

DESIGN CRITERIA:	
BUILDING CODE - 2021 UTAH STATE BUILDING CODE (BASED ON IBC 2021)	
1. RISK CATEGORY	II
B. WIND FACTOR	1.0
C. SNOW FACTOR	1.0
D. SEISMIC FACTOR	1.0
2. DESIGN DEAD LOADS:	
A. ROOF	22 PSF
3. DESIGN LIVE LOADS*:	20 PSF
A. ROOF	20 PSF *LIVE LOADS ARE REDUCIBLE IN ACCORDANCE WITH THE BUILDING CODE.
4. WIND LOADS:	
A. ULTIMATE WIND SPEED	103 MPH
B. DIRECTIONALITY FACTOR (Kd)	0.85
C. EXPOSURE CATEGORY	C
D. ENCLOSURE CLASSIFICATION	ENCLOSED BUILDING
E. GUST EFFECT FACTOR (G)	0.85
F. COMPONENT AND CLADDING LOADS (100 SQ. FT., ZONES ARE PER ASCE-7)	

ROOFS

10 FT²

100 FT²

NEGATIVE ZONE 1	-38.30 PSF	-29.90 PSF
NEGATIVE ZONE 1'	-22.00 PSF	-22.00 PSF
NEGATIVE ZONE 2	-50.50 PSF	-39.70 PSF
NEGATIVE ZONE 3	-50.50 PSF	-39.70 PSF
POSITIVE ZONES 1 & 1'	16.00 PSF	16.00 PSF
POSITIVE ZONES 2 & 3	22.00 PSF	18.80 PSF
OVERHANG ZONE 1 & 1'	-34.60 PSF	-32.60 PSF
OVERHANG ZONE 2	-46.80 PSF	-32.60 PSF
OVERHANG ZONE 3	-46.80 PSF	-32.60 PSF

WALLS

NEGATIVE ZONE 4	-28.80 PSF	-19.80 PSF
NEGATIVE ZONE 5	-29.30 PSF	-22.90 PSF
POSITIVE ZONES 4 & 5	22.00 PSF	18.80 PSF

REFERENCE ASCE 7 FOR EFFECTIVE
WIND AREAS NOT LISTED, OTHERWISE,
USE THE SMALLEST APPLICABLE AREA.

WALLS

h = 18'-0"

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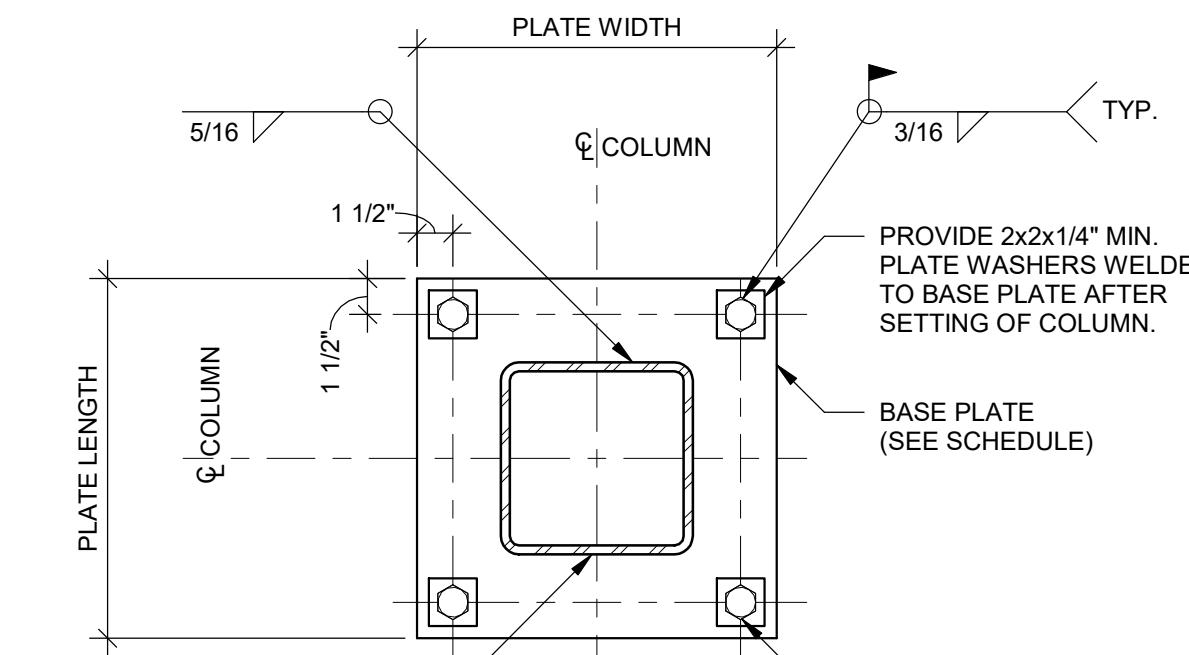
FOUNDATION
PLAN

Drawn By: _____
Checked By: _____

HDA Job Number: 2426
Date: 6-13-2025

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BASE PLATE SCHEDULE				
COLUMN SIZE	PLATE LENGTH	PLATE WIDTH	PLATE THICKNESS	ANCHOR BOLTS
HSS5x5	12"	12"	3/4"	(4) 3/4" DIA. x12" EMBED

FOOTING SCHEDULE				
MARK	LENGTH	WIDTH	THICKNESS	REINFORCEMENT
F4	4'-0"	4'-0"	1'-4"	(5) #5 E.W.
F5	5'-0"	5'-0"	1'-4"	(6) #5 E.W.

SHEAR WALL SCHEDULE							
SYMBOL	SHEATHING	FASTENER	MINIMUM PENETRATION OF FASTENER	FASTENER SPACING		ANCHOR BOLT SIZES & SPACING	HOLDOWN
				PANEL EDGES	FIELD		
1	15/32" STRUCT 1 APA RATED, EXT GRADE	10d NAIL	1 1/2"	6" O.C.	12" O.C.	(3) 2x6	5/8" DIA SIMPSON TITEN HD @ 16" O.C. MIN EMBED 4"
2	15/32" STRUCT 1 APA RATED, EXT GRADE	10d NAIL	1 1/2"	6" O.C.*	12" O.C.	(2) 2x6	5/8" DIA SIMPSON TITEN HD @ 16" O.C. MIN EMBED 4"
3	15/32" STRUCT 1 APA RATED, EXT GRADE	10d NAIL	1 1/2"	4" O.C.	12" O.C.	6x6	5/8" DIA SIMPSON TITEN HD @ 16" O.C. MIN EMBED 4"

NOTES:

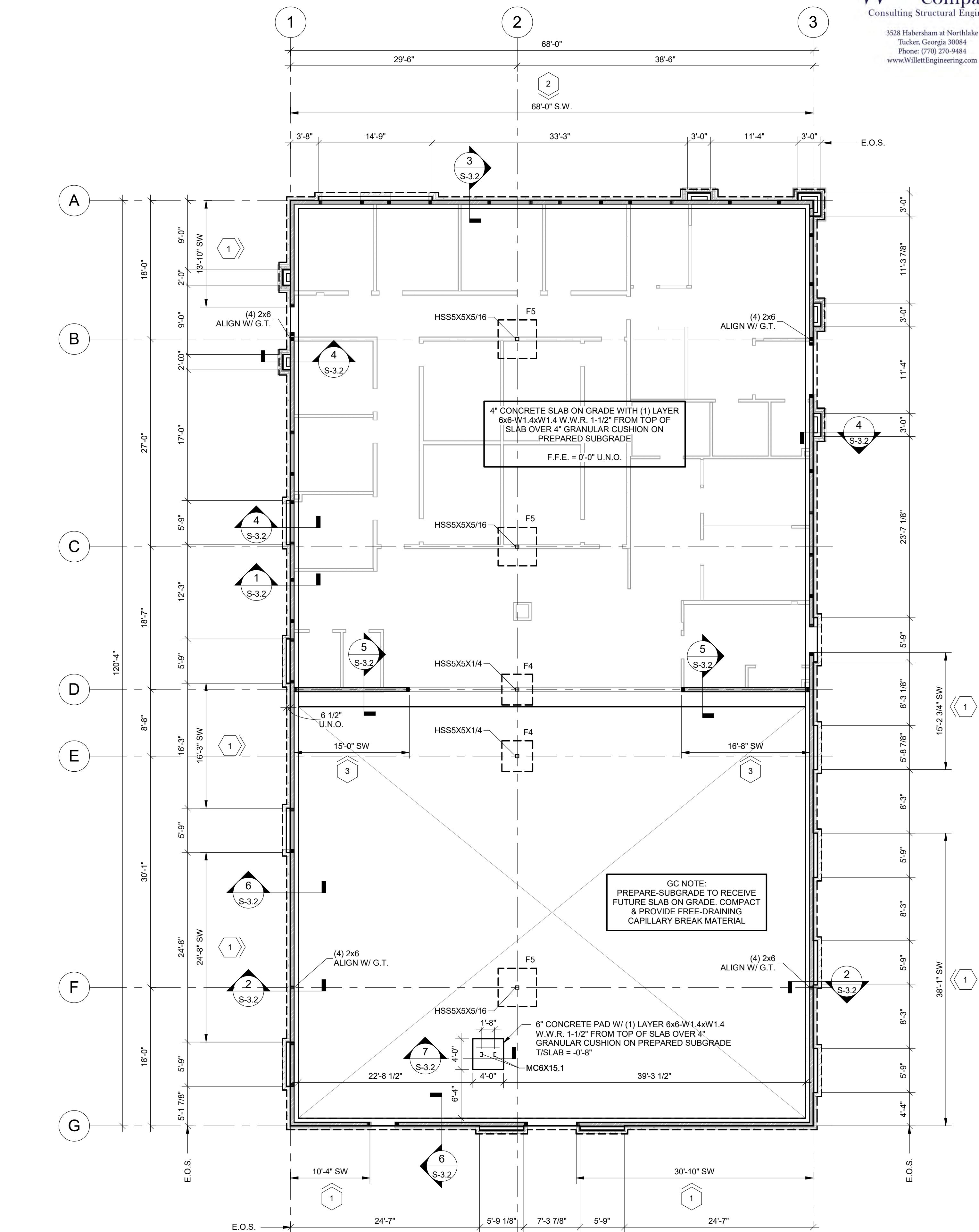
- WHEN NAIL SPACING IS 3" OR LESS, FRAMING MEMBER AND BLOCKING MEMBER IN THE SHEAR WALL SHALL BE A 3x MIN. OR (2) 2x, U.N.O.
- *CONTINUE NAIL PATTERN ABOVE AND BELOW OPENINGS. SHEAR WALL END POSTS AT OPENINGS IS THE GREATER OF END POSTS OR HEADER KING STUDS.
- HOLDOWNS REPRESENT MODEL NUMBERS BY SIMPSON STRONG-TIE U.N.O.

FOUNDATION PLAN LEGEND

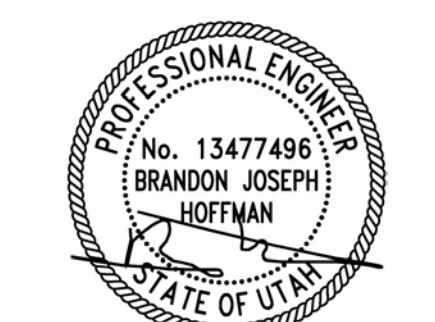
- INDICATES STEP IN FOUNDATION
- INDICATES ATYPICAL TOP OF FOOTING ELEVATION
- INDICATES A STEP IN THE SLAB ON GRADE
- INDICATES STRUCTURAL WALL 2x6 @ 16" O.C. U.N.O. - SEE ARCH. FOR NON-STRUCTURAL WALLS
- INDICATES SHEAR WALL

FOUNDATION PLAN NOTES:

- TOP OF ALL EXTERIOR FOOTINGS SHALL BE -1'-0" BELOW FINISHED FLOOR, U.N.O.
- TOP OF ALL INTERIOR FOOTINGS SHALL BE -1'-0" BELOW FINISHED FLOOR, U.N.O.
- REFER TO ARCH'L AND CIVIL DRAWINGS FOR LOCATION OF MOISTURE BARRIER, CURBS, EXTERIOR SLABS, DRAINAGE, RAMPS, STEPS, WALKS, ETC.
- BUILDING SLABS NOT DESIGNED TO SUPPORT CRANE LOADS, CONCRETE MIXING TRUCKS, OR OTHER SPECIFIC CONSTRUCTION LOADINGS.
- FOOTINGS SHALL BE CENTERED ON THE CENTERLINE OF THE WALL AND/OR COLUMNS, U.N.O.
- COORDINATE LOCATION OF LOWERED FOOTINGS WITH PLUMBING DRAWINGS.
- REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN. COORDINATE SLAB ELEVATIONS AND SLOPES WITH ARCHITECTURAL PLANS.
- REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR SIZE AND LOCATION OF SLAB AND FOUNDATION PENETRATIONS.
- THICKEN SLAB TO MAINTAIN THE SLAB THICKNESS AROUND FLOOR BOXES AND CONDUIT.



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FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



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ROOF FRAMING
PLAN

Drawn By: _____

Checked By: _____

Release Description
06-13-25 PERMITTING/BID

HDA Job Number: 2426
Date: 6-13-2025

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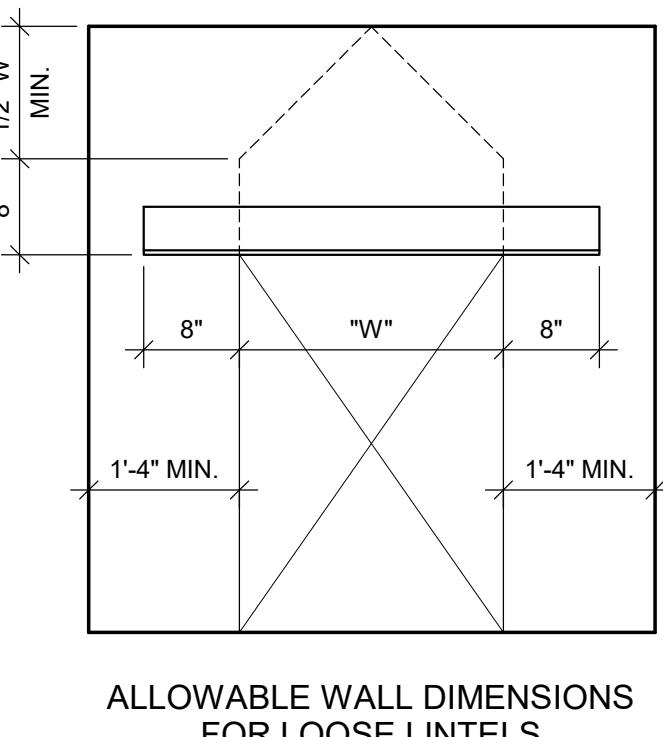
ROOF FRAMING PLAN

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

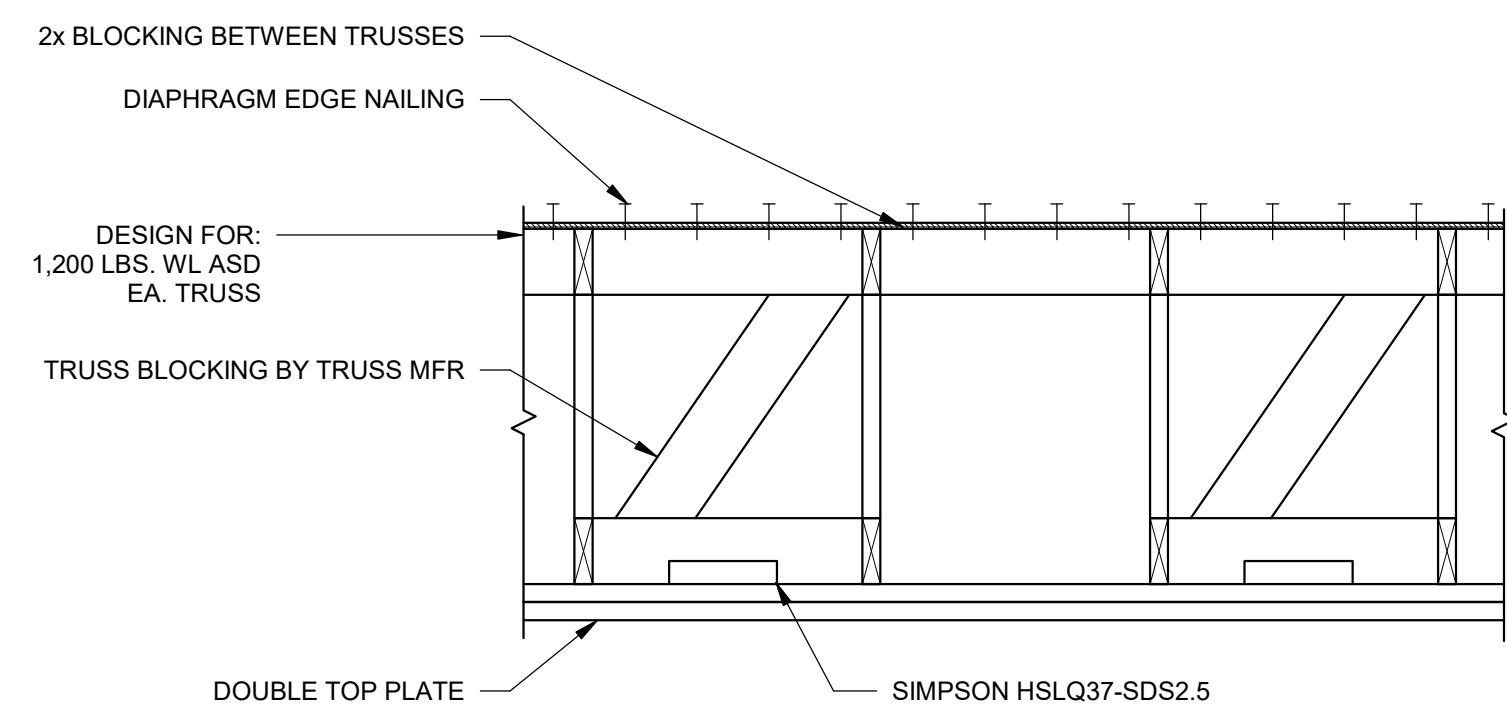
FOR CONSTRUCTION

OPENING WIDTH	BRICK LINTEL SCHEDULE	
	BRICK W/ AIR SPACE	BRICK W/ NO AIR SPACE
≤ 5'-0"	L4xhx3/8 (h = 4" MIN)	L3-1/2x3-1/2x3/8
6'-0"	L6xhx3/8 (h = 4" MIN)	L4x4x3/8
8'-0"	L6xhx3/8 (h = 6" MIN)	L6x4x3/8 (LLV)
12'-0"	L6xhx5/8 (h = 4" MIN)	L6x4x7/8 (LLV)



NOTES:
1. LOOSE LINTELS SHALL BE HOT-DIP GALVANIZED U.N.O.
2. WHERE ANGLE SIZES ARE NOT AVAILABLE, BENT PLATES ARE ALLOWED TO BE SUBSTITUTED.
3. "h" DENOTES ANGLE HORIZONTAL LEG VARIES BASED ON AIR SPACE AND BRICK DIMENSIONS.
4. BEAR LOOSE LINTELS A MIN. OF 8" ON EACH SIDE OF OPENINGS.
5. DO NOT USE THE BRICK LINTEL SCHEDULE WHERE DIMENSIONS DO NOT MEET MINIMUM WALL DIMENSIONS IN THE ALLOWABLE WALL DIMENSIONS DIAGRAM.

LOOSE LINTEL SCHEDULE



TYP. TRUSS BLOCKING

ROOF TRUSS LOADS		
LOAD	TOP CHORD	BOTT. CHORD
DEAD	10.0 PSF	12.0 PSF
ROOF LIVE	20.0 PSF	0.0 PSF
LIVE	0.0 PSF	10.0 PSF ^{1,2}
WIND (DOWN)	SEE S-0.1	0.0 PSF
WIND (UP)	SEE S-0.1	0.0 PSF
RAIN	19.0 PSF	0.0 PSF
SNOW	35.8 PSF	0.0 PSF

1. NON CONCURRENT WITH ROOF LIVE LOAD
2. TRUSS MANUFACTURER SHALL DESIGN FOR ADDITIONAL LOADS WHERE PARAMETERS FOR UNINHABITABLE ATTICS WITH STORAGE CRITERIA ARE MET PER ASCE 7.

ROOF FRAMING PLAN LEGEND:

- <±XX> INDICATES AXIAL ASD (0.6W OR 0.7EQ) LOAD TO BE INCORPORATED INTO MEMBERS AND CONNECTION DESIGN
- SB INDICATES BEAM SPLICE
- SX INDICATES SNOW DRIFT APPLIED TO ROOF FRAMING. SEE SCHEDULE FOR DRIFT LOAD AND WIDTHS

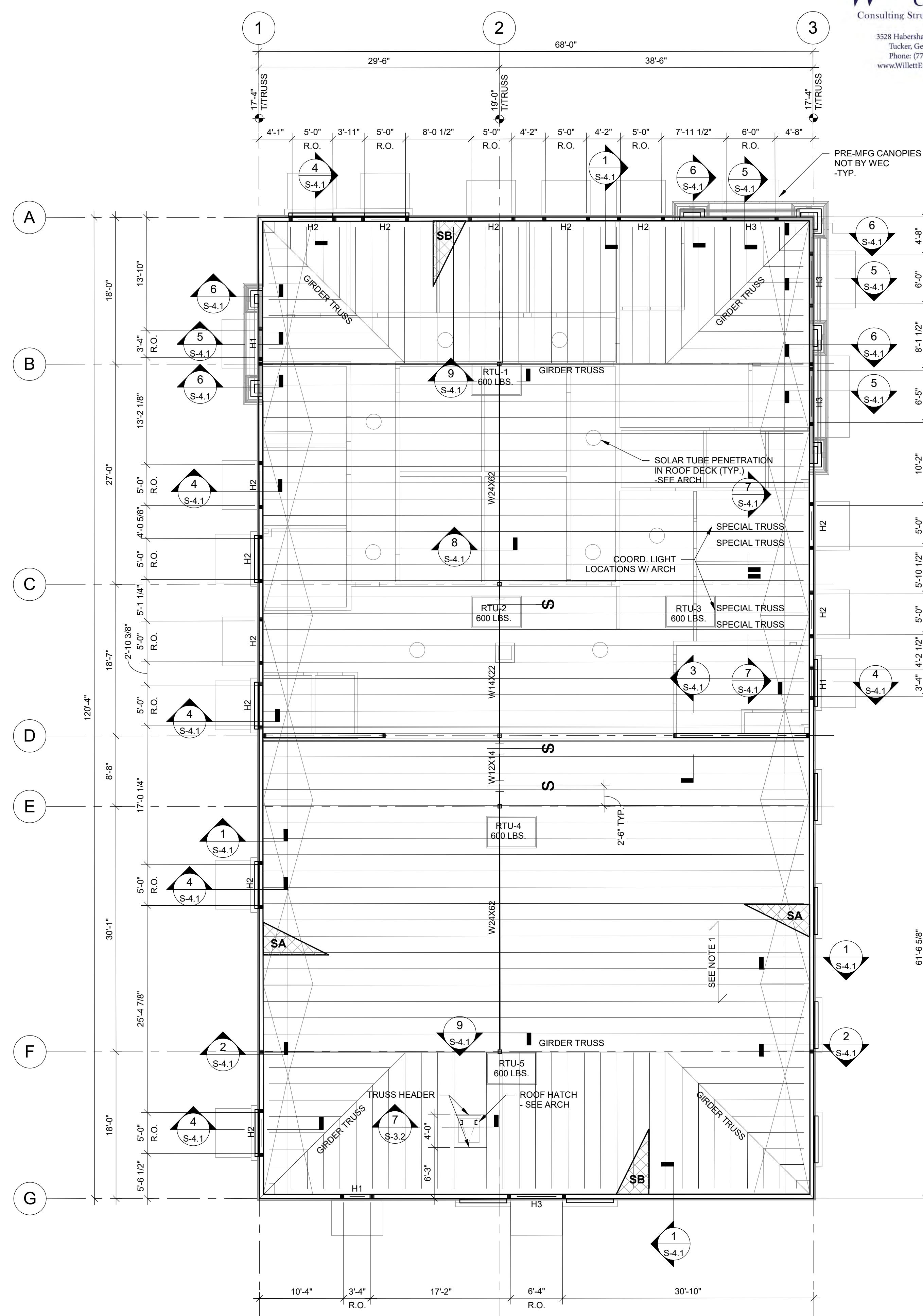
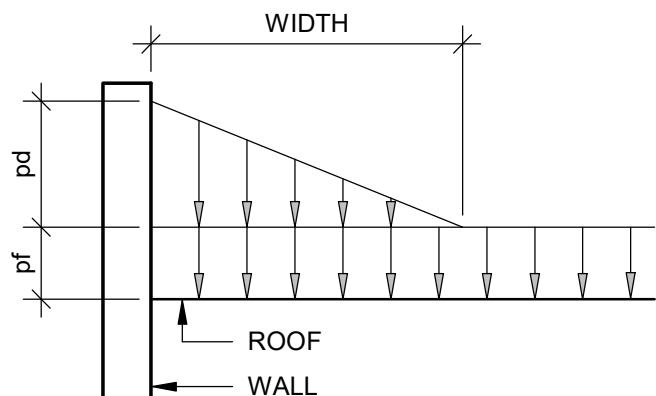
SNOW DRIFT LOADING SCHEDULE			
MARK	BALANCED SNOW "p _b "	DRIFT SNOW "p _d "	DRIFT WIDTH "WIDTH"
SA	26.6 PSF	44.3 PSF	9'-6"
SB	26.6 PSF	58.0 PSF	12'-3"

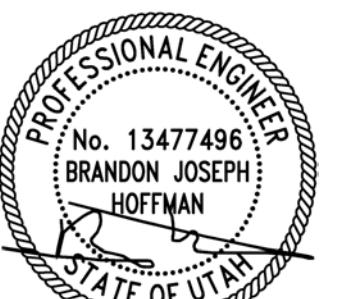
WALL OPENING SCHEDULE			
HEADER MARK	H1	H2	H3
HEADER SIZE	(3) 2x6	(3) 2x8	(3) 2x12
KING STUDS	(2) 2x6	(3) 2x6	(3) 2x6
JACK STUDS	(2) 2x6	(2) 2x6	(2) 2x6
SILL BEAM	(1) 2x6 IF REQ'D	(2) 2x6 IF REQ'D	(2) 2x6 IF REQ'D
ANCHORAGE	(1) A.B.	(1) A.B.	(1) A.B.

NOTES:
1. A.B. SHALL BE 5/8" DIA. SIMPSON TITEN HD MIN. EMBED 4".

ROOF FRAMING PLAN NOTES

- INDICATES SPAN OF 40/20 RATED, 5/8" PLYWOOD STRUCTURAL 1 ROOF. SEE NOTES & DETAILS FOR NAILING.
- TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE ALL BRACING AND UPLIFT BRIDGING.
- B/TRUSS = 14'-0" U.N.O. T/BEAM = 18'-3 1/2" U.N.O.
- ROOF IS NOT DESIGNED TO SUPPORT ANY FUTURE ROOF TOP EQUIPMENT WHAT IS INDICATED ON THIS DRAWING SHALL BE INCORPORATED INTO THE DESIGN BY THE TRUSS MFR.
- REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR SIZE AND LOCATION OF DECK PENETRATIONS.





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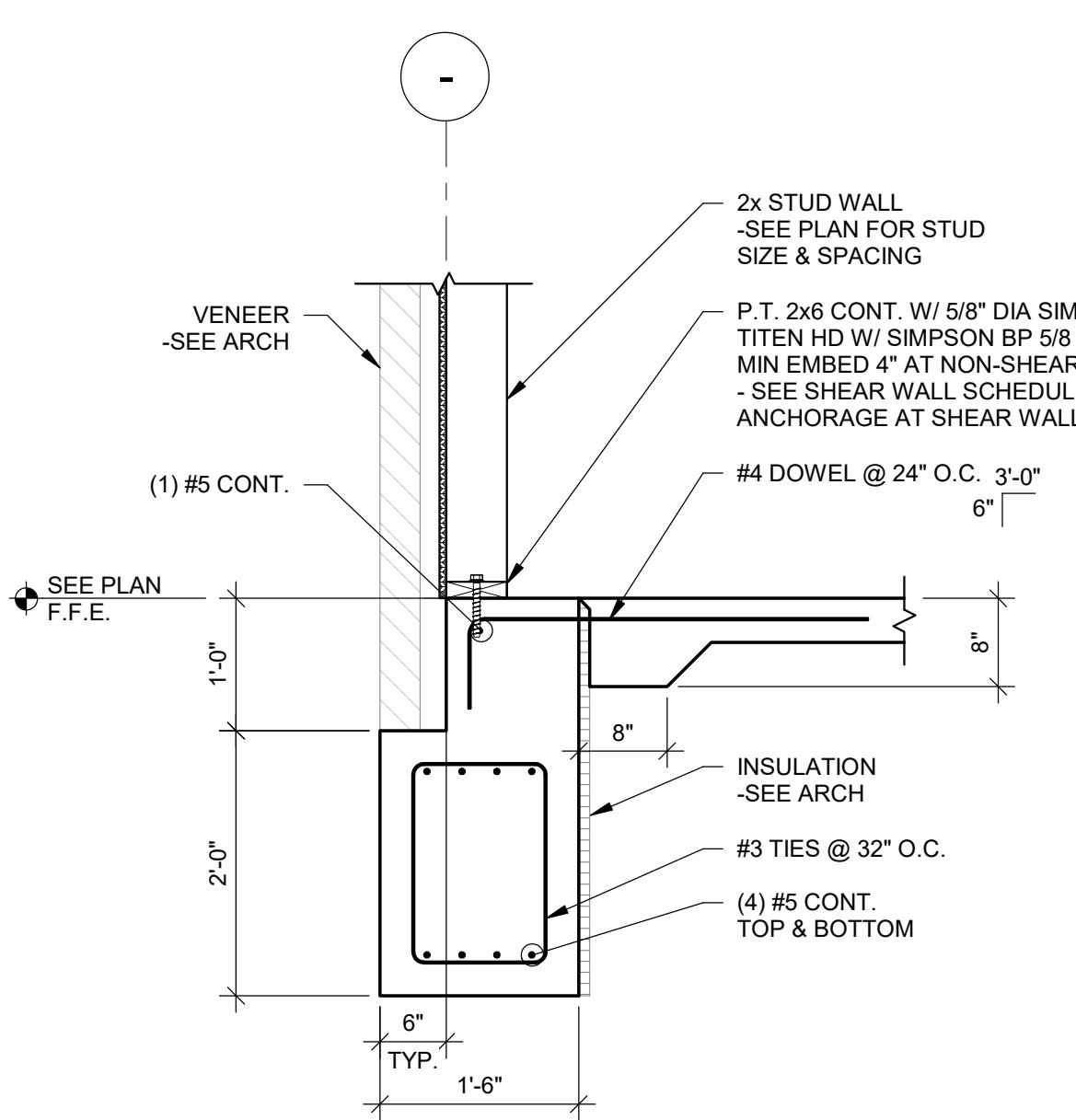
FOUNDATION
SECTIONS &
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Drawn By: _____
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06-13-25 PERMITTING/BID

HDA Job Number: 2426
Date: 6-13-2025

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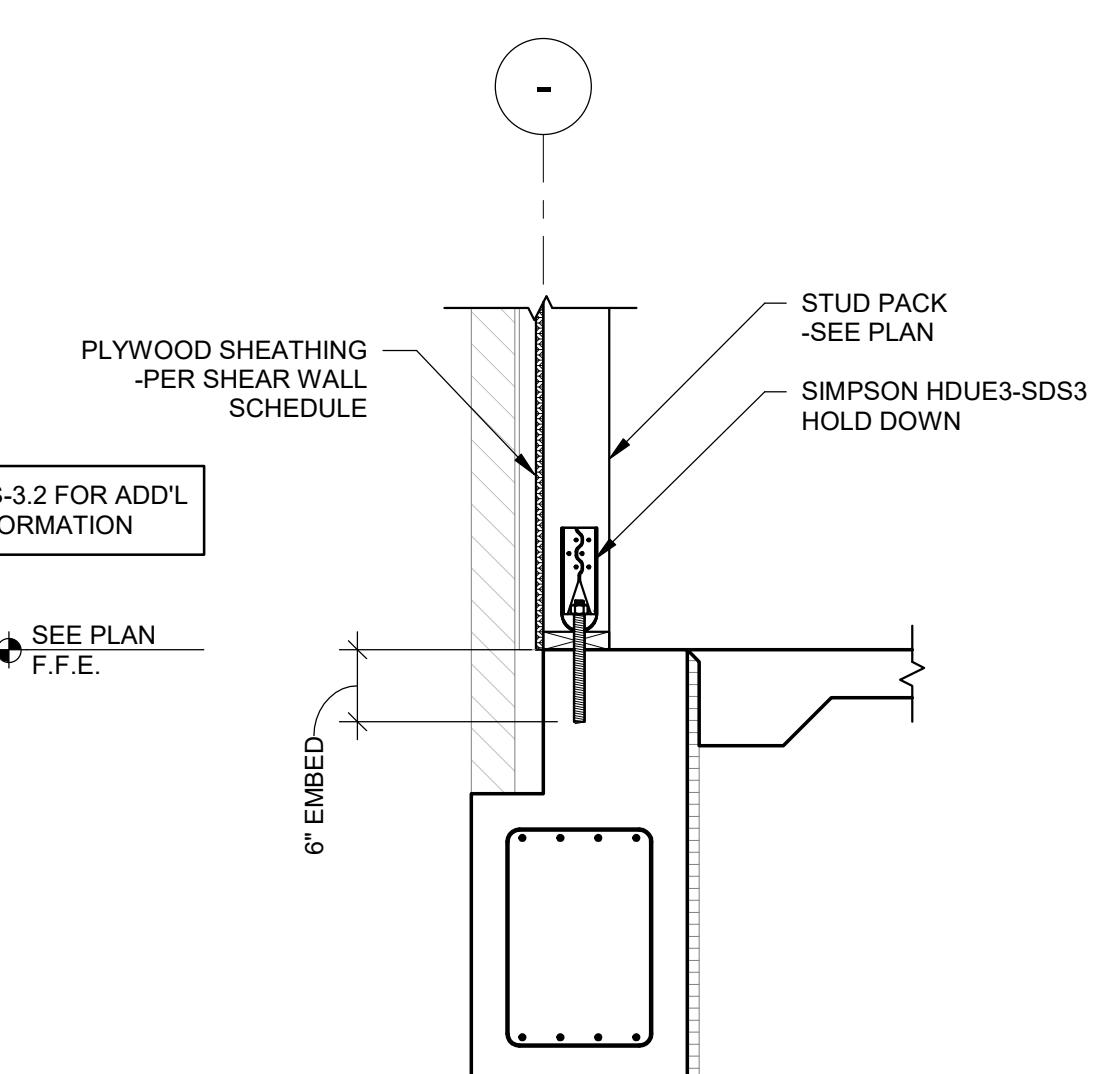
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TYP. EXT. WALL FOOTING

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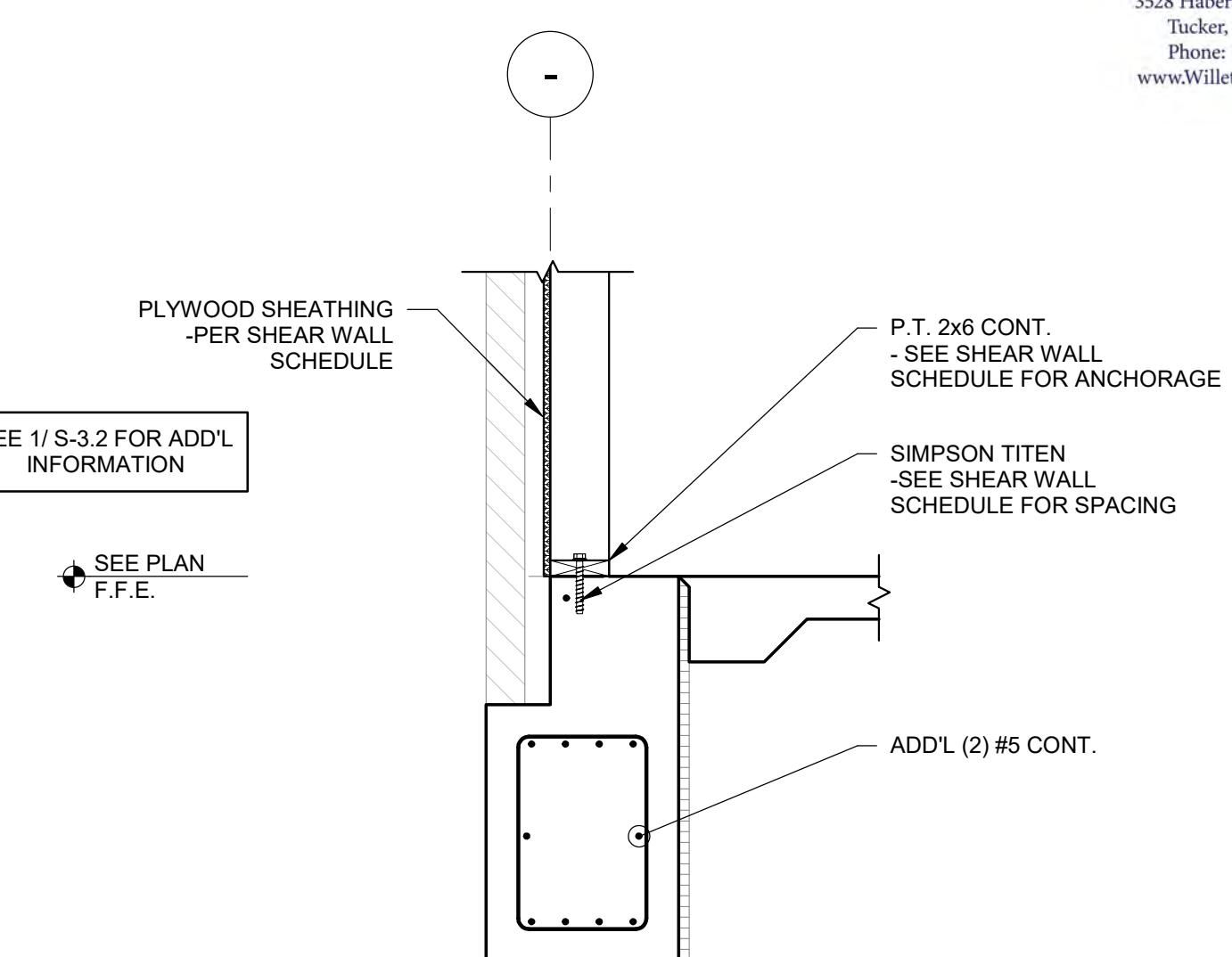
SCALE: 3/4" = 1'-0"



WALL FOOTING @ HOLD DOWN

S-3.2

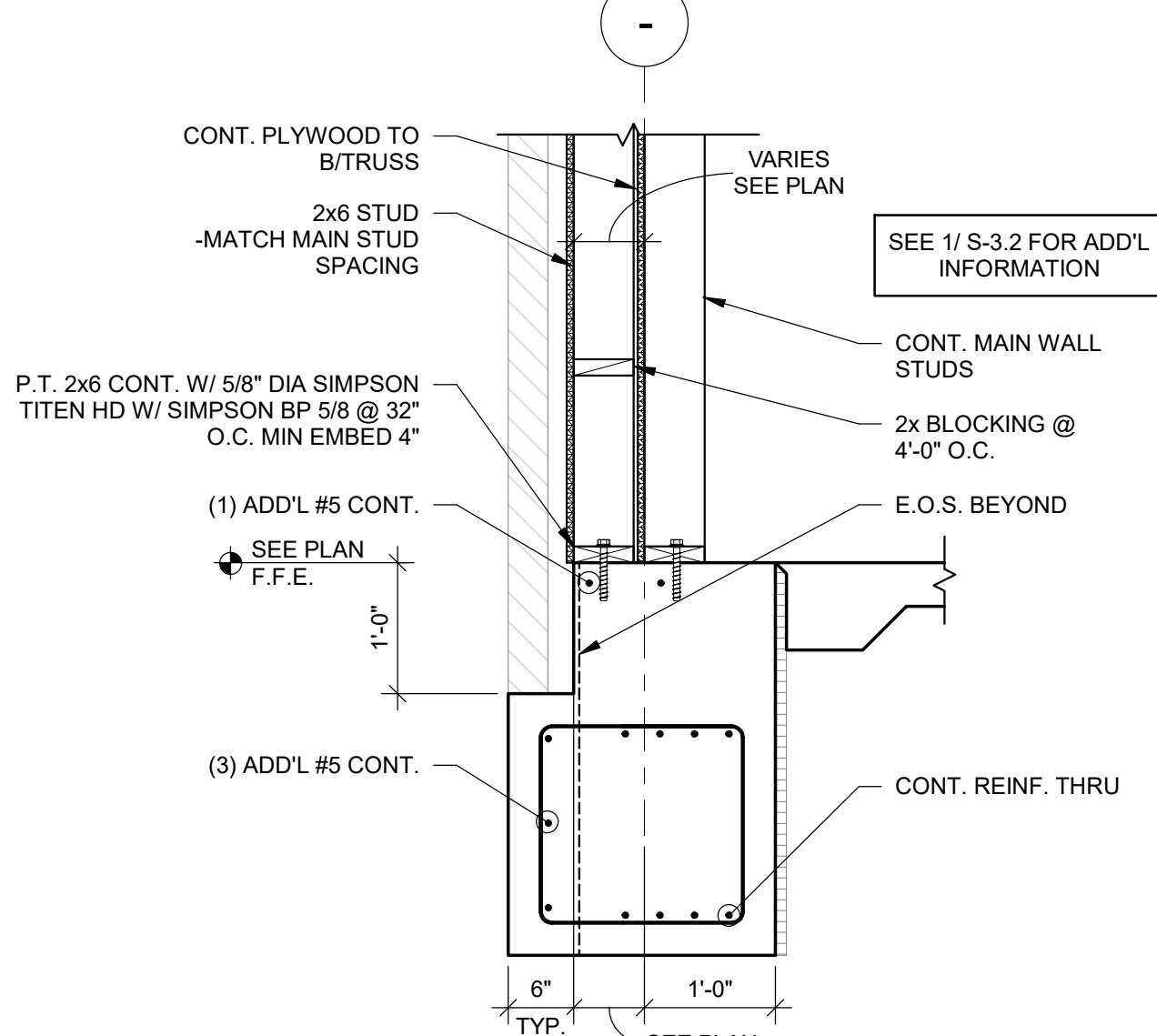
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WALL FOOTING @ SHEAR WALL

S-3.2

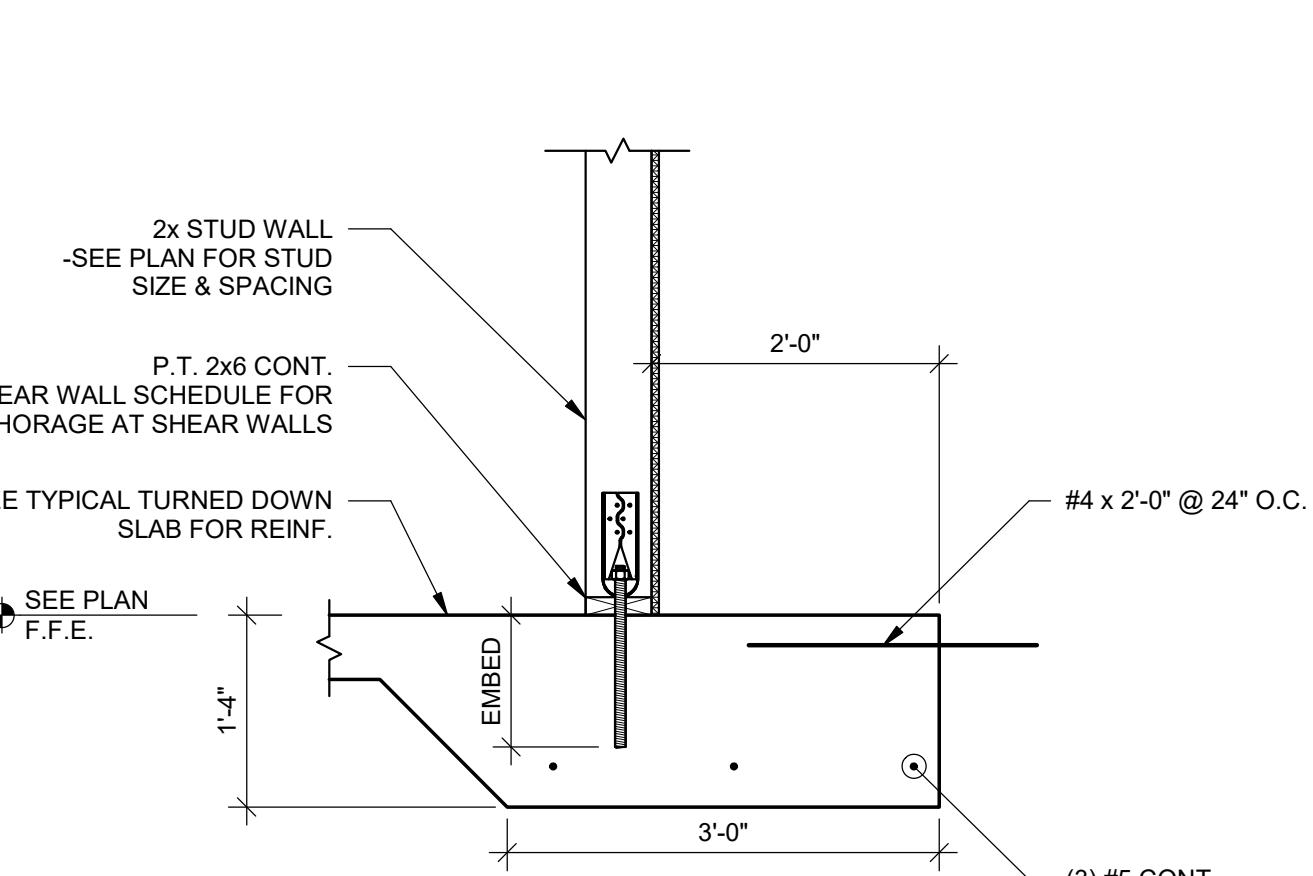
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WALL FOOTING AT FURRING WALL

S-3.2

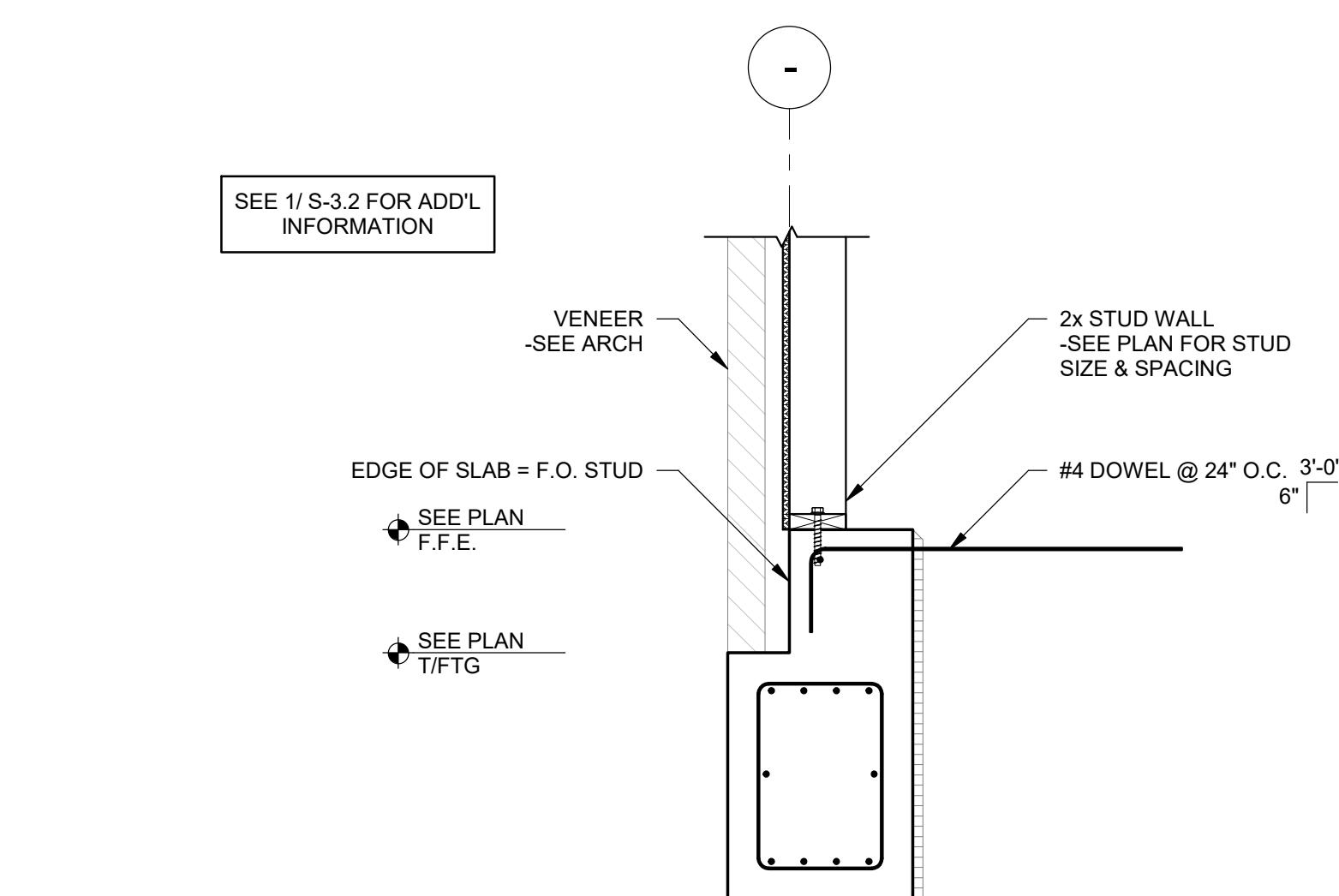
SCALE: 3/4" = 1'-0"



FOUNDATION @ INT. SHEAR WALL

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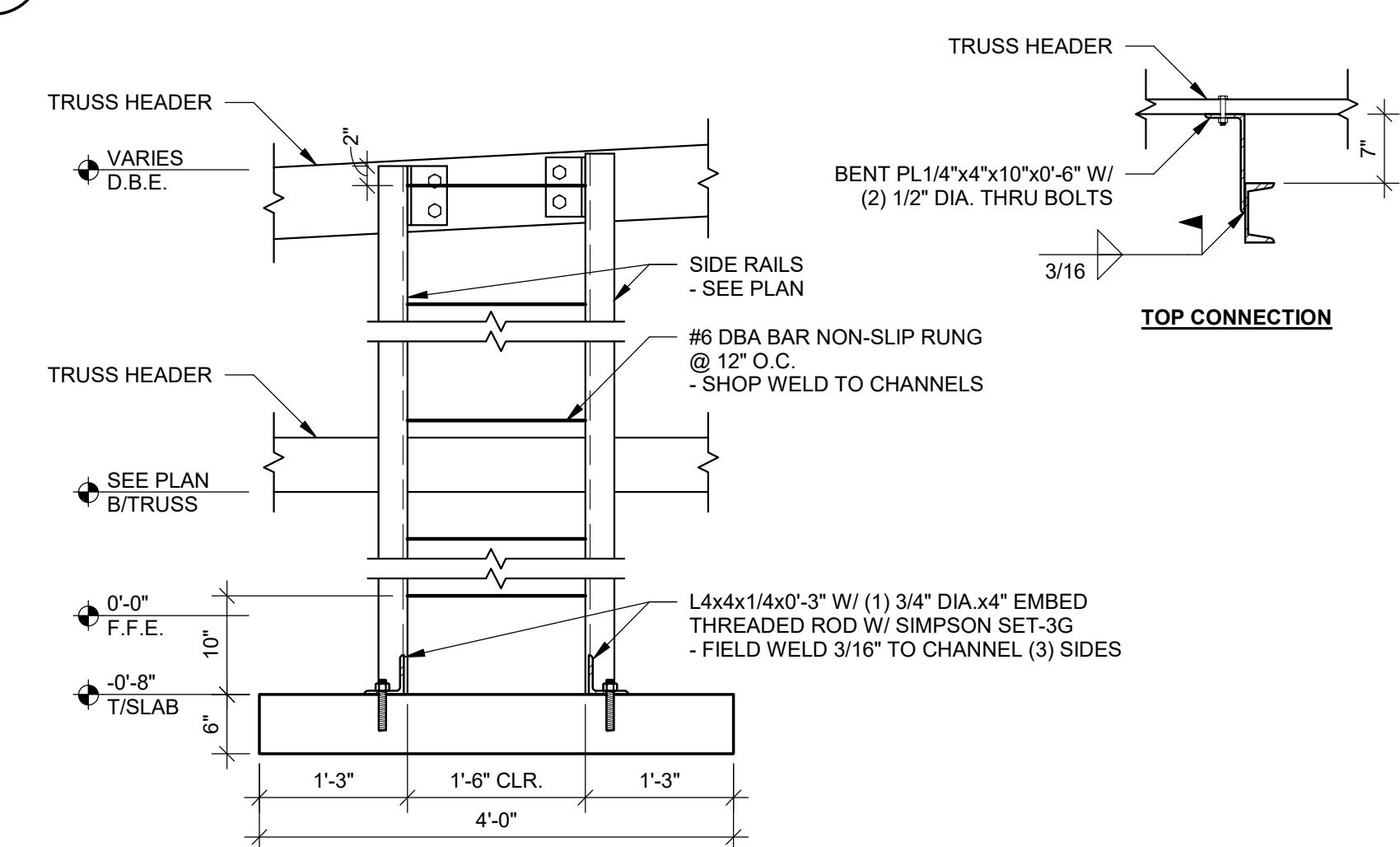
SCALE: 3/4" = 1'-0"



**TYP. EXT. FOOTING AT PARTIAL
SLAB**

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



LADDER DETAIL

S-3.2

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



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ROOF FRAMING
SECTIONS &
DETAILS

Drawn By:
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Release	Description
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10-27-25	PERMIT COMMENTS

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