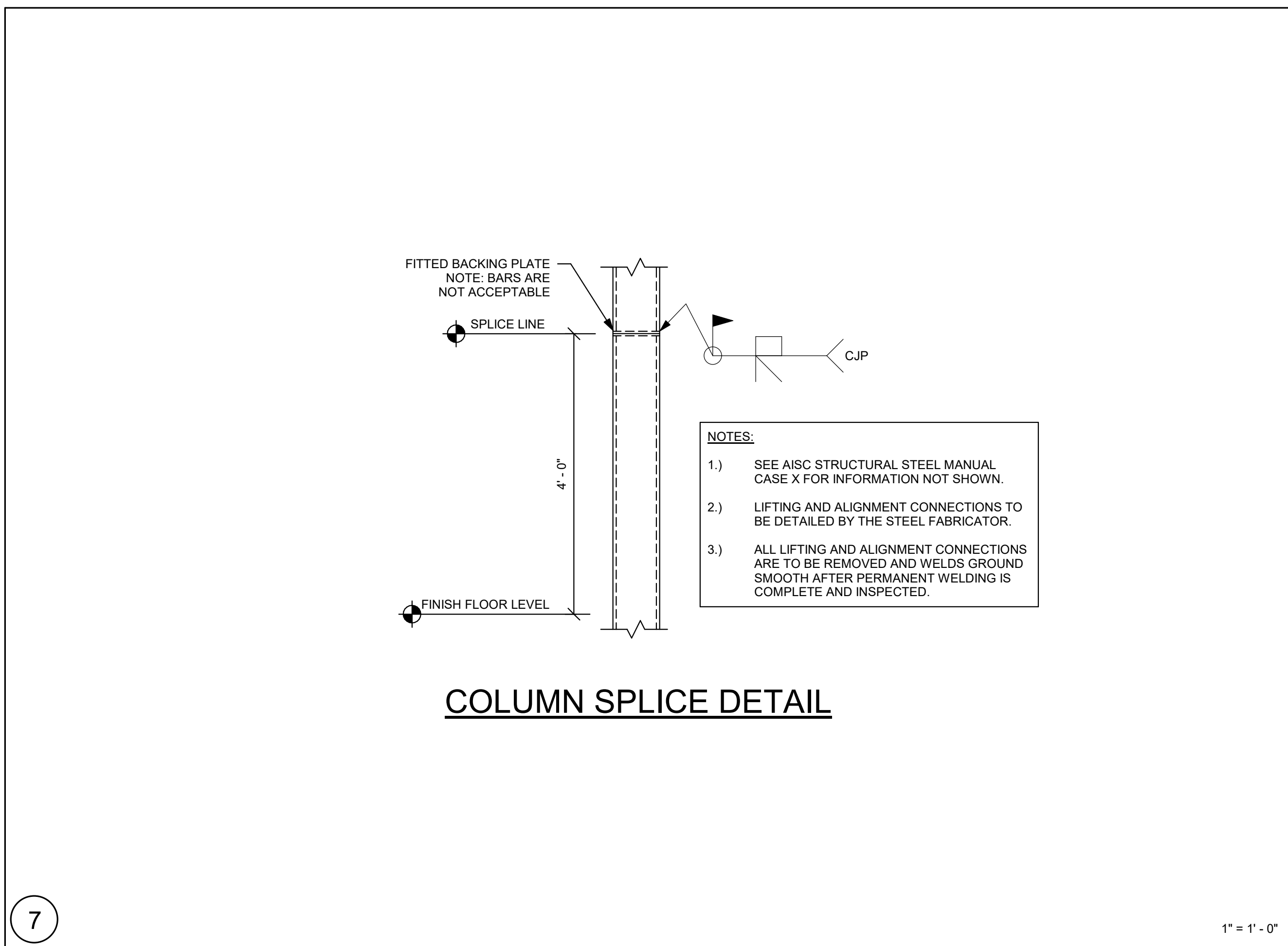
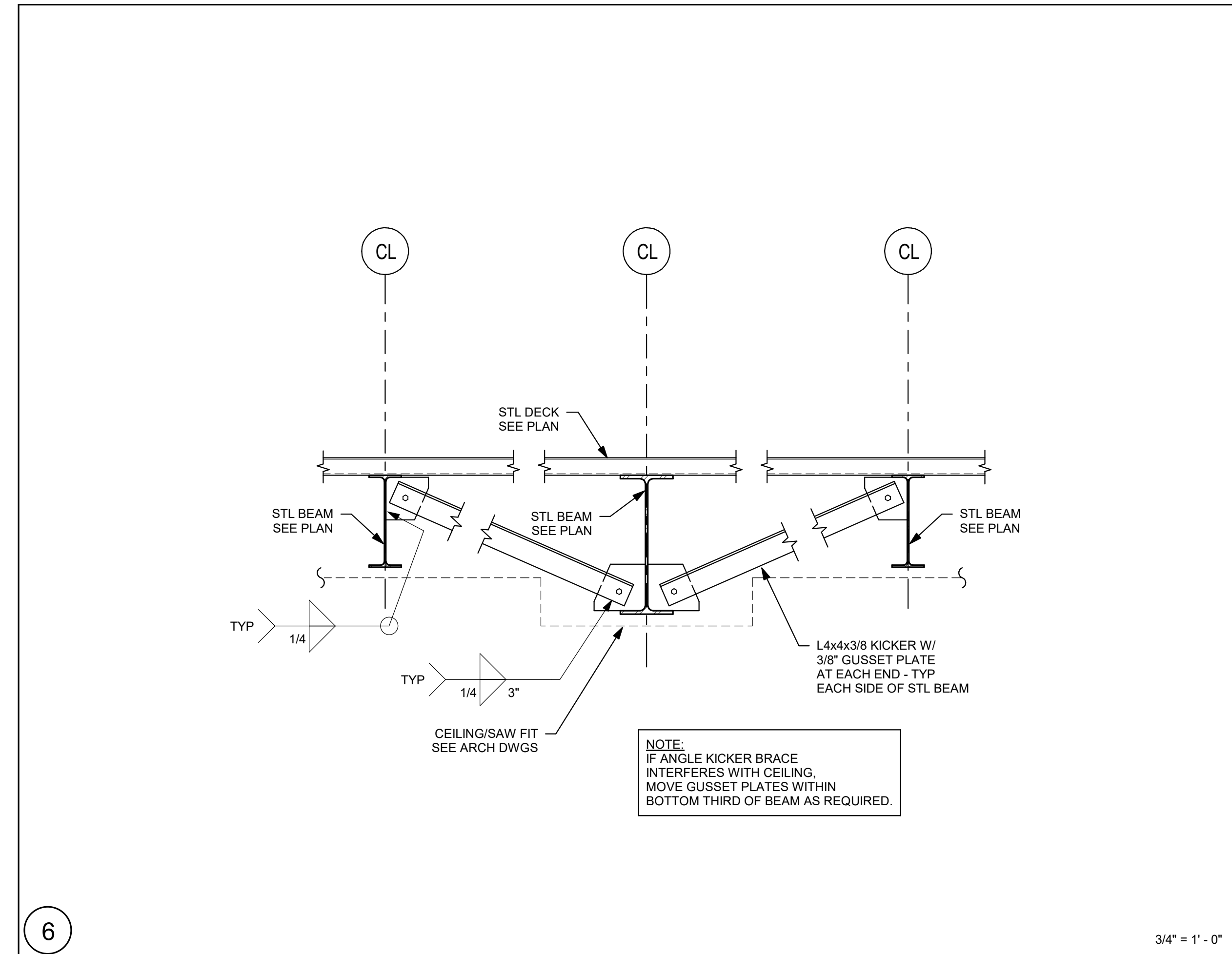
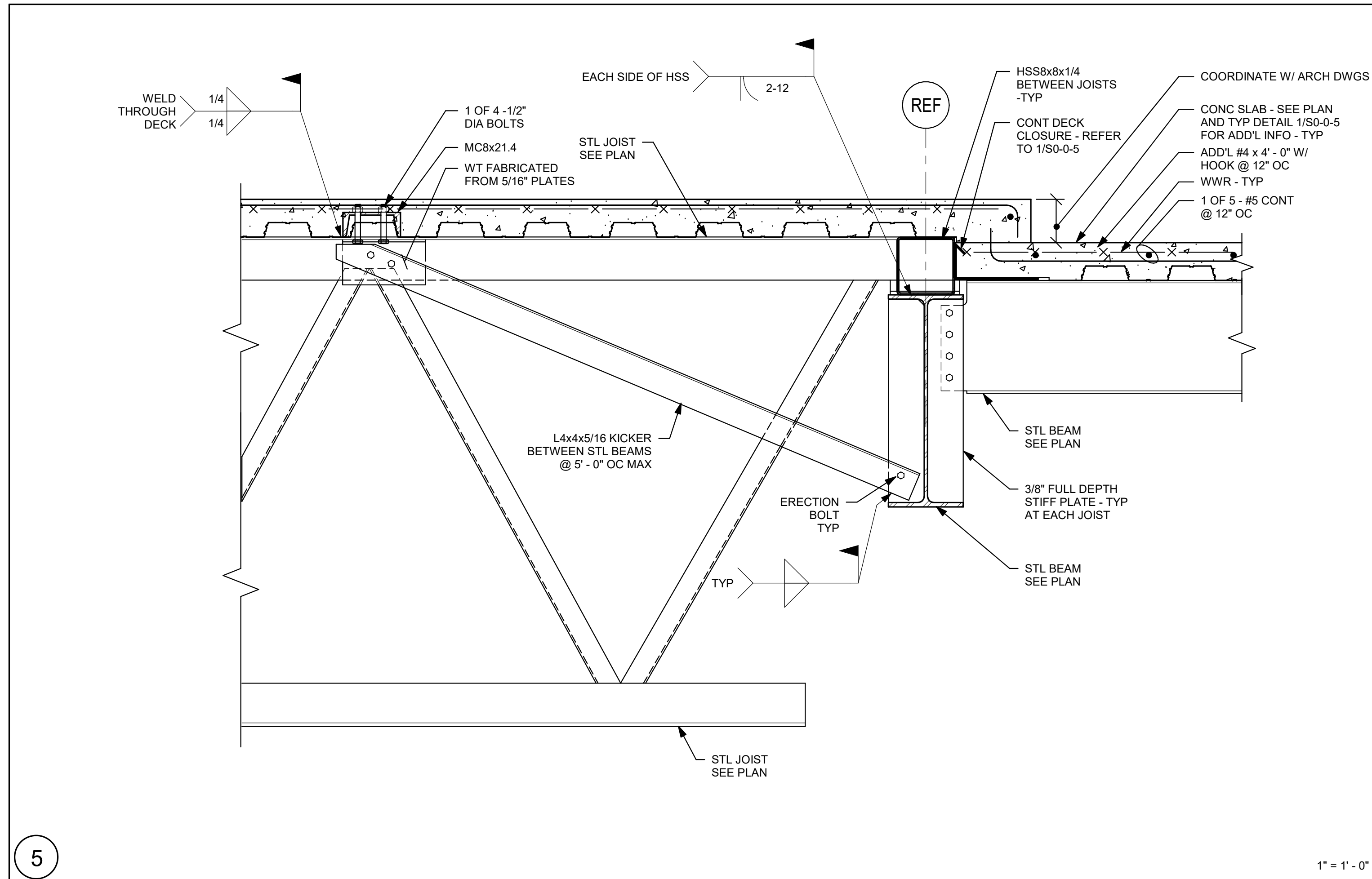
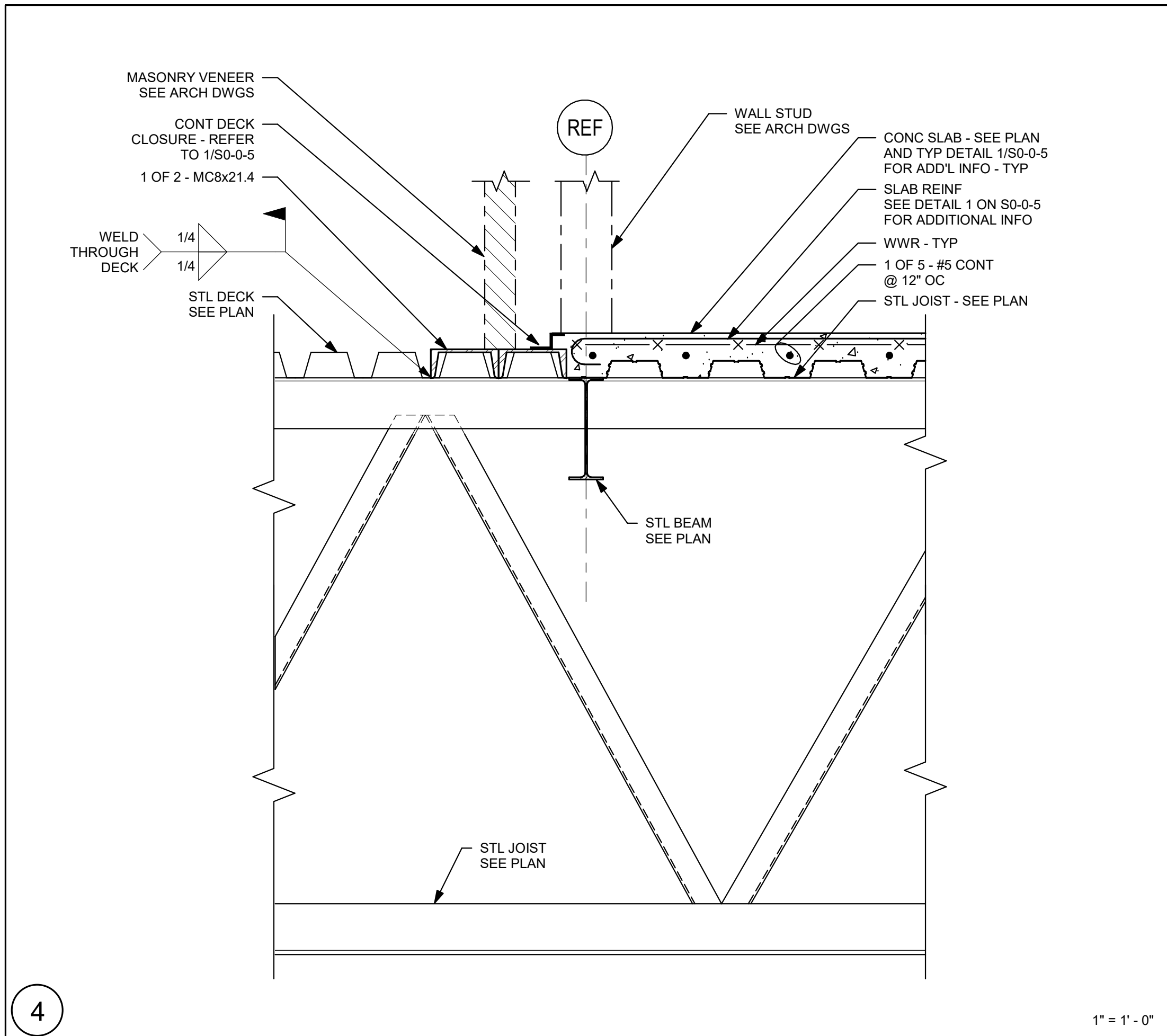
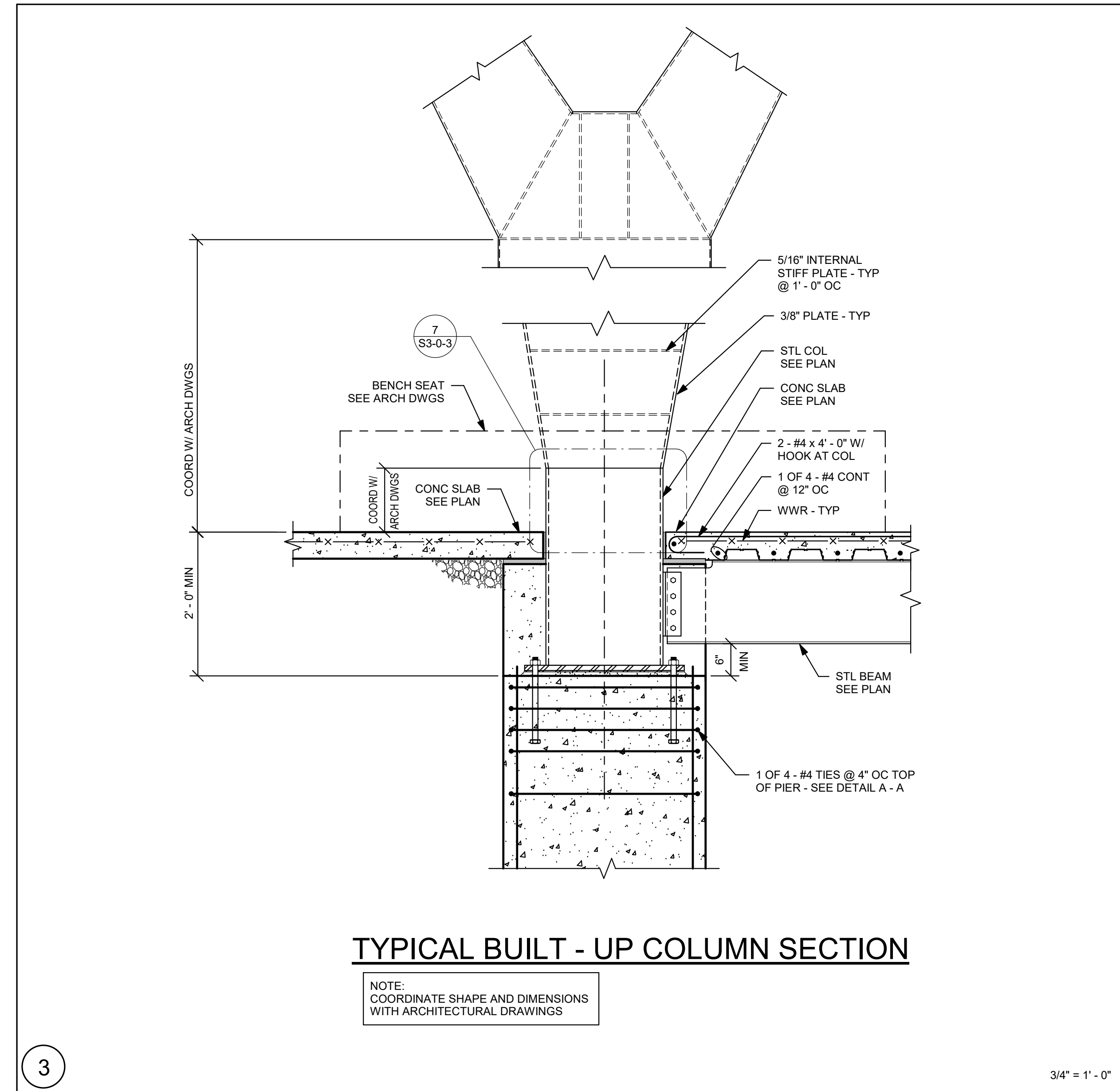
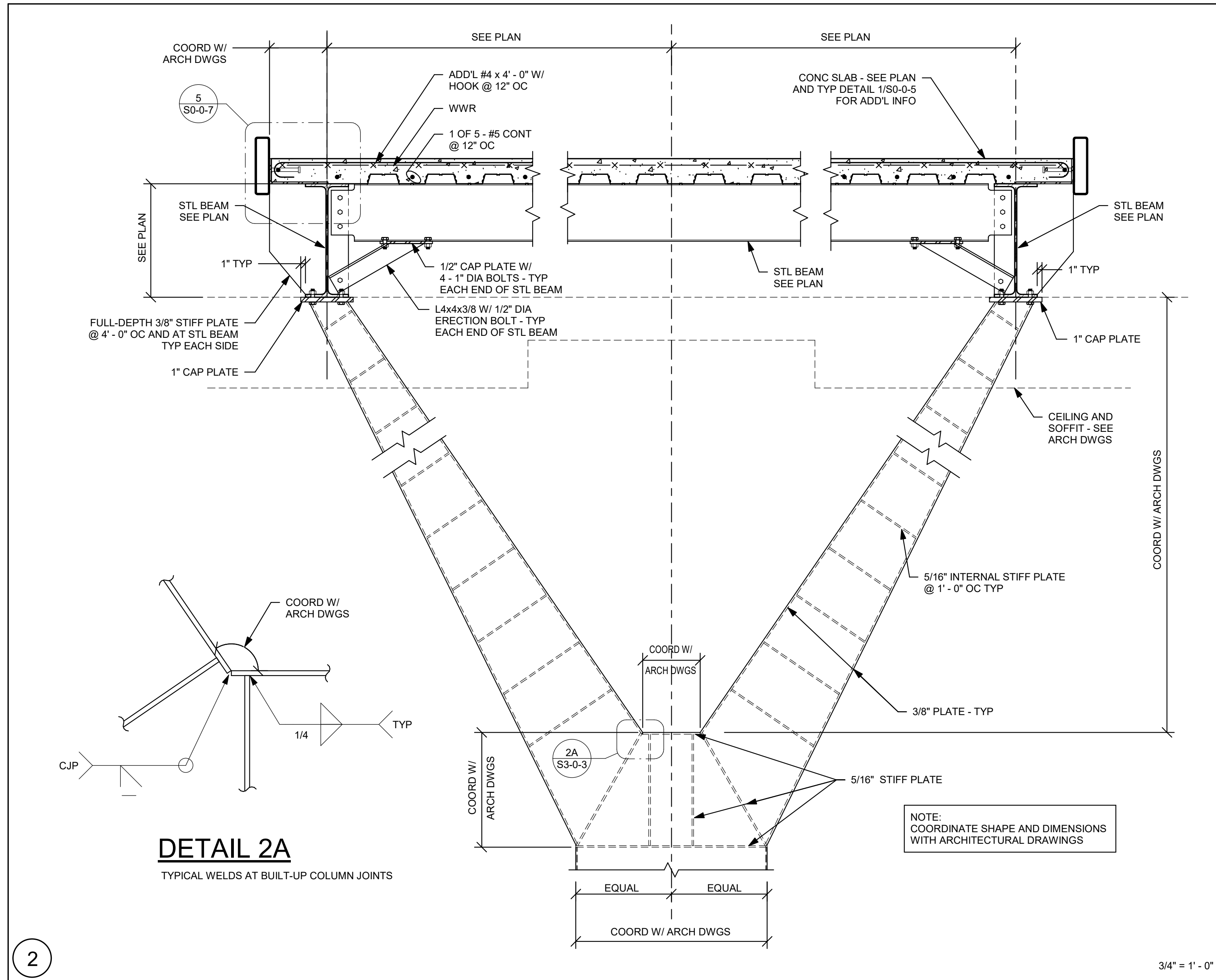
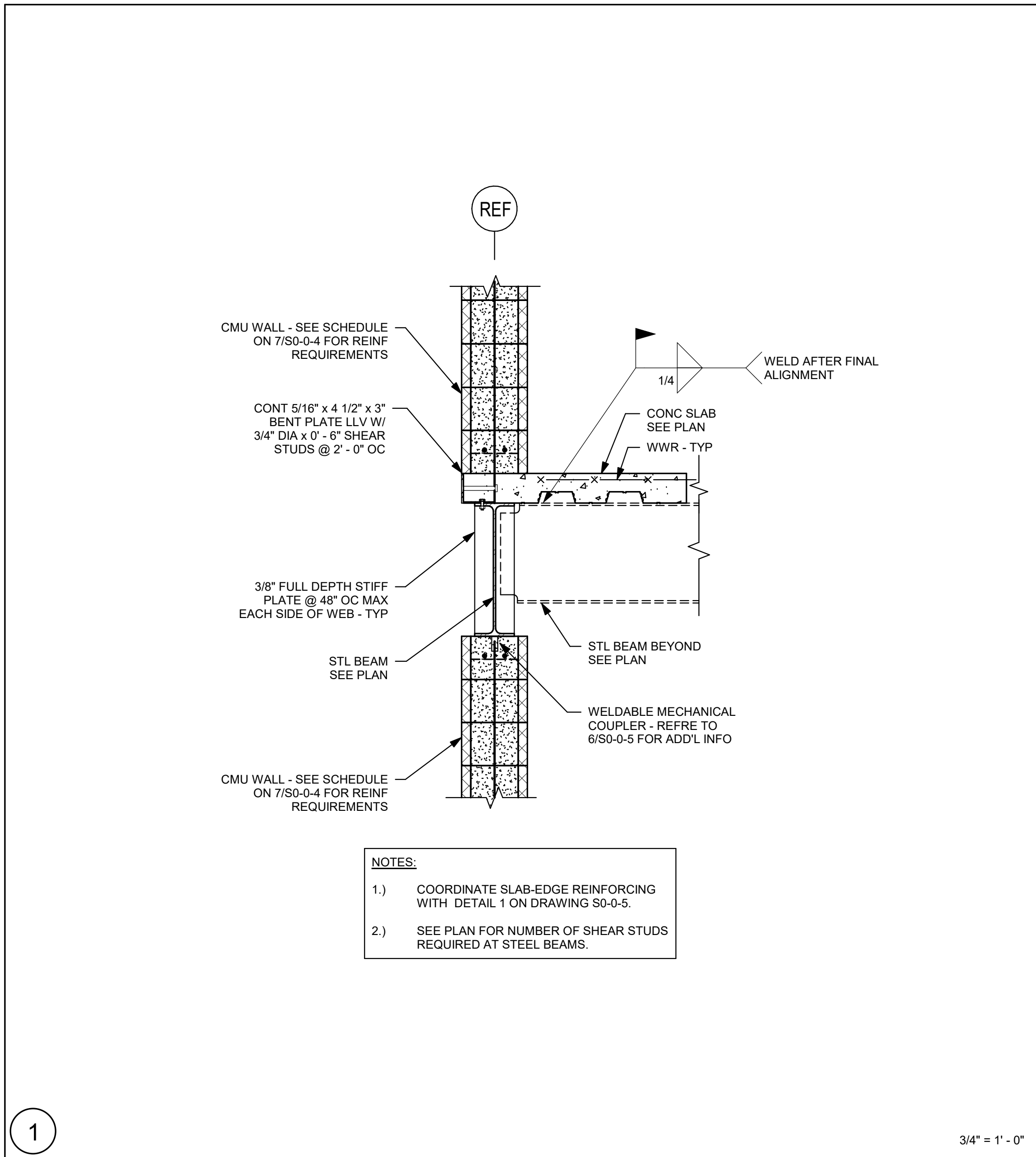
PROJECT NORTH  
MAGNETIC NORTH



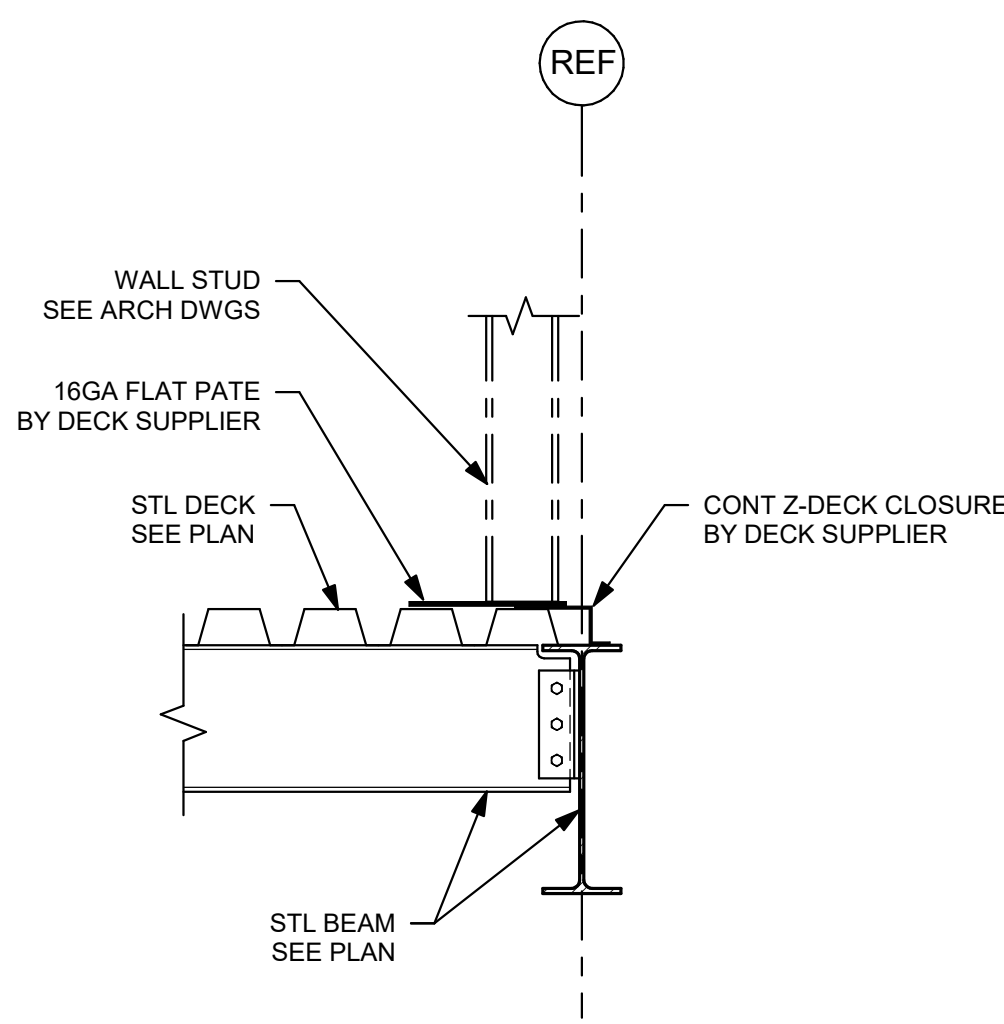
**SECTIONS**

Scale: As indicated  
Job No.: 20202  
Drawn By: EDG  
Date: 01/13/2023  
**S3-0-2**

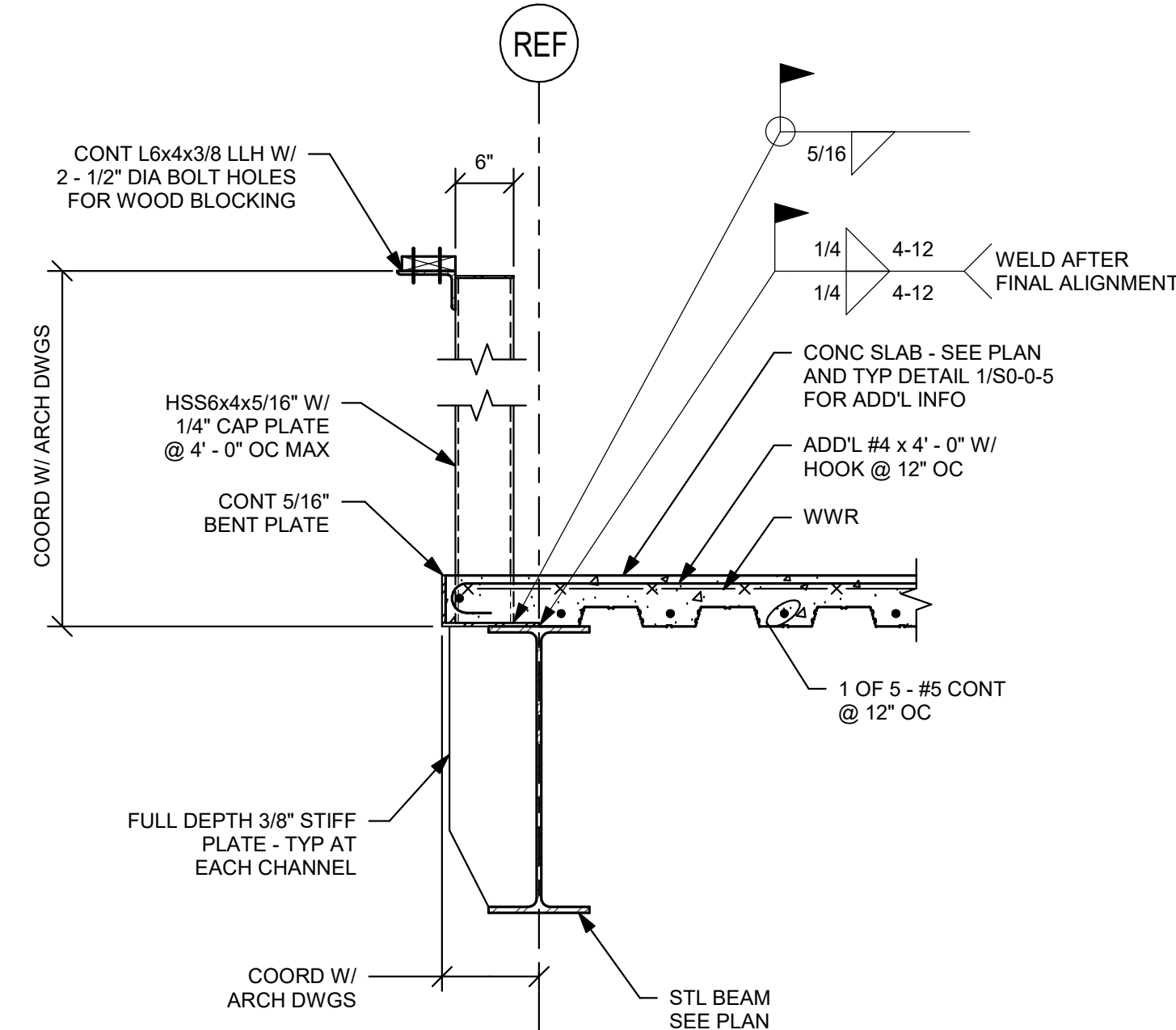




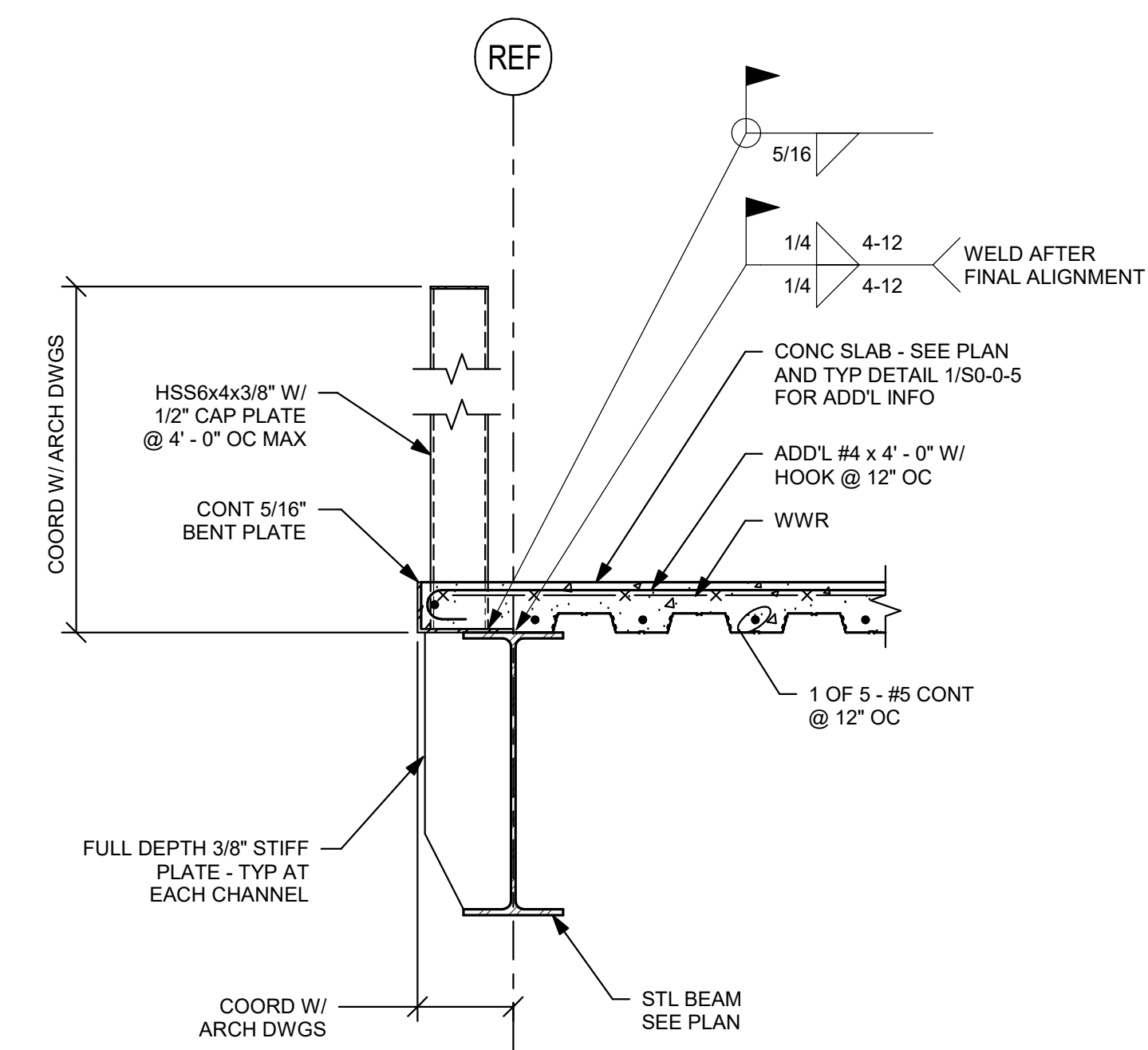




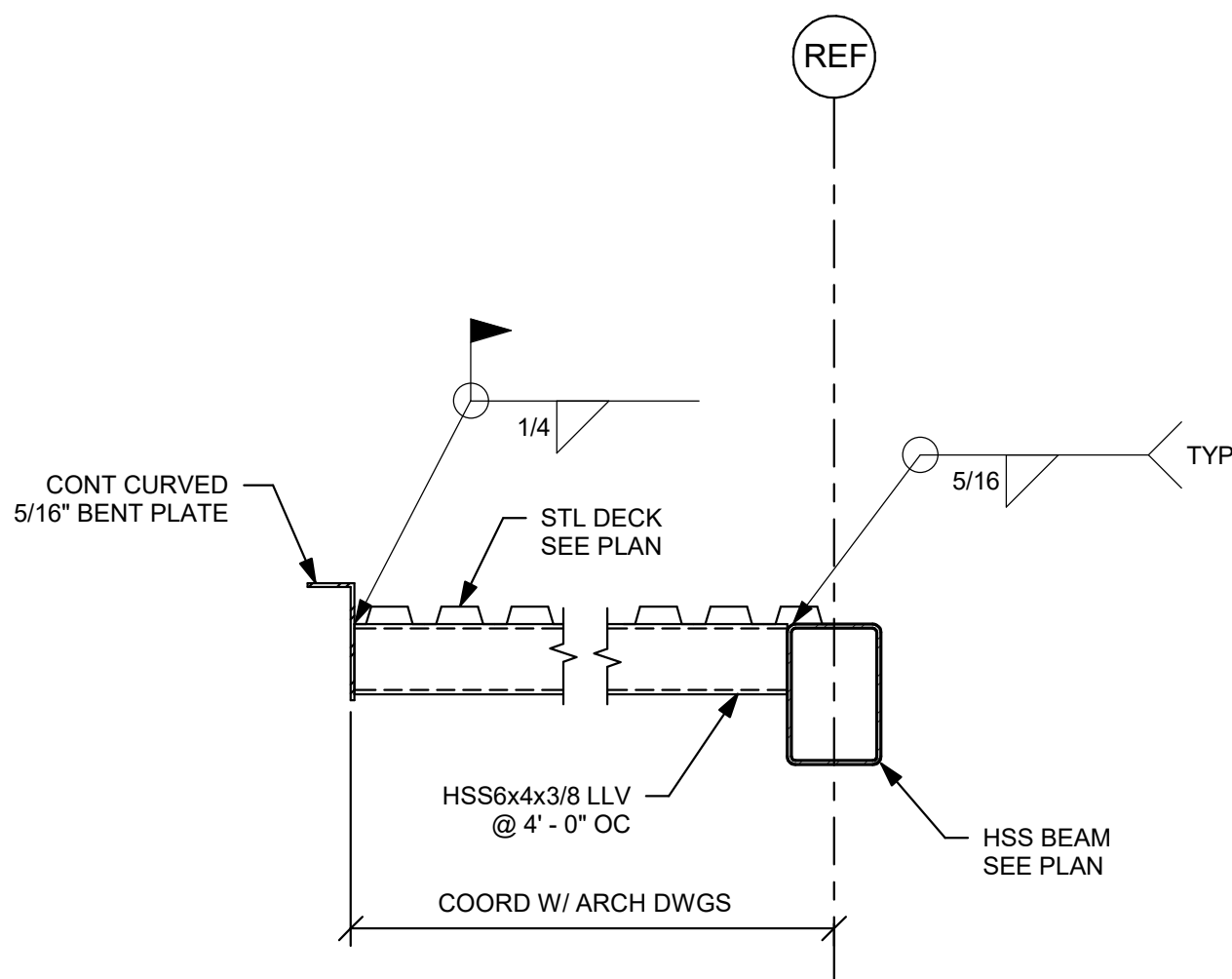
3/4" = 1'-0"



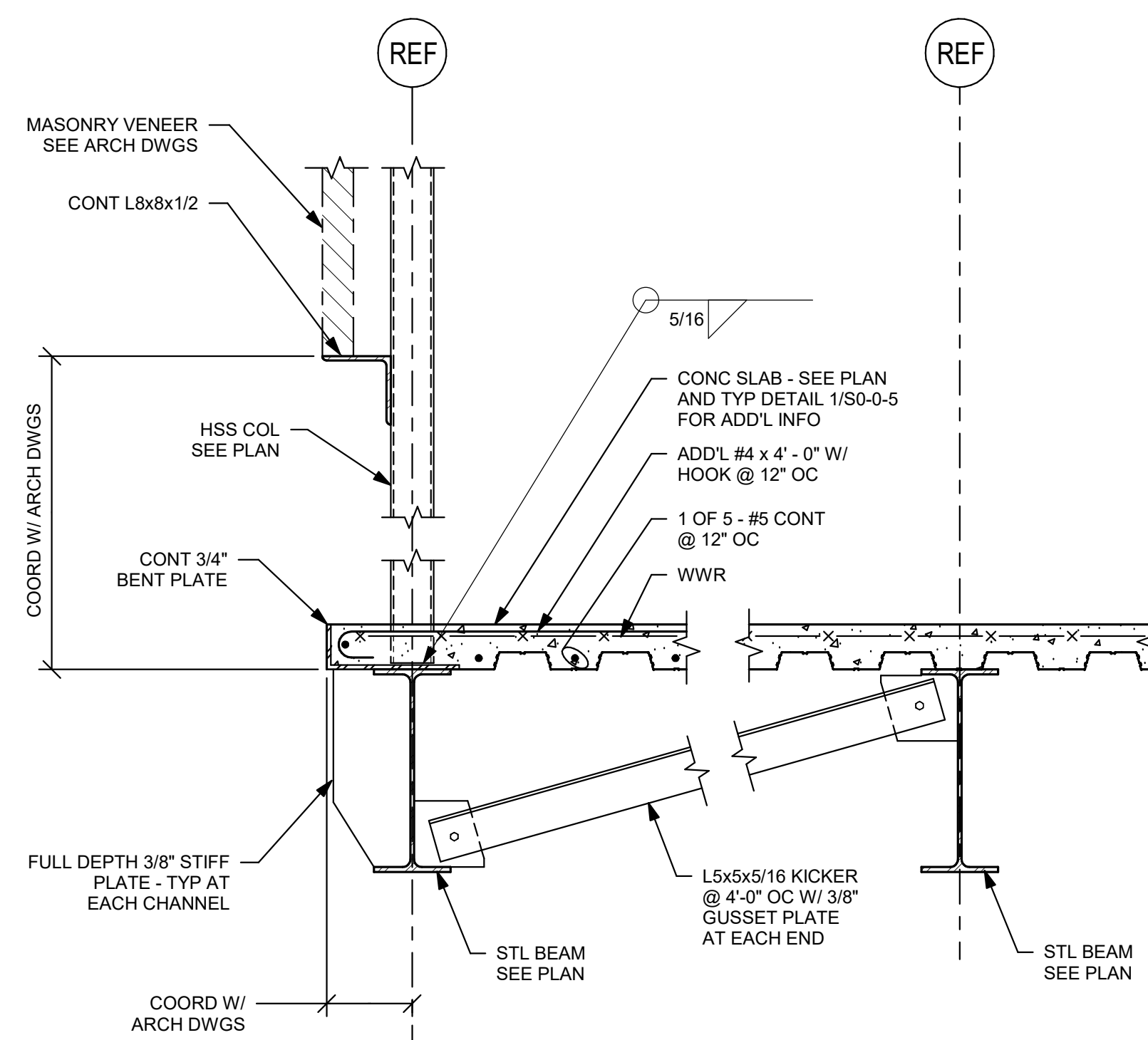
3/4" = 1'-0"



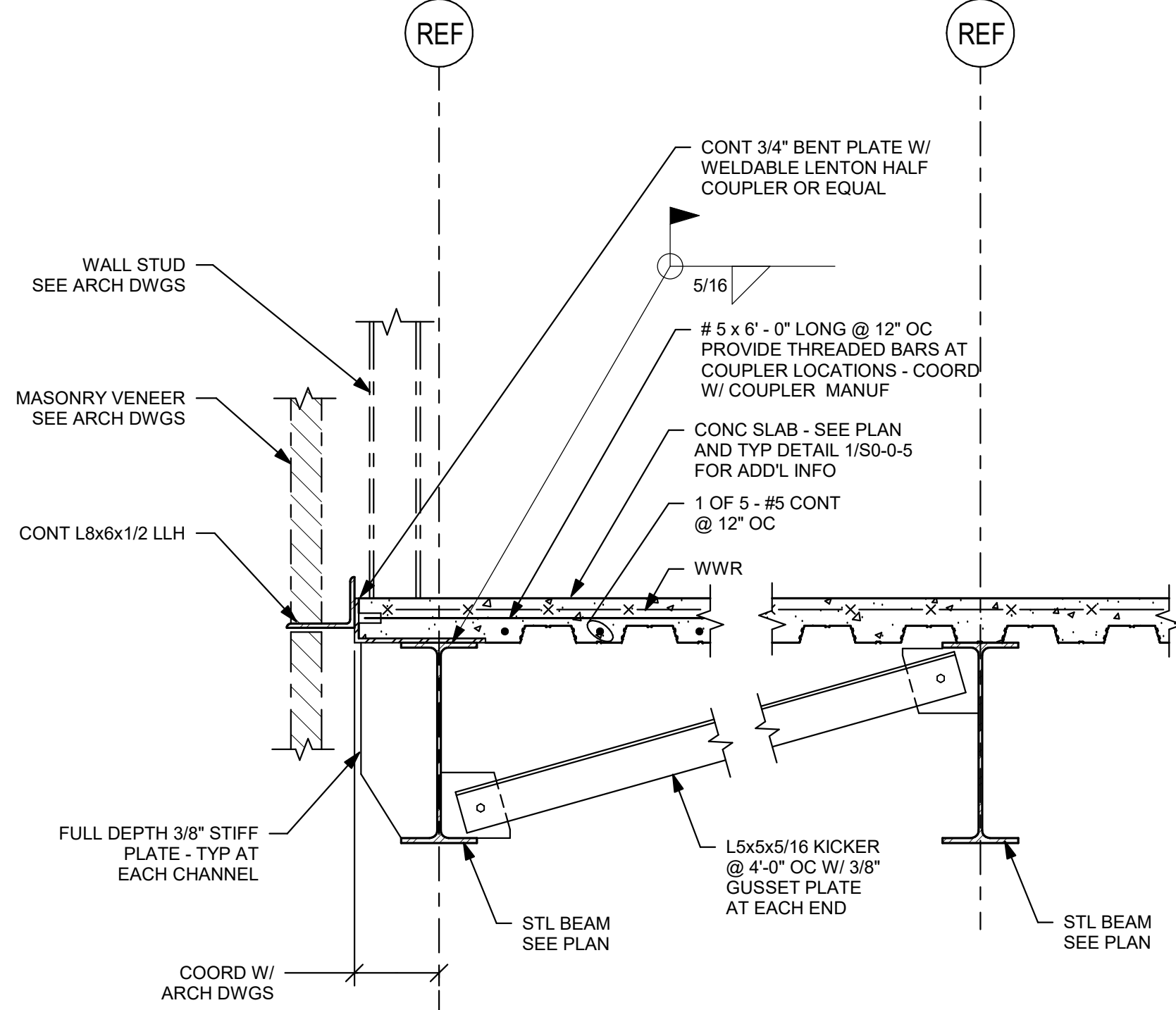
3/4" = 1'-0"



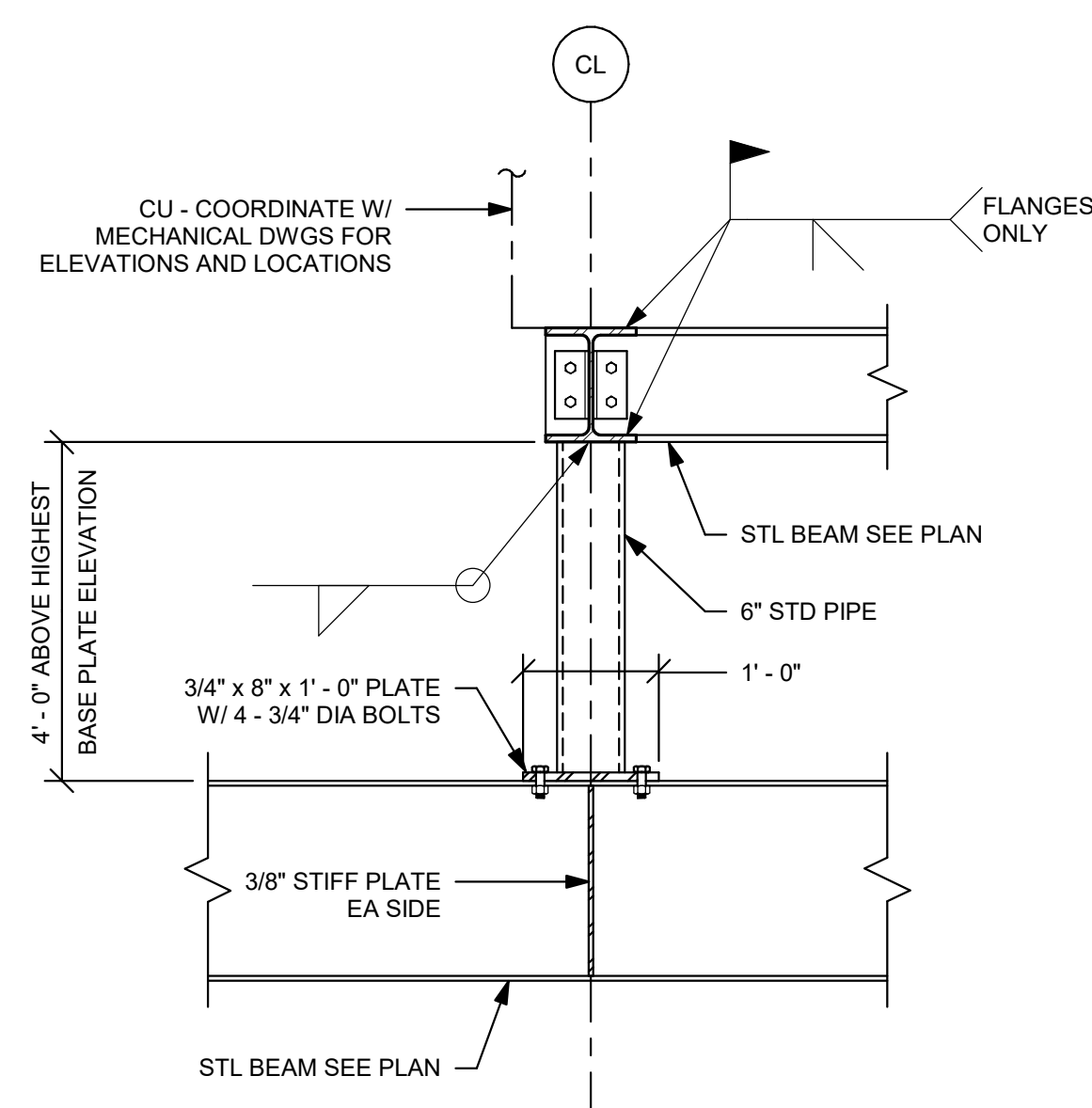
1" = 1'-0"



1" = 1'-0"



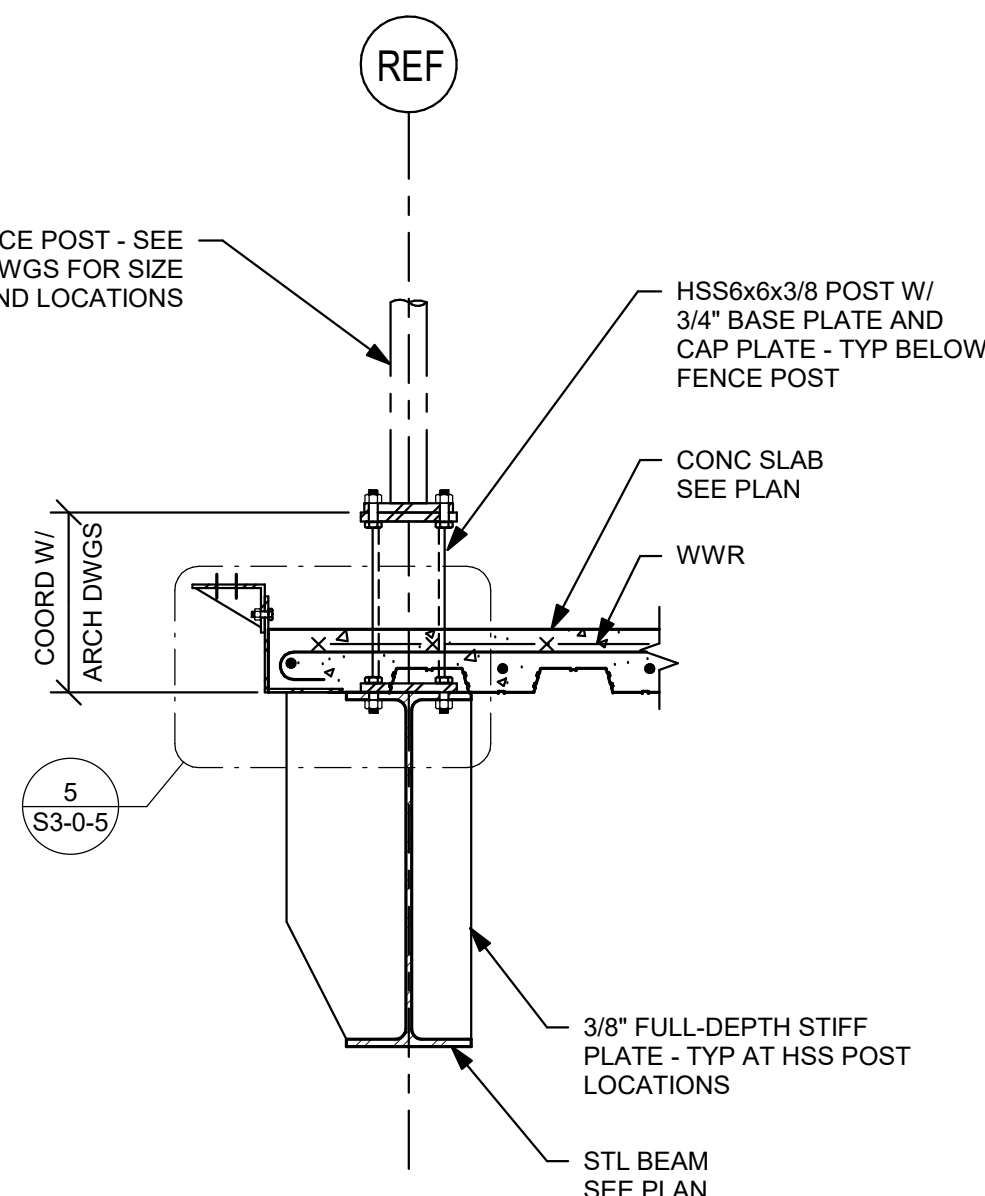
1 1/2" = 1'-0"



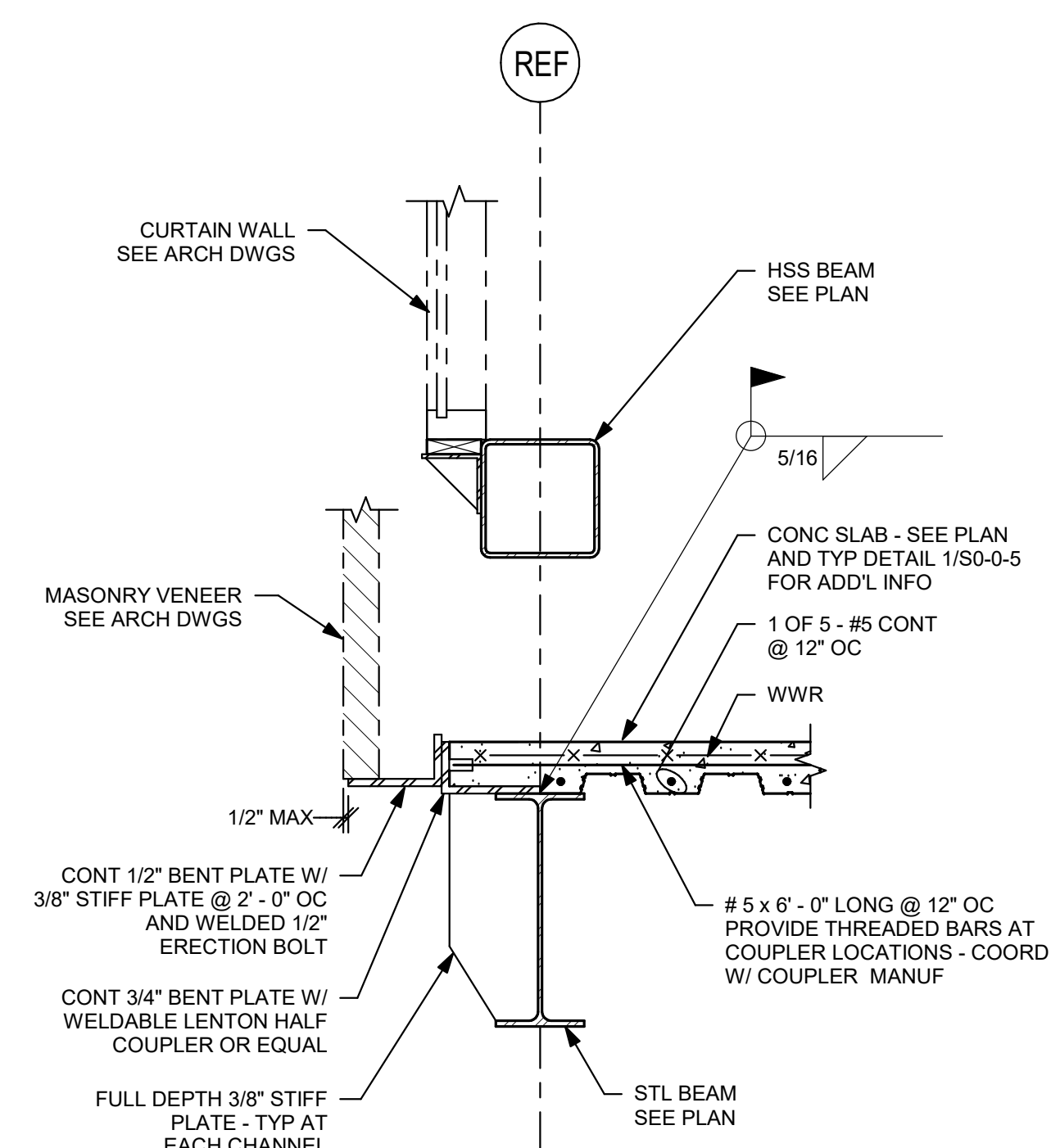
### TYPICAL SUPPORT OF ROOF TOP MECHANICAL UNIT DETAIL

- NOTES:  
1.) ALL EXPOSED STEEL TO BE HOT-DIP GALVANIZED.  
2.) TOUCH UP ALL FIELD WELDS WITH ZINC RICH PAINT

1" = 1'-0"



3/4" = 1'-0"

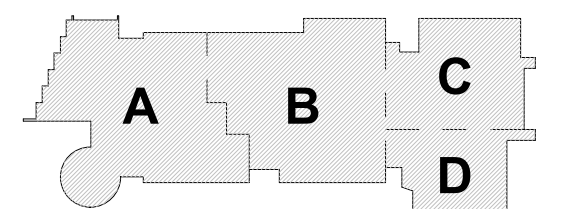


3/4" = 1'-0"

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MSBA 60% CD Submission

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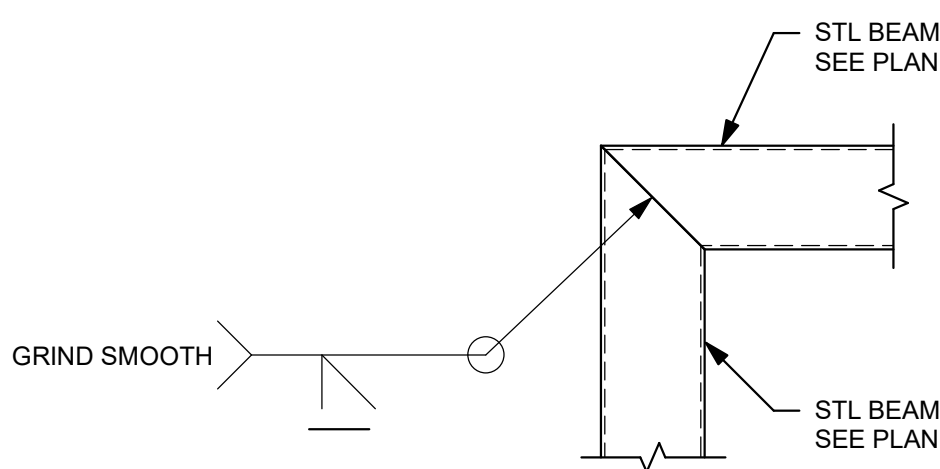


PROJECT NORTH  
MAGNETIC NORTH

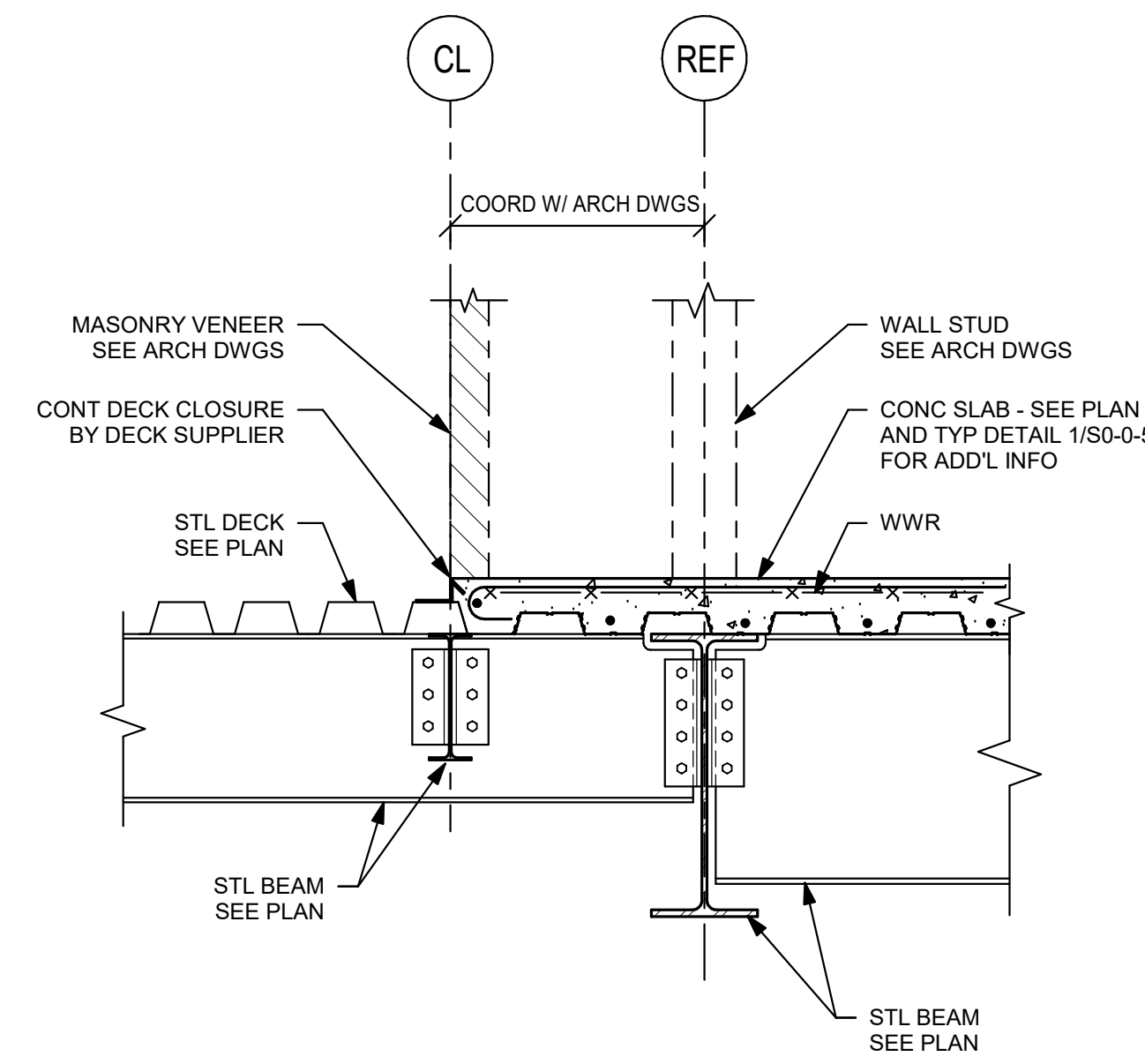
### SECTIONS

Scale: 3/4" = 1'-0"  
Job No.: 20202  
Drawn By: EDG  
Date: 01/13/2023  
**S3-0-4**

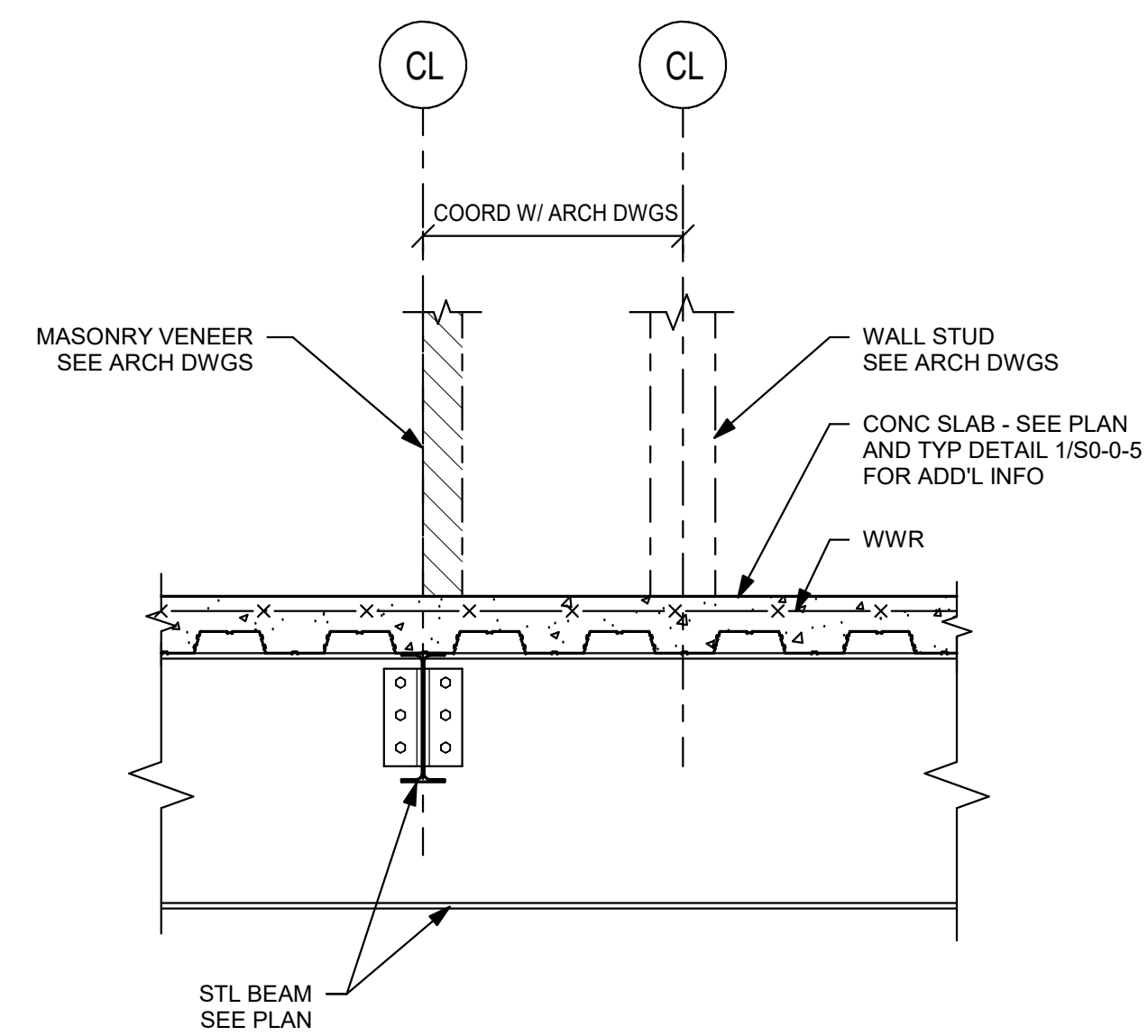




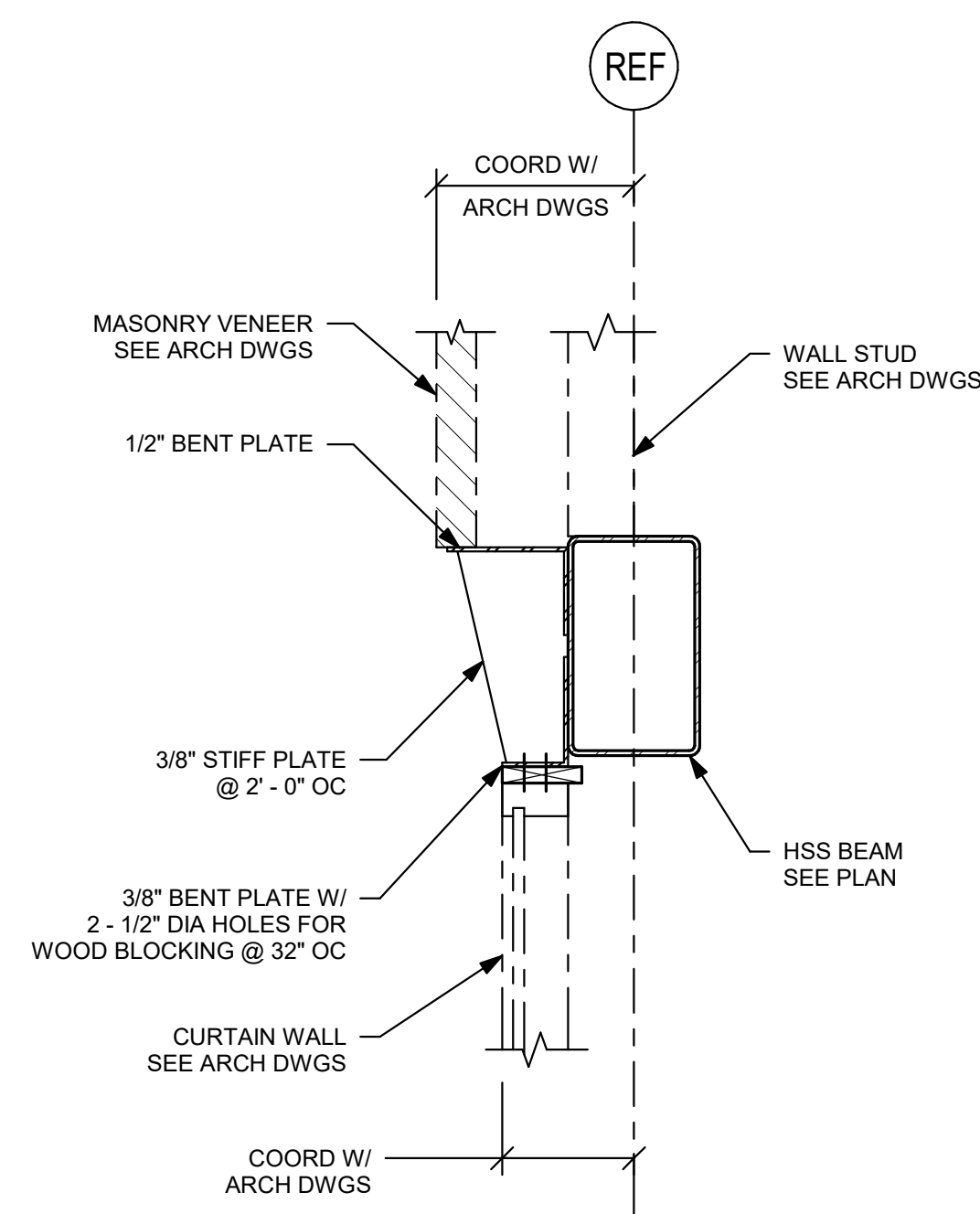
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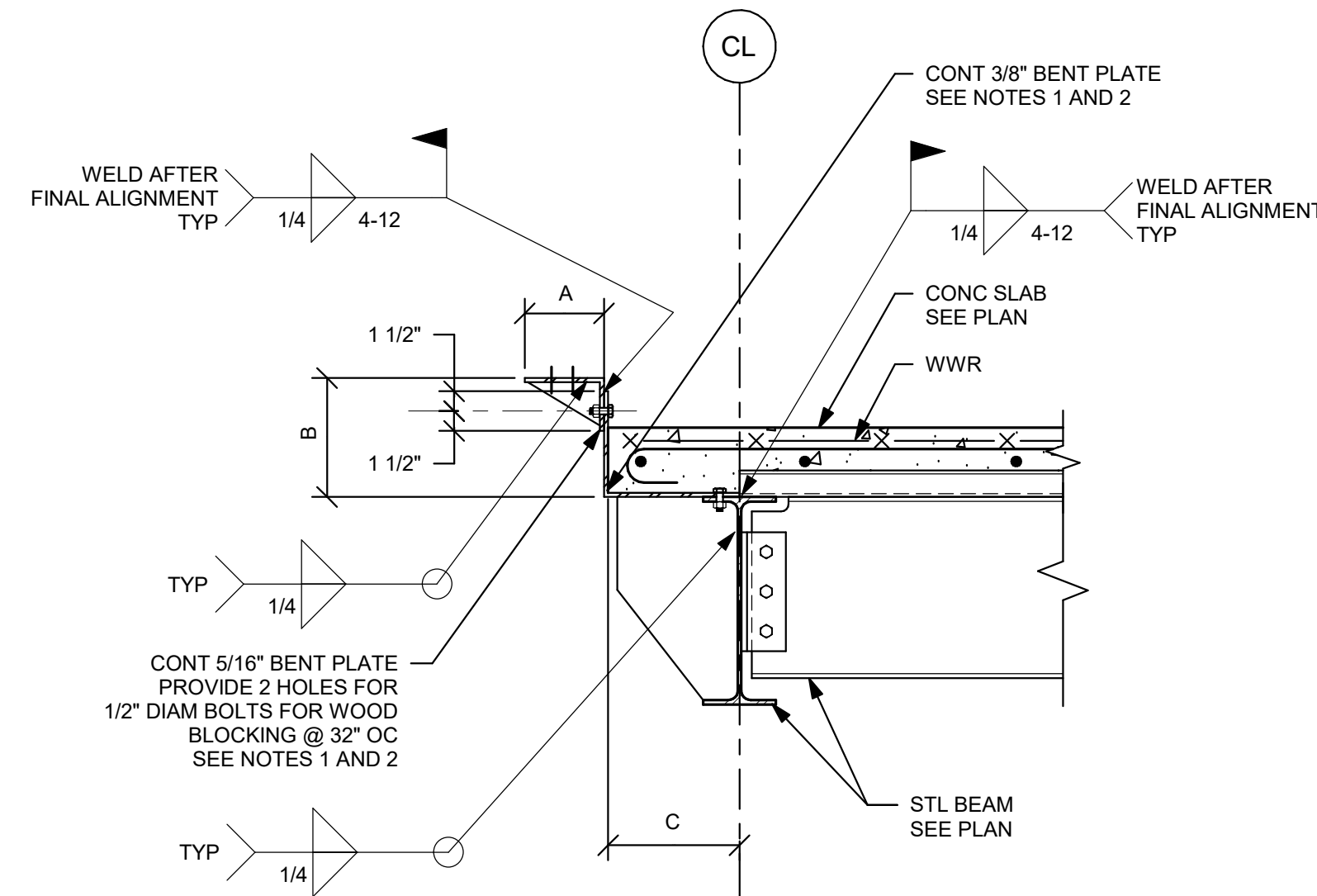
3/4" = 1' - 0"



3/4" = 1' - 0"

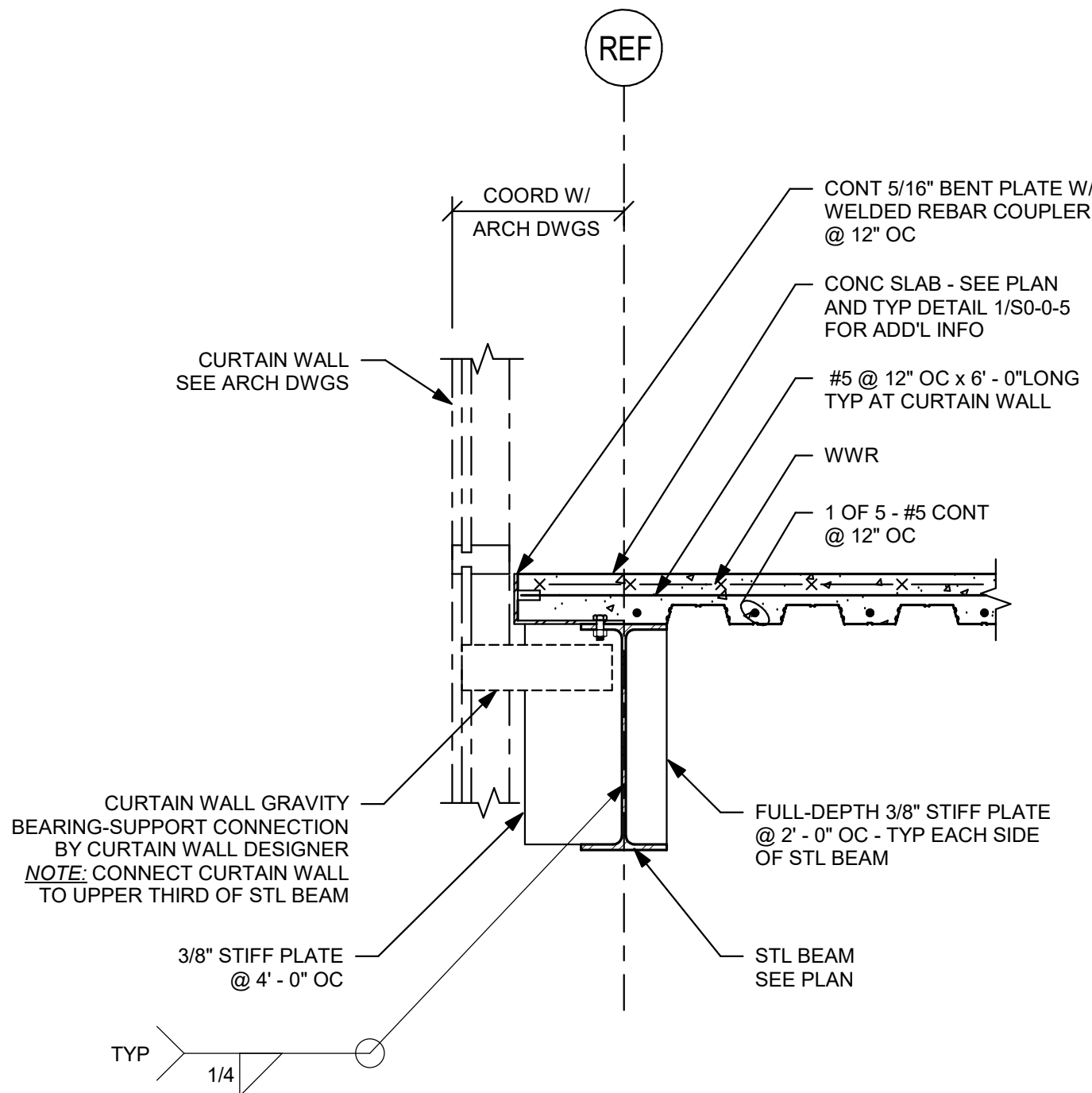


1" = 1' - 0"

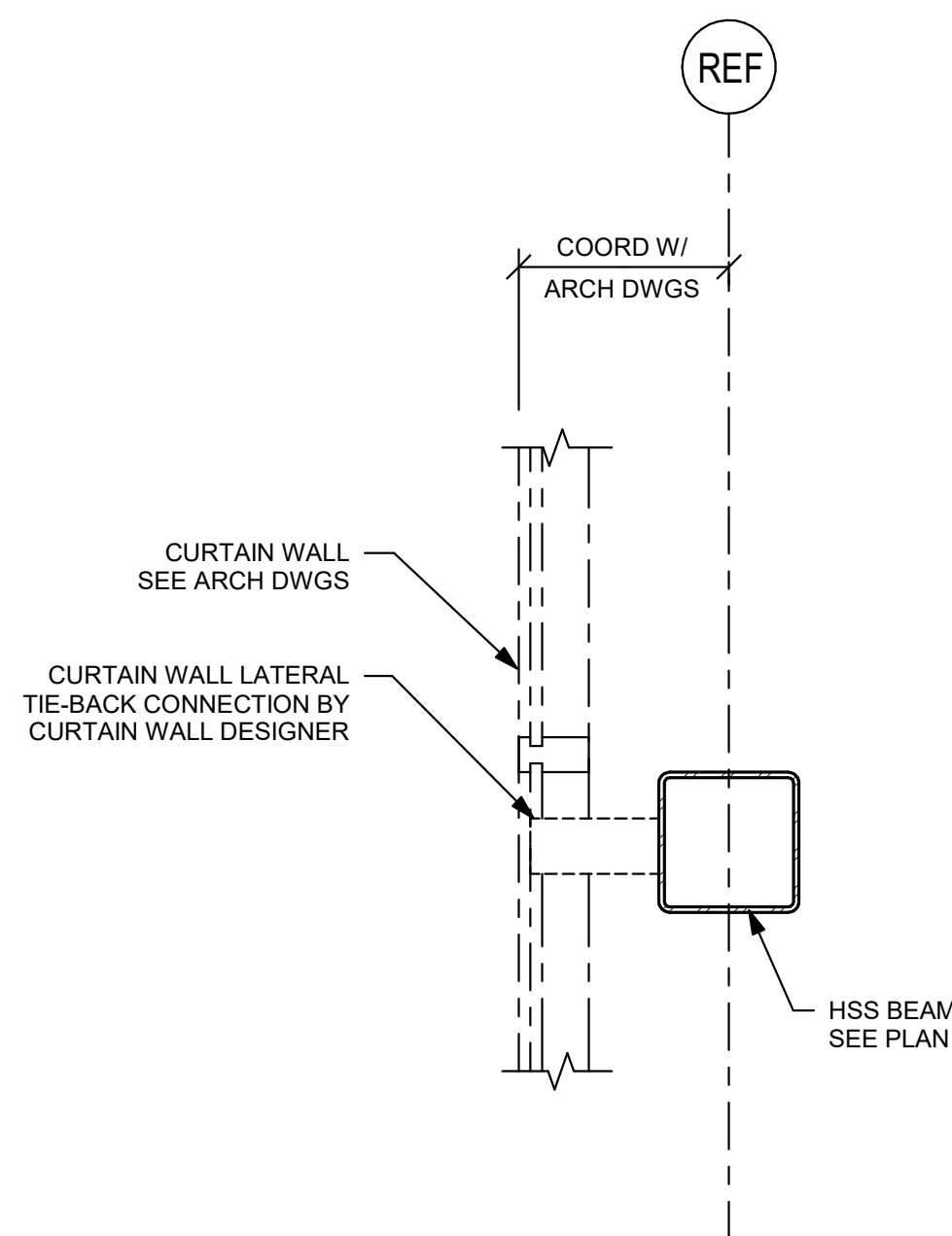


- NOTES:
- COORDINATE ALL ROOF-EDGE ANGLE AND BENT PLATE SIZES AND EXTENTS WITH ARCHITECTURAL DETAILS.
  - PROVIDE 3/8" STIFFENER PLATES @ 4' - 0" OC AS SHOWN WHERE ROOF-EDGE BENT PLATE DIMENSIONS "A" AND/OR "B" ARE EQUAL TO OR GREATER THAN 7'.
  - PROVIDE 3/8" STIFFENER PLATES @ 4' - 0" OC AS SHOWN WHERE ROOF-EDGE BENT PLATE DIMENSION "C" IS EQUAL TO OR GREATER THAN 11' - 0".
  - EXTEND ROOF EDGE ASSEMBLIES AROUND CORNERS AS REQUIRED PER DETAIL 10 ON DRAWING S0-0-7.

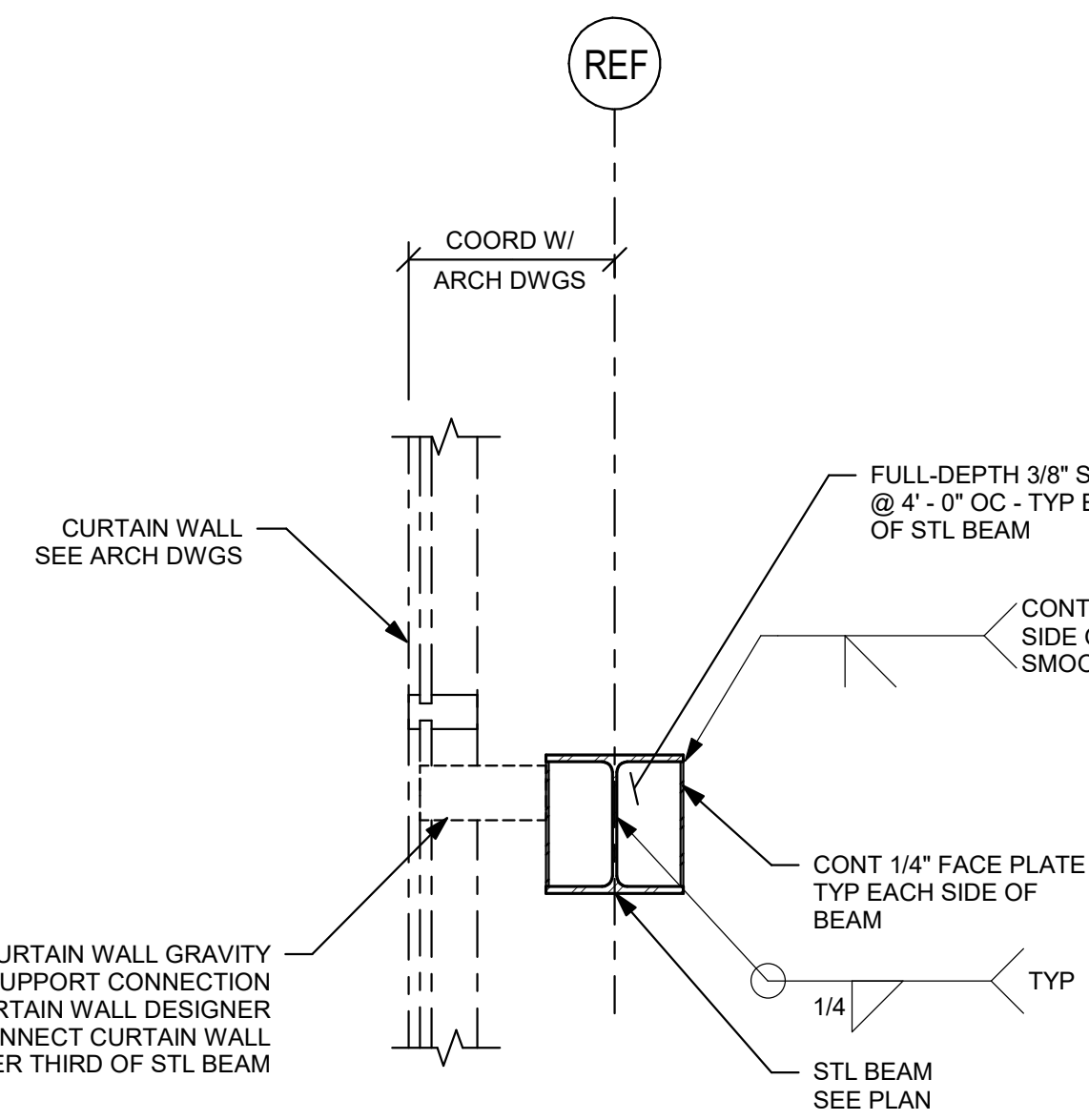
1" = 1' - 0"



1 1/2" = 1' - 0"

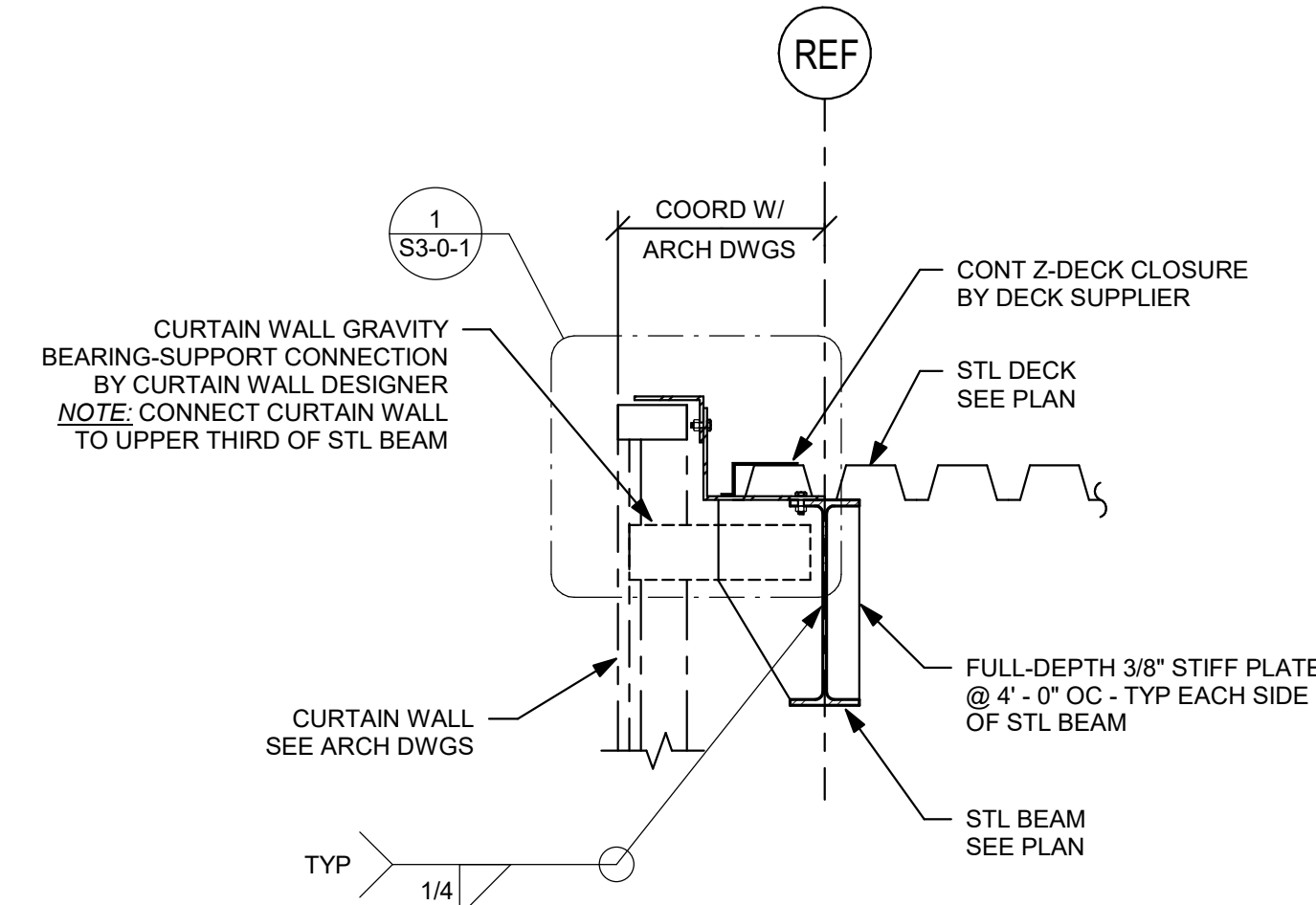


1" = 1' - 0"



NOTE:  
CUT AND GRIND SMOOTH EDGES OF STL BEAM TO REPLICATE CORNERS OF HSS MEMBERS.

3/4" = 1' - 0"



3/4" = 1' - 0"

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METRO TECH

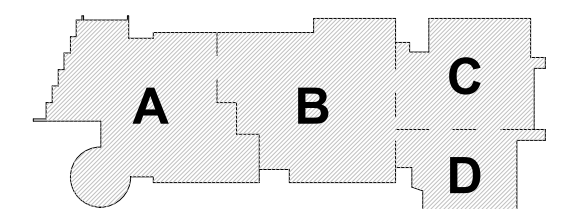
100 Hemlock Rd.  
Wakefield, MA 01880

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Malden, MA 02148  
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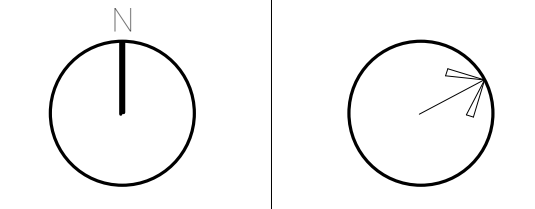
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Submission

01/13/2023



KEY PLAN

PROJECT NORTH  
MAGNETIC NORTH

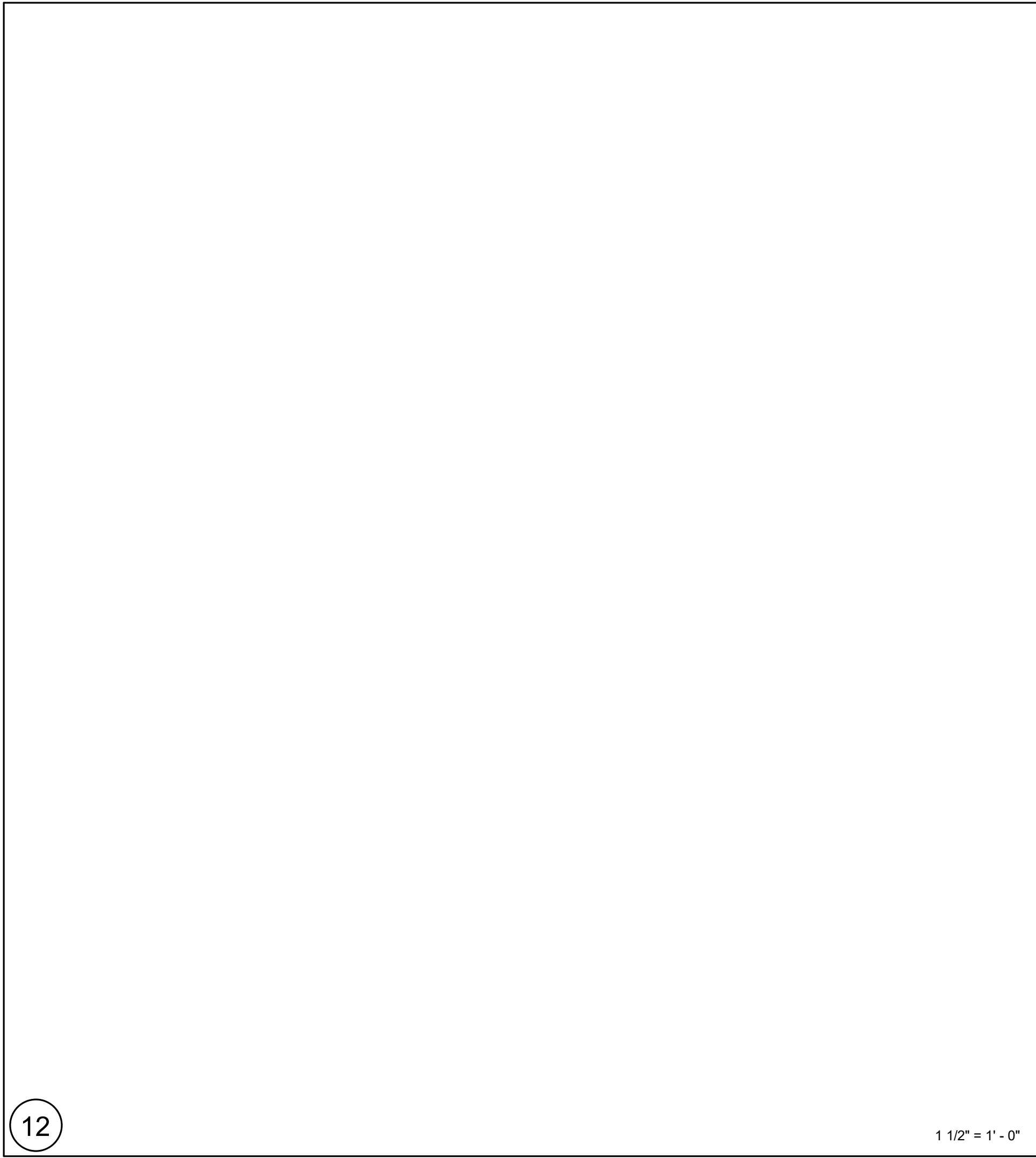
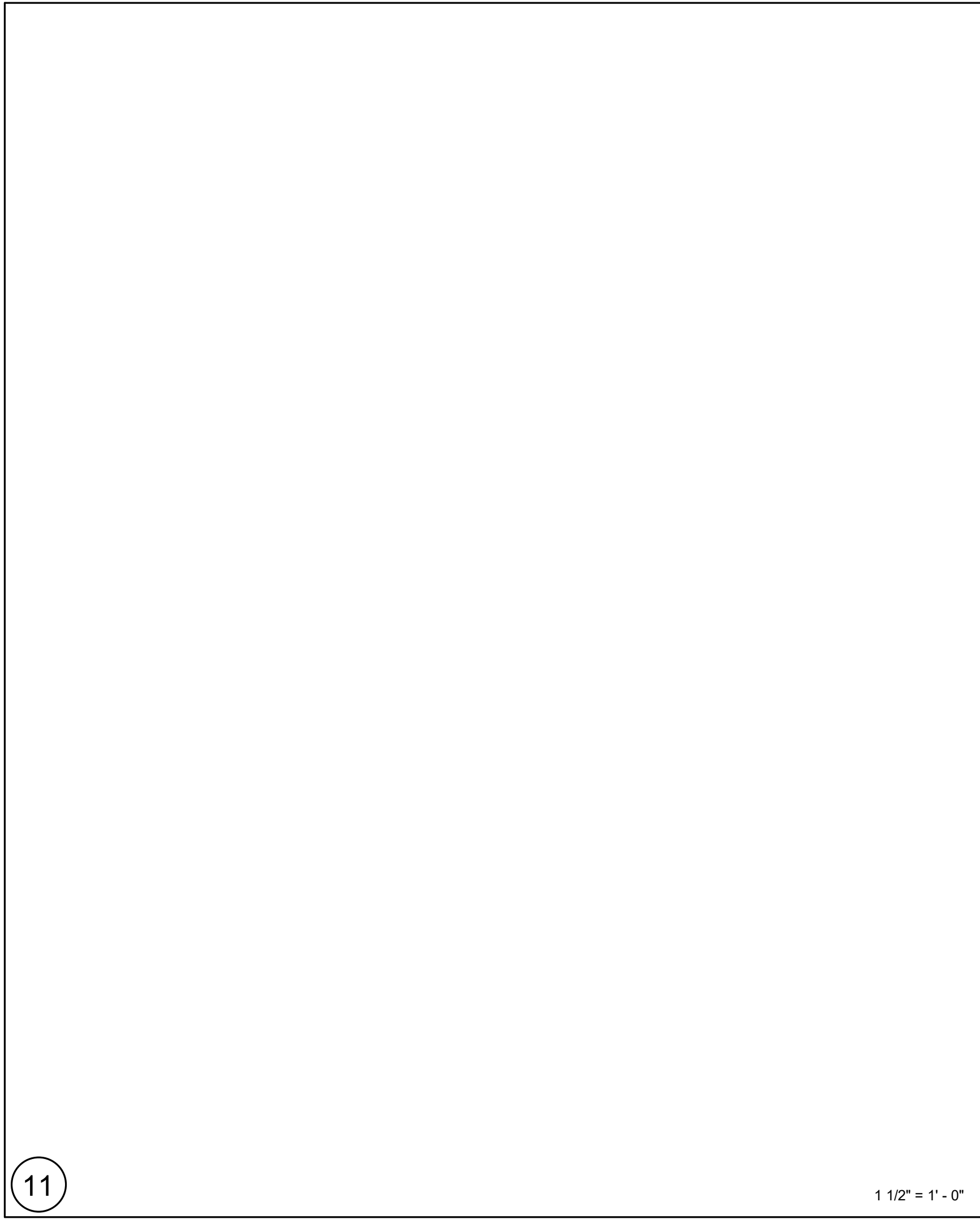
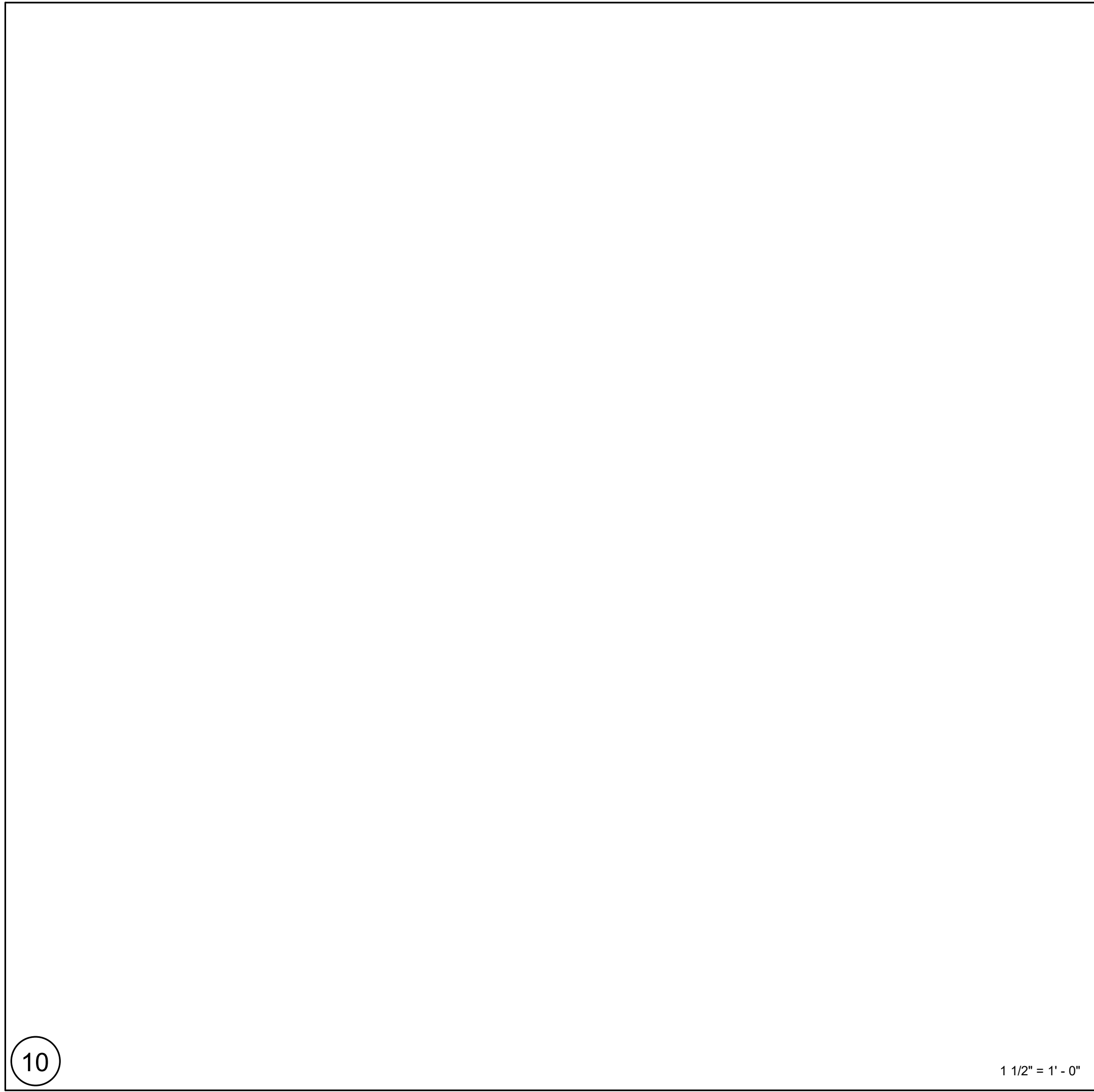
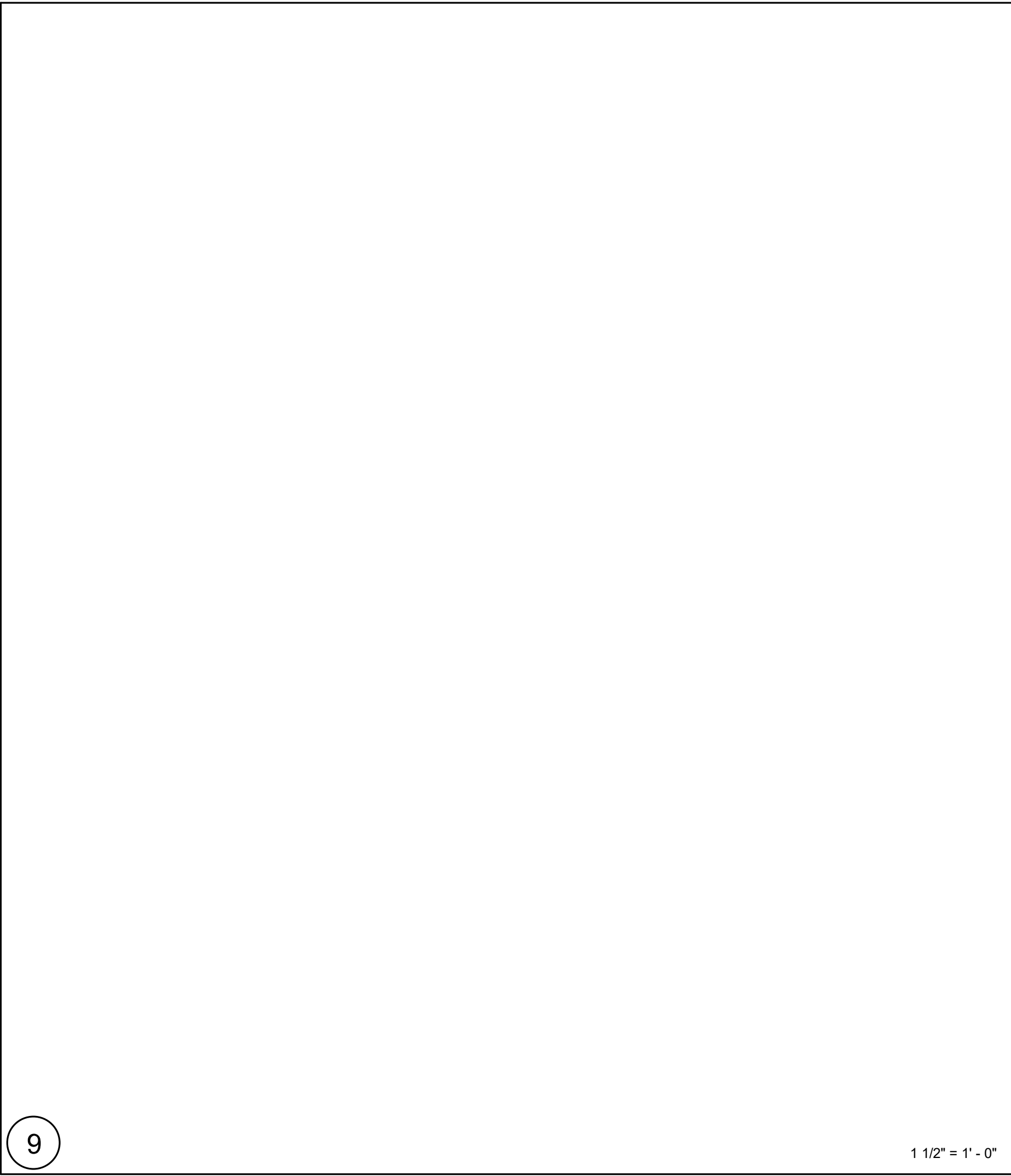
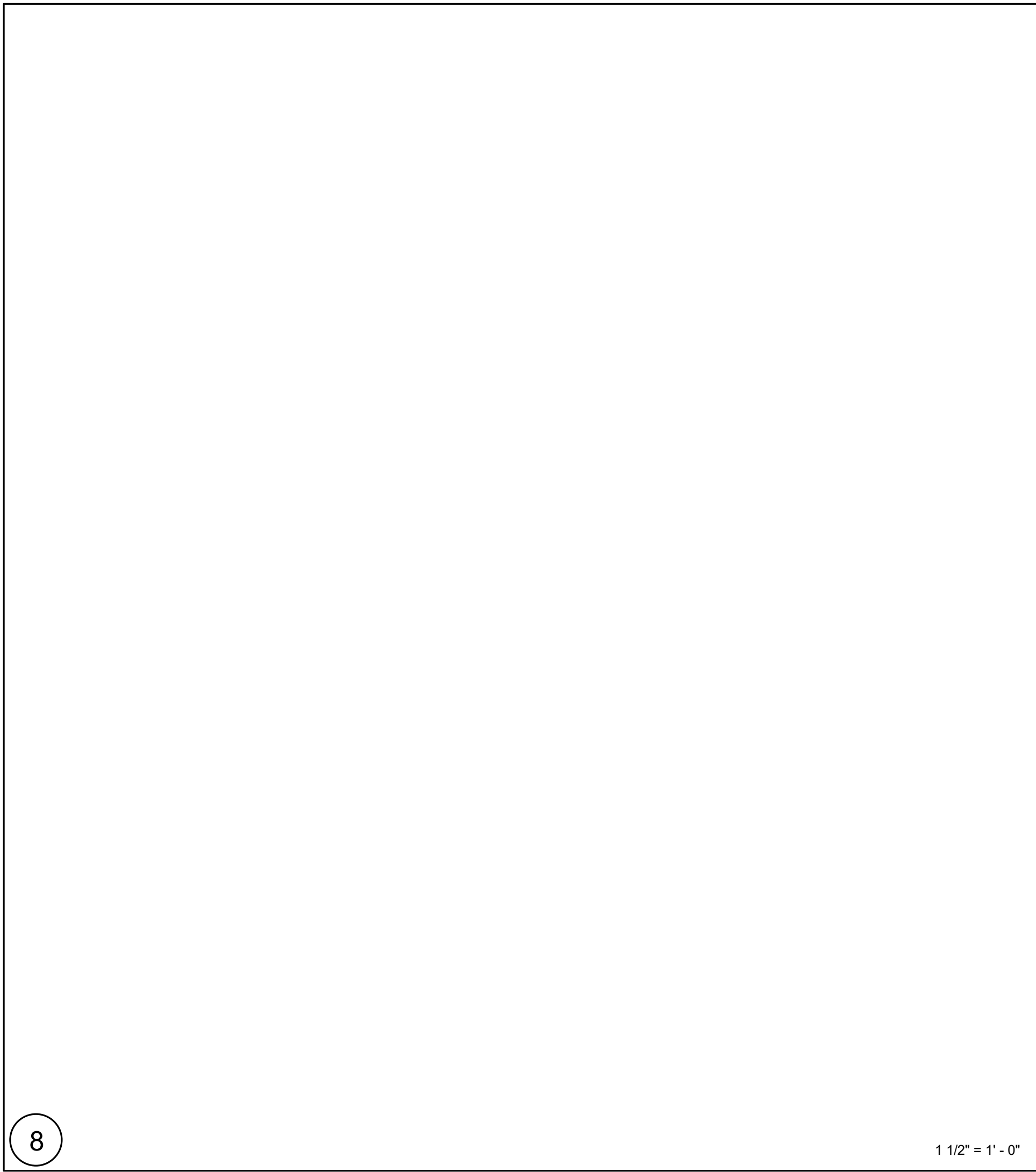
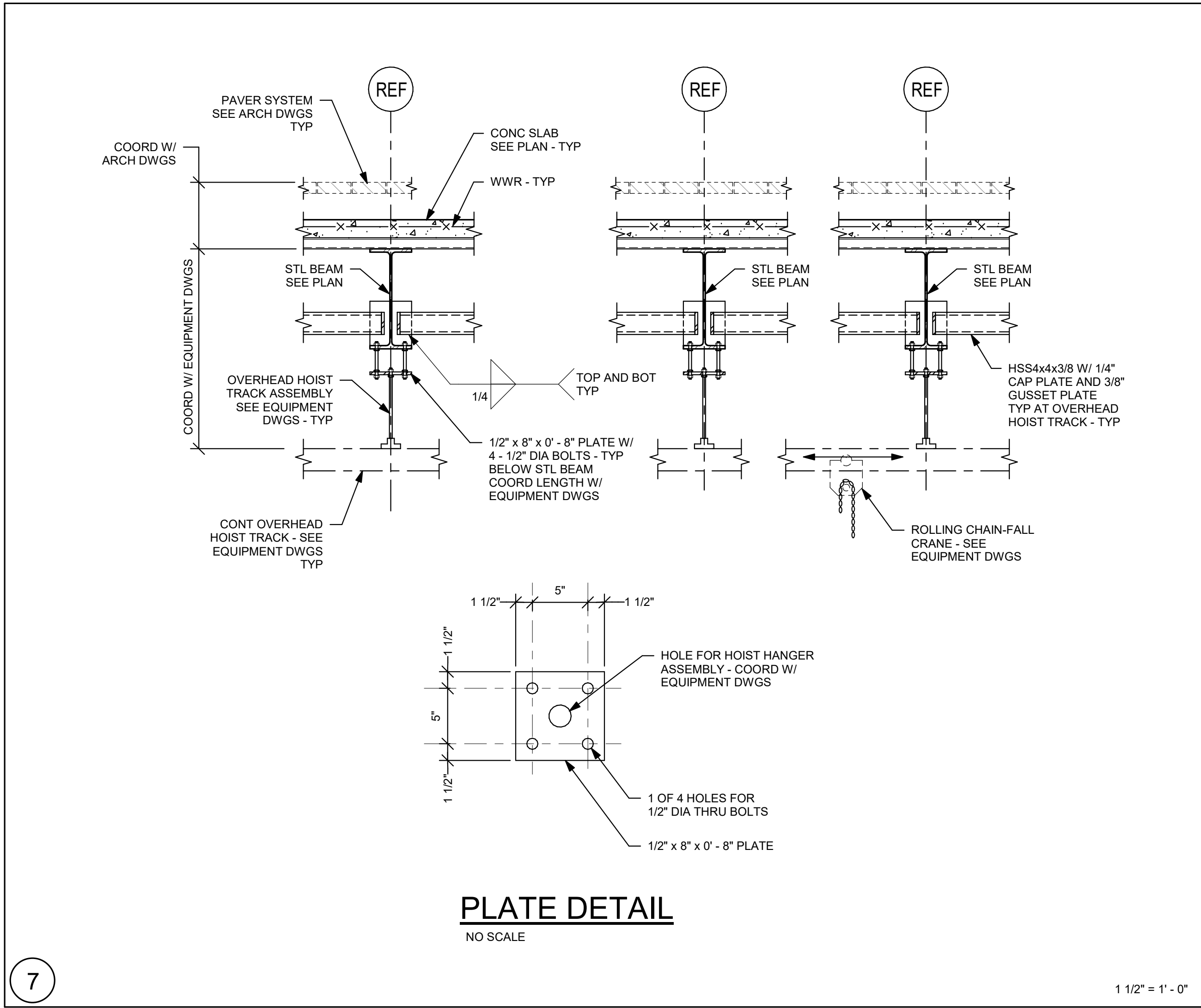
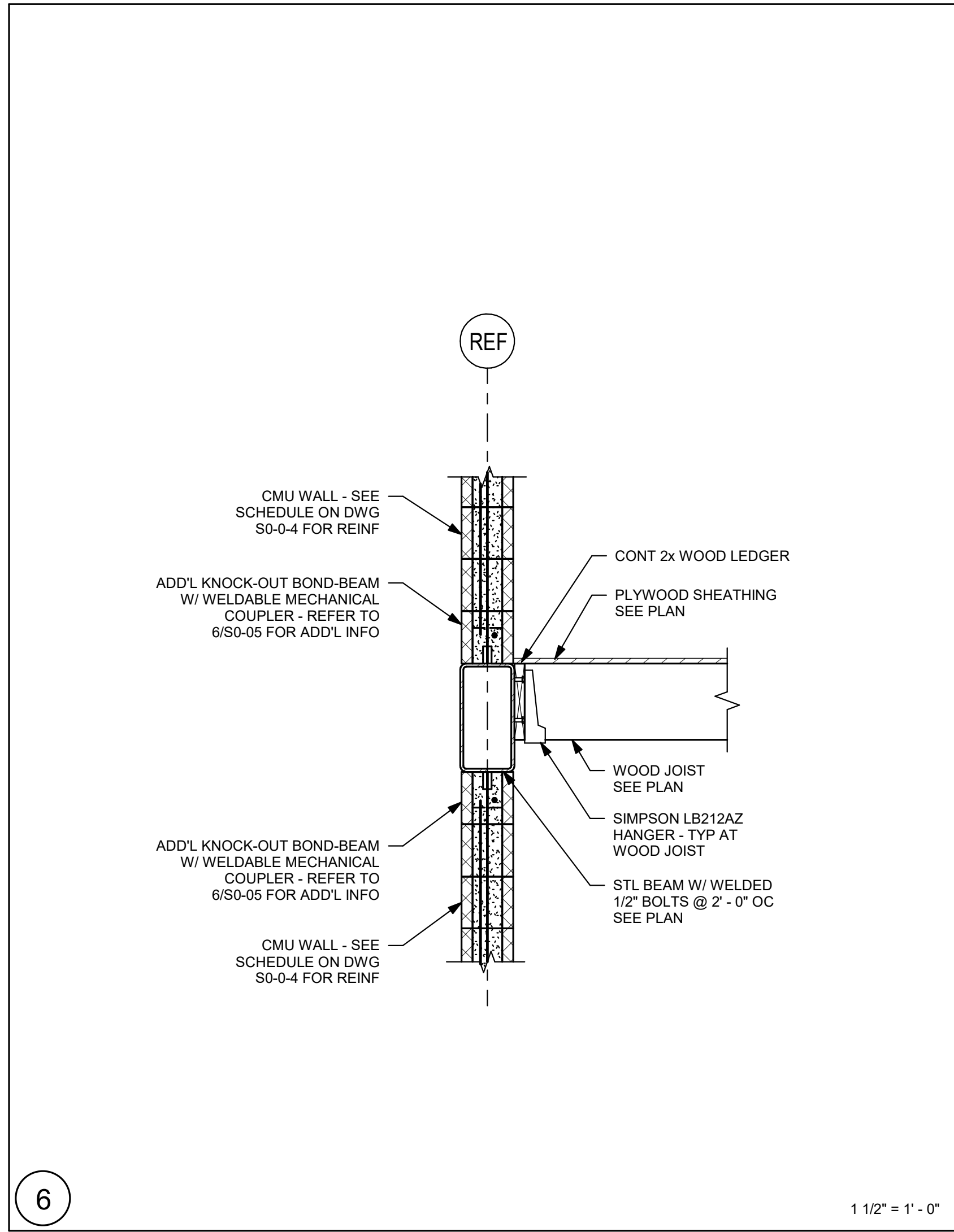
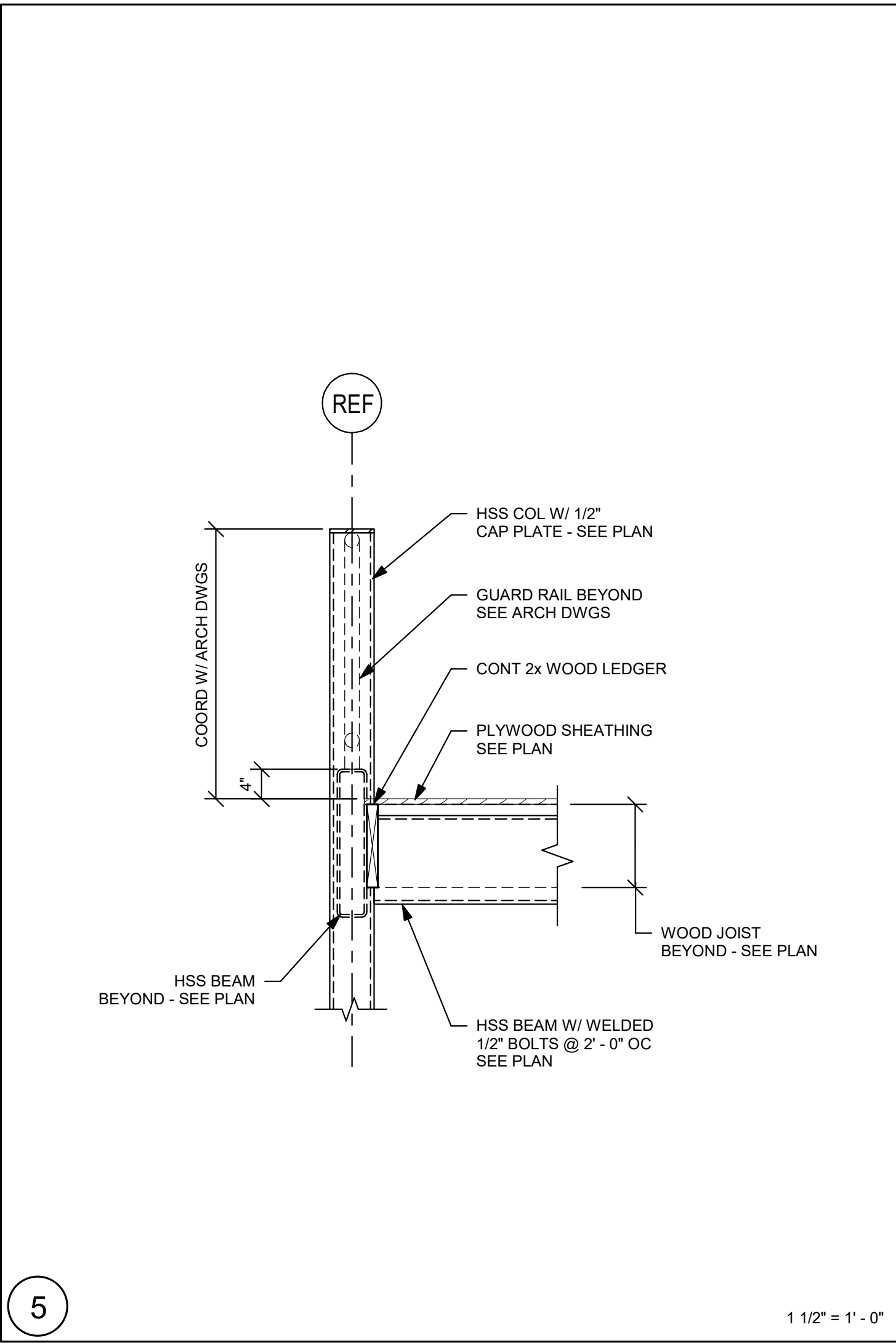
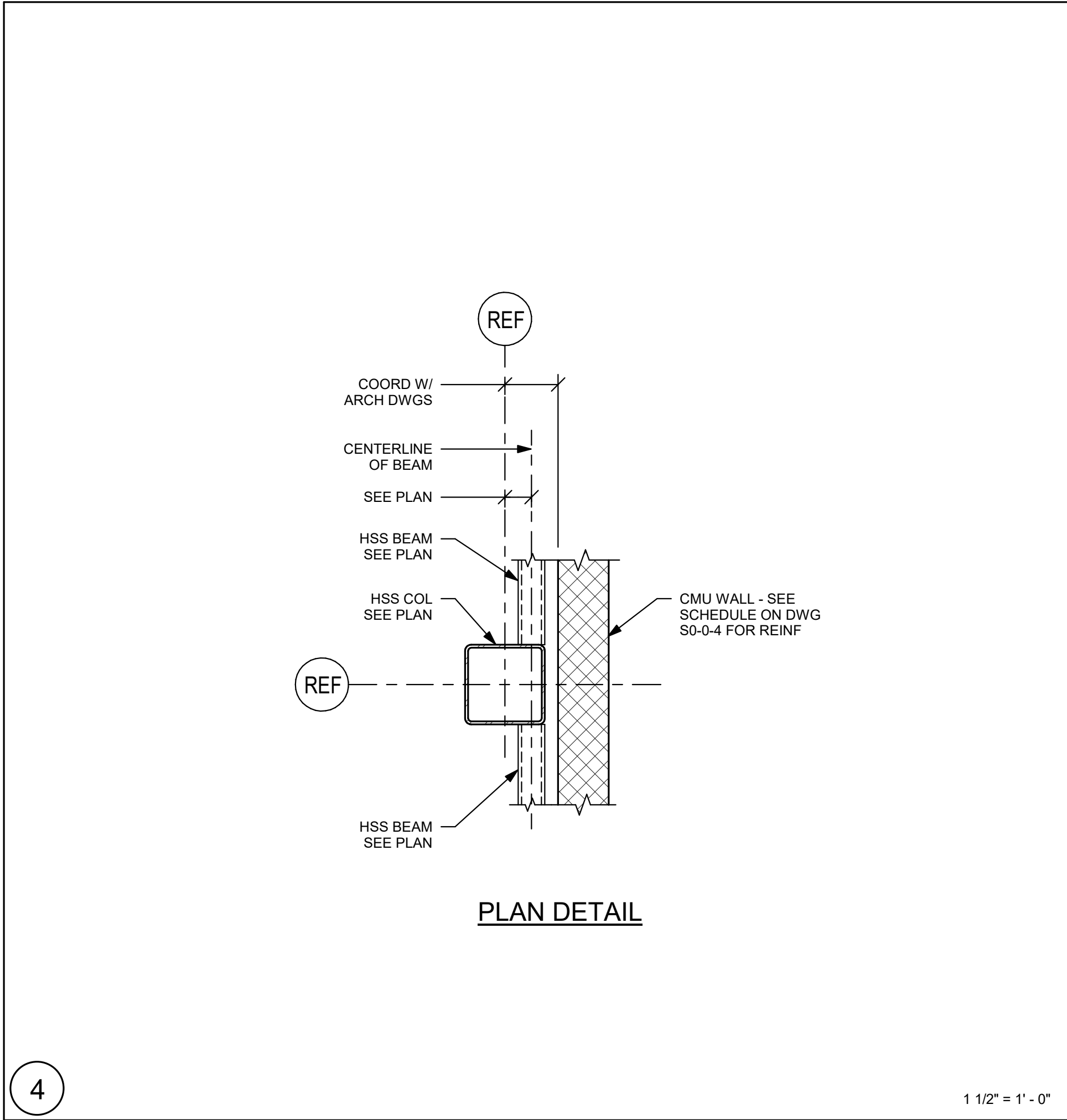
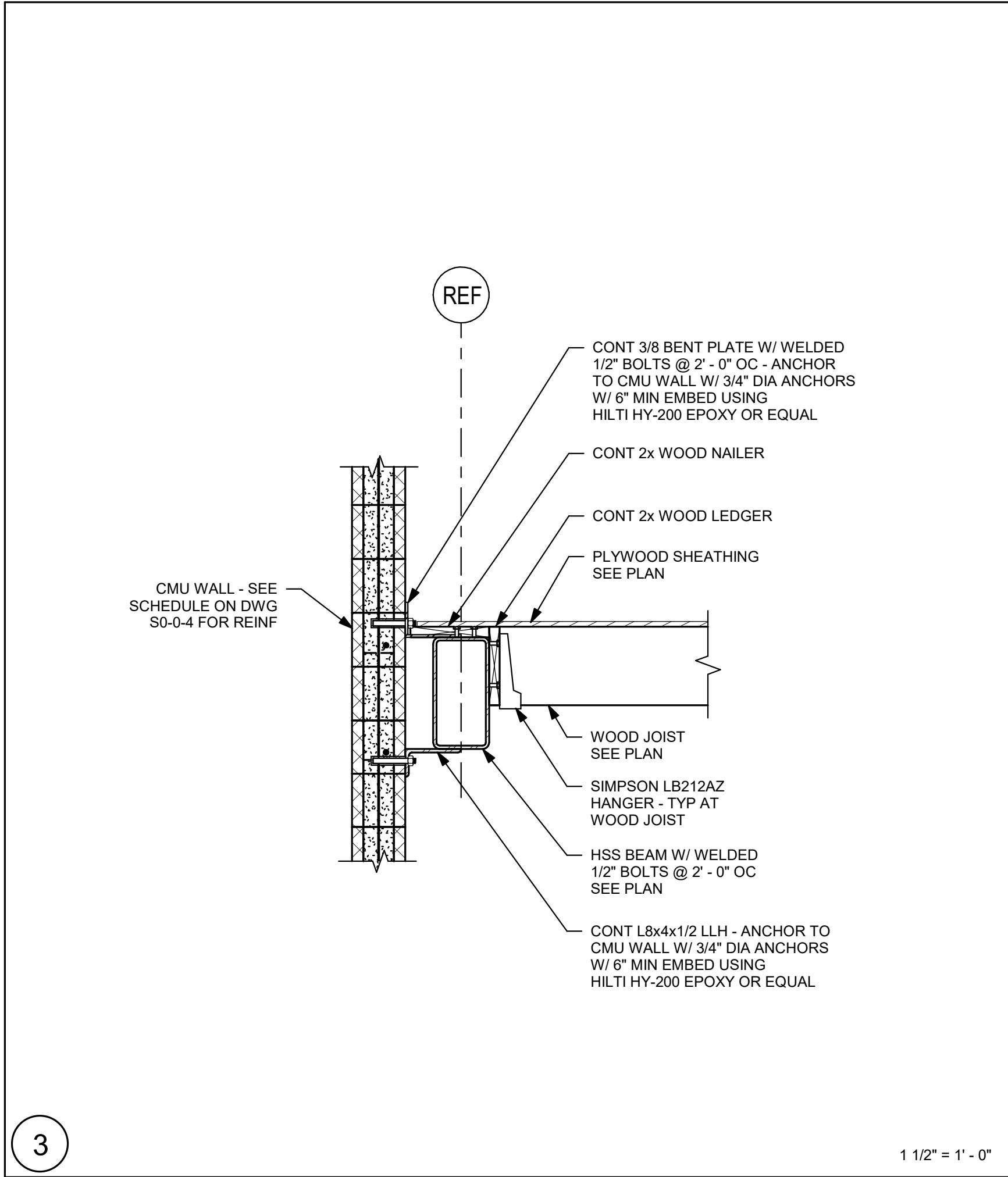
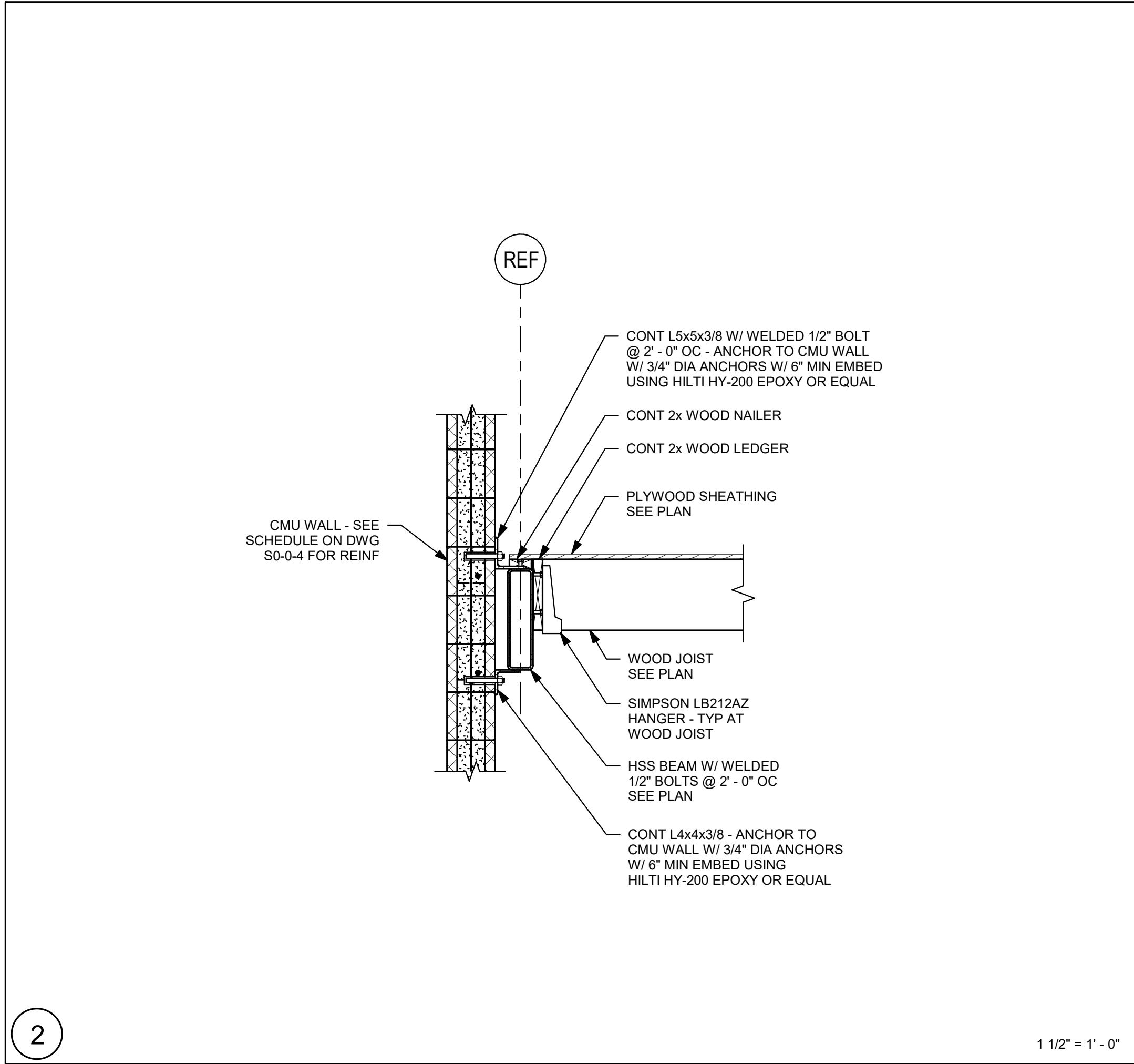
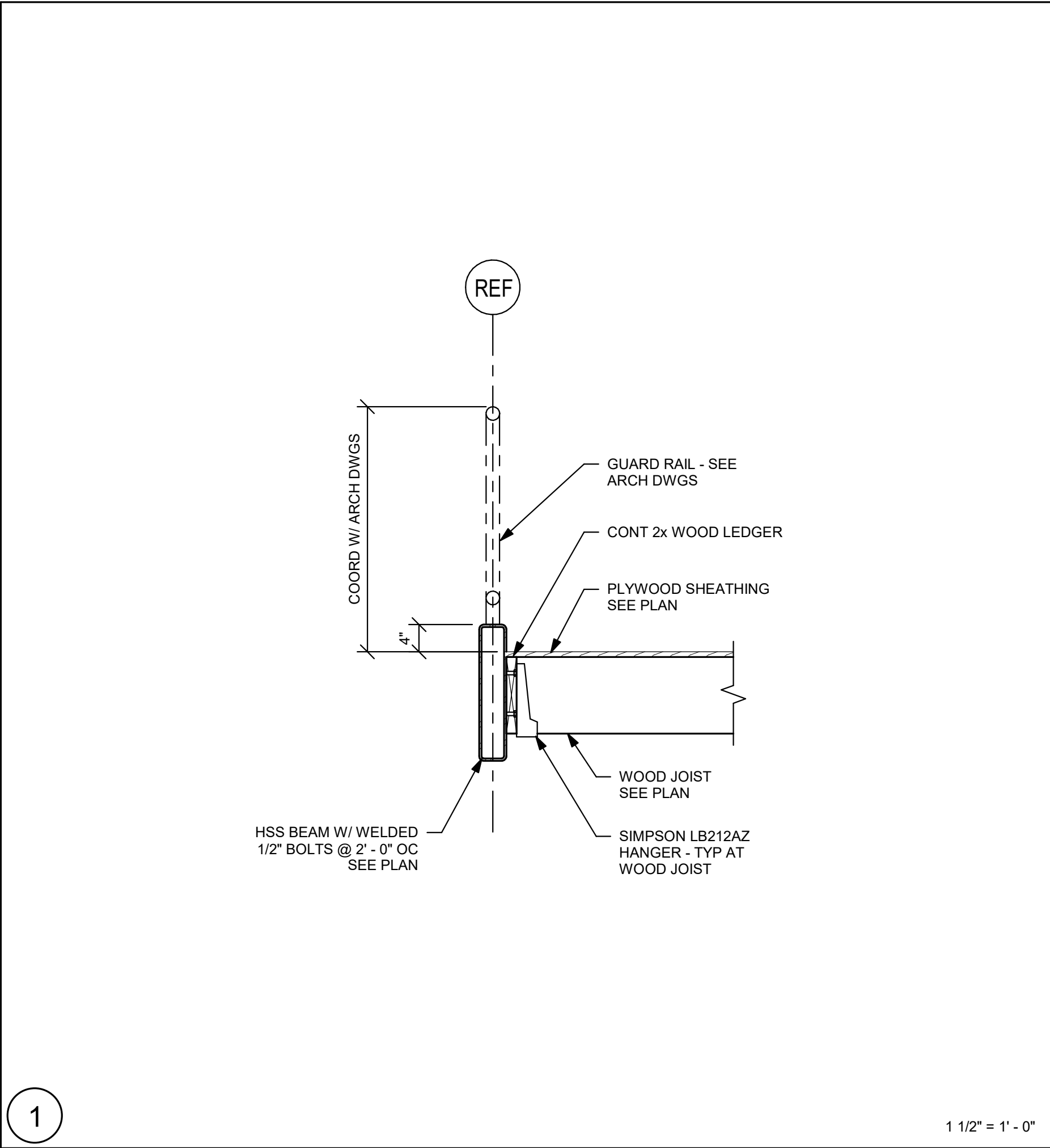


SECTIONS

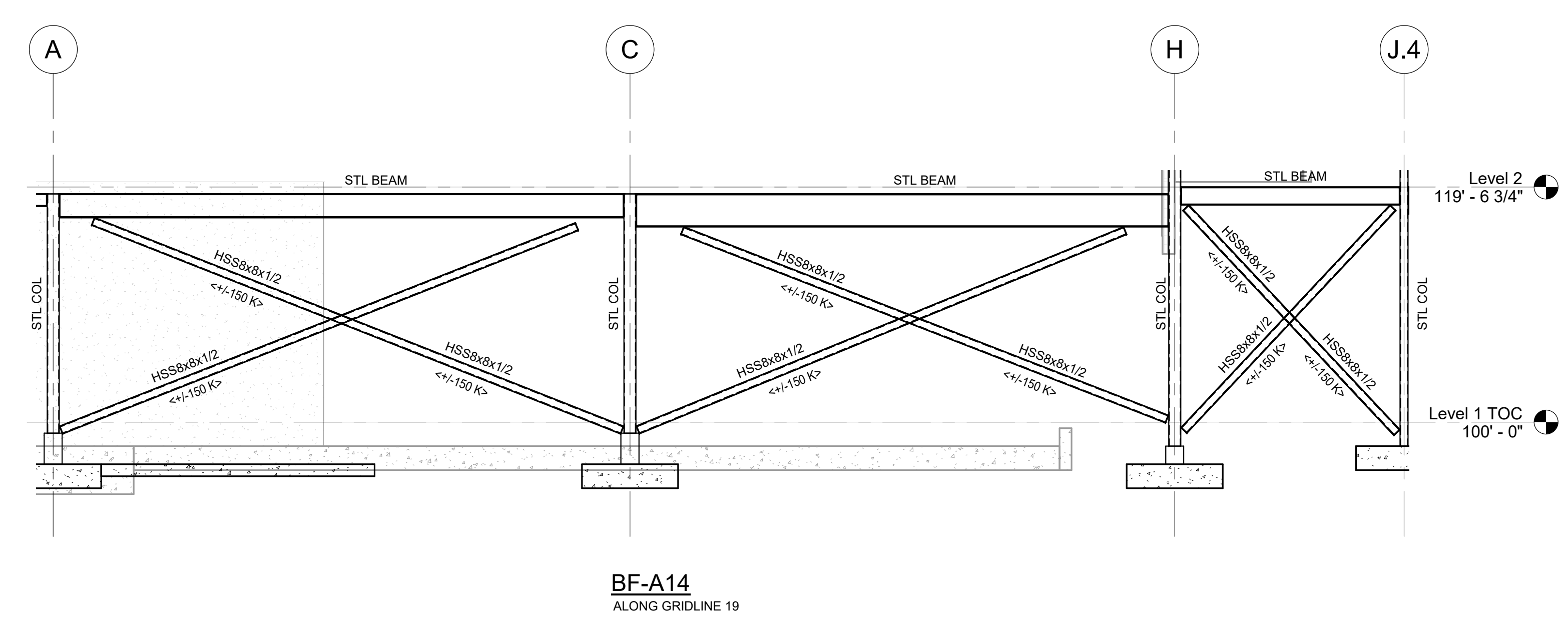
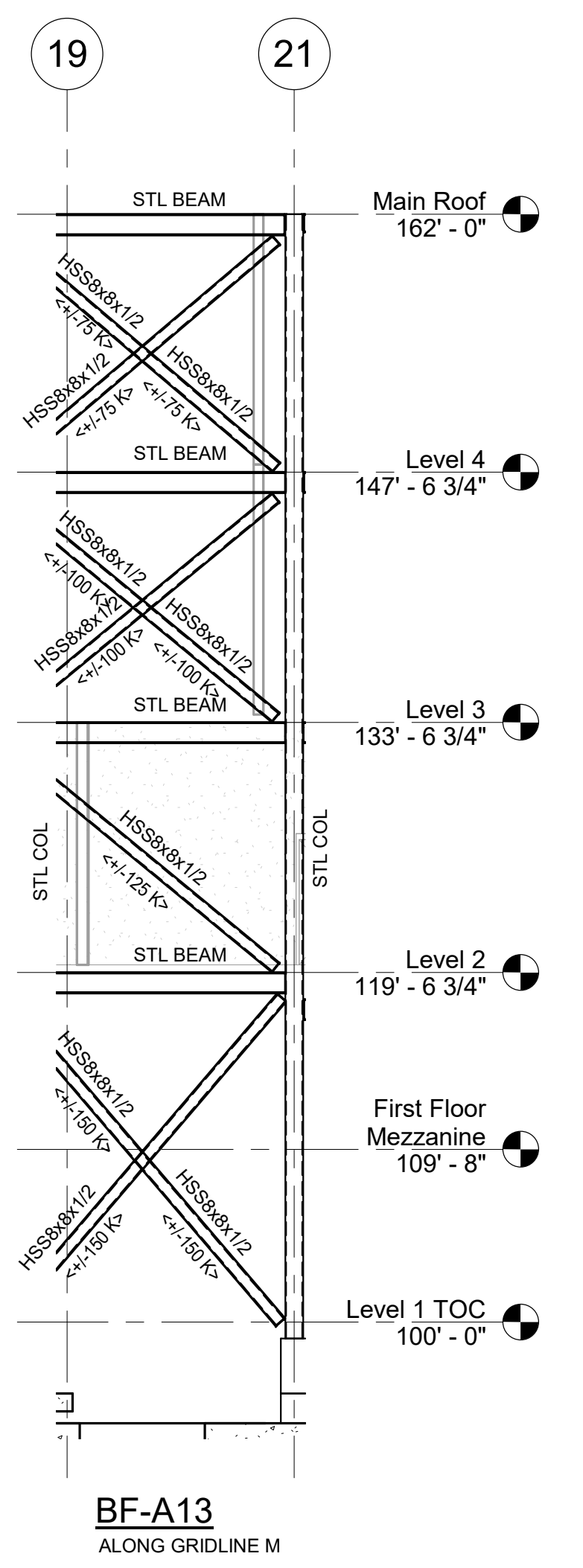
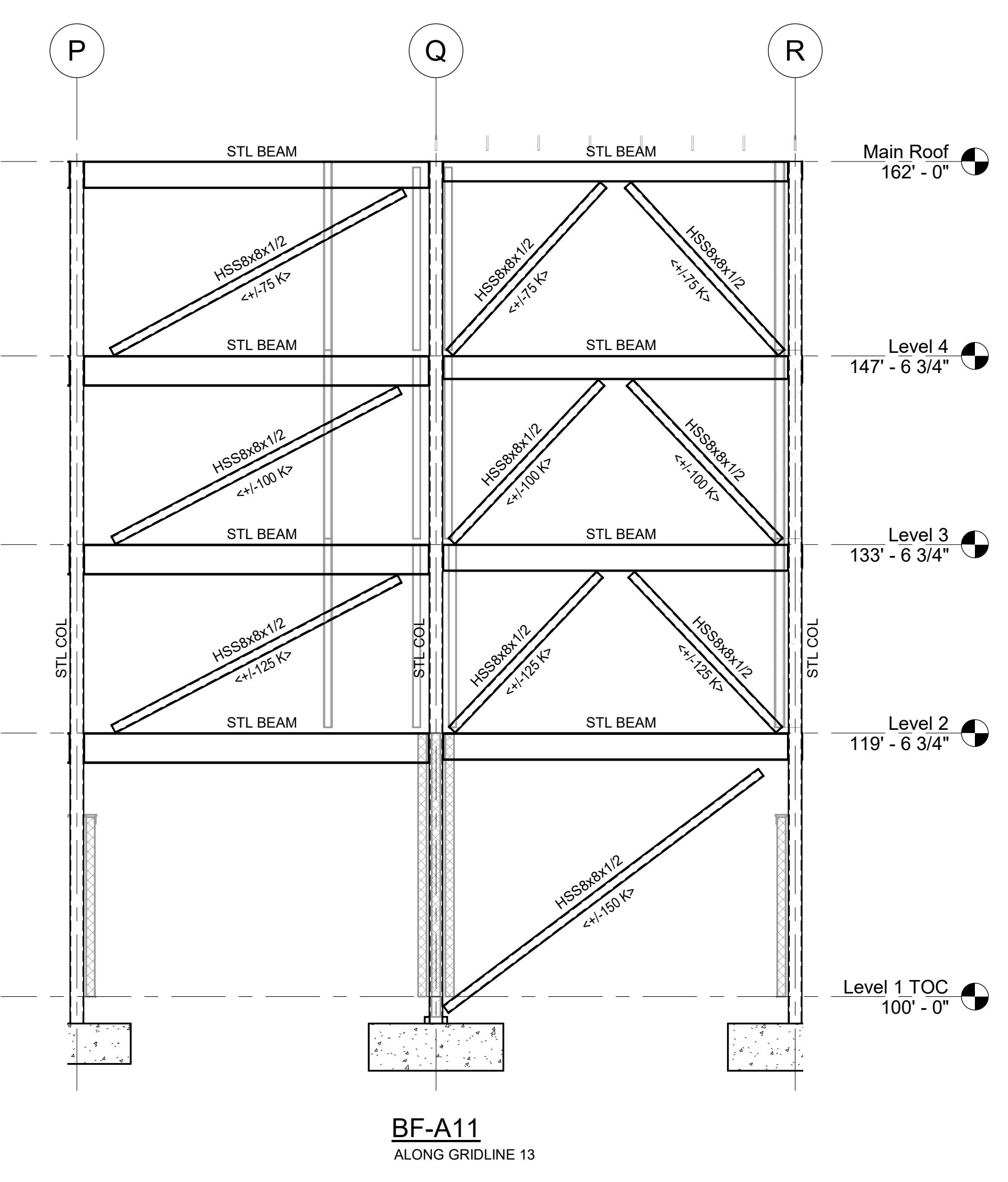
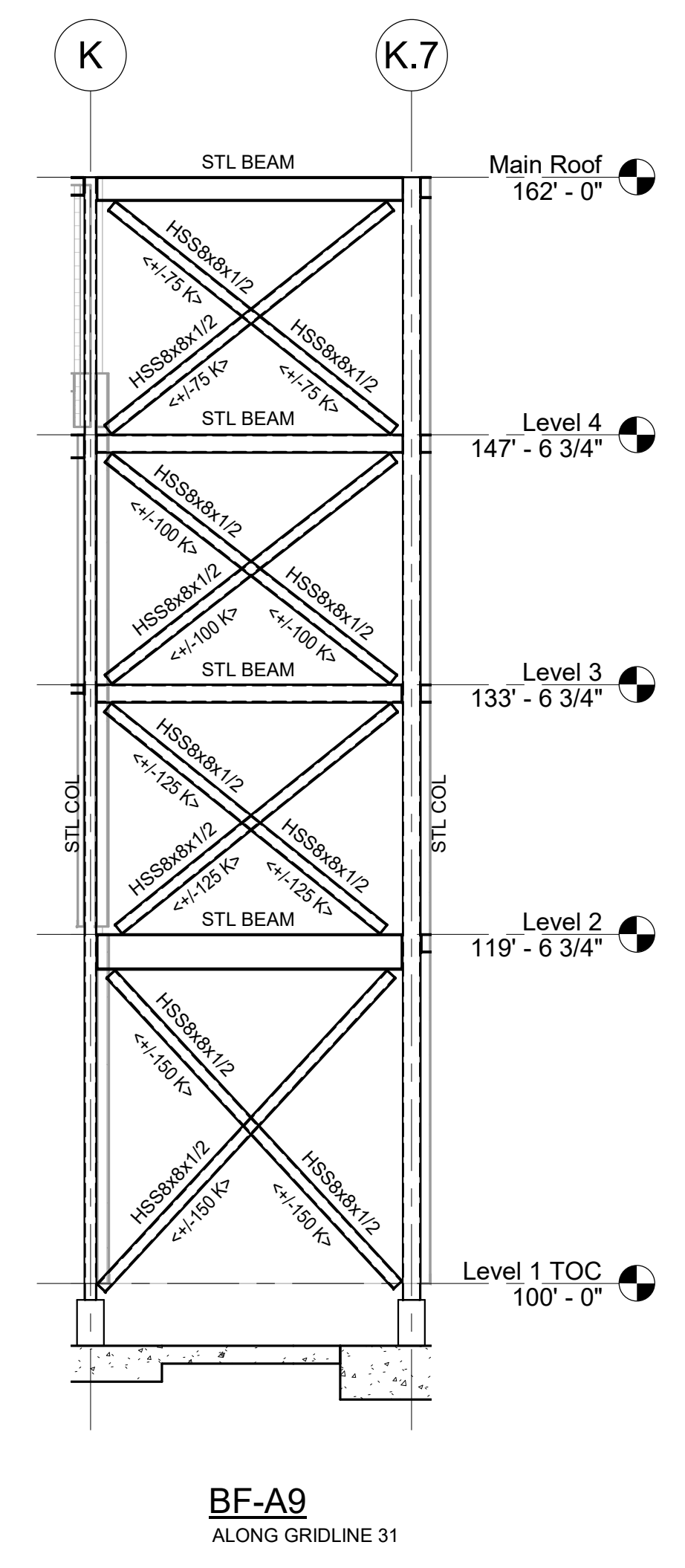
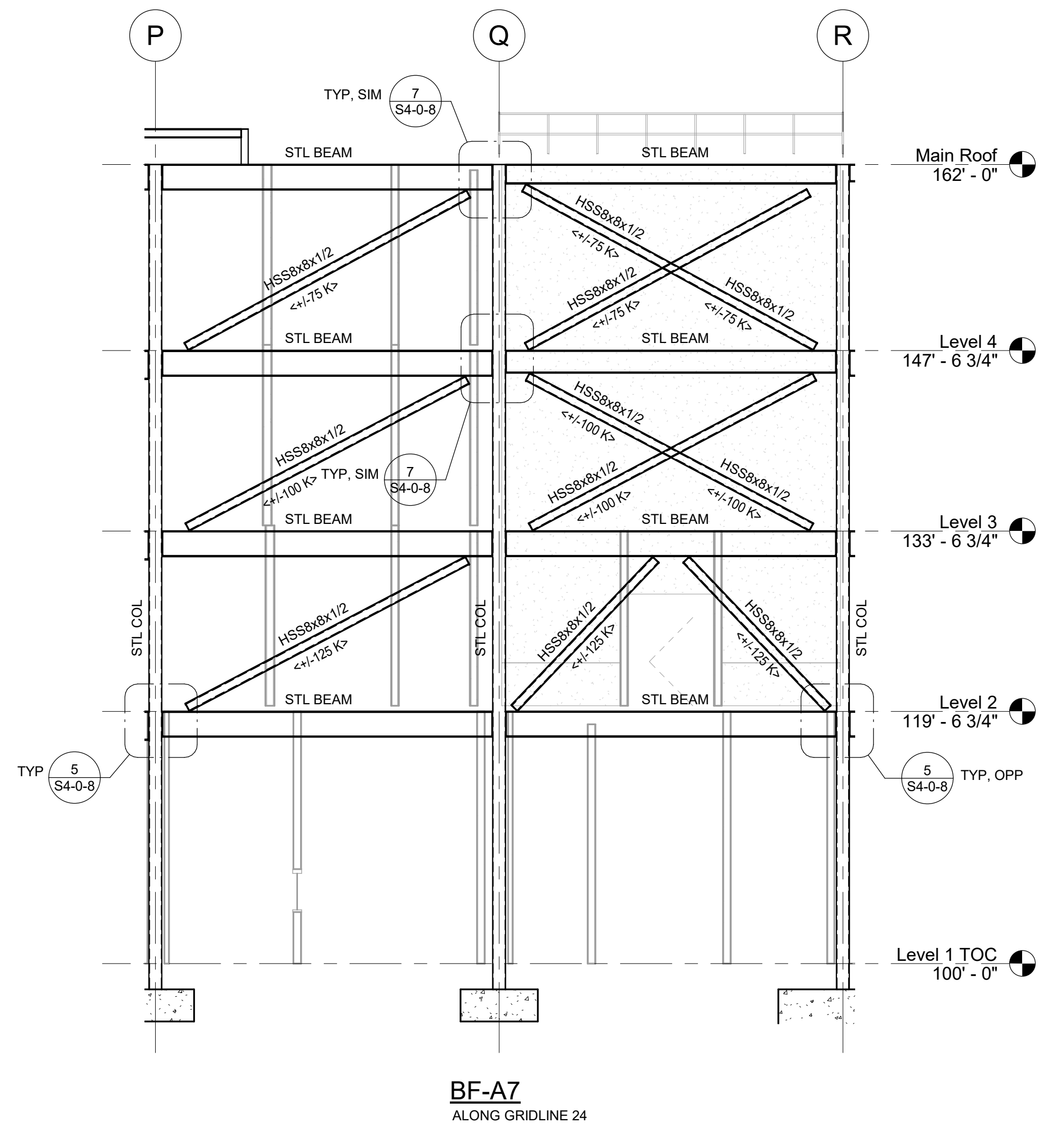
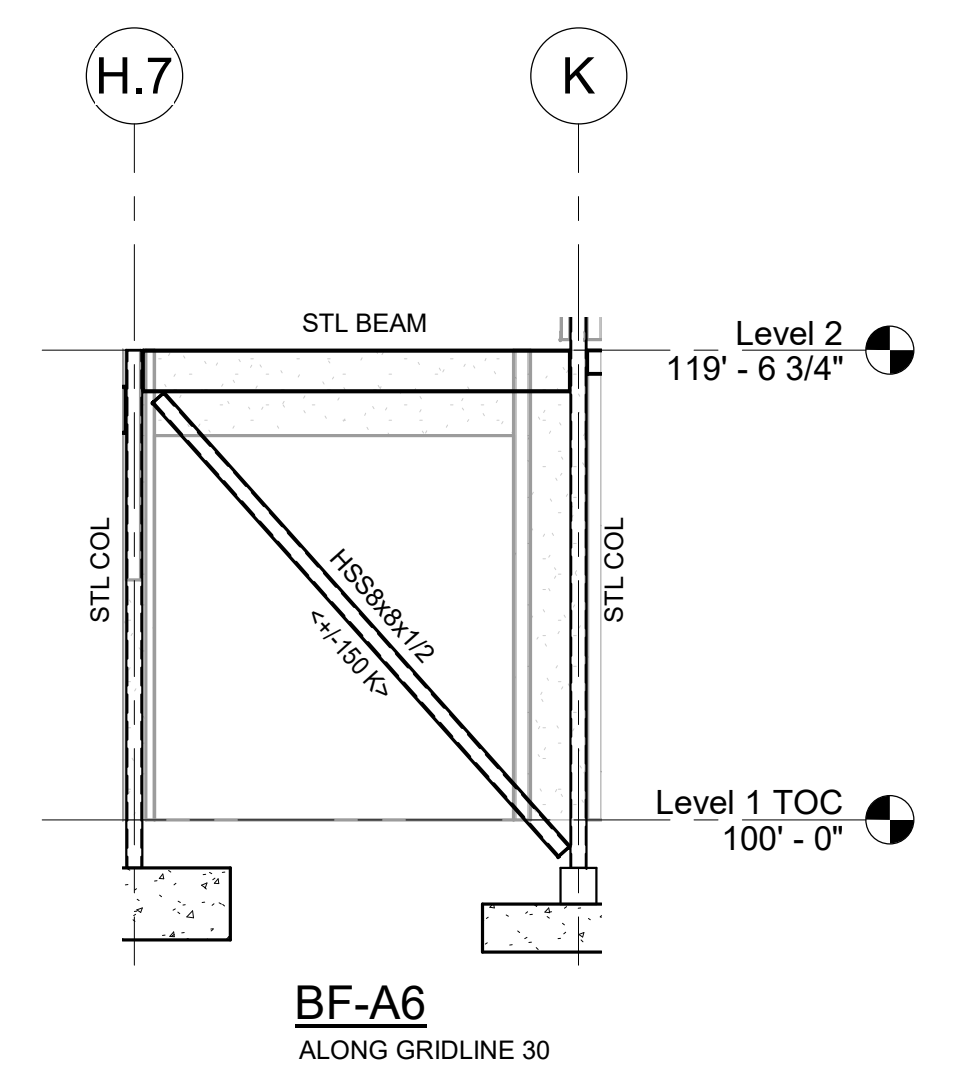
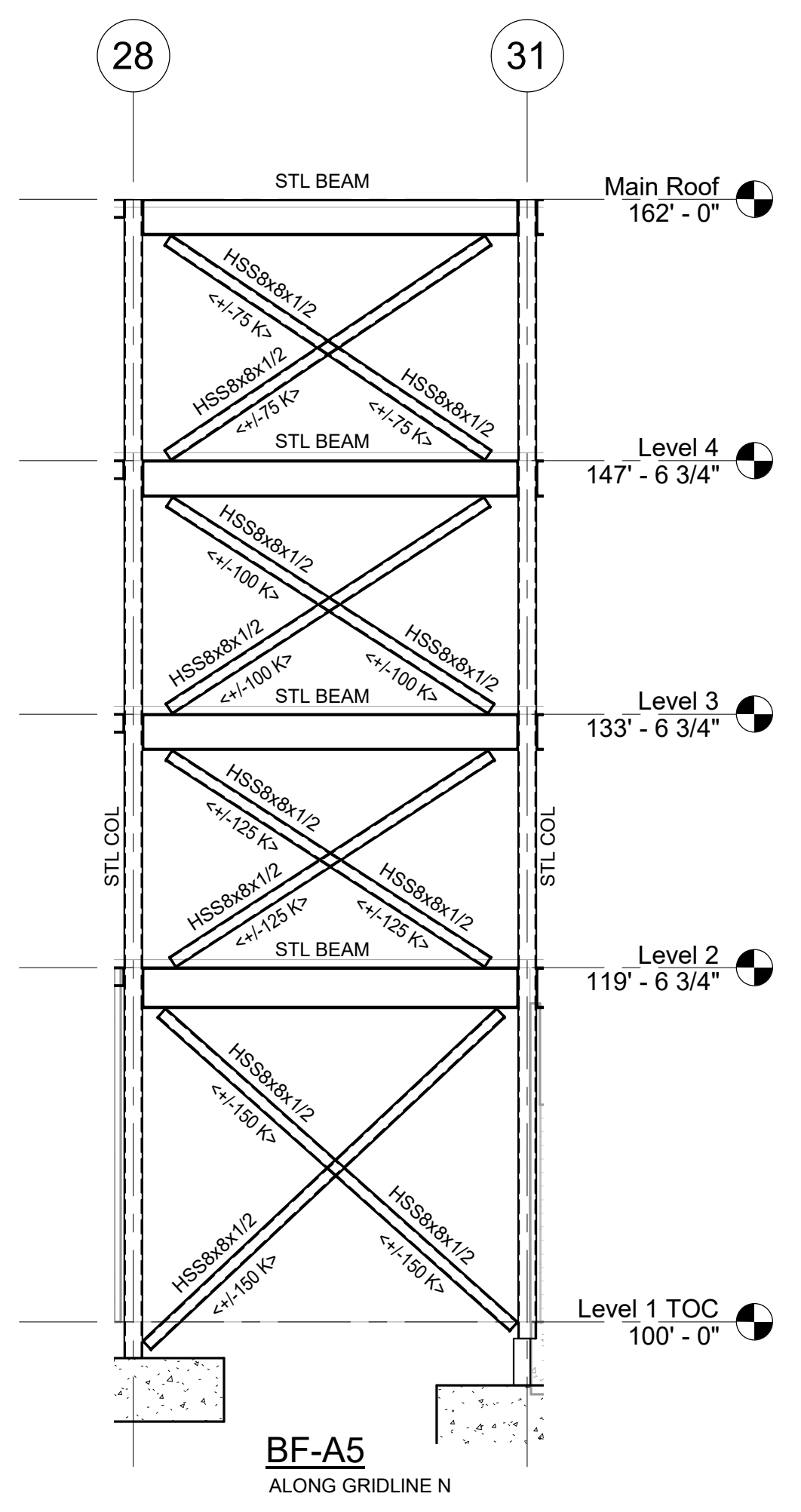
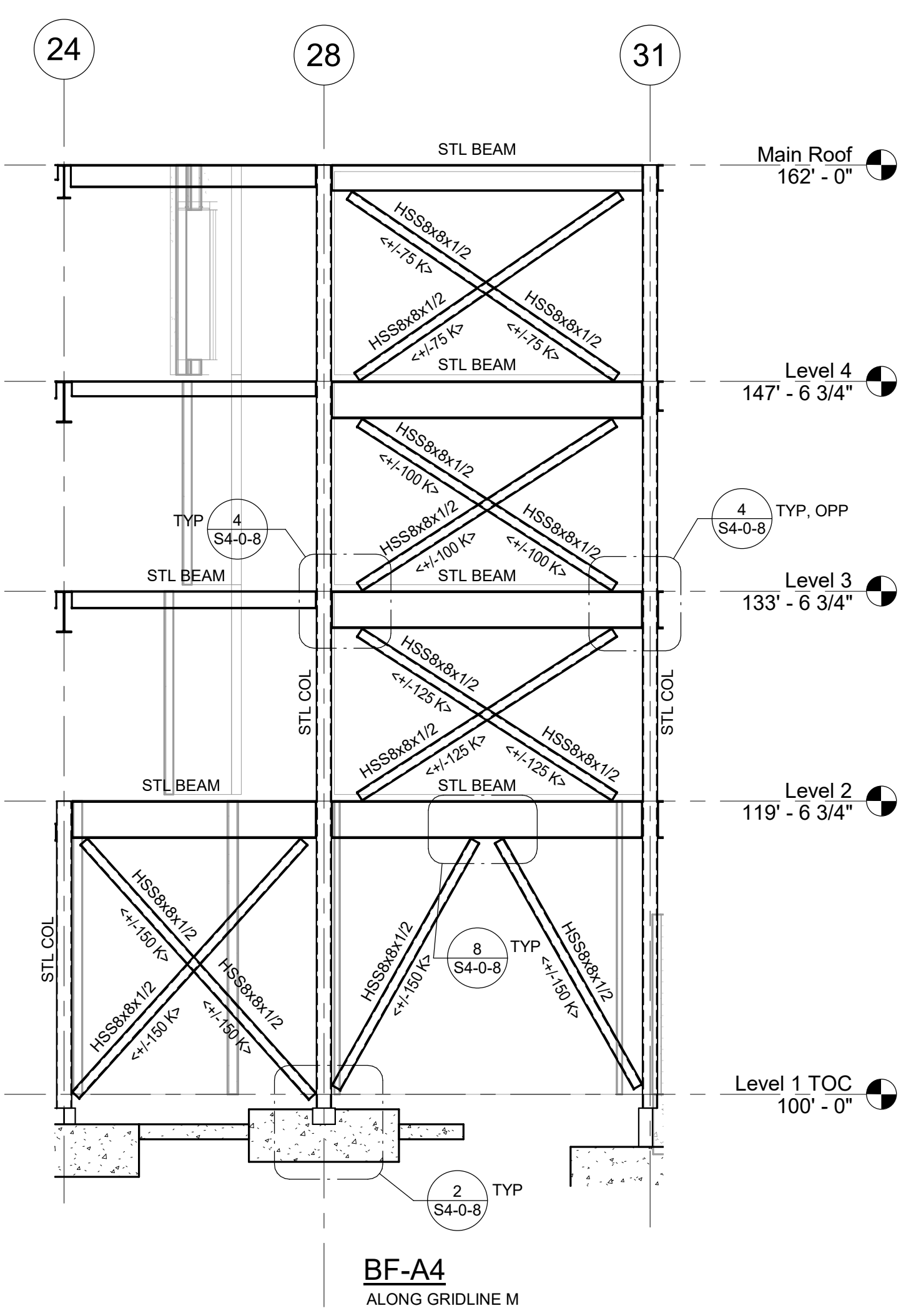
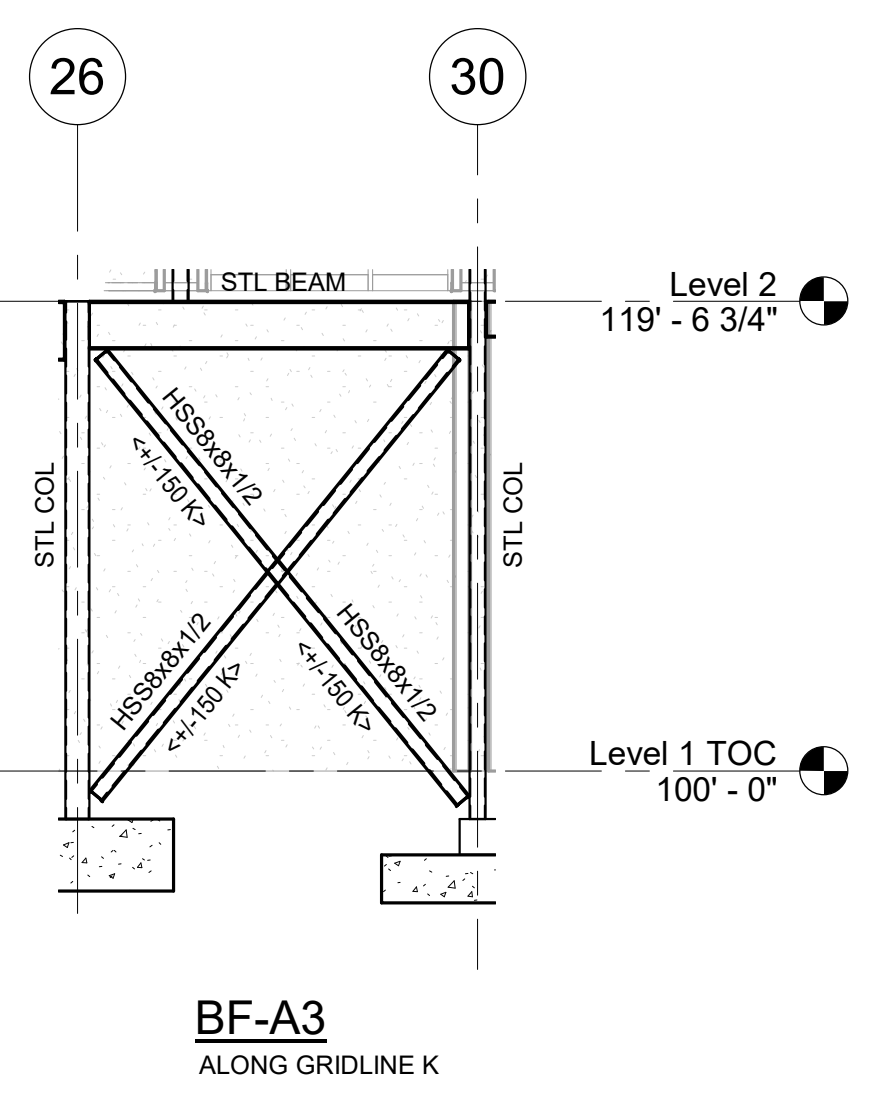
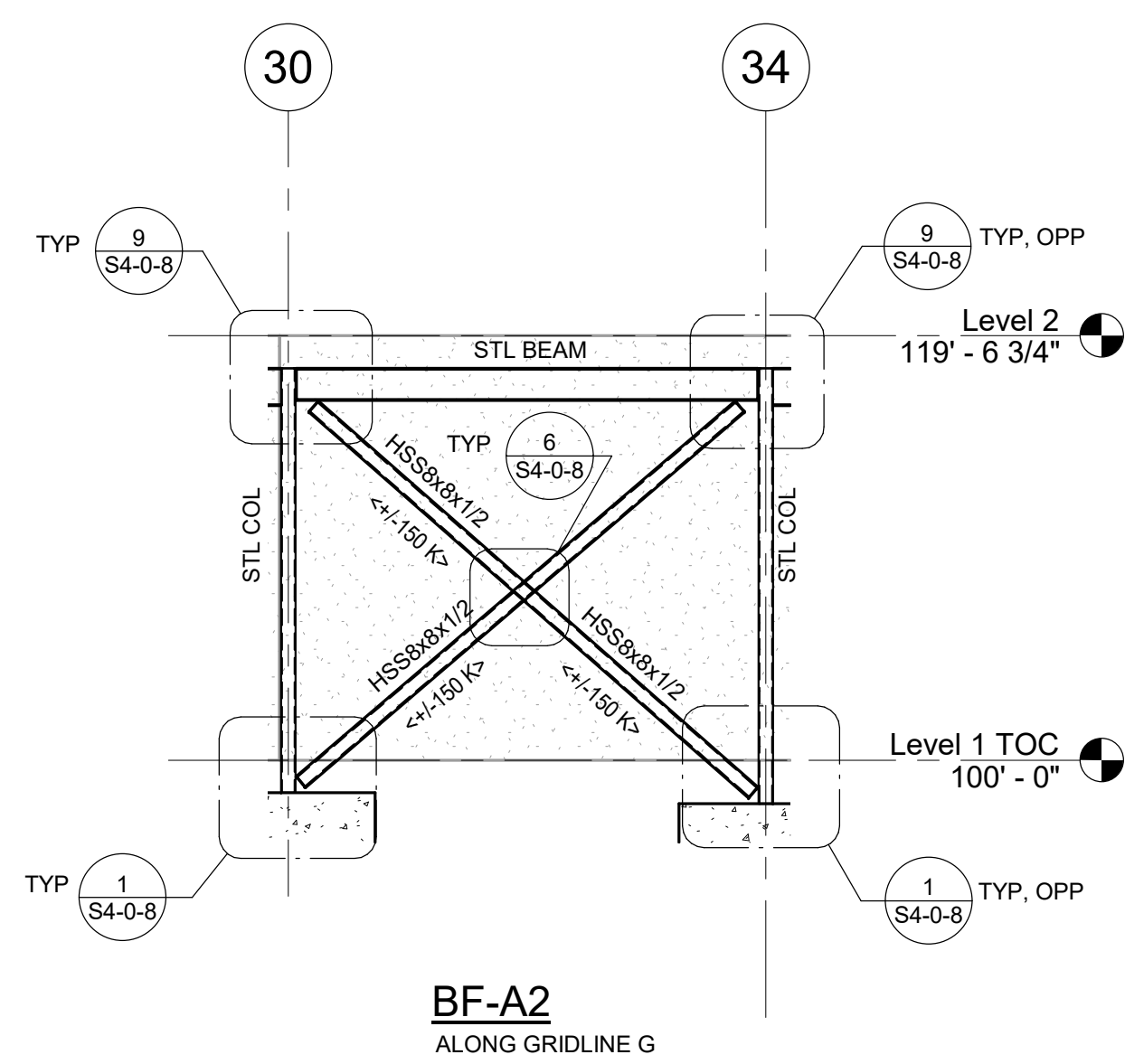
Scale: As indicated  
Job No.: 20202  
Drawn By: EDG  
Date: 01/13/2023

S3-0-5









- NOTES:**
- 1.) FABRICATOR IS RESPONSIBLE FOR BRACE CONNECTION DESIGN.
  - 2.) ELEVATIONS ARE SCHEMATIC ONLY AND INTENDED TO SHOW CONFIGURATION OF BRACED FRAMES AND BRACE FORCES.
  - 3.) DESIGN DIAGONAL MEMBER CONNECTIONS FOR TWICE THE AXIAL DESIGN FORCE SHOWN BELOW EACH MEMBER <30k> (TENSION OR COMPRESSION). AXIAL DESIGN FORCE IS BASED ON LRFD. USE GENERAL UNIFORM FORCE METHOD FOR CONNECTION DESIGN.
  - 4.) DO NOT WELD TOP END OF DIAGONAL BRACE MEMBERS IN PLACE UNTIL FLOOR SLABS AND ROOFING ARE IN PLACE. WELDS MUST BE FULLY INSPECTED AND APPROVED PRIOR TO PLACING ANY CONCRETE OR INSTALLING OTHER MATERIALS THAT WOULD COVER THE CONNECTIONS.
  - 5.) BOLTED CONNECTIONS IN BRACED FRAMES SHALL BE DESIGNED AS SLIP CRITICAL CONNECTIONS.
  - 6.) SEE PLANS FOR COLUMN AND BEAM SIZES.

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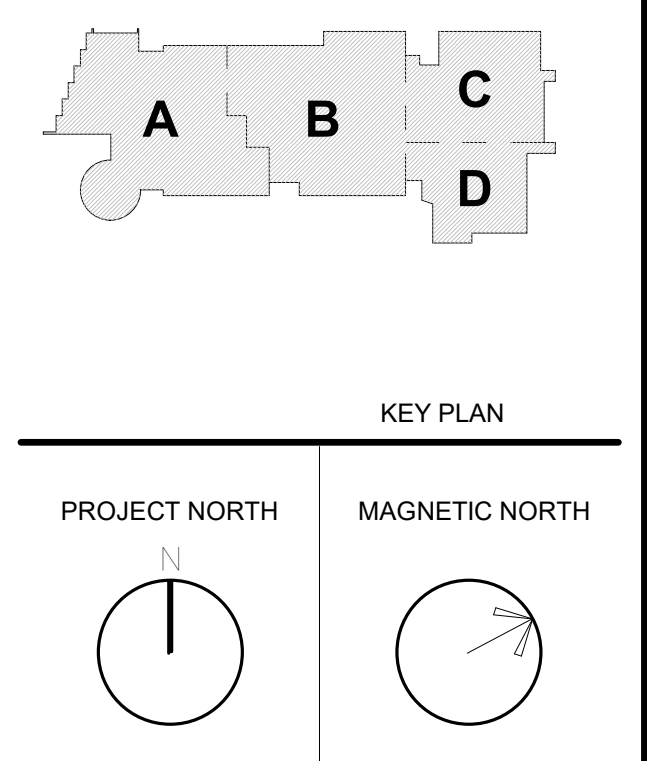
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01/13/2023



**BRACE FRAME  
ELEVATIONS -  
AREA A**

Scale: 1/8" = 1'-0"

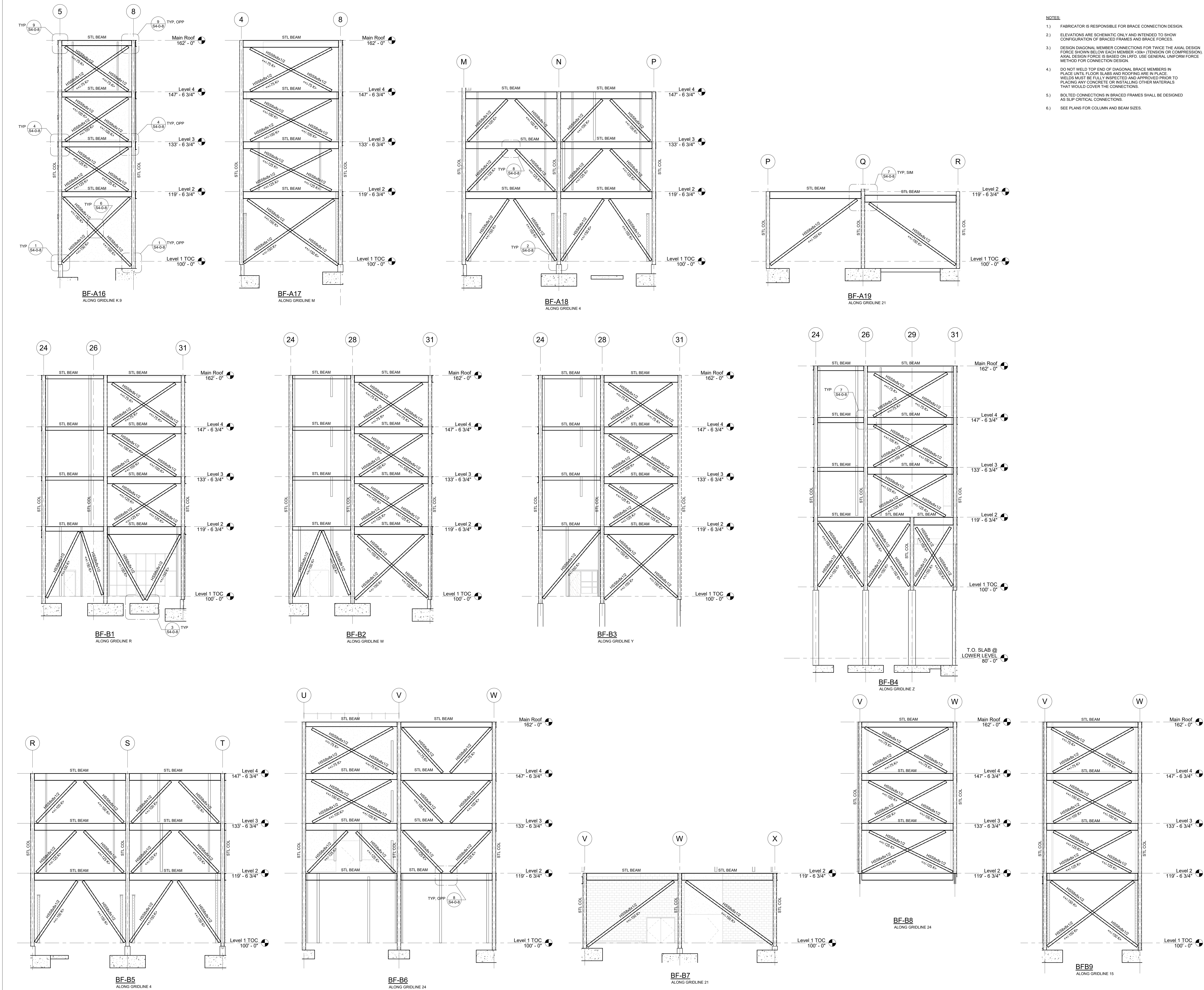
Job No.: 20202

Drawn By: EDG

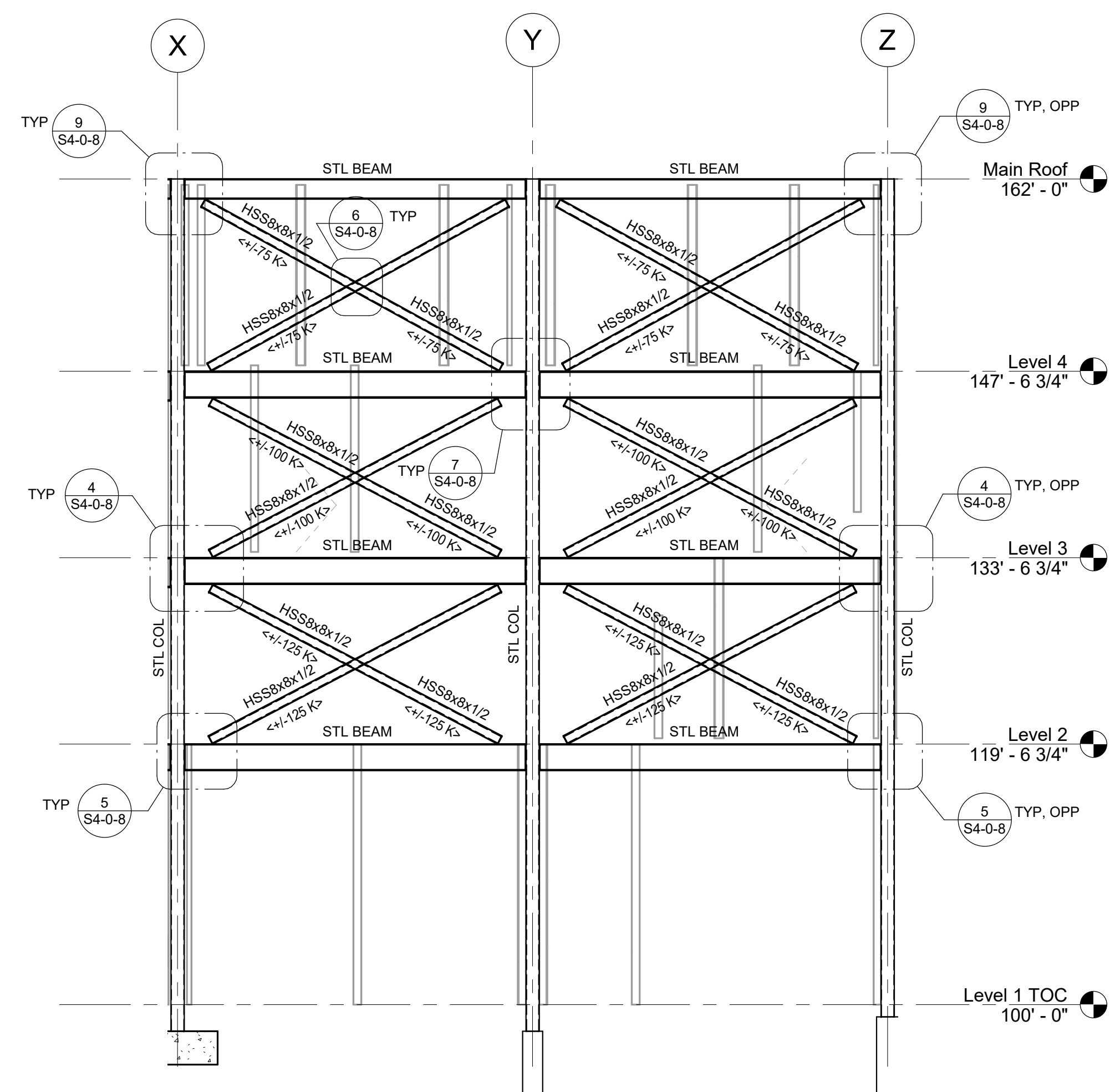
Date: 01/13/2023

**S4-0-1**

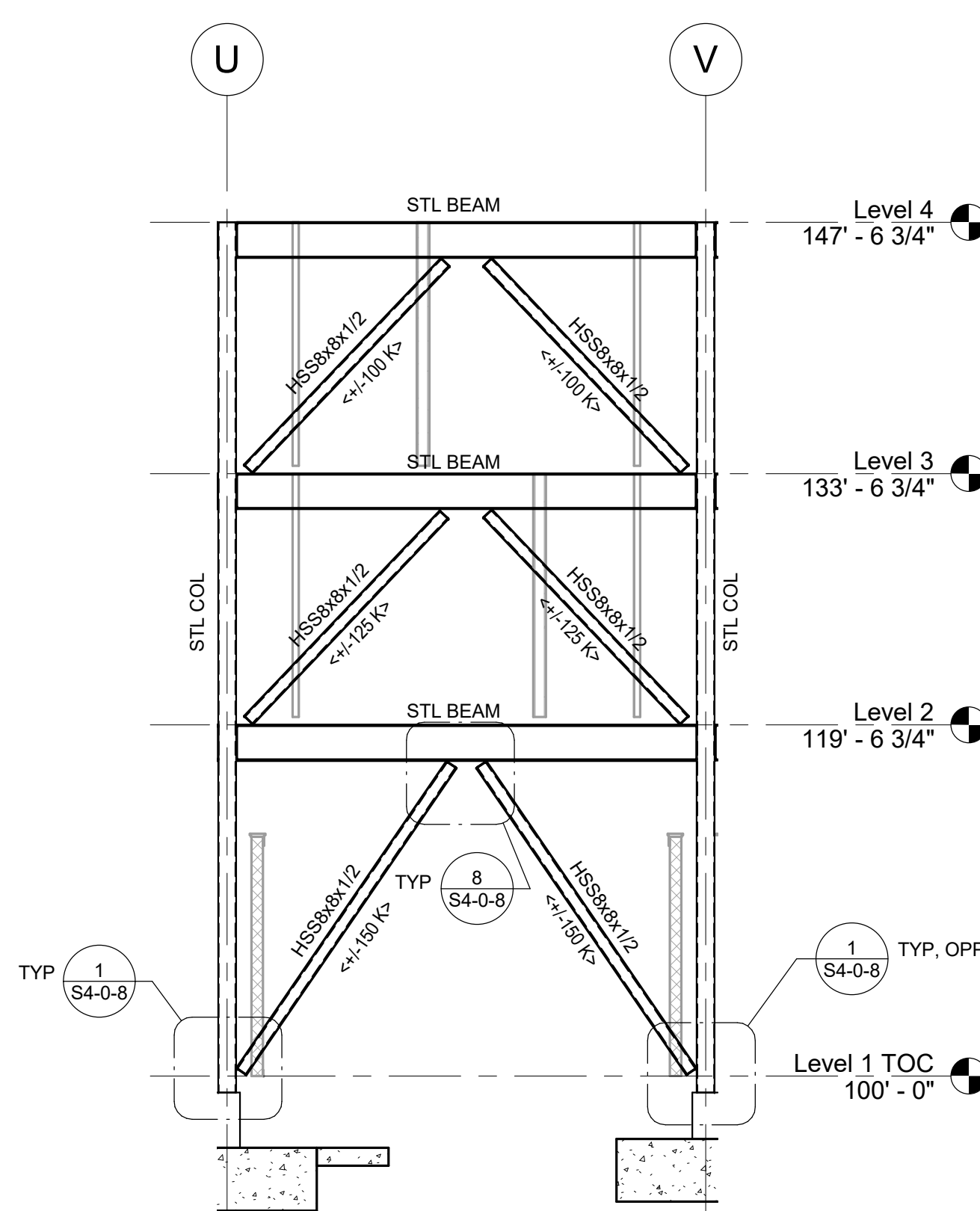




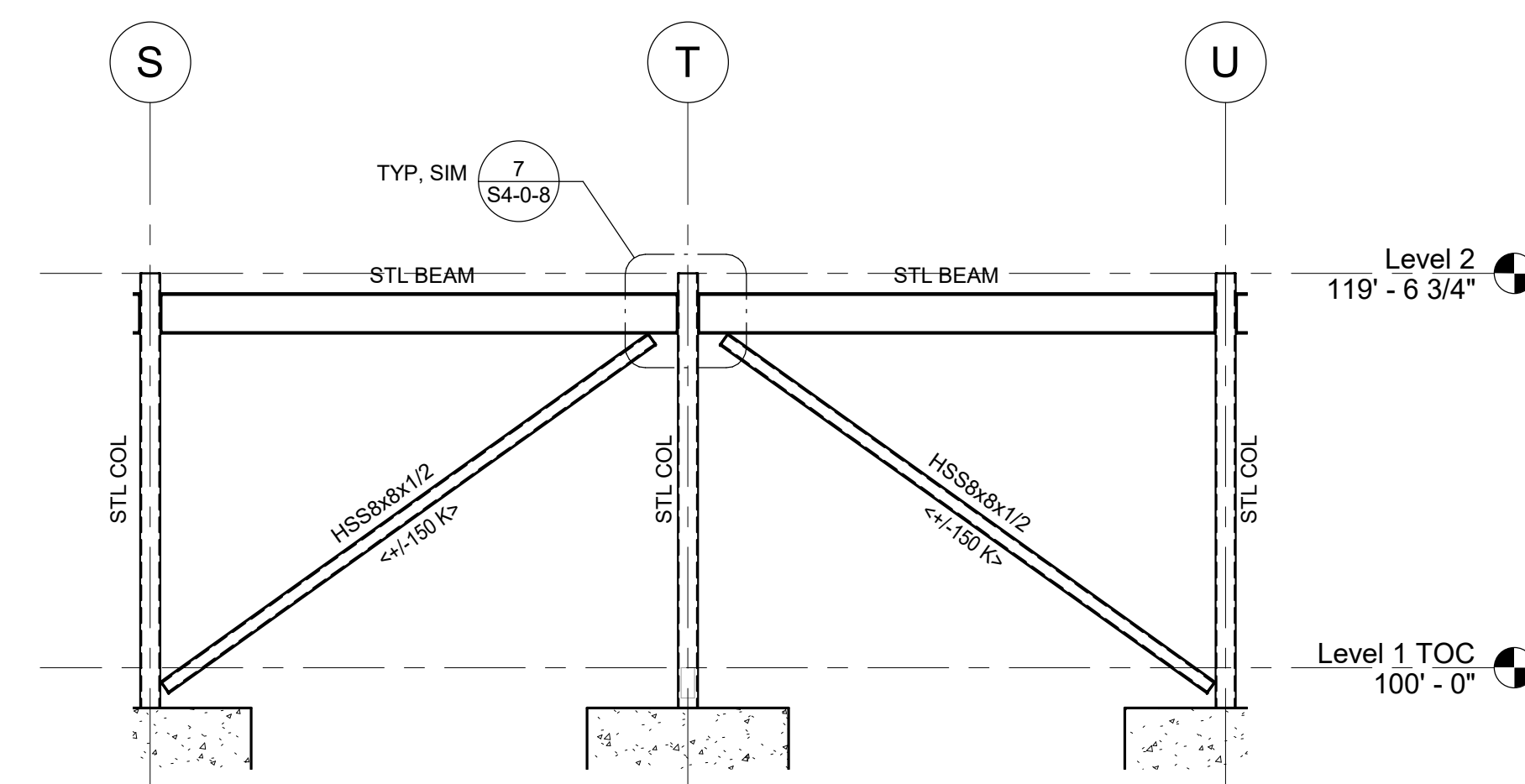




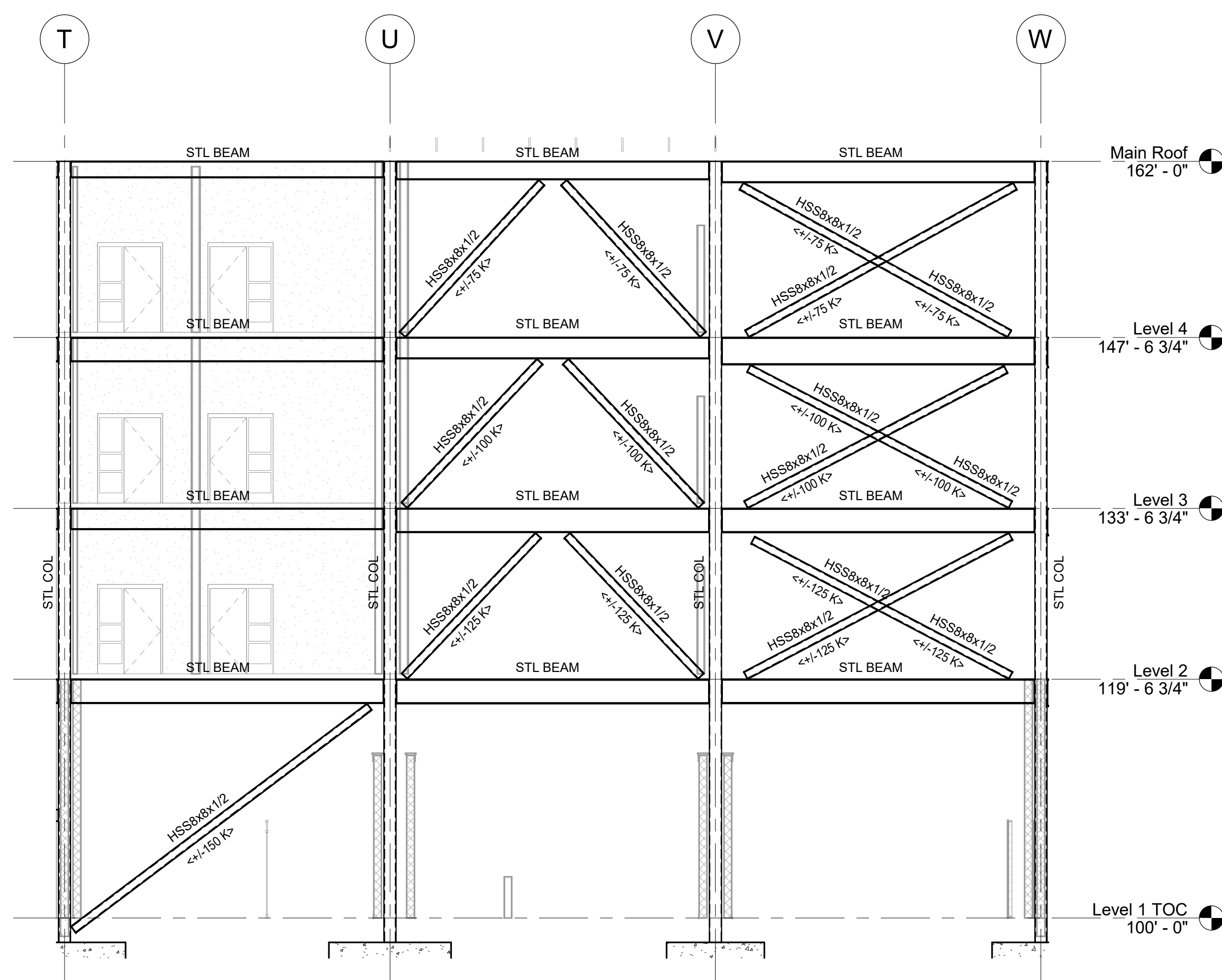
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ALONG GRIDLINE 24



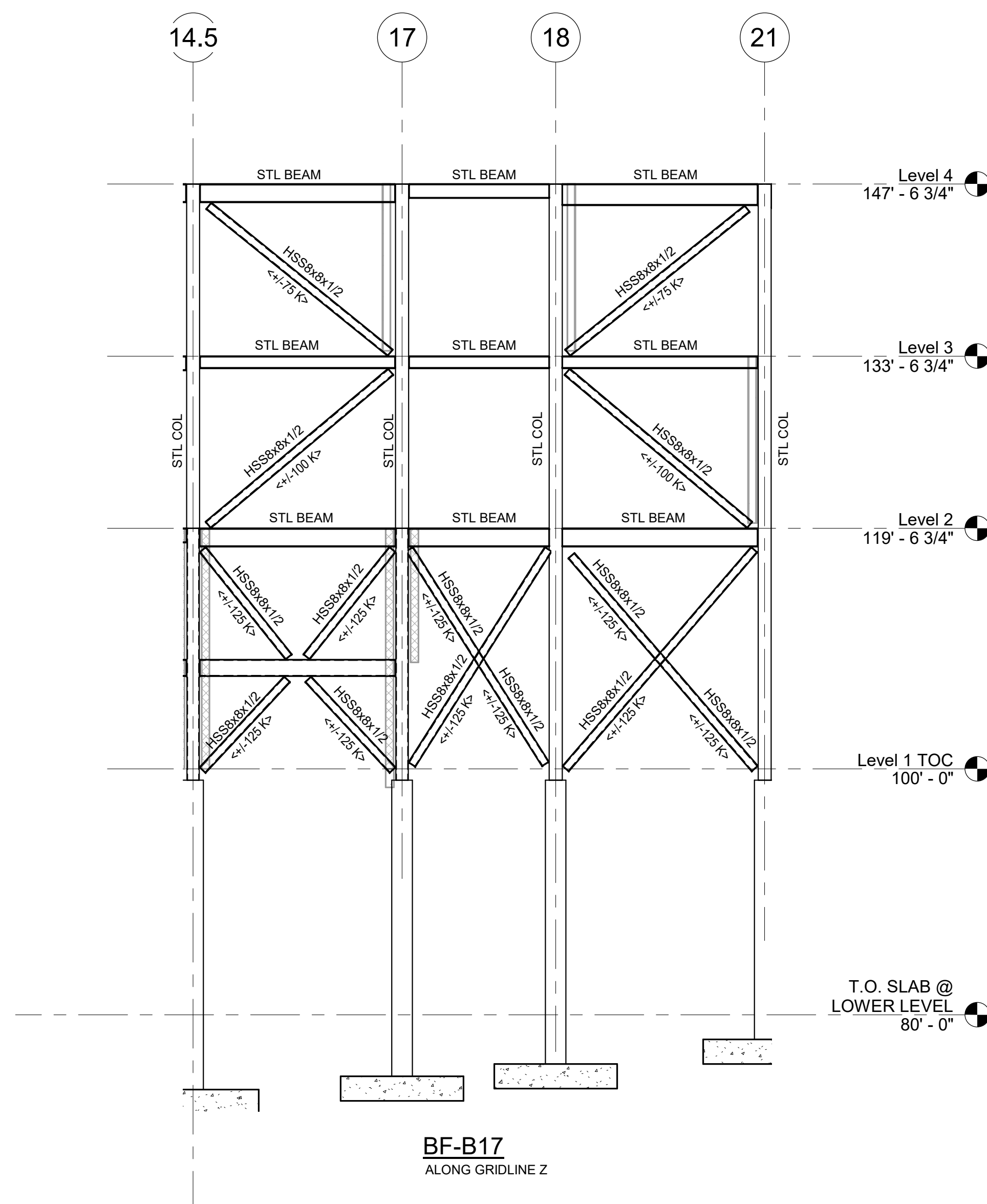
**BF-B12**  
ALONG GRIDLINE 4



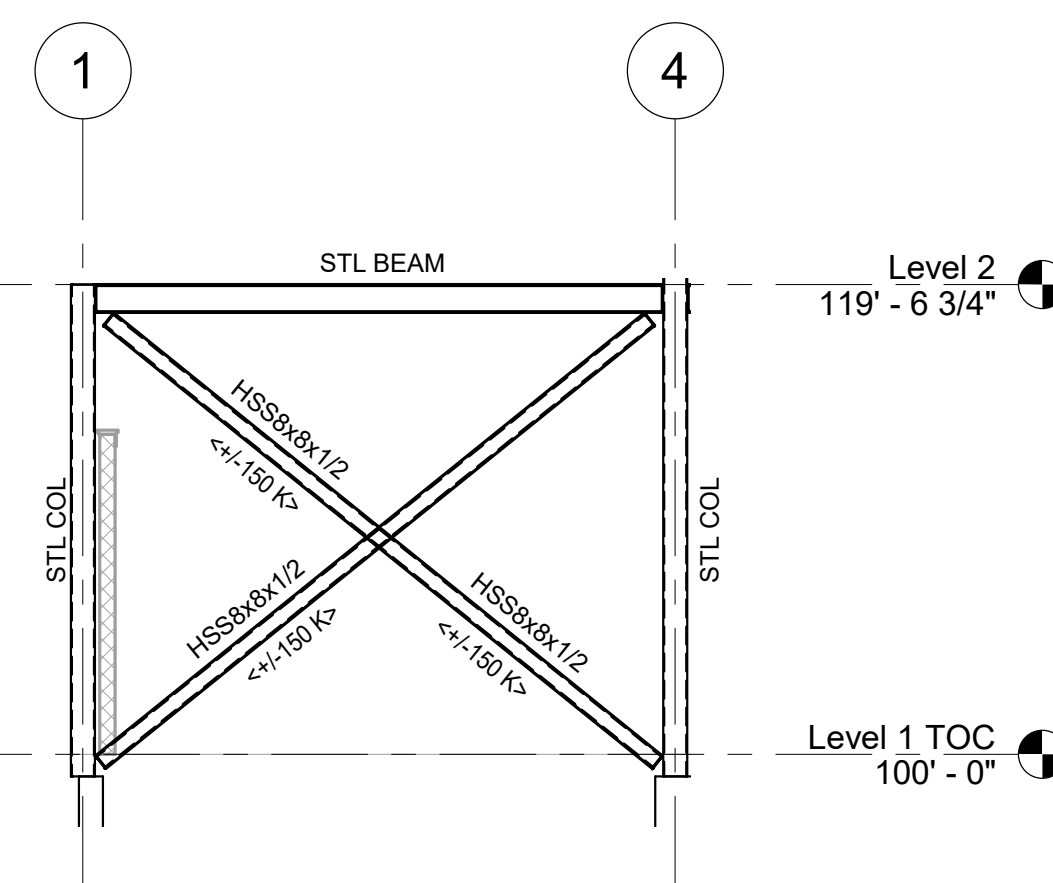
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ALONG GRIDLINE 21



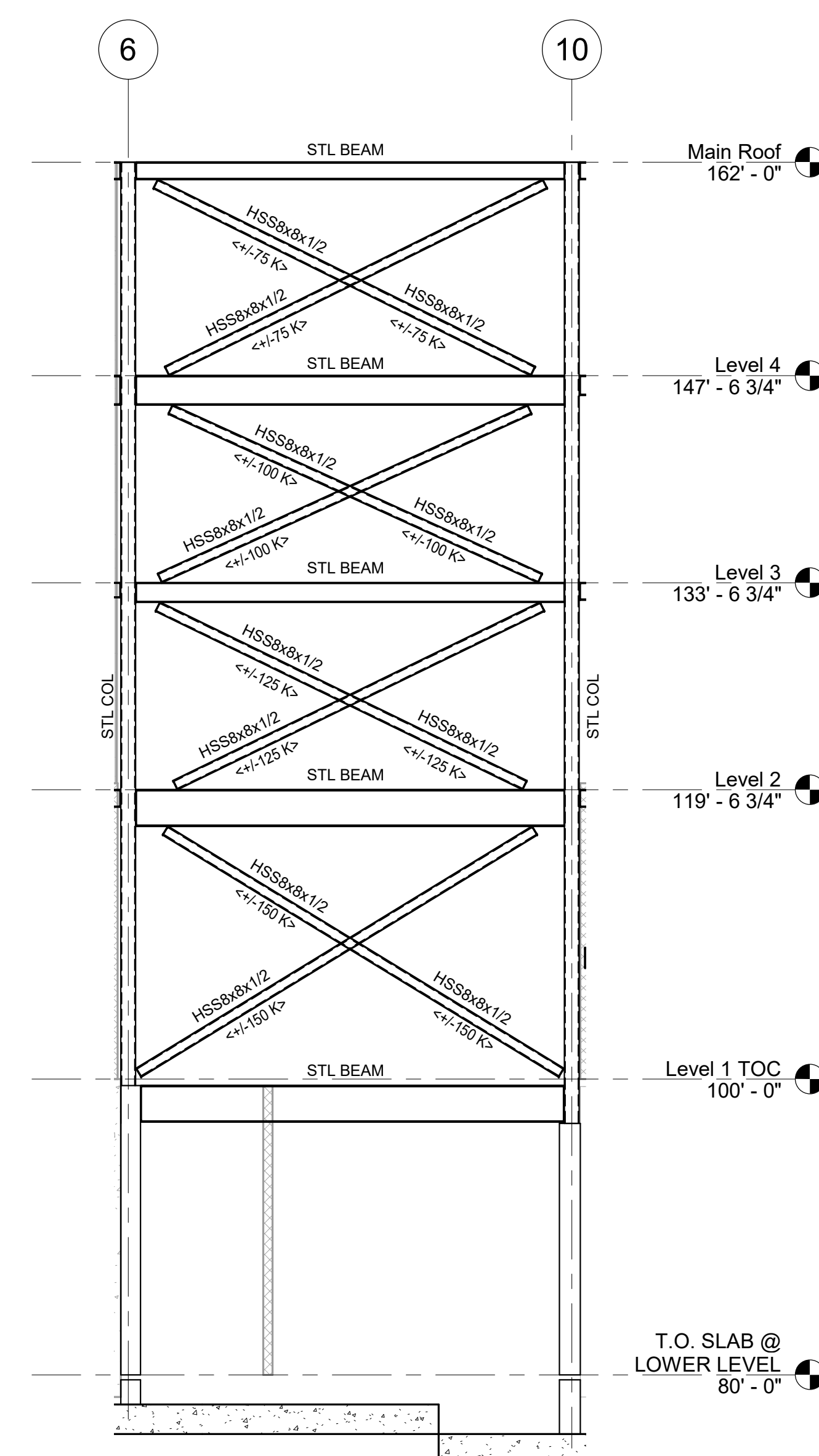
**BF-B15**  
ALONG GRIDLINE 13



**BF-B17**  
ALONG GRIDLINE 2



**BF-B18**  
ALONG GRIDLINE Y 9



**BF-B19**  
ALONG GRIDLINE Y 9

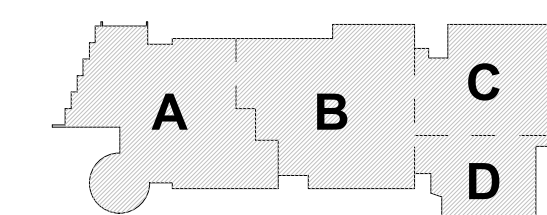
**NOTES:**

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- 3.) DESIGN DIAGONAL MEMBER CONNECTIONS FOR TWICE THE AXIAL DESIGN FORCE SHOWN BELOW EACH MEMBER <30K> (TENSION OR COMPRESSION). AXIAL DESIGN FORCE IS BASED ON L/R/D. USE GENERAL UNIFORM FORCE METHOD FOR CONNECTION DESIGN.
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- 5.) BOLTED CONNECTIONS IN BRACED FRAMES SHALL BE DESIGNED AS SLIP CRITICAL CONNECTIONS.
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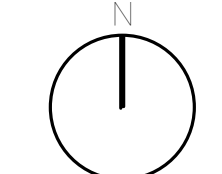
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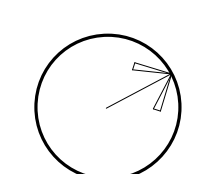


KEY PLAN

PROJECT NORTH



MAGNETIC NORTH



**BRACE FRAME  
ELEVATION -  
AREA B**

Scale: 1/8" = 1'-0"

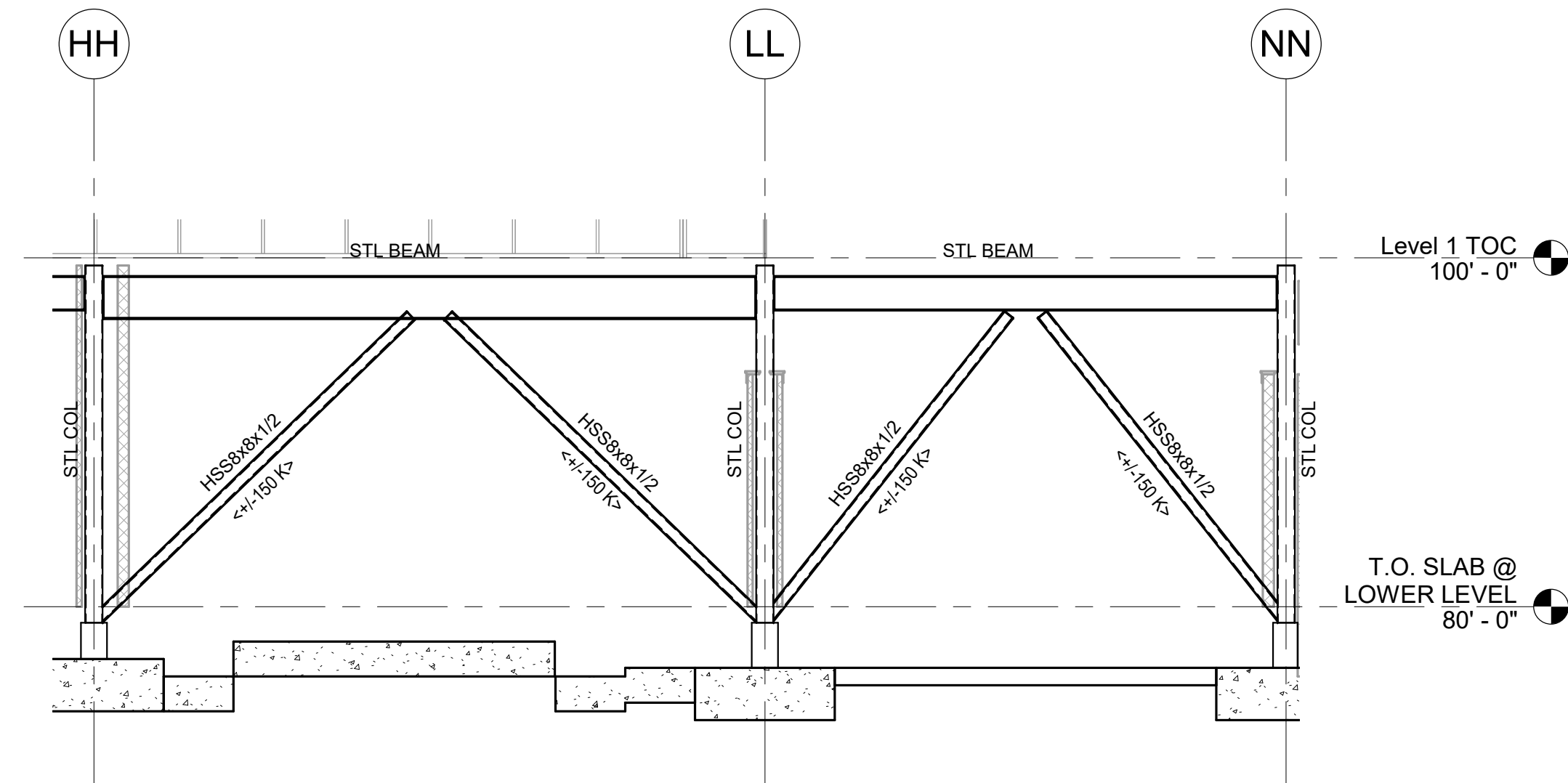
Job No.: 20202

Drawn By: EDG

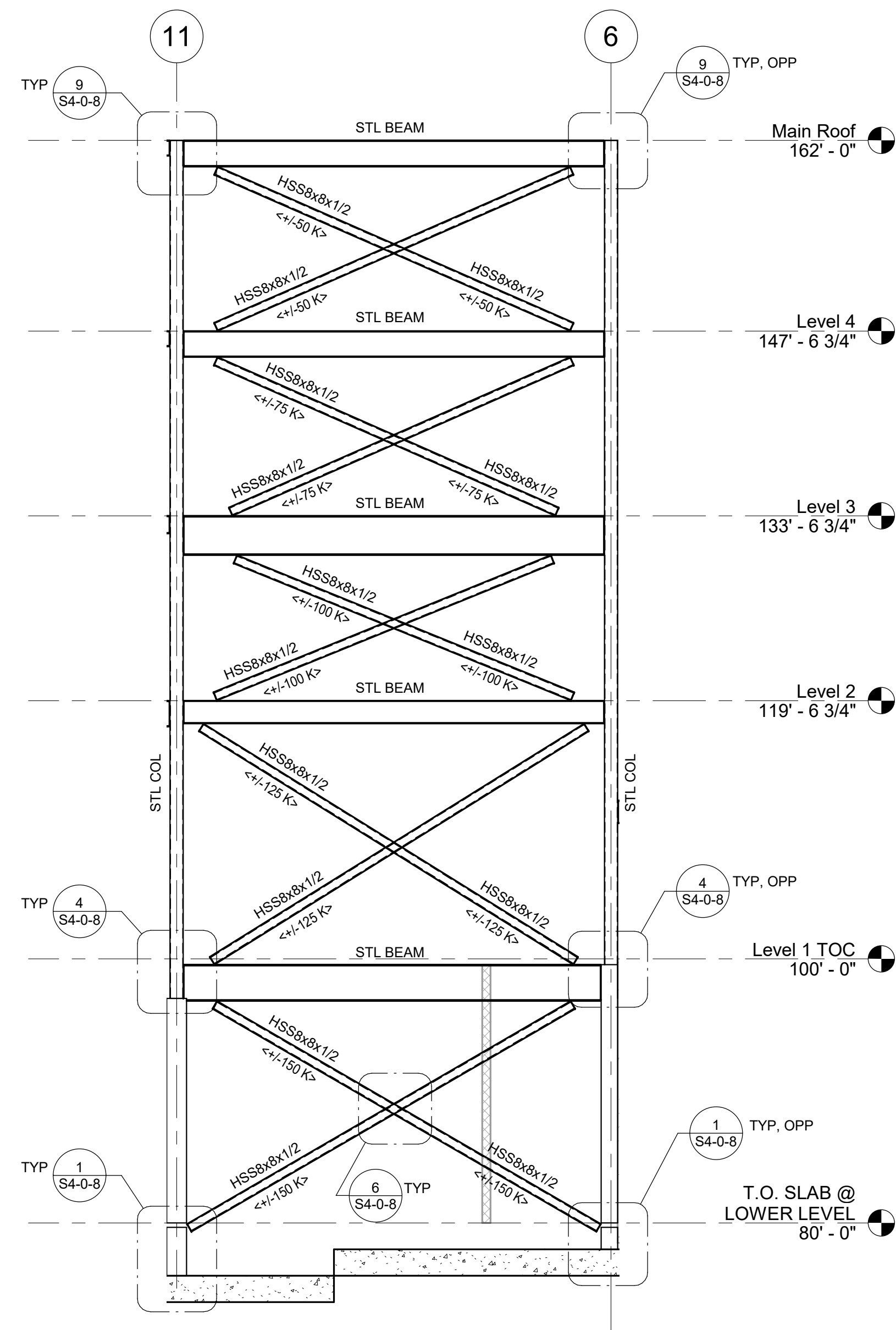
Date: 01/13/2023

**S4-0-3**

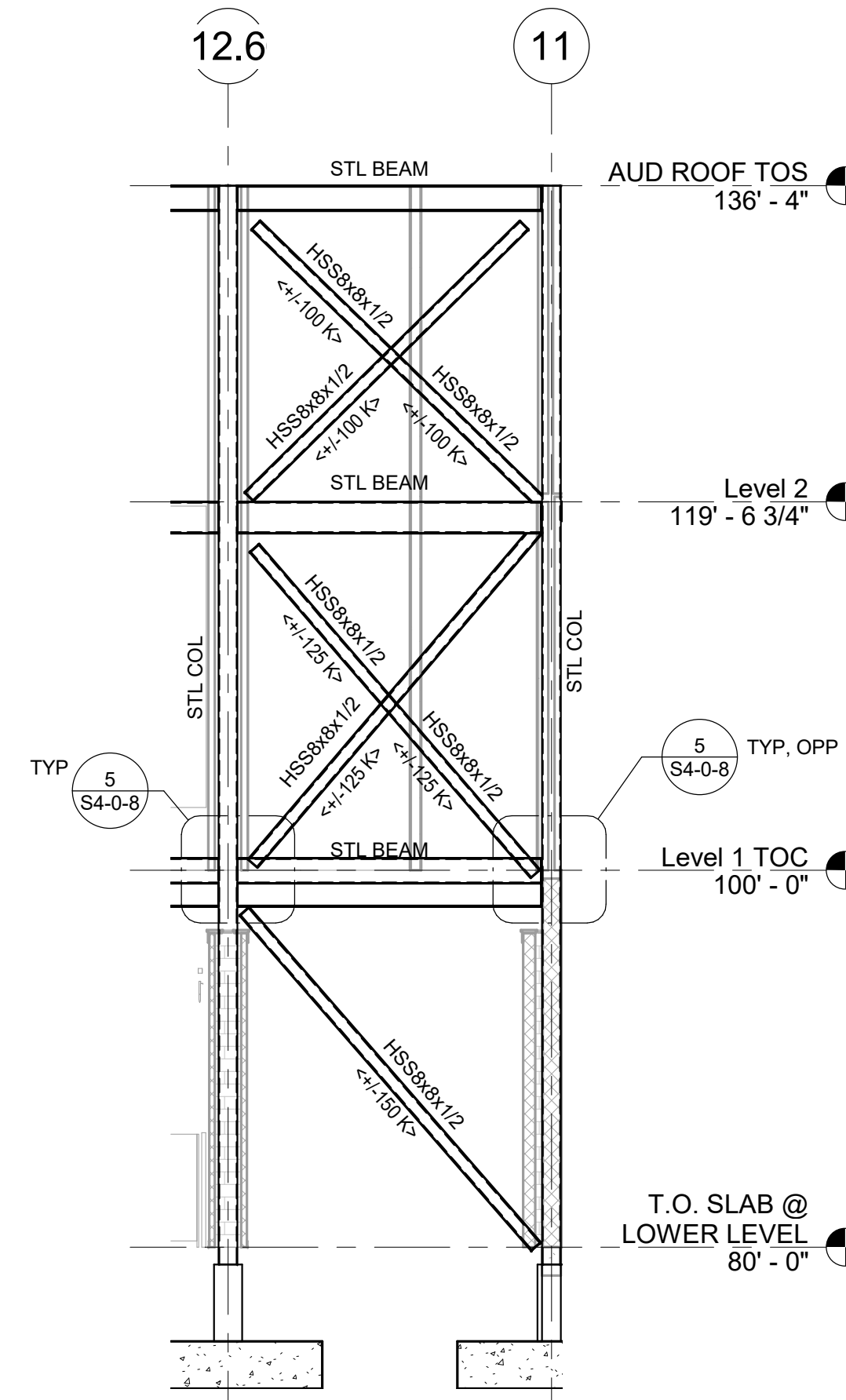




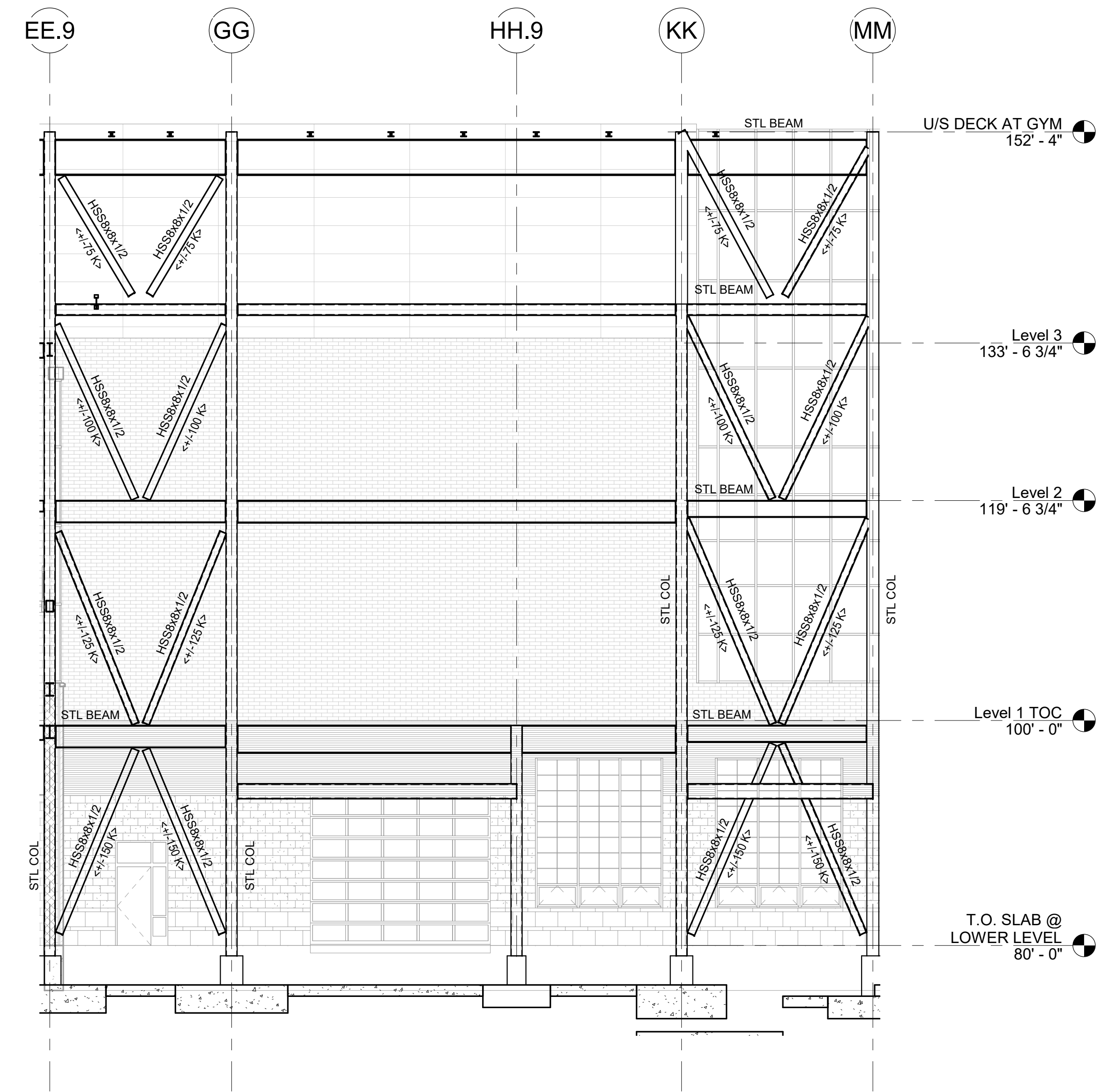
**BF-C1**  
ALONG GRIDLINE 2



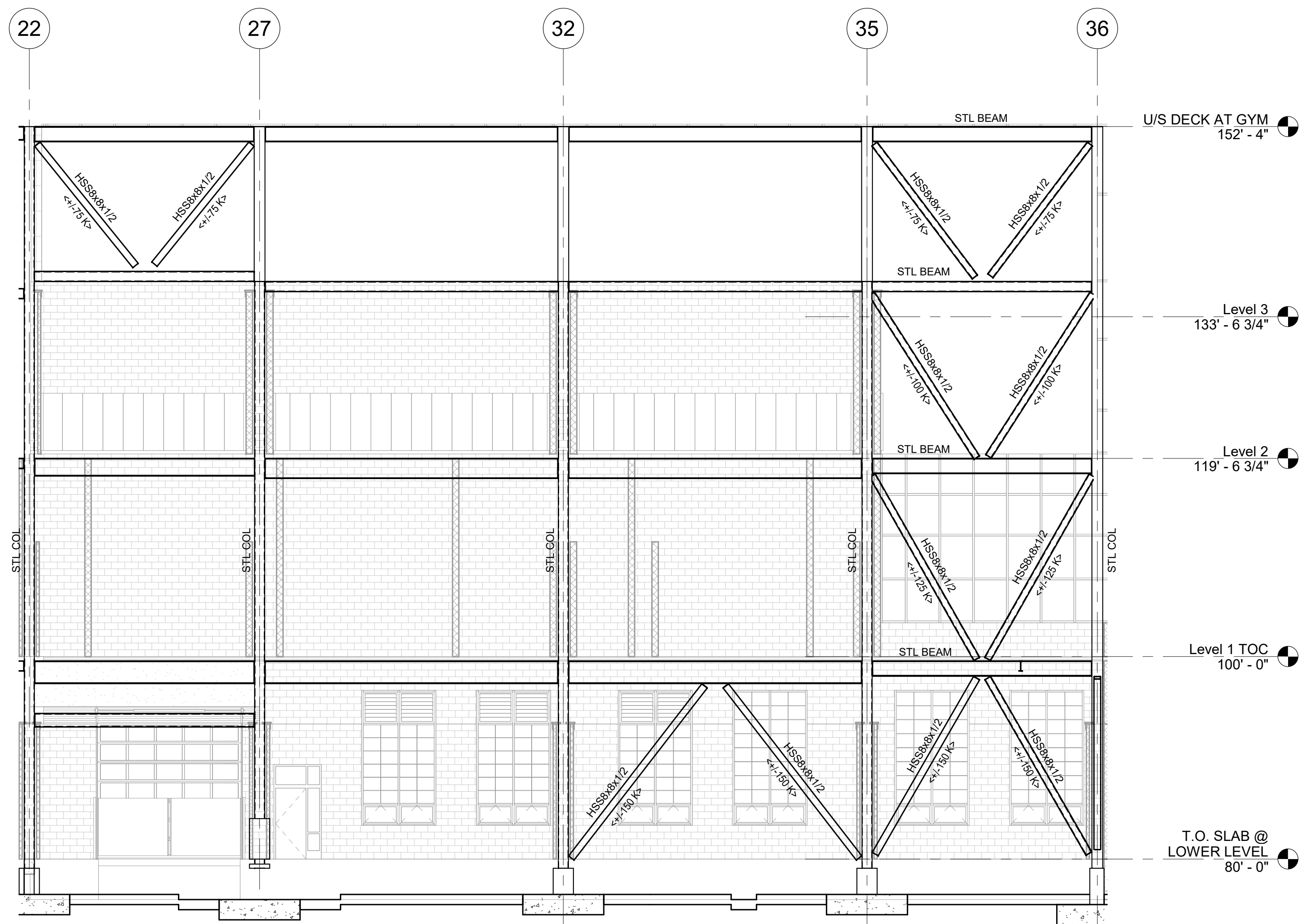
**BF-C2**  
ALONG GRIDLINE AA



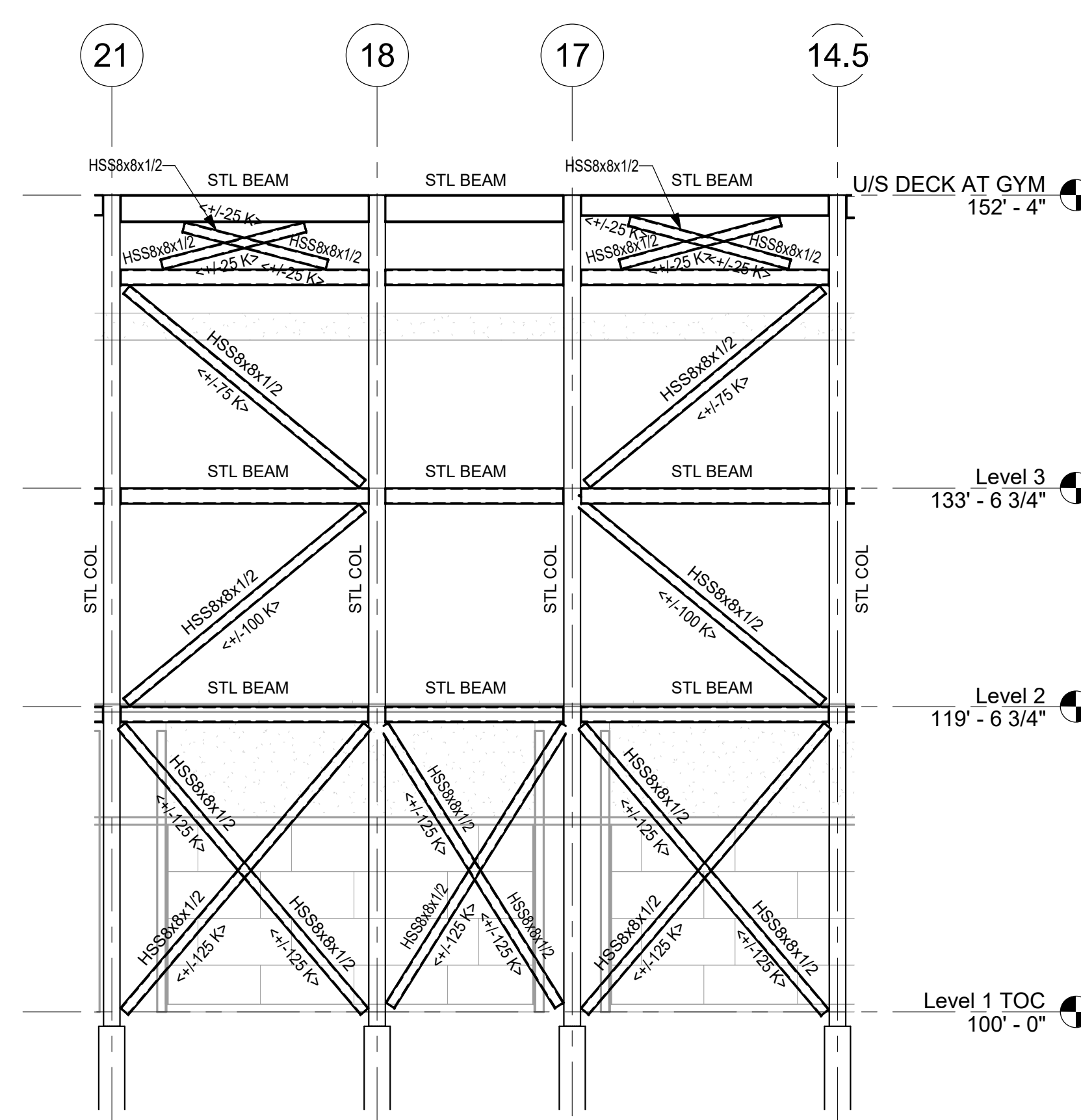
**BF-C3**  
ALONG GRIDLINE PP



**BF-D1 AND SW-D3**  
ALONG GRIDLINE 36



**BF-D2 AND SW-D2**  
ALONG GRIDLINE MM



**BF-D4**  
ALONG GRIDLINE AA

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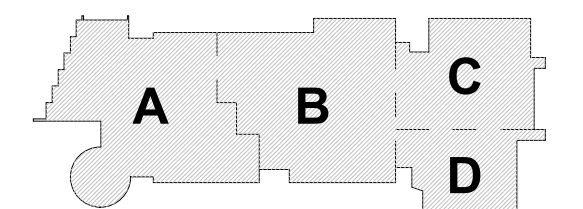
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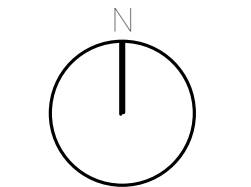
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01/13/2023

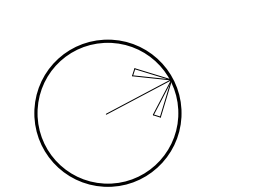


KEY PLAN

PROJECT NORTH



MAGNETIC NORTH



**BRACED FRAME  
ELEVATION C +  
D**

Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: EDG

Date: 01/13/2023

**S4-0-4**

**NOTES:**

- 1.) FABRICATOR IS RESPONSIBLE FOR BRACE CONNECTION DESIGN.
- 2.) ELEVATIONS ARE SCHEMATIC ONLY AND INTENDED TO SHOW CONFIGURATION OF BRACED FRAMES AND BRACE FORCES.
- 3.) DESIGN DIAGONAL MEMBER CONNECTIONS FOR TWICE THE AXIAL DESIGN FORCE SHOWN BELOW EACH MEMBER. (TENSION OR COMPRESSION). AXIAL DESIGN FORCE IS BASED ON LRFD. USE GENERAL UNIFORM FORCE METHOD FOR CONNECTION DESIGN.
- 4.) DO NOT WELD TOP END OF DIAGONAL BRACE MEMBERS IN PLACE UNTIL FLOOR SLABS AND ROOFING ARE IN PLACE. WELDS MUST BE FULLY INSPECTED AND APPROVED PRIOR TO PLACING ANY CONCRETE OR INSTALLING OTHER MATERIALS THAT WOULD COVER THE CONNECTIONS.
- 5.) BOLTED CONNECTIONS IN BRACED FRAMES SHALL BE DESIGNED AS SLIP CRITICAL CONNECTIONS.
- 6.) SEE PLANS FOR COLUMN AND BEAM SIZES.



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## NORTHEAST METRO TECH

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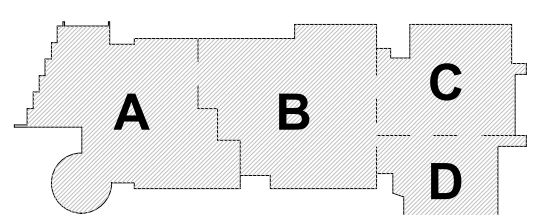


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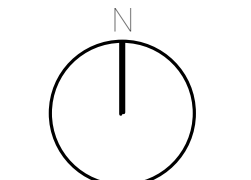
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Submission

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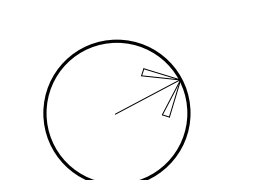


KEY PLAN

PROJECT NORTH



MAGNETIC NORTH



## SHEAR WALLS

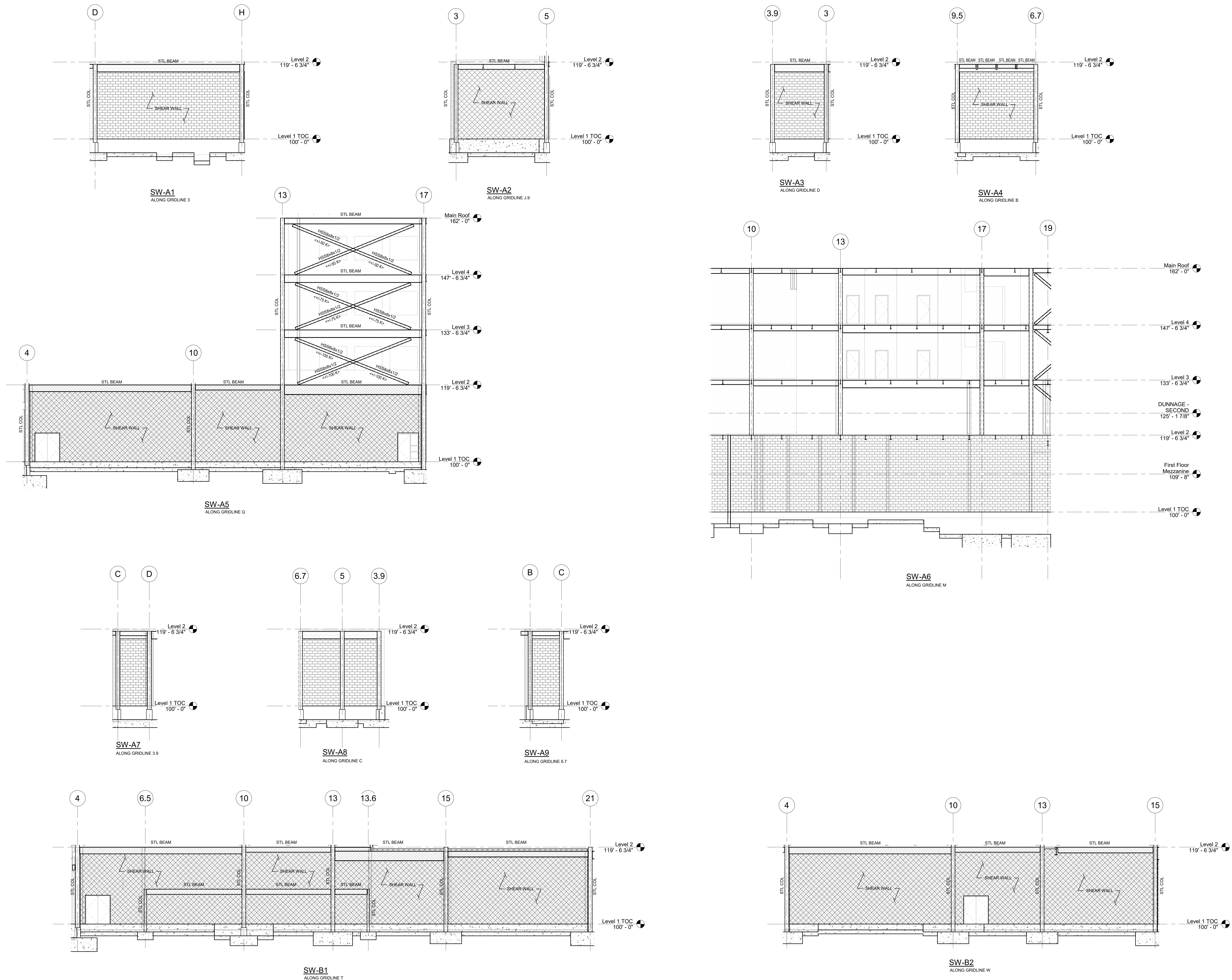
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**S4-0-5**





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**NORTHEAST  
METRO TECH**

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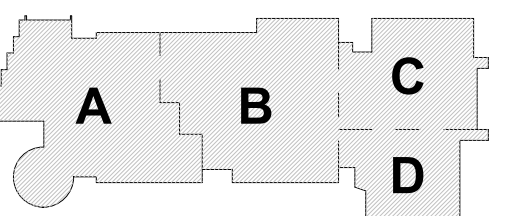


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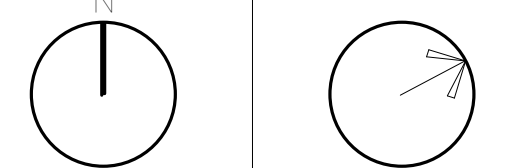
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Submission

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KEY PLAN

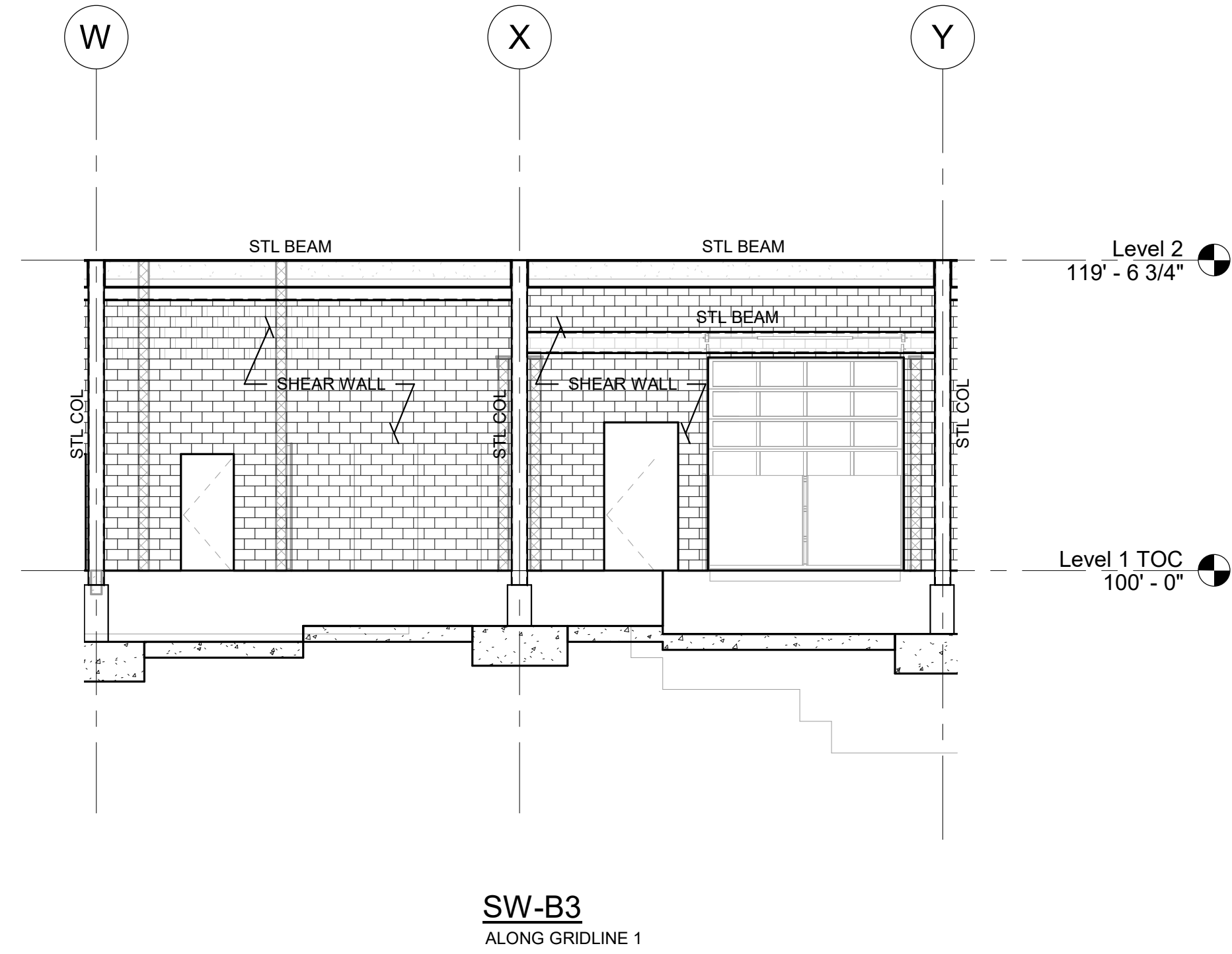
PROJECT NORTH MAGNETIC NORTH



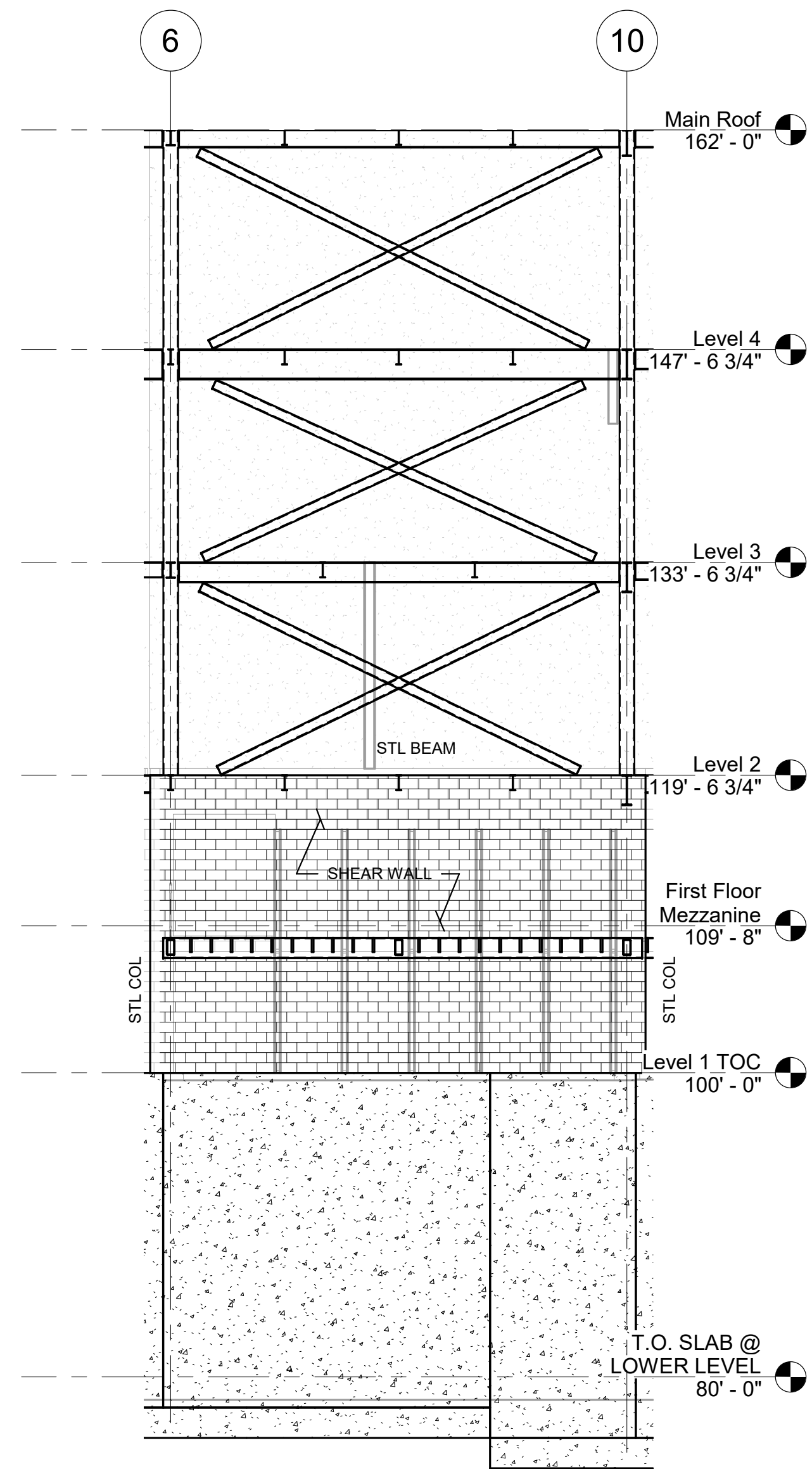
**SHEAR WALLS**

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: EDG  
Date: 01/13/2023

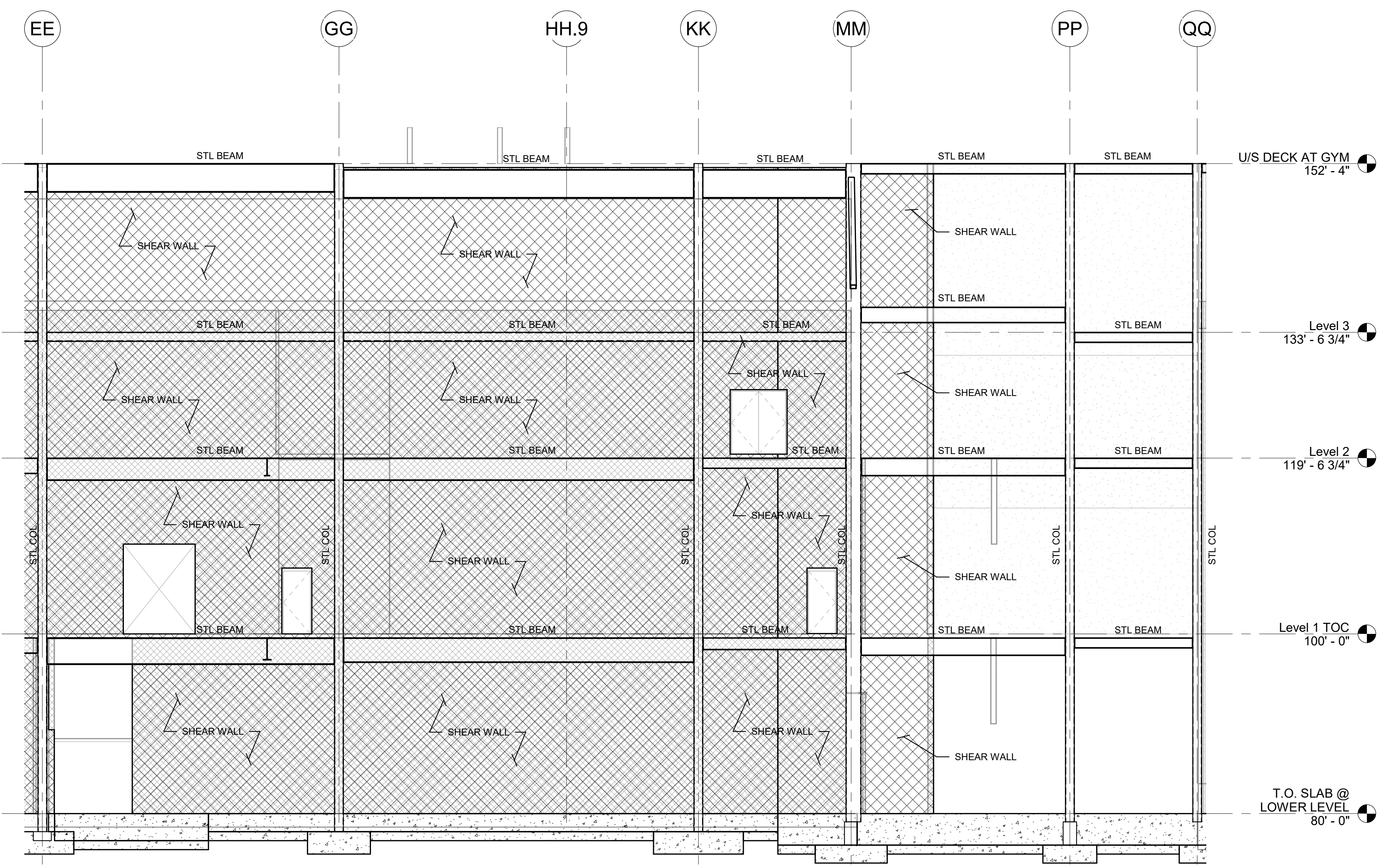
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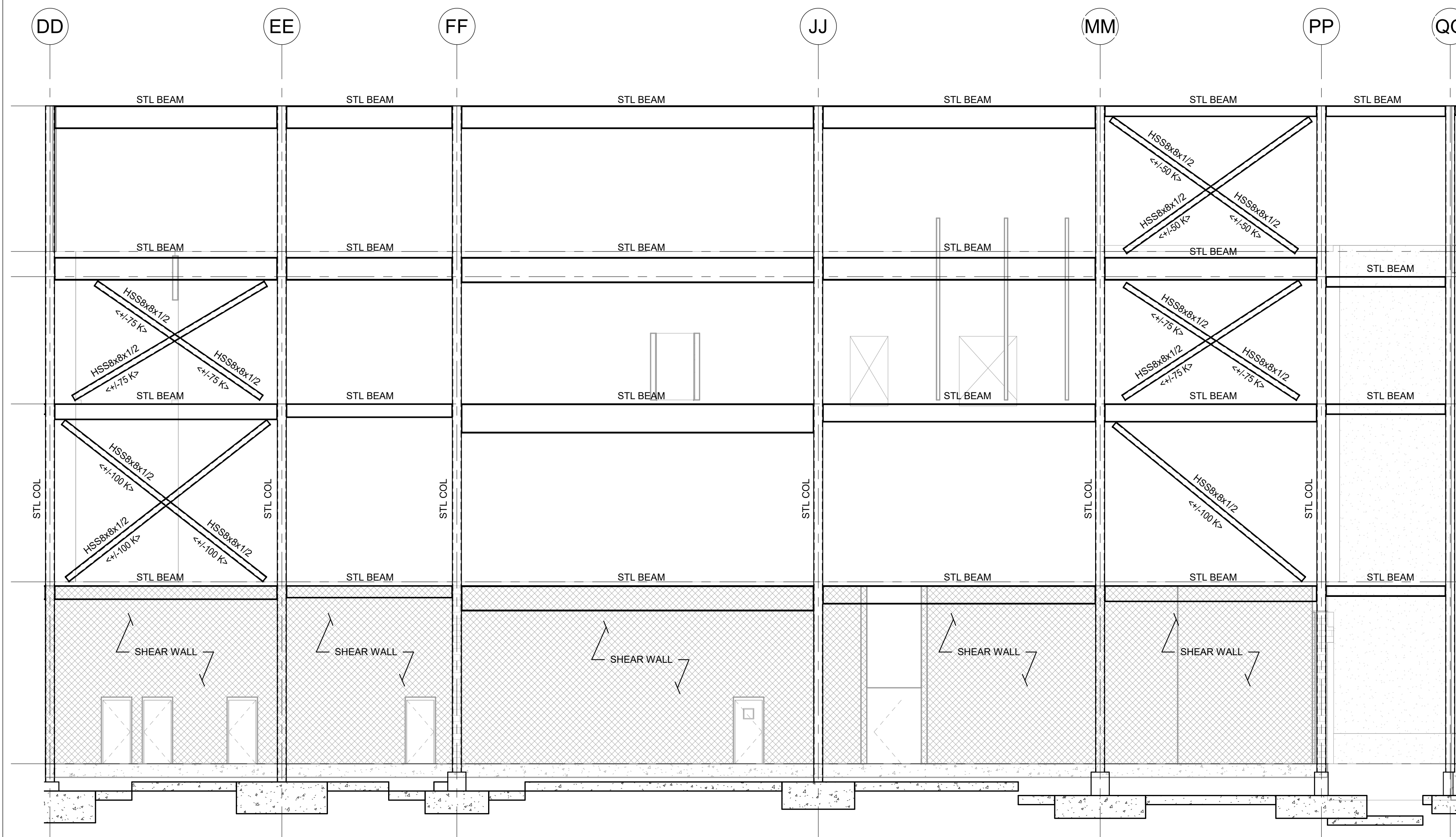
SW-B3  
ALONG GRIDLINE 1



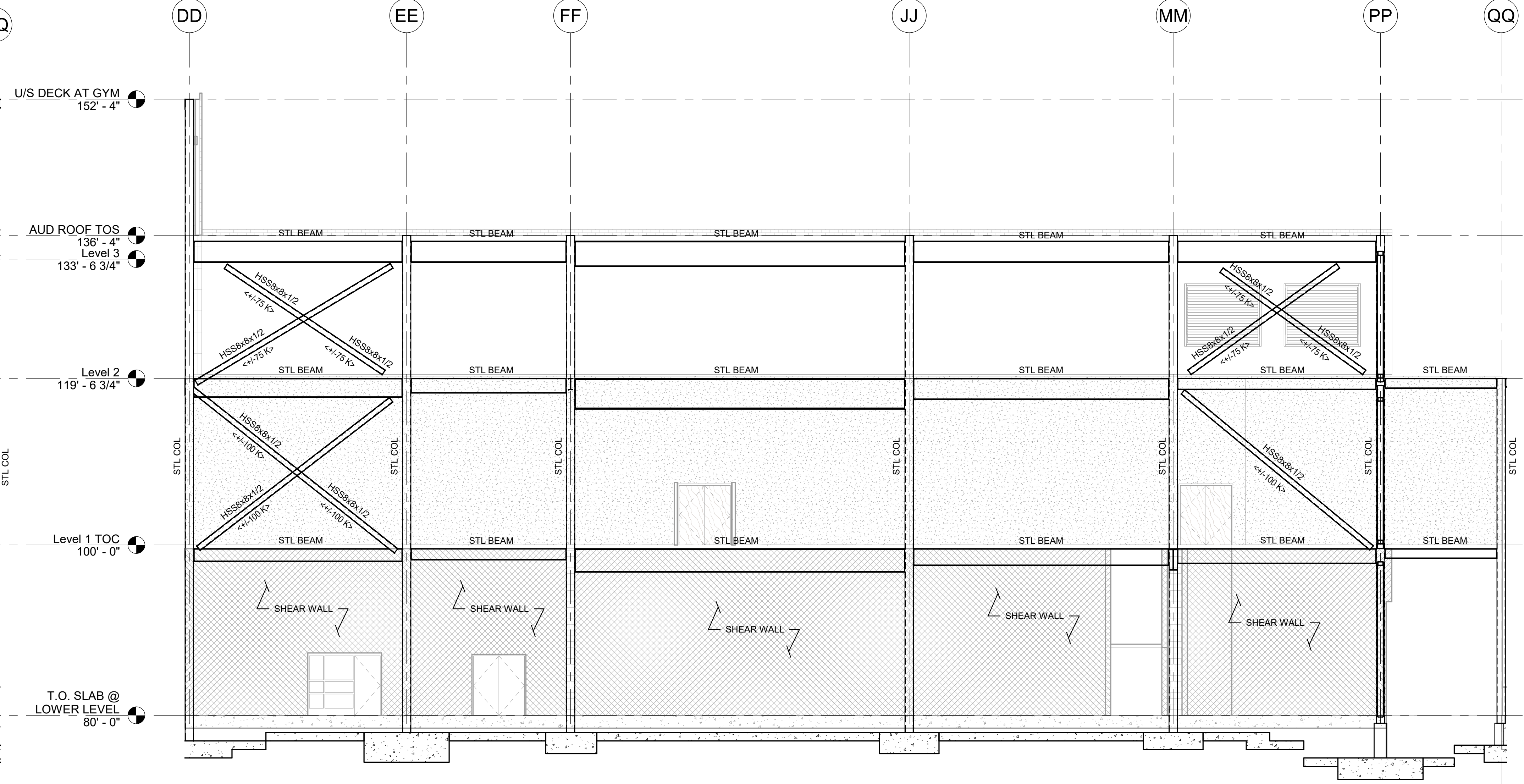
SW-B4  
ALONG GRIDLINE Y 9



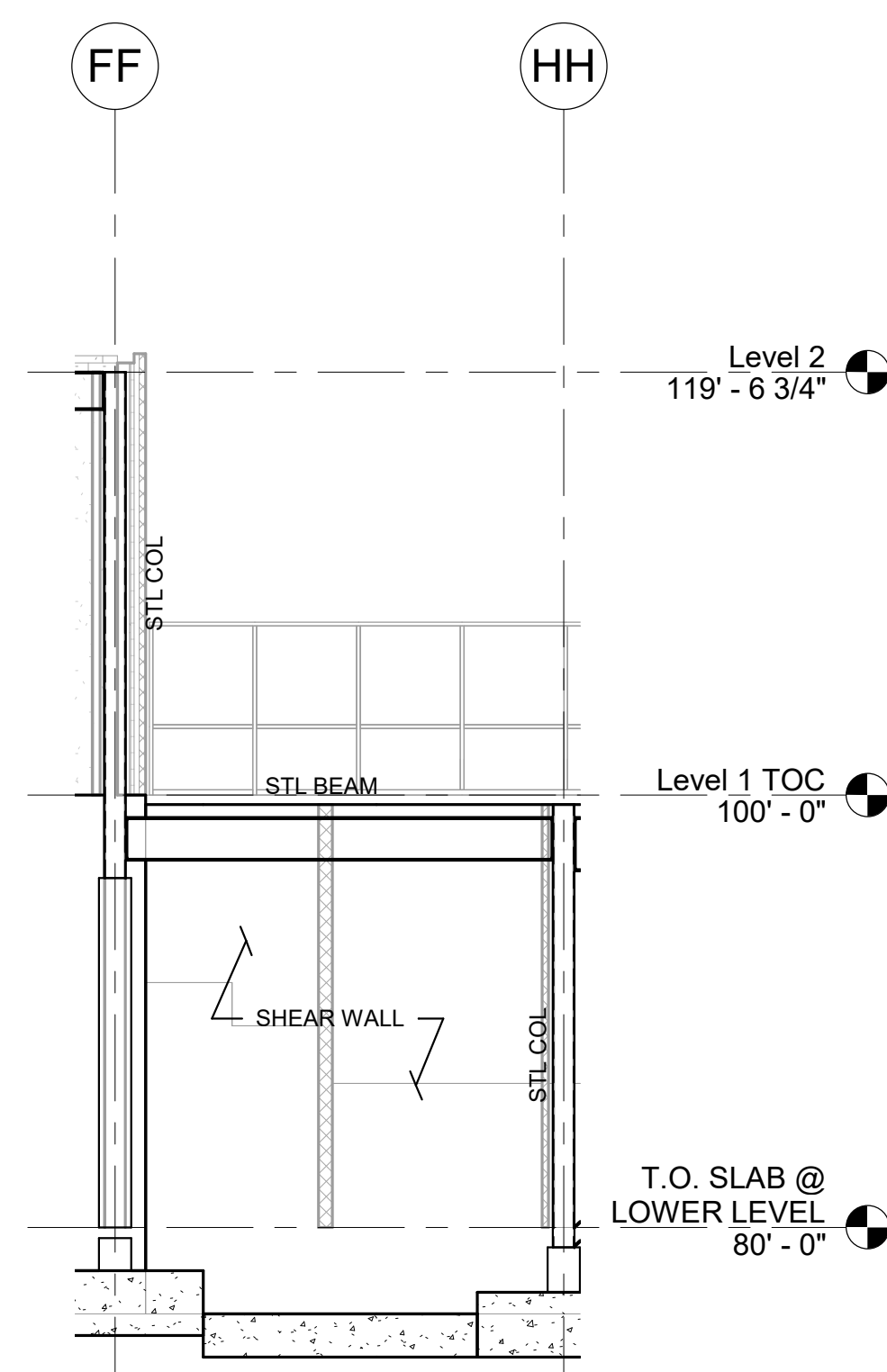
SW-C1  
ALONG GRIDLINE 22



BF-C4 AND SW-C2  
ALONG GRIDLINE 20

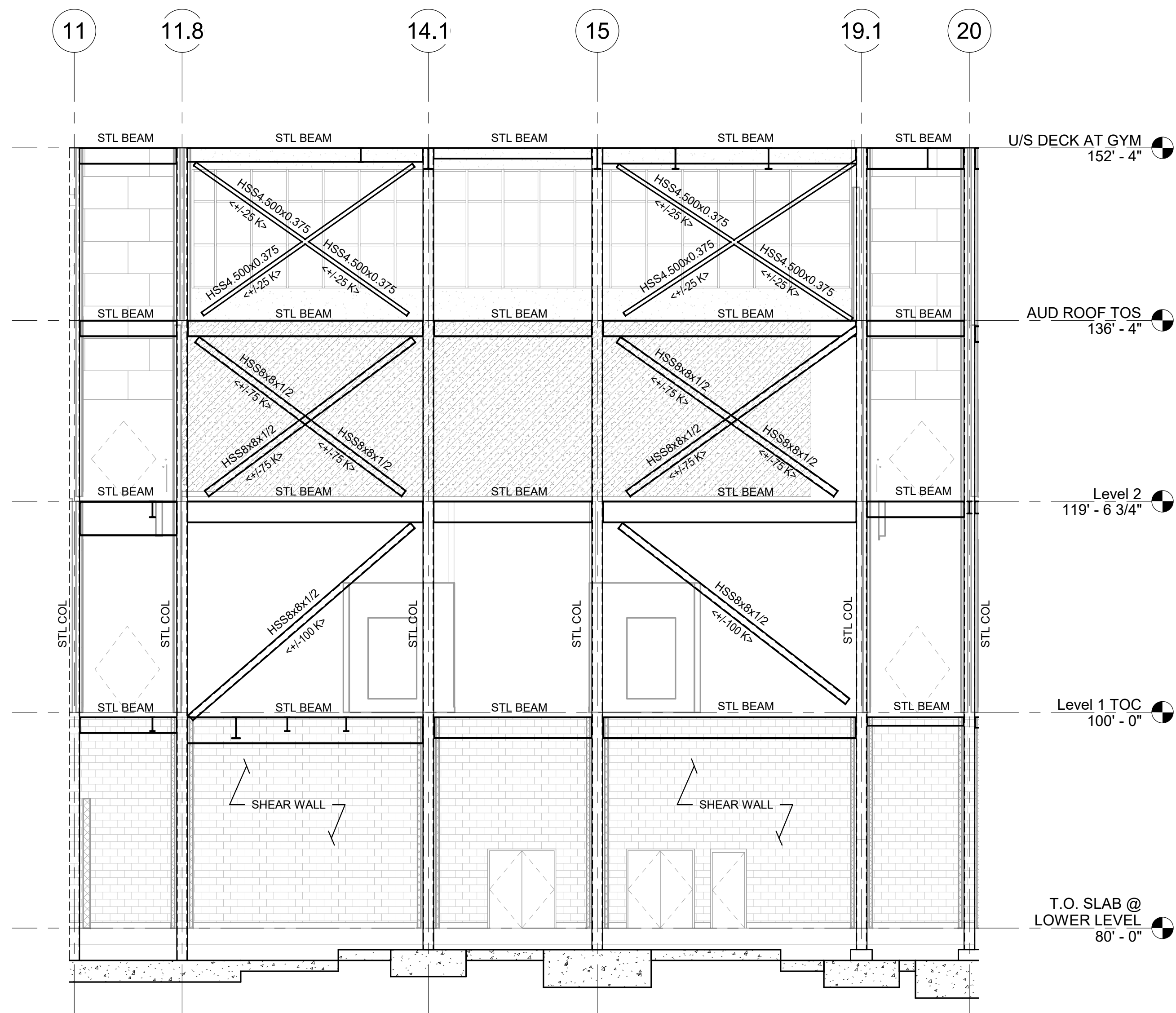


BF-C5 AND SW-C3  
ALONG GRIDLINE 11

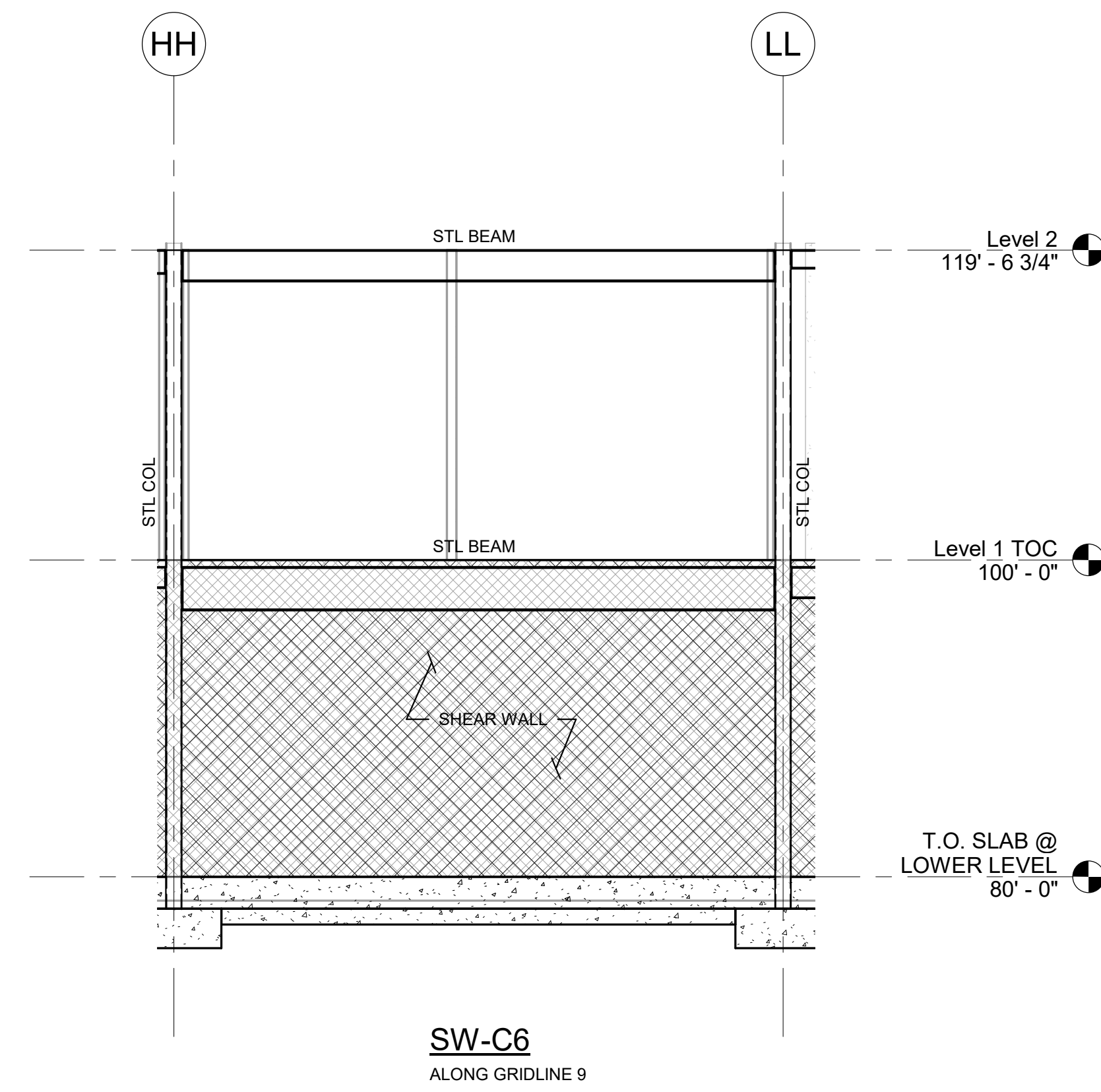


SW-C4  
ALONG GRIDLINE 2

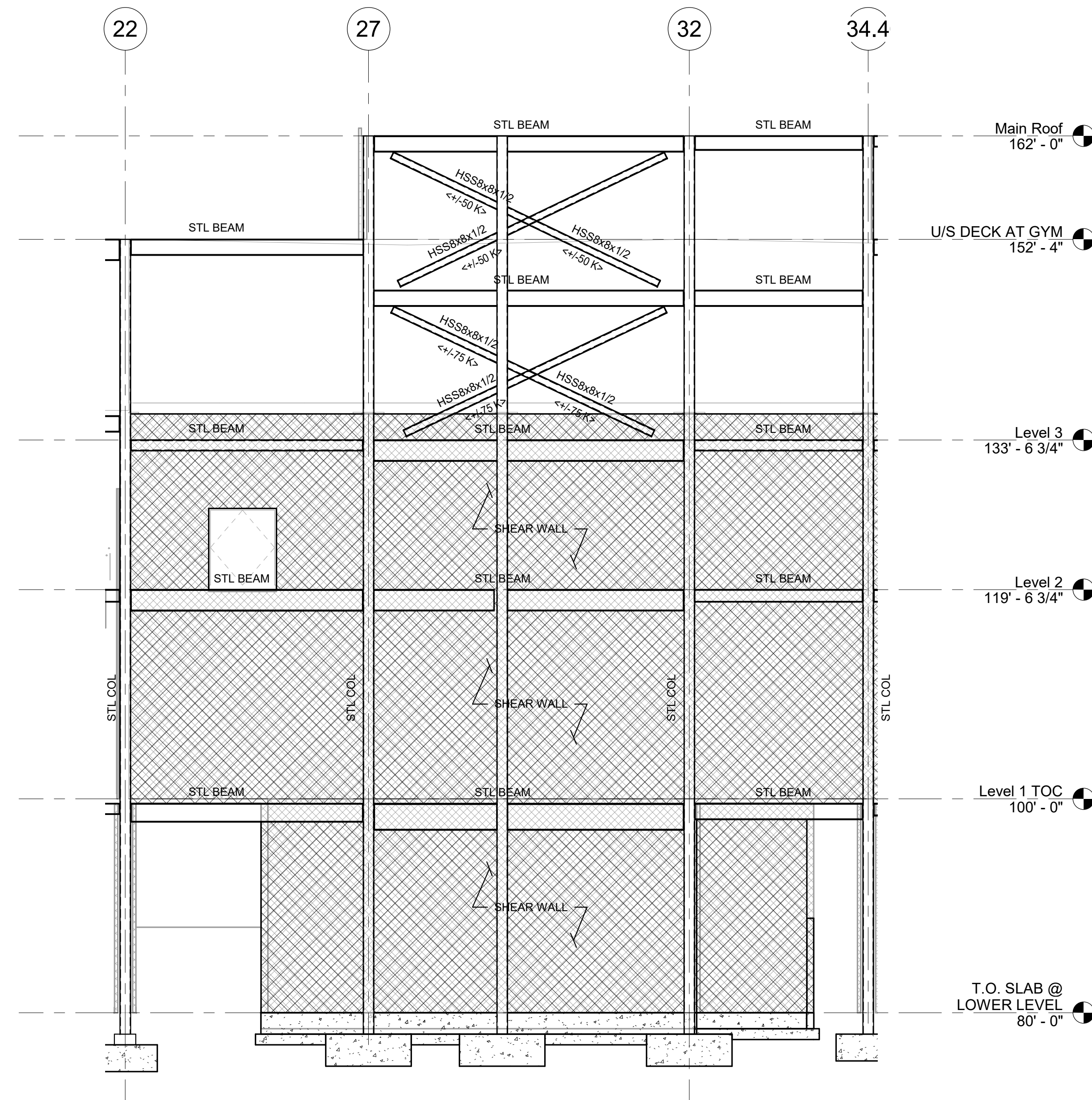




BF-C6 AND SW-C5  
ALONG GRIDLINE DD



SW-C6  
ALONG GRIDLINE 9



BF-D3 AND SW-D1  
ALONG GRIDLINE DD



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## NORTHEAST METRO TECH

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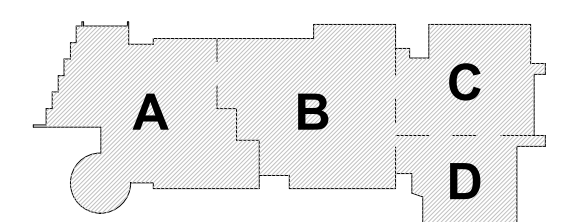


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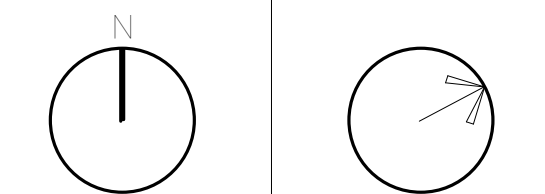
MSBA 60% CD  
Submission

01/13/2023



KEY PLAN

PROJECT NORTH MAGNETIC NORTH



## SHEAR WALLS

Scale: 1/8" = 1'-0"

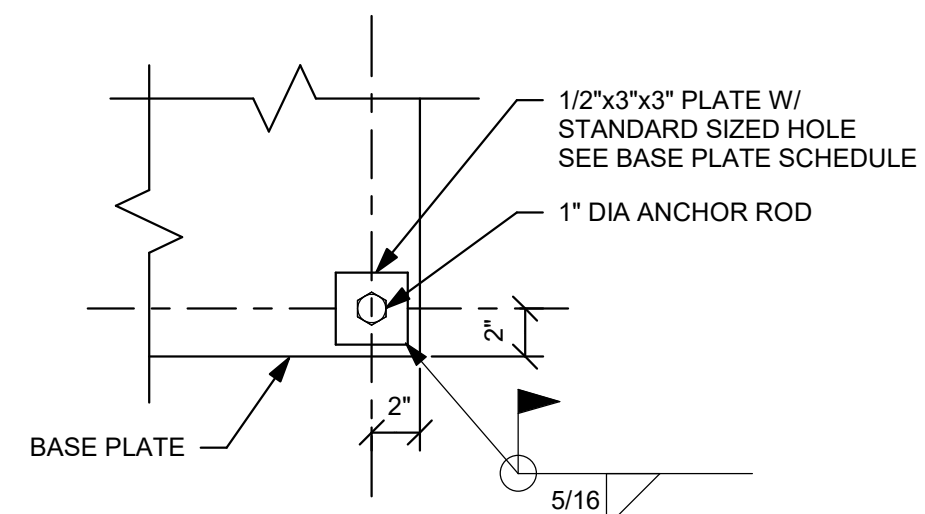
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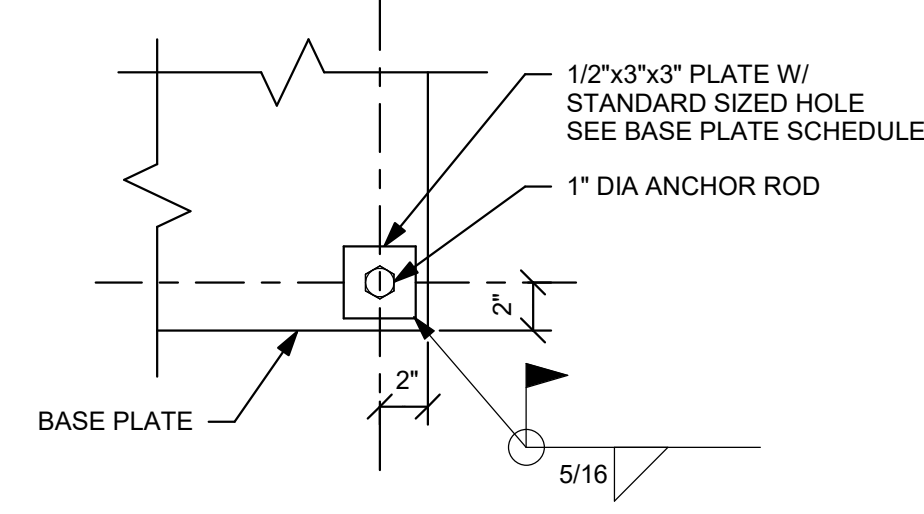
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S4-0-7

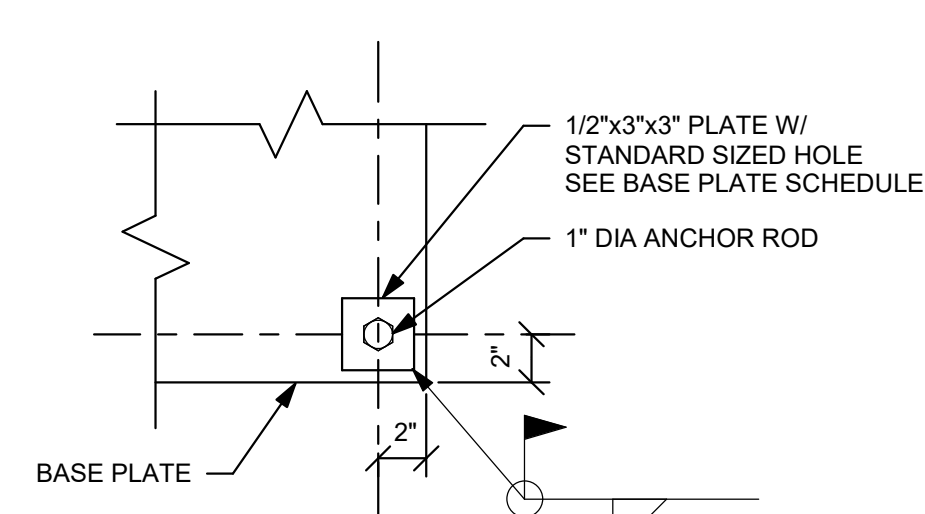




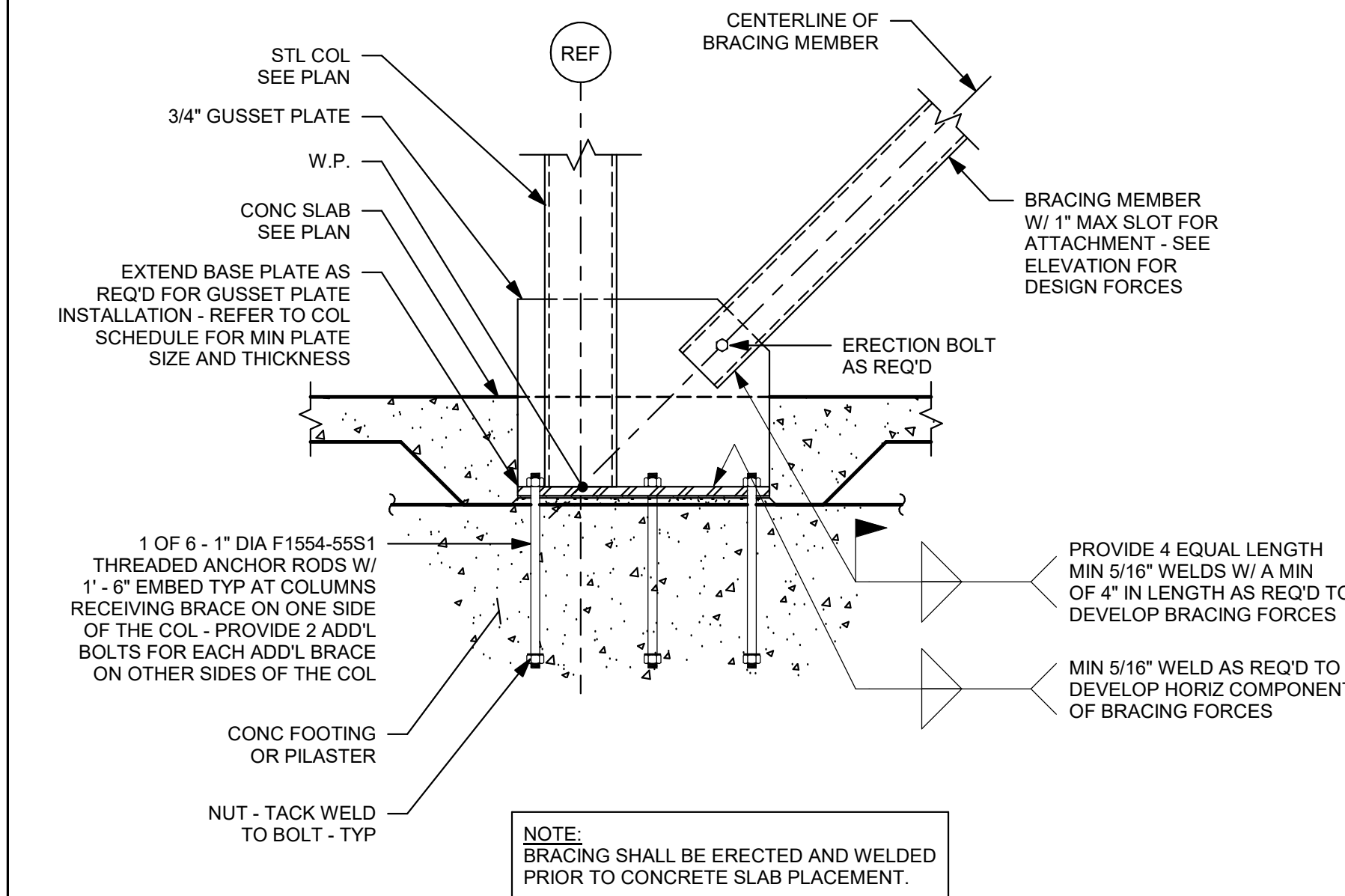
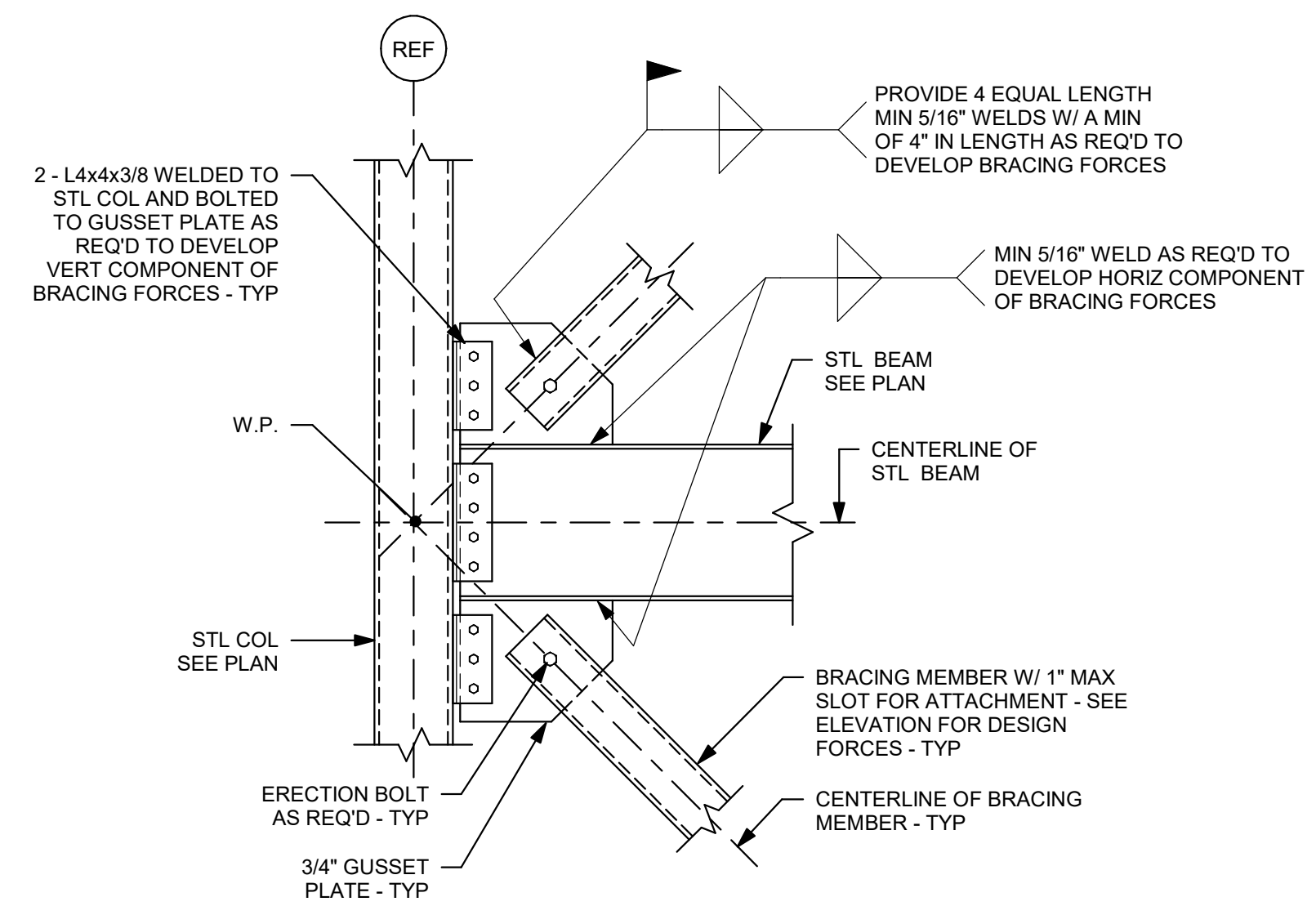
**BASE PLATE DETAIL**



**BASE PLATE DETAIL**

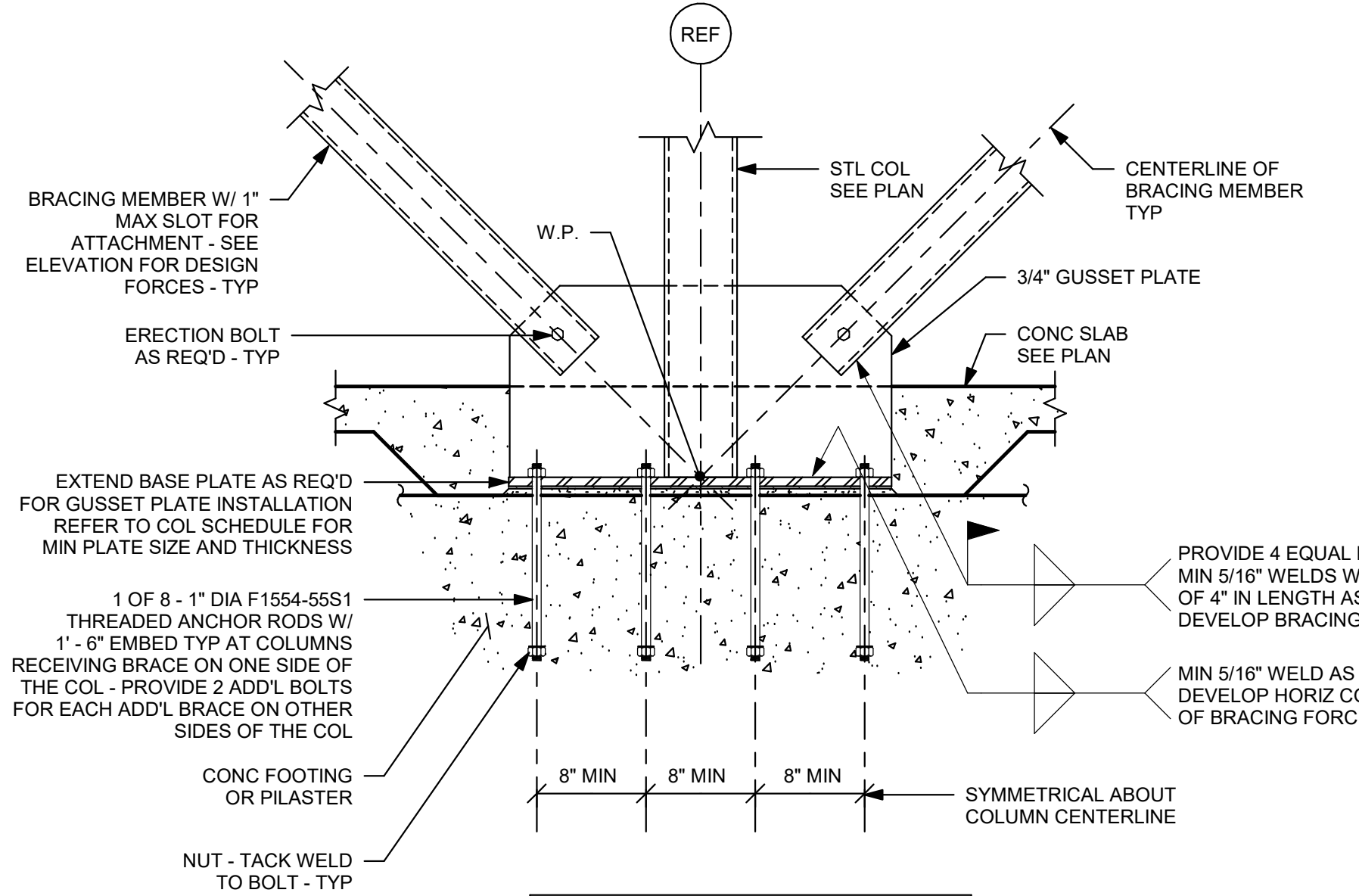


**BASE PLATE DETAIL**



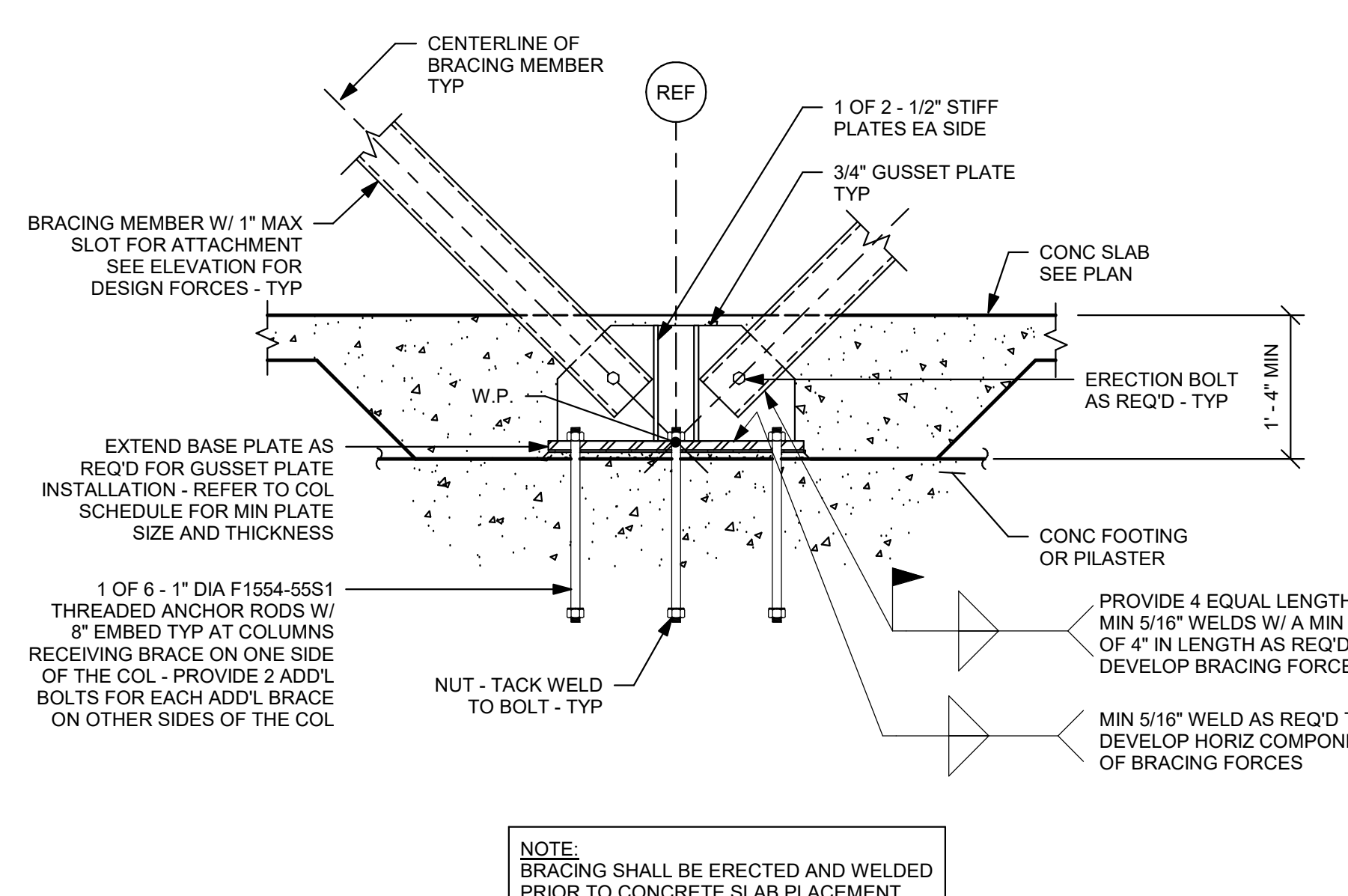
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3/4" = 1' - 0"



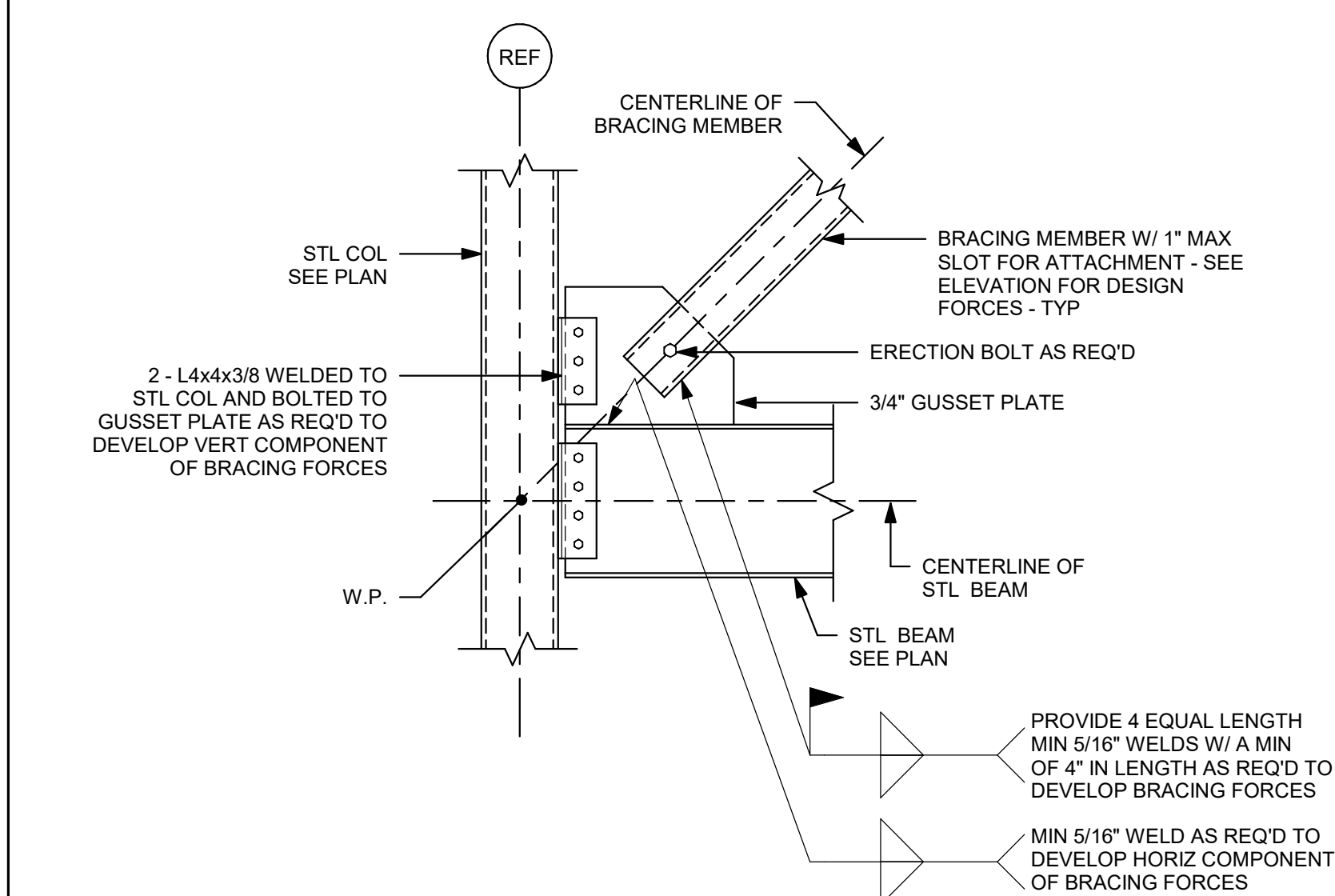
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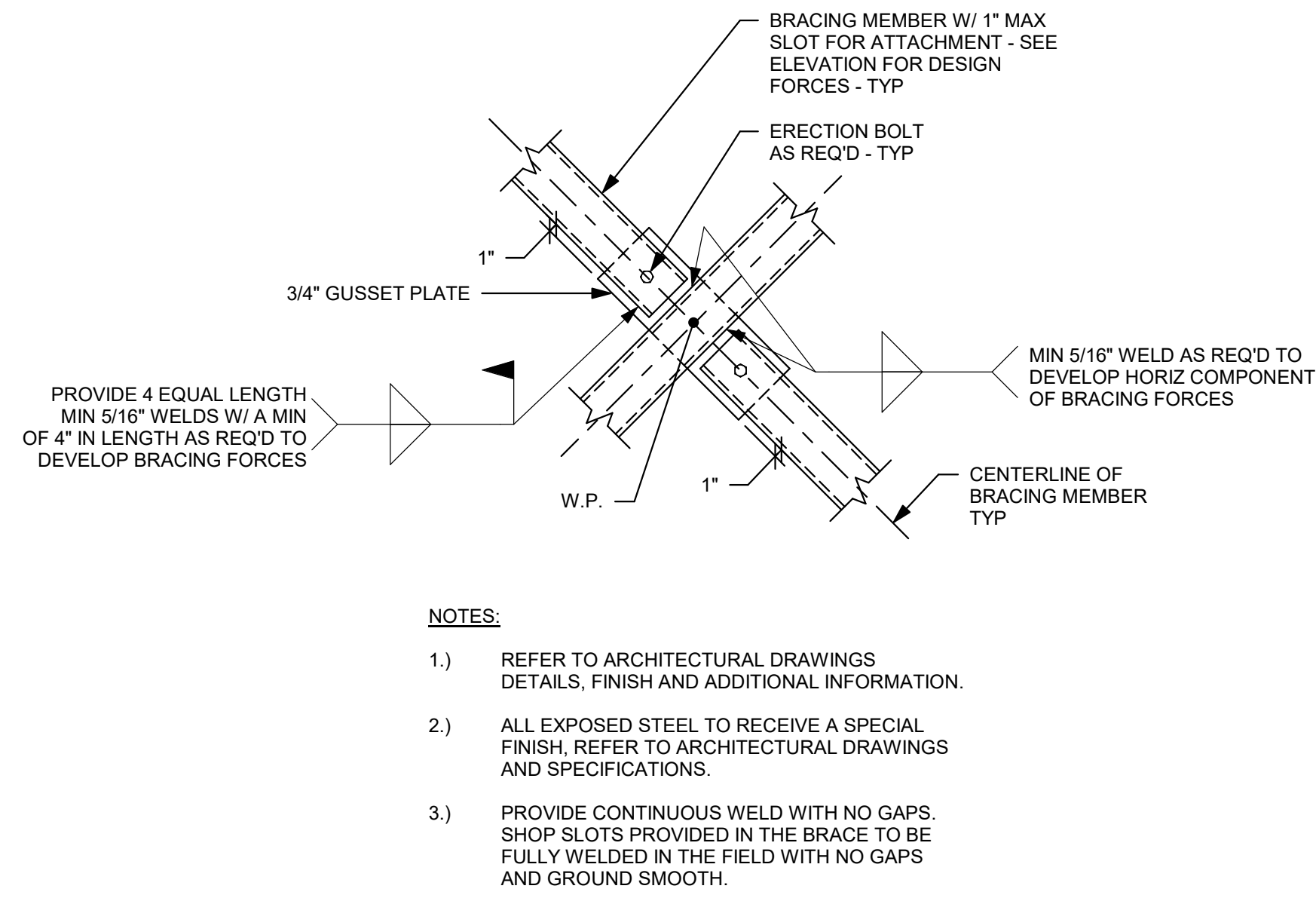
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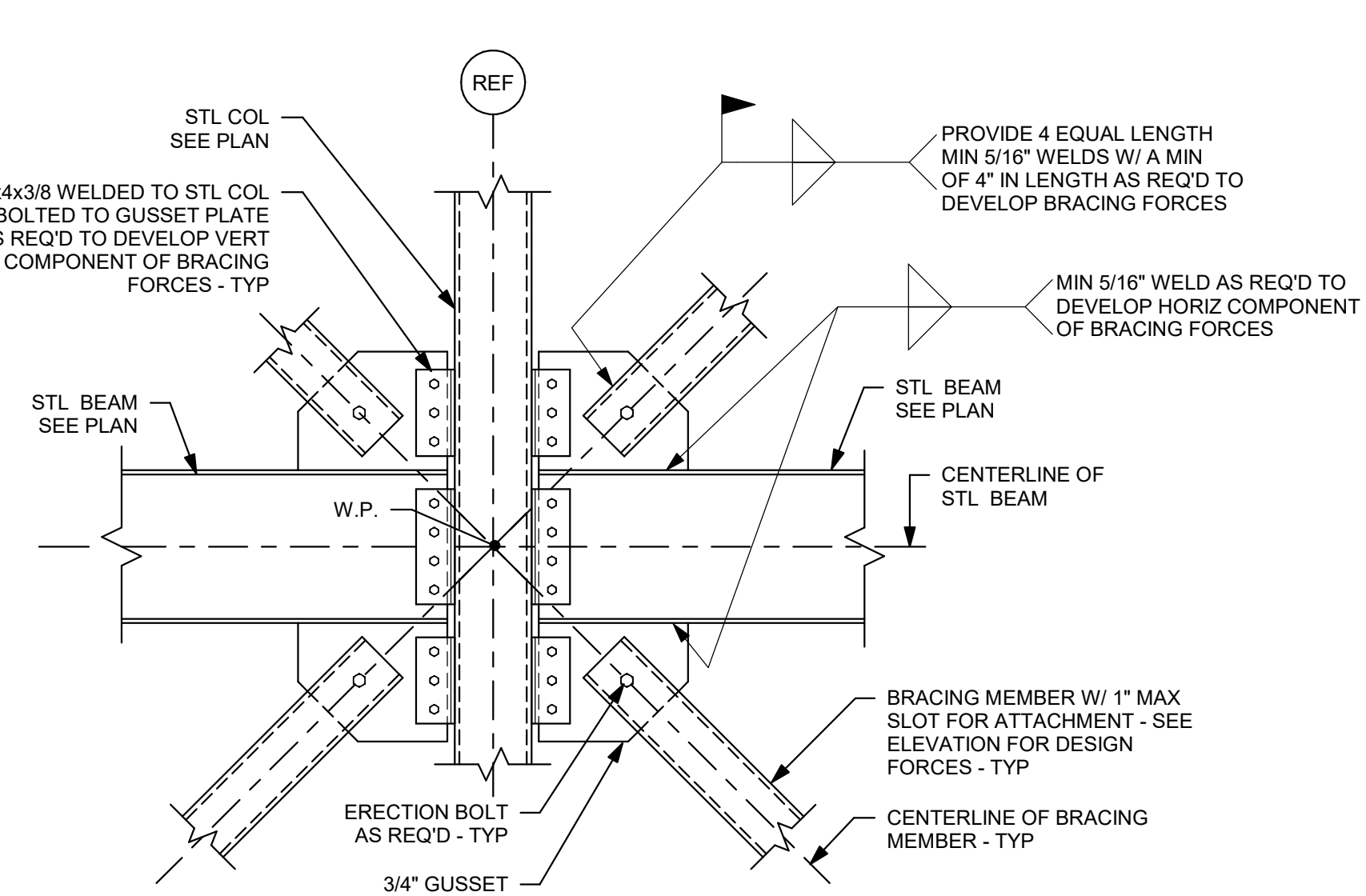
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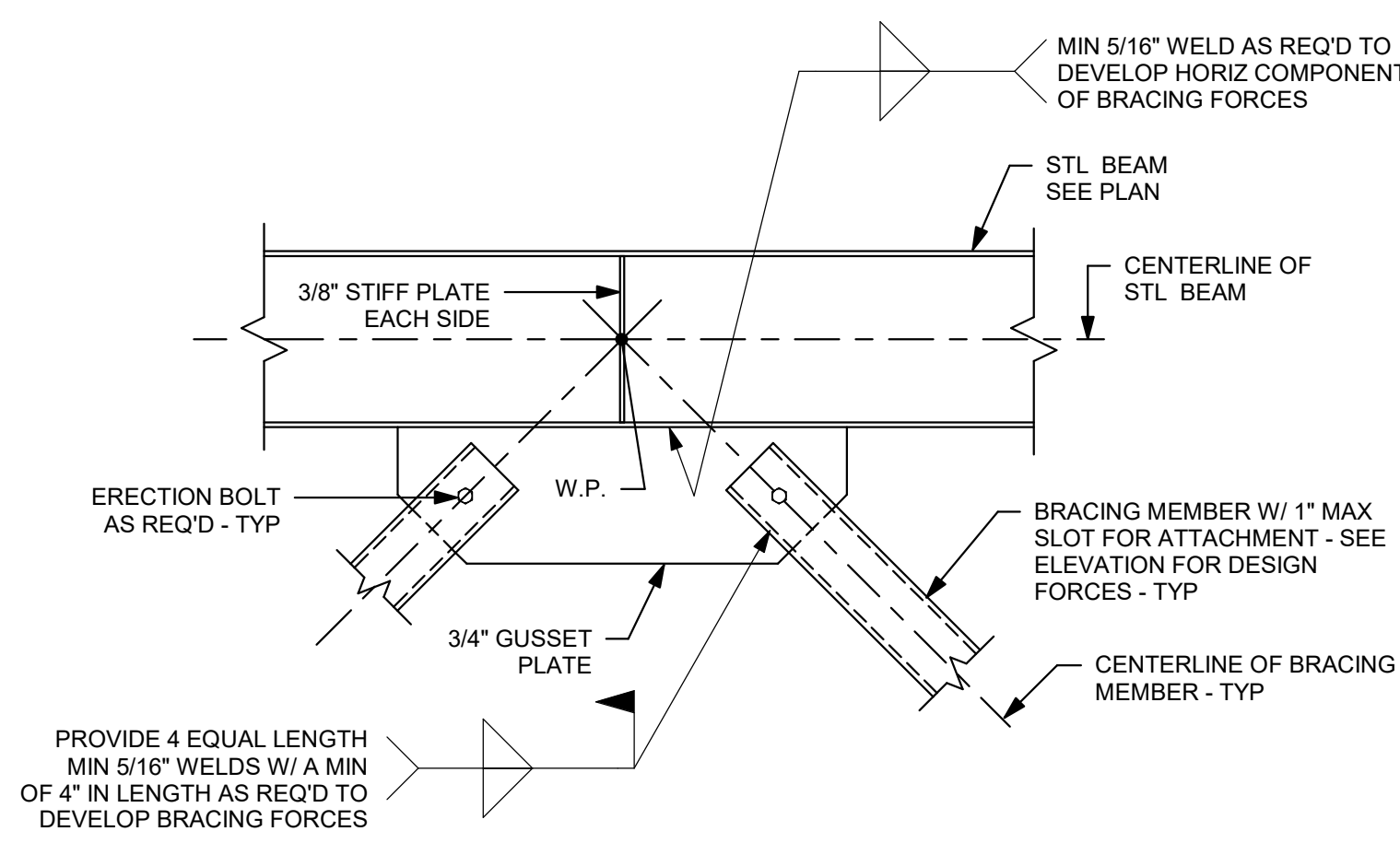
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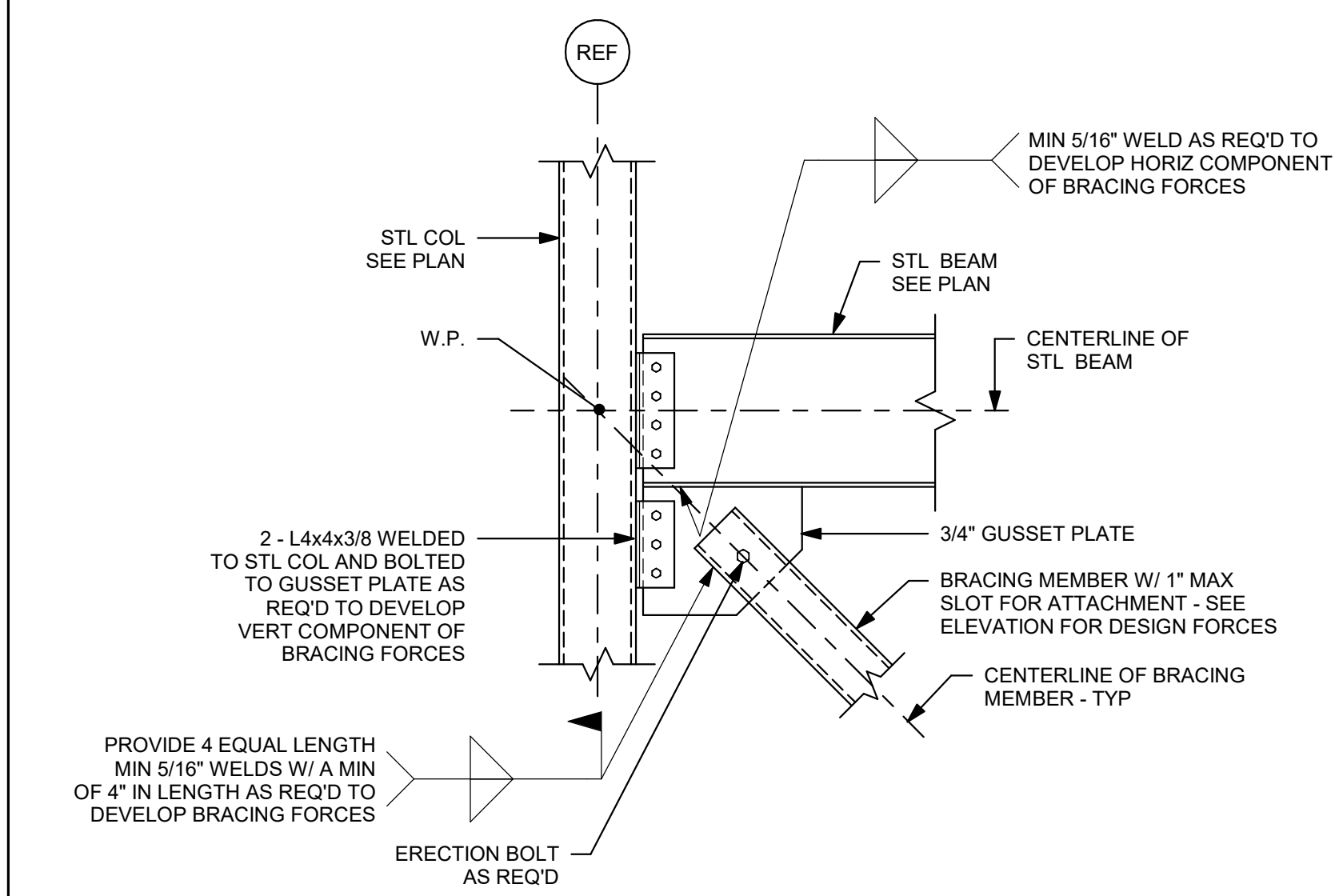
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3/4" = 1' - 0"



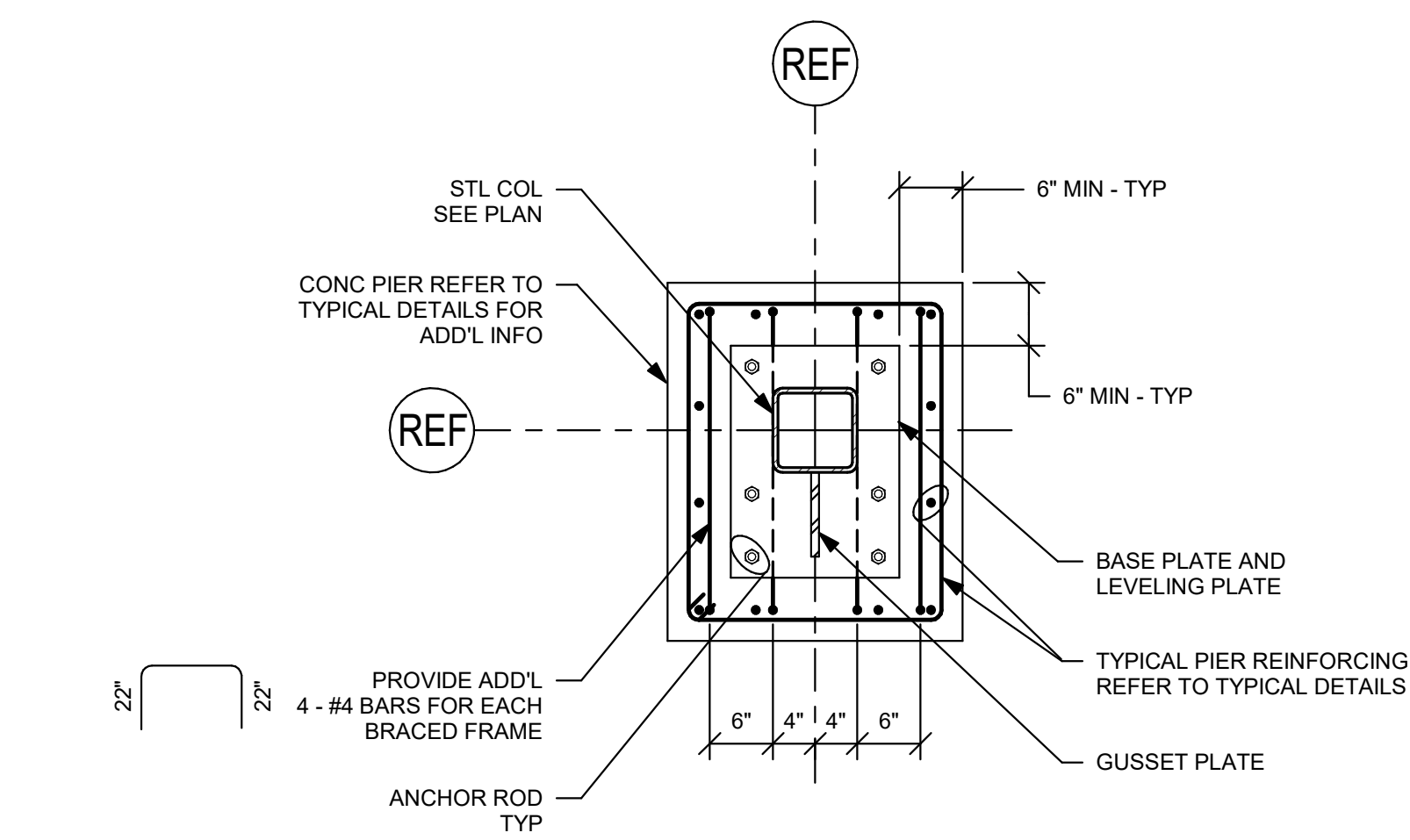
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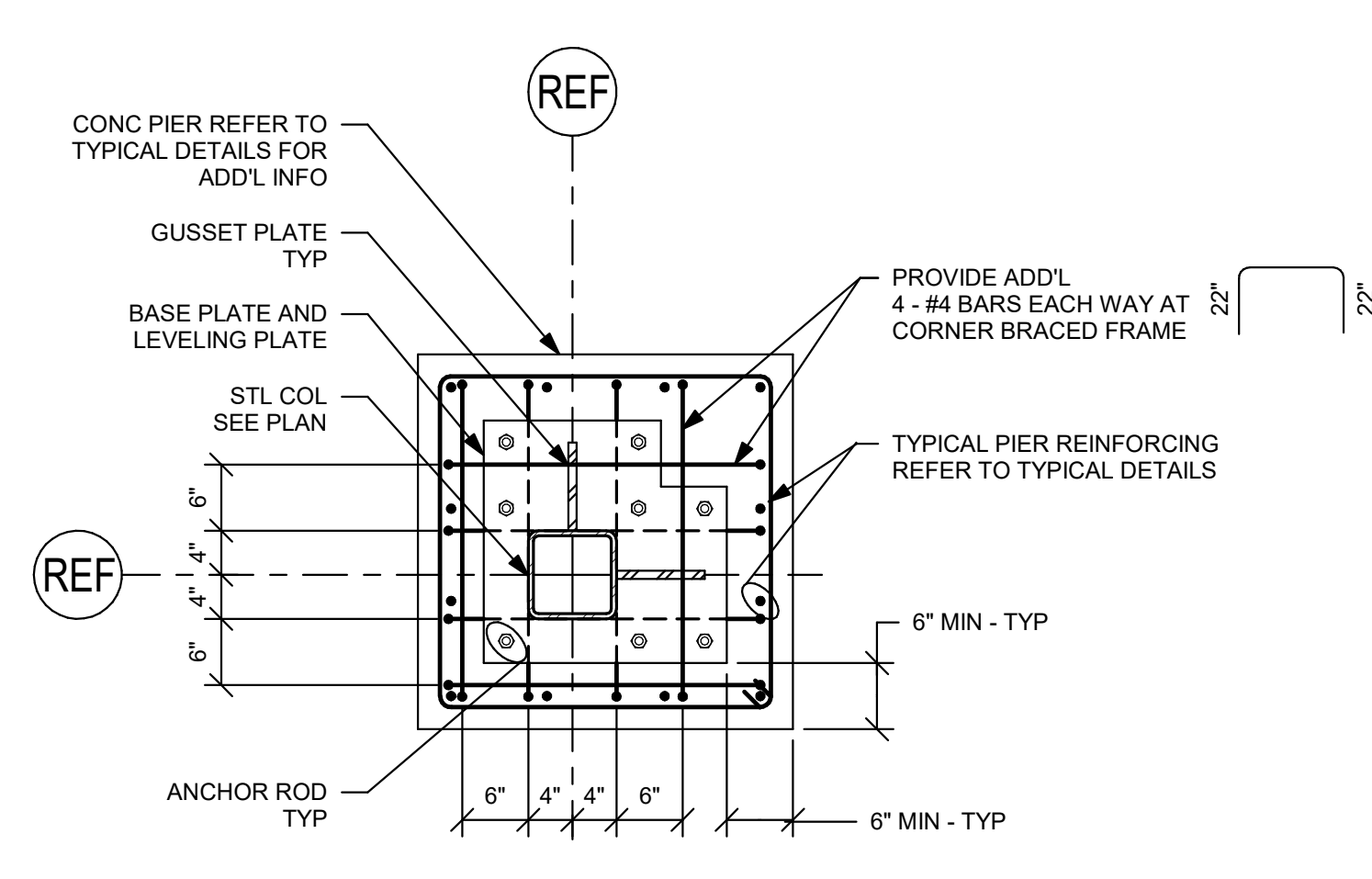
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3/4" = 1' - 0"



10

3/4" = 1' - 0"



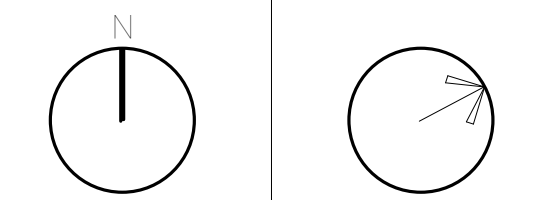
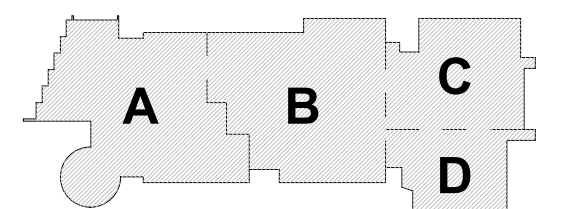
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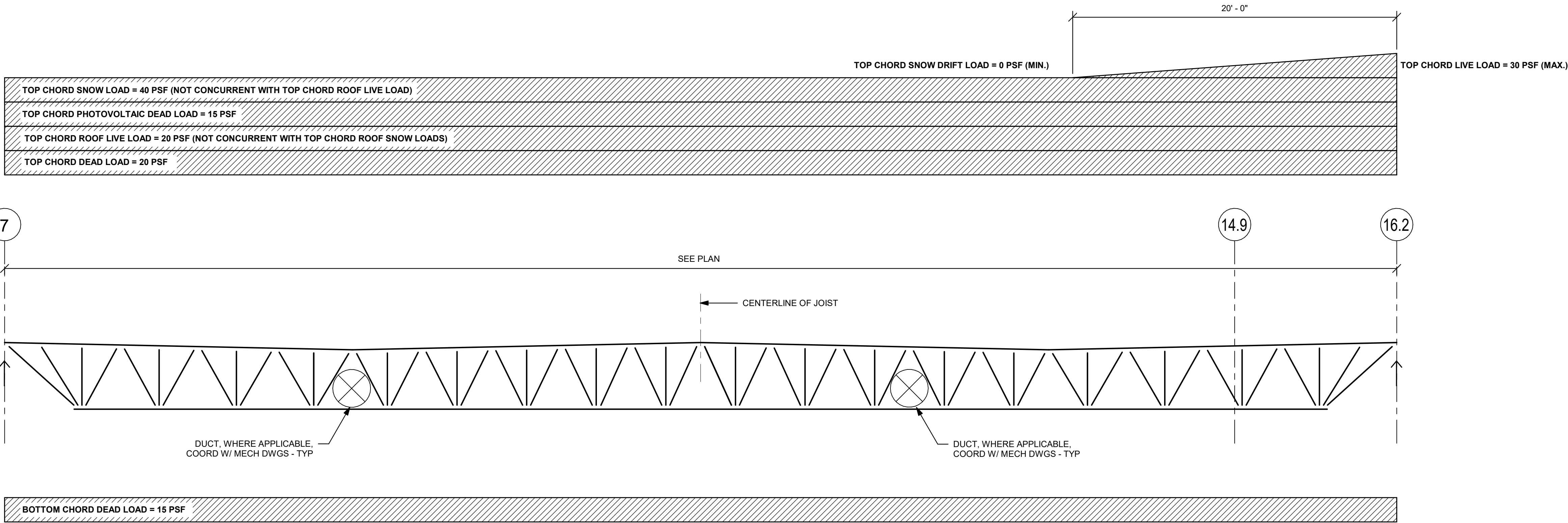


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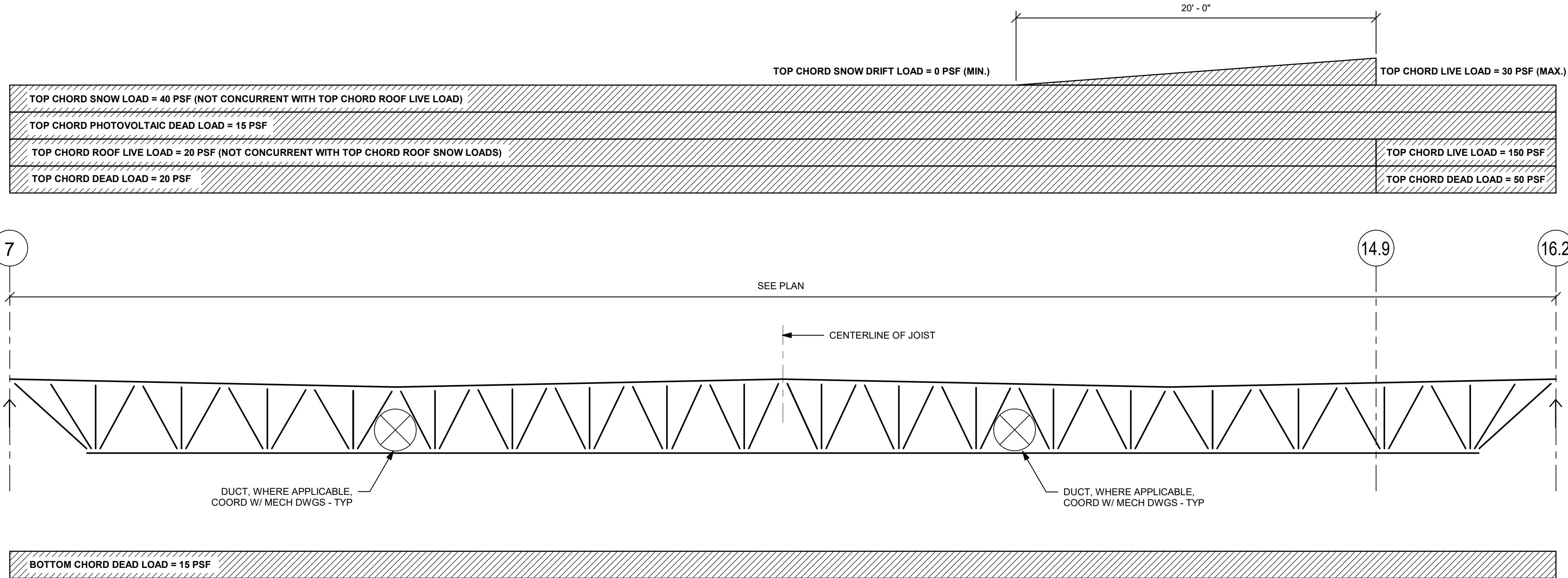






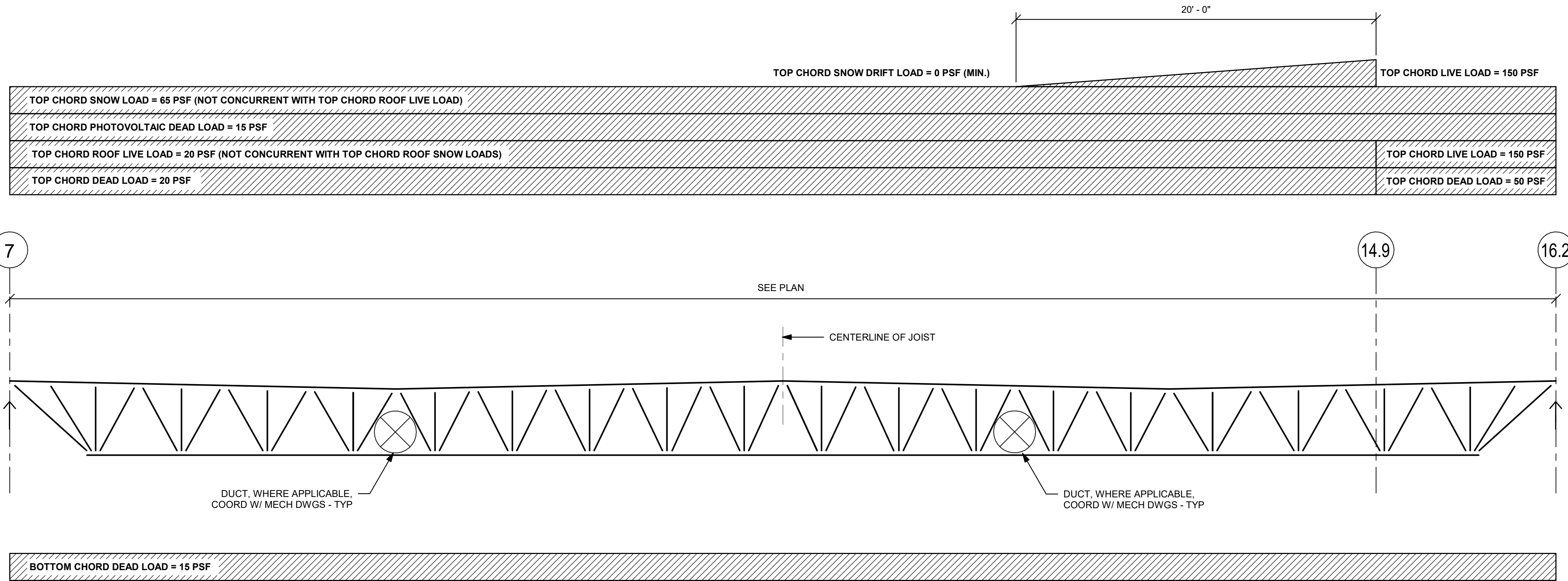
### JOIST PROFILE AND LOAD DIAGRAM FOR 60DLHSP1

NOTE: SELF WEIGHT OF JOIST NOT INCLUDED IN LOADS



### JOIST PROFILE AND LOAD DIAGRAM FOR 60DLHSP2

NOTE: SELF WEIGHT OF JOIST NOT INCLUDED IN LOADS



### JOIST PROFILE AND LOAD DIAGRAM FOR 60DLHSP3

NOTE: SELF WEIGHT OF JOIST NOT INCLUDED IN LOADS

#### JOIST NOTES:

- 1.) JOIST SEAT DEPTH VARIES (8" MIN) AT CENTERLINE OF BEARING. COORDINATE WITH TOP OF STEEL BEAM.
- 2.) IN ADDITION TO THE LOADS SHOWN IN THE DIAGRAMS, DESIGN JOISTS AT THE GYMNASIUM FOR CONCENTRATED LOADS FROM MOTORIZED GYMNASIUM CURTAIN BATTING CAGE AND BASKETBALL BACKSTOP SUPPORT POINTS. REFER TO THE ARCHITECTURAL AND CEILING DRAWINGS. REFER TO MANUFACTURERS INFORMATION FOR LOAD MAGNITUDES AND LOCATIONS.
- 3.) REFER TO SPECIFICATIONS FOR UPLIFT LOAD ON THE JOISTS. DO NOT USE DESIGN DEAD LOAD TO OFFSET UPLIFT LOADS. ONLY SELF WEIGHT OF THE JOIST AND METAL ROOF DECK CAN BE USED TO OFFSET ANY UPLIFT LOADS.
- 4.) DESIGN FOR MAXIMUM LIVE LOADS DEFLECTION OF  $L/360$ .
- 5.) DESIGN ALL JOISTS FOR ADDITIONAL UPWARD LOAD OF 200 POUNDS AT FIRST PANEL POINT AT EACH END OF JOIST.
- 6.) IN ADDITION TO THE SLOPE, PROVIDE CAMBER PER SJI.
- 7.) DESIGN LOADS ARE ALLOWABLE STRESS DESIGN.
- 8.) JOIST SHALL BE TOP CHORD, SINGLE PITCHED UNDER-SLUNG JOIST. JOISTS ARE SYMMETRICAL ABOUT THE MIDSPAN.
- 9.) JOIST WEB CONFIGURATION IS BY JOIST SUPPLIER. WEB CONFIGURATION SHALL BE COMPATIBLE WITH MECHANICAL DUCT LAYOUT AND CATWALK SUPPORTS.
- 10.) JOIST MANUFACTURER SHALL DESIGN AND ACCOUNT FOR JOIST CAMBER AND JOIST DEFLECTION TO LIMIT DIFFERENTIAL DEFLECTION OF ADJACENT JOISTS TO ALLOW FOR PROPER INSTALLATION OF MULTIPLE SPAN ROOF DECK WITHOUT FIELD CUTTING OF DECK. REDUCE CAMBER BY HALF AT JOISTS ADJACENT TOP STRUCTURAL STEEL FRAMING.
- 11.) ALIGN PANEL POINTS OF ALL JOISTS AS SHOWN IN JOIST PROFILES.

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## NORTHEAST METRO TECH

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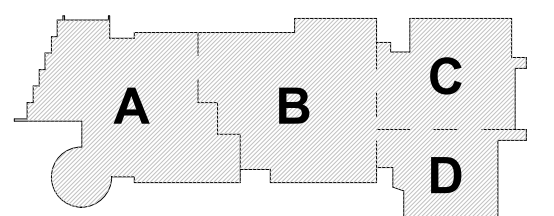
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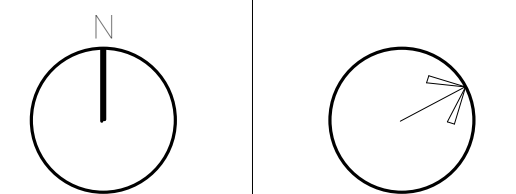
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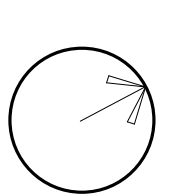


#### KEY PLAN

PROJECT NORTH



MAGNETIC NORTH



## JOIST LOADING DIAGRAMS

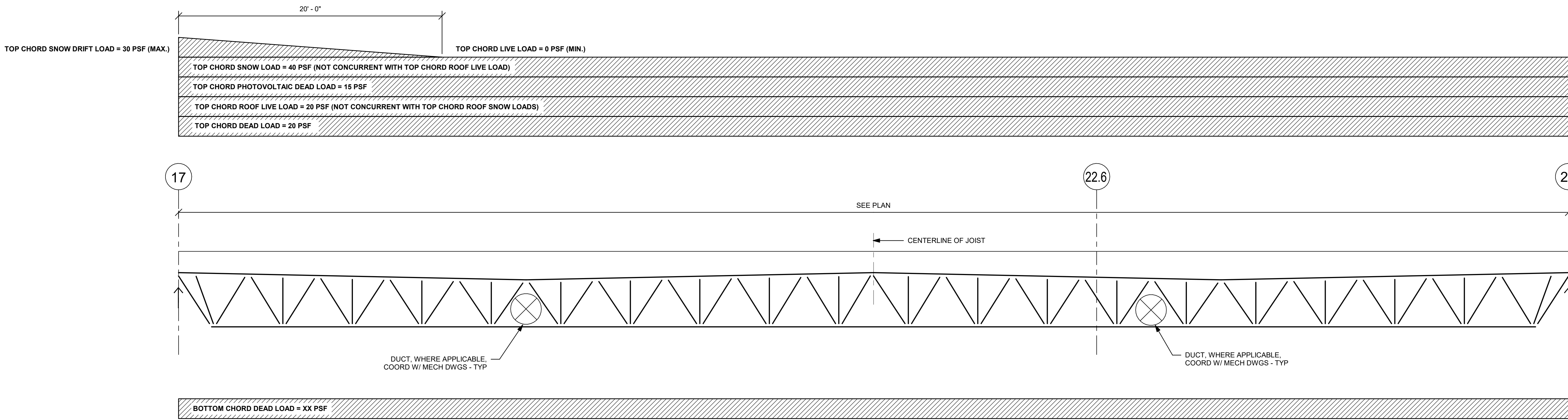
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Job No.: 20202  
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S5-0-1



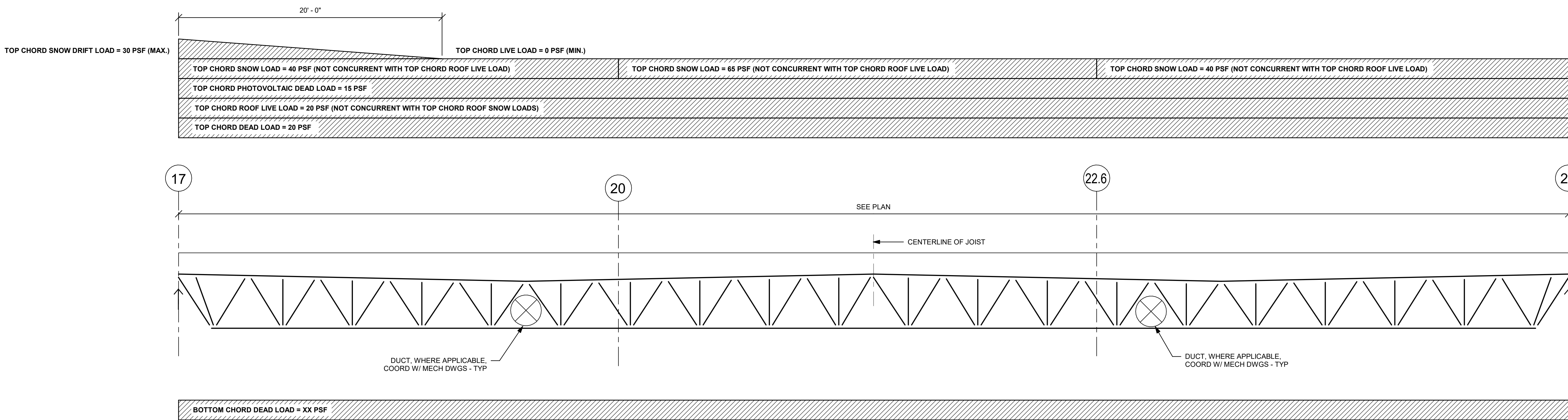
JOIST NOTES:

- 1.) JOIST SEAT DEPTH VARIES (5" MIN) AT CENTERLINE OF BEARING. COORDINATE WITH TOP OF STEEL BEAM.
- 2.) IN ADDITION TO THE LOADS SHOWN IN THE DIAGRAMS, DESIGN JOISTS AT THE GYMNASIUM FOR CONCENTRATED LOADS FROM MOTORIZED GYMNASIUM CURTAIN BATTING CAGE AND BASKETBALL BACKSTOP SUPPORT POINTS. REFER TO THE ARCHITECTURAL AND CEILING DRAWINGS. REFER TO MANUFACTURERS INFORMATION FOR LOAD MAGNITUDES AND LOCATIONS.
- 3.) REFER TO SPECIFICATIONS FOR UPLIFT LOAD ON THE JOISTS. DO NOT USE DESIGN DEAD LOAD TO OFFSET UPLIFT LOADS. ONLY SELF WEIGHT OF THE JOIST AND METAL ROOF DECK CAN BE USED TO OFFSET ANY UPLIFT LOADS.
- 4.) DESIGN FOR MAXIMUM LIVE LOADS DEFLECTION OF L / 360.
- 5.) DESIGN ALL JOISTS FOR ADDITIONAL UPWARD LOAD OF 200 POUNDS AT FIRST PANEL POINT AT EACH END OF JOIST.
- 6.) IN ADDITION TO THE SLOPE, PROVIDE CAMBER PER SJI.
- 7.) DESIGN LOADS ARE ALLOWABLE STRESS DESIGN.
- 8.) JOIST SHALL BE TOP CHORD, SINGLE PITCHED UNDER-SLING JOIST. JOISTS ARE SYMMETRICAL ABOUT THE MIDSPAN.
- 9.) JOIST WEB CONFIGURATION IS BY JOIST SUPPLIER. WEB CONFIGURATION SHALL BE COMPATIBLE WITH MECHANICAL DUCT LAYOUT AND CATWALK SUPPORTS.
- 10.) JOIST MANUFACTURER SHALL DESIGN AND ACCOUNT FOR JOIST CAMBER AND JOIST DEFLECTION TO LIMIT DIFFERENTIAL DEFLECTION OF ADJACENT JOISTS TO ALLOW FOR PROPER INSTALLATION OF MULTIPLE SPAN ROOF DECK WITHOUT FIELD CUTTING OF DECK. REDUCE CAMBER BY HALF AT JOISTS ADJACENT TOP STRUCTURAL STEEL FRAMING.
- 11.) ALIGN PANEL POINTS OF ALL JOISTS AS SHOWN IN JOIST PROFILES.



JOIST PROFILE AND LOAD DIAGRAM FOR 60DLHSP4

NOTE: SELF WEIGHT OF JOIST IS NOT INCLUDED IN LOADS



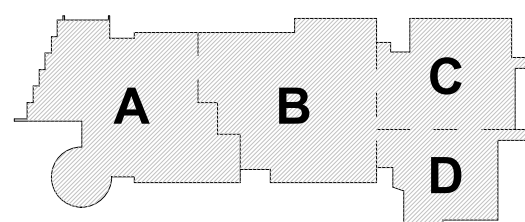
JOIST PROFILE AND LOAD DIAGRAM FOR 60DLHSP5

NOTE: SELF WEIGHT OF JOIST IS NOT INCLUDED IN LOADS

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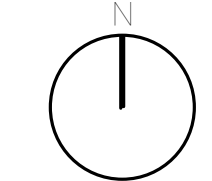
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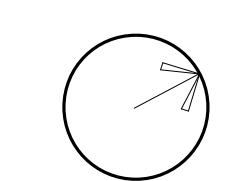


KEY PLAN

PROJECT NORTH



MAGNETIC NORTH



JOIST LOADING  
DIAGRAMS

Scale: As indicated

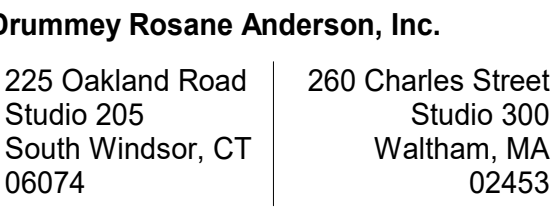
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S5-0-2





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WOOD TRUSS NOTES:


- 1) TRUSS CONFIGURATIONS ARE DIAGRAMMATIC AND NOT TO SCALE. SEE ARCHITECTURAL DRAWINGS FOR ALL LENGTHS AND CONDITIONS.
- 2) REVIEW MECHANICAL ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL EQUIPMENT LOADS.
- 3) EXCEPT AS SHOWN OTHERWISE, DESIGN TRUSSES FOR THE FOLLOWING MINIMUM UNIFORM DESIGN LOADS:  

TRUSS TYPE 1

TOP CHORD DEAD LOAD                 10PSF  
BOTTOM CHORD DEAD LOAD             20PSF  
SNOW LOAD                               30PSF  
(SEE GENERAL NOTES ON SO-1 FOR WIND AND SEISMIC DESIGN CRITERIA)
- 4) DESIGN AND PROVIDE ALL TEMPORARY ERECTION RESTRAINTS / BRACING.
- 5) DESIGN AND PROVIDE A/L PERMANENT RESTRANT / BRACING FOR MEMBERS AS REQUIRED FOR A PERMANENT INSTALLATION.
- 6) OSB STRUCTURAL SHEATHING PROVIDES PERMANENT BRACING FOR THE TOP CHORD WHERE SHOWN.
- 7) PROVIDE CONTINUOUS 2x4 @ 2'-0" ON CENTER (MAX.) FOR LATERAL BRACING OF TRUSS BOTTOM CHORD.
- 8) IN ADDITION TO WOOD BLOKING SHOWN ON PLANS, PROVIDE 2X BLOKING BETWEEN TOP CHORD OF TRUSSES AT EACH PANEL POINT. 2X BLOKING SIZE TO MATCH TOP CHORD OF TRUSS.
- 9) WHERE TRUSSES ARE TO BE SUPPLIED IN MORE THAN ONE PIECE, OR HINGED, DESIGN AND PROVIDE ALL NECESSARY BRACING CONNECTIONS AND ACCESSORIES.
- 10) REFER TO GENERAL NOTES ON DRAWING SO-1 FOR ADDITIONAL REQUIREMENTS.
- 11) DESIGN AND PROVIDE UPLIFT CONNECTIONS. CONNECTORS SHOWN ARE MINIMUM REQUIREMENTS.

AT PANEL EDGE BOUNDARIES	10d COMMON NAILS AT 6" OC
AT OTHER PANEL EDGES	10d COMMON NAILS AT 6" OC
AT INTERMEDIATE PANEL SUPPORTS	10d COMMON NAILS AT 10" OC

FRAMING NOTES:

- 1.) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0.1, S0-0.2, S0-0.3, S0-0.4, S0-0.5, S0-0.6, S0-0.7 AND S0-0.8.
- 2.)  INDICATES SPAN DIRECTION OF 5/8" ROOF SHEATHING. PROVIDE APA RATED STRUCTURAL SHEATHINGS EXPOSE 1 PLYWOOD OR OSB
- 3.) T1 ET. - INDICATES A PRE-FABRICATED WOOD TRUSS. SEE THIS DRAWING FOR TRUSS CONFIGURATION AND LOADING INFORMATION. MAXIMUM TRUSS SPACING EQUALS 2' - 0" ON CENTER.
- 4.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.

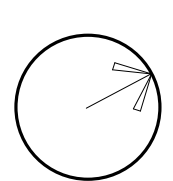
FOUNDATION NOTES:

- 1) REFER TO GRADING DRAWINGS FOR PLAN AND GRADE ELEVATIONS. THE STRUCTURAL DRAWINGS USE A DATUM OF 100'-0" AT THE MAIN FLOOR FINISH CORNER OF THE 163.90 SEAM SEALED, AS SHOWN ON THE SITE AND CIVIL DRAWINGS.
- 2) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-100-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
- 3) F.S.C. INDICATES A FOOTING TYPE, SIZE OF FOOTING AND REINFORCEMENT SEE TYPICAL DETAILS.
- 4) TOP OF FOOTING ELEVATION TO BE 3" MINIMUM BELOW LOWEST ADJACENT FINISHED GRADE AT EXTERIOR CONDITIONS AND 2" BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS. ALL FOOTING ELEVATIONS TO BE UNDERGOSS AS THIS (XX'-XX") ON PLANS. CONTRACTOR TO COORDINATE AND VERIFY TOP OF FOOTING ELEVATIONS WITH THE UNDERGOSS DRAWING. PLUMBING SUB-CONTRACTOR'S FIELD LAYOUT.
- 5) ALL FOOTING ELEVATIONS SHOWN ON PLAN ARE SHOWN ONLY TO ASSIST IN COORDINATION. ALL FOOTING ELEVATIONS MUST BE COORDINATED WITH STRUCTURAL DRAWINGS AND TYPICAL DETAILS. ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- 6) SF INDICATES A STEPPED FOOTING REFER TO DETAIL 1 ON DRAWING S0-0-2.
- 7) FOR UNDER SLAB DRAINAGE AND WALL DRAINS, COORDINATE WITH ARCHITECTURAL, STRUCTURAL, CIVIL, AND PLUMBING DRAWINGS.
- 8) INDICATES A DERESSED SLAB ON GRADE. REFER TO DETAILS 6 AND 7 ON DRAWING S0-0-2 COORDINATE ALL SLAB DEPRESSIONS WITH REQUIREMENTS ON ARCHITECTURAL DRAWINGS.
- 9) FOR TYPICAL EXTERIOR DOOR DETAIL REFER TO DETAIL 6 ON DRAWING S0-0-3 AND RELEVANT SECTIONS.
- 10) INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 1 ON DRAWING S0-0-3 FOR CONNECTIONS TO DETAIL 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NONSTRUCTURAL CONNECTIONS. REFER TO TYPICAL DETAIL 1 FOR CONNECTIONS TO SHEAR WALLS TO THE STRUCTURE.
- 11) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- 12) INDICATES UNDERGROUND UTILITY LINES PLUMBING THROUGH CONCRETE FOUNDATION WALL TYPICAL. COORDINATE FOOTING ELEVATION WITH PIPE INVERTS AND TYPICAL STRUCTURAL DETAILS.



PROJECT NORTH

MAGNETIC NORTH



## Scale: As indicated

Job No. 30302

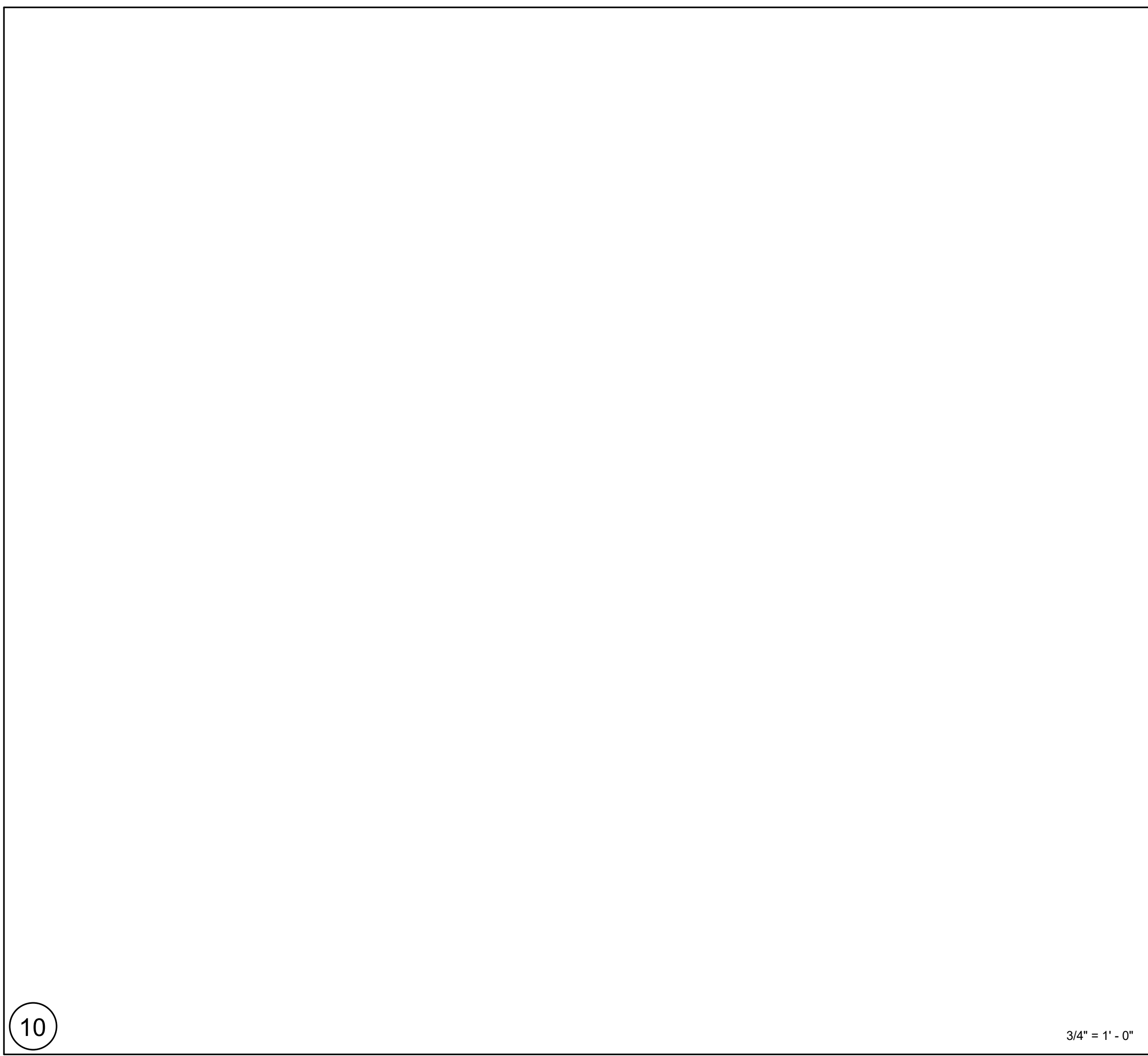
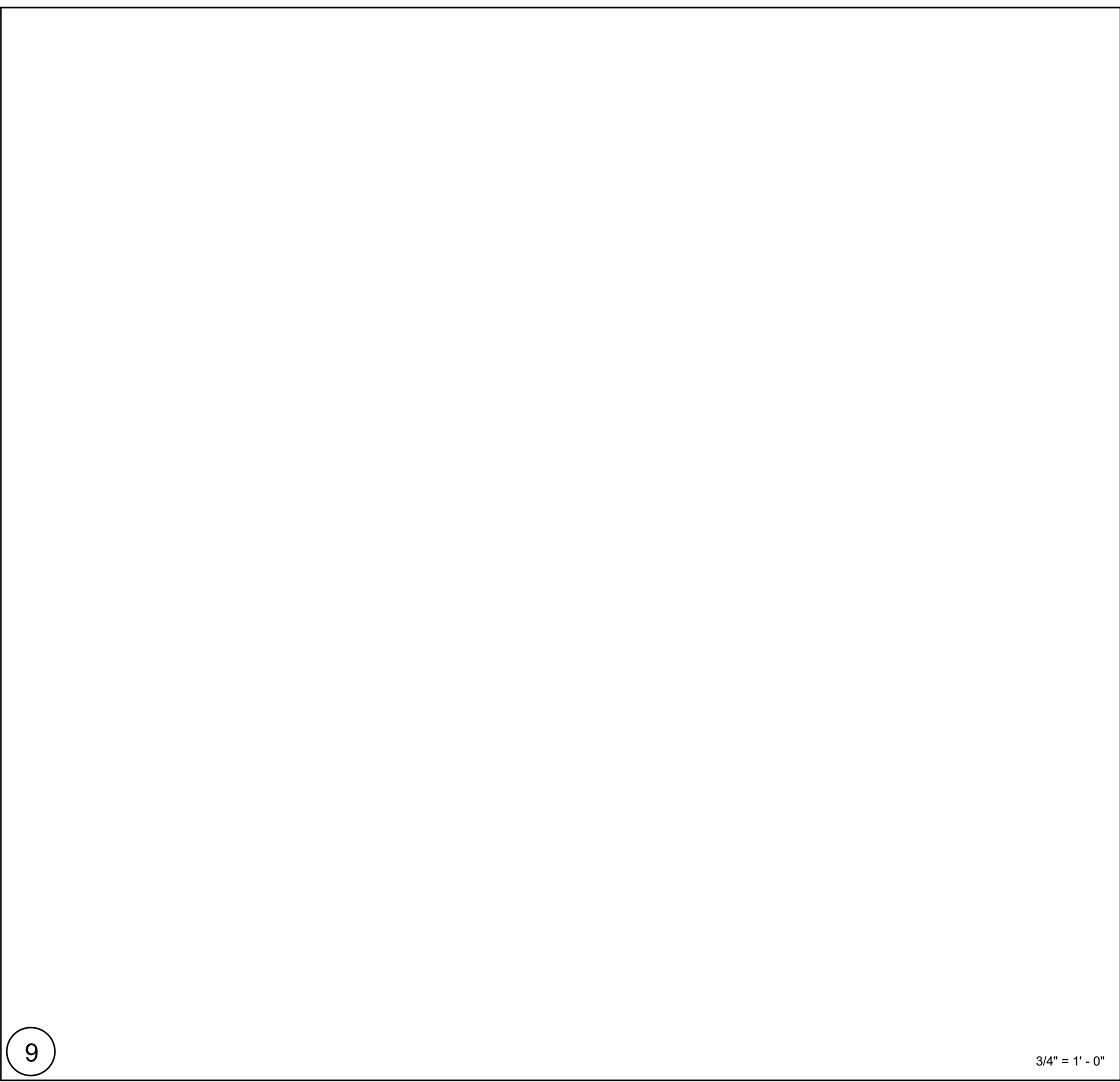
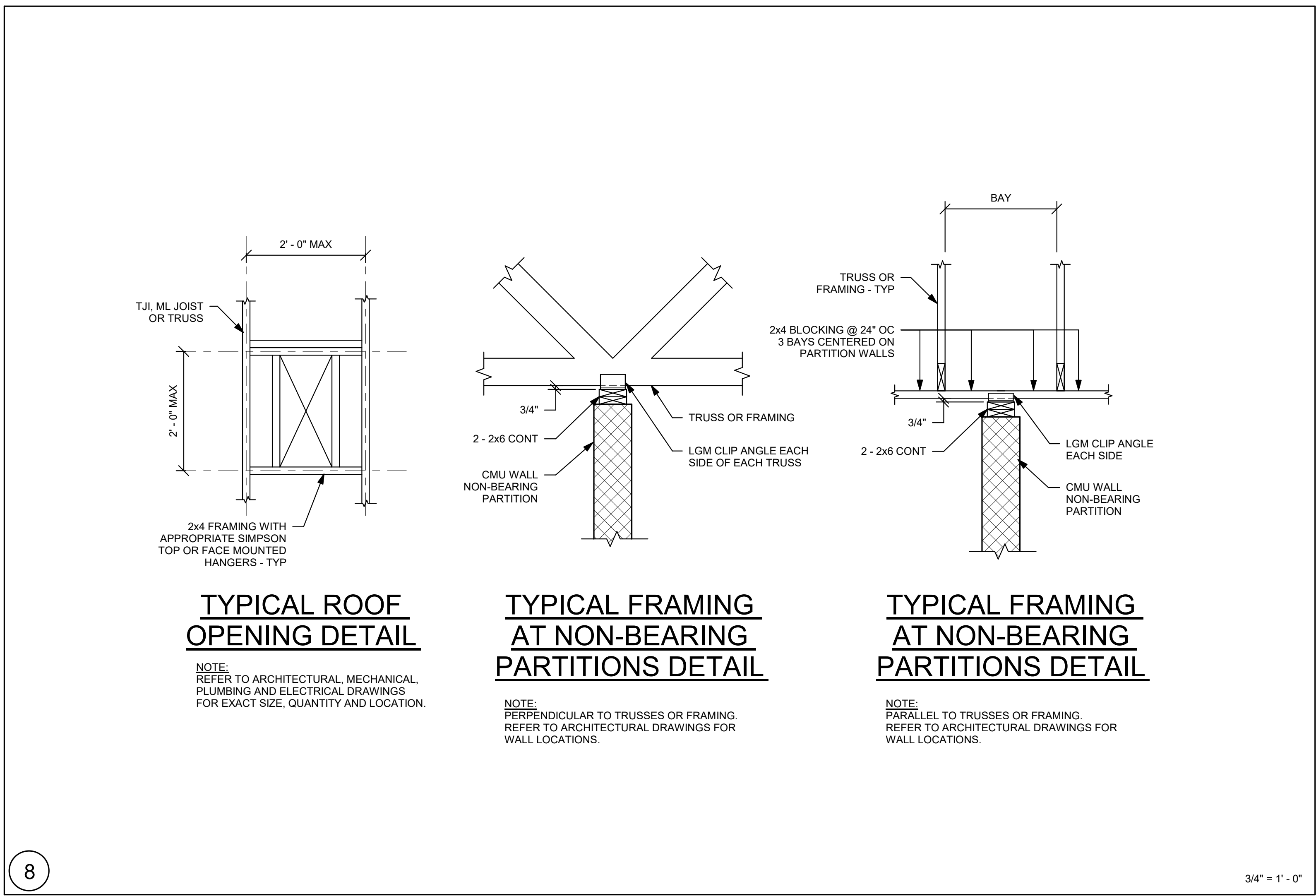
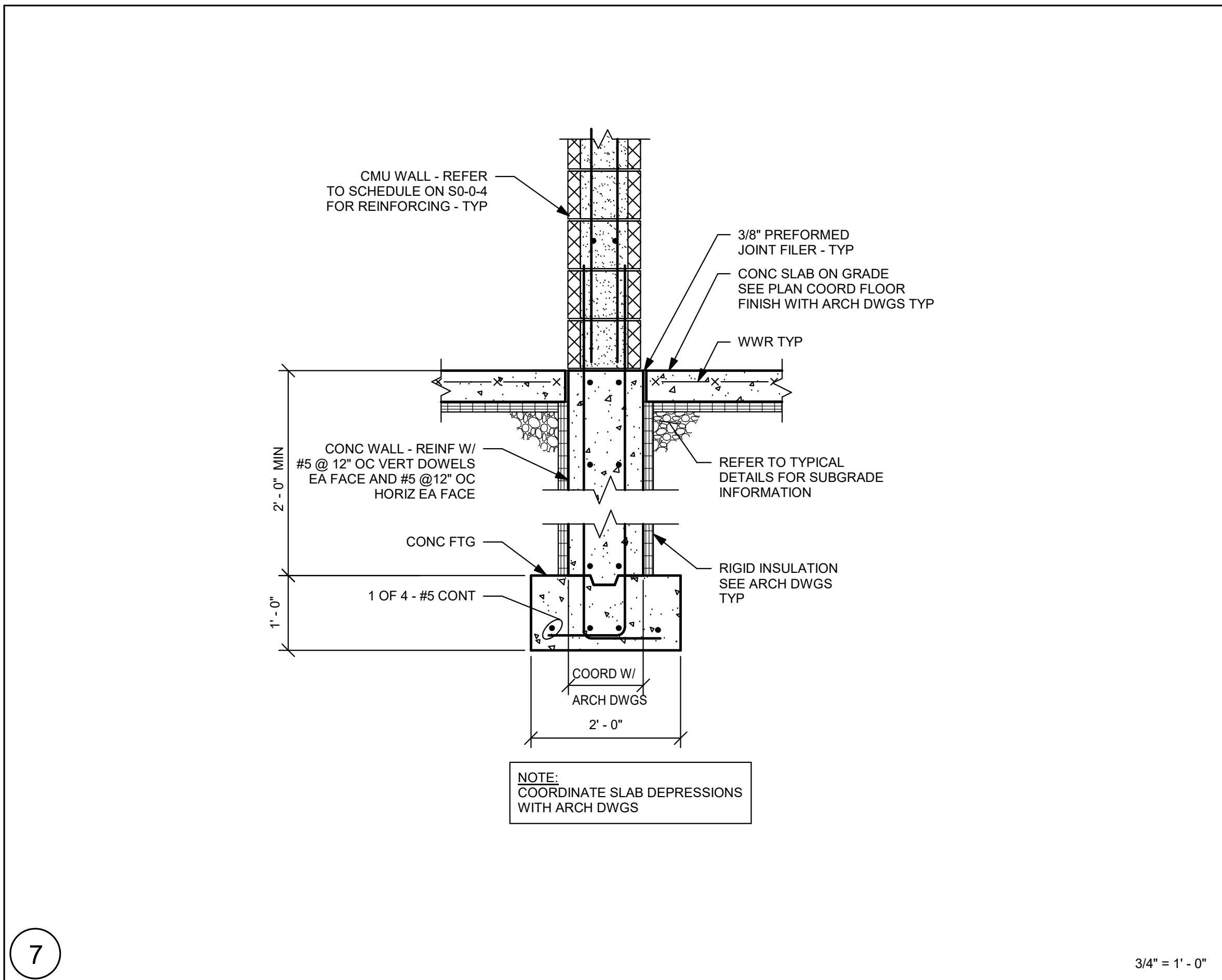
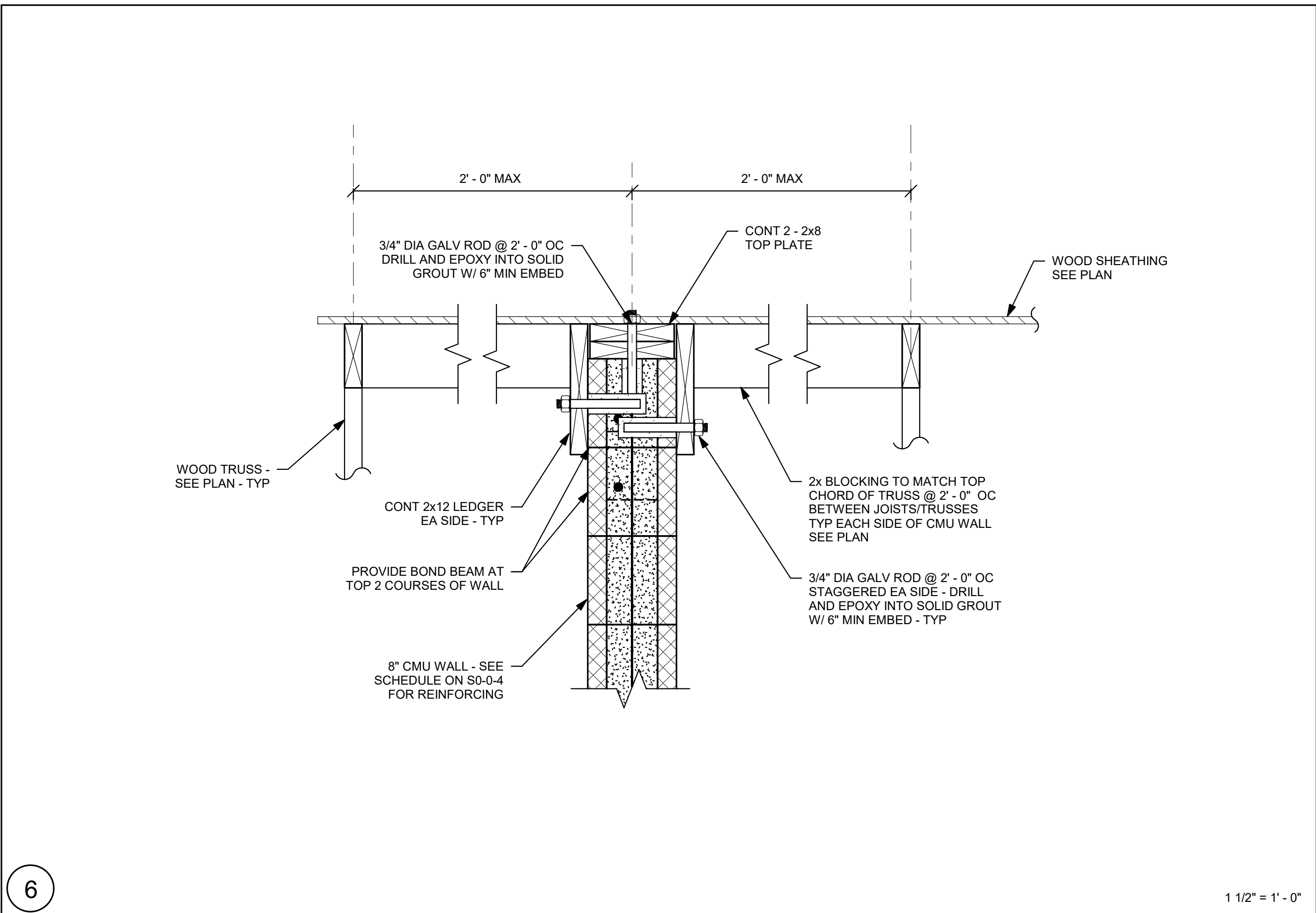
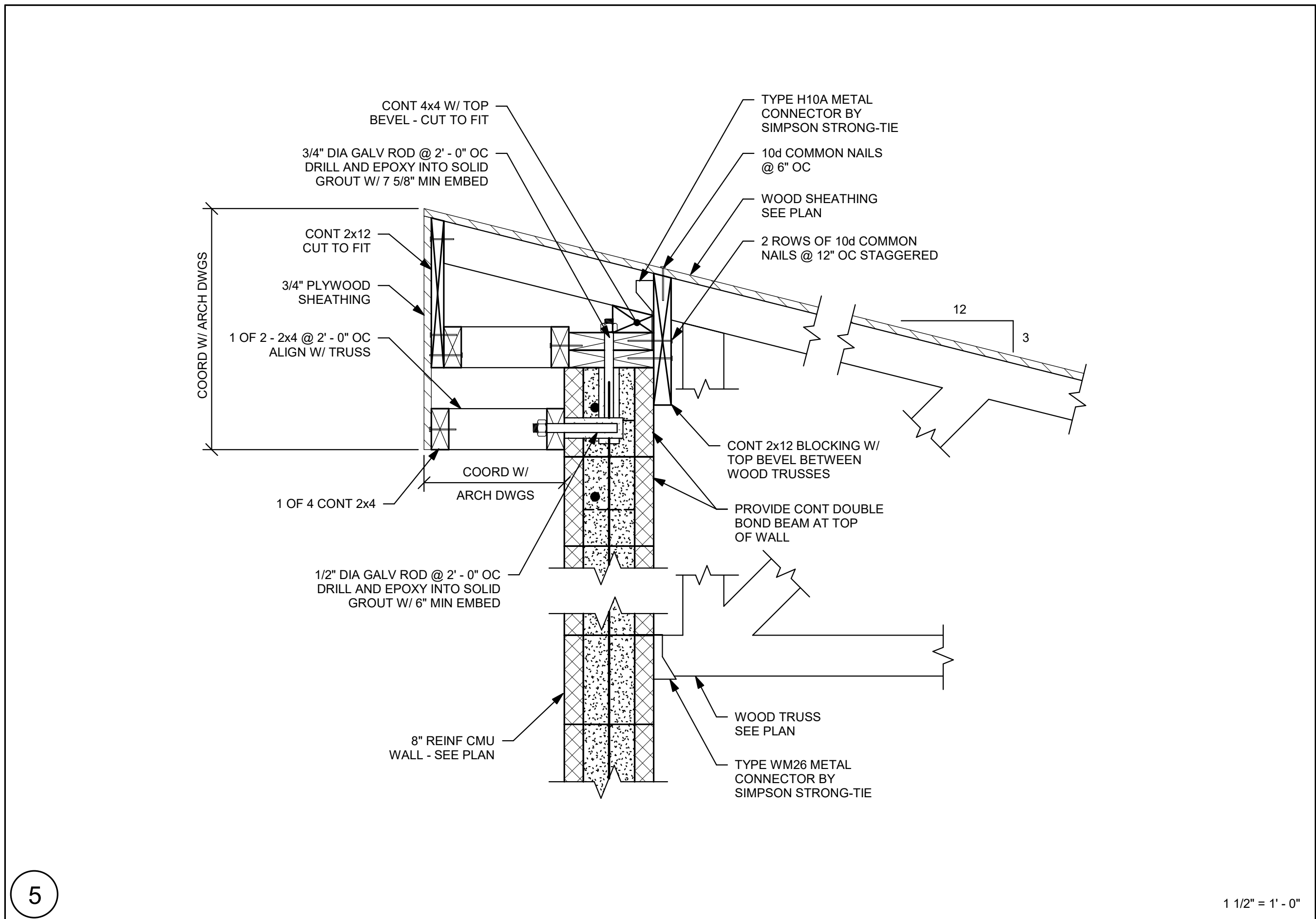
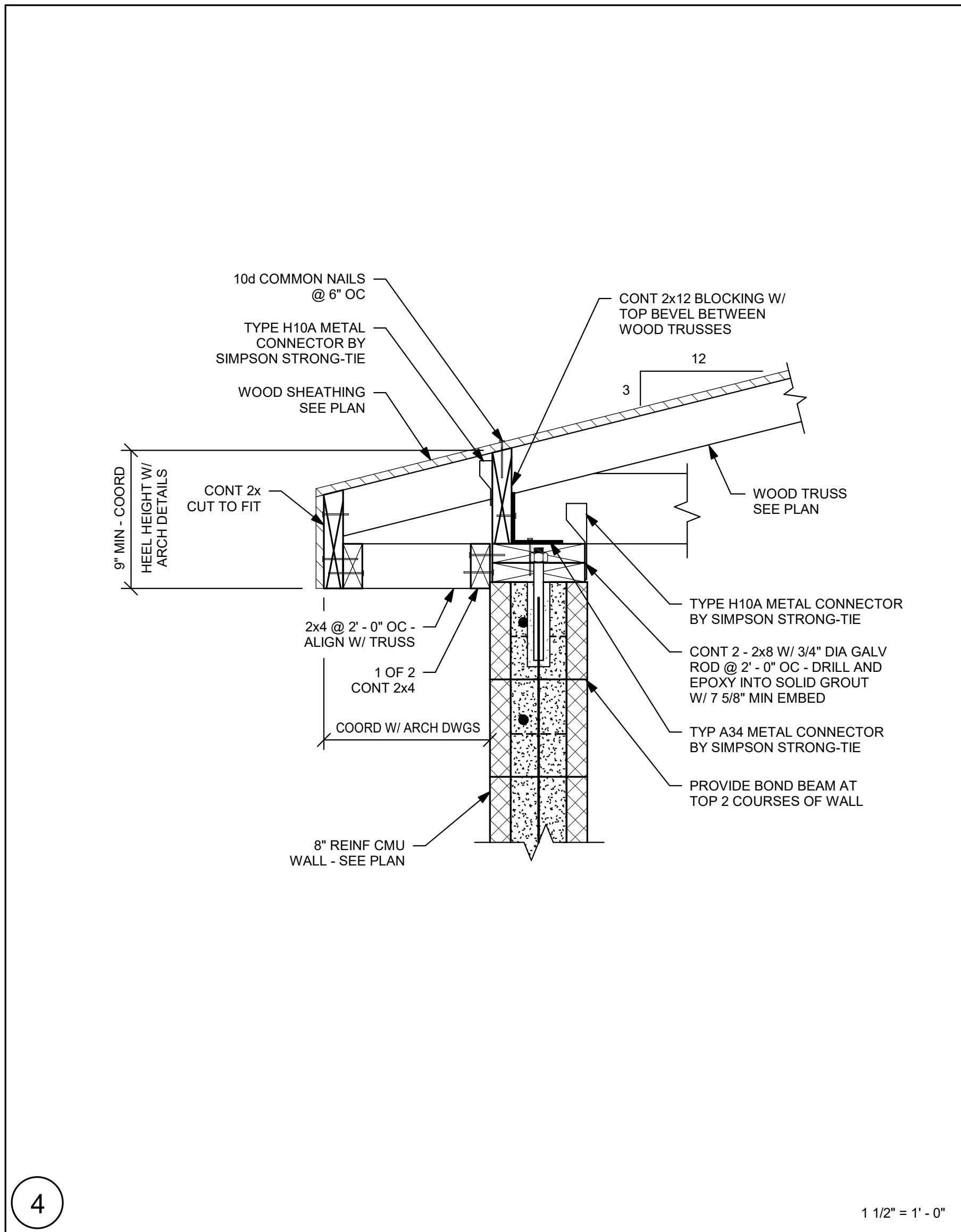
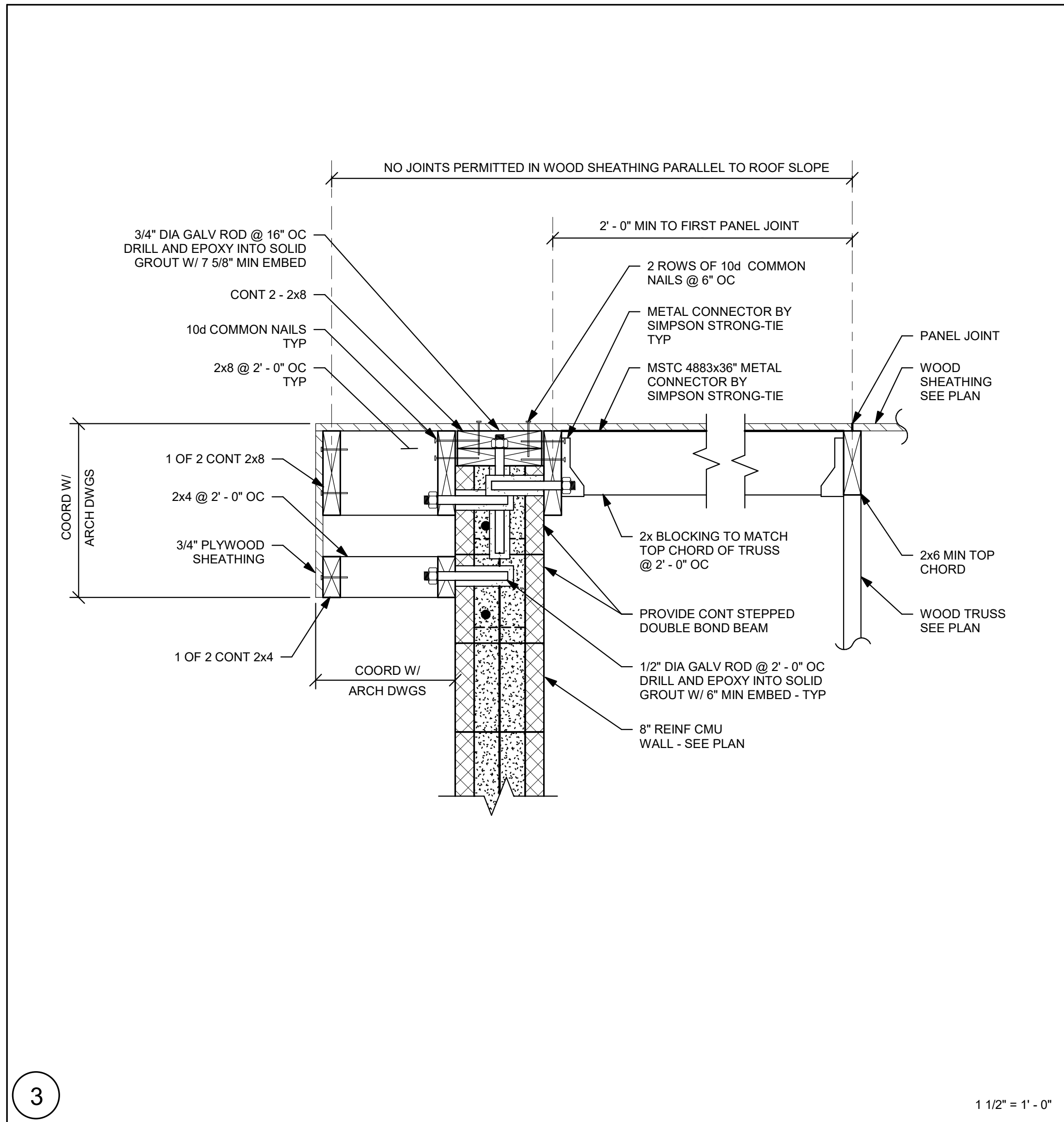
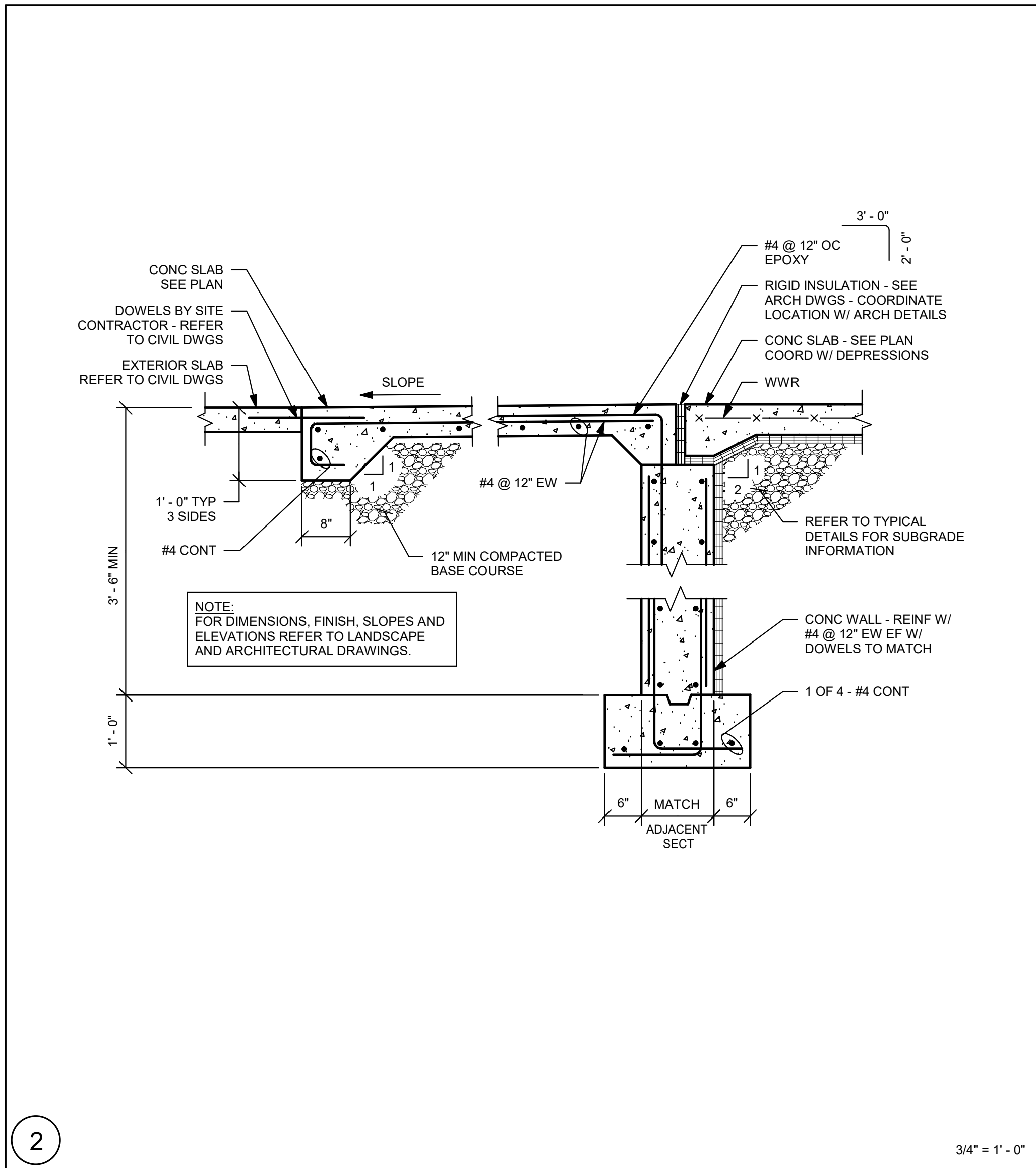
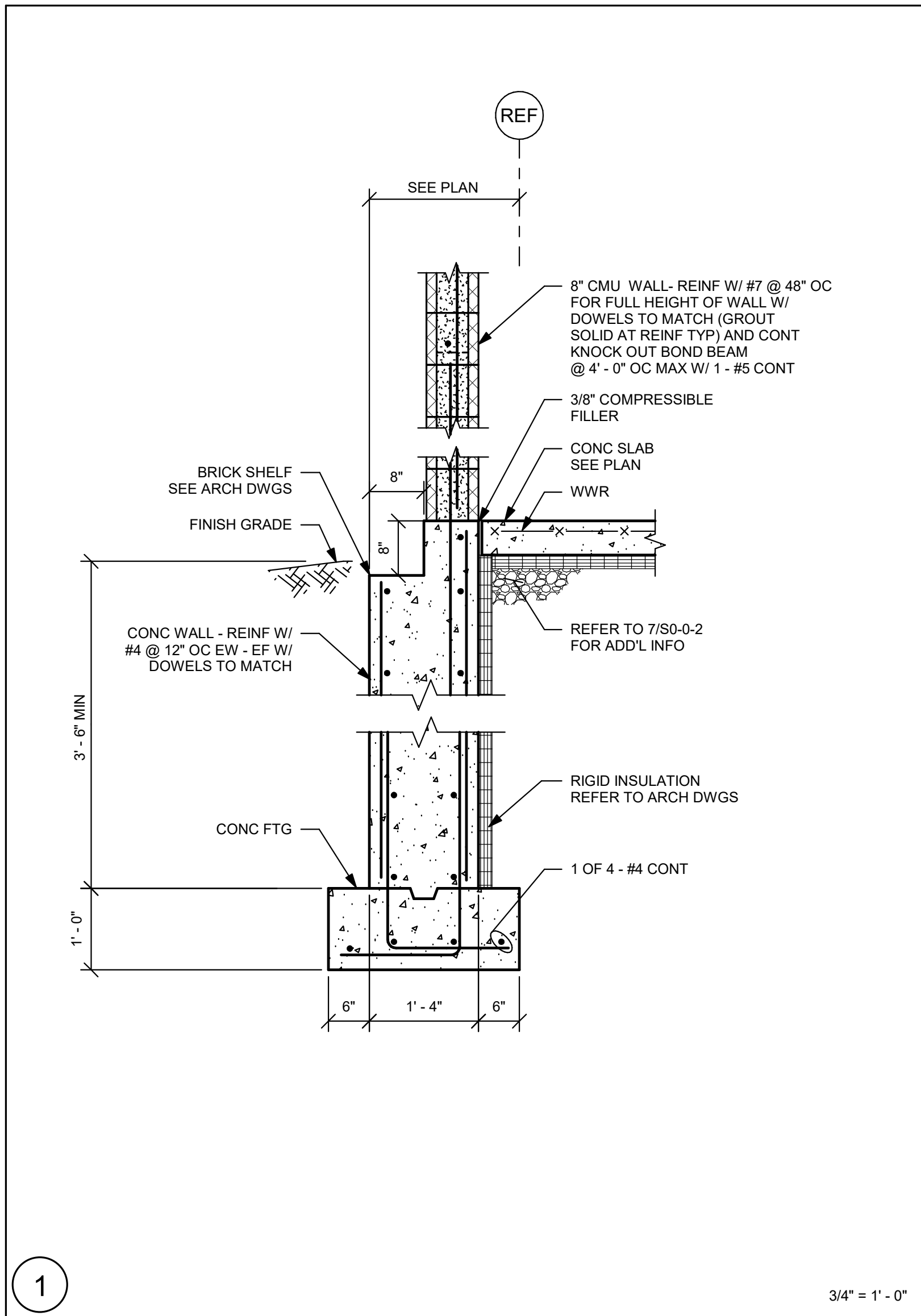
**Abstract**

Drawn By: EDC

**SC-1-1**







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MSBA 60% CD Submission

01/13/2023

KEY PLAN

PROJECT NORTH

MAGNETIC NORTH

**CONCESSION BUILDING SECTIONS**

Scale: As indicated

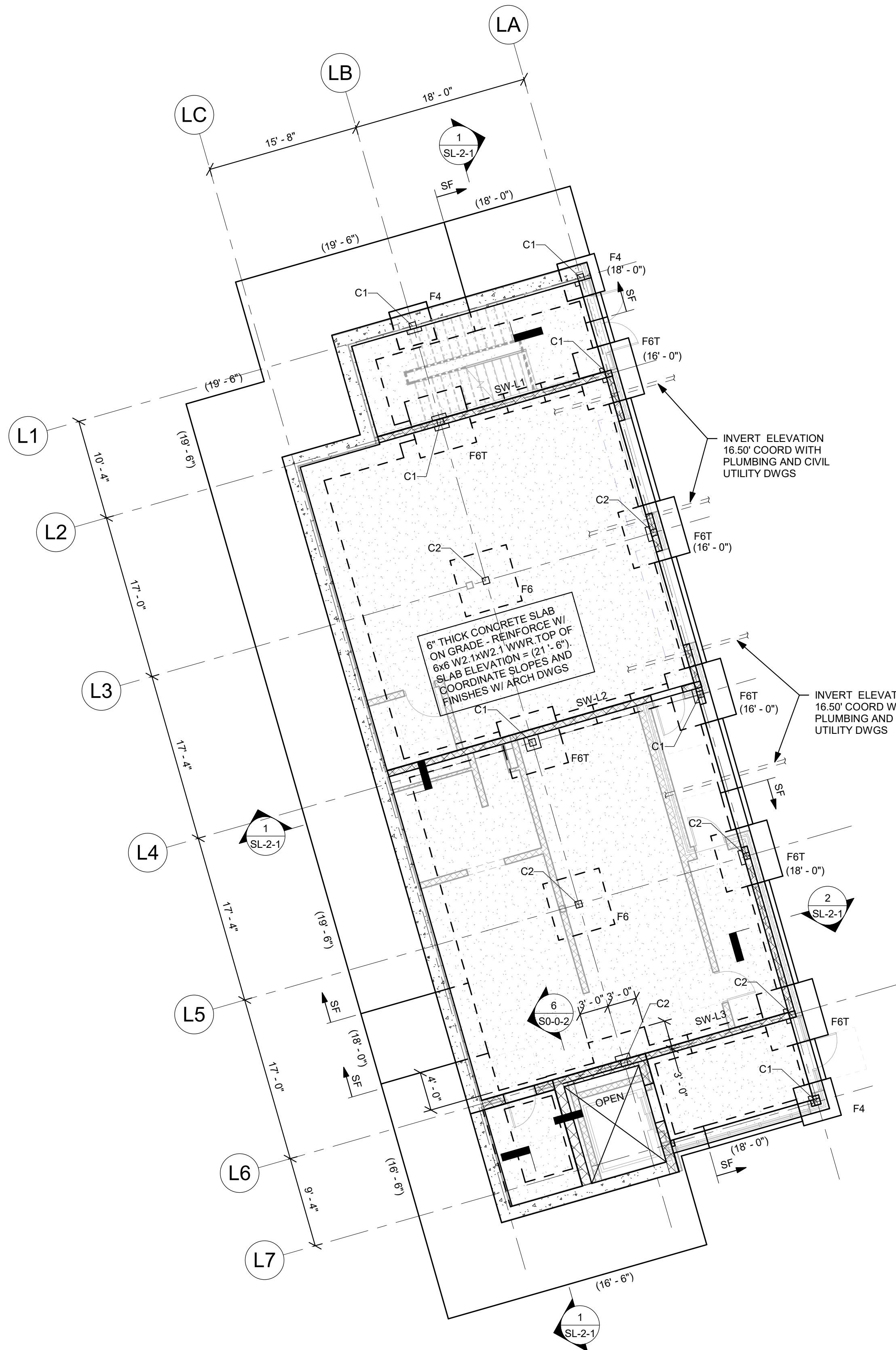
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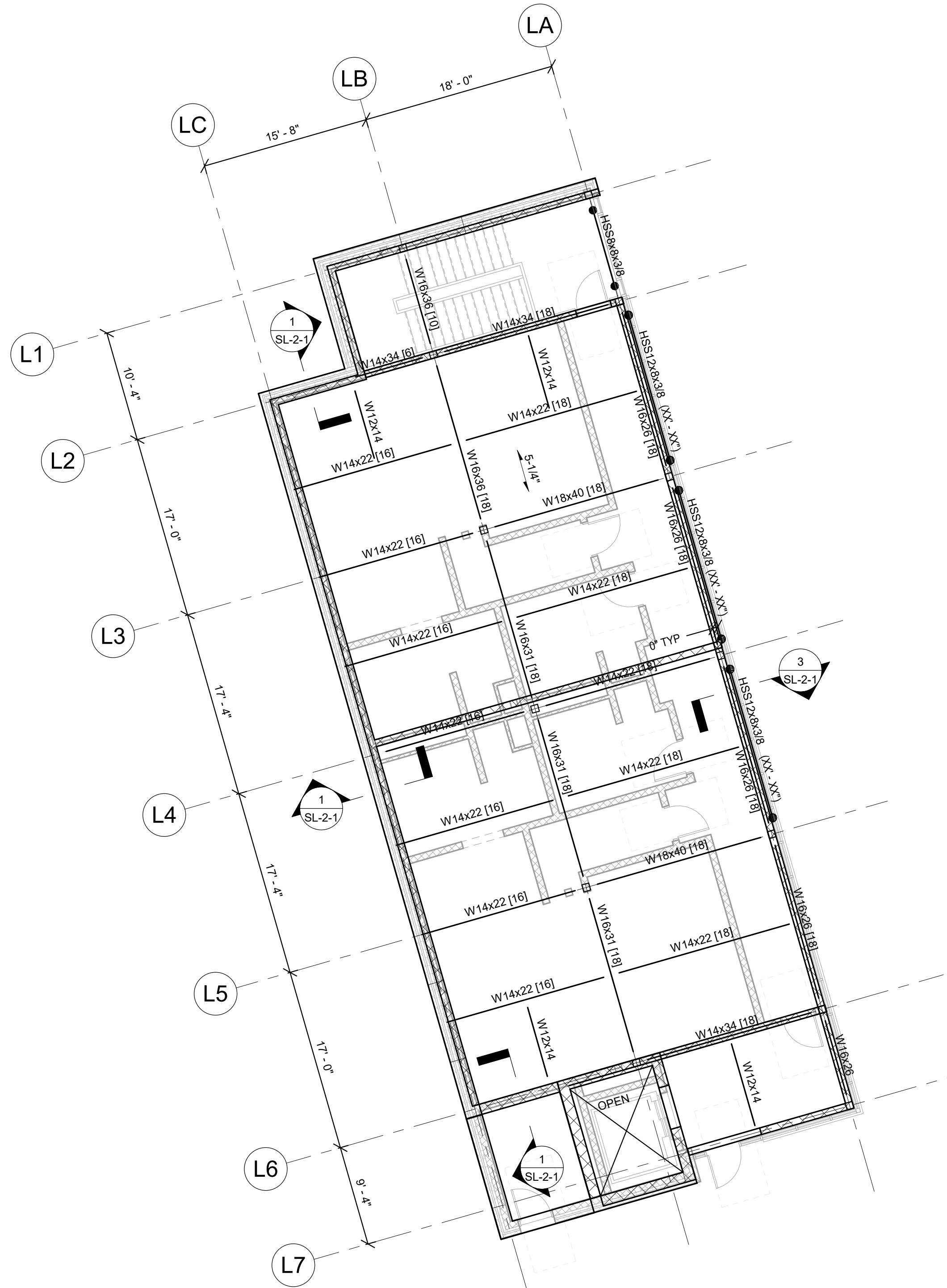
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**SC-2-1**

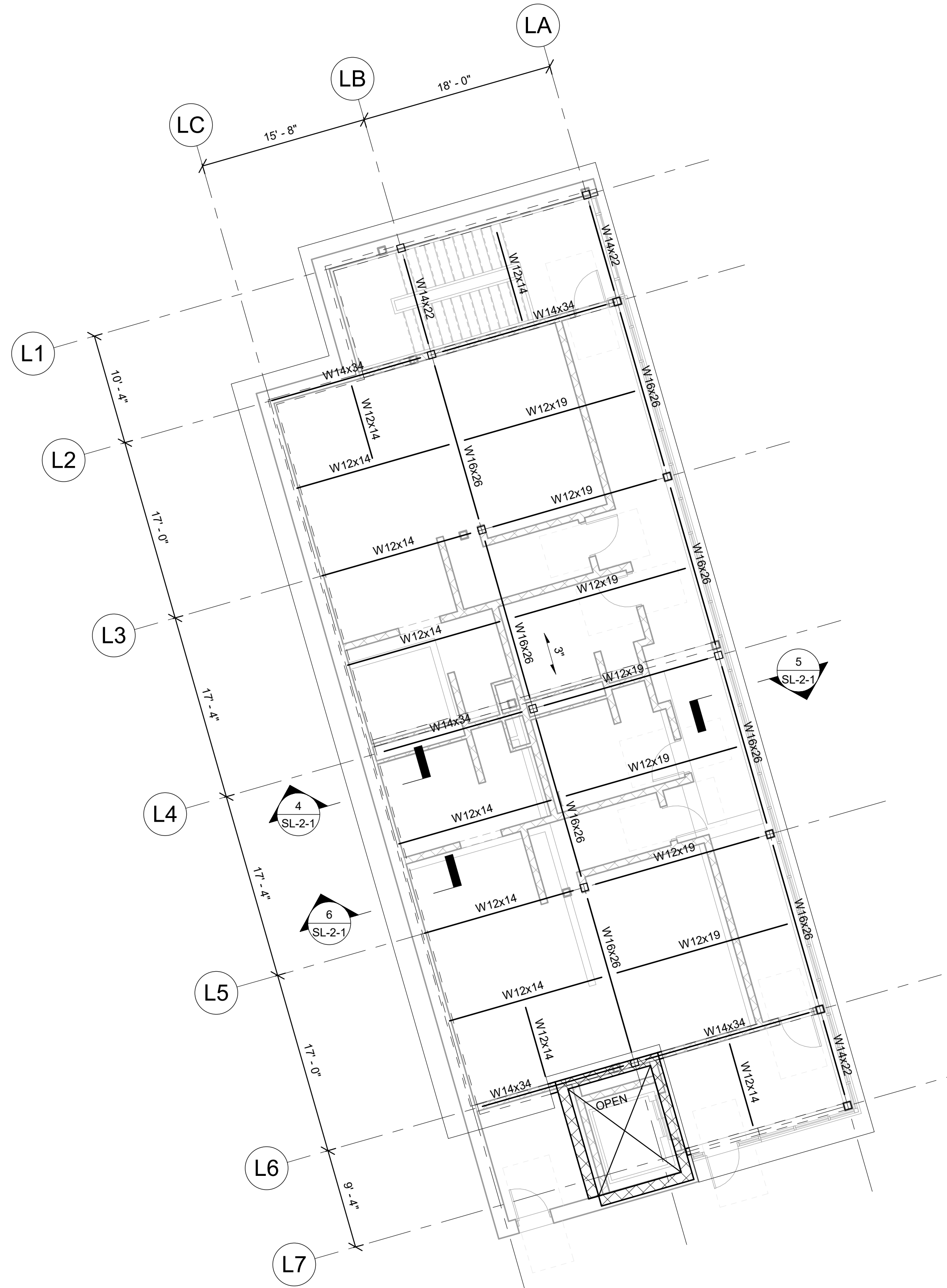




LOCKER BUILDING GROUND FLOOR PLAN



LOCKER BUILDING FIRST FLOOR PLAN



LOCKER BUILDING ROOF PLAN

FOUNDATION NOTES:

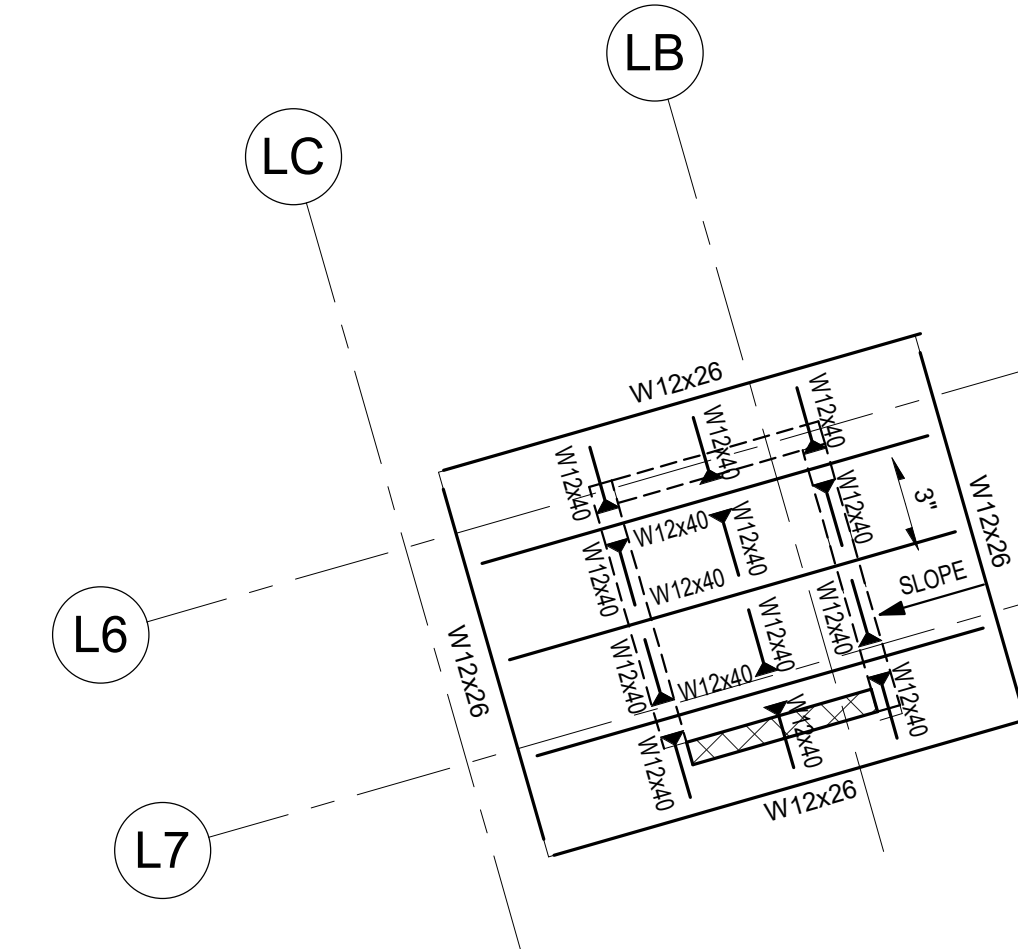
- REFER TO GRADING DRAWINGS FOR PLAN AND GRADE ELEVATIONS. THE STRUCTURAL DRAWINGS USES A DATUM OF 100'-0" AT THE MAIN FLOOR, WHICH CORRESPONDS TO 163.50' MEAN SEA LEVEL, AS SHOWN ON THE SITE AND CIVIL DRAWINGS.
- FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
- F3 ETC... INDICATES A FOOTING TYPE, FOR SIZE OF FOOTING AND REINFORCEMENT SEE SCHEDULE ON THIS DRAWING.
- TOP OF FOOTING ELEVATION TO BE 3'-6" MINIMUM BELOW LOWEST ADJACENT FINISHED GRADE AT EXTERIOR CONDITIONS AND 2'-0" BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS. ALL OTHER TOP OF FOOTING ELEVATIONS ARE DENOTED AS THUS (XX'-XX") ON PLANS. CONTRACTOR TO COORDINATE AND VERIFY ALL TOP OF FOOTING ELEVATIONS WITH UNDERGROUND PLUMBING SUB-CONTRACTOR'S FIELD LAYOUT.
- ALL FOOTING ELEVATIONS NOTED ON PLAN ARE SHOWN ONLY TO ASSIST IN COORDINATION. ALL FOOTING ELEVATIONS MUST BE COORDINATED WITH STRUCTURAL REQUIREMENTS, TYPICAL DETAILS, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- ALL FOOTINGS TO BE CENTERED UNDER COLUMNS UNLESS NOTED OTHERWISE.
- SE INDICATES A STEPPED FOOTING REFER TO DETAIL 1 ON DRAWING S0-0-2.
- BOTTOM OF BASE PLATE ELEVATION TO BE 1'-5" MINIMUM BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS, AND 0'-11" BELOW TOP OF CONCRETE SLAB AT EXTERIOR CONDITIONS. UNLESS NOTED OTHERWISE AS (XX'-XX") REFER TO ARCHITECTURAL DRAWINGS FOR BRICK SHELF ELEVATIONS.
- FOR UNDER SLAB DRAINAGE AND WALL DRAINS, COORDINATE WITH ARCHITECTURAL, STRUCTURAL, CIVIL, AND PLUMBING DRAWINGS.
- INDICATES A DEPRESSED SLAB ON GRADE. REFER TO DETAILS 6 AND 7 ON DRAWING S0-0-2 COORDINATE ALL SLAB DEPRESSIONS WITH REQUIREMENTS ON ARCHITECTURAL DRAWINGS.
- FOR TYPICAL EXTERIOR DOOR DETAIL, REFER TO DETAIL 6 ON DRAWING S0-0-3 AND RELEVANT SECTIONS.
- INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF SHEAR WALLS TO THE STRUCTURE.
- FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- INDICATES CONCRETE PIER REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-2.
- INDICATES UNDERGROUND UTILITY LINES PLUMBING THROUGH CONCRETE FOUNDATION WALL TYPICAL. COORDINATE FOOTING ELEVATION WITH PIPE INVERTS AND TYPICAL STRUCTURAL DETAILS.
- CONCRETE PIER REINFORCING PER DETAIL 5 ON DRAWING S0-0-2 IS TO BE PROVIDED FOR ALL CONCRETE WALLS SUPPORTING COLUMNS. HORIZONTAL WALL REINFORCING MUST REMAIN CONTINUOUS.

DRAWING NOTES:

- FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
- REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. FITCH ALL STEEL UNIFORMITY TO LOW POINTS AT THE COLUMNS AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- [XX] INDICATES THE NUMBER OF 3/4" DIAMETER x 3 1/2" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.
- INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 7, 8 AND 9 ON DRAWING S0-0-6.
- INDICATES A 5/16" FILLET WELD ALL AROUND, (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO TYPICAL DETAIL 2 ON DRAWING S0-0-7.
- < X > INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER.
- 1 1/2" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 2 1/2" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 4 1/2". REINFORCE WITH 6x6 - W21x120.1 WWR.
- 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE TYPE B, GALVANIZED STEEL ROOF DECK.
- 3" INDICATES SPAN DIRECTION OF 3" DEEP, 20 GAGE TYPE N, GALVANIZED STEEL ROOF DECK.
- FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 2 ON DRAWING S0-0-8.
- INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8 ON DRAWING S0-0-4 AND DETAIL 11 ON DRAWING S0-0-8 FOR DECKING SUPPORT. REFER TO DETAIL 4 ON DRAWING S0-0-5. REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
- CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.
- WB INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 9 ON DRAWING S0-0-8.
- INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF SHEAR WALLS TO THE STRUCTURE.
- FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.

FOOTING SCHEDULE		
DESIGN SOIL BEARING CAPACITY = 2 TSF		
MARK	SIZE	REINFORCEMENT
F4	4'-0" x 4'-0" x 1'-6"	6 - #5 BOT EA WAY
F6T	6'-0" x 6'-0" x 2'-0"	7 - #6 BOT EA WAY

T INDICATES TOP REINFORCING TO MATCH BOTTOM REINFORCING



LOCKER BUILDING ELEVATOR ROOF PART PLAN

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NORTHEAST METRO TECH

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Wakefield, MA 01880

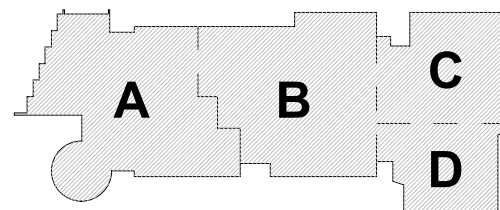


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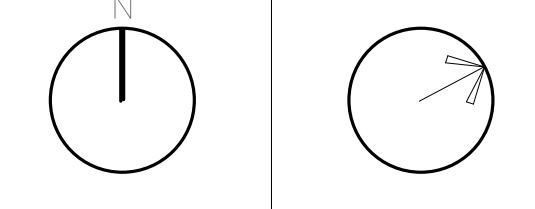
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KEY PLAN

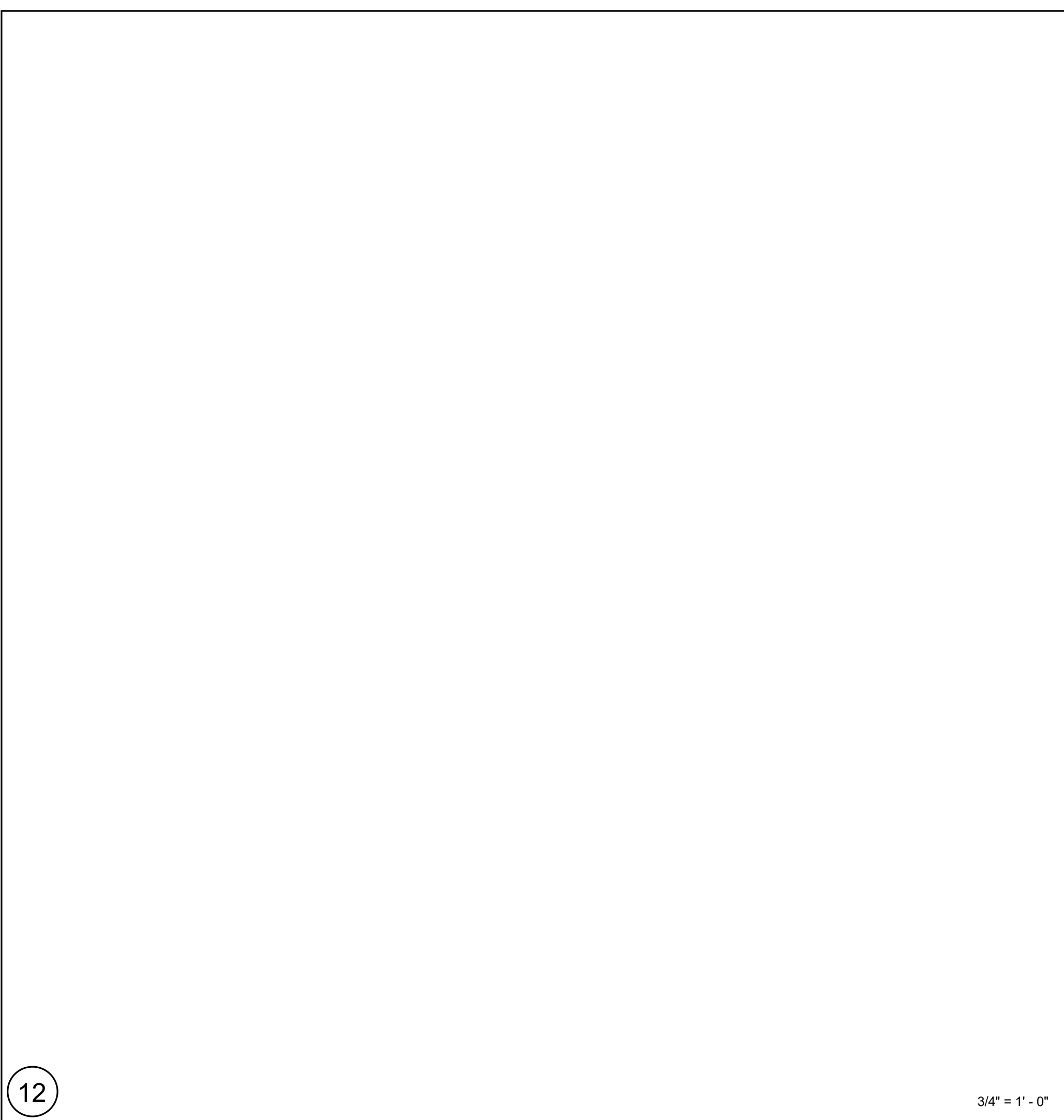
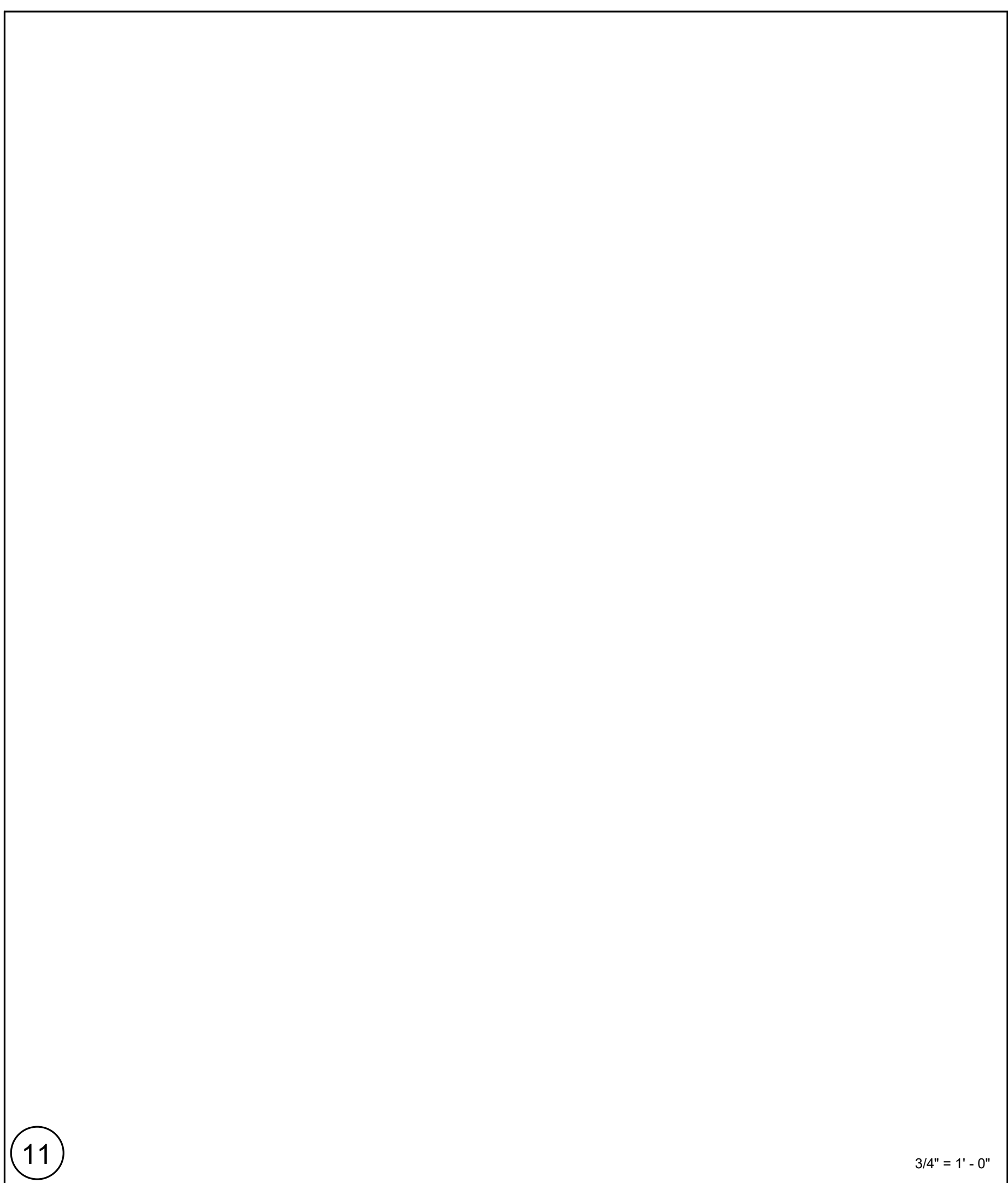
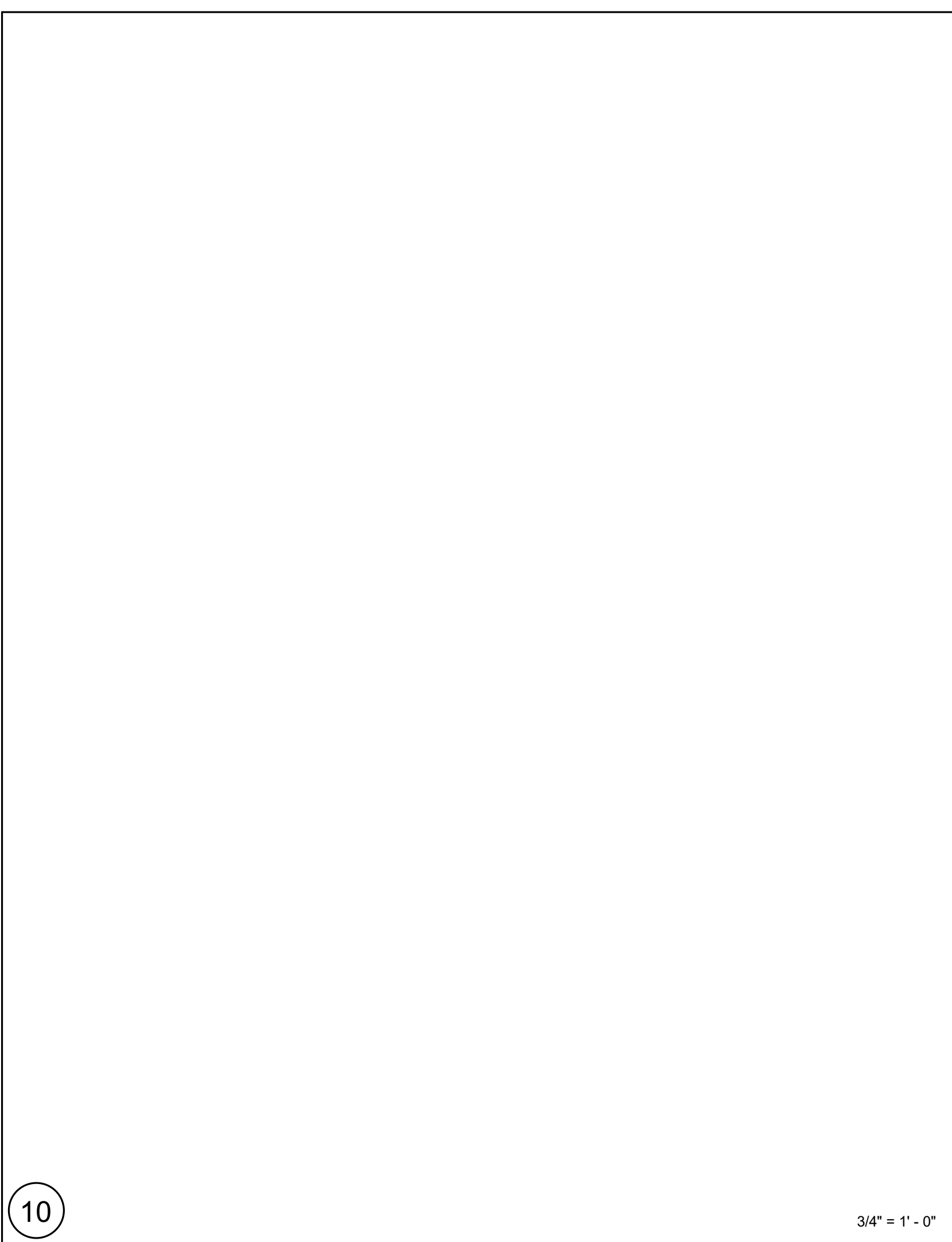
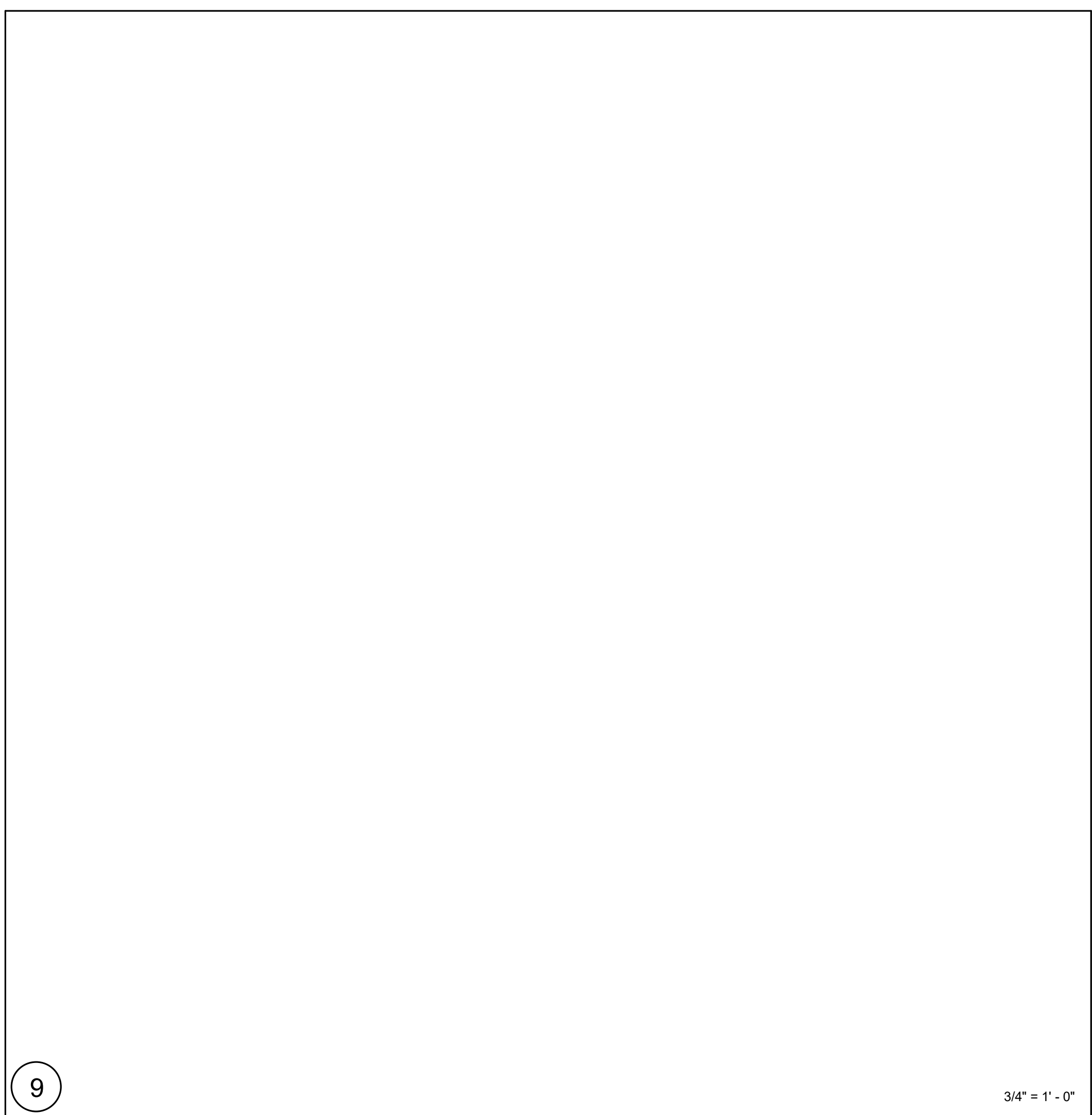
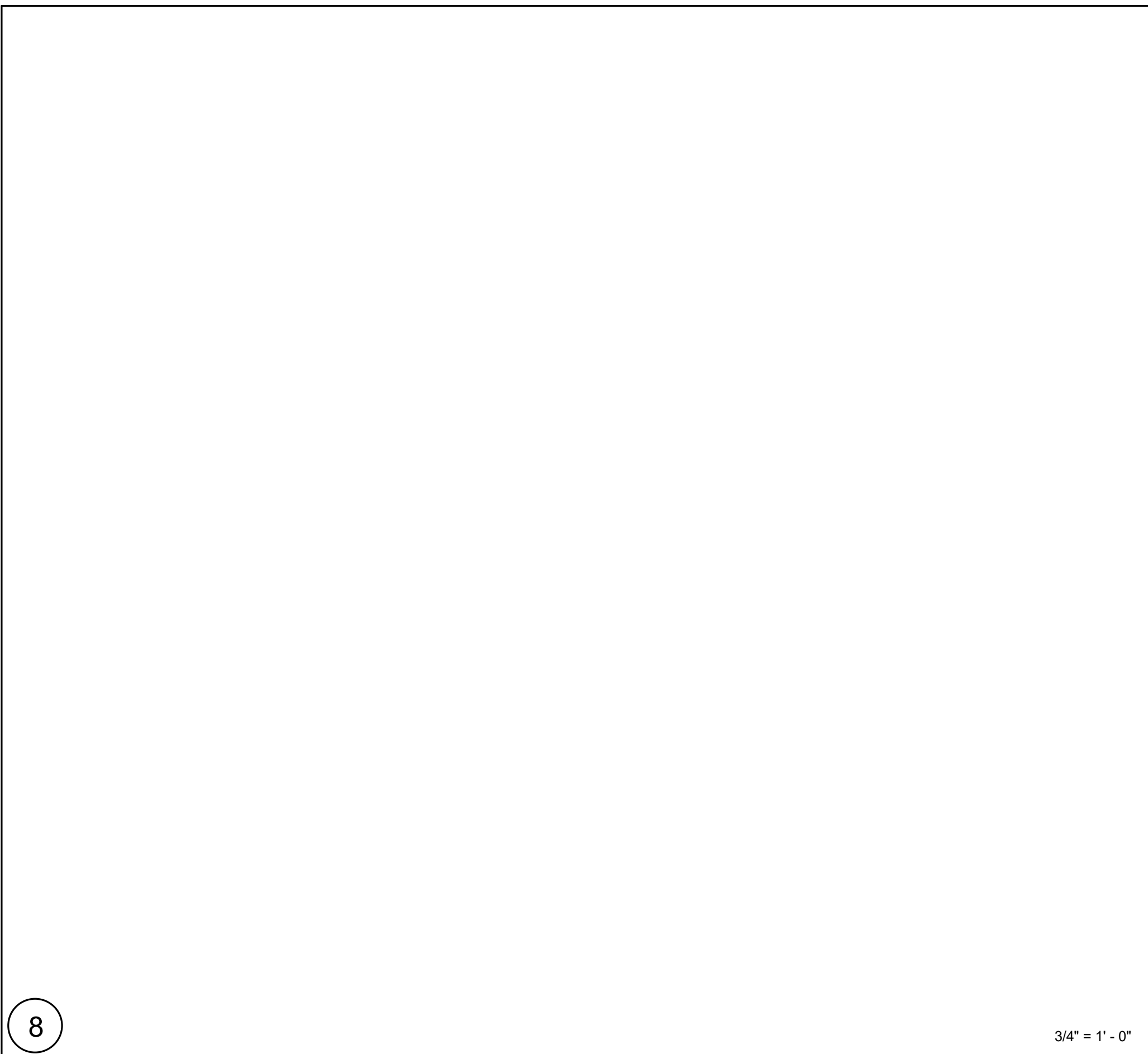
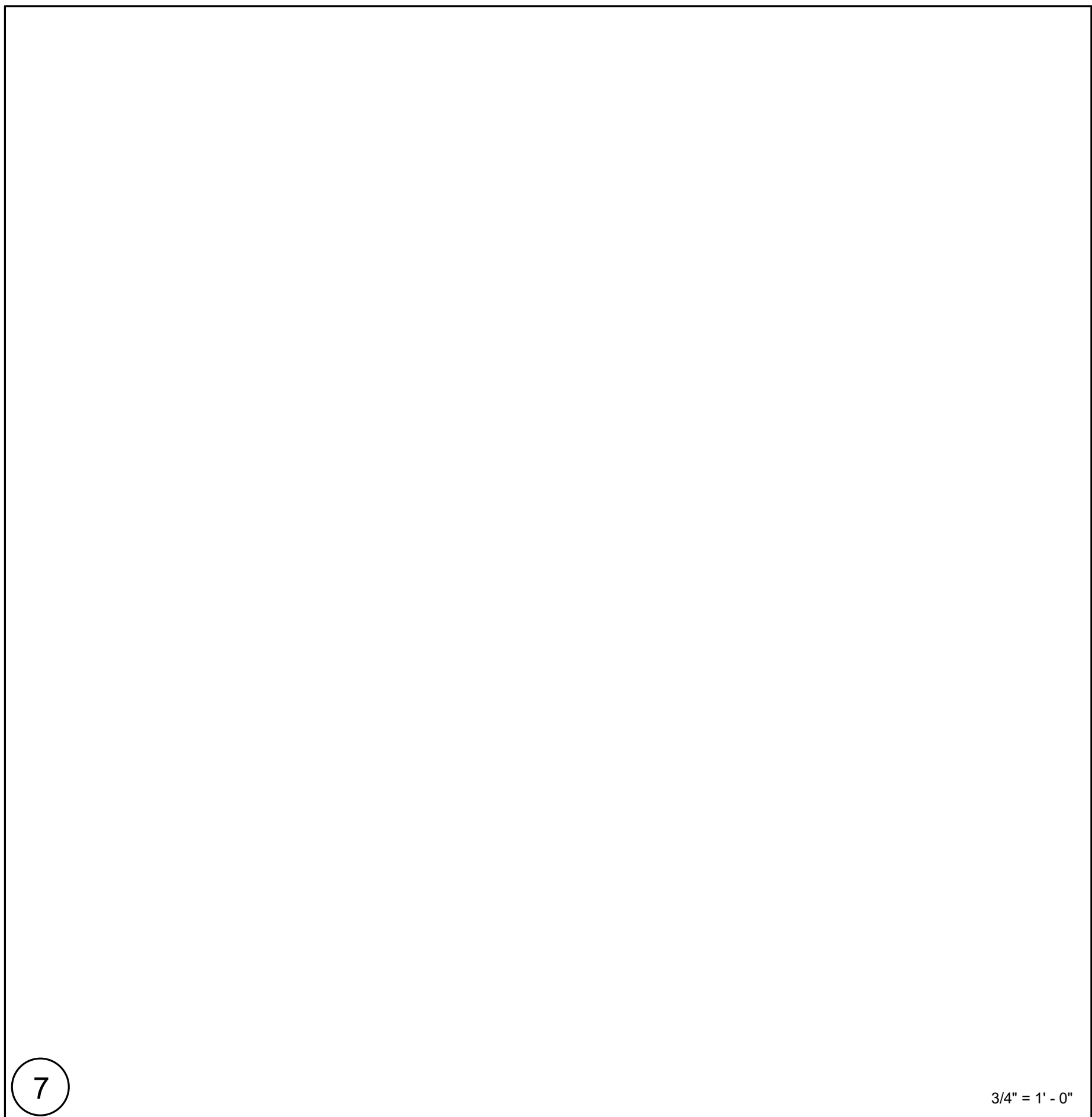
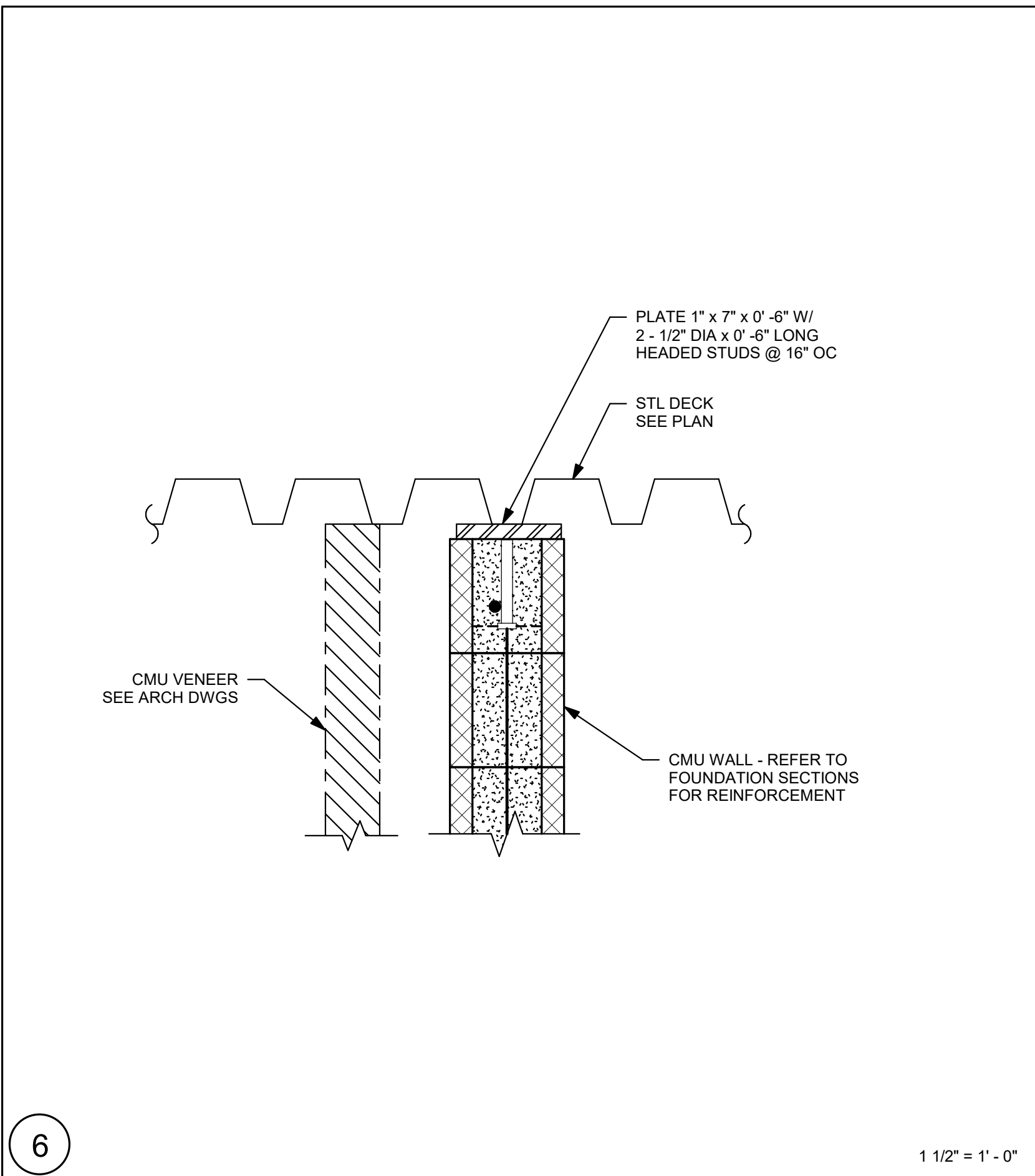
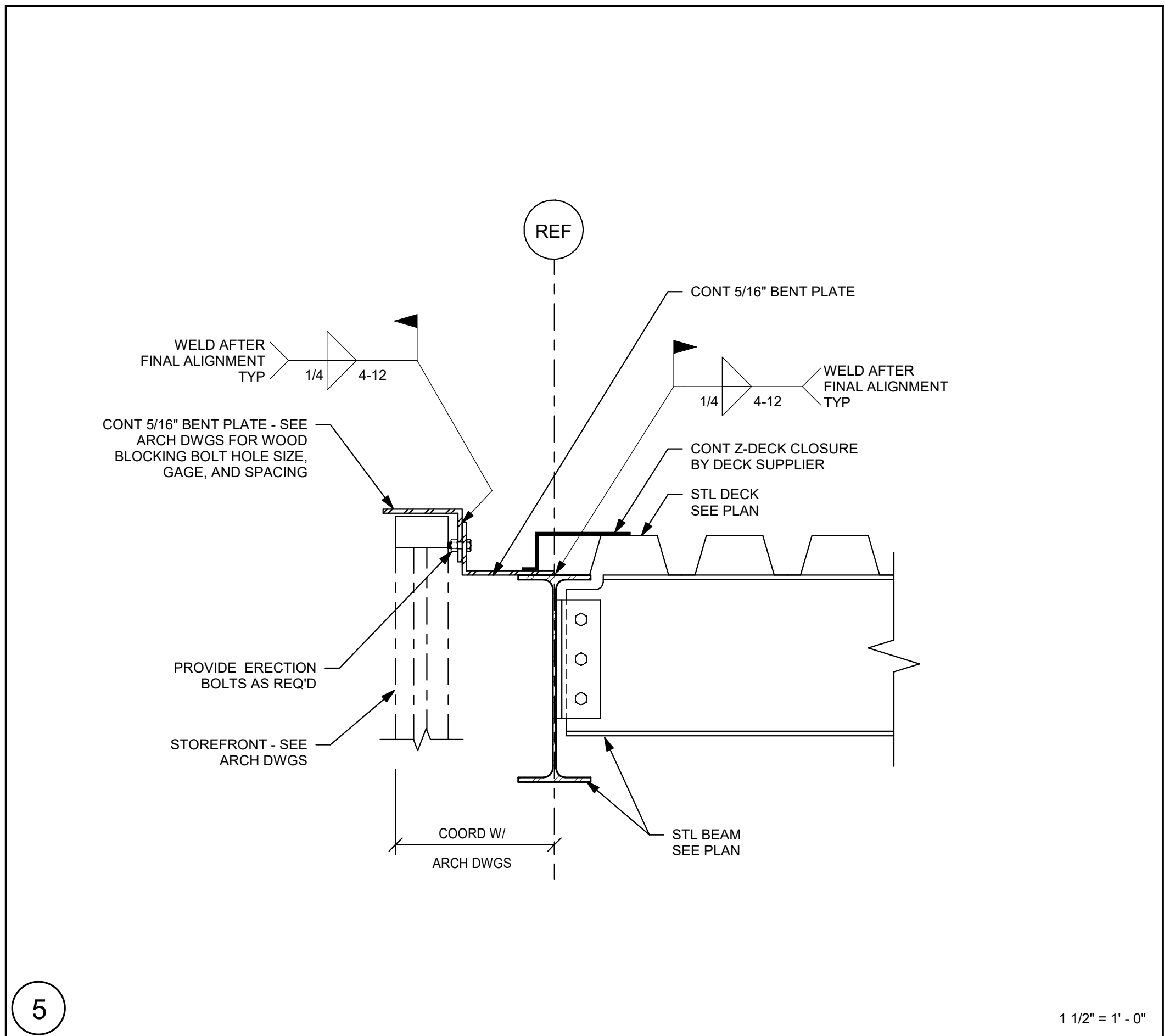
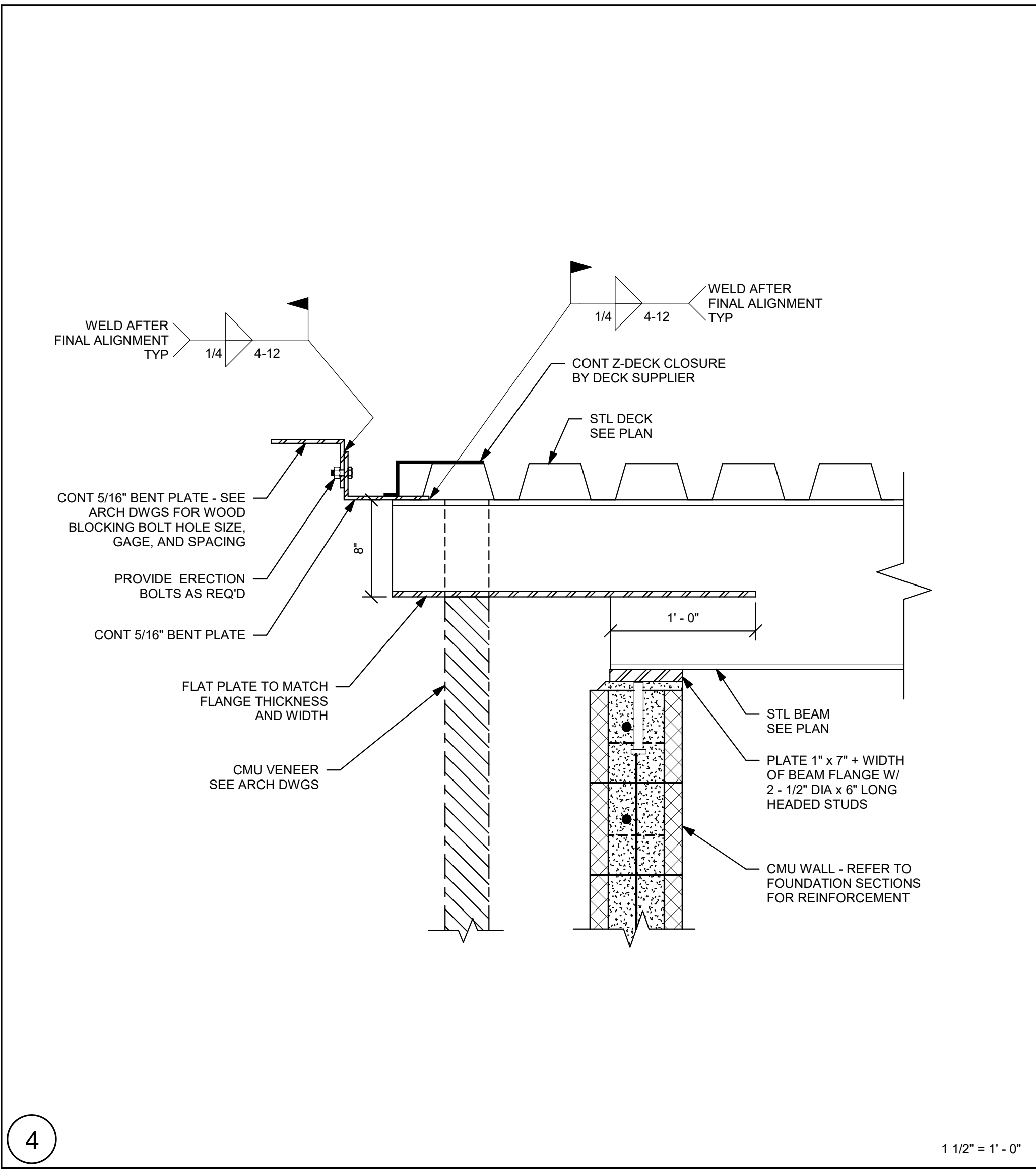
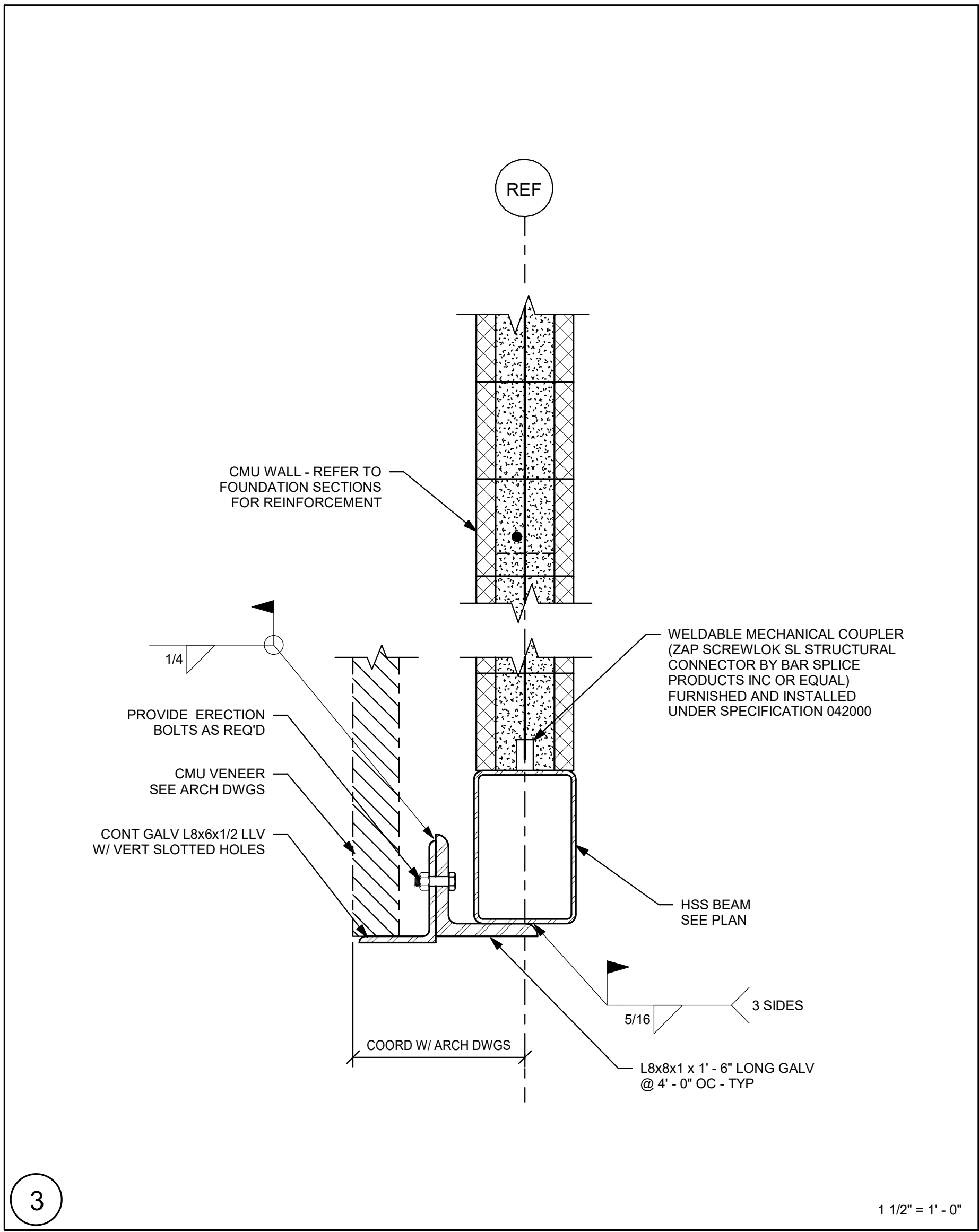
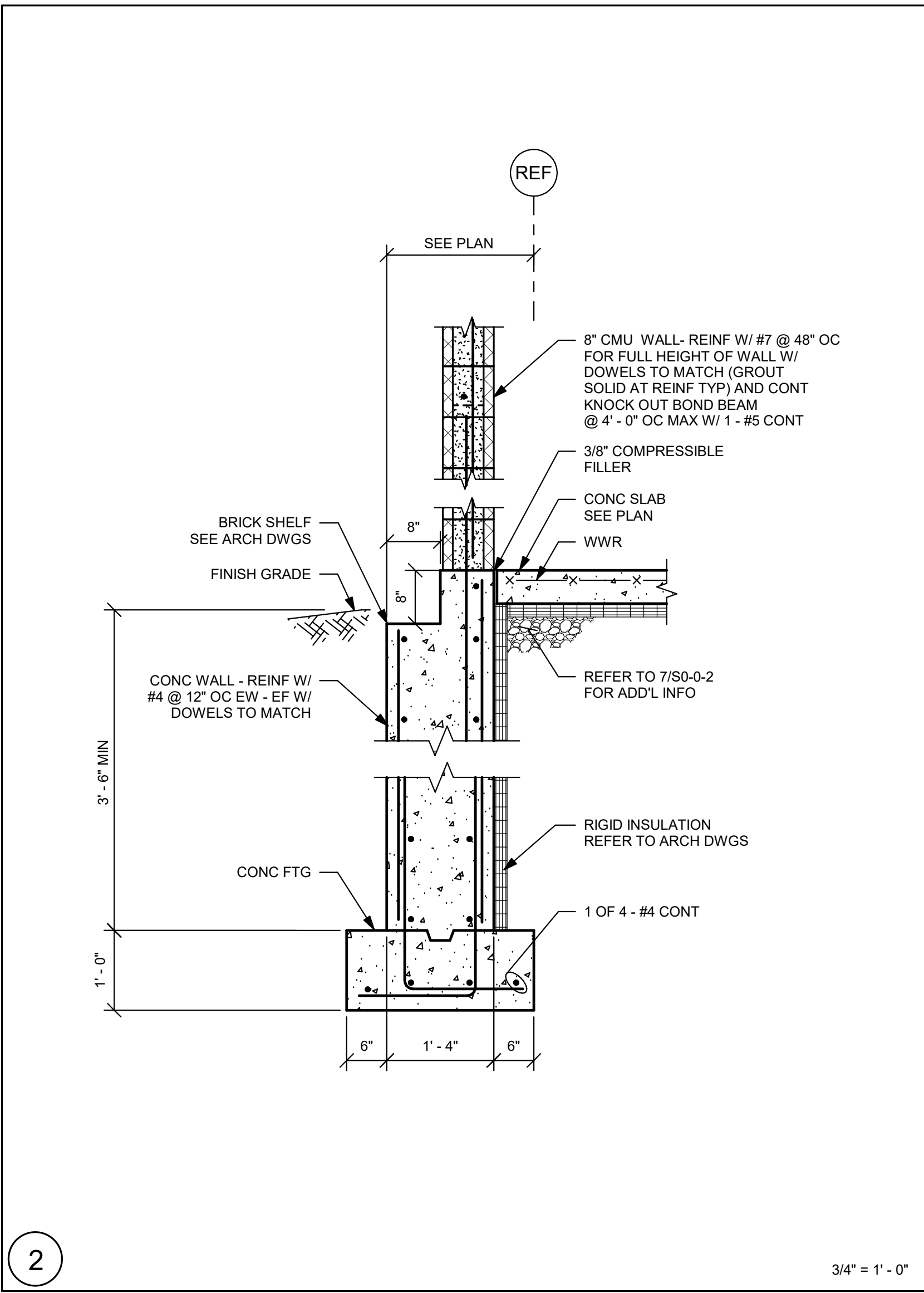
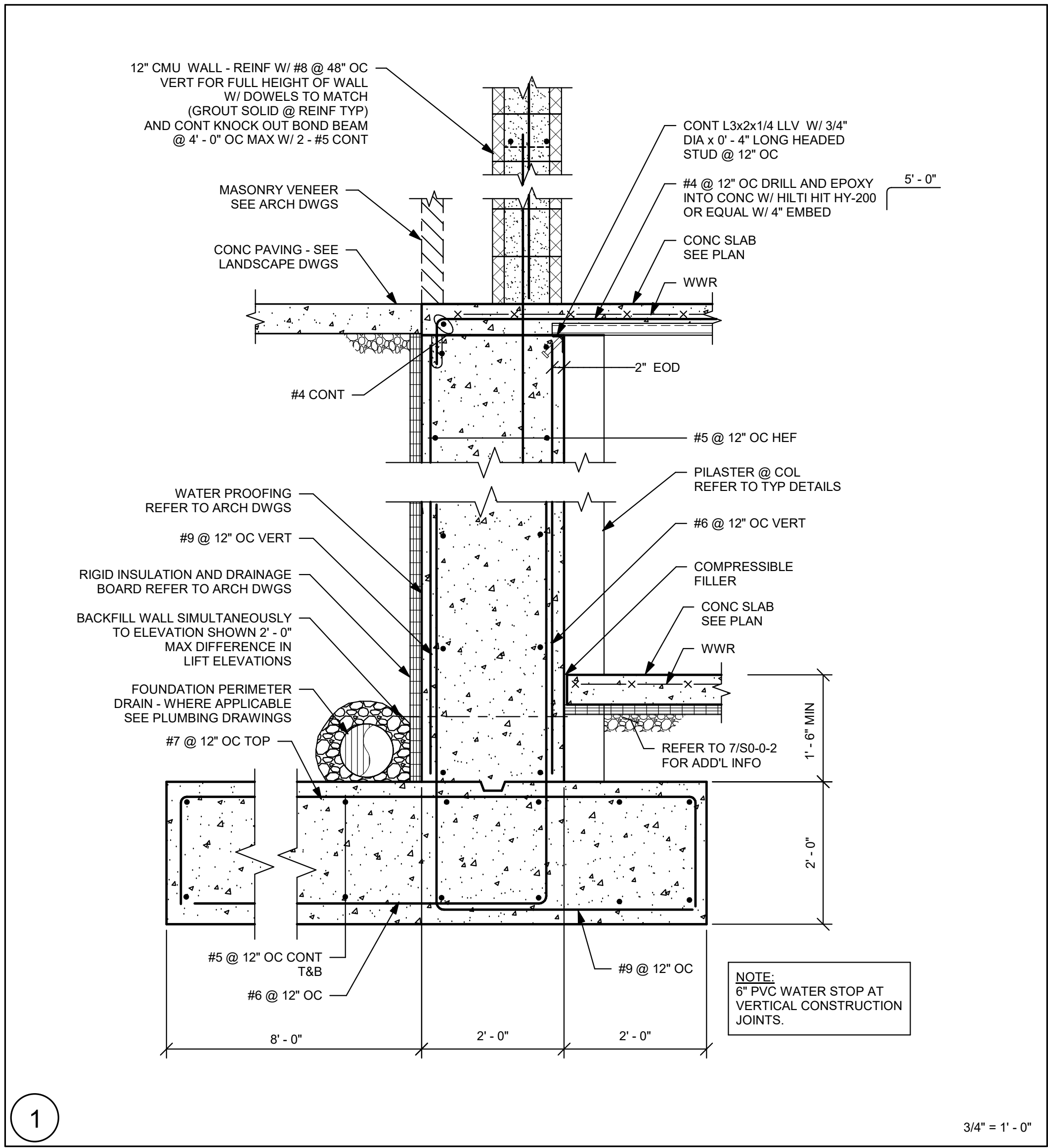
PROJECT NORTH MAGNETIC NORTH



LOCKER BUILDING PLANS

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: EDG  
Date: 01/13/2023  
SL-1-1





**NORTHEAST  
METRO TECH**

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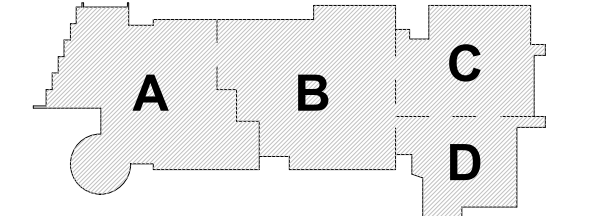
**EDG**

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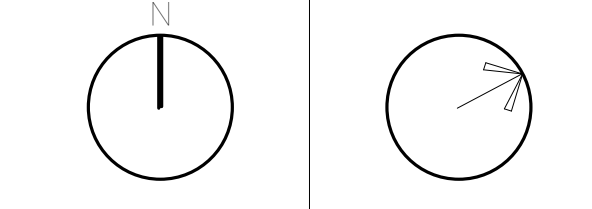
MSBA 60% CD  
Submission

01/13/2023

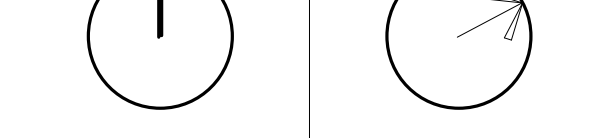


KEY PLAN

PROJECT NORTH



MAGNETIC NORTH



**LOCKER ROOM  
BUILDING  
SECTIONS**

Scale: As indicated  
Job No.: 20202  
Drawn By: EDG  
Date: 01/13/2023

**SL-2-1**





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NORTHEAST  
METRO TECH

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Wakefield, MA 01880

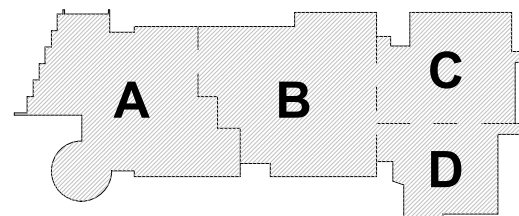


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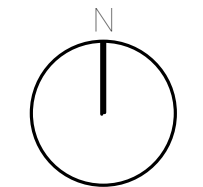
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Submission

01/13/2023

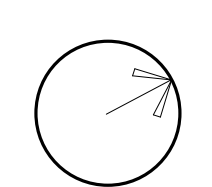


KEY PLAN

PROJECT NORTH



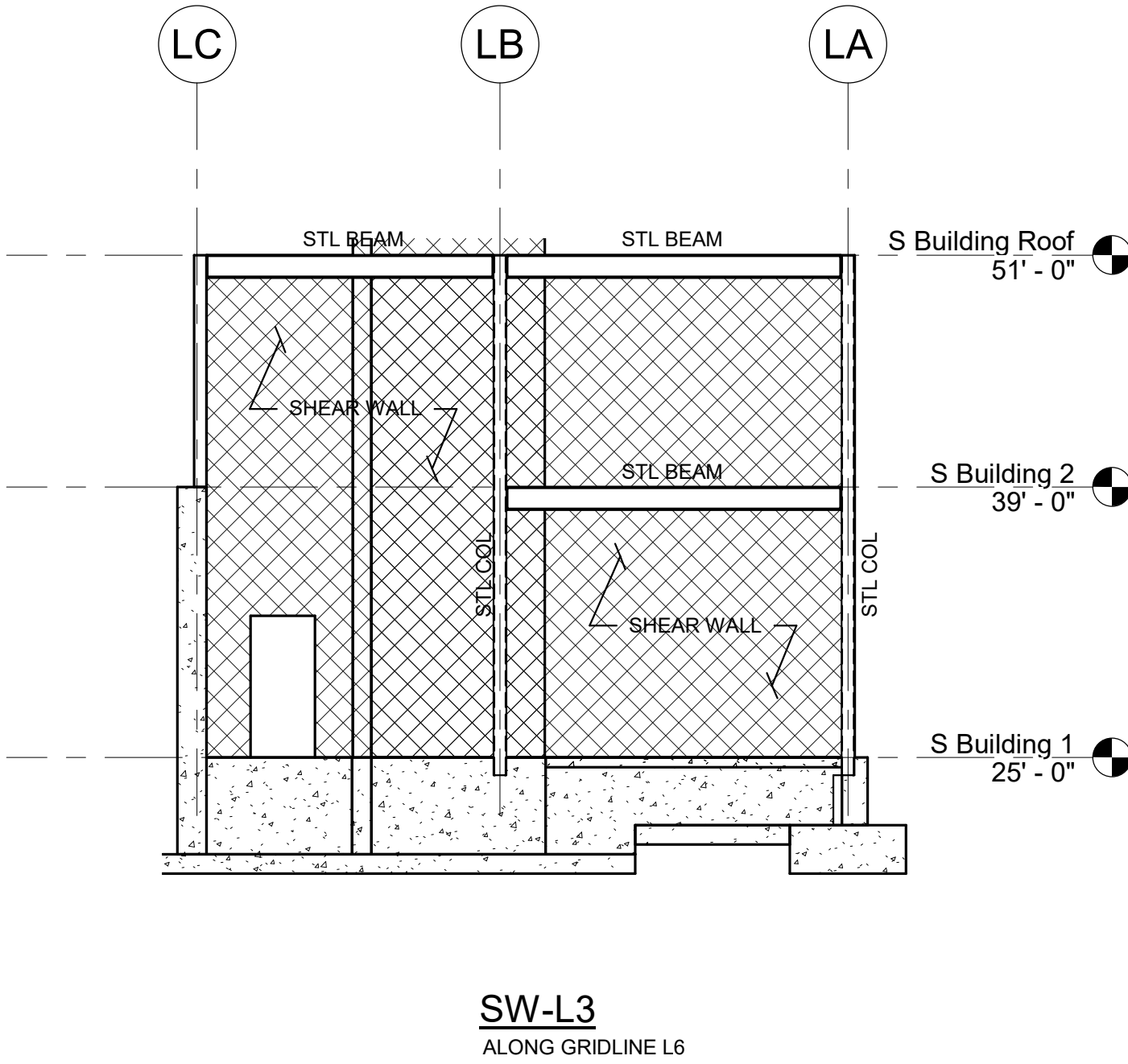
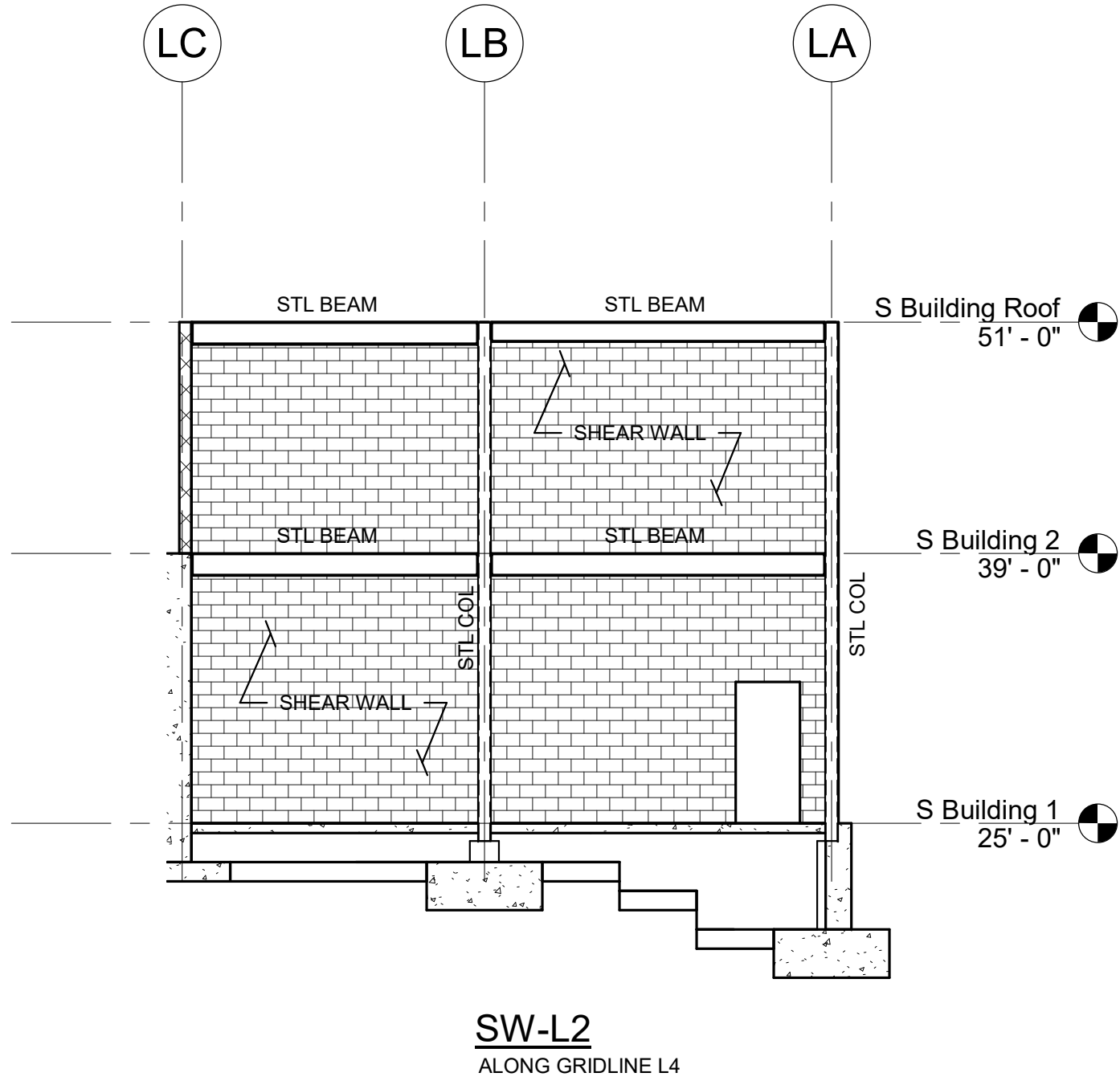
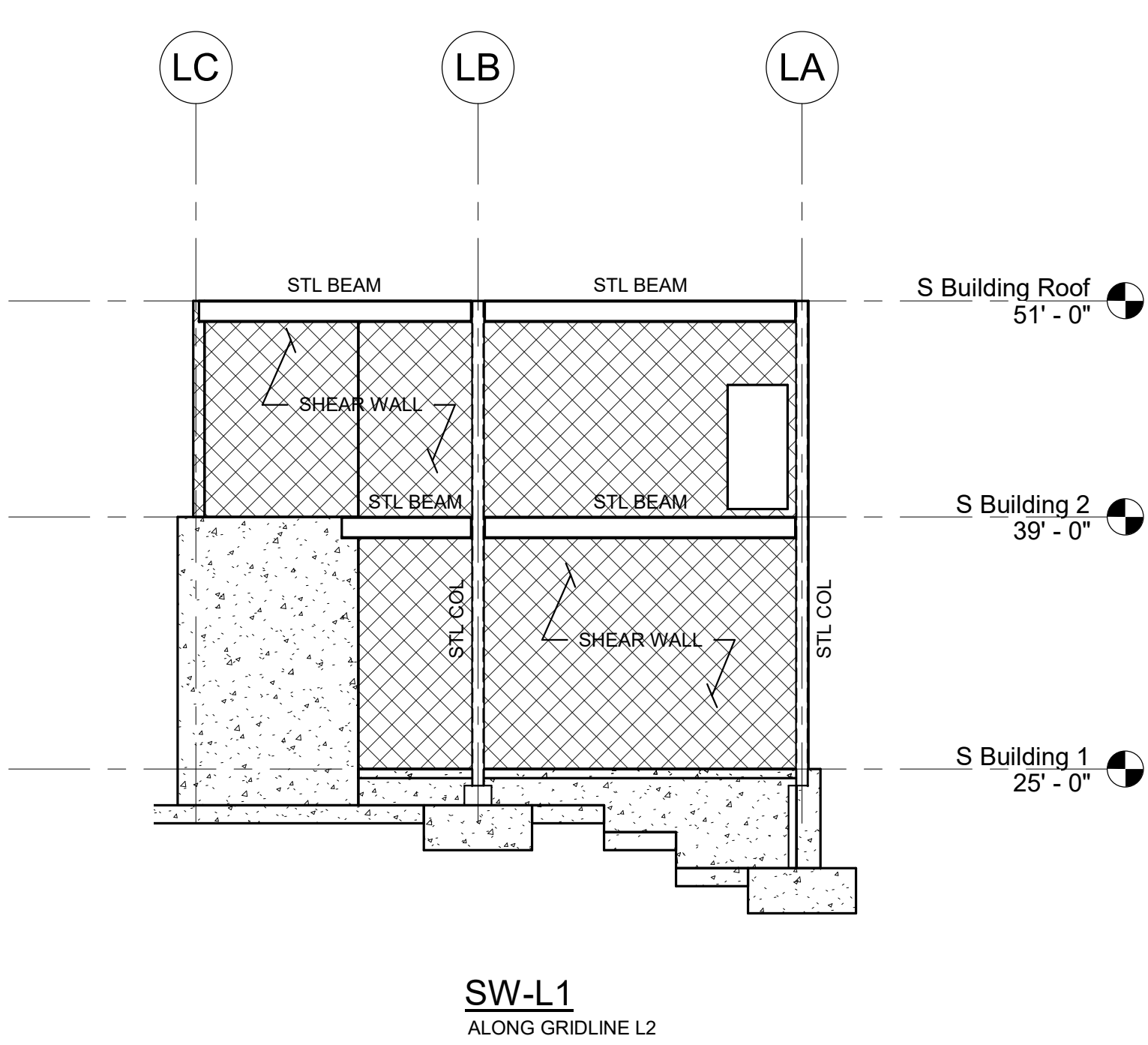
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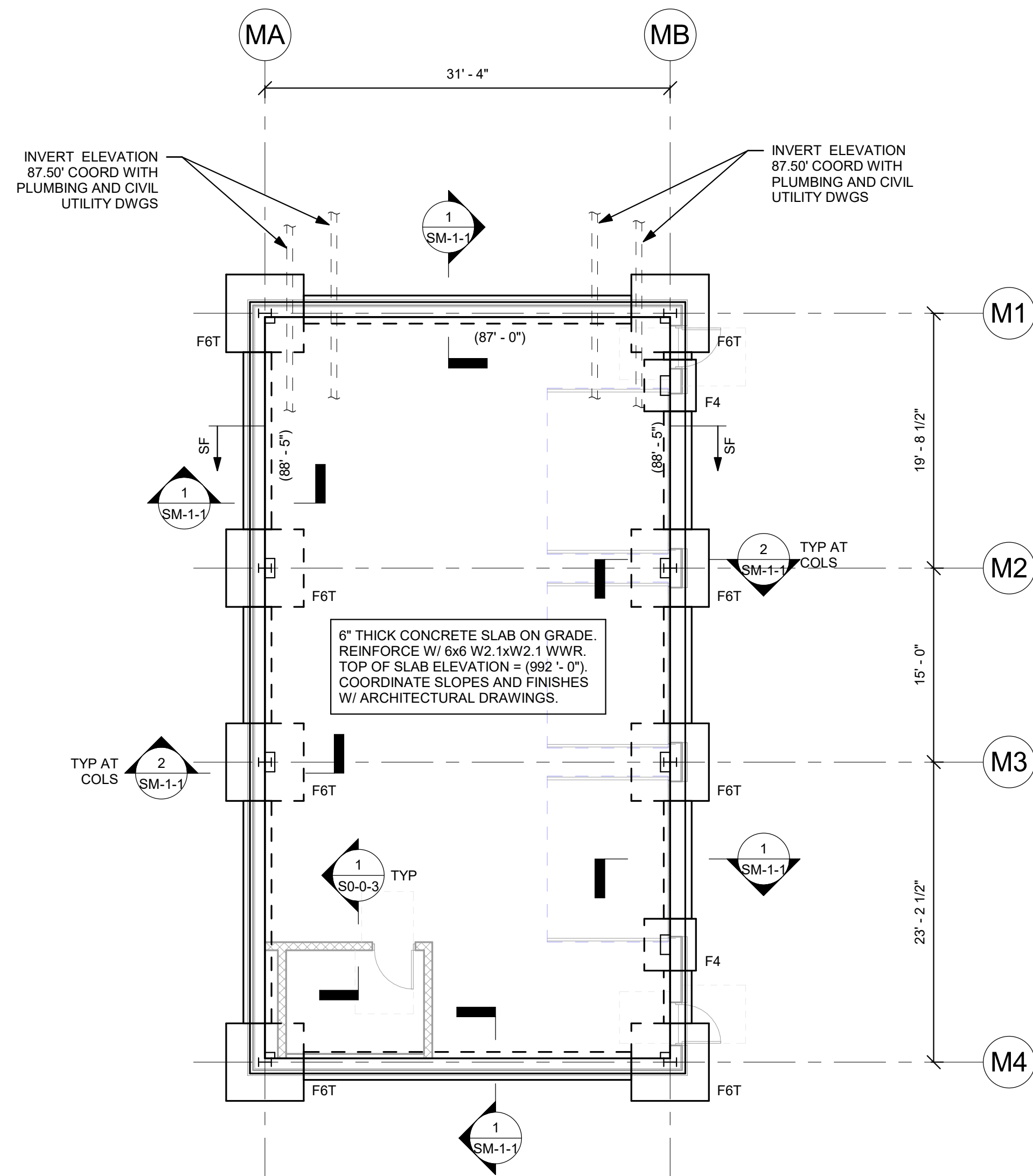
LOCKER ROOM  
BUILDING  
SHEAR WALLS

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: EDG  
Date: 01/13/2023

SL-3-1





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Malden, MA 02148  
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MAINTENANCE BUILDING GROUND FLOOR PLAN

## FOUNDATION NOTES:

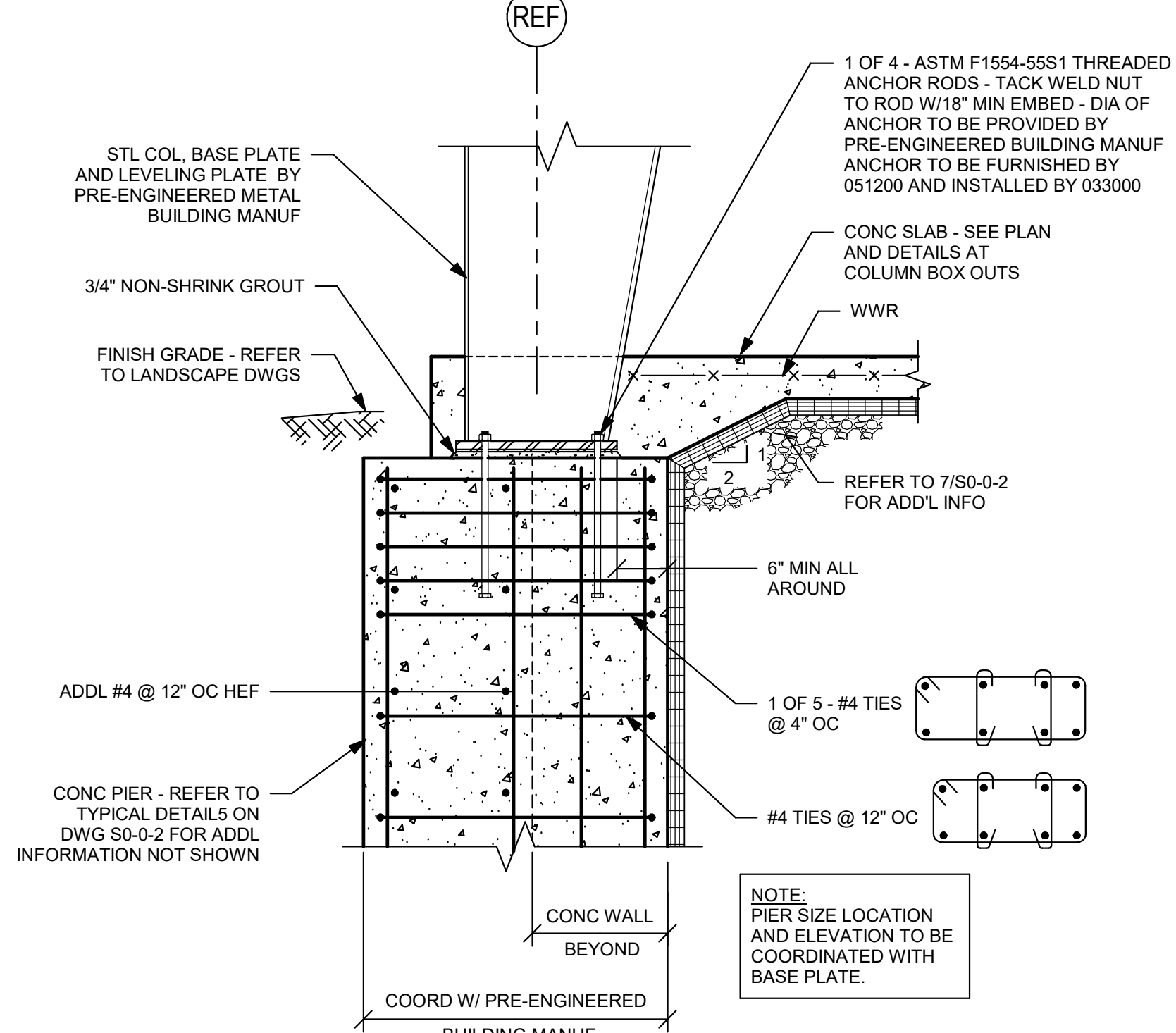
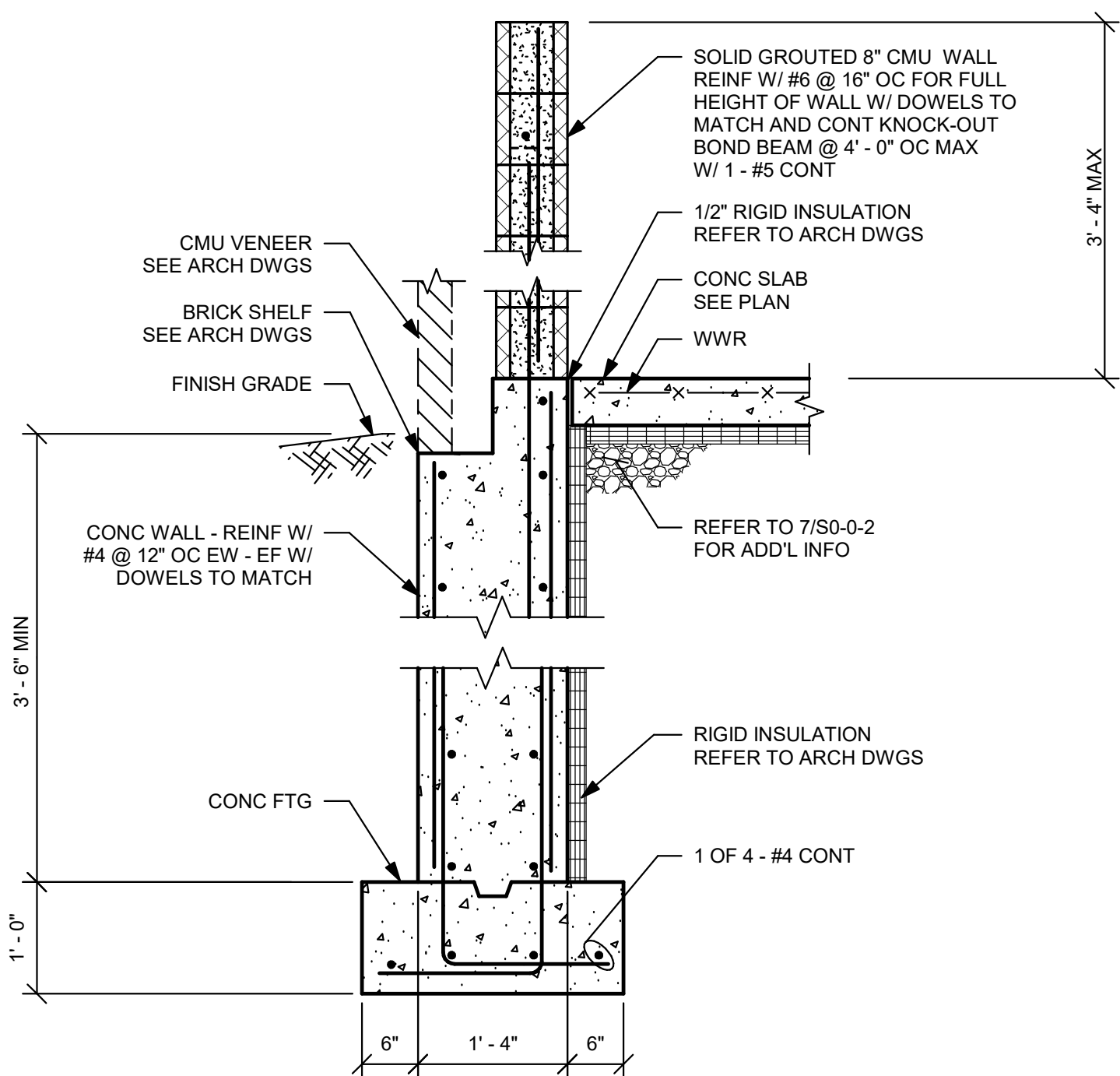
- 1) REFER TO GRADING DRAWINGS FOR PLAN AND GRADE ELEVATIONS. THE STRUCTURAL DRAWINGS USES A DATUM OF 100'-0" AT THE MAIN FLOOR, WHICH CORRESPONDS TO 163.87' MEAN SEA LEVEL, AS SHOWN ON THE SITE AND CIVIL DRAWINGS.
- 2) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
- 3) F3 ETC., INDICATES A FOOTING TYPE. FOR SIZE OF FOOTING AND REINFORCEMENT SEE SCHEDULE ON THIS DRAWING.
- 4) TOP OF FOOTING ELEVATION TO BE 3'-6" MINIMUM BELOW LOWEST ADJACENT FINISHED GRADE AT EXTERIOR CONDITIONS AND 2'-0" BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS. ALL OTHER TOP OF FOOTING ELEVATIONS ARE DENOTED AS THUS (XX'-XX") ON PLANS. CONTRACTOR TO COORDINATE AND VERIFY ALL TOP OF FOOTING ELEVATIONS WITH UNDERGROUND PLUMBING SUB-CONTRACTOR'S FIELD LAYOUT.
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- 6) ALL FOOTINGS TO BE CENTERED UNDER COLUMNS UNLESS NOTED OTHERWISE.
- 7) SF → INDICATES A STEPPED FOOTING REFER TO DETAIL 1 ON DRAWING S0-0-2.
- 8) BOTTOM OF BASE PLATE ELEVATION TO BE 1'-5" MINIMUM BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS, AND 0'-11" BELOW TOP OF CONCRETE SLAB AT EXTERIOR CONDITIONS. UNLESS NOTED OTHERWISE AS (XX'-XX") REFER TO ARCHITECTURAL DRAWINGS FOR BRICK SHELF ELEVATIONS.
- 10) FOR UNDER SLAB DRAINAGE AND WALL DRAINS, COORDINATE WITH ARCHITECTURAL, STRUCTURAL, CIVIL, AND PLUMBING DRAWINGS.
- 11) → INDICATES A DEPRESSED SLAB ON GRADE. REFER TO DETAILS 6 AND 7 ON DRAWING S0-0-2 COORDINATE ALL SLAB DEPRESSIONS WITH REQUIREMENTS ON ARCHITECTURAL DRAWINGS.
- 12) FOR TYPICAL EXTERIOR DOOR DETAIL REFER TO DETAIL 6 ON DRAWING S0-0-3 AND RELEVANT SECTIONS.
- 13) → OR 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF SHEAR WALLS TO THE STRUCTURE.
- 14) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- 15) □ INDICATES CONCRETE PIER REFER TO TYPICAL DETAIL 5 ON DRAWING S0-0-2.
- 16) □ □ INDICATES UNDERGROUND UTILITY LINES PLUMBING THROUGH CONCRETE FOUNDATION WALL TYPICAL. COORDINATE FOOTING ELEVATION WITH PIPE INVERTS AND TYPICAL STRUCTURAL DETAILS.

## FOOTING SCHEDULE

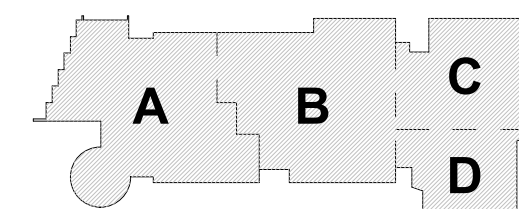
DESIGN SOIL BEARING CAPACITY = 2 TSF

MARK	SIZE	REINFORCEMENT
F4	4'-0" x 4'-0" x 1'-6"	6 - #5 BOT EA WAY
F6T	6'-0" x 6'-0" x 2'-0"	7 - #6 BOT EA WAY

T INDICATES TOP REINFORCING TO MATCH BOTTOM REINFORCING

MSBA 60% CD  
Submission

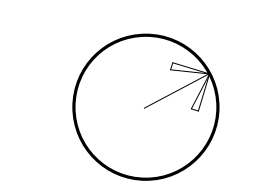
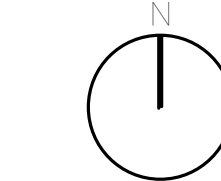
01/13/2023



## KEY PLAN

PROJECT NORTH

MAGNETIC NORTH

MAINTENANCE  
BUILDING PLANS

Scale: As indicated

Job No.: 20202

Drawn By: EDG

Date: 01/13/2023

SM-1-1