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CODE SUMMARY:									
1. THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2018 NORTH CAROLINA BUILDING CODE, IBC 2015, WITH AMENDMENTS									
DESIGN LOADS: TOWER									
ROOF -	LIVE			20	PSF	INCLUDES 5 PSF RAIN SURCHARGE			
	SNOW	P _s	GROUND	10	PSF				
		P _f	FLAT ROOF LOAD	12	PSF				
		C _e	EXPOSURE FACTOR	1.0					
		I _s	IMPORTANCE FACTOR	1.0					
		C _t	TEMPERATURE FACTOR	1.0					
DEAD				20	PSF	TOTAL			
				2.5	PSF	ROOF			
				1.5	PSF	INSULATION			
				2.0	PSF	METAL ROOF DECKING			
				5.0	PSF	STEEL FRAMING			
				2.0	PSF	CEILING			
				7.0	PSF	M-E-P-S			
S.O.M.D.-	LIVE			80	PSF	SELF WEIGHT OF CONCRETE			
	DEAD			65	PSF				
S.O.G. -	LIVE			100	PSF				
	DEAD			65	PSF				

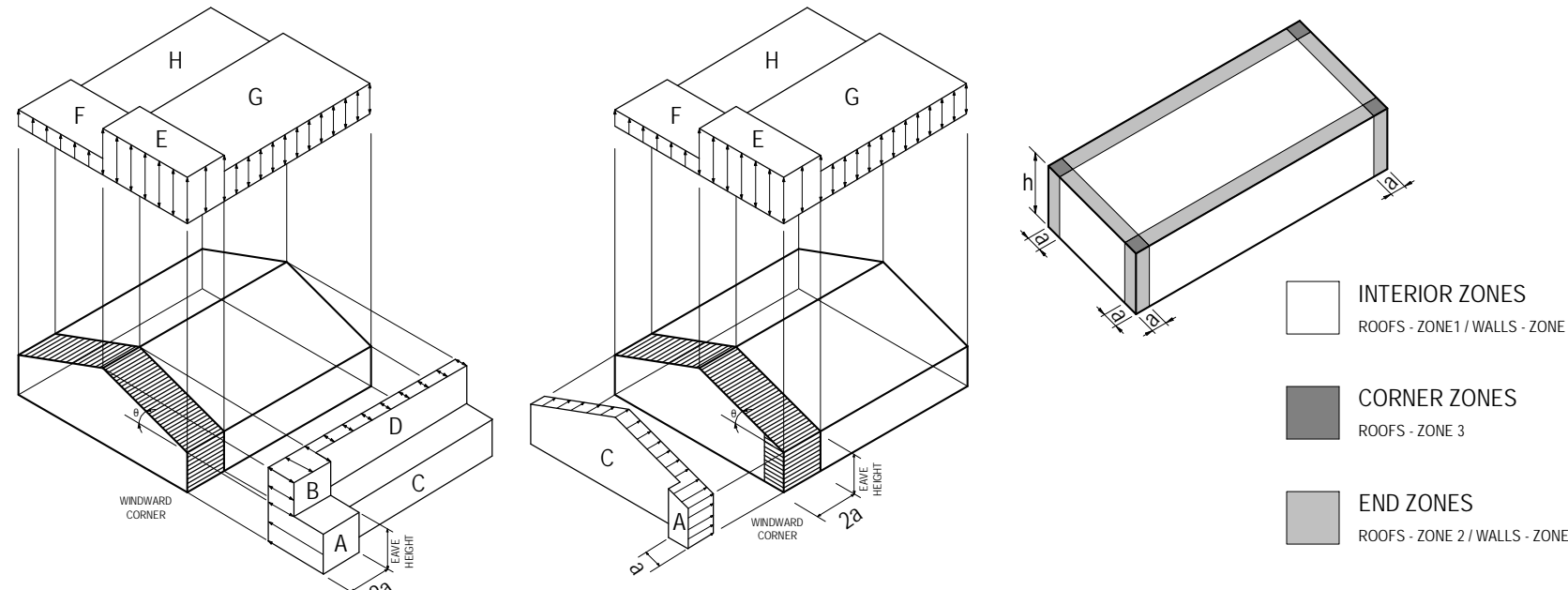
WIND: TOWER					
VELOCITY					
	V _{ult}		146	MPH	
	V _{ref}		113.1	MPH	
RISK CATEGORY			II		
EXPOSURE CATEGORY			B		ALL MWFRS AND C & C
INTERNAL PRESSURE COEFFICIENT			+/-0.18		DESIGN PRESSURES
					SHOWN ARE ULTIMATE
					WIND LOAD VALUES
P DESIGN PRESSURE FOR MAIN WIND FORCE RESISTING SYSTEM					
HORIZONTAL ZONE A			41.11	PSF	ROOF DECK, FASTENERS, & FASTENING PATTERNS HAVE BEEN DESIGNED ASSUMING UNIFORM UPLIFT PRESSURES. ROOF MEMBRANE & INSULATION ATTACHMENTS SHALL BE DESIGNED TO TRANSFER UNIFORM UPLIFT PRESSURES.
HORIZONTAL ZONE B			-21.29	PSF	
HORIZONTAL ZONE C			-27.27	PSF	
HORIZONTAL ZONE D			-12.67	PSF	
VERTICAL ZONE E			-49.36	PSF	
VERTICAL ZONE F			-28.07	PSF	
VERTICAL ZONE G			-34.33	PSF	
VERTICAL ZONE H			-21.73	PSF	
OVERHANG ZONE E _h			-63.10	PSF	
OVERHANG ZONE G _h			-54.10	PSF	

P DESIGN PRESSURE FOR COMPONENTS & CLADDING - NEGATIVE PRESSURE TABLE									
				EFFECTIVE AREA					
				105SF	205SF	505SF	1005SF	5005SF	
ROOF ZONE 1				46.64	45.40	43.87	42.44		
ROOF ZONE 2				-78.21	-69.90	-58.83	-50.53		
ROOF ZONE 3				-117.66	-97.53	-70.78	-50.53		
WALL ZONE 4				-50.53	-48.49	-46.72	-43.56	-38.70	
WALL ZONE 5				-62.40	-58.15	-52.61	-48.49	-38.70	
OVERHANG ZONE 2 _h				-67.13	-65.97	-64.37	-63.20		
OVERHANG ZONE 3 _h				-110.57	-96.83	-85.30	-71.56		

P DESIGN PRESSURE FOR COMPONENTS & CLADDING - POSITIVE PRESSURE TABLE									
				EFFECTIVE AREA					
				105SF	205SF	505SF	1005SF	5005SF	
ALL ROOF ZONES				18.96	17.72	16.24	15.01		
ALL WALL ZONES				46.64	44.55	41.71	39.62	34.77	

PERIMETER WIDTH	a	=	11.0	FT
WIND BASE SHEAR	V _x	=	431.45	K
	V _y	=	208.14	K

MAIN WIND FORCE RESISTING SYSTEM DIAGRAMS



SEISMIC: TOWER		S _s	=	0.212
		S ₁	=	0.090
		S _{se}	=	0.226
		S _{u1}	=	0.144
SEISMIC RISK CATEGORY		II		
IMPORTANCE FACTOR, I _e		1.0		
SITE CLASS		D		
DESIGN CATEGORY		C		
SEISMIC FORCE RESISTING SYSTEM				
X - DIRECTION			ORDINARY PRECAST SHEARWALLS	
Y - DIRECTION			ORDINARY PRECAST SHEARWALLS	
RESPONSE MODIFICATION FACTOR, R				
X - DIRECTION		3.0		
Y - DIRECTION		3.0		
C _s , SEISMIC RESPONSE COEFFICIENT				
X - DIRECTION		0.0754		
Y - DIRECTION		0.0754		
ANALYSIS PROCEDURE			EQUIVALENT LATERAL FORCE	
SEISMIC BASE SHEAR		V _x	=	575.36 K
		V _y	=	494.33 K

2. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH SITE, ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL DRAWINGS AND APPLICABLE INFORMATION PROVIDED BY MATERIALS AND EQUIPMENT SUPPLIERS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT WORK OF ALL TRADES IS COORDINATED WITH THE STRUCTURAL WORK.
3. CONFIRM ALL DIMENSIONS WITH ARCHITECTURAL AND SITE DRAWINGS PRIOR TO CONSTRUCTION

CONCRETE:

1. CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH ACI 318-14: "BUILDING REQUIREMENTS FOR REINFORCED CONCRETE". CONCRETE WORK SHALL COMPLY WITH PROVISIONS OF THE CURRENT EDITIONS OF THE FOLLOWING CODES, SPECIFICATIONS, AND STANDARDS. EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE REQUIRED.

A.	<u>AMERICAN CONCRETE INSTITUTE</u>		
	-	ACI 117	"SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS"
	-	ACI 301	"SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
	-	ACI 315	"MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES"
	-	ACI 347	"RECOMMENDED PRACTICE FOR CONCRETE FORMWORK"
	-	ACI SP-15	"FIELD REFERENCE MANUAL"
B.	<u>CONCRETE REINFORCING STEEL INSTITUTE</u>		
	-	"CRSI MANUAL OF STANDARD PRACTICE FOR REINFORCING PLACEMENT"	
C.	<u>AMERICAN WELDING SOCIETY</u>		
	-		

2. REINFORCING STEEL SHALL BE GRADE 60, DEFORMED TYPE, CONFORMING TO ASTM A615. WELDED WIRE FABRIC SHALL BE COLD-DRAWN, RESISTANCE WELDED TYPE, CONFORMING TO ASTM A1064 REQUIREMENTS. MILL TEST REPORTS FOR REINFORCEMENT SHALL BE SUBMITTED FOR REVIEW. REINFORCEMENT SHALL BE CLEAN OF ICE, MUD, OIL, OR OTHER DELTERIOUS COATINGS THAT DECREASE BOND AT TIME OF CONCRETE PLACEMENT. REINFORCEMENT SHALL BE PLACED WITHIN REQUIRED TOLERANCES AND SUPPORTED TO PREVENT DISPLACEMENT BEYOND REQUIRED TOLERANCES DURING CONCRETE PLACEMENT.

3. CONCRETE SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
- | APPLICATION | WEIGHT | MIN. f_c' | NOM. MAX. AGG. | MAX. w/cm | % AIR ENTRAINMENT | |
|-----------------|--------|-------------|----------------|-------------|-------------------|-----|
| FOOTINGS | NORMAL | 3000 | PSI | 3/4" | N/A | N/A |
| SLAB ON GRADE | NORMAL | 3500 | PSI | 3/4" | N/A | N/A |
| ELEVATED FLOORS | NORMAL | 3500 | PSI | 3/4" | N/A | N/A |
| TILT-UP PANELS | NORMAL | 4000 | PSI | 3/4" | 0.50 | N/A |
| EXTERIOR PAVING | N/A | N/A | PSI | N/A | N/A | N/A |

4. PORTLAND CEMENT SHALL BE TYPE I OR II, CONFORMING TO ASTM C150 REQUIREMENTS TO MAINTAIN THE MINIMUM COVER INDICATED ON THE DETAILS. PROVIDE NORMAL WEIGHT AGGREGATES CONFORMING TO ASTM C231. FLY ASH SHALL CONFORM TO ASTM C618. MIXING WATER SHALL CONFORM TO ASTM C1602. ADMIXTURES FOR WATER REDUCTION OR SETTING TIME MODIFICATIONS SHALL CONFORM TO ASTM C494. AIR ENTRAINMENT ADMIXTURES SHALL CONFORM TO ASTM C260.

5. DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW BEFORE THE MIXTURE IS USED AND BEFORE MAKING CHANGES TO MIXTURES ALREADY IN USE.

6. CEMENTITIOUS MATERIALS AND AGGREGATES SHALL BE STORED TO PREVENT DETERIORATION OR CONTAMINATION PRIOR TO BATCHING. MATERIAL THAT HAS DETERIORATED, OR HAS BEEN CONTAMINATED SHALL NOT BE USED IN CONCRETE. CONCRETE SHALL BE BATCHED, MIXED, AND DELIVERED IN ACCORDANCE WITH ASTM C94 OR ASTM C685.

7. DEBRIS AND ICE SHALL BE REMOVED FROM SPACES TO BE OCCUPIED BY CONCRETE BEFORE PLACEMENT.

- CONCRETE (cont'd):**
8. CONCRETE SHALL NOT BE PUMPED THROUGH PIPE MADE OF ALUMINUM OR ALUMINUM ALLOYS. EQUIPMENT USED TO CONVEY CONCRETE FROM THE MIXER TO THE LOCATION OF THE FINAL PLACEMENT SHALL HAVE ADEQUATE CAPABILITIES TO ACHIEVE THE PLACEMENT REQUIREMENTS.
9. CONCRETE STRENGTH TEST SPECIMENS SHALL BE AT LEAST TWO 6 x 12 in. CYLINDERS OR AT LEAST THREE 4 x 8 in. CYLINDERS MADE FROM THE SAME SAMPLE OF CONCRETE. SAMPLING OF CONCRETE FOR STRENGTH TEST SPECIMENS SHALL BE IN ACCORDANCE WITH ASTM C172. CYLINDERS FOR STRENGTH TESTS SHALL BE MADE AND STANDARD-CURED IN ACCORDANCE WITH ASTM C31 AND TESTED IN ACCORDANCE WITH ASTM C39. THE TESTING AGENCY PERFORMING ACCEPTANCE TESTING SHALL COMPLY WITH ASTM C1017. ALL REPORTS OF ACCEPTANCE TESTS SHALL BE PROVIDED TO THE ENGINEER, CONTRACTOR, AND CONCRETE PRODUCER.
10. SAMPLES FOR PREPARING STRENGTH TEST SPECIMENS OF EACH CONCRETE MIXTURE PLACED EACH DAY SHALL BE TAKEN IN ACCORDANCE WITH THE FOLLOWING:
1. AT LEAST ONCE A DAY
 2. AT LEAST ONCE FOR EACH 150 yd³ OF CONCRETE
 3. AT LEAST ONCE FOR EACH 5,000 ft² OF SURFACE AREA FOR SLABS OR WALLS

11. IF THE TOTAL VOLUME OF CONCRETE IS SUCH THAT THE FREQUENCY OF TESTING OUTLINED ABOVE WOULD PROVIDE FEWER THAN FIVE STRENGTH TESTS FOR A GIVEN CONCRETE MIXTURE, STRENGTH TEST SPECIMENS SHALL BE MADE FROM AT LEAST 5 RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE BATCHES ARE USED.
12. GROUT BASE PLATES WITH A NONSHRINKABLE, NON-METALLIC GROUT CONFORMING TO ASTM C1107. THE GROUT SPECIFIED COMPRESSIVE STRENGTH IS 5000 PSI AT 28 DAYS. DO NOT PRE-GROUT BASEPLATES.
13. POST-INSTALLED ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. POST-INSTALLED ADHESIVE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI).
14. FOOTING DESIGN IS BASED A SOIL BEARING PRESSURE OF 3,000 PSF AS PROVIDED IN THE GEOTECHNICAL REPORT PREPARED BY ECS SOUTHEAST, LLP. ECS PROJECT NO. 22-29394, DATED SEPTEMBER 3rd, 2020. SOIL BEARING PRESSURE IS TO BE VERIFIED BY THE GEOTECHNICAL ENGINEER, OR HIS REPRESENTATIVE PRIOR TO CONSTRUCTION.

15. DO NOT PLACE CONDUIT OR PIPES IN ANY CONCRETE ELEMENTS INCLUDING SLABS, BEAMS, WALLS, OR COLUMNS UNLESS INDICATED IN THE STRUCTURAL DOCUMENTS OR APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
16. TILT-UP PANELS AND TILT-UP PANEL EMBEDS SHALL BE DELEGATED DESIGNED BY THE TILT-UP CONTRACTOR FOR THE DESIGN LOADS SHOWN IN THESE DOCUMENTS. SHOP DETAILS BEARING THE SEAL OF AN ENGINEER LICENSED IN THE PROJECT UPLIFT, SHOWING PANEL DIMENSIONS, REINFORCEMENT DETAILS, AND EMBED LOCATIONS & DETAILS ARE TO BE PROVIDED BY THE CONTRACTOR FOR REVIEW PRIOR TO CONSTRUCTION.
17. DURING ERECTION, TILT-UP PANELS SHALL BE SUPPORTED AND BRACED TO ENSURE PROPER ALIGNMENT, STRENGTH, AND STABILITY UNTIL PERMANENT CONNECTIONS ARE COMPLETED. DESIGN AND DETAILS OF LIFTING DEVICES, EMBEDMENTS, AND RELATED REINFORCEMENT REQUIRED TO RESIST TEMPORARY ERECTION AND BRACING LOADS SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW.

18. CONTRACTOR SHALL DESIGN, FABRICATE, INSTALL, AND REMOVE ALL FORMWORK. DESIGN OF FORMWORK SHALL CONSIDER METHOD OF CONCRETE PLACEMENT, RATE OF CONCRETE PLACEMENT, CONSTRUCTION LOADS, AND REASONABLE AVOIDANCE OF DAMAGE TO PREVIOUSLY CONSTRUCTED MEMBERS.

- STEEL:**
1. SPECIFICATIONS: STRUCTURAL STEEL IS DESIGNED, AND SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH:
1. **THE STEEL CONSTRUCTION MANUAL, 14TH EDITION**
PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC.

2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
- | STRUCTURAL STEEL W-SHAPES | ASTM A992 | F _y = 50ksi |
|-------------------------------|------------------------|------------------------|
| MISC. BARS, PLATES, C's & L's | ASTM A36 | F _y = 36ksi |
| RECT. STRUCTURAL TUBING | ASTM A500 GRADE B or C | F _y = 48ksi |
| ROUND STRUCTURAL TUBING | | |

THE USER SHALL MAINTAIN A RECORD OF ALL CHANGES TO THIS DRAWING SET.

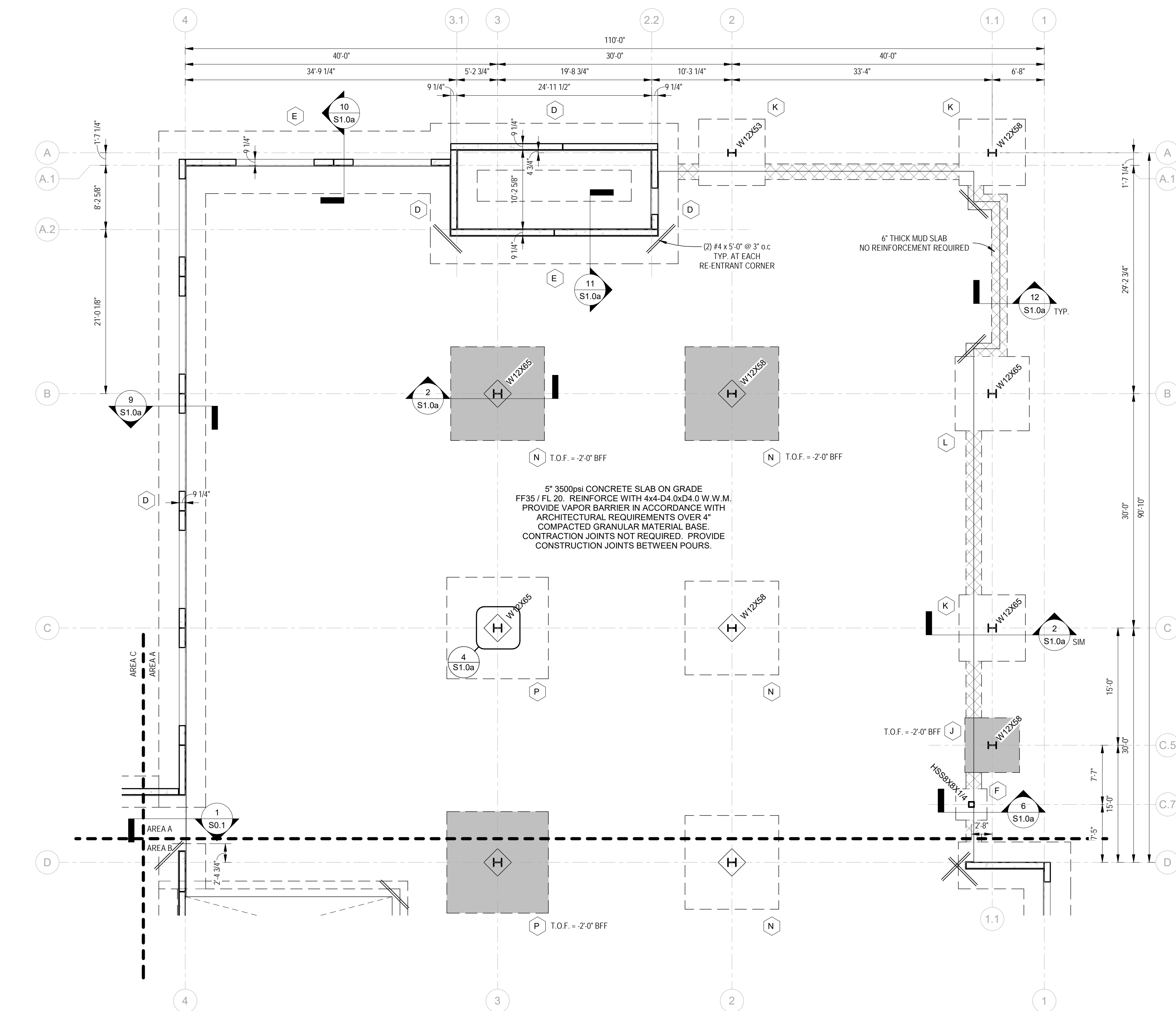
E

D

C

B

A



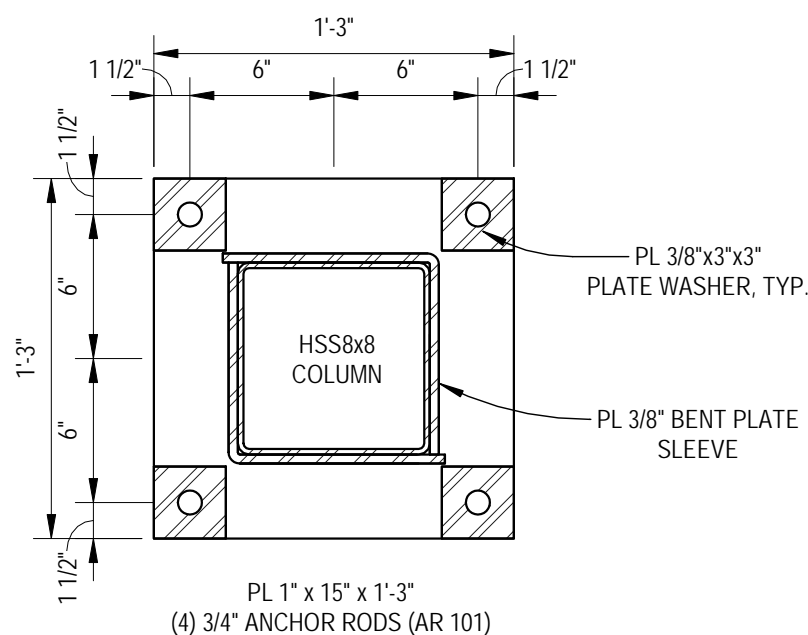
1 FOUNDATION PLAN - AREA A (TOWER)
1/8" = 1'-0"

T.O.F. = -1'-4" BFF, U.N.O

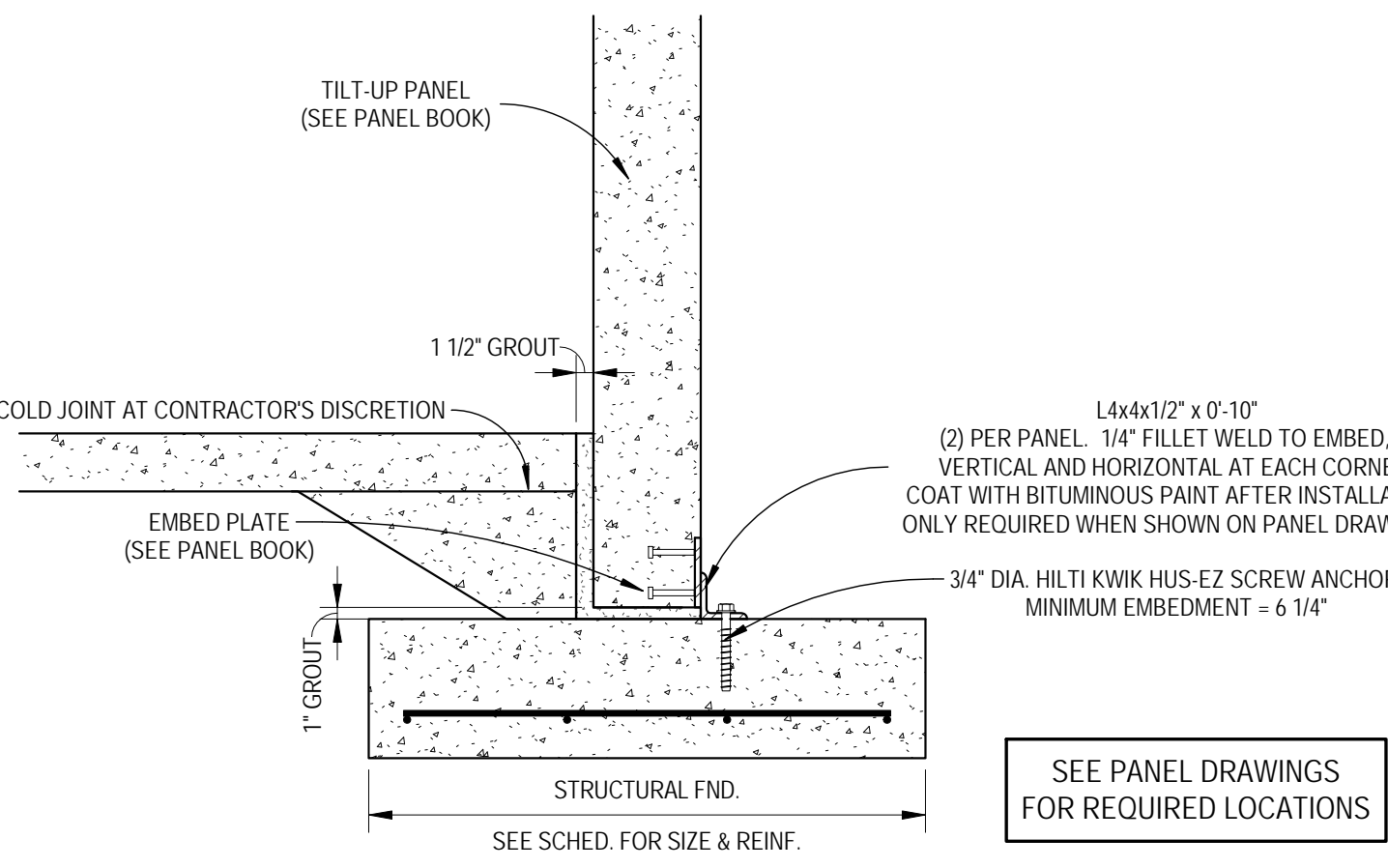
PANEL THICKNESS = 9 1/4", U.N.O

FOUNDATION SCHEDULE					
MARK	WIDTH	LENGTH	THICKNESS	REINFORCING	COMMENTS
A	3'-6"		1'-0"	(5) #5's CONT. w/ #5 TIES @ 12" o.c.	
B	4'-0"		1'-0"	(5) #5's CONT. w/ #5 TIES @ 12" o.c.	
C	5'-0"		1'-0"	(6) #5's CONT. w/ #5 TIES @ 12" o.c.	
D	6'-0"		1'-6"	(9) #6's CONT. w/ #5 TIES @ 18" o.c.	
E	8'-0"		1'-6"	(9) #7's CONT. w/ #5 TIES @ 12" o.c.	
F	4'-0"	4'-0"	1'-0"	(5) #5's EW BOTTOM	
G	6'-0"	6'-0"	1'-0"	(7) #5's EW T&B	
H	6'-6"	6'-6"	1'-6"	(7) #6's EW BOTTOM	
J	7'-0"	7'-0"	1'-2"	(8) #5's EW BOTTOM	
K	8'-6"	8'-6"	1'-4"	(9) #6's EW BOTTOM	
L	9'-6"	9'-6"	1'-6"	(10) #6's EW BOTTOM	
M	10'-0"	10'-0"	1'-8"	(11) #6's EW BOTTOM	
N	12'-0"	12'-0"	2'-0"	(14) #6's EW BOTTOM	
P	13'-0"	13'-0"	2'-2"	(14) #7's EW BOTTOM	
Q	9'-0"		1'-6"	(10) #5's CONT. w/ #5 TIES @ 16" o.c. T&B	

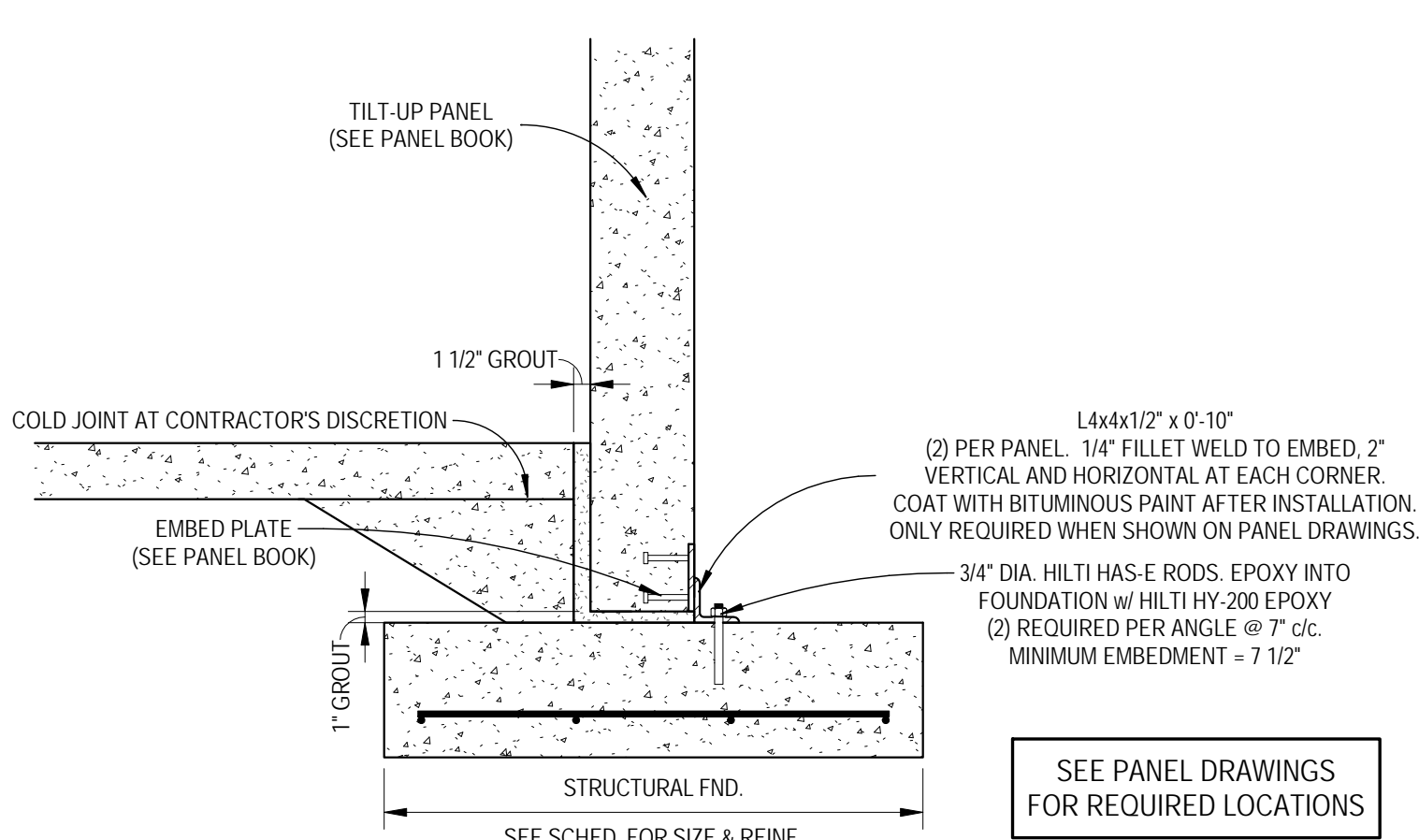
8 BASE PLATE "B" - HSS8x8
1 1/2" = 1'-0"



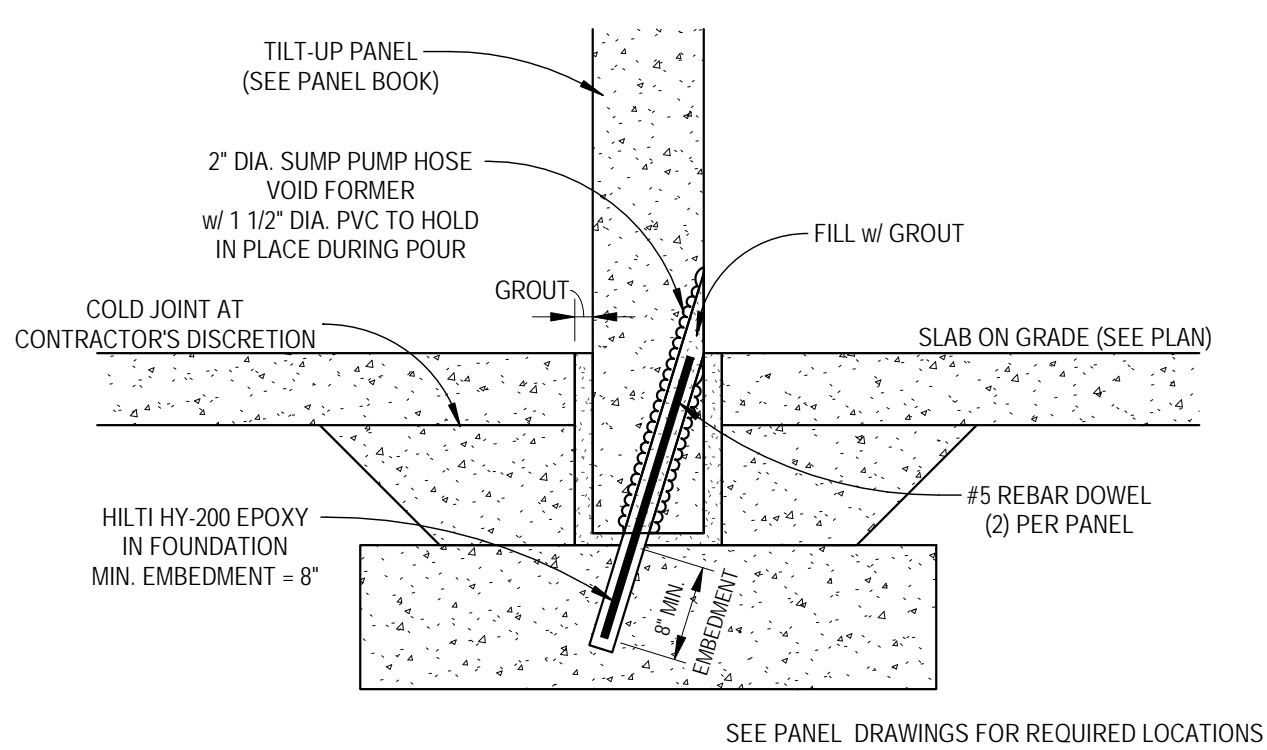
9 EXTERIOR WALL FOUNDATION - SCREW ANCHOR
3/4" = 1'-0"



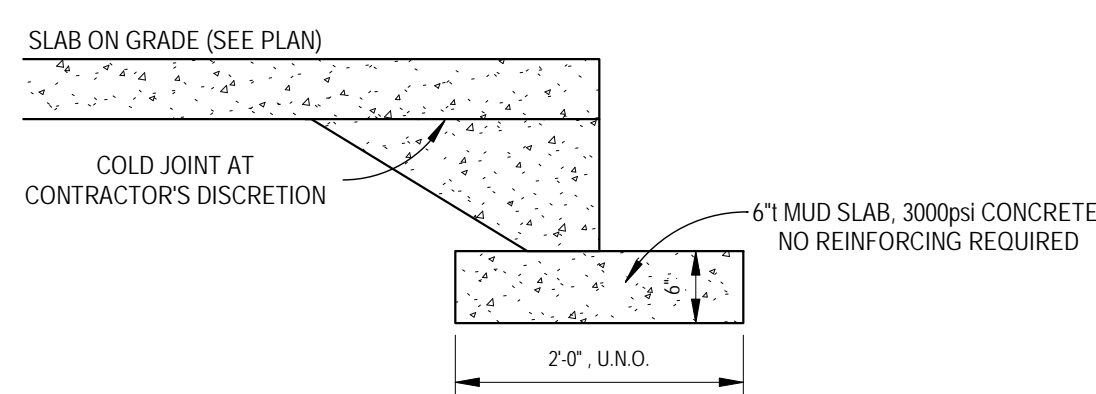
10 EXTERIOR WALL FOUNDATION - HAS-E ROD & EPOXY
3/4" = 1'-0"



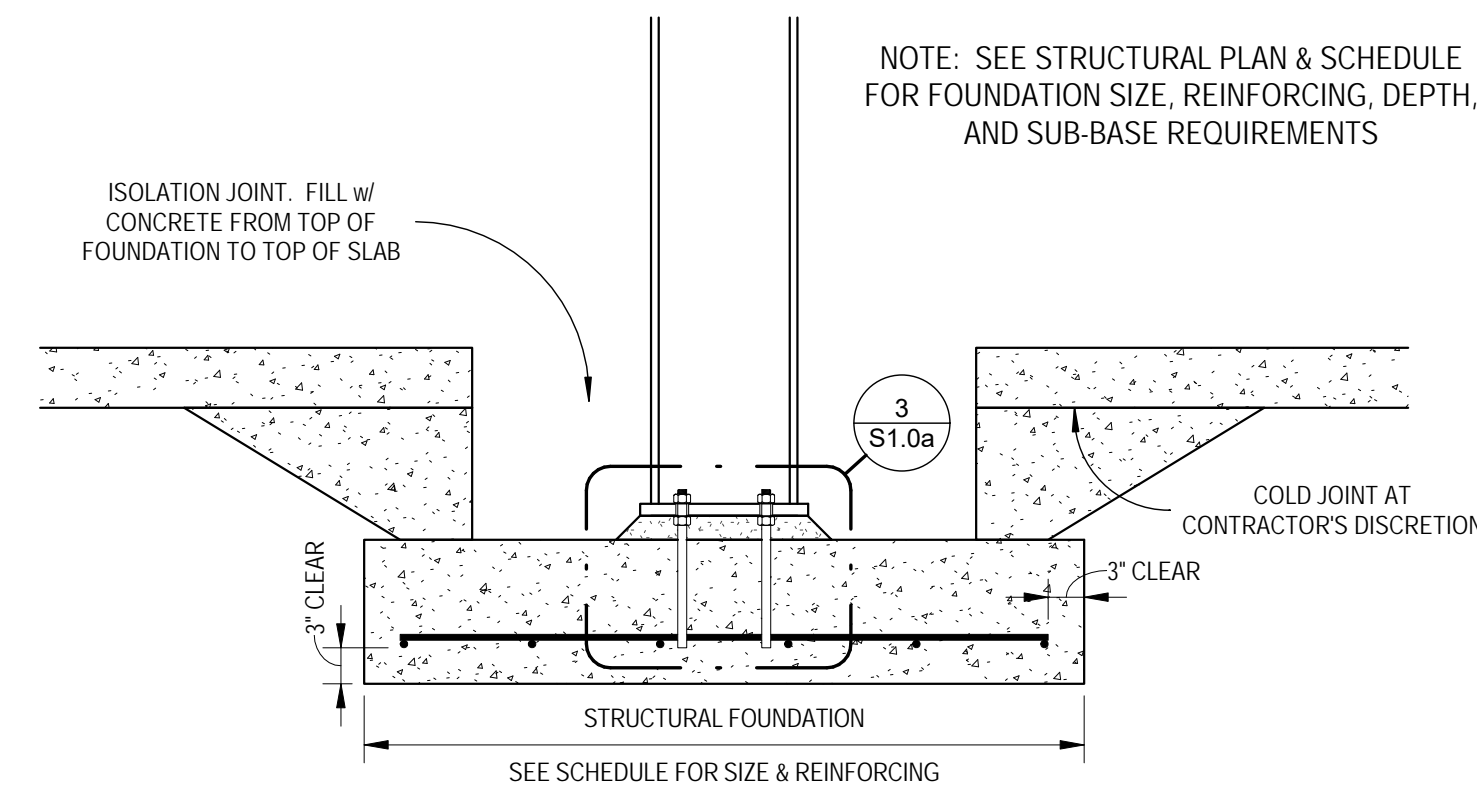
11 INTERIOR PANEL TO FOUNDATION CONNECTION
3/4" = 1'-0"



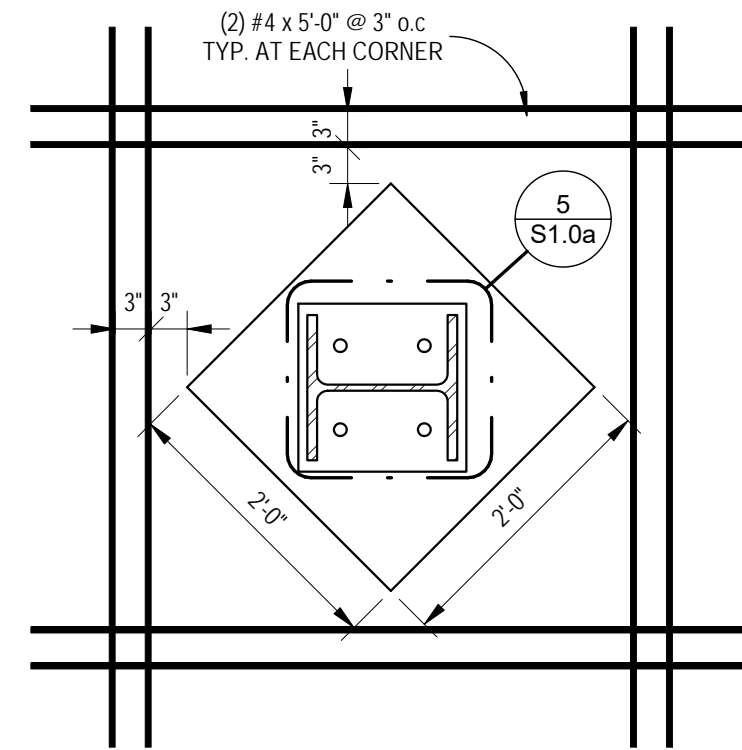
12 MUD SLAB DETAIL
3/4" = 1'-0"



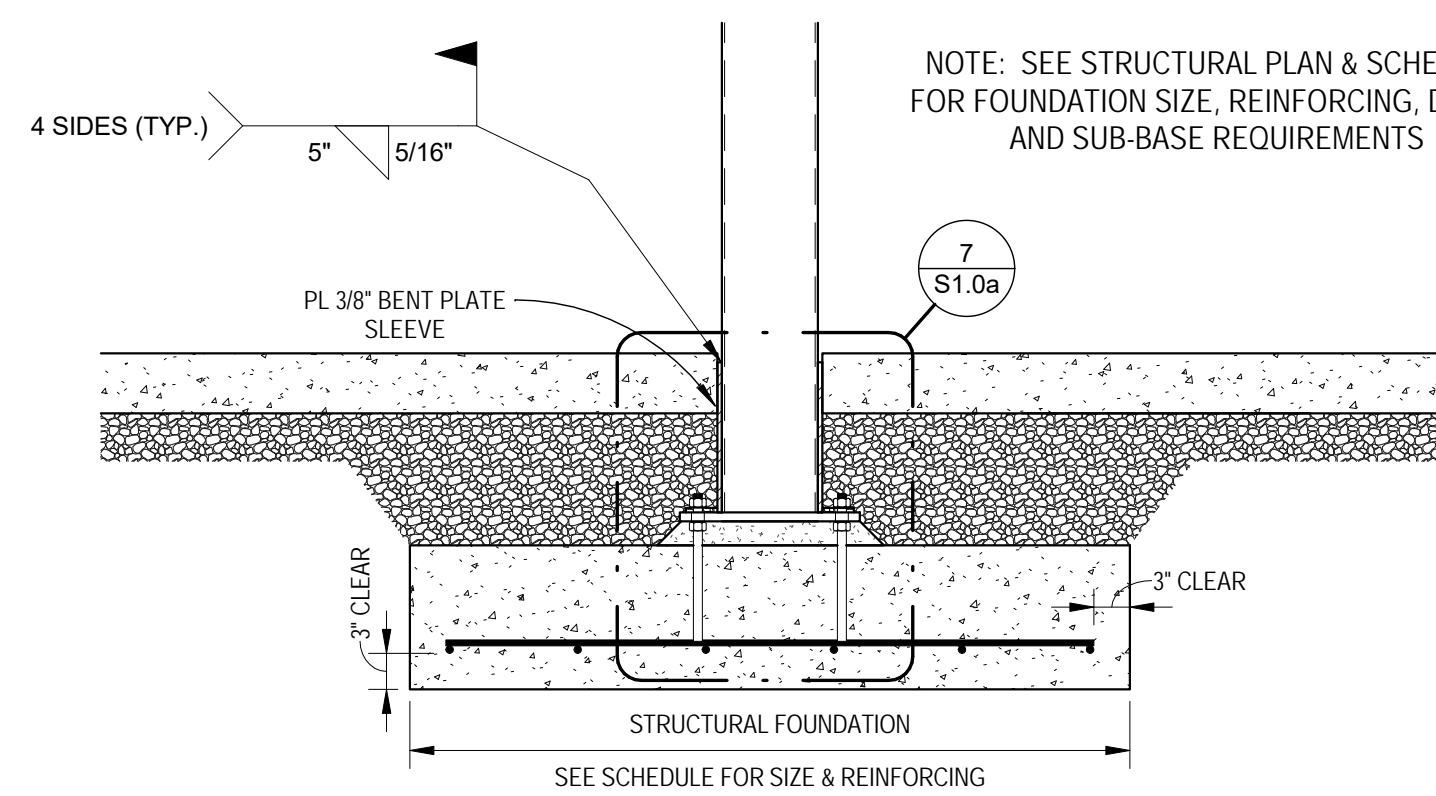
2 INTERIOR COLUMN FOUNDATION
3/4" = 1'-0"



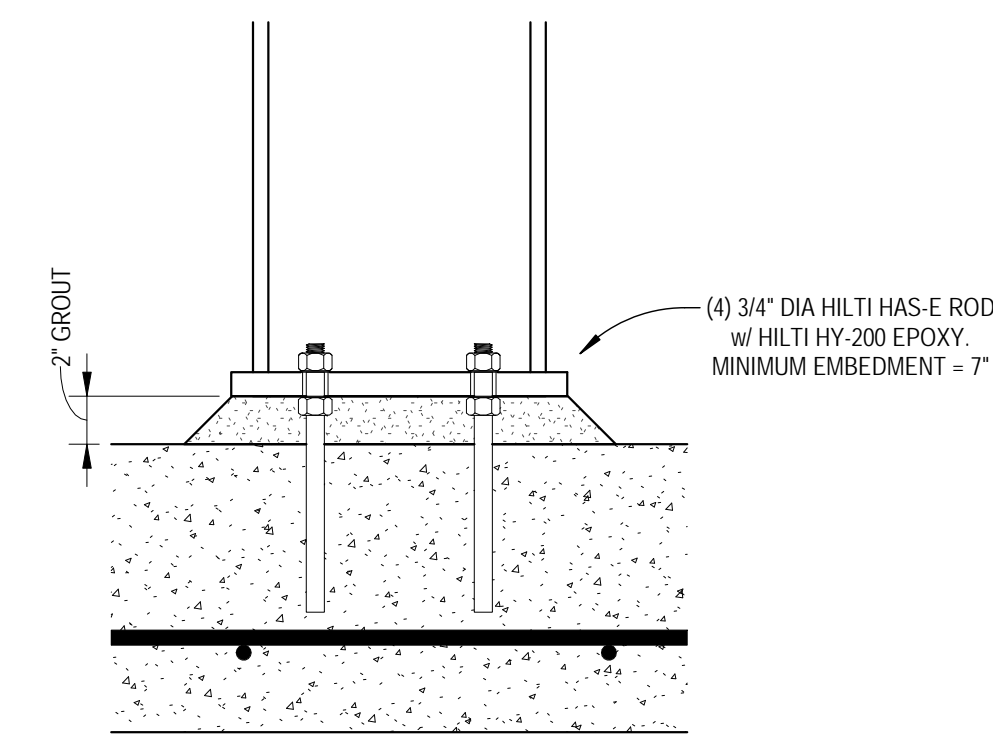
4 COLUMN ISOLATOR - RE-ENTRANT REINF.
3/4" = 1'-0"



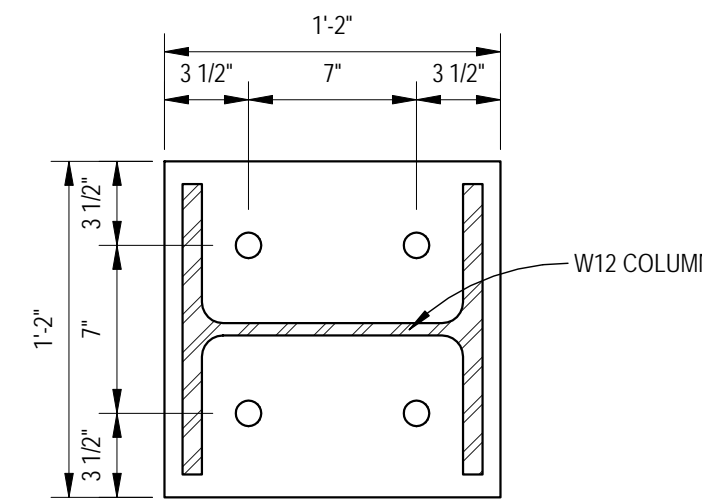
6 INTERIOR COLUMN FOUNDATION - SLEEVE
3/4" = 1'-0"



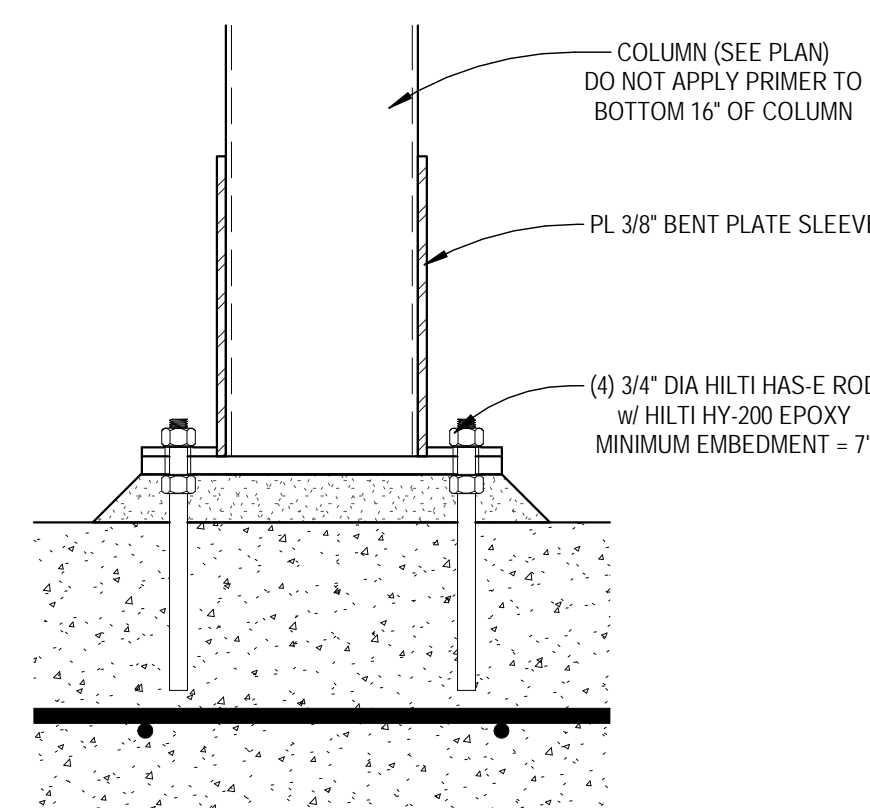
3 ANCHOR ROD DETAIL
1 1/2" = 1'-0"



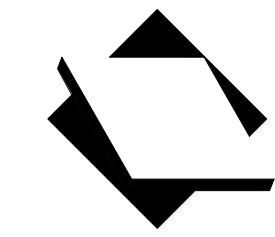
5 BASE PLATE "A" - TOWER W12
1 1/2" = 1'-0"



7 ANCHOR ROD DETAIL - SLEEVE
1 1/2" = 1'-0"



NEW HANOVER COUNTY



CITADEL
CONTRACTORS, INC.
3405 APEX PEAKWAY
APEX, N.C. 27502
TEL 1-919-362-5122
FAX 1-919-362-6910

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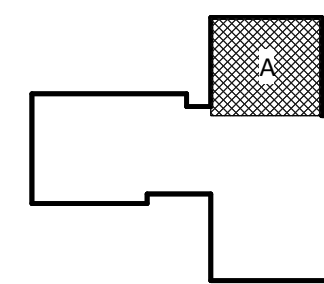


NEW HANOVER COUNTY
GOVERNMENT CENTER
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

CITADEL PROJECT: C2015

A	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET

KEY PLAN:



SHEET NAME:
FOUNDATION PLAN -
AREA A (TOWER)

ORIG SUBMISSION: 2020.10.16
CURRENT REV.: 2020.10.16

DRAWN BY: M. FREW
APPROVED BY: CEJ
SHEET:

S1.0a

C+S PERMIT SET

THE USER SHALL PROVIDE ALL
NECESSARY INFORMATION AND
PERMITS TO THE CONTRACTOR.

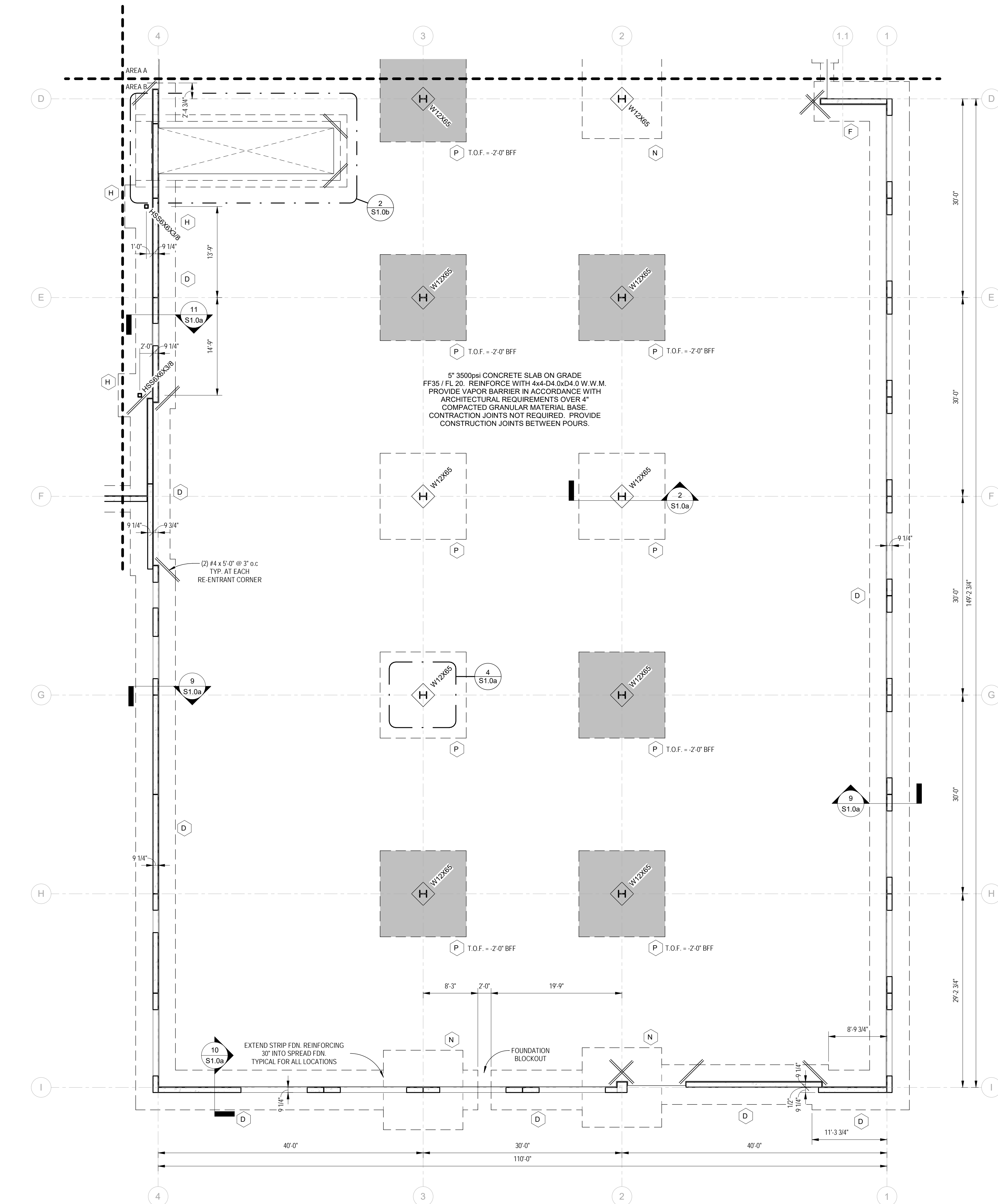
E

D

C

B

A



1 FOUNDATION PLAN - AREA B (TOWER)
1/8" = 1'-0"

T.O.F. = -1'-4" BFF, U.N.O

PANEL THICKNESS = 9 1/4", U.N.O

FOUNDATION SCHEDULE					
MARK	WIDTH	LENGTH	THICKNESS	REINFORCING	COMMENTS
A	3'-6"		1'-0"	(5) #5's CONT. w/ #5 TIES @ 12" o.c.	
B	4'-0"		1'-0"	(5) #5's CONT. w/ #5 TIES @ 12" o.c.	
C	5'-0"		1'-0"	(6) #5's CONT. w/ #5 TIES @ 12" o.c.	
D	6'-0"		1'-6"	(9) #6's CONT. w/ #5 TIES @ 18" o.c.	
E	8'-0"		1'-6"	(9) #7's CONT. w/ #5 TIES @ 12" o.c.	
F	4'-0"	4'-0"	1'-0"	(5) #5's EW BOTTOM	
G	6'-0"	6'-0"	1'-0"	(7) #5's EW T&B	
H	6'-6"	6'-6"	1'-6"	(7) #6's EW BOTTOM	
J	7'-0"	7'-0"	1'-2"	(8) #5's EW BOTTOM	
K	8'-6"	8'-6"	1'-4"	(9) #6's EW BOTTOM	
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M	10'-0"	10'-0"	1'-8"	(11) #6's EW BOTTOM	
N	12'-0"	12'-0"	2'-0"	(14) #6's EW BOTTOM	
P	13'-0"	13'-0"	2'-2"	(14) #7's EW BOTTOM	
Q	9'-0"		1'-6"	(10) #5's CONT. w/ #5 TIES @ 16" o.c. T&B	

1

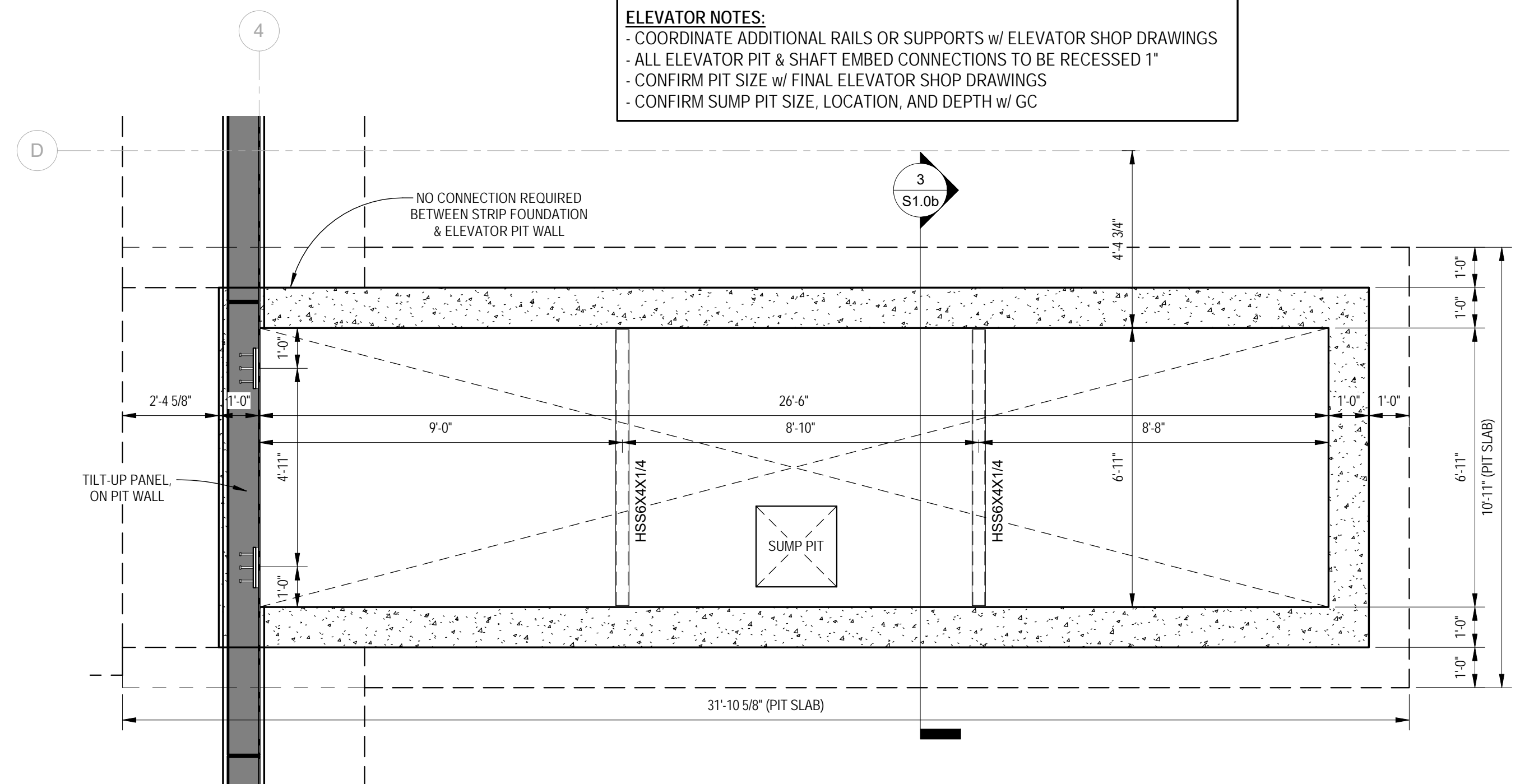
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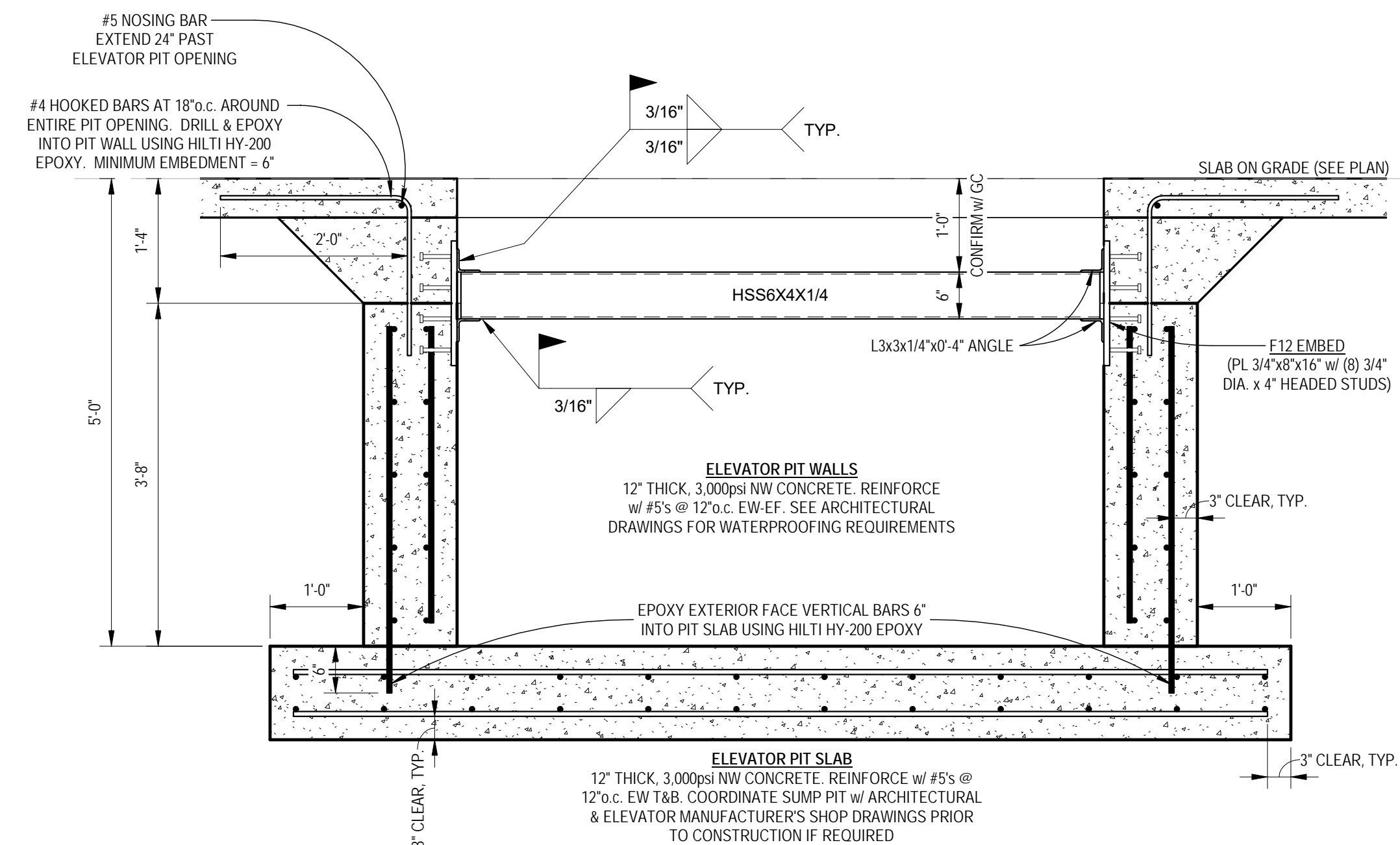
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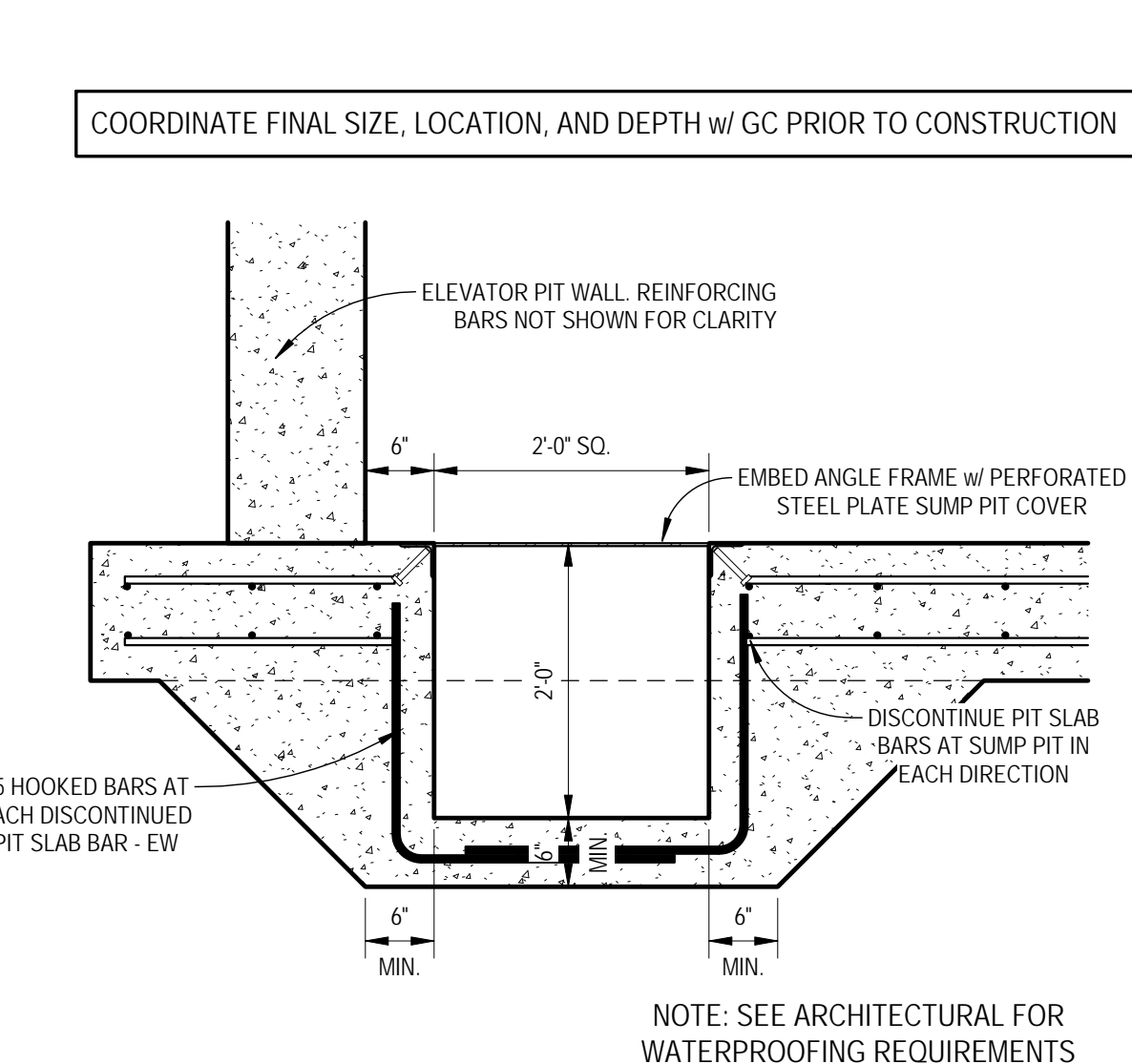
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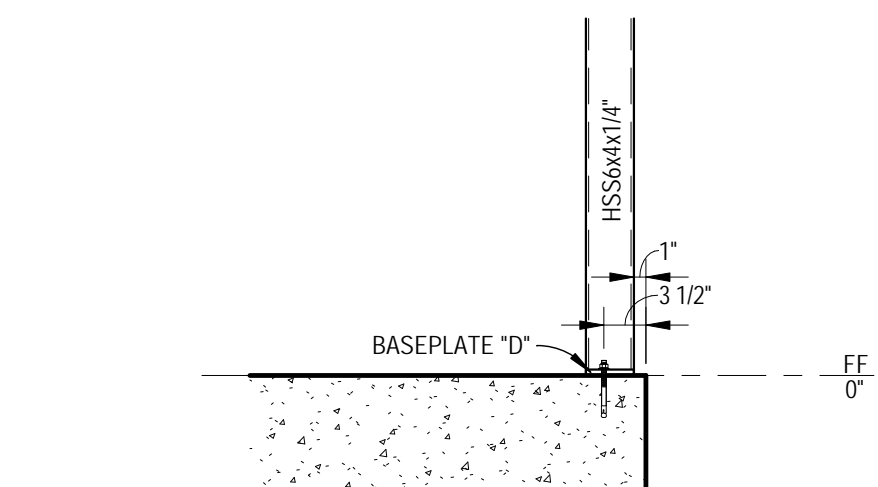
2 ELEVATOR PIT PLAN
3/8" = 1'-0"



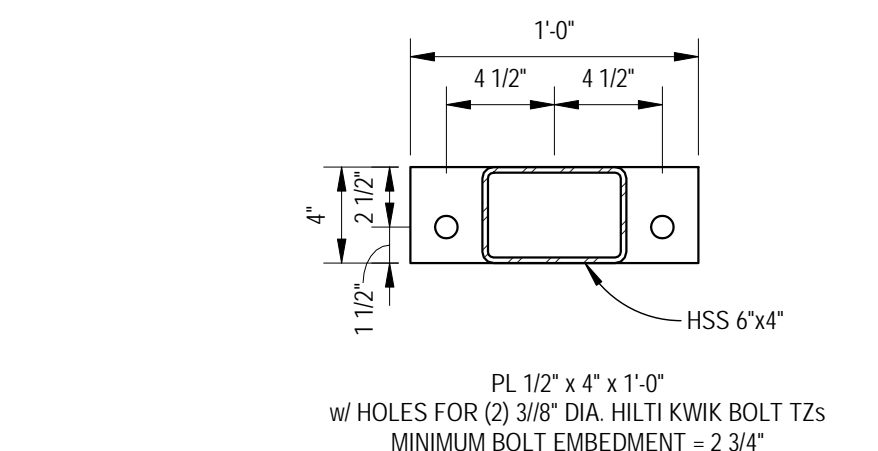
3 ELEVATOR PIT - SECTION
3/4" = 1'-0"



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



5 HSS6x4 RAIL CONNECTION AT S.O.G.
3/4" = 1'-0"

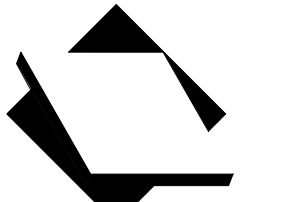


6 BASE PLATE "D" - HSS6x4
1 1/2" = 1'-0"

ELEVATOR NOTES:
- COORDINATE ADDITIONAL RAILS OR SUPPORTS w/ ELEVATOR SHOP DRAWINGS
- ALL ELEVATOR PIT & SHAFT EMBED CONNECTIONS TO BE RECESSED 1"
- CONFIRM PIT SIZE w/ FINAL ELEVATOR SHOP DRAWINGS
- CONFIRM SUMP PIT SIZE, LOCATION, AND DEPTH w/ GC



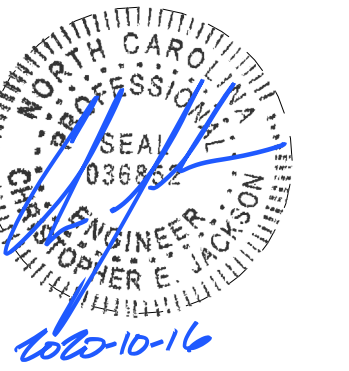
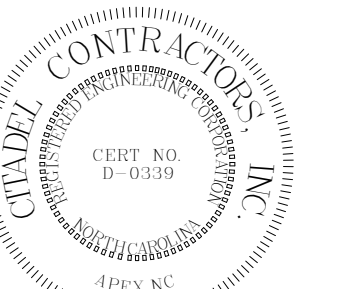
NEW HANOVER COUNTY



CITADEL
CONTRACTORS INC.

3405 APEX PEAKWAY
APEX, N.C. 27502
TEL 1-919-362-5122
FAX 1-919-362-6910

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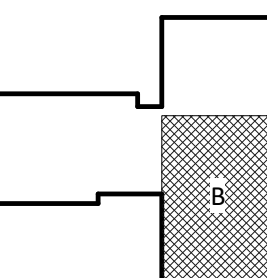


NEW HANOVER COUNTY
GOVERNMENT CENTER
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

CITADEL PROJECT: C2015

A	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET

KEY PLAN:



SHEET NAME:
FOUNDATION PLAN -
AREA B (TOWER)

ORIG SUBMISSION: 2020.10.16
CURRENT REV.: 2020.10.16

DRAWN BY: M. FREW
APPROVED BY: CEJ
SHEET:

S1.0b

C+S PERMIT SET

USE SHOWN ABOVE & BACKS OF FLOORING & THIS DRAWING FOR CONSTRUCTION

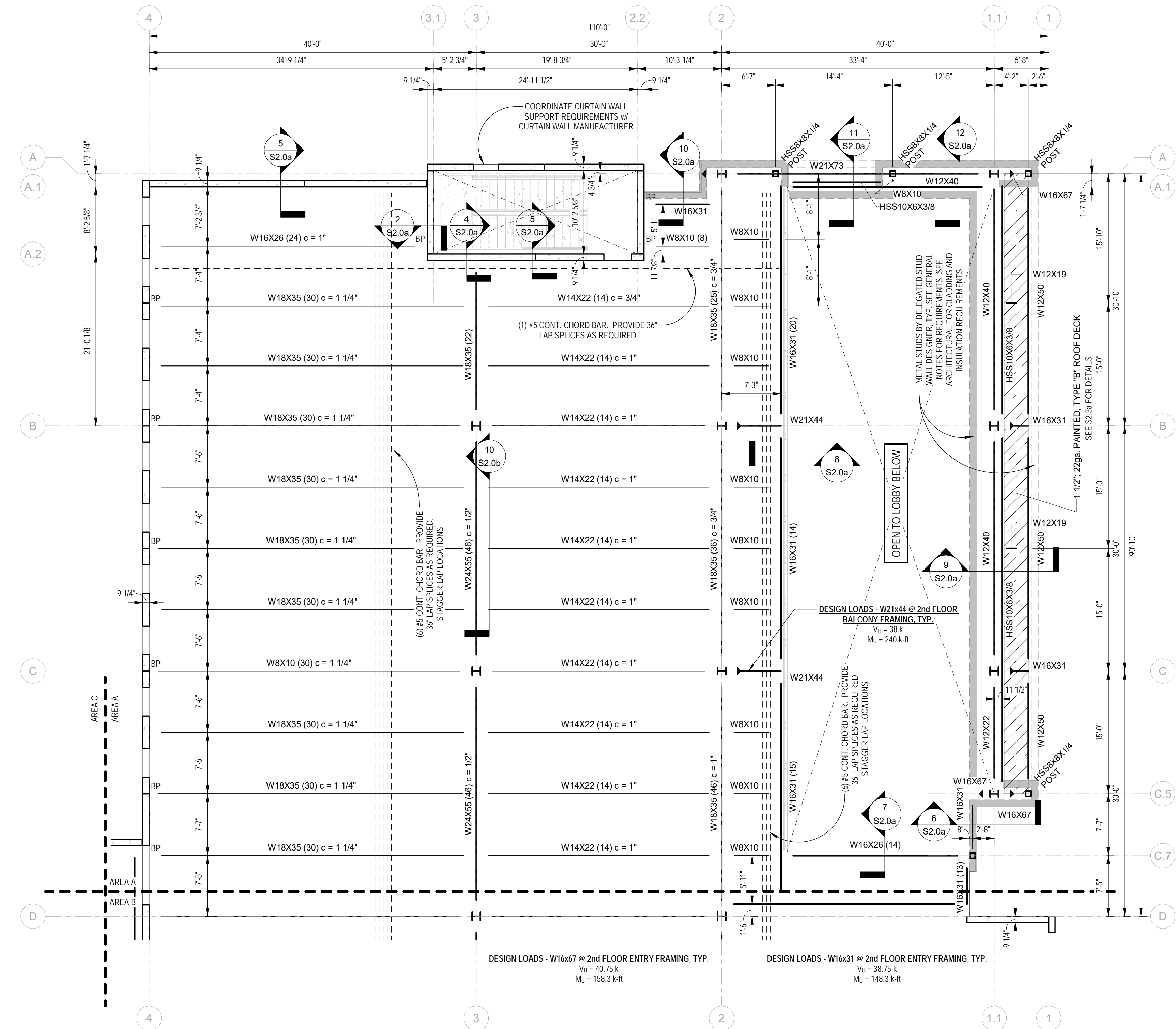
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D

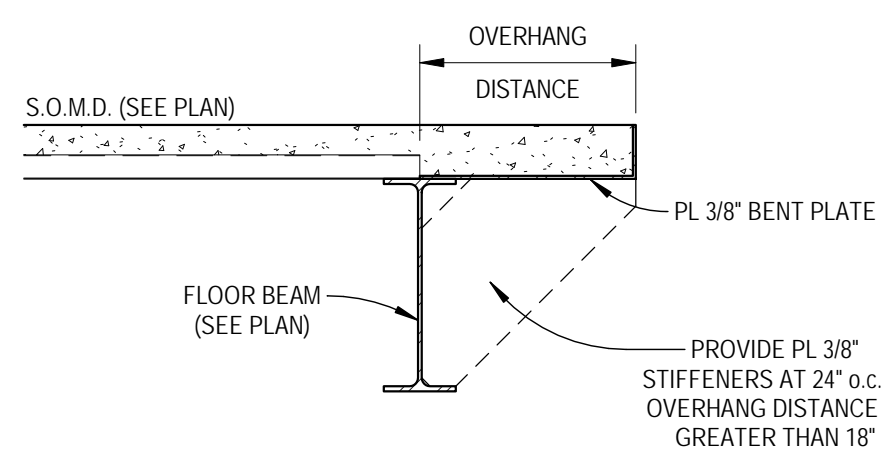
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B

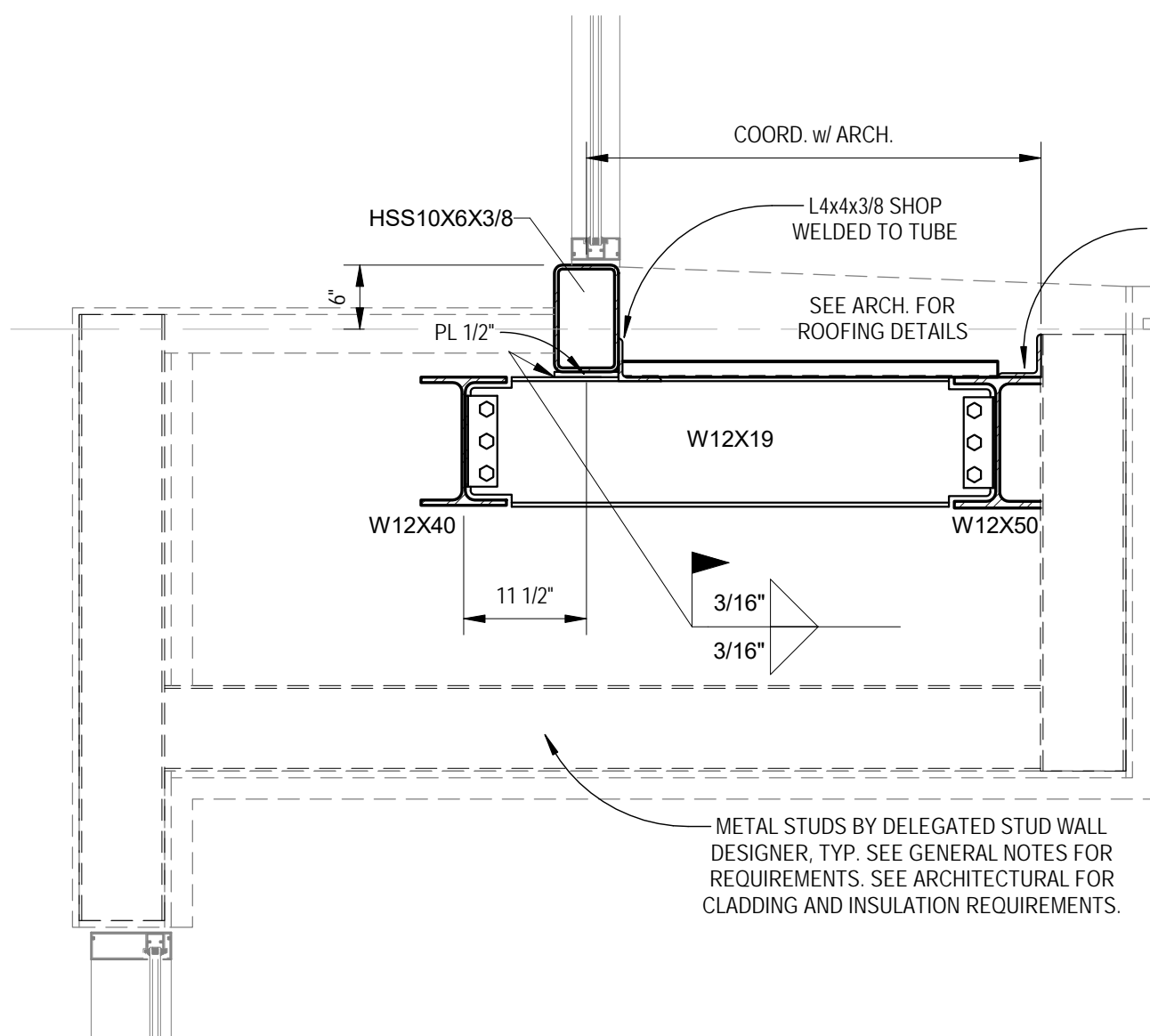
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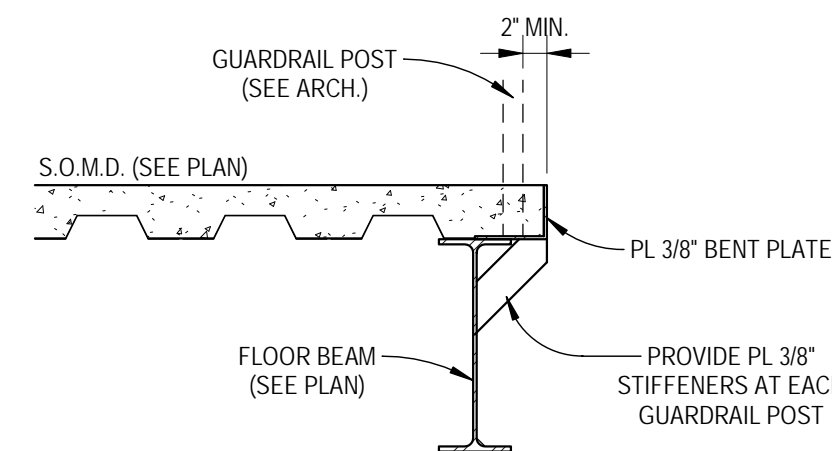
1 2ND FLOOR FRAMING PLAN
1/8" = 1'-0"



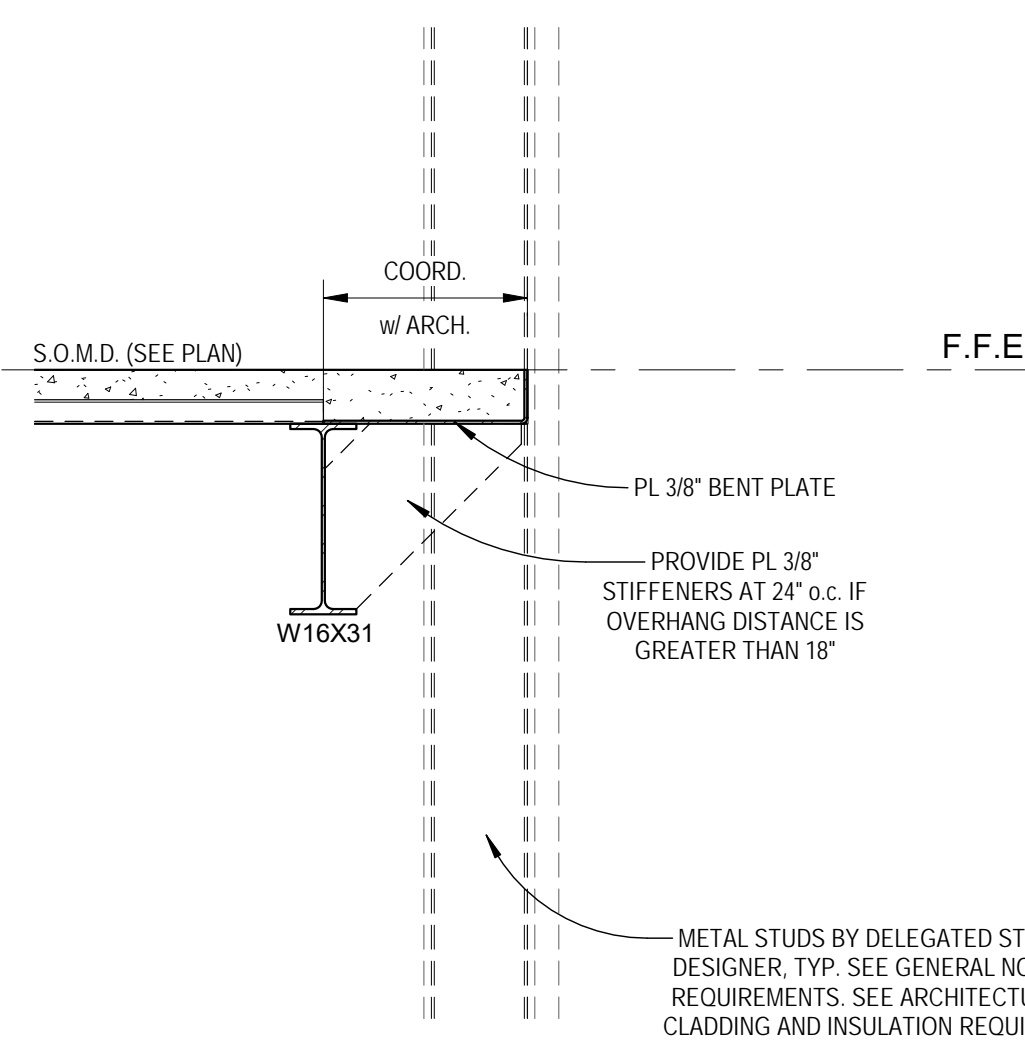
7 S.O.M.D. EDGE DETAIL
3/4" = 1'-0"



9 FRAMING DETAIL - ROOF OVERHANG & SILL AT 2nd FLR STOREFRONT
3/4" = 1'-0"



8 S.O.M.D. EDGE DETAIL AT GUARDRAIL
3/4" = 1'-0"



10 FRAMING DETAIL - SOMD AT EXTERIOR MTL. STUD
3/4" = 1'-0"

DESIGN NOTES:

UNDERSIDE OF DECK (TOP OF STEEL) = EL. 16'-3 1/2" AFF. U.N.O.

LIVE LOAD = 80 PSF
DEAD LOAD = 65 PSF

MAXIMUM LIVE LOAD DEFLECTION = L/360

2" 20ga G-80 GALVANIZED COMPOSITE FLOOR DECK
MINIMUM 3 SPAN CONDITION

2 1/2" NORMAL WEIGHT CONCRETE COVER, U.N.O.
TOTAL SLAB THICKNESS = 4 1/2", U.N.O.

ELEVATED SLAB TO BE REINFORCED WITH 6x6-D1.4x1.4 W.W.M. OR MACROFIBER @ 4.0lbs/cy.
PROVIDE #4 NEGATIVE REINFORCING OVER GIRDERS AS SHOWN IN DETAILS

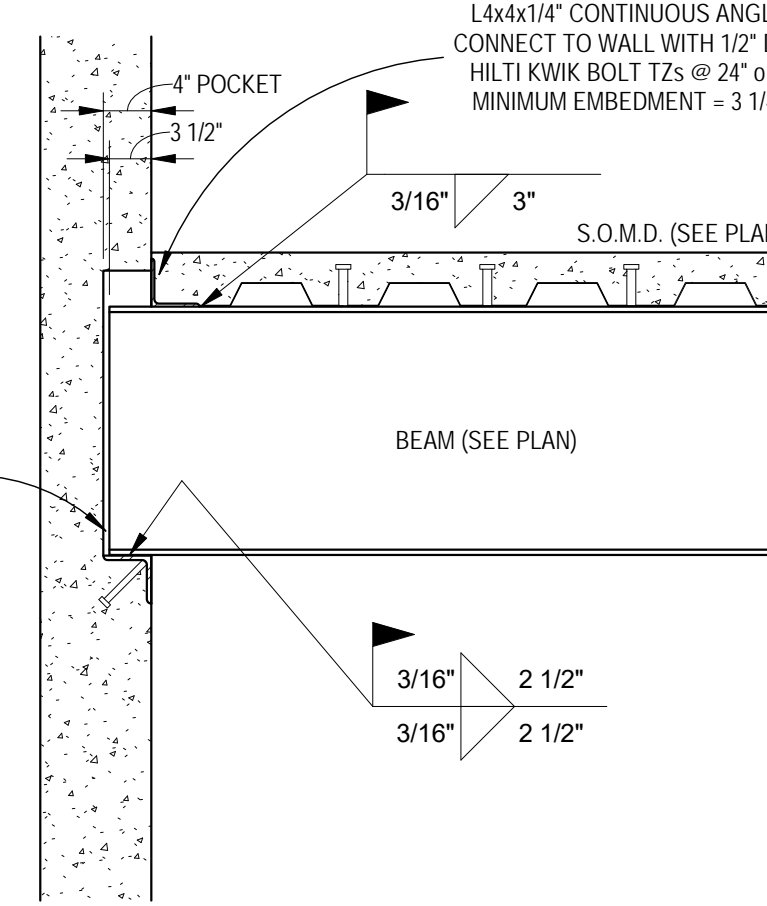
ALL SHEAR STUDS ARE TO BE PLACED AT UNIFORM SPACING ON EACH DESIGNATED BEAM

"BP" DESIGNATES CONNECTIONS TO TILT-UP PANELS REQUIRING PLATES, SEE DETAIL 2 ON S2.0a

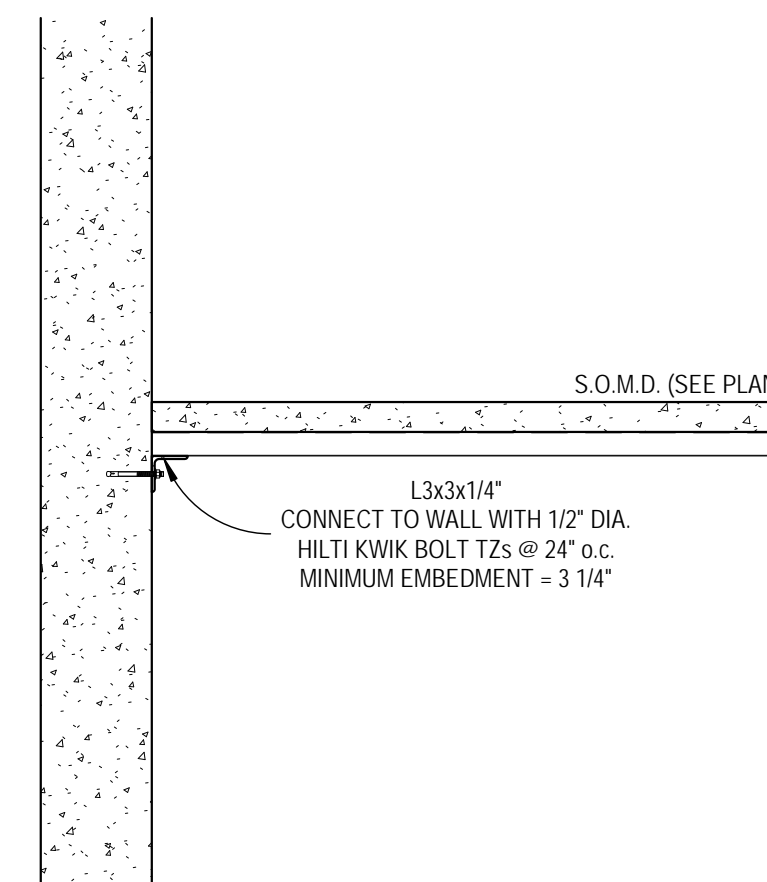
ALL DECK IS TO BE FASTENED TO STEEL FRAMING USING 5/8" DIA. PUDDLE WELDS ON A 36x4 PATTERN. SIDELAPS TO BE FASTENED WITH HILTI S-SLO-C-01 M HWH OR HILTI S-SLO-C-02 M HWH SIDELAP CONNECTORS @ 12" o.c. DECK IS TO BE FASTENED TO PERIMETER OF BUILDING @ 6" o.c.

ALL FLOOR OPENINGS NOTED WITH "O" TO BE FRAMED WITH MINIMUM 4x4x1/4" ANGLES. THESE OPENINGS ARE TO BE DECKED OVER WITH THE OPENING PERIMETER FORMED BEFORE CONCRETE IS POURED. METAL DECK IS TO BE REMOVED BY OTHERS WHEN OPENINGS ARE REQUIRED. ALL OTHER OPENING EDGES ARE TO BE FORMED WITH 1/4" BEAT PLATES SHOP WELDED TO BEAMS AND DO NOT REQUIRE DECK

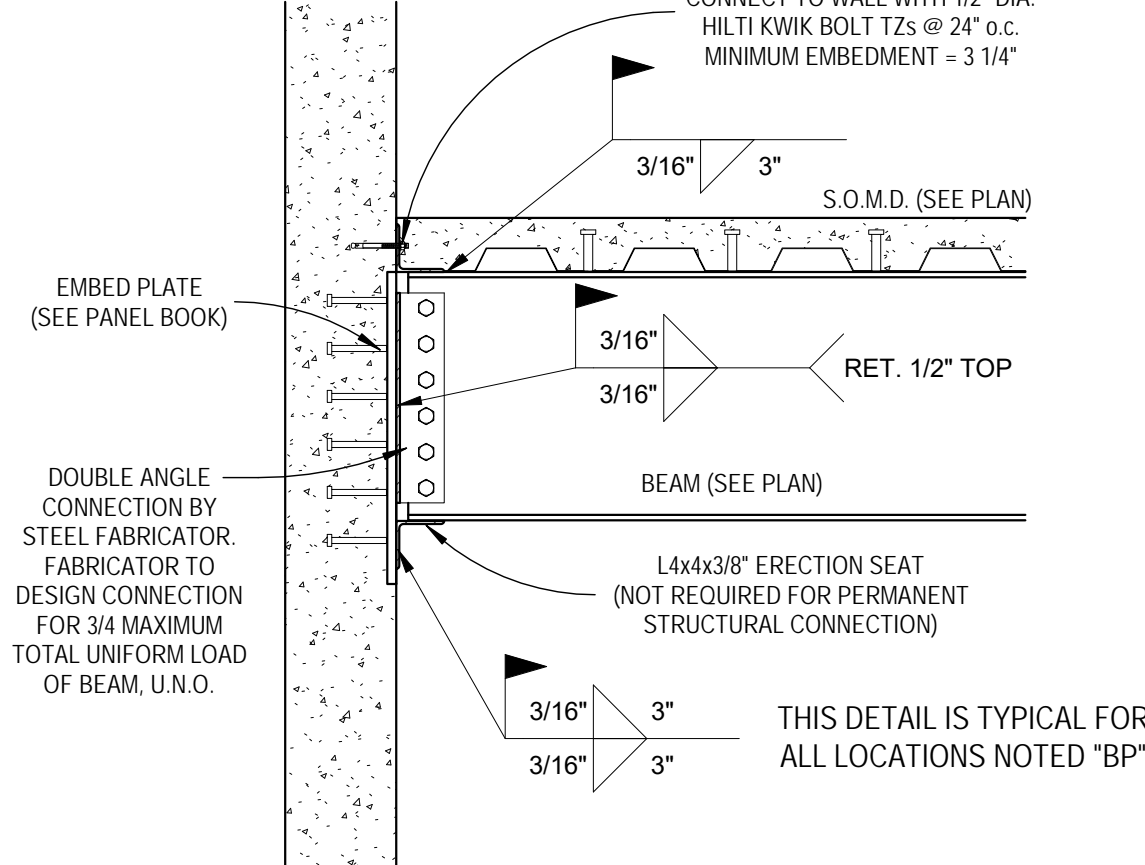
BEAM DESIGNATION
REQUIRED # OF 3/4" DIA. x 3 1/2" SHEAR STUDS PER BEAM



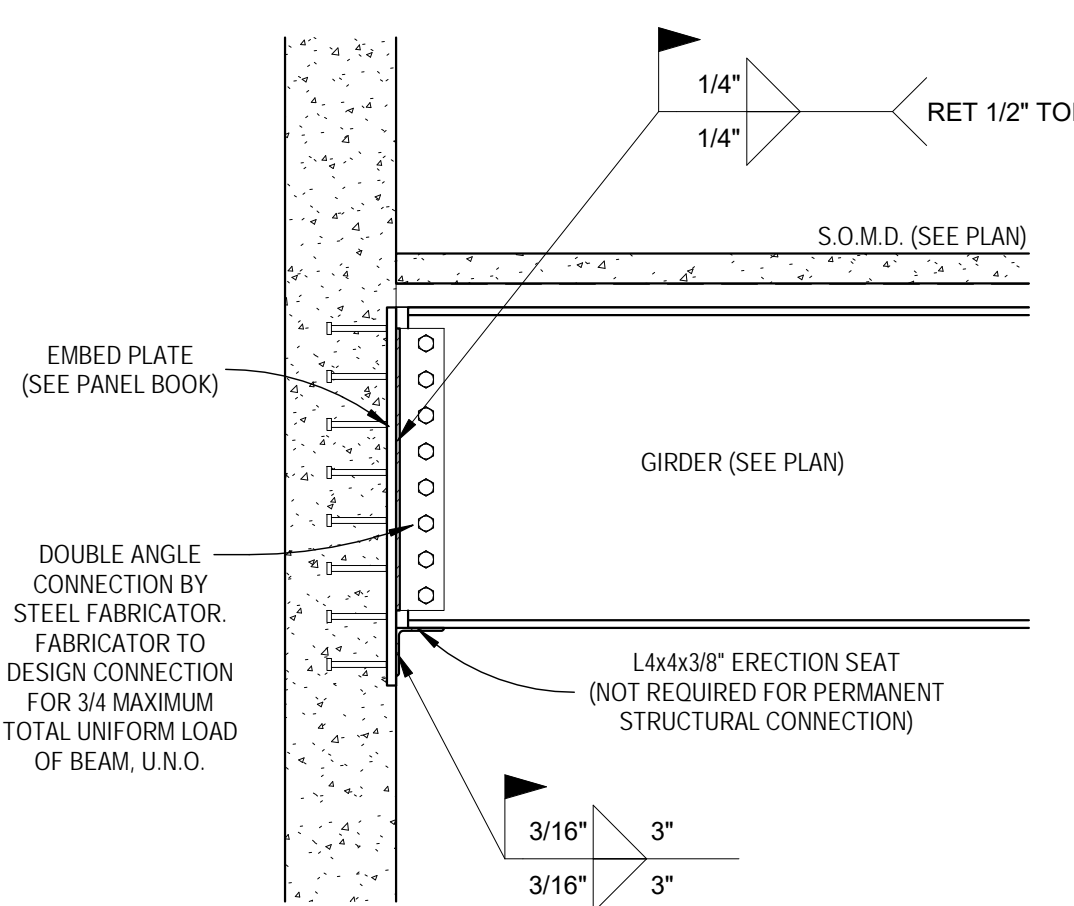
3 FLOOR BEAM TO TILT-UP WALL POCKET
3/4" = 1'-0"



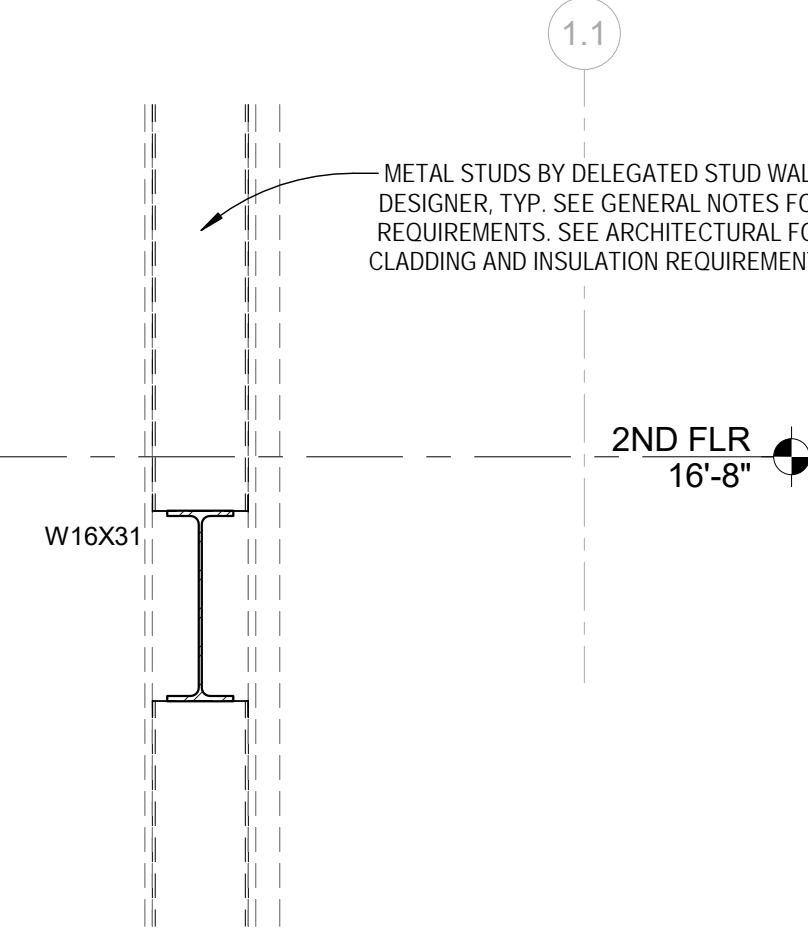
5 FLOOR DECK TO TILT-UP WALL
3/4" = 1'-0"



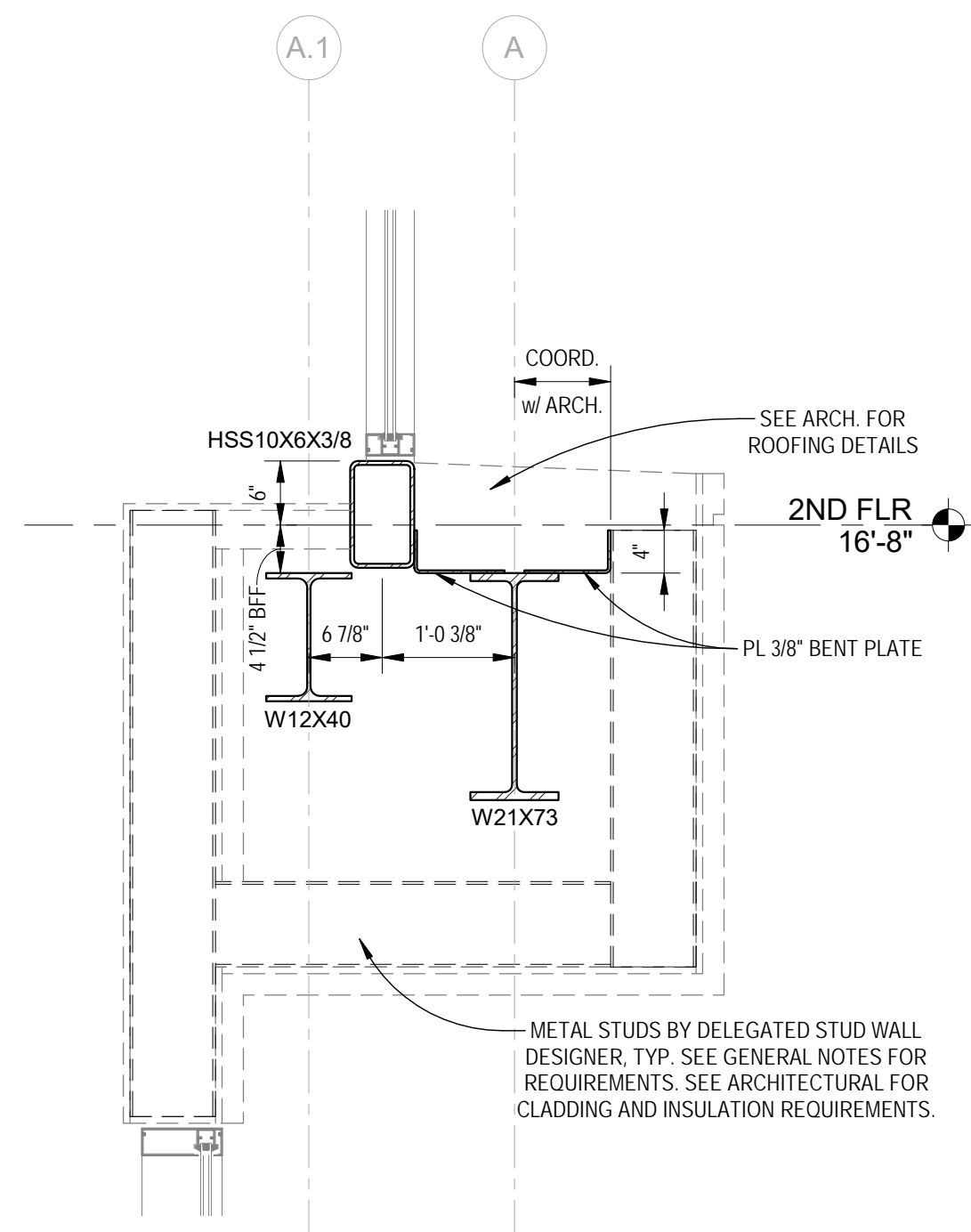
2 FLOOR BEAM TO TILT-UP WALL PLATE
3/4" = 1'-0"



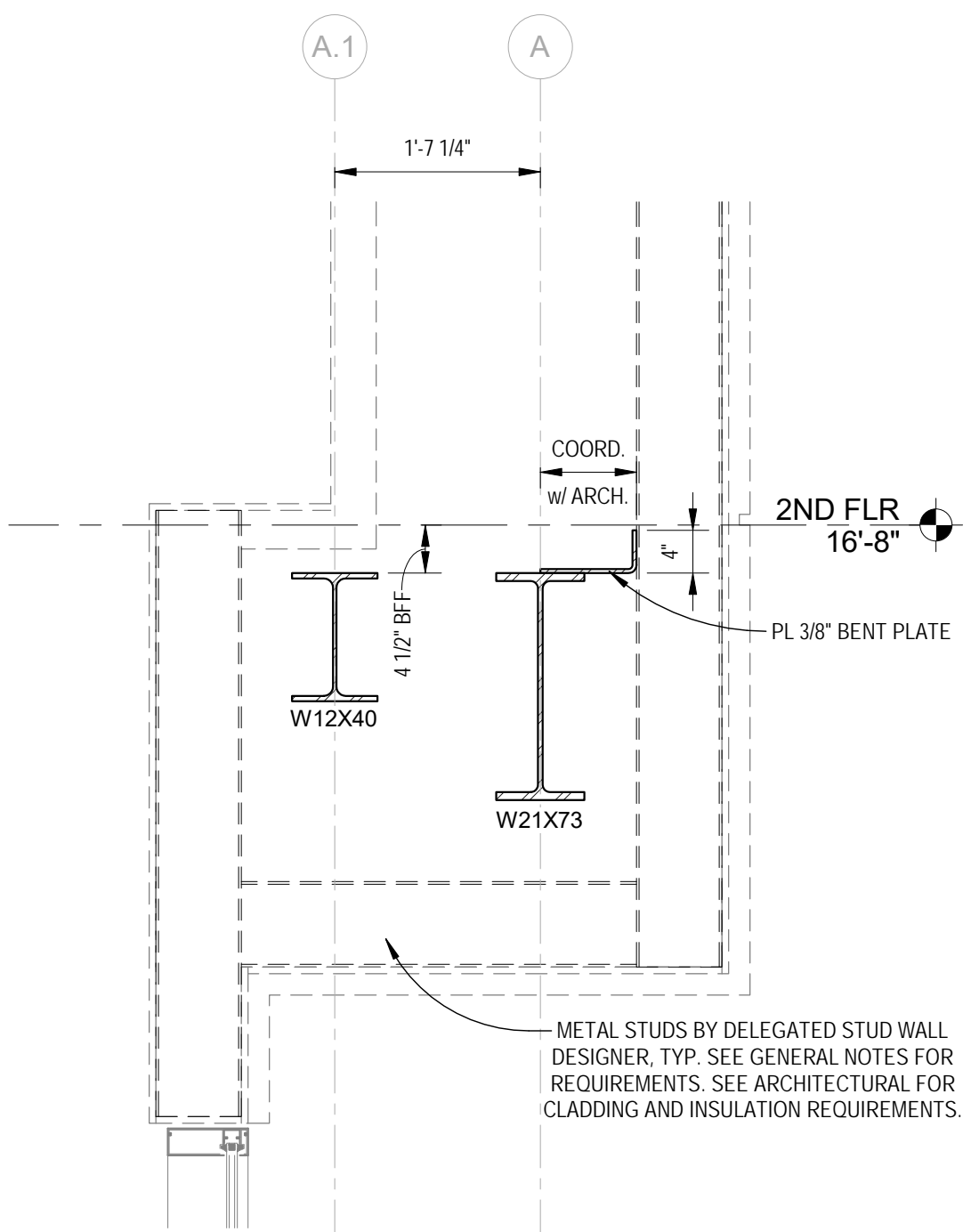
4 FLOOR GIRDER TO TILT-UP WALL PLATE
3/4" = 1'-0"



6 FRAMING DETAIL - EXT. STUD WALL AT W16x31
3/4" = 1'-0"



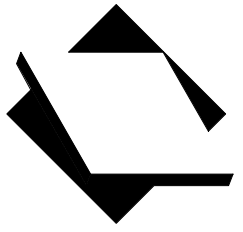
11 FRAMING DETAIL - SILL AT 2nd FLR STOREFRONT
3/4" = 1'-0"



12 FRAMING DETAIL - EXTERIOR WALL OVERHANG AT 2nd FLR
3/4" = 1'-0"



NEW HANOVER COUNTY



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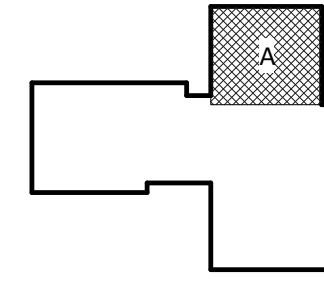
DAVID E. JACKSON
REGISTERED PROFESSIONAL ENGINEER
NO. 03562
EXPIRATION DATE 12/31/2024
2020-10-10

NEW HANOVER COUNTY
GOVERNMENT CENTER
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

CITADEL PROJECT: C2015

A	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET

KEY PLAN:



SHEET NAME:
2nd FLOOR
FRAMING PLAN -
AREA A (TOWER)

ORIG SUBMISSION: 2020.10.16
CURRENT REV.: 2020.10.16

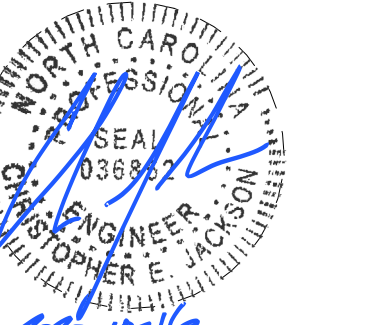
DRAWN BY: M. FREW
APPROVED BY: CEJ
SHEET:

S2.0a

C+S PERMIT SET



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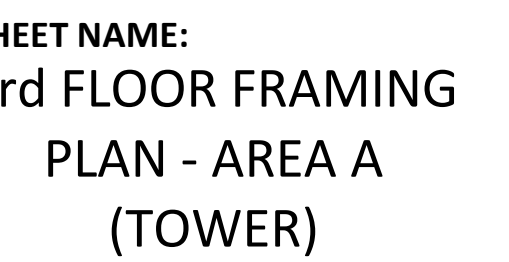


WILMINGTON, NC 28403

CITIADEL PROJECT: C2015

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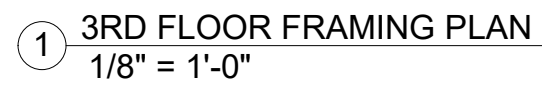
KEY PLAN:



DRAWN BY: M. FREW
 APPROVED BY: CEJ
 SHEET:

52.1a

+S PERMIT SET



DESIGN NOTES:

UNDERSIDE OF DECK (TOP OF STEEL) = EL. 30' - 11 1/2" AFF, U.N.O.

LIVE LOAD = 80 PSF
DEAD LOAD = 65 PSF

MAXIMUM LIVE LOAD DEFLECTION = $L/360$

2"; 20ga. G-60 GALVANIZED COMPOSITE FLOOR DECK
MINIMUM 3 SPAN CONDITION
2 1/2" NORMAL WEIGHT CONCRETE COVER, U.N.O.
TOTAL SLAB THICKNESS = 4 1/2", U.N.O.

ELEVATED SLAB TO BE REINFORCED WITH 6x6-D1.4xD1.4 W.W.M. OR MACROFIBER @ 4.0lbs/cy.
PROVIDE #4 NEGATIVE REINFORCING OVER GIRDERS AS SHOWN IN DETAILS

ALL SHEAR STUDS ARE TO BE PLACED AT UNIFORM SPACING ON EACH DESIGNATED BEAM
"BP" DESIGNATES CONNECTIONS TO TILT-UP PANELS REQUIRING PLATES, SEE DETAIL 2 ON S2.0a

ALL DECK IS TO BE FASTENED TO STEEL FRAMING USING 5/8" DIA. PUDDLE WELDS ON A 36/4 PATTERN. SIDELAPS TO BE FASTENED WITH HILTI S-SLC-01 M HWH OR HILTI S-SLC-02 M HWH SIDELAP CONNECTORS @ 12" o.c. DECK IS TO BE FASTENED TO PERIMETER OF BUILDING @ 6" o.c.

ALL FLOOR OPENINGS NOTED WITH * TO BE FRAMED WITH MINIMUM 4x4x1/4" ANGLES. THESE OPENINGS ARE TO BE DECKED OVER WITH THE OPENING PERIMETER FORMED BEFORE CONCRETE IS POURED. METAL DECK IS TO BE REMOVED BY OTHERS WHEN OPENINGS ARE REQUIRED. ALL OTHER OPENING EDGES ARE TO BE FORMED WITH 1/4" BENT PLATES SHOP WELDED TO BEAMS AND DO NOT REQUIRE DECK.

W18X35 (30) c = 1"

BEAM DESIGNATION

REQUIRED AMOUNT OF CAMBER

REQUIRED # OF 3/4" DIA. x 3 1/2" SHEAR STUDS PER BEAM





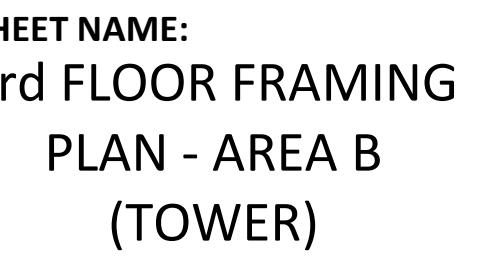
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WILMINGTON, NC 28403

CITADEL PROJECT: C2013

KEY PLAN:

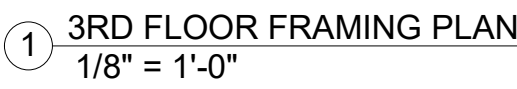


DRAWN BY: M. FREW
 APPROVED BY: CEJ

SHEET:

52.1b

+S PERMIT SET



DESIGN NOTES:

UNDERSIDE OF DECK (TOP OF STEEL) = EL. 30' - 11 1/2" AFF, U.N.O.

LIVE LOAD = 80 PSF
DEAD LOAD = 65 PSF

MAXIMUM LIVE LOAD DEFLECTION = $L/360$

2"; 20ga. G-60 GALVANIZED COMPOSITE FLOOR DECK

2 1/2" NORMAL WEIGHT CONCRETE COVER, U.N.O.
TOTAL SLAB THICKNESS = 4 1/2", U.N.O.

ELEVATED SLAB TO BE REINFORCED WITH 6x6-D1.4xD1.4 W.W.M. OR MACROFIBER @ 4.0lbs/cy.
PROVIDE #4 NEGATIVE REINFORCING OVER GIRDERS AS SHOWN IN DETAILS

ALL SHEAR STUDS ARE TO BE PLACED AT UNIFORM SPACING ON EACH DESIGNATED BEAM

"BP" DESIGNATES CONNECTIONS TO TILT-UP PANELS REQUIRING PLATES, SEE DETAIL 2 ON S2.0a

ALL DECK IS TO BE FASTENED TO STEEL FRAMING USING 5/8" DIA. PUDDLE WELDS ON A 36/4 PATTERN. SIDELAPS TO BE FASTENED WITH HILTI S-SLC-01 M HWH OR HILTI S-SLC-02 M HWH SIDELAP CONNECTORS @ 12" o.c. DECK IS TO BE FASTENED TO PERIMETER OF BUILDING @ 6" o.c.

ALL FLOOR OPENINGS NOTED WITH * TO BE FRAMED WITH MINIMUM 4x4x1/4" ANGLES. THESE OPENINGS ARE TO BE DECKED OVER WITH THE OPENING PERIMETER FORMED BEFORE CONCRETE IS POURED. METAL DECK IS TO BE REMOVED BY OTHERS WHEN OPENINGS ARE REQUIRED. ALL OTHER OPENING EDGES ARE TO BE FORMED WITH 1/4" BENT PLATES SHOP WELDED TO BEAMS AND DO NOT REQUIRE DECK.

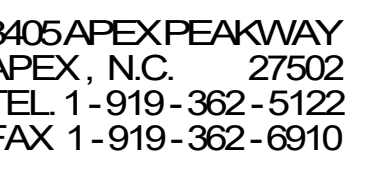
W18X35 (30) c = 1"

BEAM DESIGNATION

REQUIRED # OF 3/4" DIA. x 3 1/2" SHEAR STUDS PER BEAM

REQUIRED AMOUNT OF CAMBER

A



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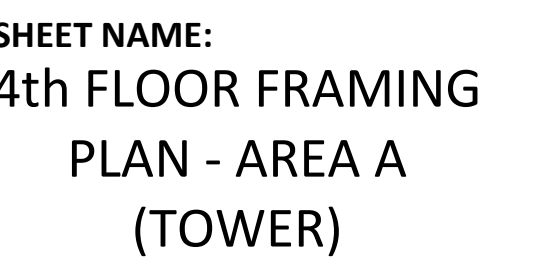


WILMINGTON, NC 28403

CITIADEL PROJECT: C2015

Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET

KEY PLAN:

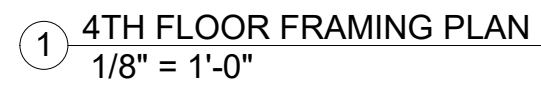


ORIG SUBMISSION: 2020.10.16
CURRENT REV.: 2020.10.16

DRAWN BY: M. FREW
APPROVED BY: CEJ
SHEET:

52.2a

C+S PERMIT SET



DESIGN NOTES:

UNDERSIDE OF DECK (TOP OF STEEL) = EL. 45' - 7 1/2" AFF, U.N.O.

LIVE LOAD = 80 PSF
DEAD LOAD = 65 PSF

MAXIMUM LIVE LOAD DEFLECTION = $L/360$

2"; 20ga. G-60 GALVANIZED COMPOSITE FLOOR DECK
MINIMUM 3 SPAN CONDITION
2 1/2" NORMAL WEIGHT CONCRETE COVER, U.N.O.
TOTAL SLAB THICKNESS = 4 1/2", U.N.O.

ELEVATED SLAB TO BE REINFORCED WITH 6x6-D1.4xD1.4 W.W.M. OR MACROFIBER @ 4.0lbs/cy.
PROVIDE #4 NEGATIVE REINFORCING OVER GIRDERS AS SHOWN IN DETAILS

ALL SHEAR STUDS ARE TO BE PLACED AT UNIFORM SPACING ON EACH DESIGNATED BEAM
"BP" DESIGNATES CONNECTIONS TO TILT-UP PANELS REQUIRING PLATES, SEE DETAIL 2 ON S2

ALL DECK IS TO BE FASTENED TO STEEL FRAMING USING 5/8" DIA. PUDDLE WELDS ON A 36/4 PATTERN. SIDELAPS TO BE FASTENED WITH HILTI S-SLC-01 M HWH OR HILTI S-SLC-02 M HWH SIDELAP CONNECTORS @ 12" o.c. DECK IS TO BE FASTENED TO PERIMETER OF BUILDING @ 6" o.c.

ALL FLOOR OPENINGS NOTED WITH * TO BE FRAMED WITH MINIMUM 4x4x1/4" ANGLES. THESE OPENINGS ARE TO BE DECKED OVER WITH THE OPENING PERIMETER FORMED BEFORE CONCRETE IS POURED. METAL DECK IS TO BE REMOVED BY OTHERS WHEN OPENINGS ARE REQUIRED. ALL OTHER OPENING EDGES ARE TO BE FORMED WITH 1/4" BENT PLATES SHOP WELDED TO BEAMS AND DO NOT REQUIRE DECK.

W18X35 (30) c = 1"

BEAM DESIGNATION

REQUIRED # OF 3/4" DIA. x 3 1/2" SHEAR STUDS PER BEAM

REQUIRED AMOUNT OF CAMBER

W18X35 (30) c = 1"

BEAM DESIGNATION _____ REQUIRED AMOUNT OF CAMBER _____

REQUIRED # OF 3/4" DIA. x 3 1/2" SHEAR STUDS PER BEAM _____



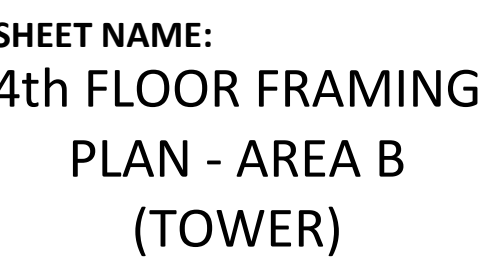
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GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

CITADEL PROJECT: C2015

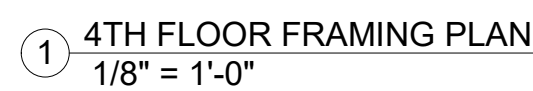
KEY PLAN:



DRAWN BY: M. FREW
APPROVED BY: CEJ
SHEET:

S2.2b

C+S PERMIT SET



DESIGN NOTES:

UNDERSIDE OF DECK (TOP OF STEEL) = EL. 45' - 7 1/2" AFF, U.N.O.

LIVE LOAD = 80 PSF
DEAD LOAD = 65 PSF

MAXIMUM LIVE LOAD DEFLECTION = $L/360$

2"; 20ga. G-60 GALVANIZED COMPOSITE FLOOR DECK

2 1/2" NORMAL WEIGHT CONCRETE COVER, U.N.O.

TOTAL SLAB THICKNESS = 4 1/2", U.N.O.

ELEVATED SLAB TO BE REINFORCED WITH 6x6-D1.4xD1.4 W.W.M. OR MACROFIBER @ 4.0lbs/cy.
PROVIDE #4 NEGATIVE REINFORCING OVER GIRDERS AS SHOWN IN DETAILS

ALL SHEAR STUDS ARE TO BE PLACED AT UNIFORM SPACING ON EACH DESIGNATED BEAM

"BP" DESIGNATES CONNECTIONS TO TILT-UP PANELS REQUIRING PLATES, SEE DETAIL 2 ON S2.0a

ALL DECK IS TO BE FASTENED TO STEEL FRAMING USING 5/8" DIA. PUDDLE WELDS ON A 36/4 PATTERN. SIDELAPS TO BE FASTENED WITH HILTI S-SLC-01 M HWH OR HILTI S-SLC-02 M HWH SIDELAP CONNECTORS @ 12" o.c. DECK IS TO BE FASTENED TO PERIMETER OF BUILDING @ 6" o.c.

ALL FLOOR OPENINGS NOTED WITH * TO BE FRAMED WITH MINIMUM 4x4x1/4" ANGLES. THESE OPENINGS ARE TO BE DECKED OVER WITH THE OPENING PERIMETER FORMED BEFORE CONCRETE IS POURED. METAL DECK IS TO BE REMOVED BY OTHERS WHEN OPENINGS ARE REQUIRED. ALL OTHER OPENING EDGES ARE TO BE FORMED WITH 1/4" BENT PLATES SHOP WELDED TO BEAMS AND DO NOT REQUIRE DECK.

W18X35 (30) c = 1"

BEAM DESIGNATION

REQUIRED # OF 3/4" DIA. x 3 1/2" SHEAR STUDS PER BEAM

REQUIRED AMOUNT OF CAMBER

W18X35 (30) c = 1'

- REQUIRED AMOUNT OF CAMBER

REQUIRED # OF 3/4" DIA. x 3 1/2"
SHEAR STUDS PER BEAM

THE USER SHALL MAINTAIN A RECORD OF ALL CHANGES TO THIS DRAWING.

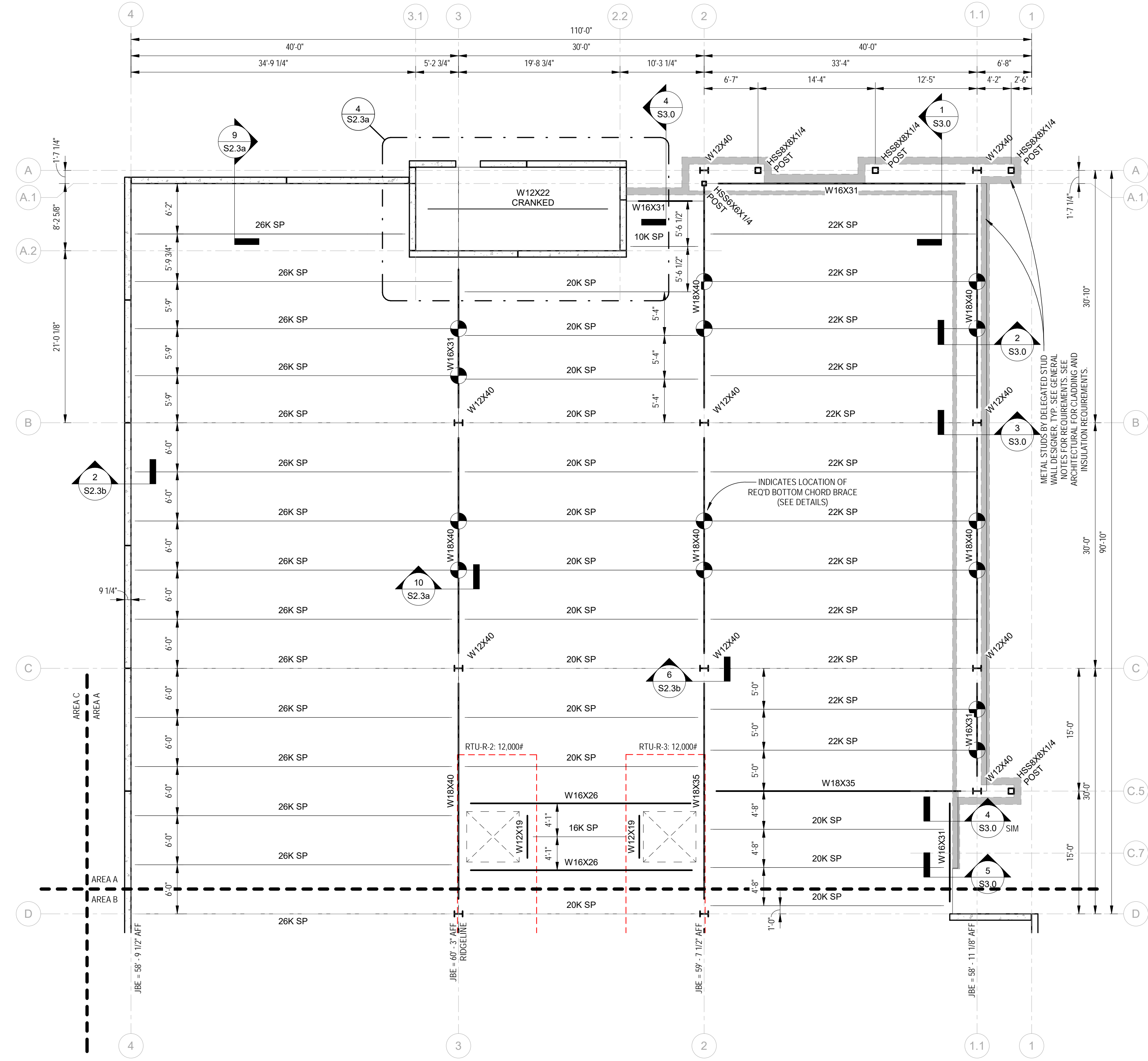
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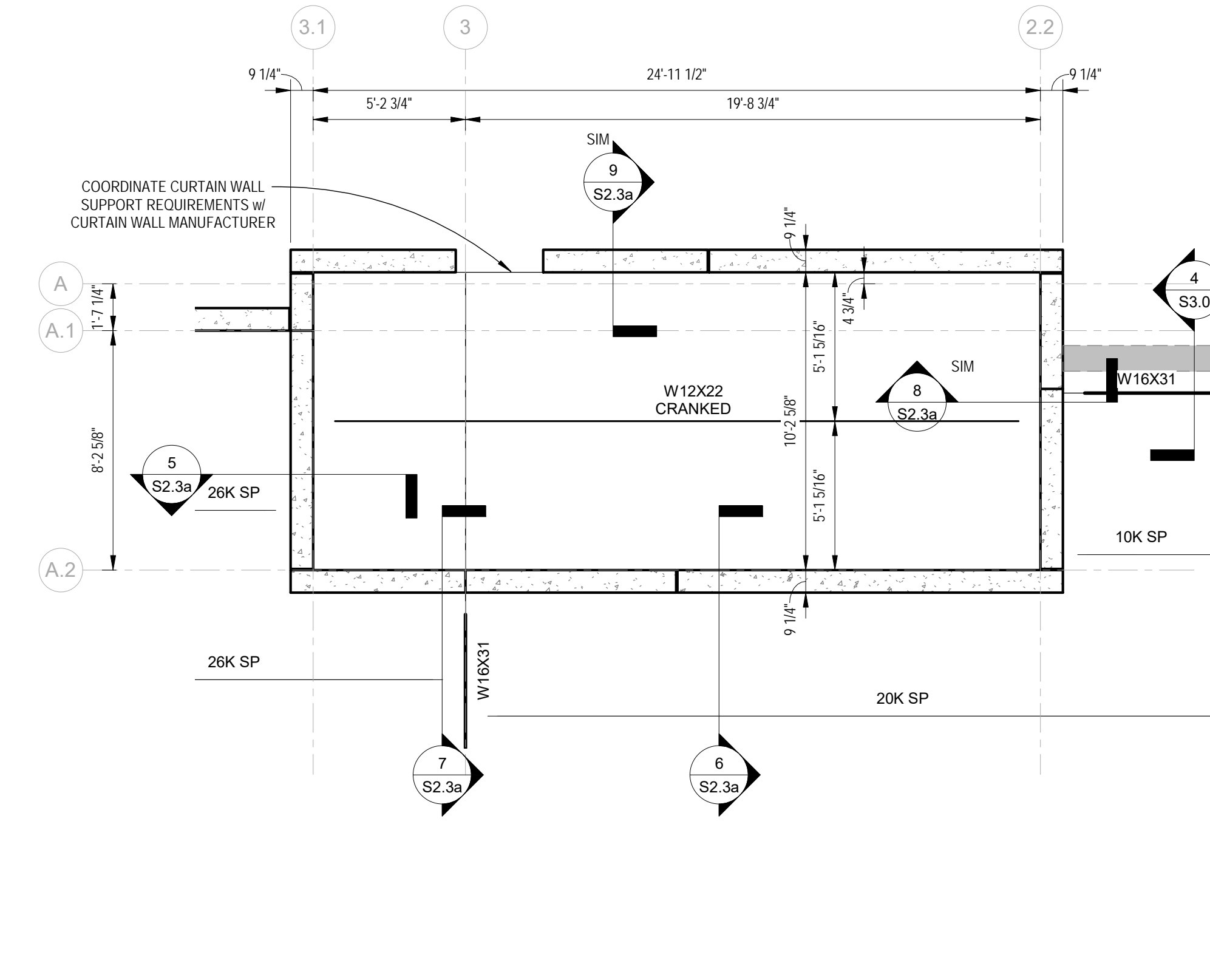
C

B

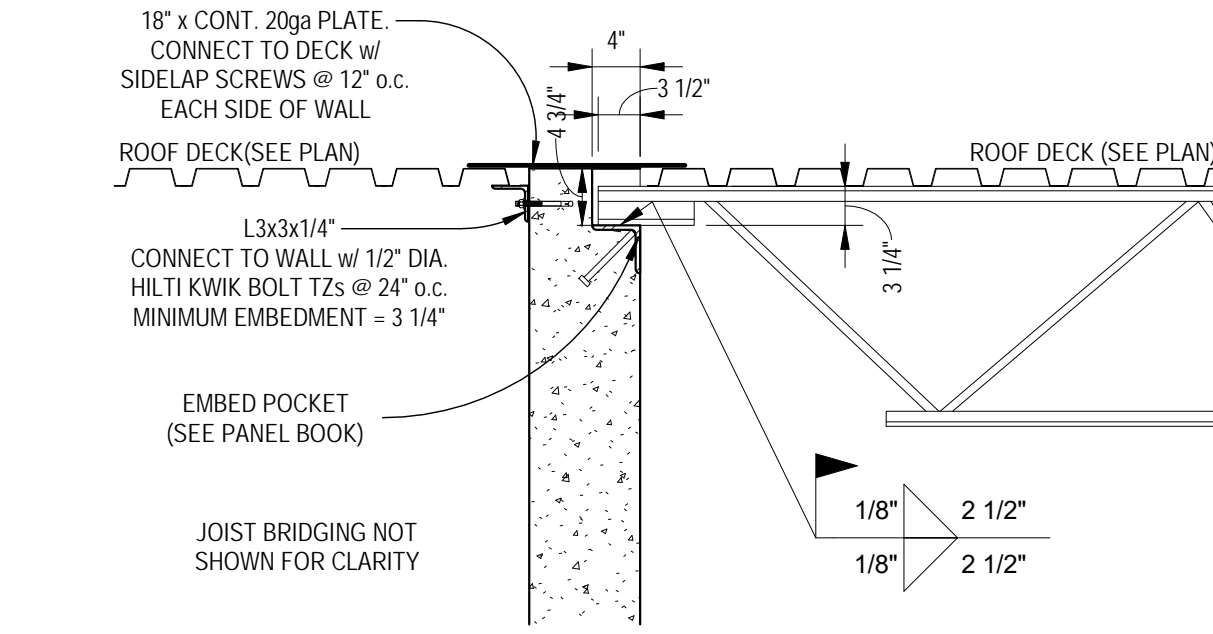
A



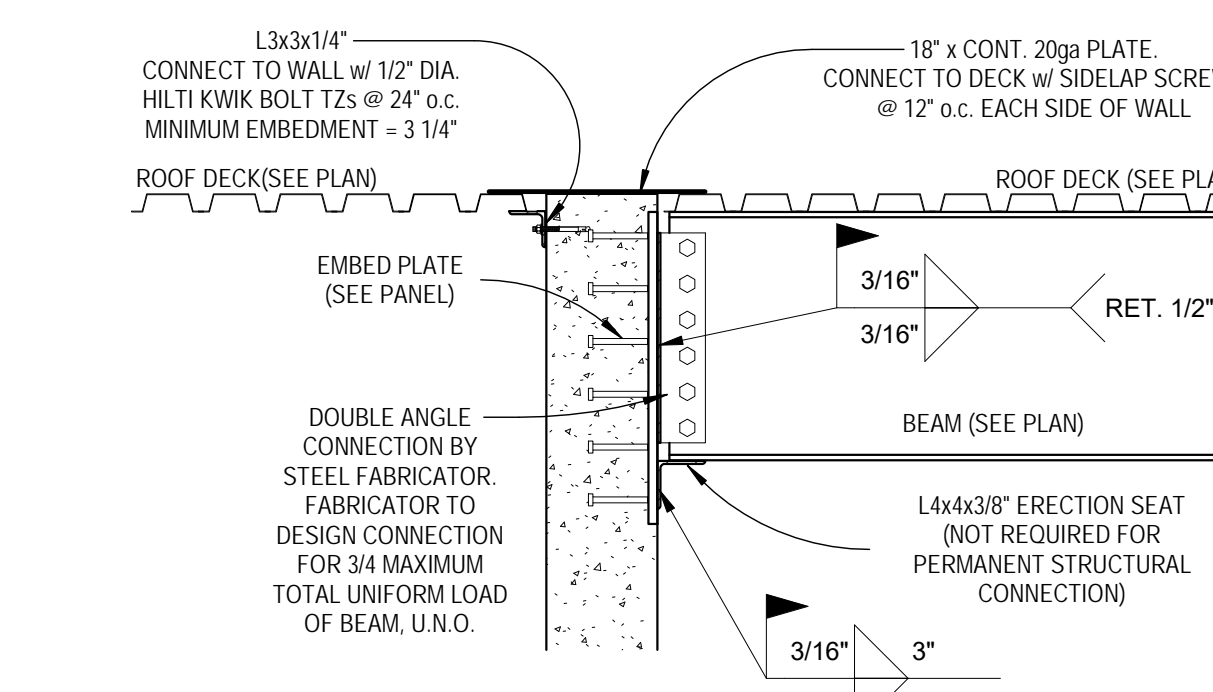
1 ROOF FRAMING PLAN
1/8" = 1'-0"



8 ROOF FRAMING PLAN - STAIR
1/4" = 1'-0"

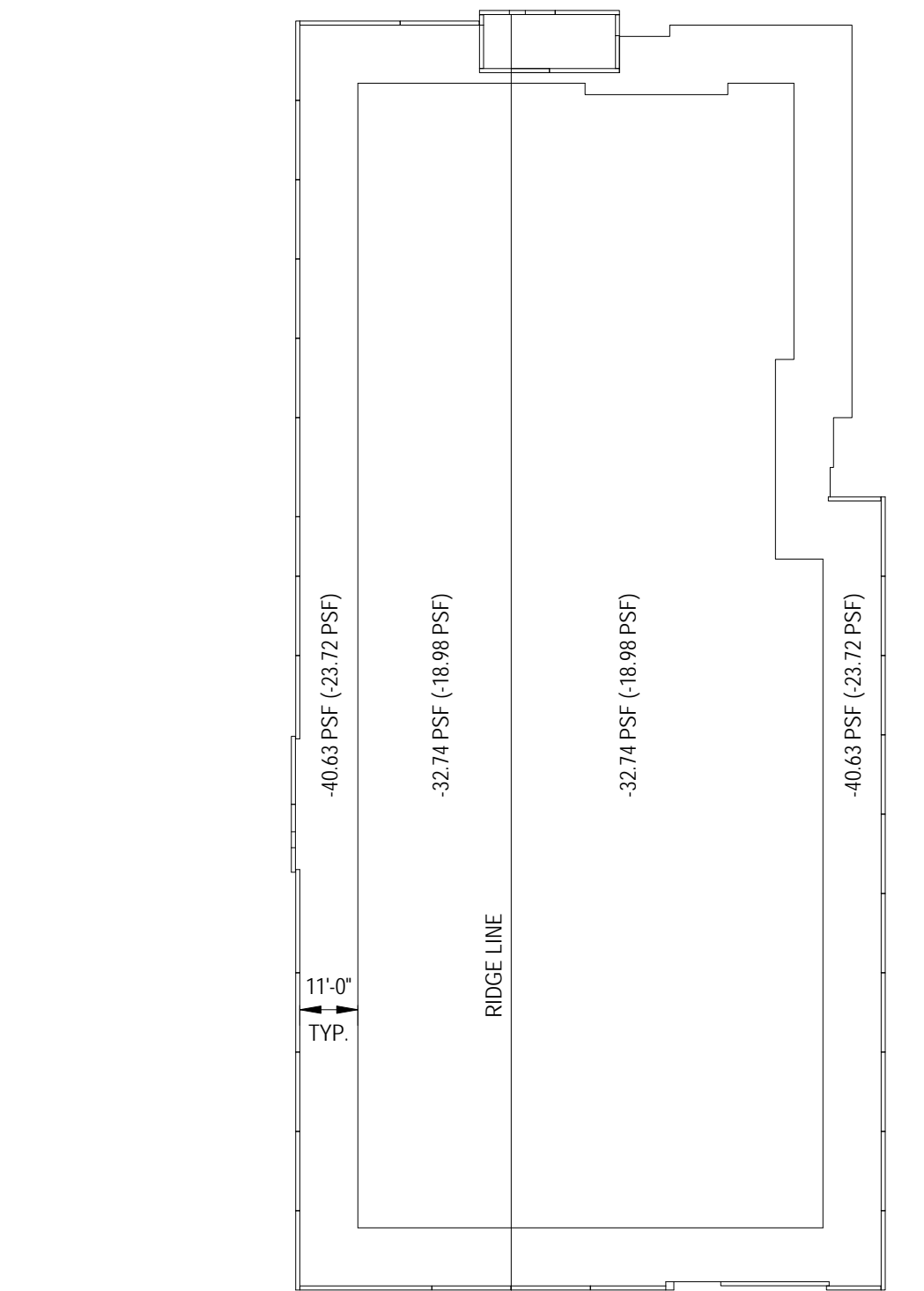


5 K JOIST POCKET & BOLTED DECK ANGLE TO TILT-UP WALL AT INT. PANEL
3/4" = 1'-0"

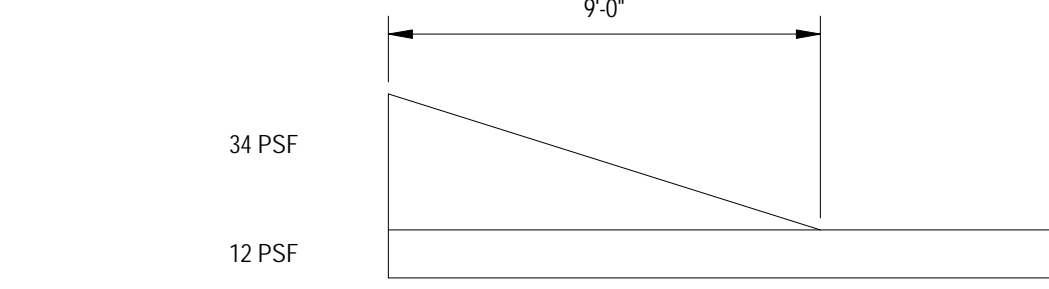


8 ROOF W BEAM TO TILT-UP WALL AT INTERIOR PANEL
3/4" = 1'-0"

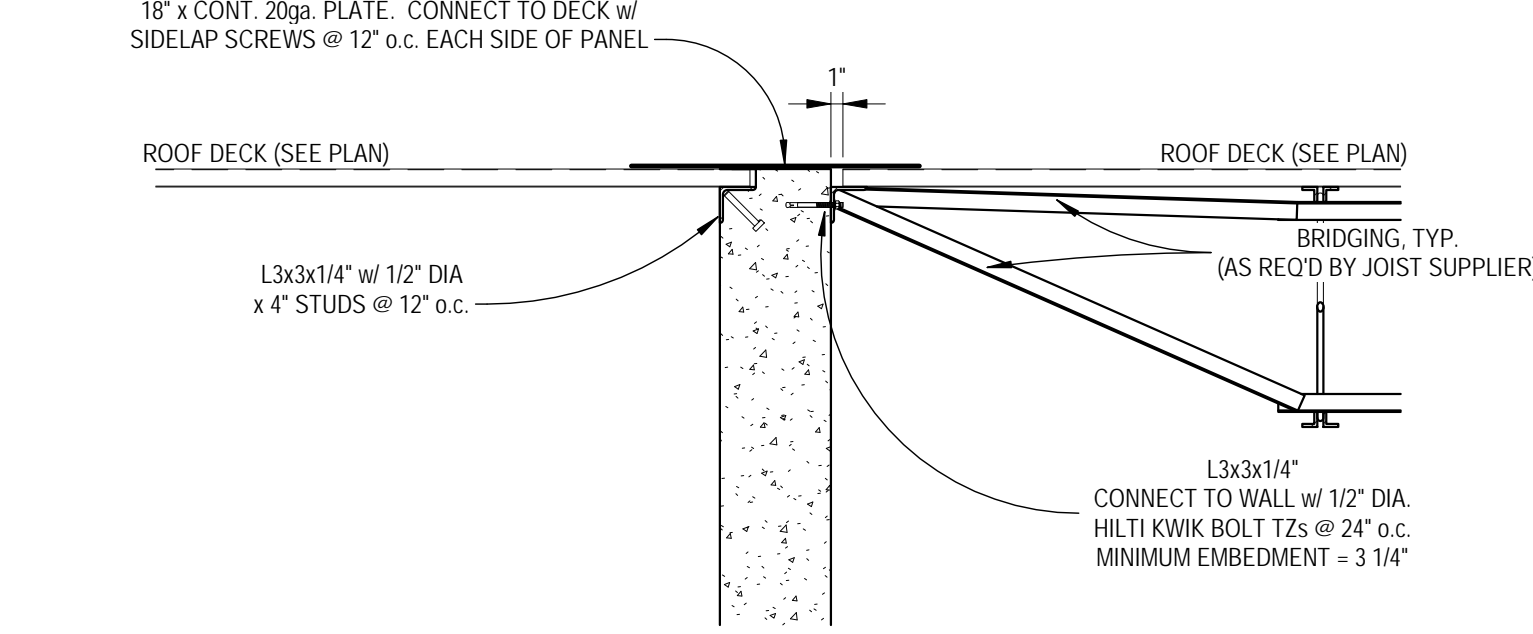
DESIGN NOTES:
ELEVATIONS NOTED AS "J.B.E" ON PLAN
LIVE LOAD = 20 PSF
DEAD LOAD = 20 PSF
WIND LOAD = 15 PSF
SNOW LOAD = 12 PSF
SNOW DRIFT LOADS PER DIAGRAMS ON S2.3a
JOIST NET UPLIFT PER DIAGRAM ON S2.3a
MAXIMUM LIVE LOAD DEFLECTION = L/240
1 1/2" x 22ga. PAINTED, TYPE "B" ROOF DECK, UNO.
MINIMUM 3 SPAN CONDITION.
DECK TO BE FASTENED USING HILTI X-HSV 24 DIRECT FASTENING SYSTEM ON 36/7 PATTERN.
SIDELAPS TO BE FASTENED WITH HILTI S-SLC-01 M HHW OR HILTI S-SLC-02 M HHW SIDELAP
CONNECTORS AT 12" o.c. DECK TO BE FASTENED TO PERIMETER OF BUILDING AT 6" o.c.
JOIST SUPPLIER IS TO DESIGN ALL JOISTS AND BRIDGING FOR MOST ECONOMICAL SIZES BASED
ON DESIGN LOADS AND FASTENING PATTERNS SPECIFIED IN THESE DOCUMENTS AND
CURRENT SJI REQUIREMENTS.
JOIST SUPPLIER IS TO DESIGN ALL JOISTS TO CARRY LISTED RTU LOADS WITHOUT THE USE OF
FIELD ADDED STRUTS TO TAKE THE POINT LOADS TO THE NEAREST PANEL POINTS.
CONTRACTOR TO VERIFY/COORDINATE ALL RTU LOCATIONS & WEIGHTS w/ JOIST SUPPLIER
OPENINGS IN DECK SMALLER THAN 12" SQUARE SHALL BE PLACED SO THAT THE OPENING
OCCURS ENTIRELY IN ONE PIECE OF DECK AND DO NOT REQUIRE ADDITIONAL SUPPORT
FRAMES. OPENINGS 12" SQUARE OR LARGER REQUIRE AN L4x4x1/4" AROUND THE ENTIRE
OPENING PERIMETER. ALL PRIMARY & SECONDARY ROOF DRAIN PENETRATIONS SHALL
REQUIRE AN L4x4x1/4" FRAME AROUND THE PENETRATION REGARDLESS OF PENETRATION SIZE.



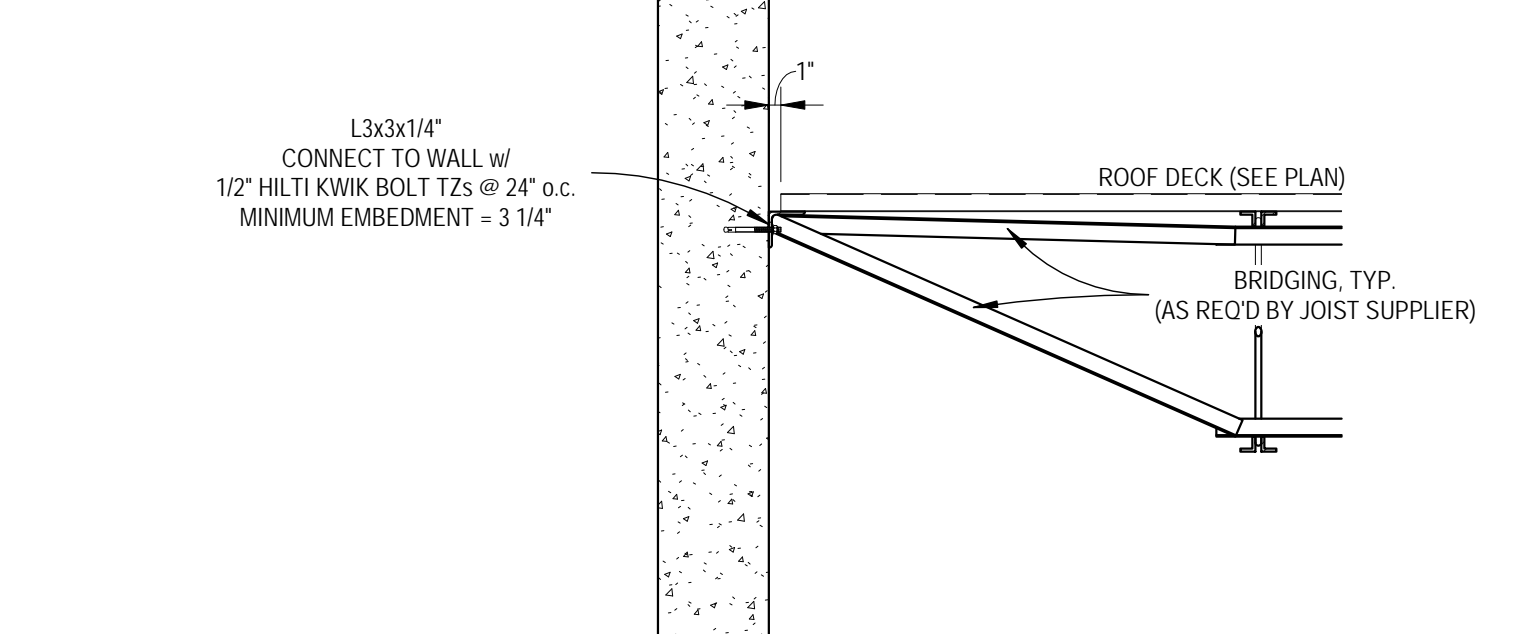
2 FACTORED JOIST NET UPLIFT DIAGRAM - LRFD (ASD) - TOWER
1/32" = 1'-0"



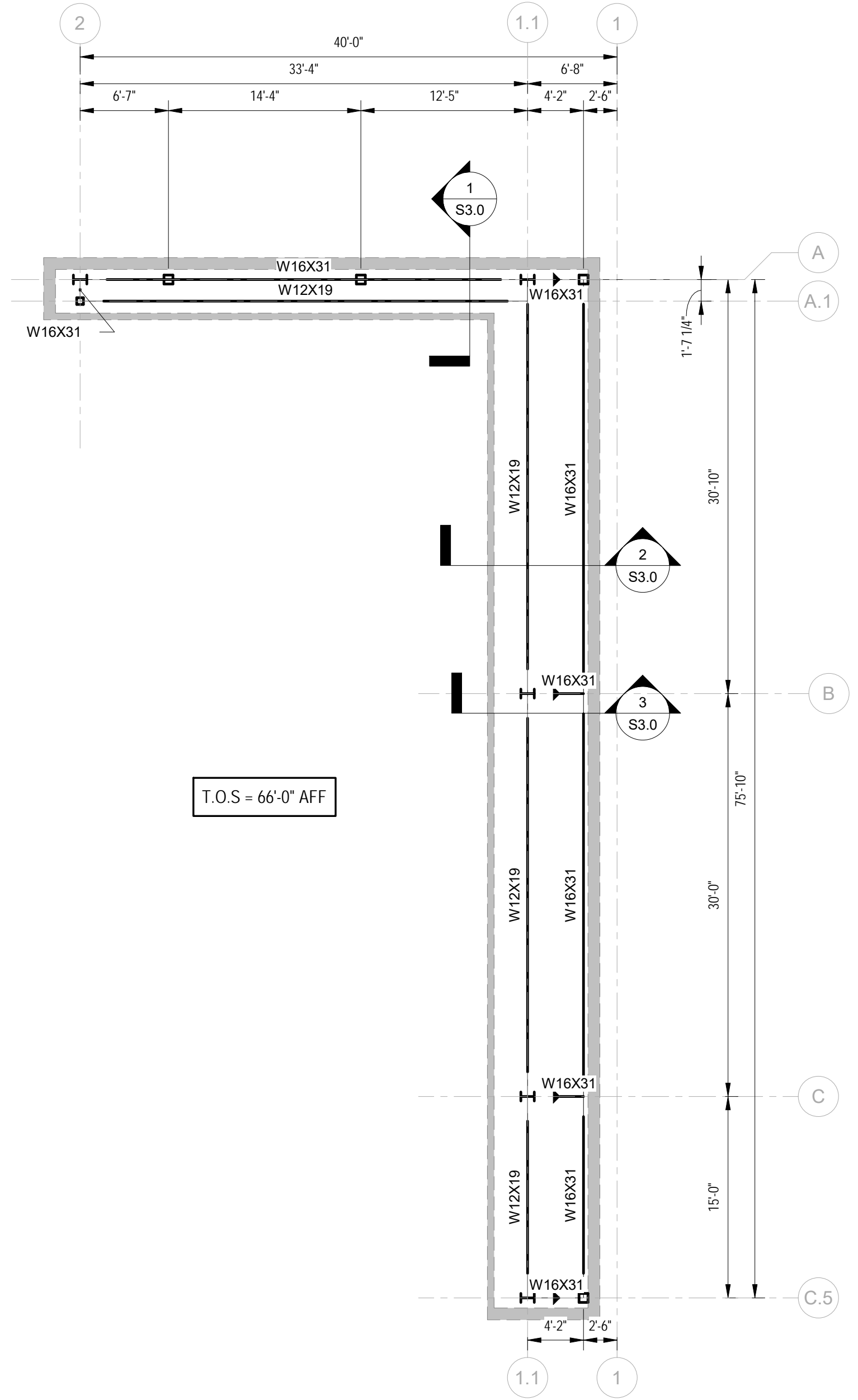
3 SNOW DRIFT ALONG ENTIRE PERIMETER AND ELEVATOR PENTHOUSE
1/4" = 1'-0"



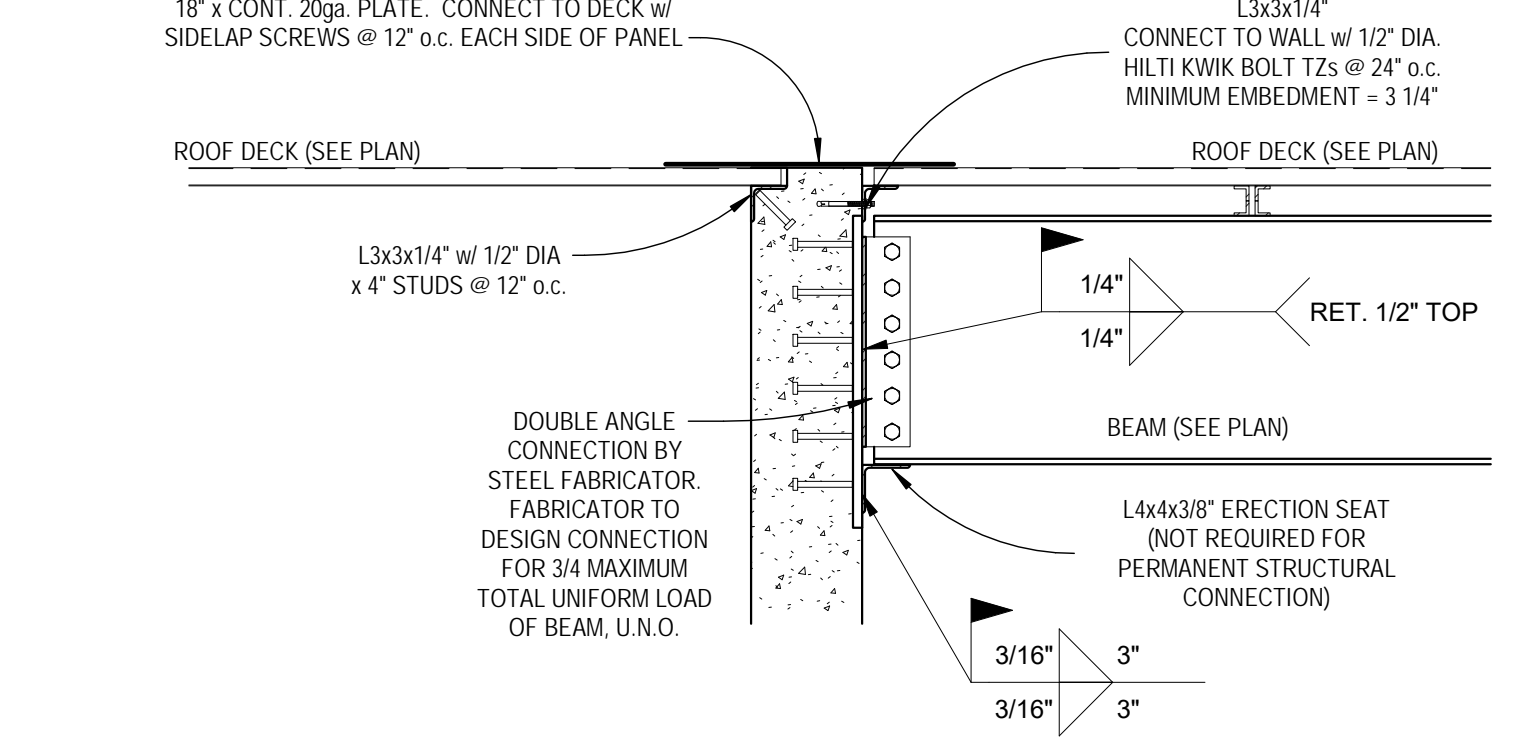
6 ROOF DECK AT INTERIOR TILT-UP WALL
3/4" = 1'-0"



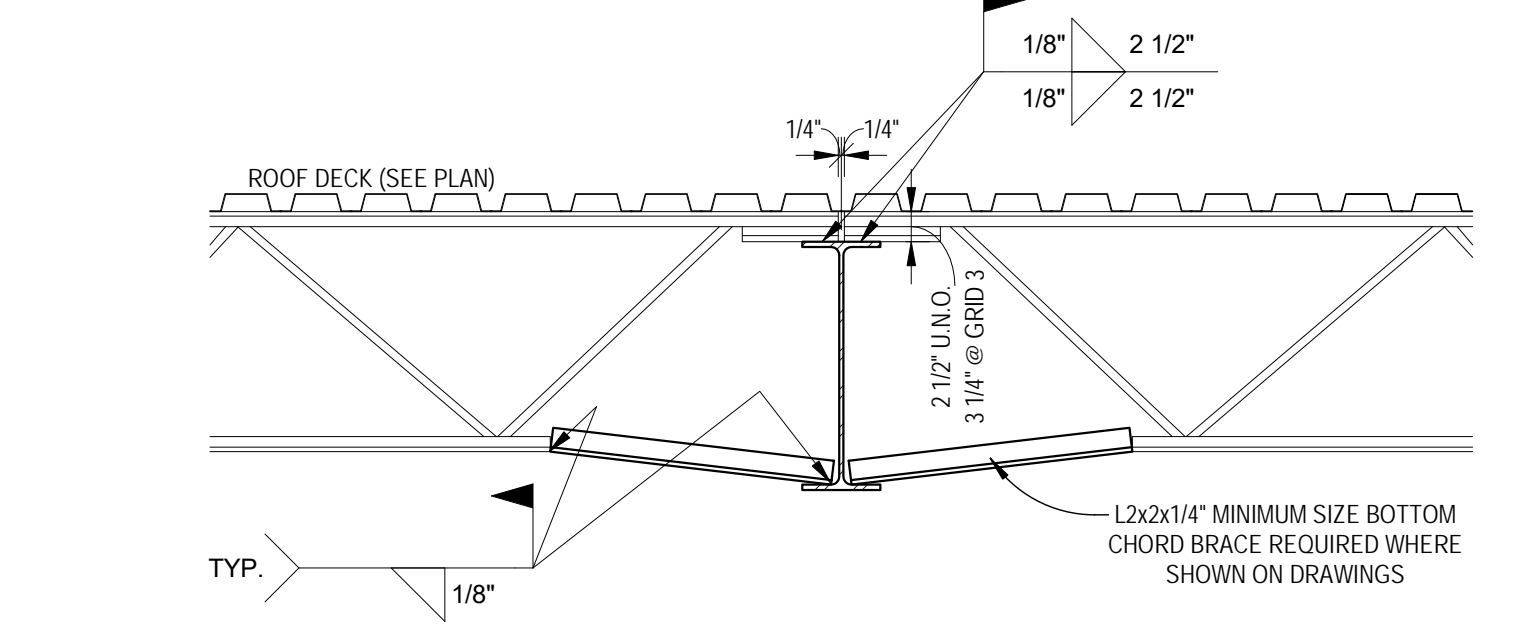
9 ROOF DECK TO TILT-UP WALL
3/4" = 1'-0"



3 HIGH ROOF FRAMING PLAN AT ENTRY
1/8" = 1'-0"



7 ROOF W GIRDER TO TILT-UP WALL AT INTERIOR PANEL
3/4" = 1'-0"



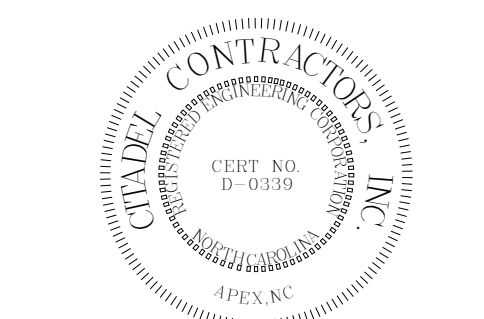
10 K JOIST TO W FLANGE GIRDER
3/4" = 1'-0"



NEW HANOVER COUNTY



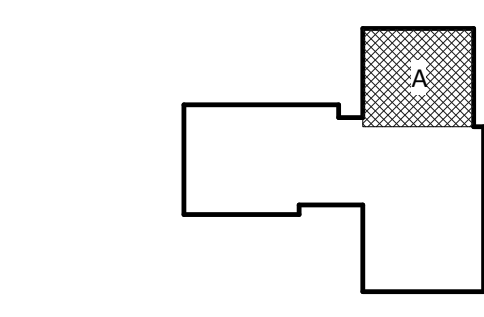
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NEW HANOVER COUNTY GOVERNMENT CENTER GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403

A	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET

KEY PLAN:

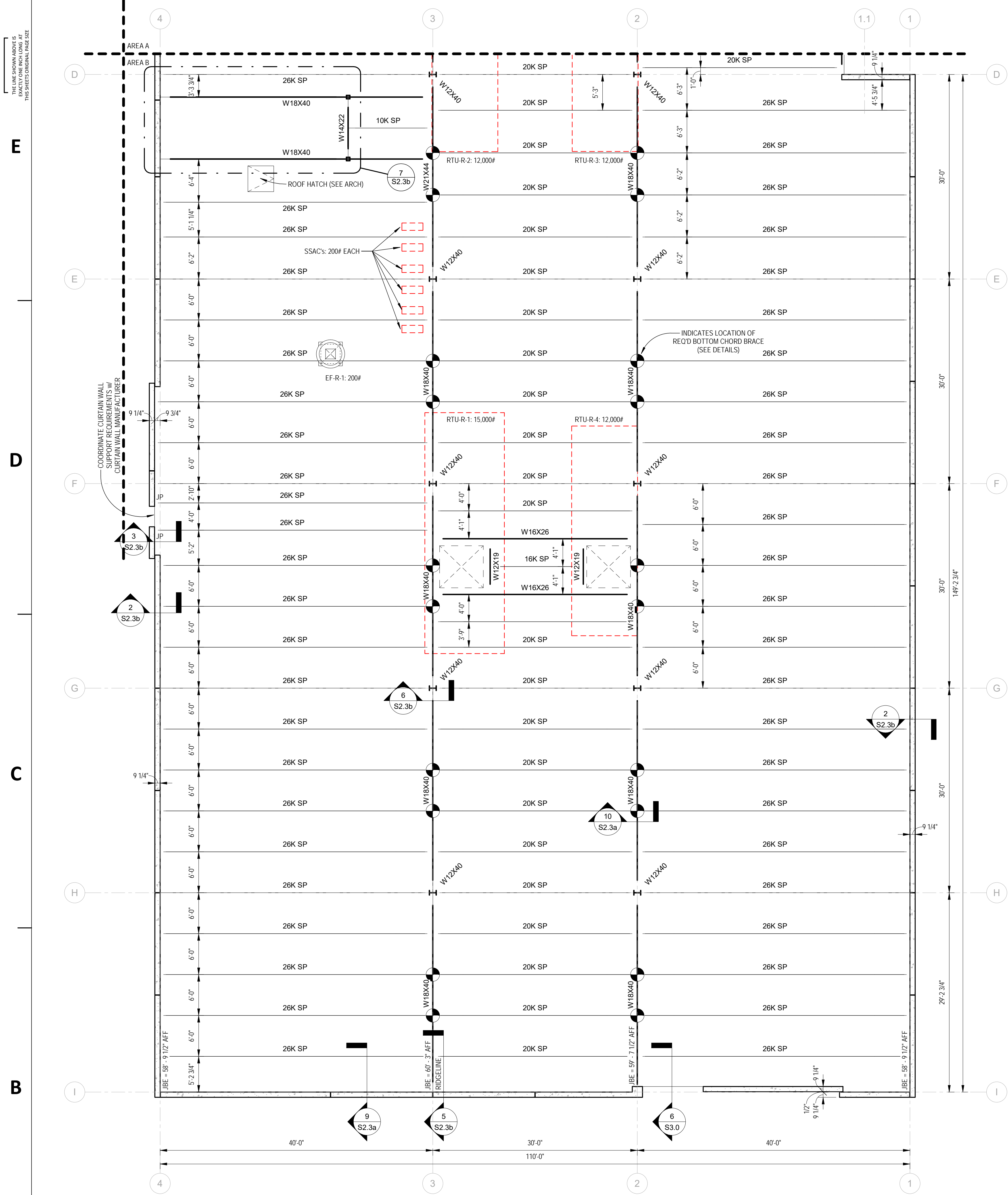


SHEET NAME:
ROOF FRAMING
PLAN - AREA A
(TOWER)

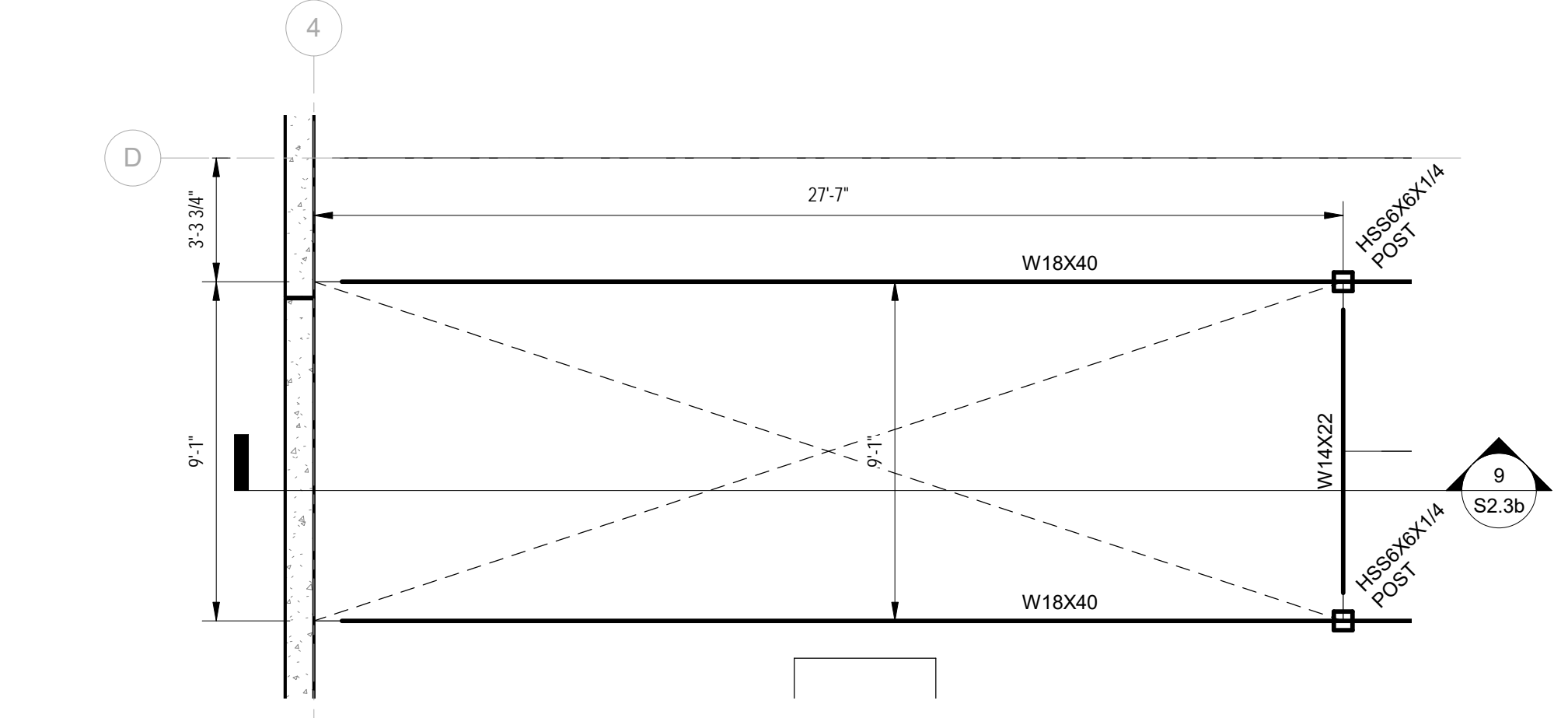
ORIG SUBMISSION: 2020.10.16
CURRENT REV.: 2020.10.16

DRAWN BY: M. FREW
APPROVED BY: CEJ
SHEET:

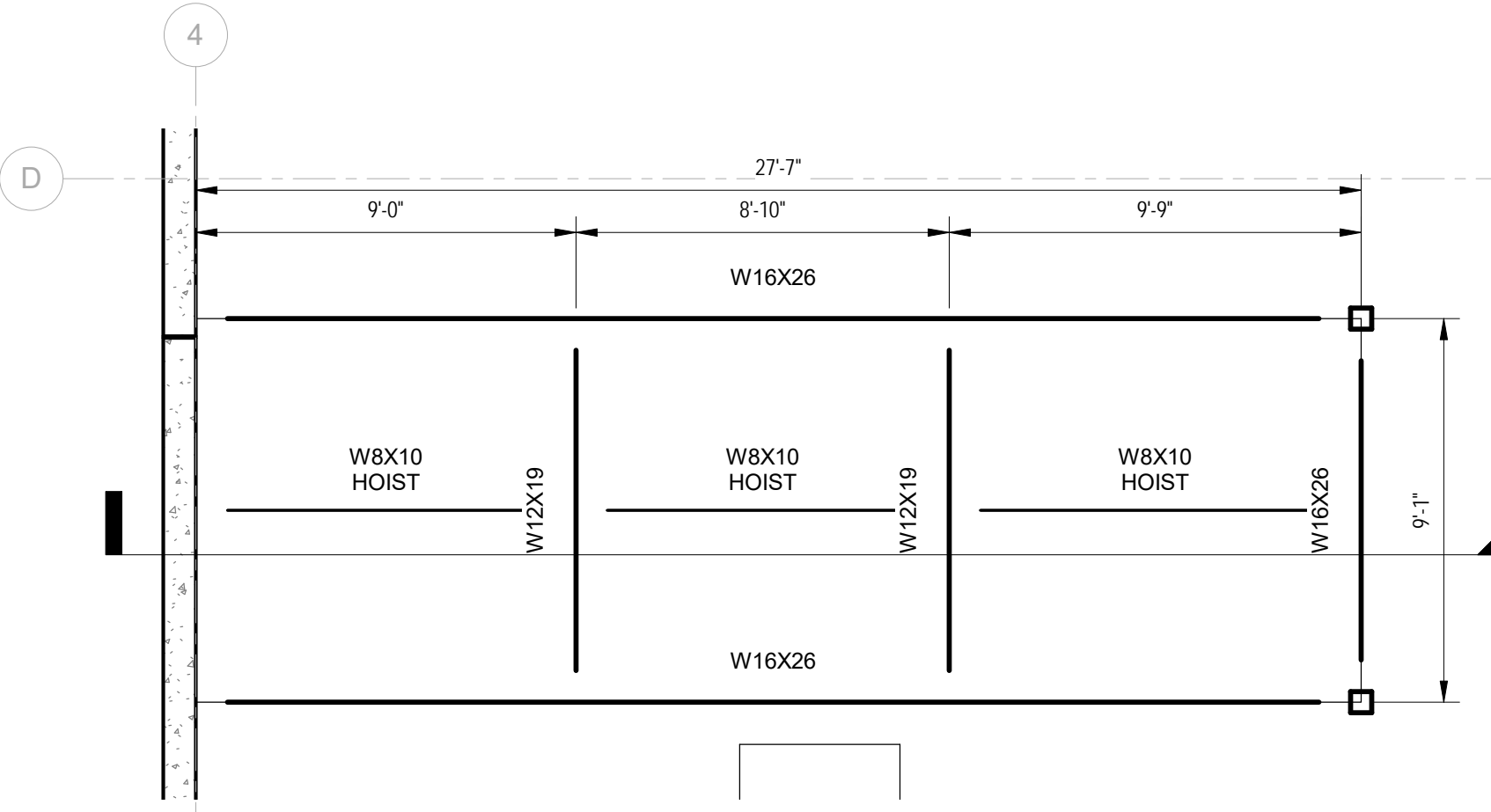
S2.3a
C+S PERMIT SET



1 ROOF FRAMING PLAN
1/8" = 1'-0"

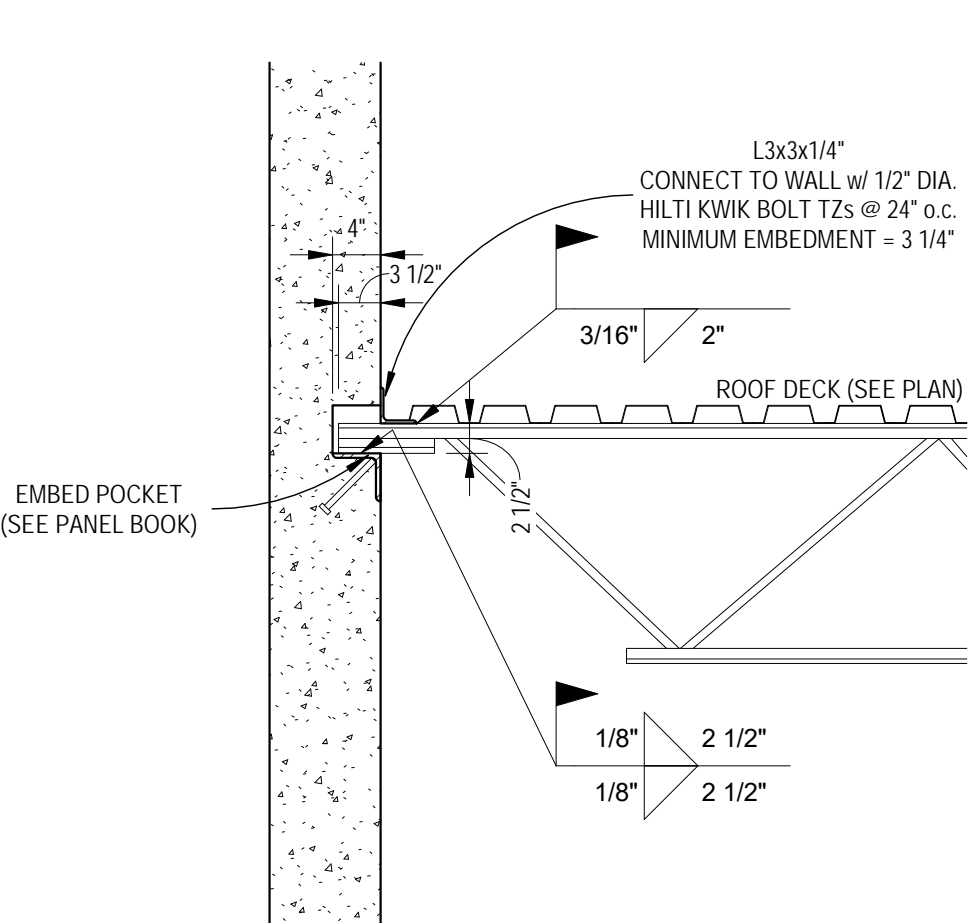


7 ROOF FRAMING PLAN - ELEVATOR
1/4" = 1'-0"

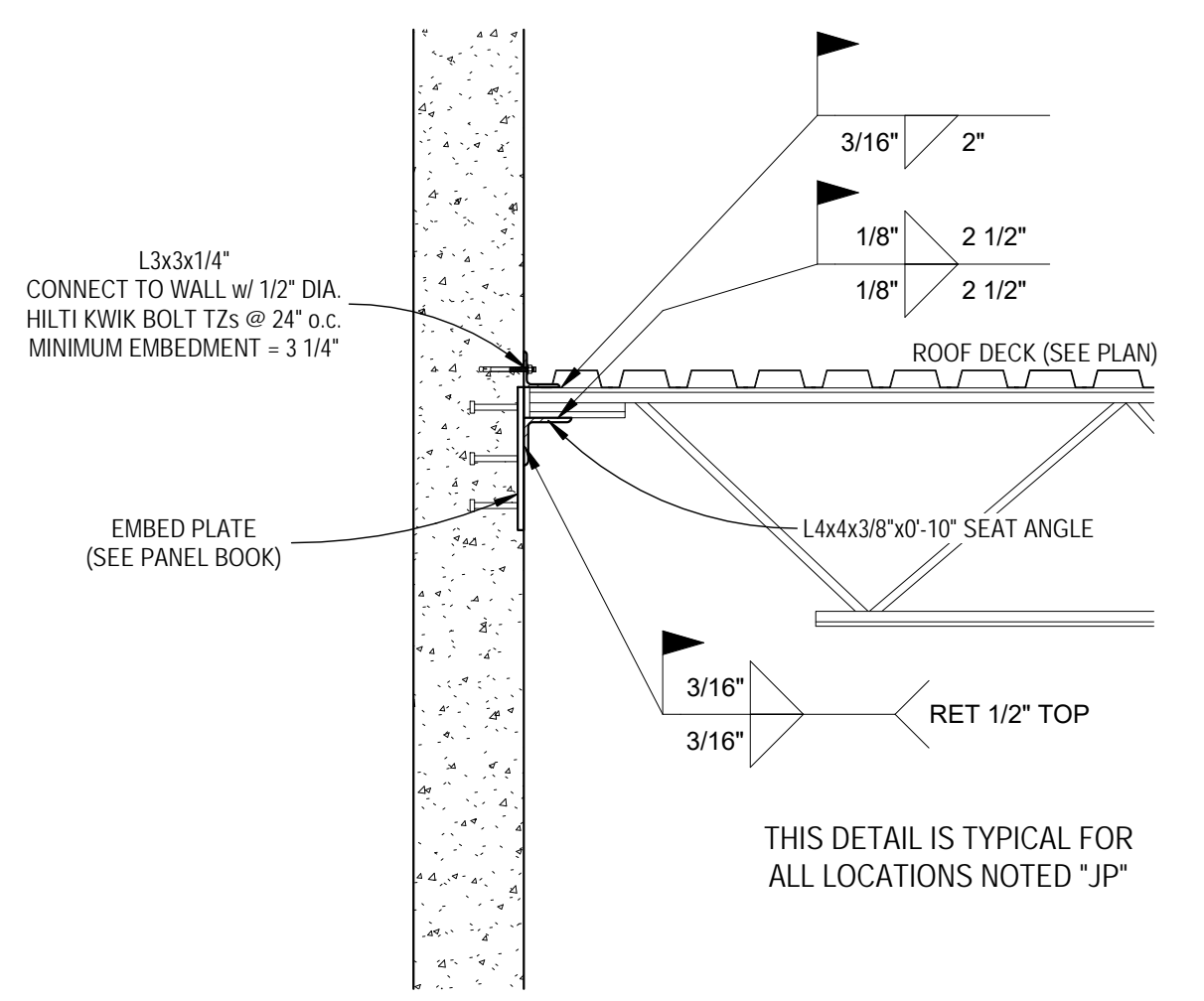


8 PENTHOUSE FRAMING PLAN
1/4" = 1'-0"

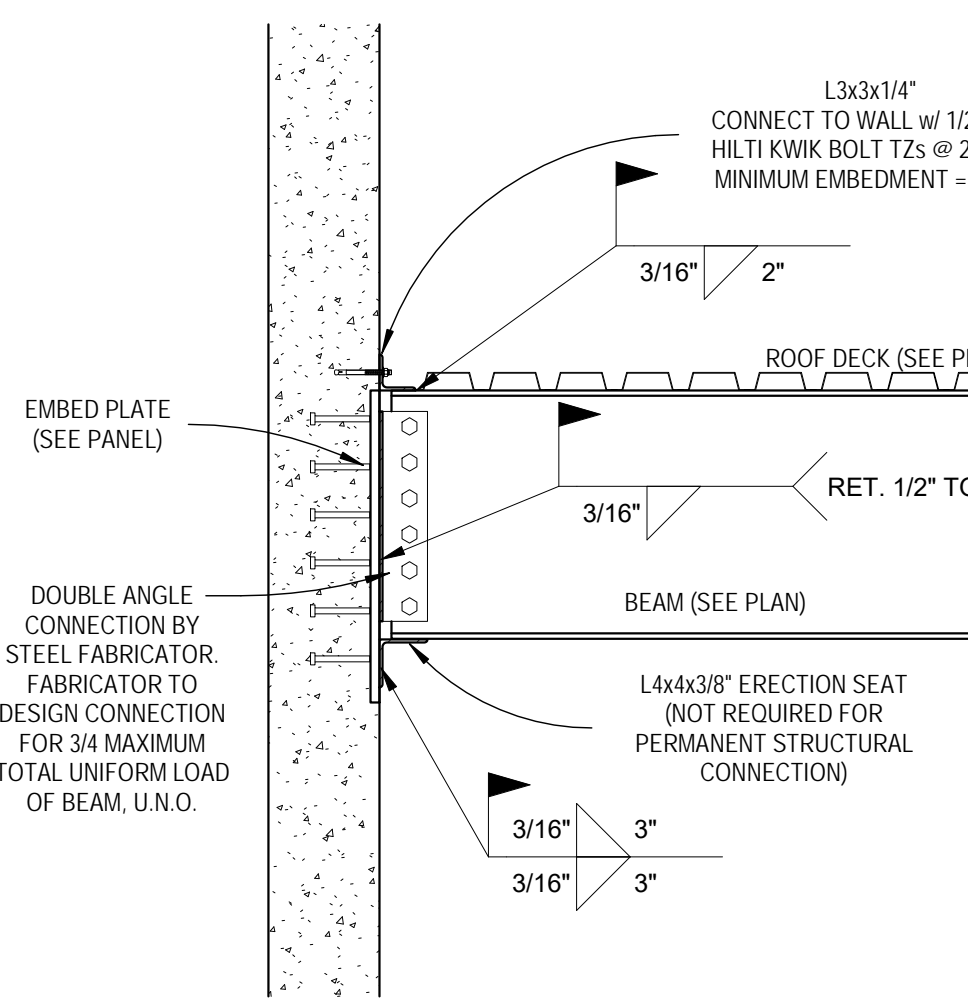
DESIGN NOTES:
ELEVATIONS NOTED AS "J.B.E" ON PLAN
LIVE LOAD = 20 PSF
DEAD LOAD = 20 PSF
WIND LOAD = 15 PSF
SNOW LOAD = 12 PSF
SNOW DRIFT LOADS PER DIAGRAMS ON S2.3a
JOIST NET UPLIFT PER DIAGRAM ON S2.3a
MAXIMUM LIVE LOAD DEFLECTION = L/240
1 1/2" 22ga., PAINTED, TYPE "B" ROOF DECK, UNO.
MINIMUM 3 SPAN CONDITION
DECK TO BE FASTENED USING HILTI X-HSN 24 DIRECT FASTENING SYSTEM ON 36/7 PATTERN.
SIDELAPS TO BE FASTENED WITH HILTI S-SLC-01 M HWI OR HILTI S-SLC-02 M HWI SIDELAP
CONNECTORS AT 12" o.c. DECK TO BE FASTENED TO PERIMETER OF BUILDING AT 6" o.c.
JOIST SUPPLIER IS TO DESIGN ALL JOISTS AND BRIDGING FOR MOST ECONOMICAL SIZES BASED
ON DESIGN LOADS AND FASTENING PATTERNS SPECIFIED IN THESE DOCUMENTS AND
CURRENT SJI REQUIREMENTS.
JOIST SUPPLIER IS TO DESIGN ALL JOISTS TO CARRY LISTED RTU LOADS WITHOUT THE USE OF
FIELD ADDED STRUTS TO TAKE THE POINT LOADS TO THE NEAREST PANEL POINTS.
CONTRACTOR TO VERIFY/COORDINATE ALL RTU LOCATIONS & WEIGHTS W/ JOIST SUPPLIER
OPENINGS IN DECK SMALLER THAN 12" SQUARE SHALL BE PLACED SO THAT THE OPENING
OCCURS ENTIRELY IN ONE PIECE OF DECK AND DO NOT REQUIRE ADDITIONAL SUPPORT
FRAMES. OPENINGS 12" SQUARE OR LARGER REQUIRE AN L4x4x3/8" FRAME AROUND THE ENTIRE
OPENING PERIMETER. ALL PRIMARY & SECONDARY ROOF DRAIN PENETRATIONS SHALL
REQUIRE AN L4x4x1/4" FRAME AROUND THE PENETRATION REGARDLESS OF PENETRATION SIZE.



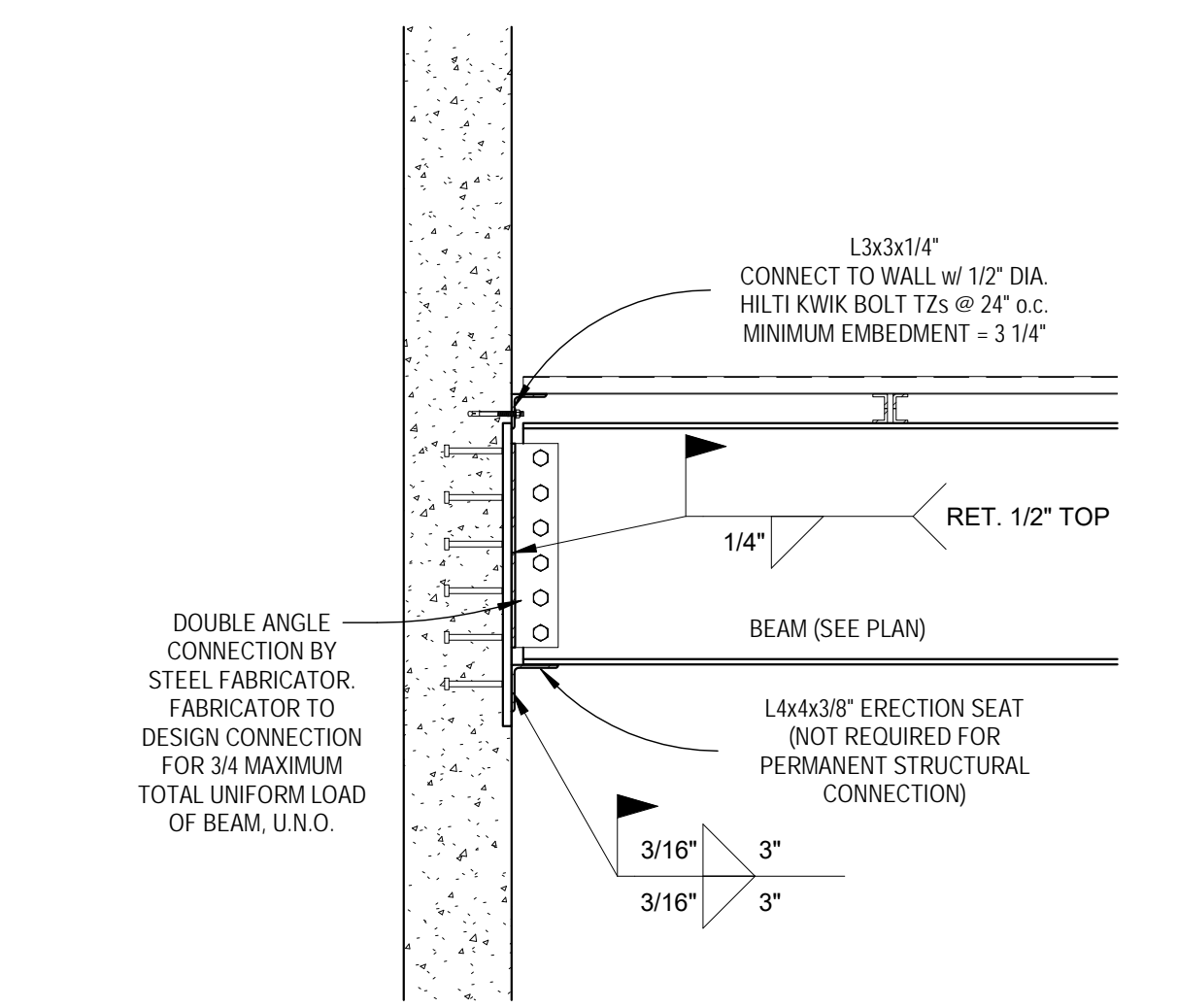
2 K JOIST TO TILT-UP WALL POCKET
3/4" = 1'-0"



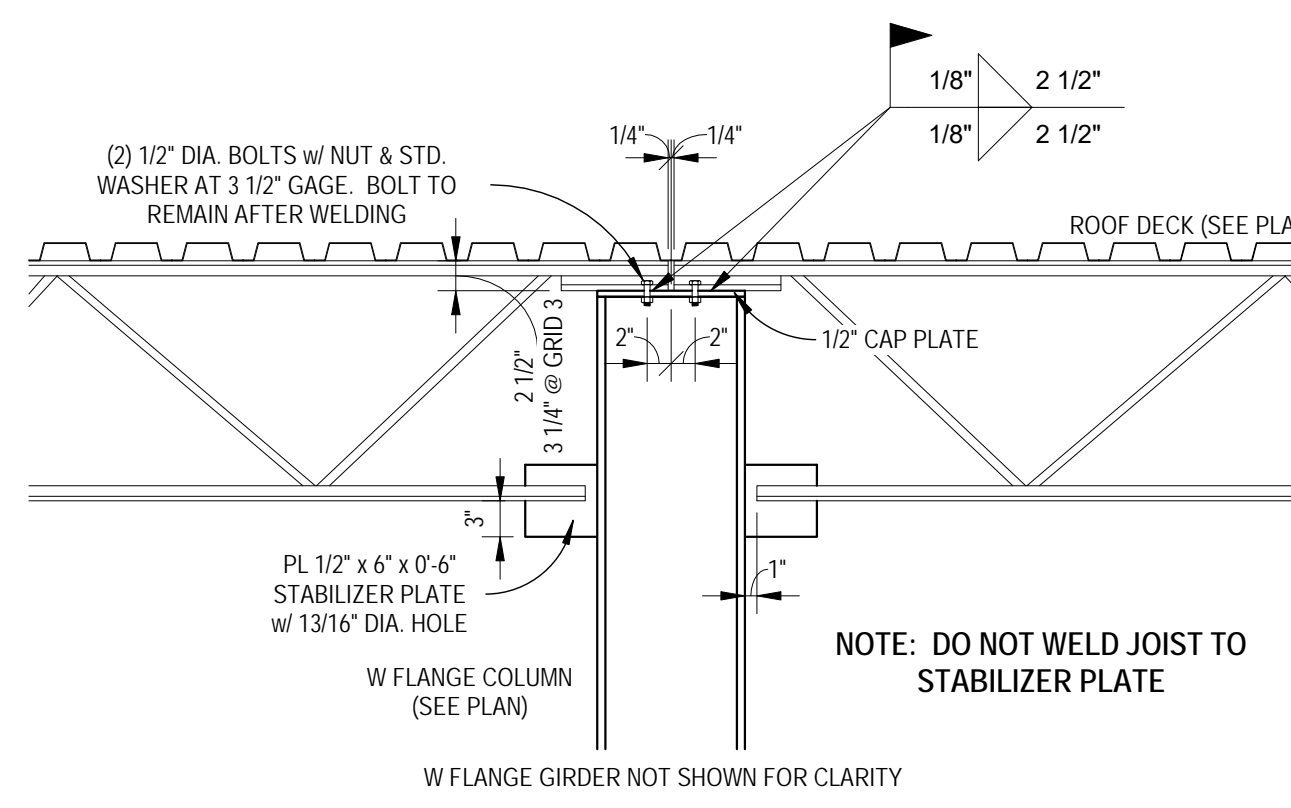
3 K JOIST TO TILT-UP WALL PLATE
3/4" = 1'-0"



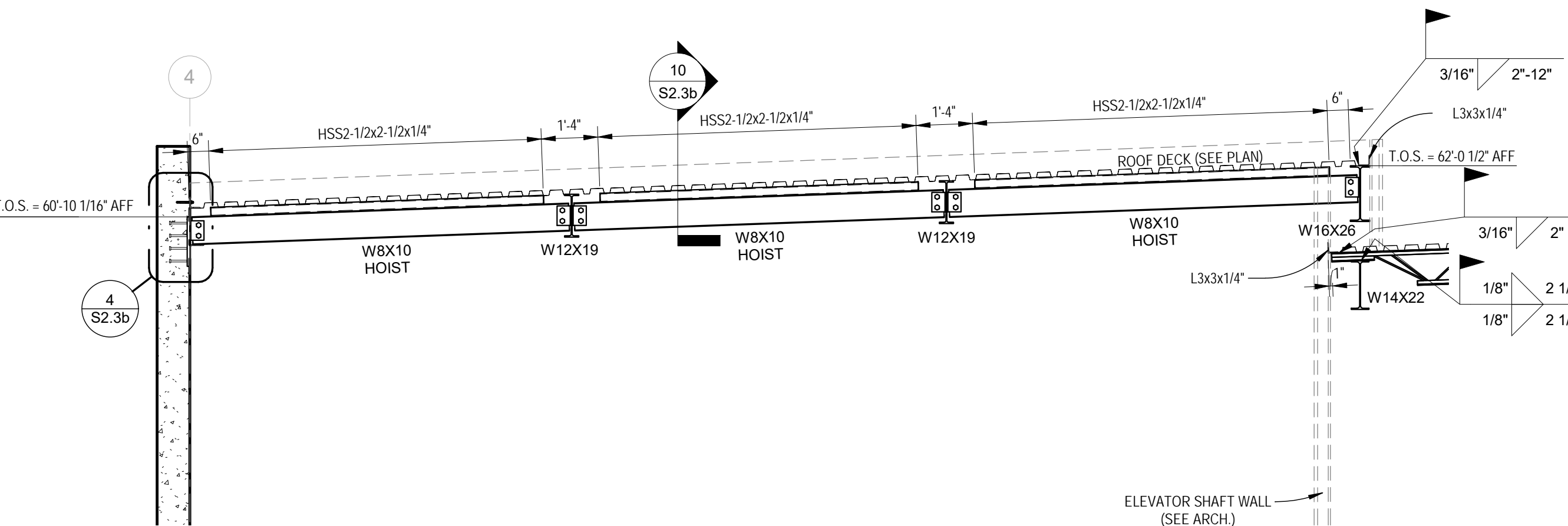
4 ROOF W BEAM TO TILT-UP WALL PLATE
3/4" = 1'-0"



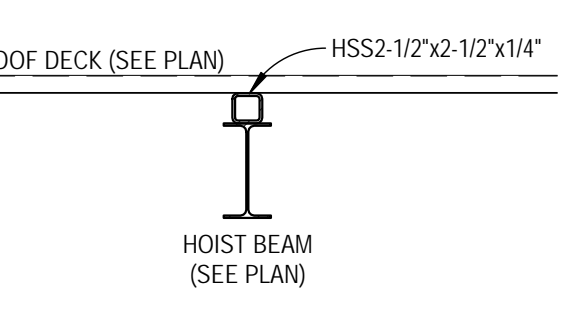
5 ROOF W GIRDER TO TILT-UP WALL PLATE
3/4" = 1'-0"



6 TIE JOIST TO W FLANGE COLUMN
3/4" = 1'-0"



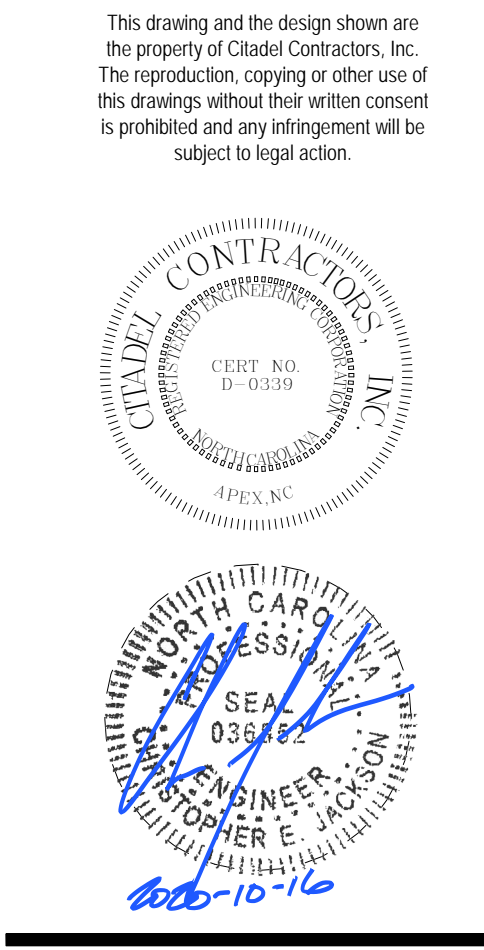
9 ELEVATOR SECTION AT ROOF
3/8" = 1'-0"



10 ELEVATOR HOIST BEAM DETAIL
3/4" = 1'-0"



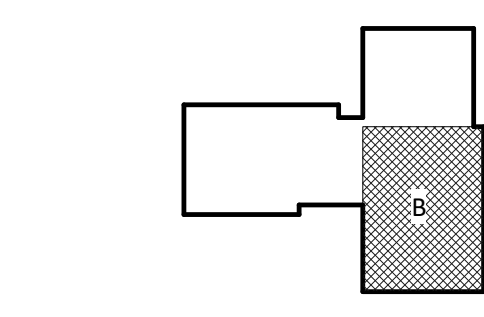
NEW HANOVER COUNTY



**NEW HANOVER COUNTY
GOVERNMENT CENTER**
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
CITADEL PROJECT: C2015

A	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET

KEY PLAN:



SHEET NAME:
**ROOF FRAMING
PLAN - AREA B
(TOWER)**

ORIG SUBMISSION: 2020.10.16
CURRENT REV.: 2020.10.16

DRAWN BY: M. FREW
APPROVED BY: CEJ
SHEET:

S2.3b
C+S PERMIT SET



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CITADEL PROJECT: C2015

[illegible]

The diagram shows a stepped profile. On the right side, there is a vertical rectangular section. To the left of this section, there are two horizontal steps of different heights, each with a small vertical segment at its right end, suggesting a series of steps or a staircase-like structure.

DRAWN BY: M. FREW
APPROVED BY: CEJ
SHEET:

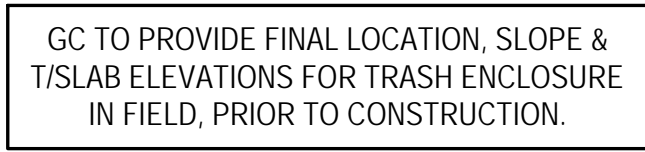
C+S PERMIT SET

GALVANIZED 1/2"x1/2"x1'-0" w/ (2) STAINLESS STEEL
OR GALVANIZED 1/2" DIA. HILTI KWIK BOLT TzS @ 8" c/c
IN EACH ANGLE LEG. MINIMUM EMBEDMENT = 3 1/4"
PROVIDE ANGLES AT 2'-0" AND 6'-0" AFF

④ TRASH ENCLOSURE CLIP ANGLES
1/2" = 1'-0"



5 TRASH ENCLOSURE SECTION AT GATE POST
1/2" = 1'-0"



① FOUNDATION PLAN - TRASH ENCLOSURE
1/4" = 1'-0"

2 TRASH ENCLOSURE WALL SECTION AT BOLLARD
1/2" = 1'-0"

THE USER SHALL MAINTAIN A RECORD OF ALL CHANGES TO THIS DRAWING.

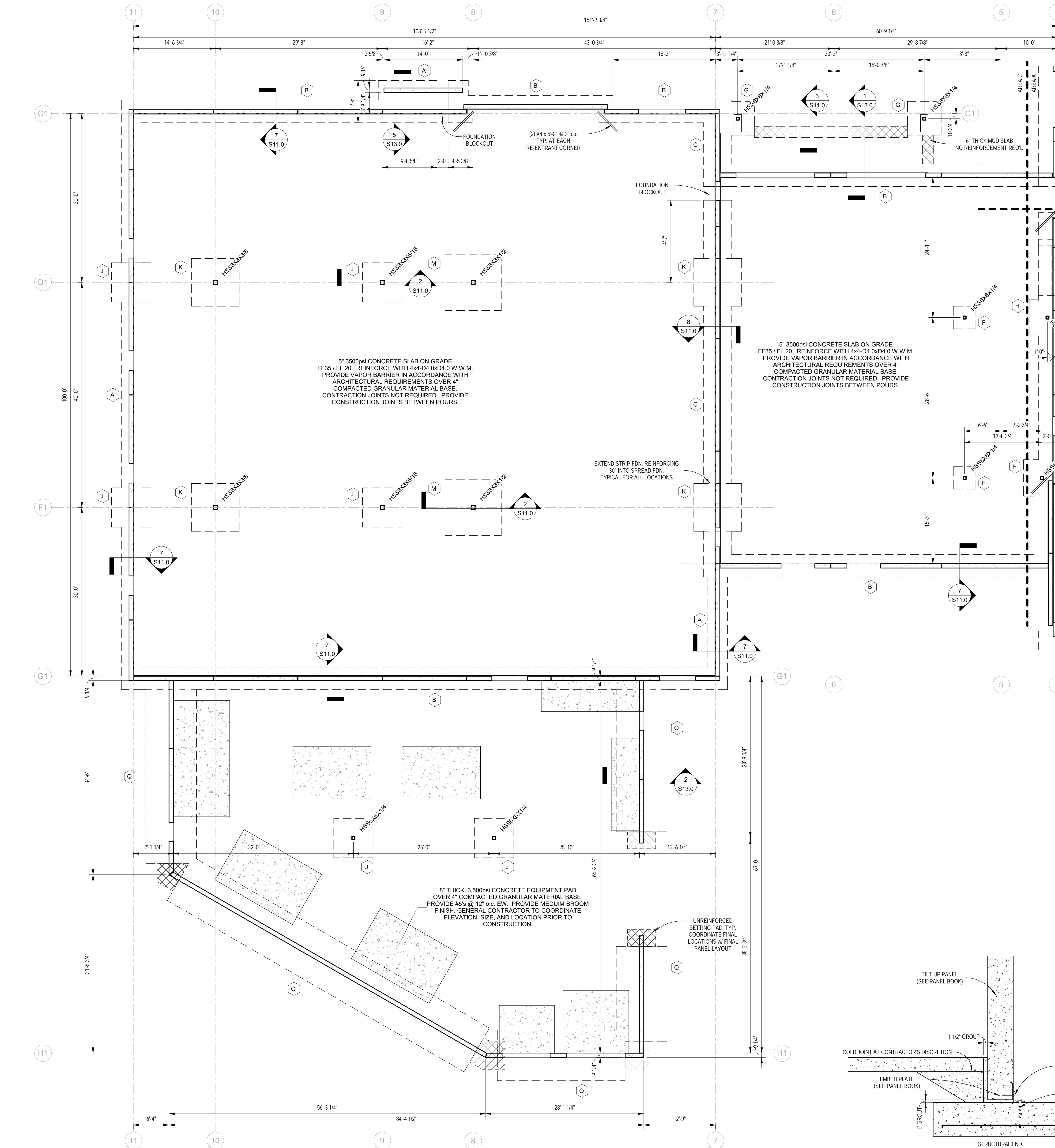
E

D

C

B

A



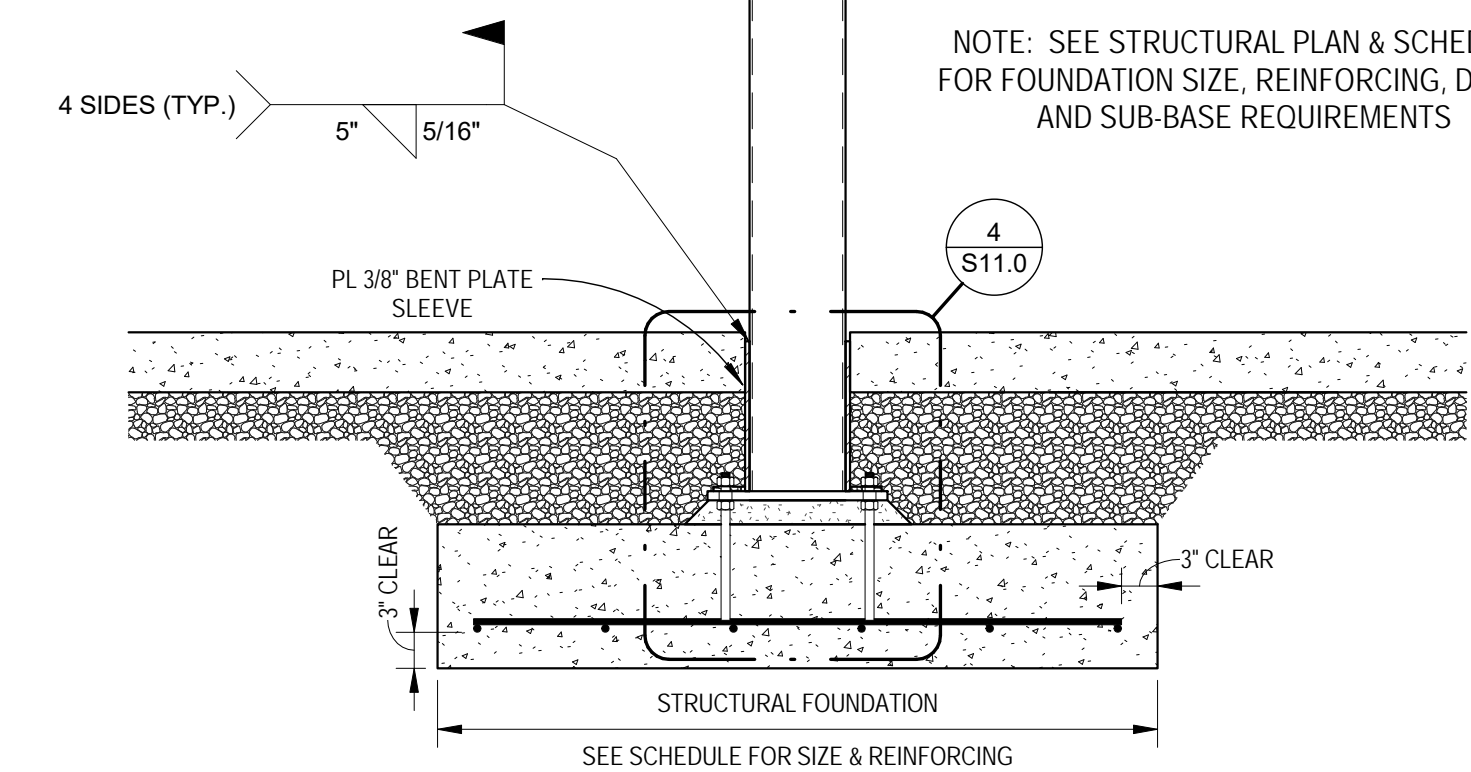
1 FOUNDATION PLAN - AREA C (E.O.C.)
1/8" = 1'-0"

7 EXTERIOR WALL FOUNDATION - SCREW ANCHOR (EOC)
3/4" = 1'-0"

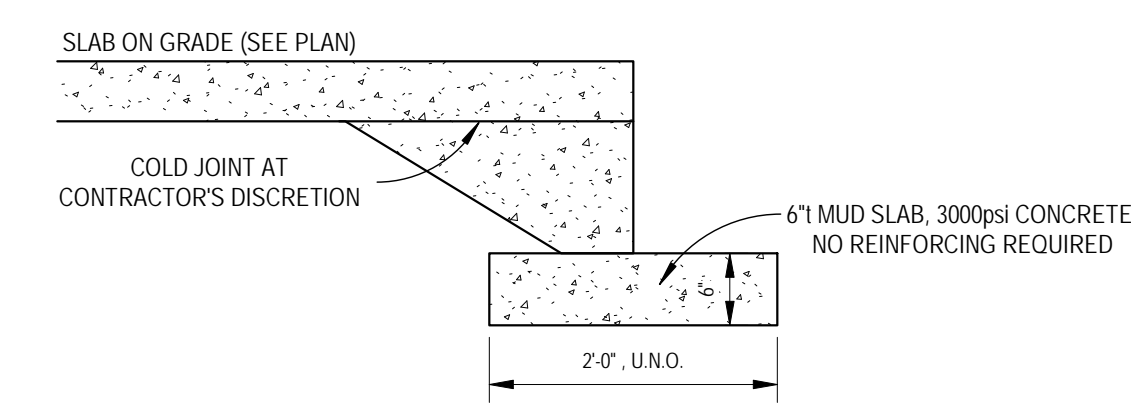
T.O.F. = -1'-4" BFF, U.N.O

PANEL THICKNESS = 9 1/4", U.N.O

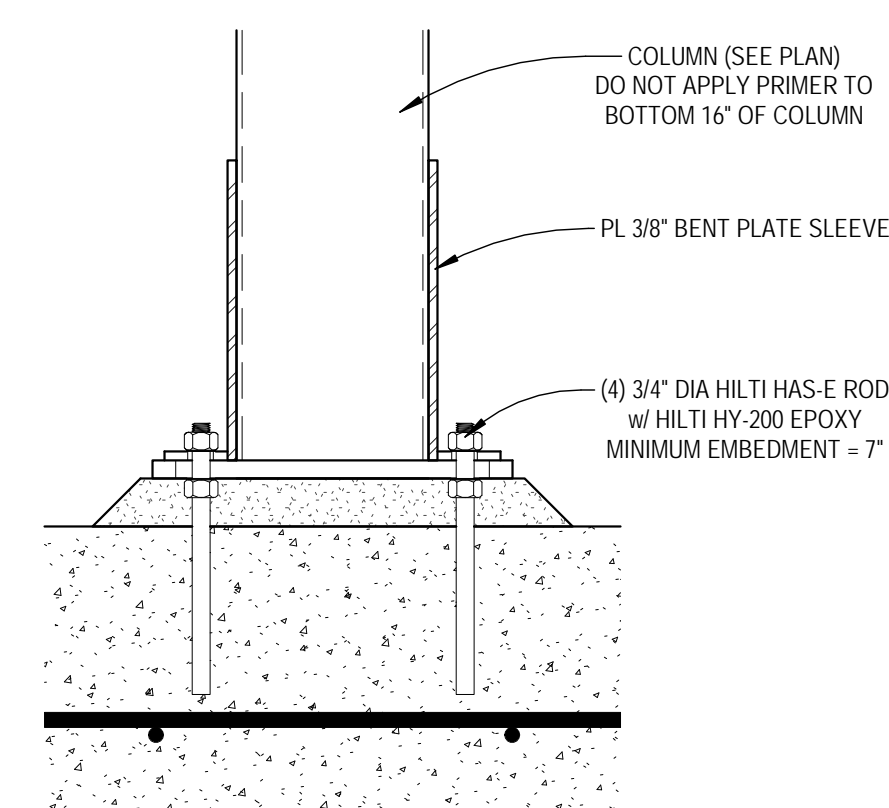
FOUNDATION SCHEDULE					
MARK	WIDTH	LENGTH	THICKNESS	REINFORCING	COMMENTS
A	3'-6"		1'-0"	(5) #5's CONT. w/ #5 TIES @ 12" o.c.	
B	4'-0"		1'-0"	(5) #5's CONT. w/ #5 TIES @ 12" o.c.	
C	5'-0"		1'-0"	(6) #5's CONT. w/ #5 TIES @ 12" o.c.	
D	6'-0"		1'-6"	(9) #6's CONT. w/ #5 TIES @ 18" o.c.	
E	8'-0"		1'-6"	(9) #7's CONT. w/ #5 TIES @ 12" o.c.	
F	4'-0"	4'-0"	1'-0"	(5) #5's EW BOTTOM	
G	6'-0"	6'-0"	1'-0"	(7) #5's EW T&B	
H	6'-6"	6'-6"	1'-6"	(7) #6's EW BOTTOM	
J	7'-0"	7'-0"	1'-2"	(8) #5's EW BOTTOM	
K	8'-6"	8'-6"	1'-4"	(9) #6's EW BOTTOM	
L	9'-6"	9'-6"	1'-6"	(10) #6's EW BOTTOM	
M	10'-0"	10'-0"	1'-8"	(11) #6's EW BOTTOM	
N	12'-0"	12'-0"	2'-0"	(14) #6's EW BOTTOM	
P	13'-0"	13'-0"	2'-2"	(14) #7's EW BOTTOM	
Q	9'-0"		1'-6"	(10) #5's CONT. w/ #5 TIES @ 16" o.c. T&B	



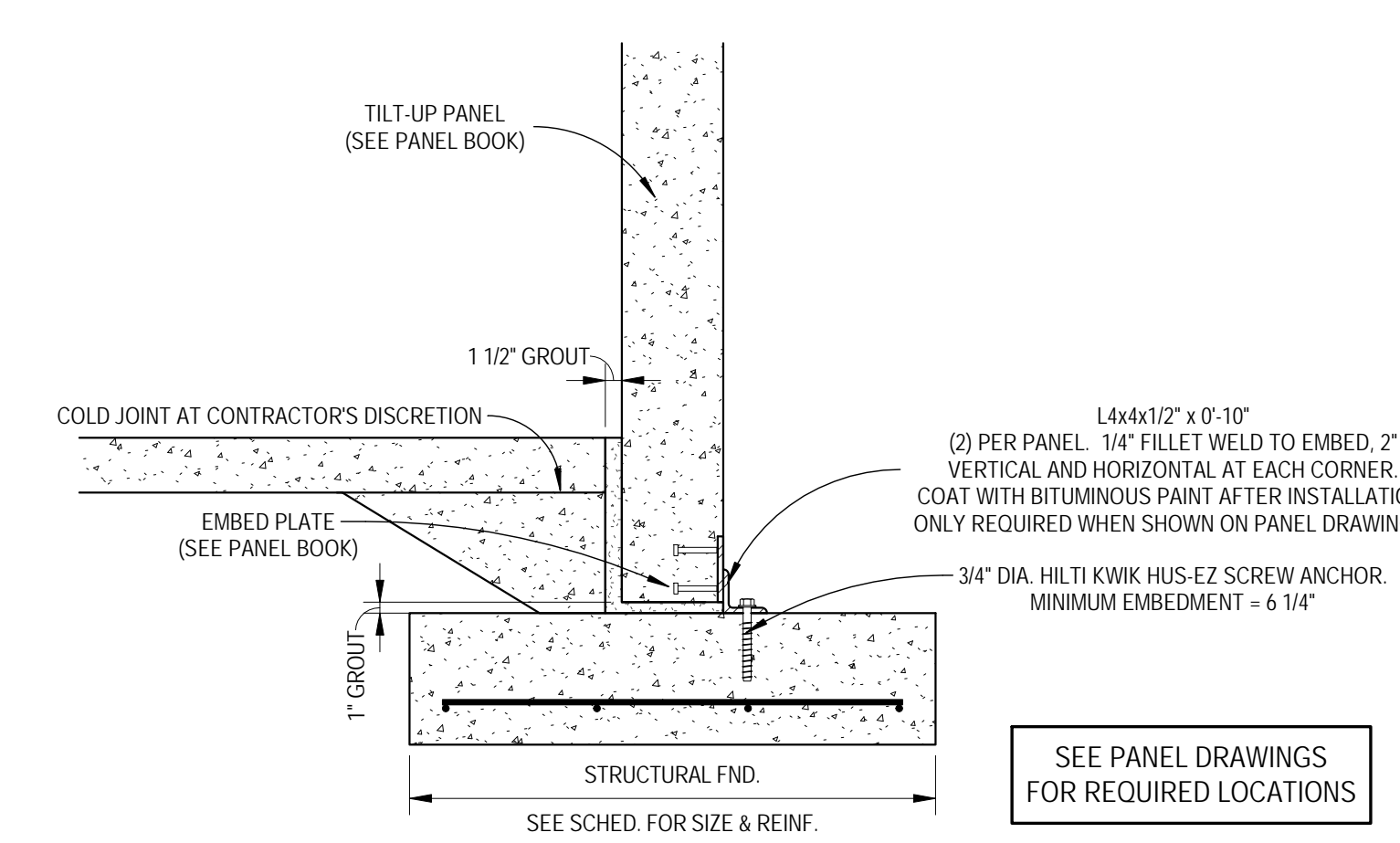
2 INTERIOR COLUMN FOUNDATION - SLEEVE (EOC)
3/4" = 1'-0"



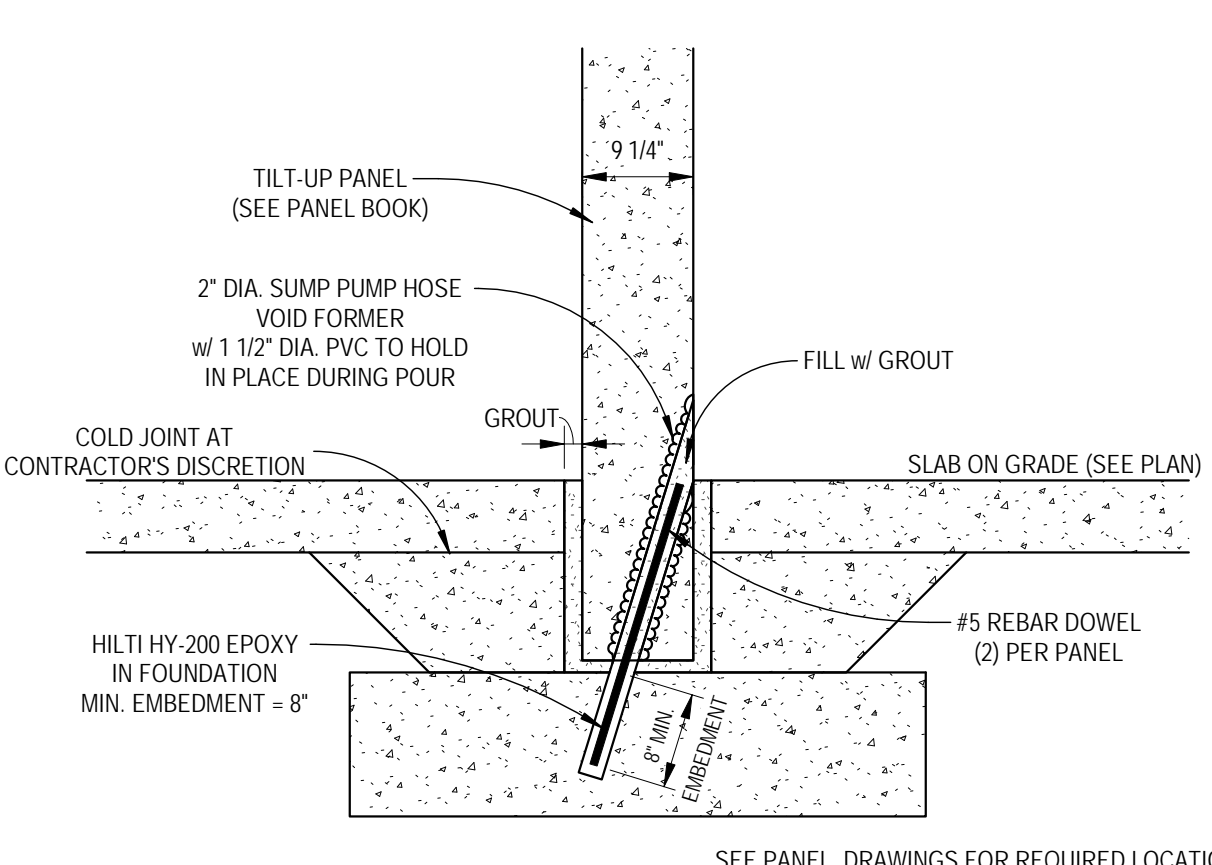
3 MUD SLAB DETAIL (EOC)
3/4" = 1'-0"



4 ANCHOR ROD DETAIL - SLEEVE (EOC)
1 1/2" = 1'-0"



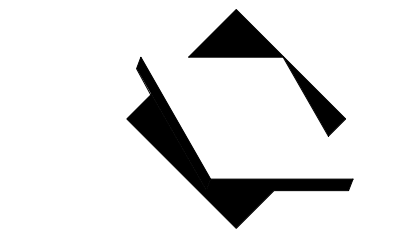
7 EXTERIOR WALL FOUNDATION - SCREW ANCHOR (EOC)
3/4" = 1'-0"



8 INTERIOR PANEL TO FOUNDATION CONNECTION (EOC)
3/4" = 1'-0"

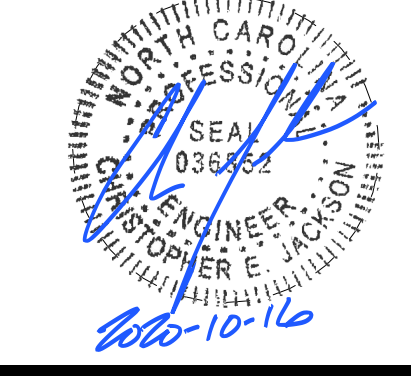
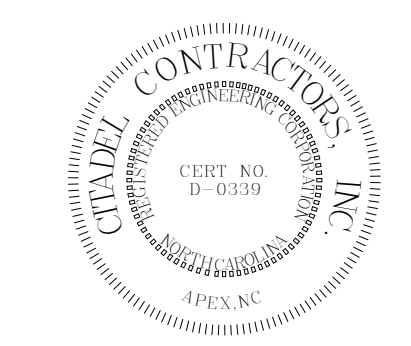


NEW HANOVER COUNTY



CITADEL
CONTRACTORS, INC.
3405 APEX PEAKWAY
APEX, N.C. 27502
TEL. 1-919-362-5122
FAX 1-919-362-6910

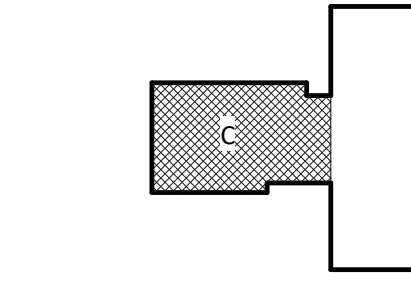
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NEW HANOVER COUNTY
GOVERNMENT CENTER
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
CITADEL PROJECT: C2015

A	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET

KEY PLAN:



SHEET NAME:
FOUNDATION PLAN -
AREA C (E.O.C.)

ORIG SUBMISSION: 2020.10.16
CURRENT REV.: 2020.10.16

DRAWN BY: M. FREW
APPROVED BY: CEJ
SHEET:

S11.0

C+S PERMIT SET



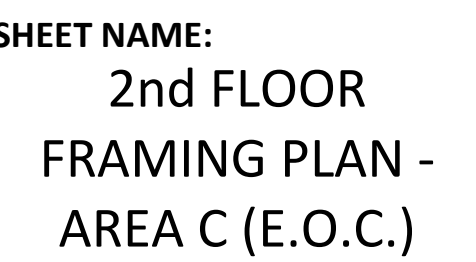
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WILMINGTON, NC 28403

CITIADEL PROJECT: C2015

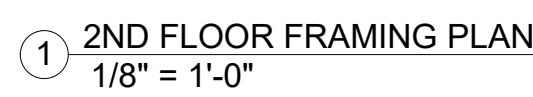
KEY PLAN:



DRAWN BY: M. FREW
APPROVED BY: CEJ
SHEET:

612.0

+S PERMIT SET



BEAM DESIGNATION _____ REQUIRED AMOUNT OF CAMBER _____

REQUIRED # OF 3/4" DIA. x 3 1/2" _____
SHEAR STUDS PER BEAM _____

GALVANIZED L8x8x1/2"x1'-0" w/ (2) STAINLESS STEEL
OR GALVANIZED 1/2" DIA. HILTI KWIK BOLT TZs @ 8" c/c
IN EACH ANGLE LEG, MINIMUM EMBEDMENT = 3 1/4"
PROVIDE ANGLES AT 3'-0", 8'-0", AND 13'-6" AFF

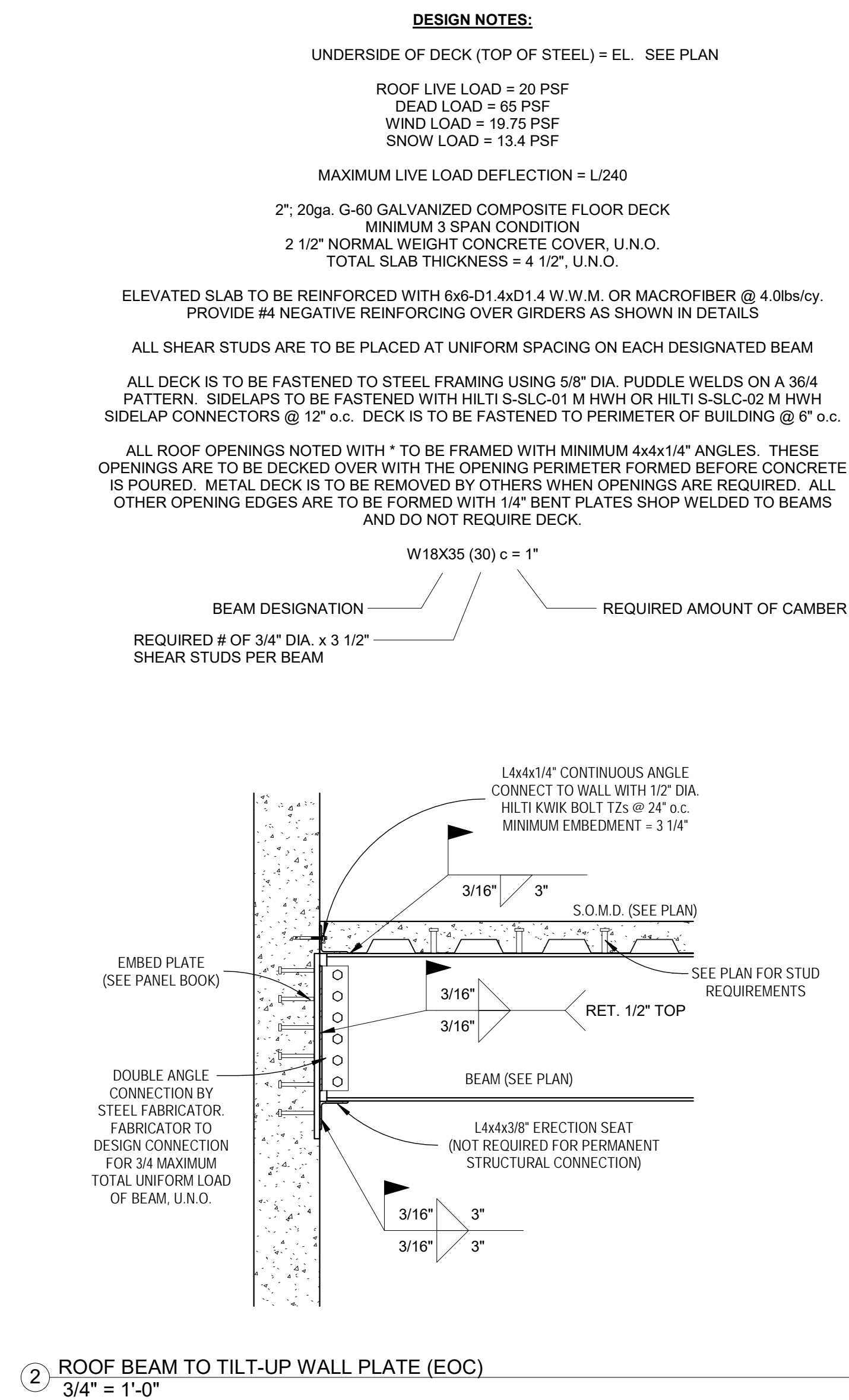
9 MECH. YARD - CLIP CONNECTION A
1/2" = 1'-0"

10 MECH. YARD - CLIP CONNECTION B
1/2" = 1'-0"

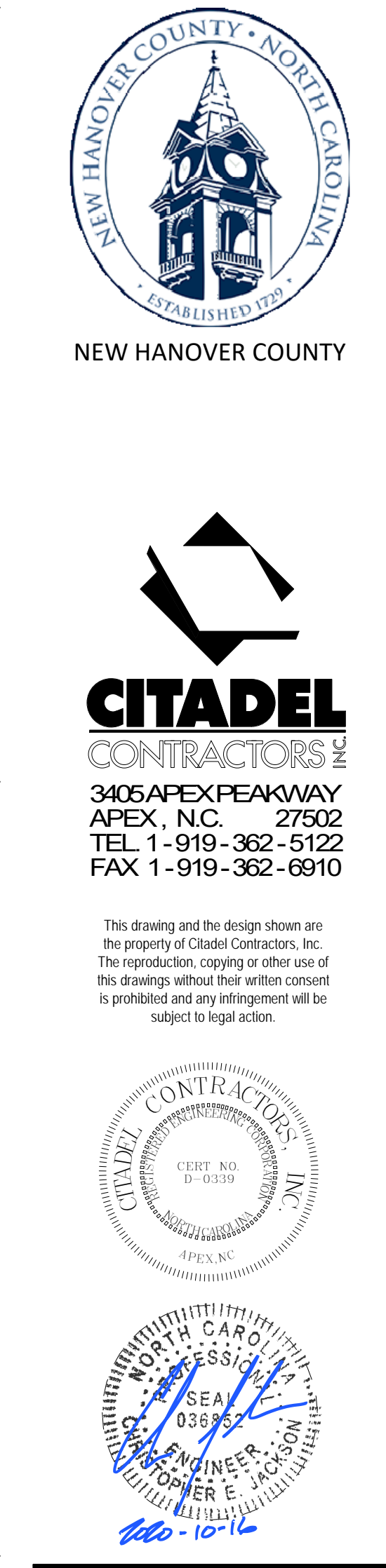
7 S.O.M.D EDGE DETAIL AT GUARDRAIL (EOC)
3/4" = 1'-0"

2ND FLR FRAMING DETAIL AT EOC & TOWER
3/4" = 1'-0"

10 MECH. YARD - CLIP CONNECTION B
1/2" = 1'-0"



② ROOF BEAM TO TILT-UP WALL PLATE (EOC)
3/4" = 1'-0"



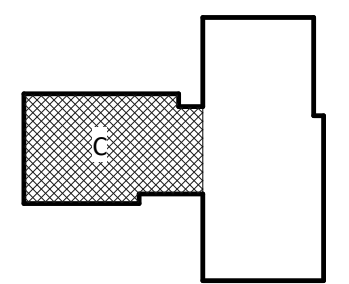
**NEW HANOVER COUNTY
GOVERNMENT CENTER**
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

CITADEL PROJECT: C2015

CITADEL PROJECT: C2015

[illegible]

KEY PLAN:



SHEET NAME:
ROOF FRAMING
PLAN - AREA C
(E.O.C.)

ORIG SUBMISSION: 2020.10.16
CURRENT REV.: 2020.10.16

DRAWN BY: M. FREW
APPROVED BY: CEJ
SHEET:

S12.1

C+S PERMIT SET



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GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

CITIADEL PROJECT: C2015

[illegible]

DRAWN BY: M. FREW
APPROVED BY: CEJ

S13.0

C+S PERMIT SET

