

The Foundation Plan shows a rectangular layout with the following details:

- Grid Lines:** Vertical grid lines are labeled A and B. Horizontal grid lines are labeled 1, 2, 3, 4, and 5.
- Dimensions:**
 - Overall width: 15'-0" (between grid lines A and B).
 - Overall length: 13'-0" (between grid lines 1 and 5).
 - Internal dimensions: 9'-6" (between grid lines 1 and 3), 8'-1" (between grid lines 3 and 4), and 4'-0" (between grid lines 4 and 5).
- Structural Details:**
 - 4x4 POST W/ HDU2:** Located at the corners and along the grid lines. Typical sections are indicated by callouts like (1/S3) and (2/S3).
 - CF1:** Concrete Foundation 1, shown as a dashed line around the perimeter.
 - CF2:** Concrete Foundation 2, shown as a dashed line along the bottom edge.
 - CF3:** Concrete Foundation 3, shown as a dashed line along the right edge.
- Other Features:**
 - A north arrow is located at the bottom center.
 - The title "FOUNDATION PLAN" is at the bottom center.
 - Various typical section callouts (e.g., (1/S3), (2/S3), (3/S3), (4/S3)) are distributed throughout the plan.

A FOUNDATION PLAN
SCALE: 3/8" : 1'-0"

[illegible]

B ROOF FRAMING PLAN
SCALE: 3/8" : 1'-0"

FOOTING SCHEDULE				
NAME	WIDTH (IN.)	LENGTH (IN.)	DEPTH (IN.)	REBAR
CF1	12	---	24	(2)-#4 T&B, TYP.

SLAB-ON-GRADE SCHEDULE			
NAME	THICKNESS (IN.)	REBAR	NOTES
S1	4	#4 @ 16" OC EW	W/ MIN 6 MIL VAPOR BARRIER W/ 4" BASE OF CLEAN AGGREGATE, 1/2" OR LARGER

[illegible]

68195	D,	RESIDENCE
CA	C	
	4	

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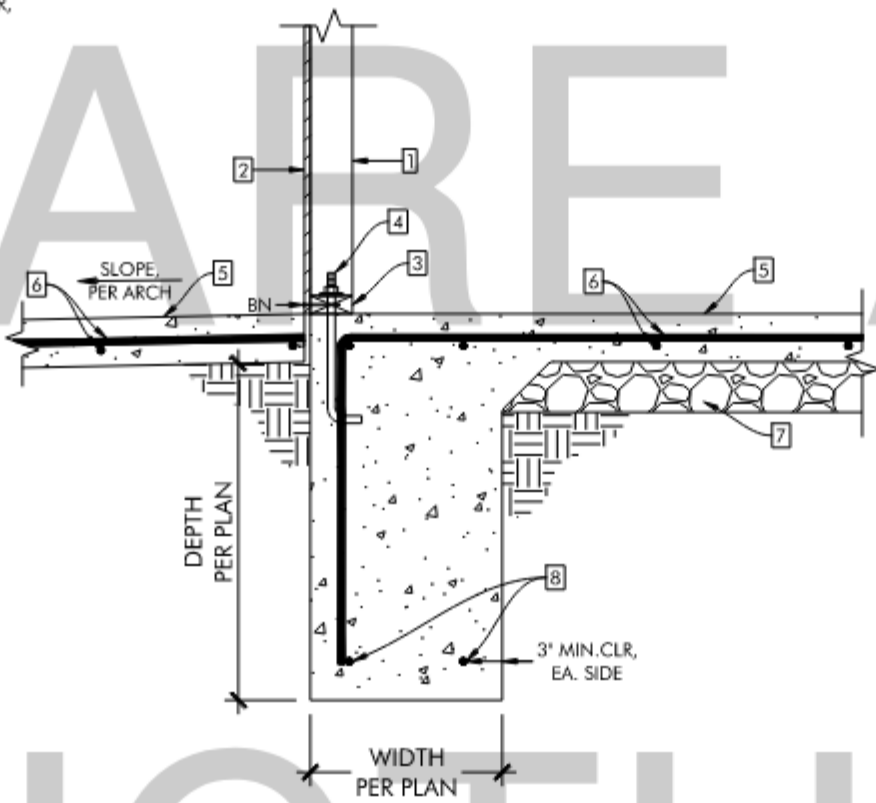
FOUNDATION & ROOF FRAMING PLANS

DRAWN BY
MOUSTAPHA NEGM
CHECKED BY
OSVALDO MEZA
DATE
07/21/2023
SCALE
AS NOTED

SHEET

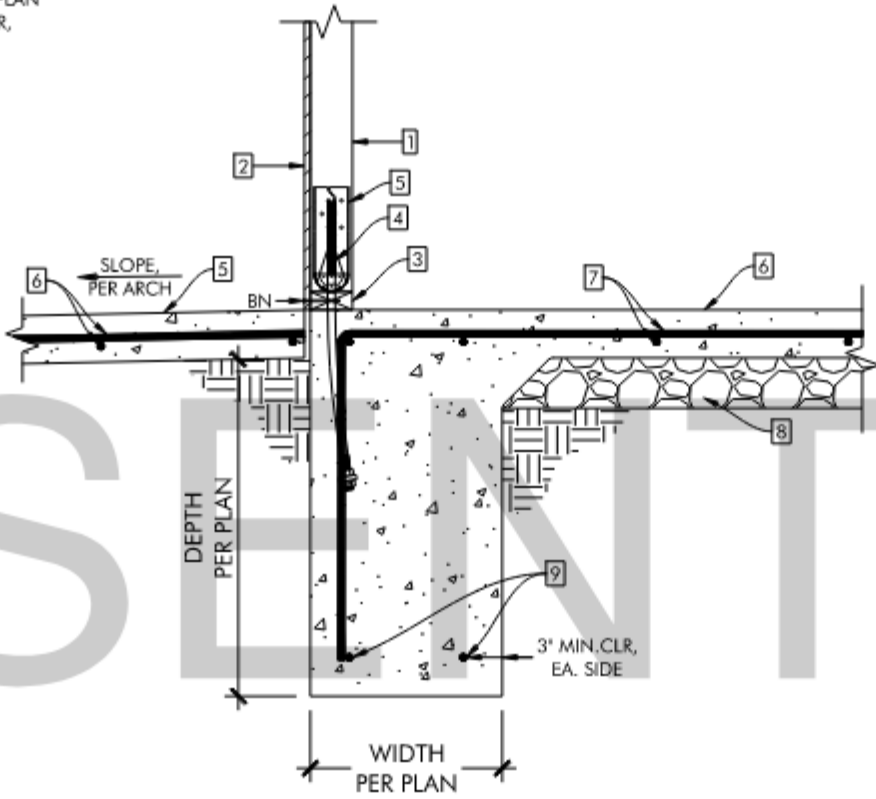
S2

1. 2x STUD WALL
2. WALL SHTH'G, PER PLAN
3. 2x SILL PT PLATE
4. 3/4" ABx10" @ 6" OC MAX
5. SLAB-ON-GRADE, PER PLAN
6. SLAB-ON-GRADE REBAR, PER PLAN
7. SUBGRADE & VAPOR BARRIER, PER PLAN
8. FTG REBAR, PER PLAN



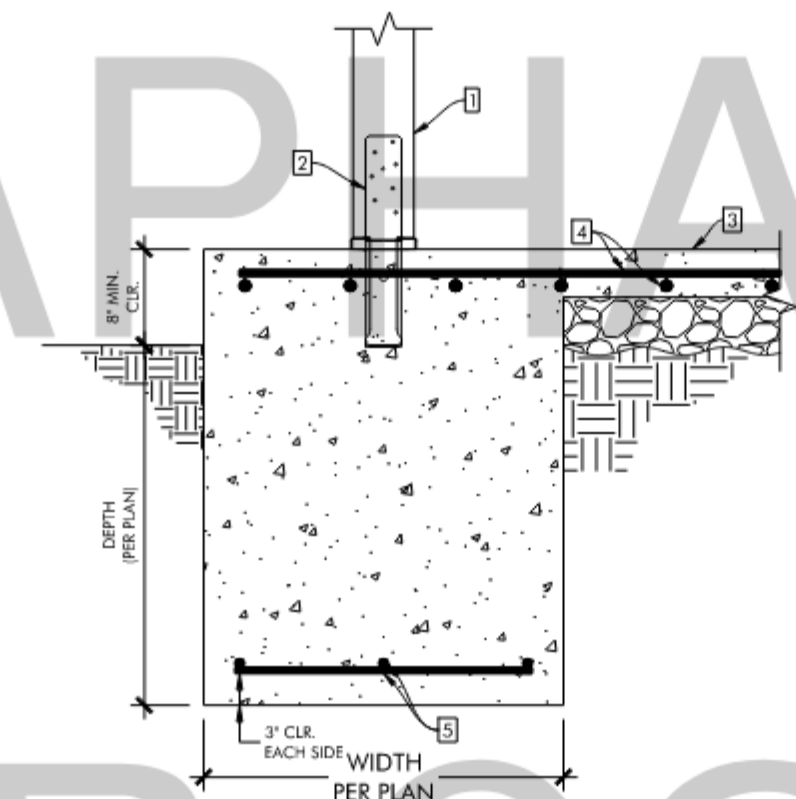
9 EXT. FT'G, W/ EXT. SLAB
SCALE: 3/4" : 1'-0"

1. POST, PER PLAN
2. WALL SHTH'G, PER PLAN
3. 2x SILL PT PLATE
4. SIMP. SB, PER SWS
5. HDU, PER PLAN
6. SLAB-ON-GRADE, PER PLAN
7. SLAB-ON-GRADE REBAR, PER PLAN
8. SUBGRADE & VAPOR BARRIER, PER PLAN
9. FTG REBAR, PER PLAN



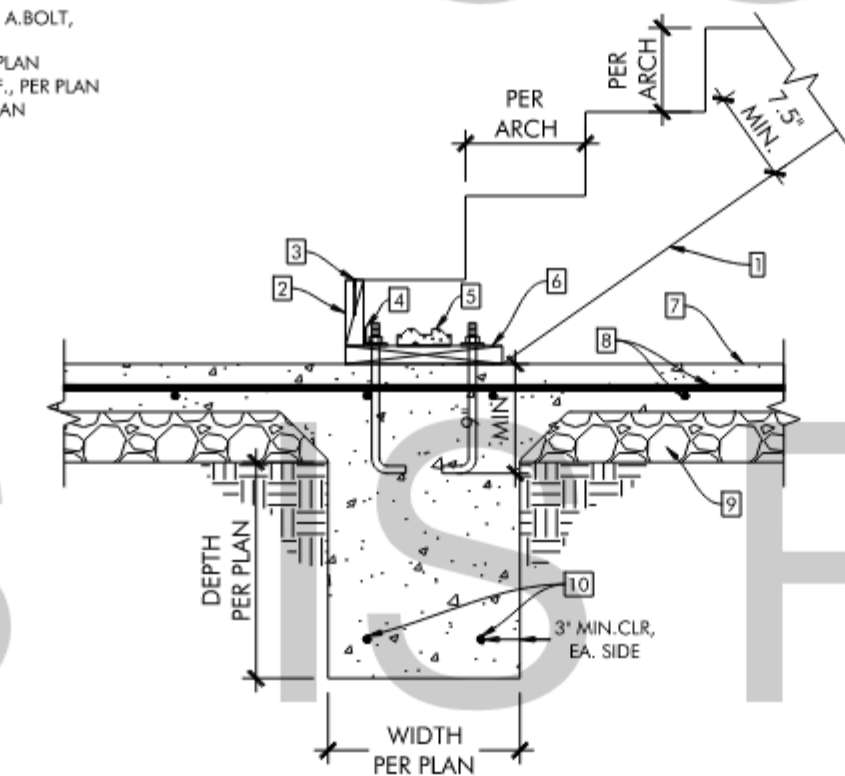
10 HDU, @ EXT. FT'G, W/ EXT. SLAB
SCALE: 3/4" : 1'-0"

1. POST, PER PLAN
2. SIMP. CBSQ, PER PLAN
3. SLAB-ON-GRADE, PER PLAN
4. SLAB-ON-GRADE REINF., PER PLAN
5. FTG REBAR, PER PLAN



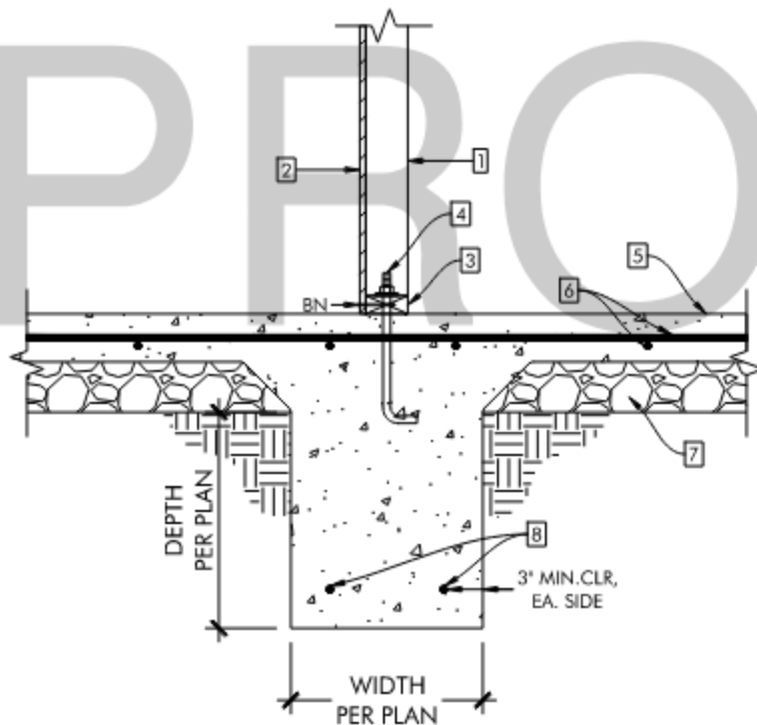
11 PAD FT'G
SCALE: 3/4" : 1'-0"

1. STRINGERS, PER PLAN
2. 2x BLK'G
3. 10d NAIL @ 4" OC
4. A35, @ 16" OC
5. A35, @ EA STRINGER
6. 2x PT SILL PL W/ (2) 1/2" A BOLT, 9" EMBED. @ 48" OC
7. SLAB-ON-GRADE, PER PLAN
8. SLAB-ON-GRADE REINF., PER PLAN
9. VAPOR BARRIER, PER PLAN
10. FTG REBAR, PER PLAN



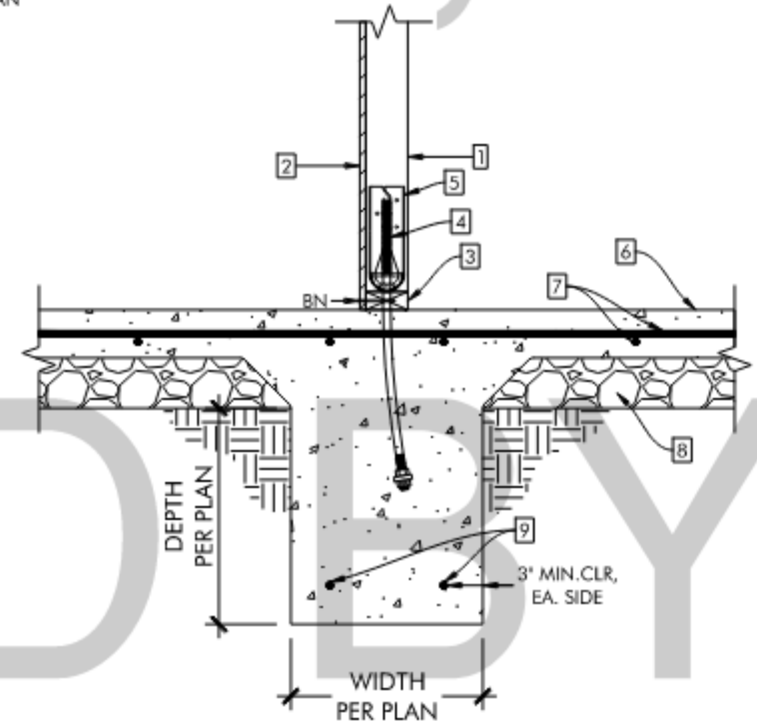
12 STAIR FT'G
SCALE: 3/4" : 1'-0"

1. 2x STUD WALL
2. WALL SHTH'G, PER PLAN
3. 2x SILL PT PLATE
4. 3/4" ABx10" @ 6" OC MAX
5. SLAB-ON-GRADE, PER PLAN
6. SLAB-ON-GRADE REBAR, PER PLAN
7. SUBGRADE & VAPOR BARRIER, PER PLAN
8. FTG REBAR, PER PLAN



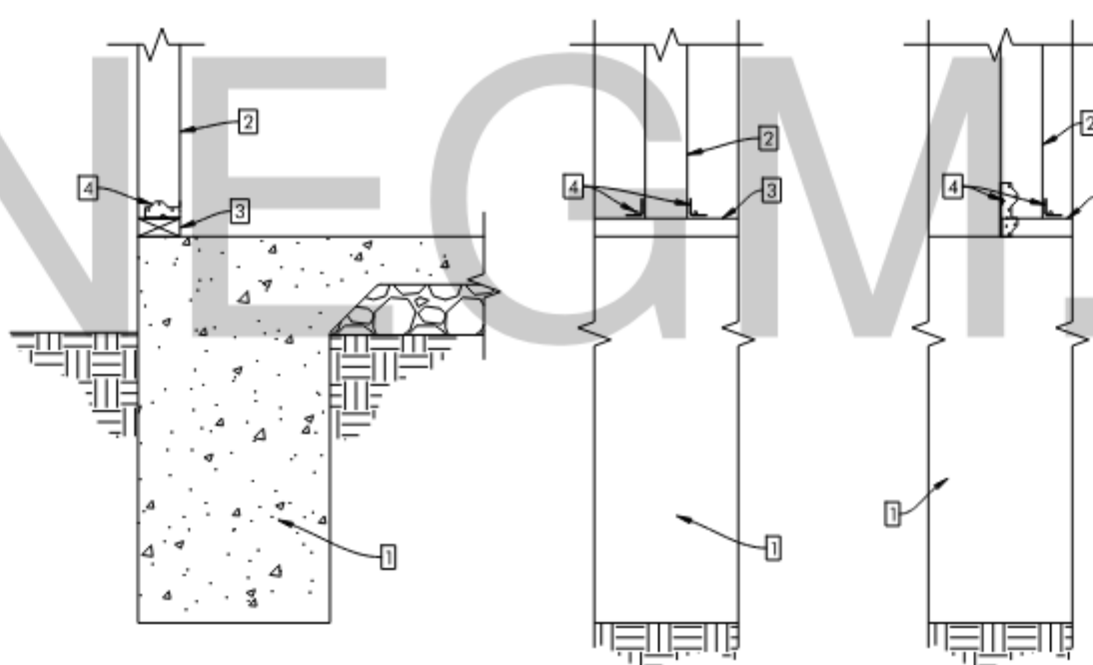
5 INT. FT'G
SCALE: 3/4" : 1'-0"

1. POST, PER PLAN
2. WALL SHTH'G, PER PLAN
3. 2x SILL PT PLATE
4. SIMP. SB, PER SWS
5. HDU, PER PLAN
6. SLAB-ON-GRADE, PER PLAN
7. SLAB-ON-GRADE REBAR, PER PLAN
8. SUBGRADE & VAPOR BARRIER, PER PLAN
9. FTG REBAR, PER PLAN



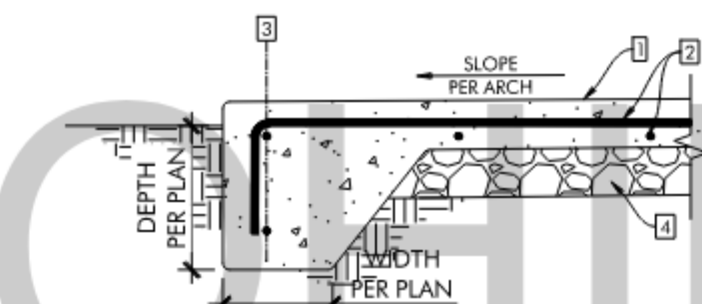
6 HDU, @ INT. FT'G
SCALE: 3/4" : 1'-0"

1. FTG, PER PLAN
2. POST, PER PLAN
3. 2x SILL PT PLATE
4. A35, @ EA. SIDE



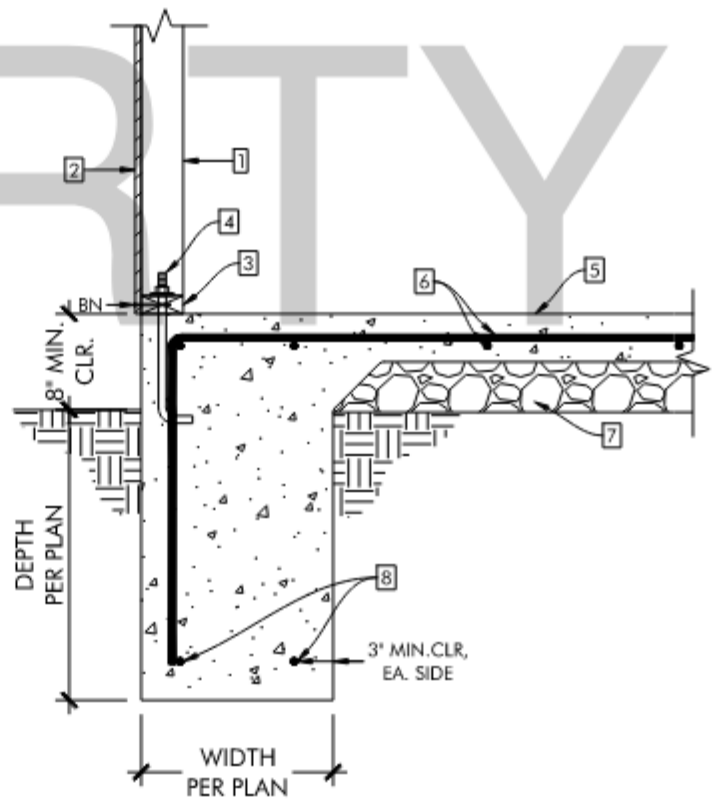
7 TYP. POST - SILL PL CONN.
SCALE: 3/4" : 1'-0"

1. SLAB-ON-GRADE, PER PLAN
2. SLAB-ON-GRADE REBAR, PER PLAN
3. THICKENED EDGE REBAR, PER PLAN
4. SUBGRADE & VAPOR BARRIER, PER PLAN



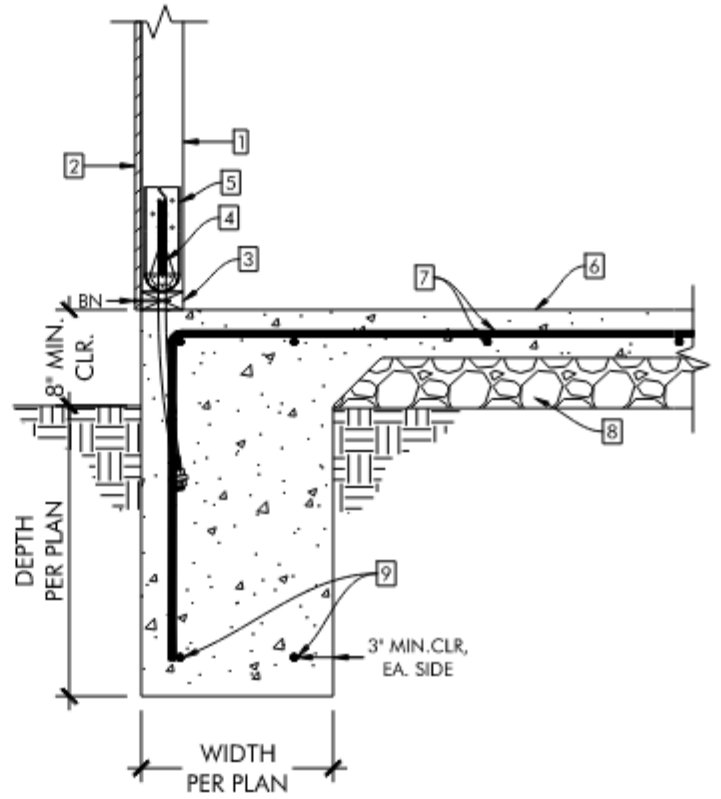
8 SLAB-ON-GRADE THICKENED EDGE
SCALE: 3/4" : 1'-0"

1. 2x STUD WALL
2. WALL SHTH'G, PER PLAN
3. 2x SILL PT PLATE
4. 3/4" ABx10" @ 6" OC MAX
5. SLAB-ON-GRADE, PER PLAN
6. SLAB-ON-GRADE REBAR, PER PLAN
7. SUBGRADE & VAPOR BARRIER, PER PLAN
8. FTG REBAR, PER PLAN



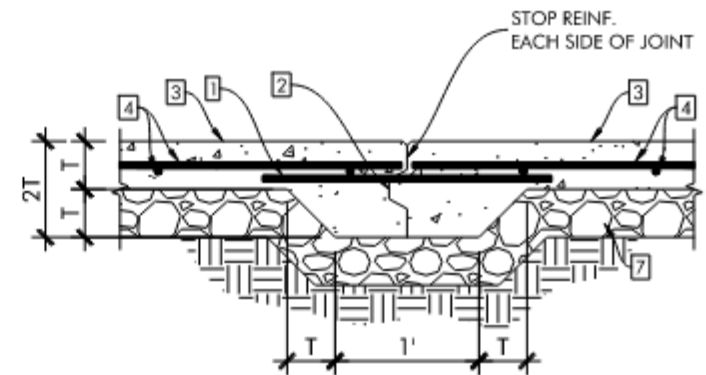
1 EXT. FT'G
SCALE: 3/4" : 1'-0"

1. POST, PER PLAN
2. WALL SHTH'G, PER PLAN
3. 2x SILL PT PLATE
4. SIMP. SB, PER SWS
5. HDU, PER PLAN
6. SLAB-ON-GRADE, PER PLAN
7. SLAB-ON-GRADE REBAR, PER PLAN
8. SUBGRADE & VAPOR BARRIER, PER PLAN
9. FTG REBAR, PER PLAN



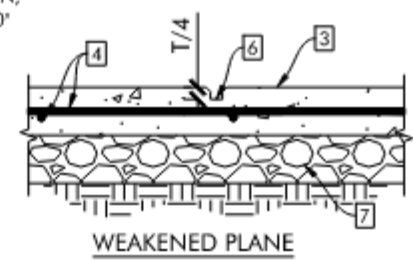
2 HDU, @ EXT. FT'G
SCALE: 3/4" : 1'-0"

1. #4x24" SMOOTH DWL @ 16" OC W/ GREASE @ ONE END
2. KEYED JOINT
3. SLAB-ON-GRADE, PER PLAN
4. SLAB-ON-GRADE REBAR, PER PLAN
5. SUBGRADE AND VAPOR BARRIER, PER PLAN
6. WEAKENED PLANE CREATED BY REMOVABLE PLASTIC JOINT STRIP OR SAW CUT JOINT WHICH MUST BE MADE WITHIN 24 HRS OF SLAB POURING
7. SUBGRADE AND VAPOR BARRIER, PER PLAN



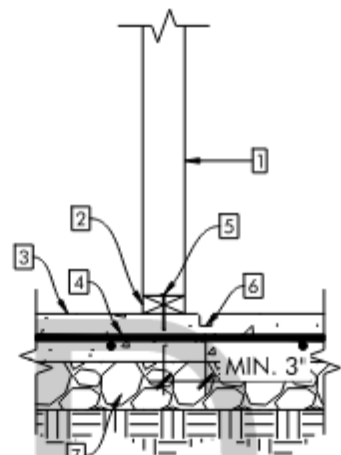
NOTES:-

1. "T" IS THE SLAB THICKNESS (PER PLAN)
2. ALL SLAB REINFORCING STEEL ARE AS CALLED FOR ON PLAN
3. PROVIDE CONSTRUCTION JOINT AND WEAKENED PLANE AS CALLED FOR BY SPECIFICATION OR AS SHOWN ON PLAN, BUT WEAKENED PLANE NOT TO EXCEED SPACING OF 10'-0"

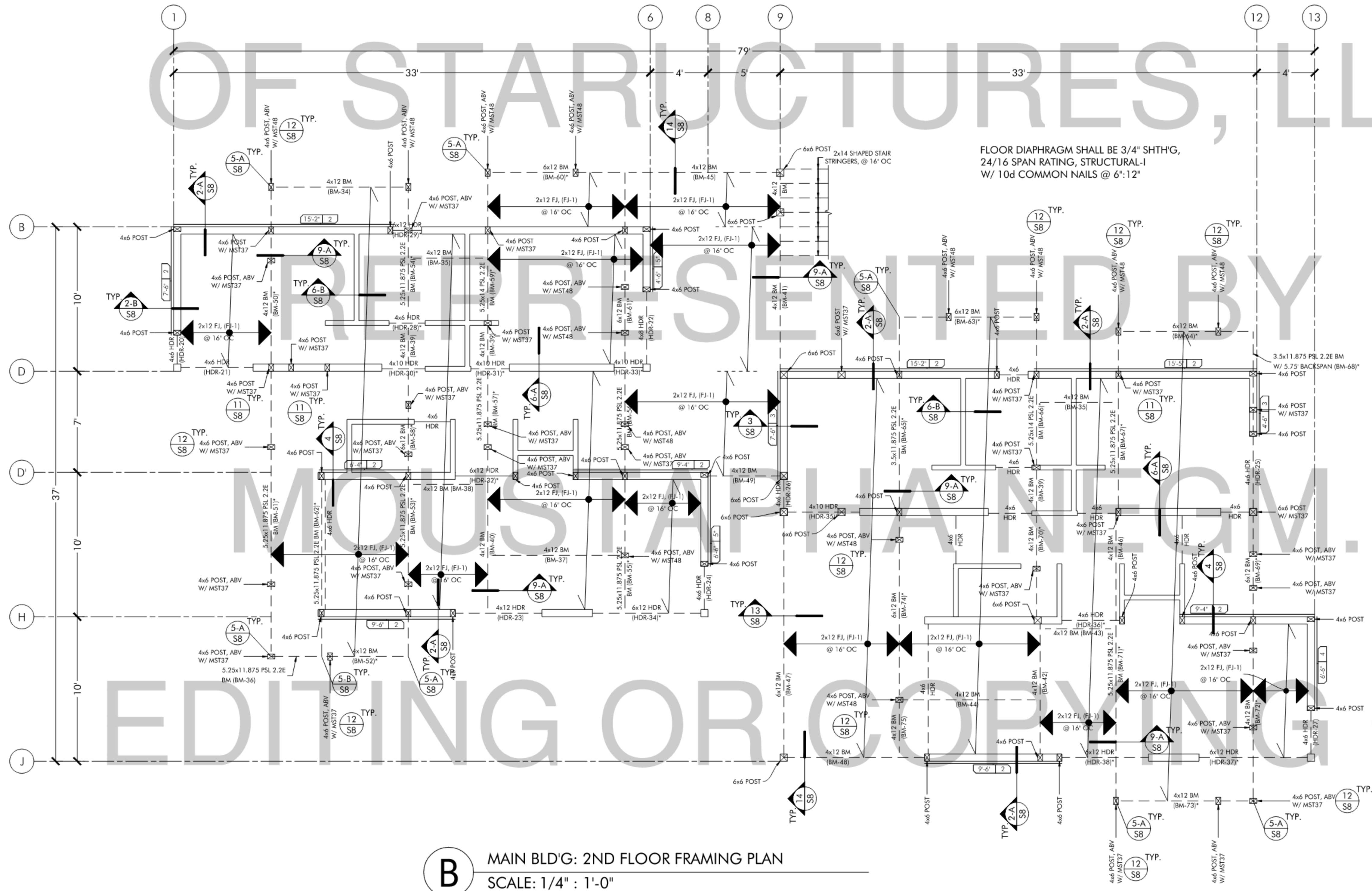


3 TYP. SLAB-ON-GRADE DETAILS
SCALE: 3/4" : 1'-0"

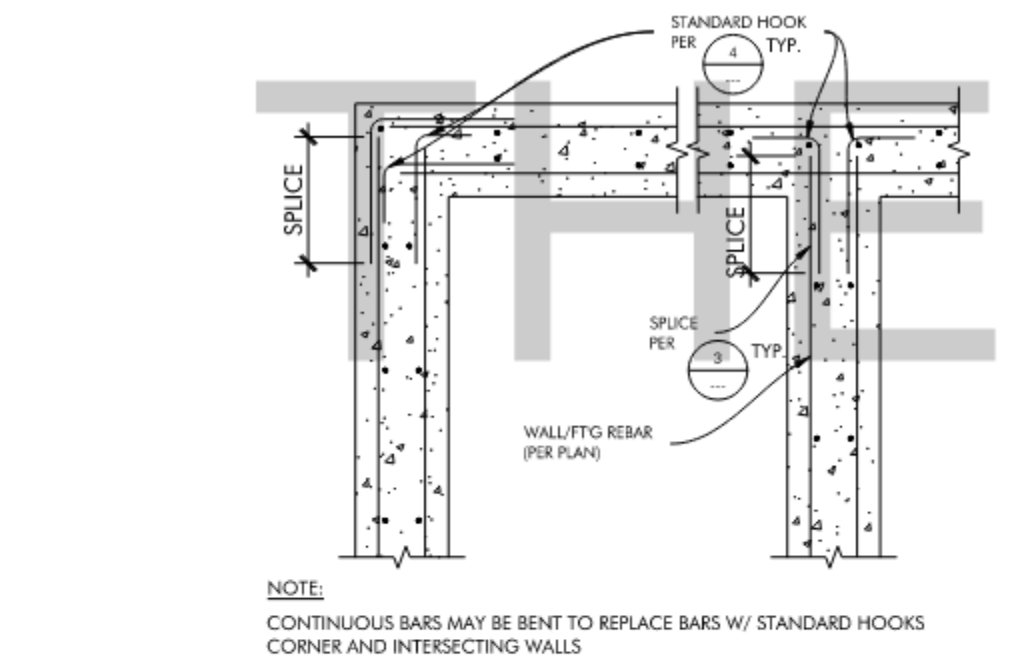
1. 2x STUD WALL
2. 2x SILL PT PLATE
3. SLAB-ON-GRADE, PER PLAN
4. SLAB-ON-GRADE REBAR, PER PLAN
5. HILTI X.L.U POWDER DRIVEN FASTENERS @ 32" OC, 1.5" MIN. EMBED. (6" MAX FROM ENDS) PER ICC ESR-2269
6. CONSTRUCTION JOINT, PER DETAIL 3/-
7. SUBGRADE & VAPOR BARRIER, PER PLAN



4 INT. PARTITION - BOT. CONN.
SCALE: 3/4" : 1'-0"



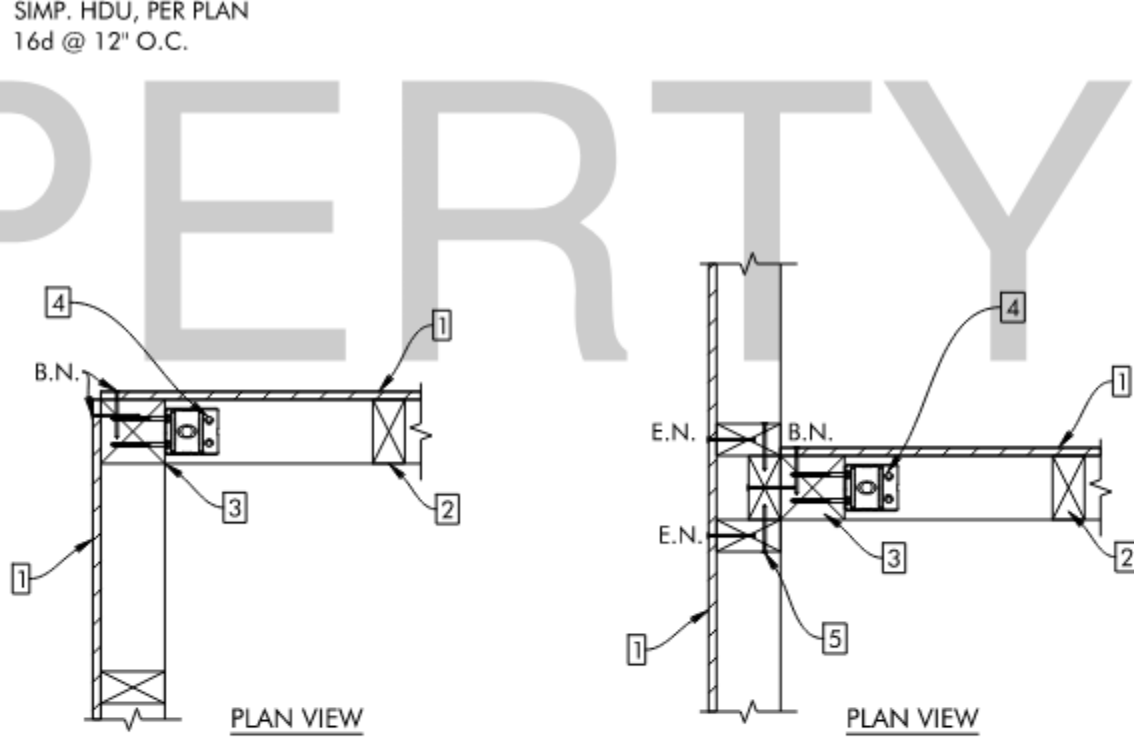
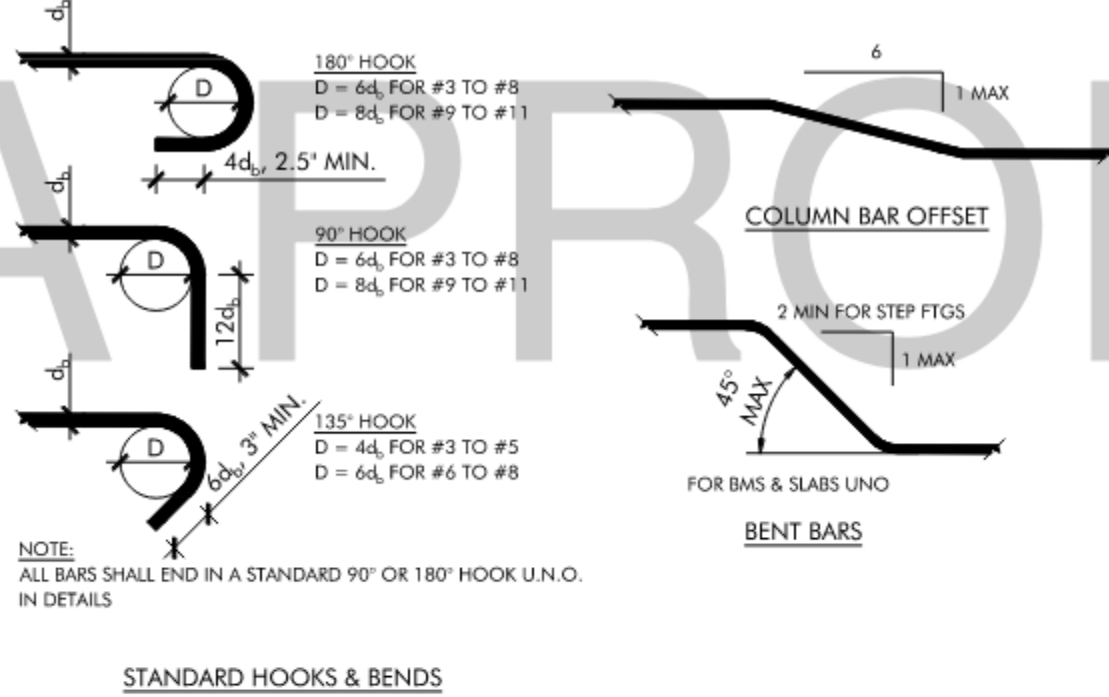
MAIN BLD'G: 2ND FLOOR FRAMING PLAN
SCALE: 1/4" : 1'-0"



CONCRETE COVER SCHEDULE (ACI 318-14 TABLE 20.6.1.3.1)			
CONCRETE EXPOSURE	MEMBER	REINFORCEMENT SIZE	CONCRETE COVER, IN.
CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	ALL	ALL	3
	ALL	#6 & LARGER	2
EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	ALL	#5 & SMALLER	1-1/2
	ALL	#14 & LARGER	1-1/2
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	SLABS, JOISTS, AND WALLS	#11 & SMALLER	3/4
	BEAMS, & COLUMNS	ALL	1-1/2

MINIMUM REBAR SPLICE LENGTH		
REBAR SIZE	SPLICE LENGTH (F _c = 2.5 KSI)	SPLICE LENGTH (F _c = 3.0 KSI)
#3	19"	17"
#4	25"	23"
#5	31"	28"
#6	37"	34"
#7	54"	49"
#8	61"	56"
#9	69"	63"

MINIMUM BAR SPACING: 4x BAR DIAMETER



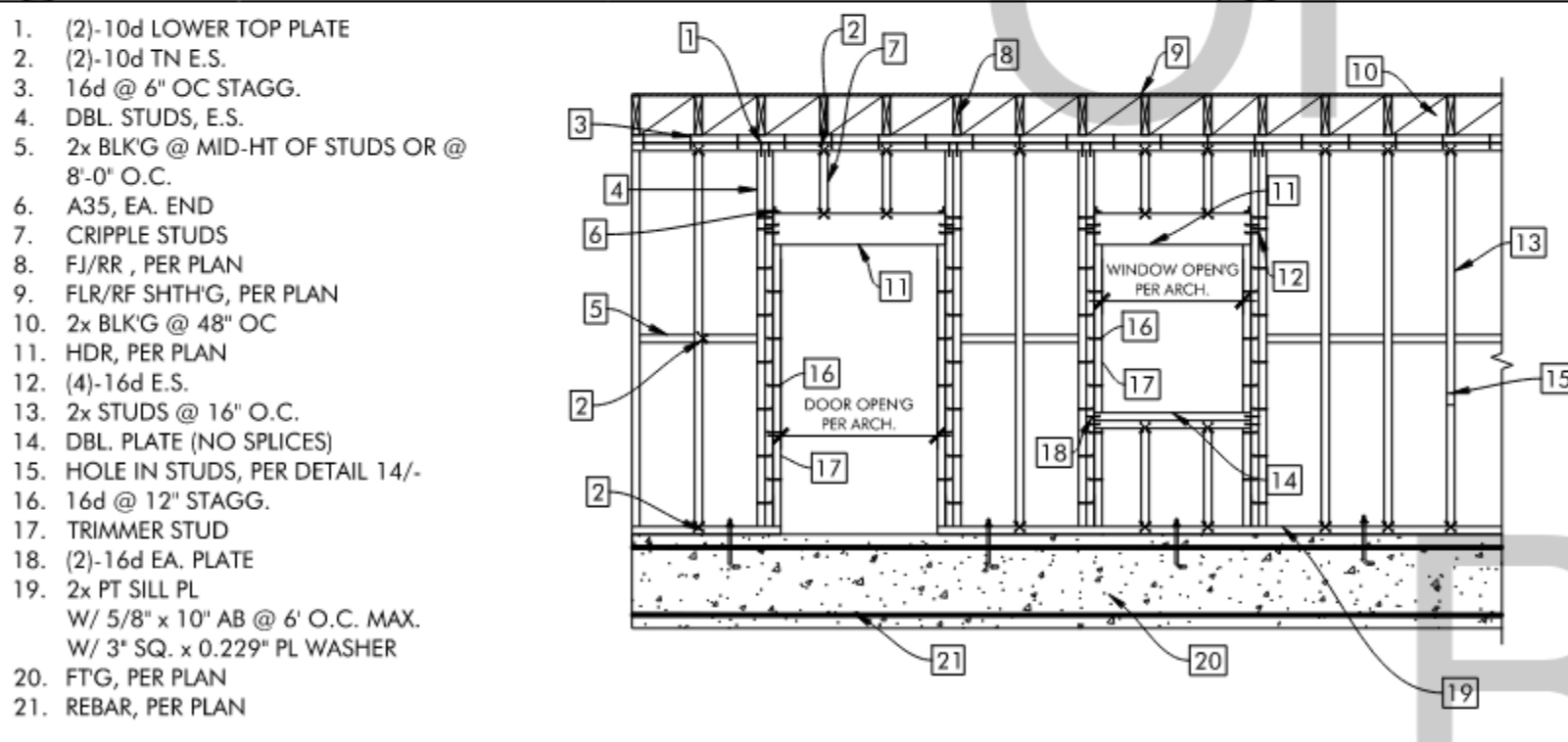
1 TYP. WALL/FT'G INTERSECTION
SCALE: NTS

2 TYP. CLEAR COVER SCHEDULE
SCALE: NTS

3 TYP. SPLICE SCHEDULE
SCALE: NTS

4 TYP. HOOKS & BENDS
SCALE: NTS

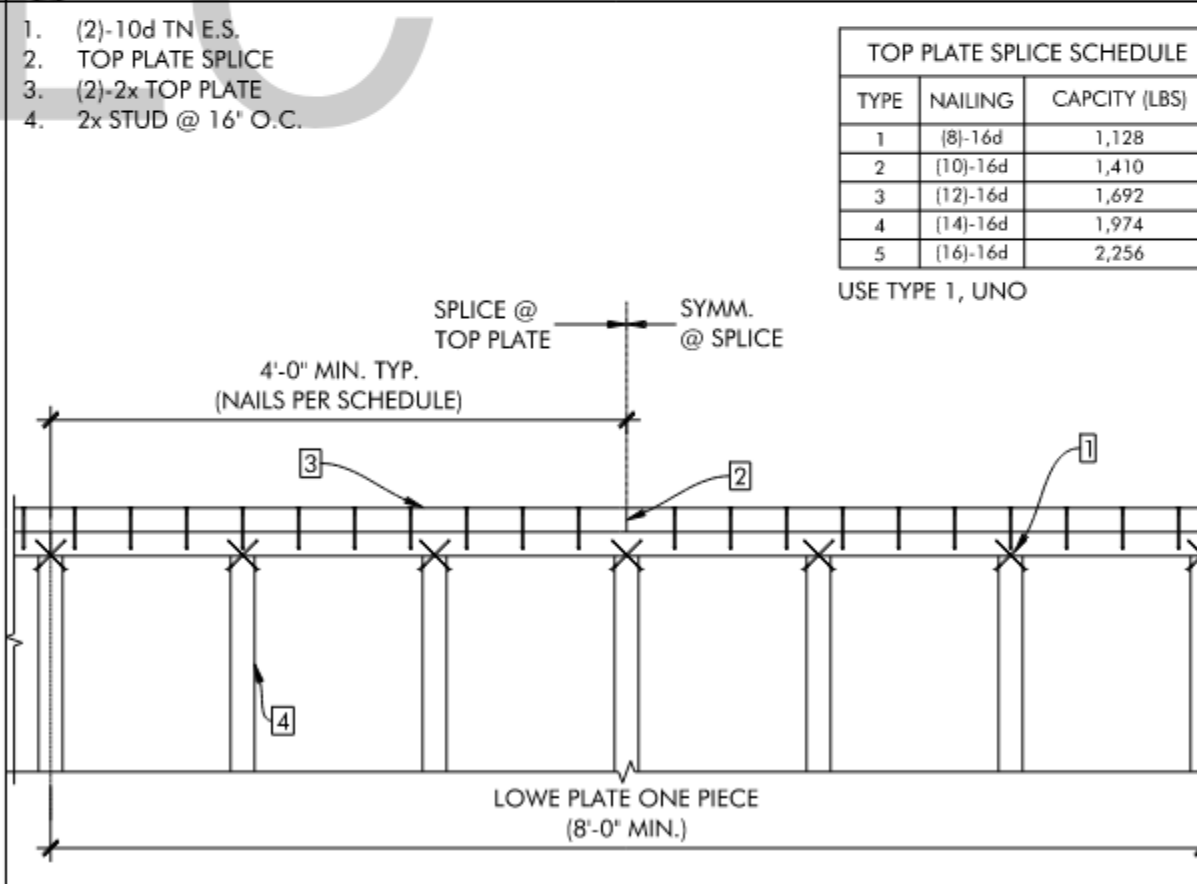
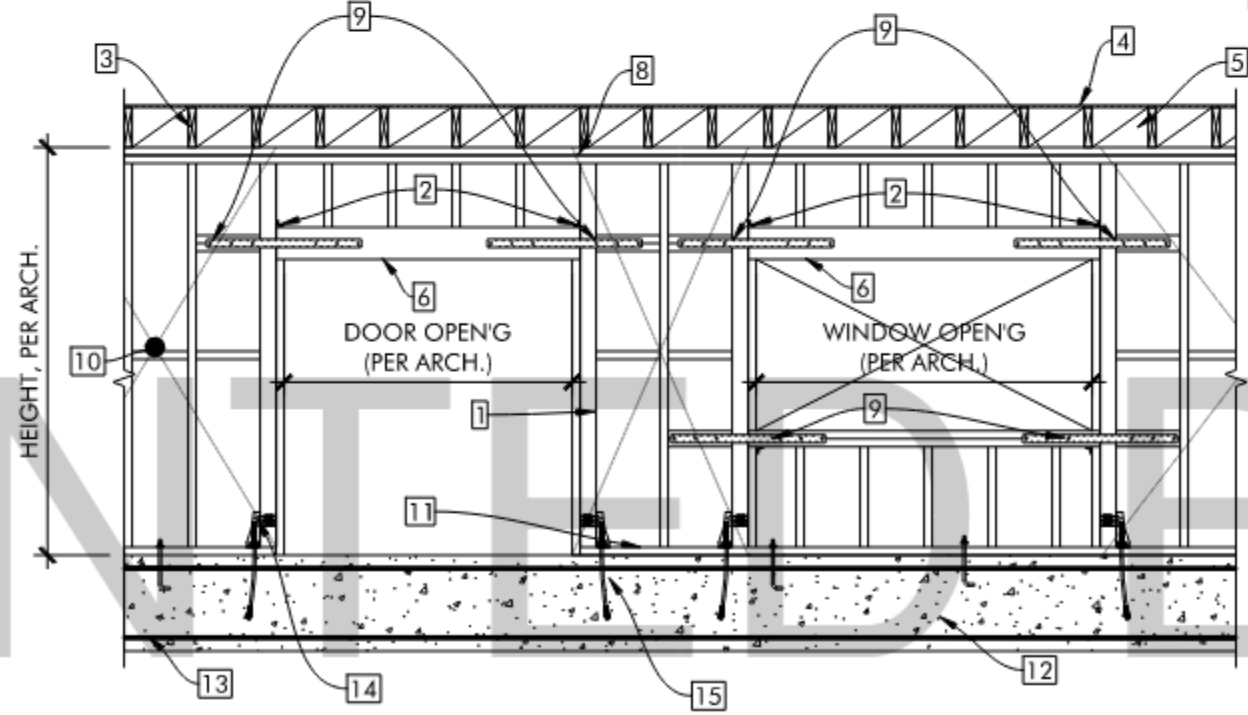
5 TYP. SHEAR WALLS INTERSECTION
SCALE: NTS



HEADER SCHEDULE		
CLEAR OPENING	MIN. HEADER SIZE	REMARKS
UP TO 4'-0"	4x4	---
4'-1" TO 6'-0"	4x6	---
6'-1" TO 8'-0"	4x8	---
8'-1" TO 10'-0"	4x10	USE DBL. TRIMMER

NOTE:
1. USE ABOVE SCHEDULE SIZES ONLY WHERE SIZE IS NOT INDICATED ON PLANS OR DETAILS.
2. PROVIDE 2X TRIMMER AND KING STUD, TYPICAL U.N.O. NAILING PER NAILING SCHEDULE.

- POST, PER PLAN
- A35, EA. CORNER
- FJ/RR, PER PLAN
- FLR/RF SHTH'G, PER PLAN
- 2x BLK'G @ 48" OC
- HDR, PER PLAN
- 2x STUDS @ 16" O.C.
- DBL. TOP PLATES
- SIMP. MST37 TYP. (MIN.)
- WALL SHTH'G, PER PLAN
- 2x PT SILL PL
- W/ 5/8" x 10" AB @ 6" O.C. MAX.
- W/ 3" SQ. x 0.229" PL WASHER
- FTG, PER PLAN
- REBAR, PER PLAN
- SIMP. HDU, PER PLAN
- SIMP. SB AB, PER HOLD-DOWN SCHED.



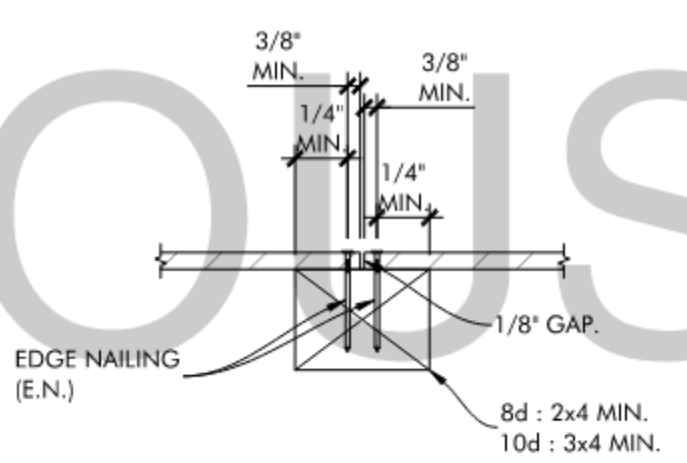
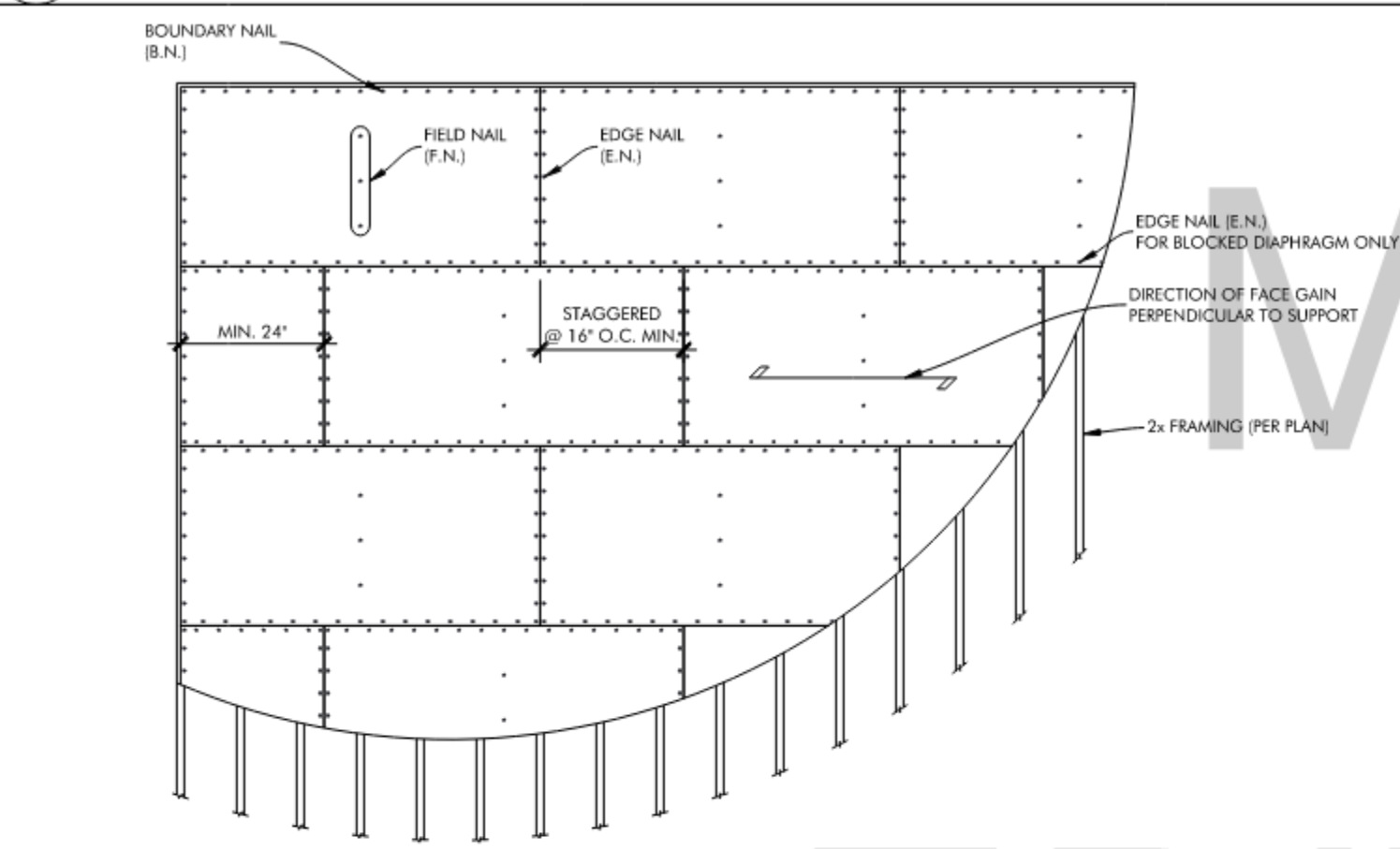
TOP PLATE SPLICE SCHEDULE		
TYPE	NAILING	CAPACITY (LBS)
1	(8)-16d	1,128
2	(10)-16d	1,410
3	(12)-16d	1,692
4	(14)-16d	1,974
5	(16)-16d	2,256

USE TYPE 1, UNO

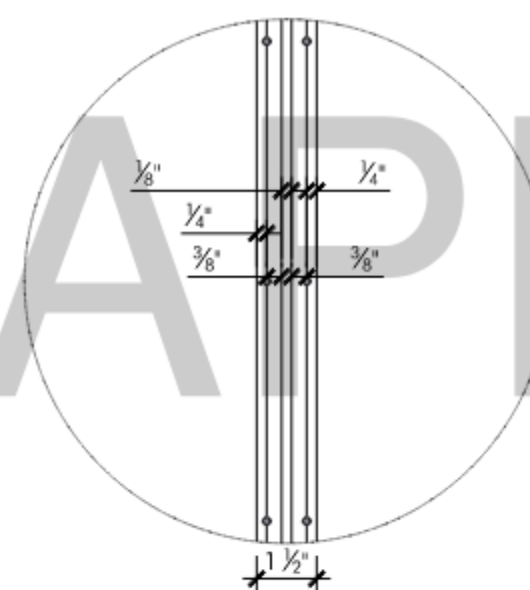
6 TYP. STUD WALL FRAMING & HEADER SCHEDULE
SCALE: NTS

7 TYP. SHEAR WALL FRAMING
SCALE: NTS

8 TYP. TOP PLATE SPLICE
SCALE: NTS



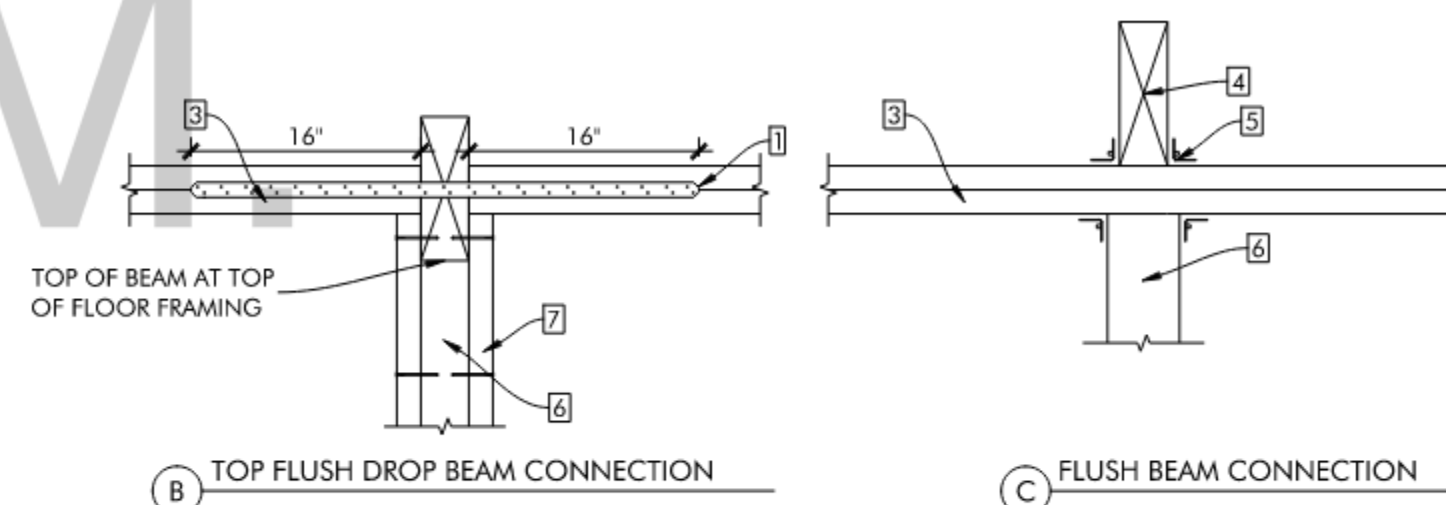
BLOCKED DIAPHRAGM NAILING



PANEL JOINT NAILING

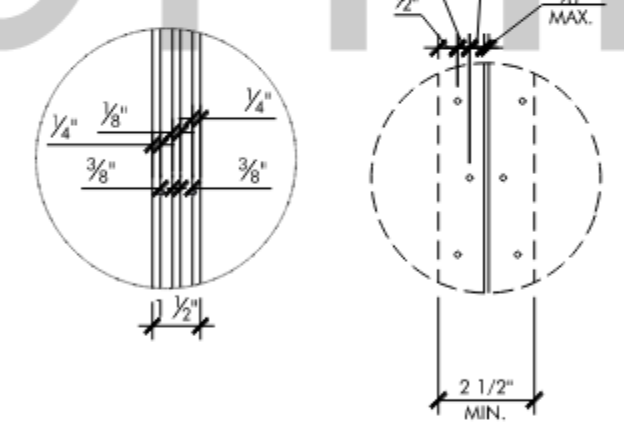
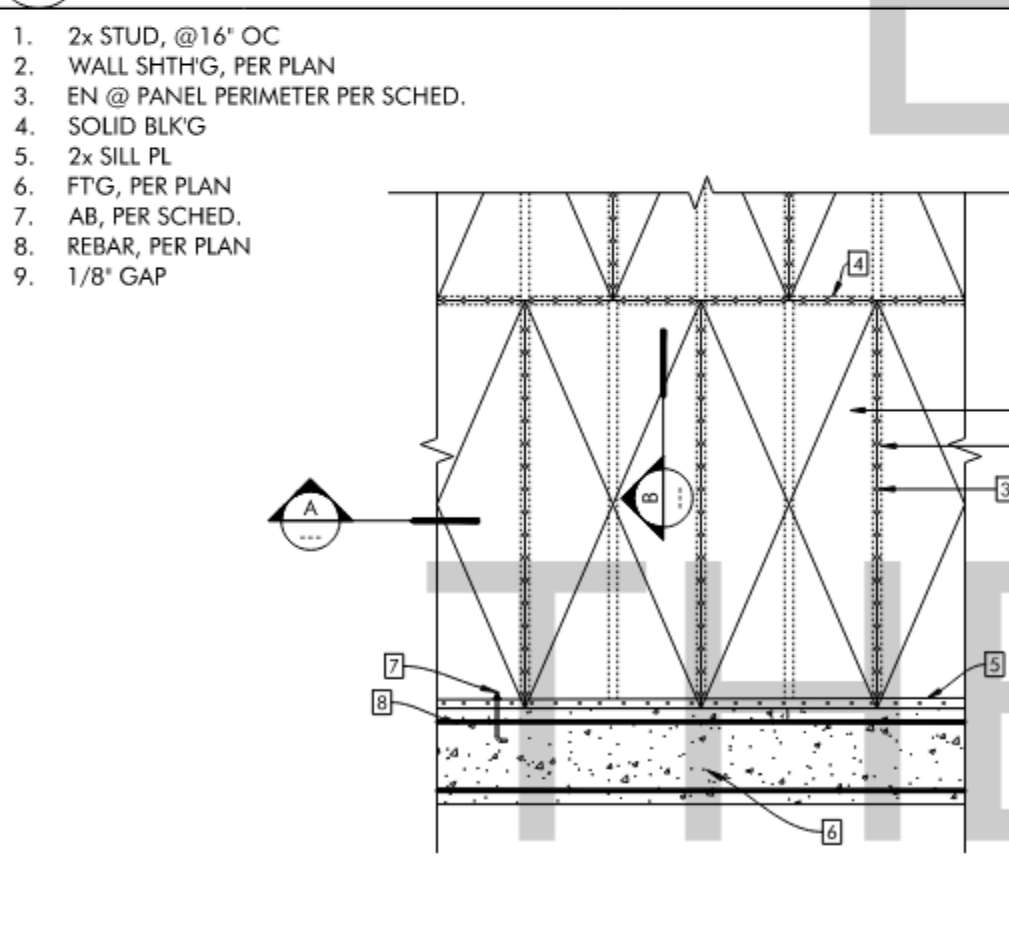
- (1) CS16 STRAP W/ (15)-8d NAILS MIN. EACH SIDE OF BEAM. EXTEND THE STRAP 16" PAST EACH SIDE OF BEAM
- DROP BM, PER PLAN
- TOP PLATES
- FLUSH BM, PER PLAN
- A35, @ EA. SIDE, TOP & BOTTOM
- POST, PER PLAN
- 2x STUD @ EA SIDE OF POST W/ 16d NAIL @ 12" OC TO POST

FOR BEAMS W/ DEPTH LESS THAN OR EQUAL 8", PROVIDE (2)-16d NAILS MIN. ADD (1)-16d NAIL ON EACH SIDE FOR EVERY 2" OF DEPTH



9 TYP. SHEATHING LAYOUT
SCALE: NTS

10 BEAM CONNECTIONS
SCALE: NTS

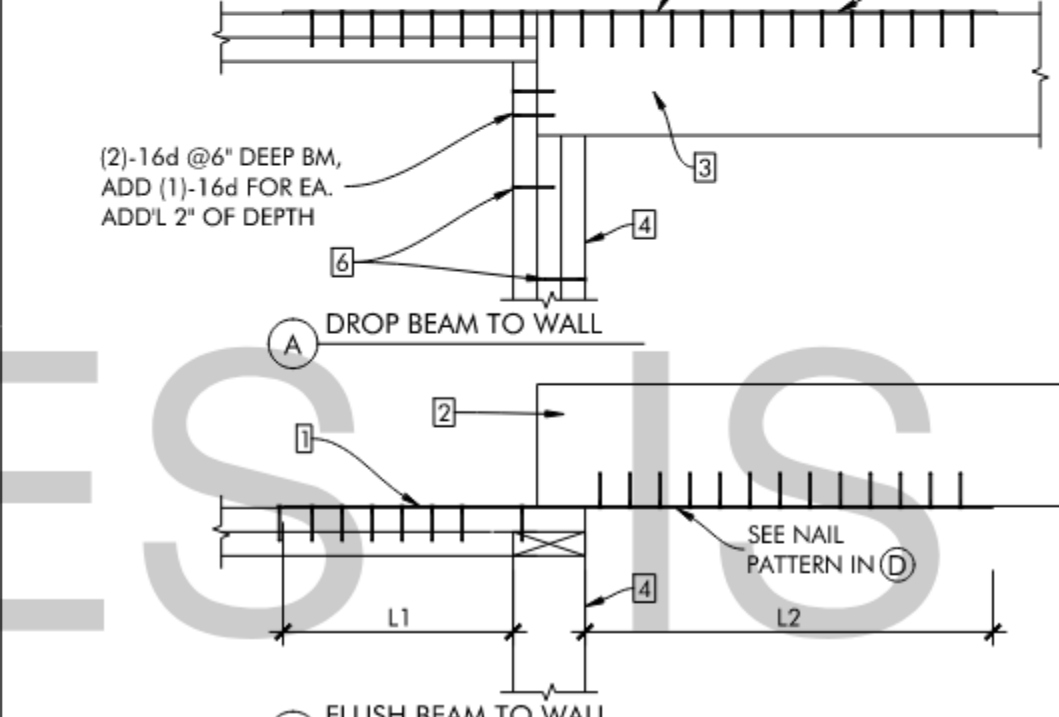


PANEL JOINT NAILING

SILL NAILING

OPENING LIMITS

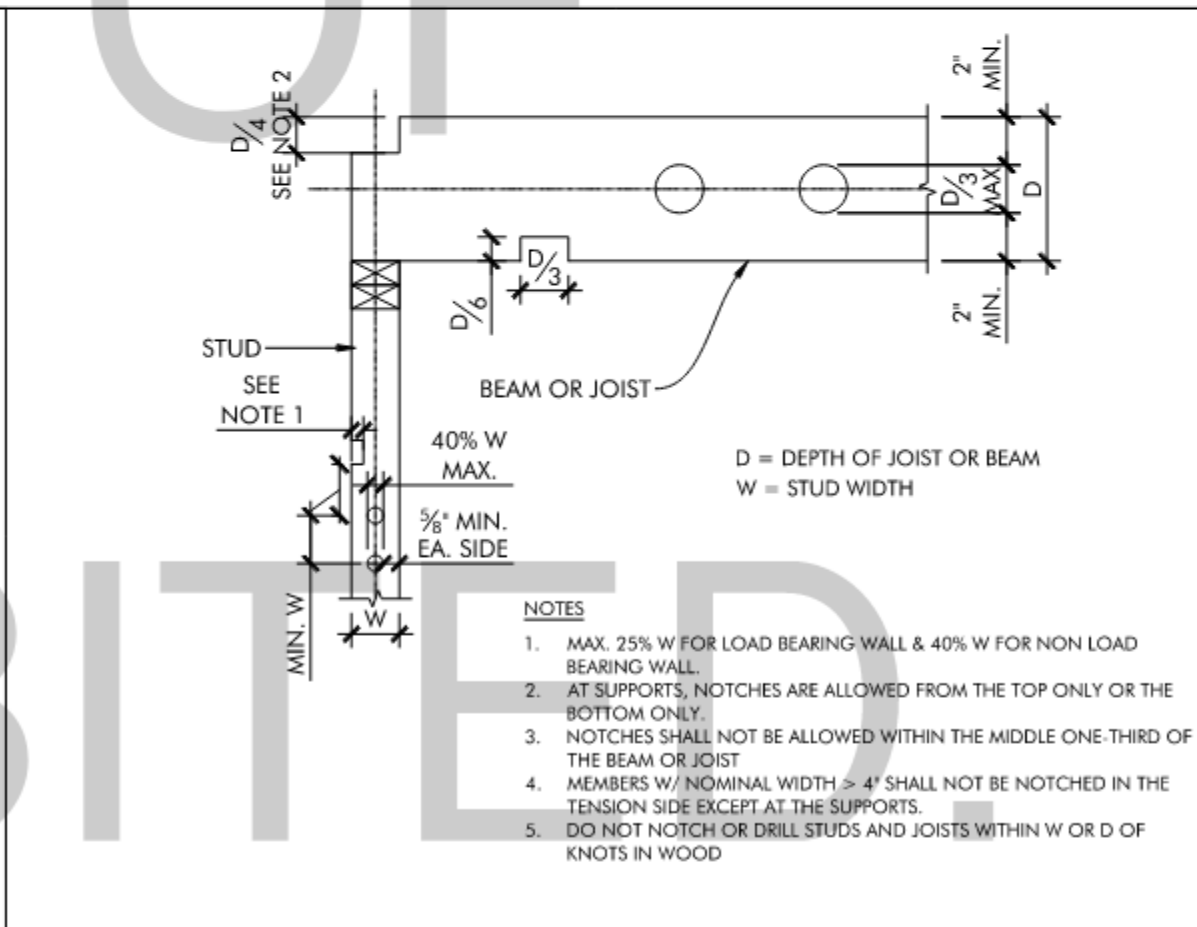
- DRAG STRAP, PER PLAN
- FLUSH BM, PER PLAN
- DROP BM, PER PLAN
- POST, PER PLAN
- BEARING WALL, PER PLAN
- 16d @ 12" O.C.



FLUSH BEAM TO FLUSH BEAM

FLUSH BEAM TO WALL

DRAG STRAP SPECIFICATIONS				
STRAP	DRAG MEMBER	L1 (LENGTH OF STRAP TO TOP PLATES)	L2 (LENGTH OF STRAP TO DRAG MEMBER)	DRAG CAPACITY (LBS)
CS16	1 1/2" MIN.	16" W/ (20)-8d	32" W/ (2) ROWS OF 8ds @ 4 1/2" O.C.	1,705
CMST14	3 1/2" MIN.	34" W/ (66)-10d	72" W/ (2) ROWS OF 10ds @ 3 1/2" O.C.	6,475
CMST12	3 1/2" MIN.	44" W/ (86)-10d	96" W/ (2) ROWS OF 10ds @ 3 1/2" O.C.	9,215



- NOTES
- MAX. 25% W FOR LOAD BEARING WALL & 40% W FOR NON LOAD BEARING WALL
 - AT SUPPORTS, NOTCHES ARE ALLOWED FROM THE TOP ONLY OR THE BOTTOM ONLY
 - NOTCHES SHALL NOT BE ALLOWED WITHIN THE MIDDLE ONE-THIRD OF THE BEAM OR JOIST
 - MEMBERS W/ NOMINAL WIDTH > 4" SHALL NOT BE NOTCHED IN THE TENSION SIDE EXCEPT AT THE SUPPORTS
 - DO NOT NOTCH OR DRILL STUDS AND JOISTS WITHIN W OR D OF KNOTS IN WOOD

11 TYP. SHEAR WALL ELEVATION & NAILING
SCALE: NTS

12 DRAG STRAP DETAIL
SCALE: NTS

13 NOTCHES & HOLES
SCALE: NTS



STARUCTURES, LLC

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JOB: Residence
CALCULATED BY: MN
CHECKED BY:
PROJECT NO. 23-002
DATE: 07/21/2023

1) Introduction:

Project Address:

68195

Scope of Work:

- New Construction

2) Design Data:

Codes & Standards:

CBC 2022

ASCE 7-16

AWC NDS 2018

AWC SDPWS 2015

ACI 318-14

Material Data:

Structural Lumber is Douglas-Fir Larch

Douglas-Fir #1 U.N.O. for Posts

Douglas-Fir #1 U.N.O. for Beams

Douglas-Fir #2 U.N.O. for Joists & Rafters

Douglas-Fir #2 U.N.O. for Studs

Machine Bolt = ASTM A307

Anchor Bolt = ASTM F1554

Concrete compressive strength = 2,500 psi

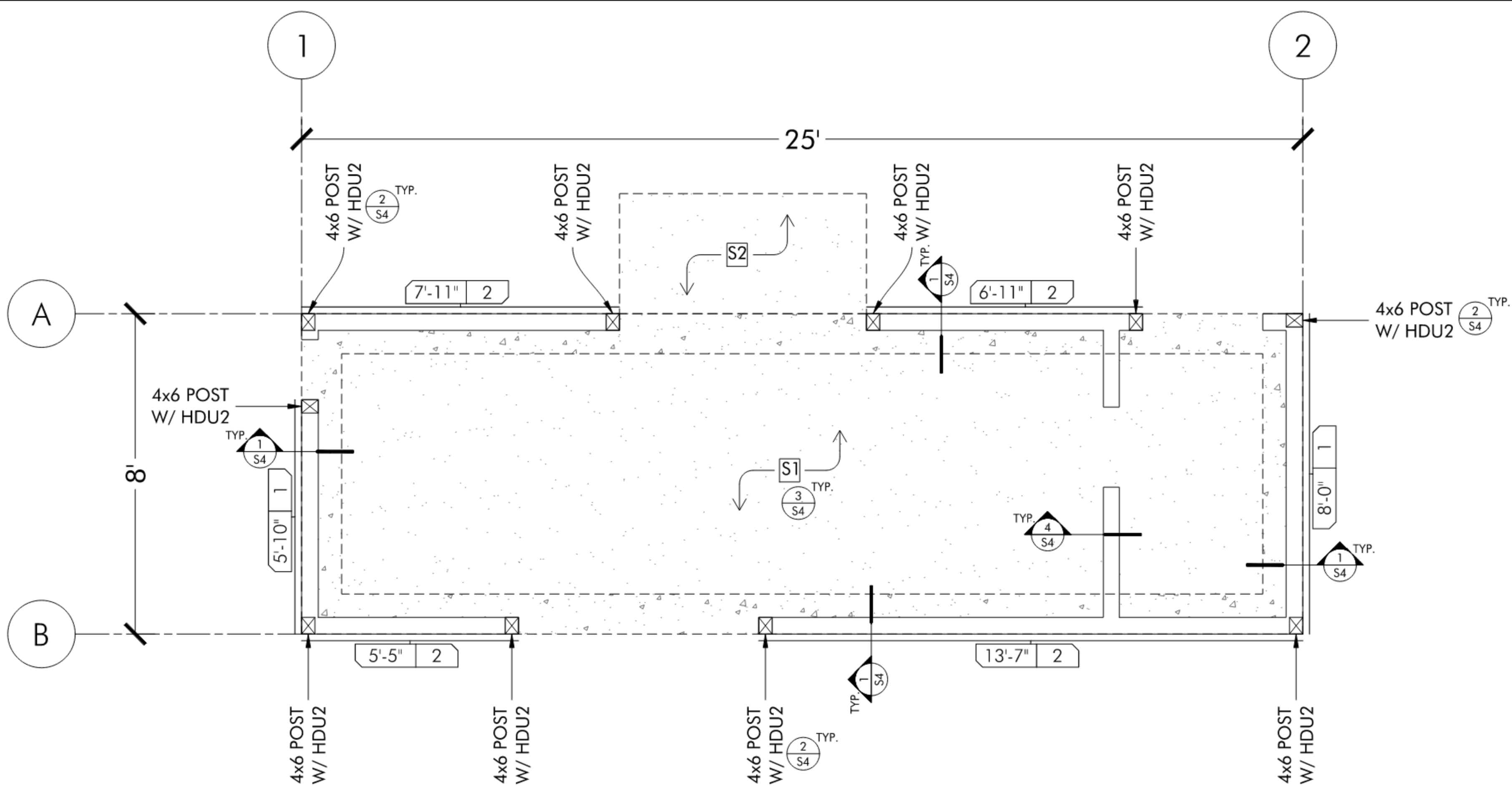
q_o (soil allowable bearing pressure) = 1,500 psf (CBC 2022 Table 1806.2)

Site Seismic Data:

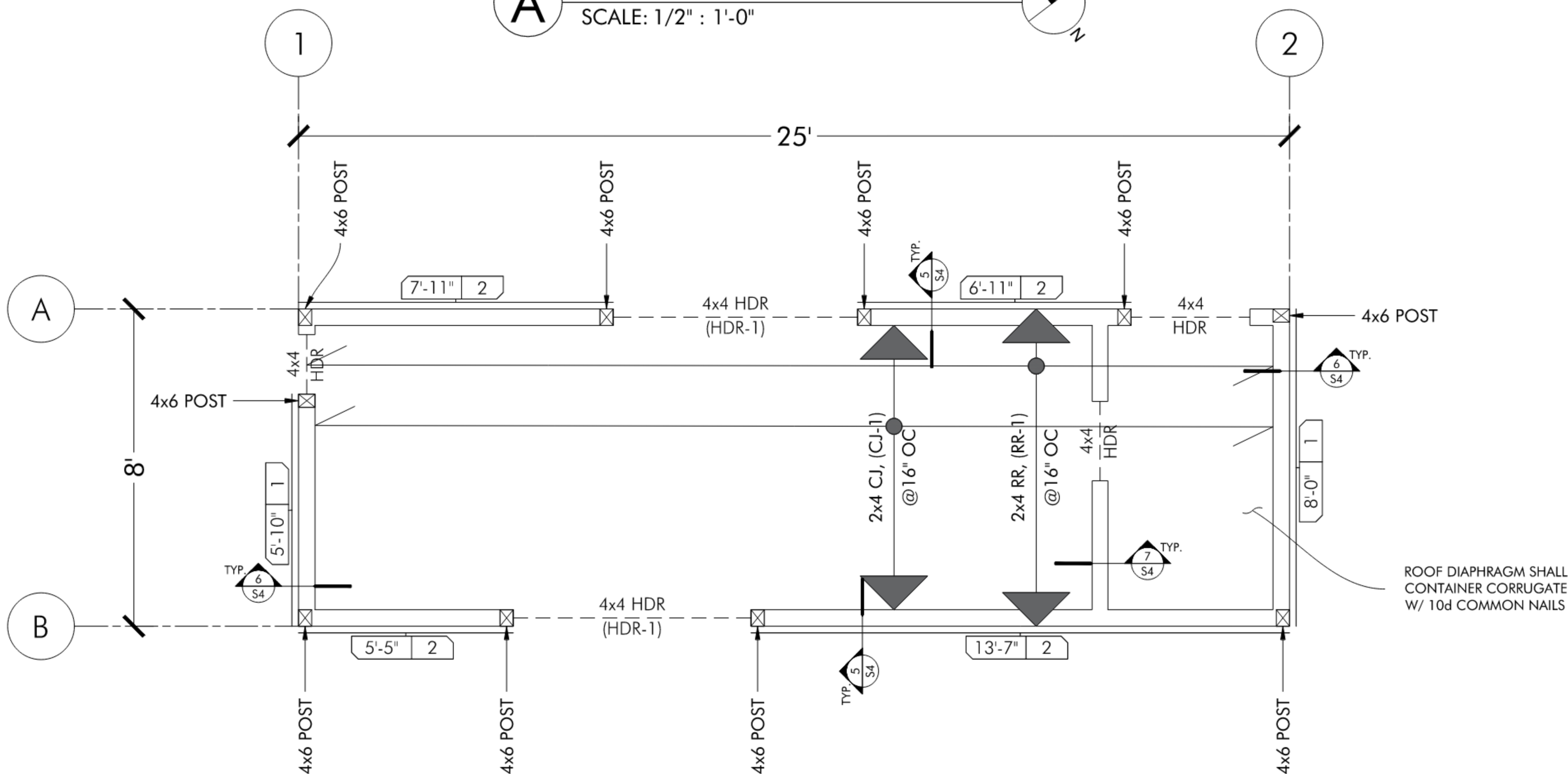
Risk Category =	II	Site Class =	D (Default)
Importance Factor (I_a) =	1	Seismic Design Category =	E
S_s =	1.972	S_1 =	0.827
S_{DS} =	1.578	S_{D1} =	0.937
R (Wood Shear Walls) =	6.5	Ω_0 =	2.5
ρ =	1.3		

Site Wind Data:

Risk Category =	II	K_d =	0.85
Importance Factor (I_w) =	1	K_{zt} =	1
Exposure =	C	K_z =	0.85
Speed =	109	K_e =	1
Enclosure =	Enclosed		



A FOUNDATION PLAN
SCALE: 1/2" : 1'-0"



B ROOF FRAMING PLAN
SCALE: 1/2" : 1'-0"

1. RF SHTH'G, PER PLAN
2. RR, PER PLAN
3. BLK'G @48" OC
4. DBL. TOP PLATES
5. 2x STUD WALL
6. WALL SHTH'G, PER PLAN
7. A35, @ 16" O.C.
8. CJ, PER PLAN
9. SIMP LUS
10. 2x4 LEDGER DF#1
W/ $\frac{1}{4}$ " SDS, 3" LONG @ 16" OC
11. CONTAINER TOP RAIL

