

STRUCTURAL SCOPE OF WORK

- 1. THE STRUCTURAL SCOPE OF WORK IS INTENDED TO ADDRESS THE FOUNDATION AND FRAMING FOR A NEW RESIDENCE.

GENERAL NOTES

- 1. ALL WORK SHALL CONFORM TO THE LATEST FLORIDA BUILDING CODE AND ALL OTHER APPLICABLE CODES AND ORDINANCES. OBTAIN ALL REQUIRED PERMITS FOR THE PROPER LEGAL DECLARATION OF THE WORK DESCRIBED IN THESE DRAWINGS AND SPECIFICATIONS.

CODES AND DESIGN CRITERIA

1. THE DESIGN IS BASED ON, AND ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (FBC) WITH AMENDMENTS AND DESIGN CODES REFERENCED WITHIN THESE DOCUMENTS. USE THE REFERENCED EDITIONS FROM THE FBC CHAPTER 35 OR THE LATEST EDITIONS IF NOT REFERENCED.

LIVE LOADS (REDUCIBLE BY CODE)

Table with 2 columns: Description (ROOF, UNFINISHED ATTIC, etc.) and Value (20 PSF, 10 PSF, etc.)

WIND LOAD DESIGN DATA

- 1. WIND LOADS SHALL BE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (REFERENCING ASCE 7-16).

- 5. DISPERSE THE MINIMUM LOAD HUNG FROM ANY STRUCTURAL MEMBERS FOR MEP DUCTWORK, PIPING ETC OVER THE MEMBER'S TRIBUTARY AREA IN A WAY THAT THE DESIGN SUPERIMPOSED DEAD LOADS LISTED IN CONTRACT DOCUMENTS ARE NOT EXCEEDED.

STRUCTURAL STEEL

- 1. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS UNLESS OTHERWISE NOTED ON THE CONTRACT DOCUMENTS.

REINFORCEMENT

- 1. REINFORCEMENT BARS: ASTM A615, GRADE 60

CAST-IN-PLACE CONCRETE

- 1. CONCRETE

WOOD

- 1. STRUCTURAL FRAMING PLANS DEPICT THE PRIMARY STRUCTURAL FRAMING SYSTEM. CONTRACTOR SHALL PROVIDE SECONDARY AND MISCELLANEOUS FRAMING AS REQUIRED TO COMPLETE THE PROJECT (SEE ARCHITECTURAL DRAWINGS).

ABBREVIATIONS

- F.T. PRESSURE TREATED GALV. GALVANIZED A.P. ANCHOR BOLT F.B.C. FLORIDA BUILDING CODE U.N.O. UNLESS NOTED OTHERWISE

MASONRY

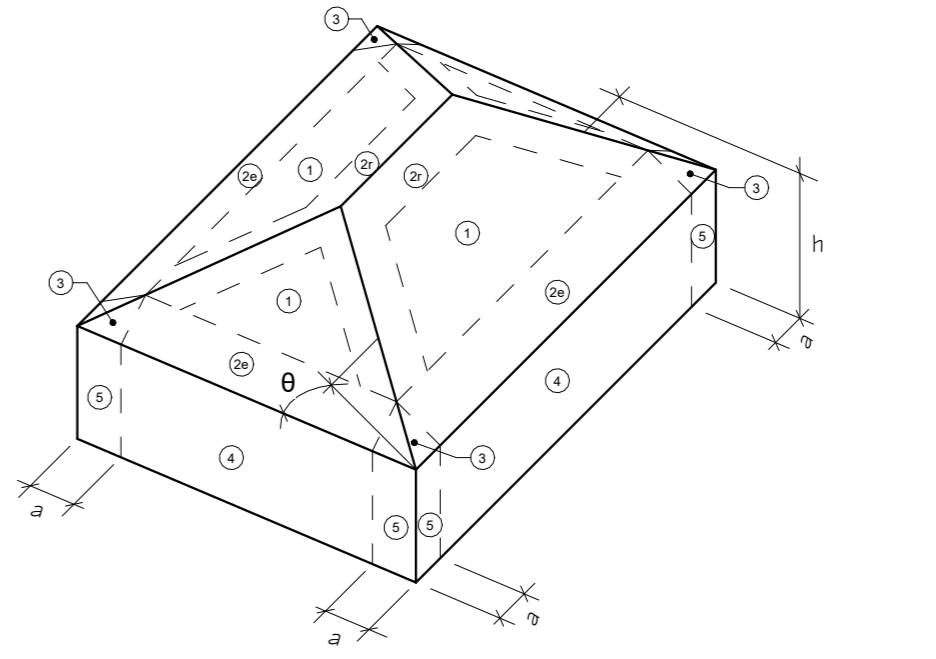
- 1. CONCRETE MASONRY WORK SHALL CONFORM TO TMS 402/602-1.6, BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES.

FOUNDATION

- 1. BEARING SOILS SHALL BE FREE OF ORGANIC MATERIAL AND MEET THE PRE-REQUIREMENTS TO PROVIDE A MINIMUM OF 1,500 PSF SOIL BEARING DESIGN PRESSURES.

POST-INSTALLED ANCHORS

- 1. ANCHOR PRODUCTS APPROVED FOR USE ON THIS PROJECT ARE LISTED BELOW UNLESS OTHERWISE SPECIFIED IN SECTION DETAILS.



WINDLOAD PLAN DIAGRAM HIP ROOF 1/2" = 1'-0"

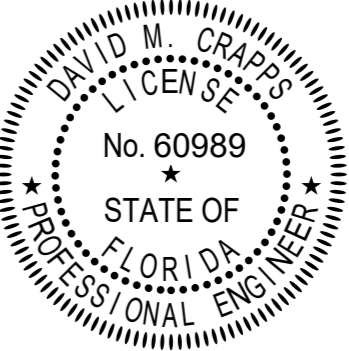
COMPONENTS AND CLADDING WIND PRESSURES ON HIPPED ROOF AND WALLS (PSF)

Table with 11 columns: Zone, 1, 2a, 2r, 3, 3e Overhang, 3r Overhang, 3 Overhang, 4, 5. Rows show wind direction and pressure values.

FOR THE SELECTION OF WINDOW AND DOOR PRODUCTS, TABULATED VALUES SHOWN ARE NORMALLY MULTIPLIED BY 0.6 PRIOR TO COMPARISON WITH THE POSITIVE AND NEGATIVE PRESSURE RATINGS PROVIDED IN EACH FLORIDA PRODUCT APPROVAL. IT IS RECOMMENDED THAT THE MANUFACTURERS REPRESENTATIVE REVIEW THESE DRAWINGS FOR VERIFICATION.

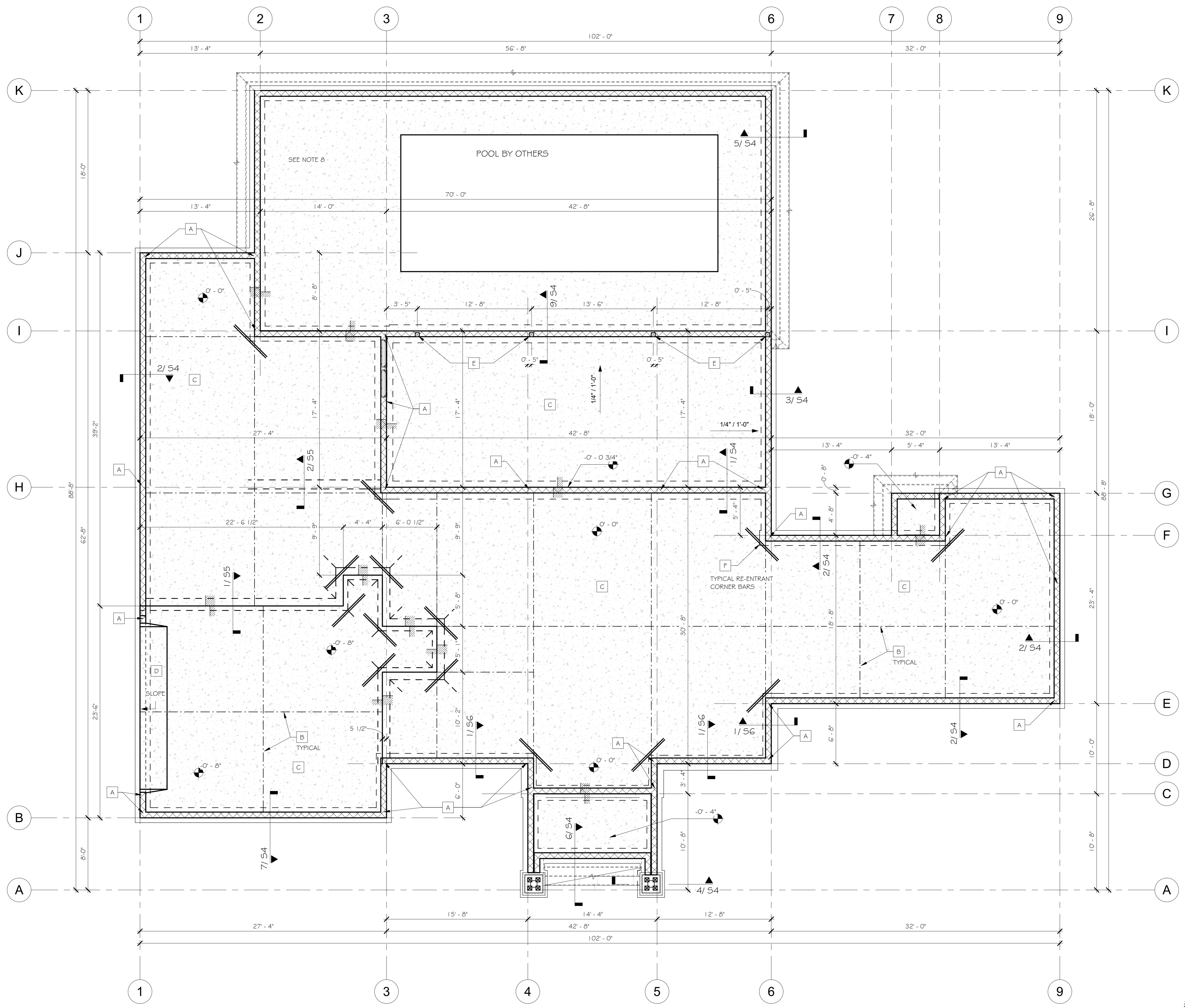
DESIGNED BY: D. CRAPPS - P.E. # 60989 CHECKED BY: D. CRAPPS - P.E. # 60989 DRAWN BY: B. HARRIS

MC FALL RESIDENCE 9515 NW 62ND LANE GAINESVILLE, FLORIDA 32663 DMC PROJECT NO. 1522



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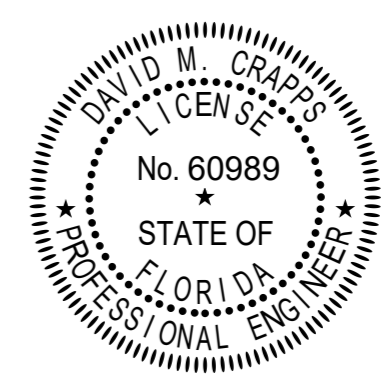
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- PLAN NOTES:**
1. LOCATE EXISTING UTILITIES PRIOR TO EXCAVATION FOR NEW FOOTINGS.
 2. NEW FOUNDATIONS SHALL BE ALLOWED TO SETTLE PRIOR TO COMMENCEMENT OF WOOD-FRAMED CONSTRUCTION.
 3. MAINTAIN POSITIVE SLOPE FOR FINISHED GRADE AWAY FROM NEW FOUNDATIONS PER CODE.
 4. FIELD VERIFY DIMENSIONS AS REQUIRED.
 5. REFER TO ARCHITECTURAL FOR TERMITE TREATMENT OF SUB-GRADE
 6. SLAB ELEVATIONS SHOWN ARE RELATIVE TO AN ARBITRARY SET REFERENCE DATUM OF 0'-0" ACTUAL ELEVATIONS CAN BE PROVIDED BY A LICENSED SURVEYOR.
 7. MAXIMUM SPACING OF SAWCUT CONTROL JOINTS IN SLAB SHALL BE APPROXIMATELY 15 FEET IN EACH DIRECTION, WITH LENGTH-TO-WIDTH RATIO OF 1.5 OR LESS AT EACH INDIVIDUAL RECTANGULAR AREA. SAWCUT DEPTH SHALL BE 25 PERCENT OF THE SLAB DEPTH. SAWCUT WORK SHALL BE PERFORMED THE SAME DAY AS THE SLAB PLACEMENT, BUT AFTER THE CONCRETE HAS CURED SUFFICIENTLY TO PREVENT RAVELING. EXTERIOR JOINTS SHALL BE FILLED WITH SILICONE SEALANT AND BACKER ROD (OR EQUAL). CONTRACTOR TO COORDINATE SEALING OF INTERIOR JOINTS WITH FLOOR FINISHES.
 8. CONTROL JOINT LAYOUT AT POOL DECK TO BE COORDINATED WITH POOL CONFIGURATION
 9. THE SIZE OF THE WELDED WIRE MESH INDICATED IS RECOMMENDED BY THE STRUCTURAL ENGINEER. HOWEVER, AT THE OWNER AND CONTRACTOR'S RISK, OF INCREASED CRACK DEVELOPMENT, 6XG-W1.4XW1.4 WELDED WIRE MESH MAY BE SUBSTITUTED IN ACCORDANCE WITH THE FLORIDA RESIDENTIAL CODE R506.2.4.2.
 10. FIBER REINFORCED CONCRETE, IF SELECTED, SHALL BE CONCRETE MANUFACTURER'S FIBER MIX THAT COMPLIES WITH THE FLORIDA RESIDENTIAL CODE SECTION R506.2.4.2. MIX SHALL CONTAIN MICRO-OR MACRO-SYNTHETIC FIBER REINFORCEMENT, WITH FIBER LENGTHS OF 1/2" TO 2-1/4". DOSAGE AMOUNTS SHALL BE FROM 1.5 TO 3.0 POUNDS PER CUBIC YARD, AND SYNTHETIC FIBERS SHALL COMPLY WITH ASTM C1116.

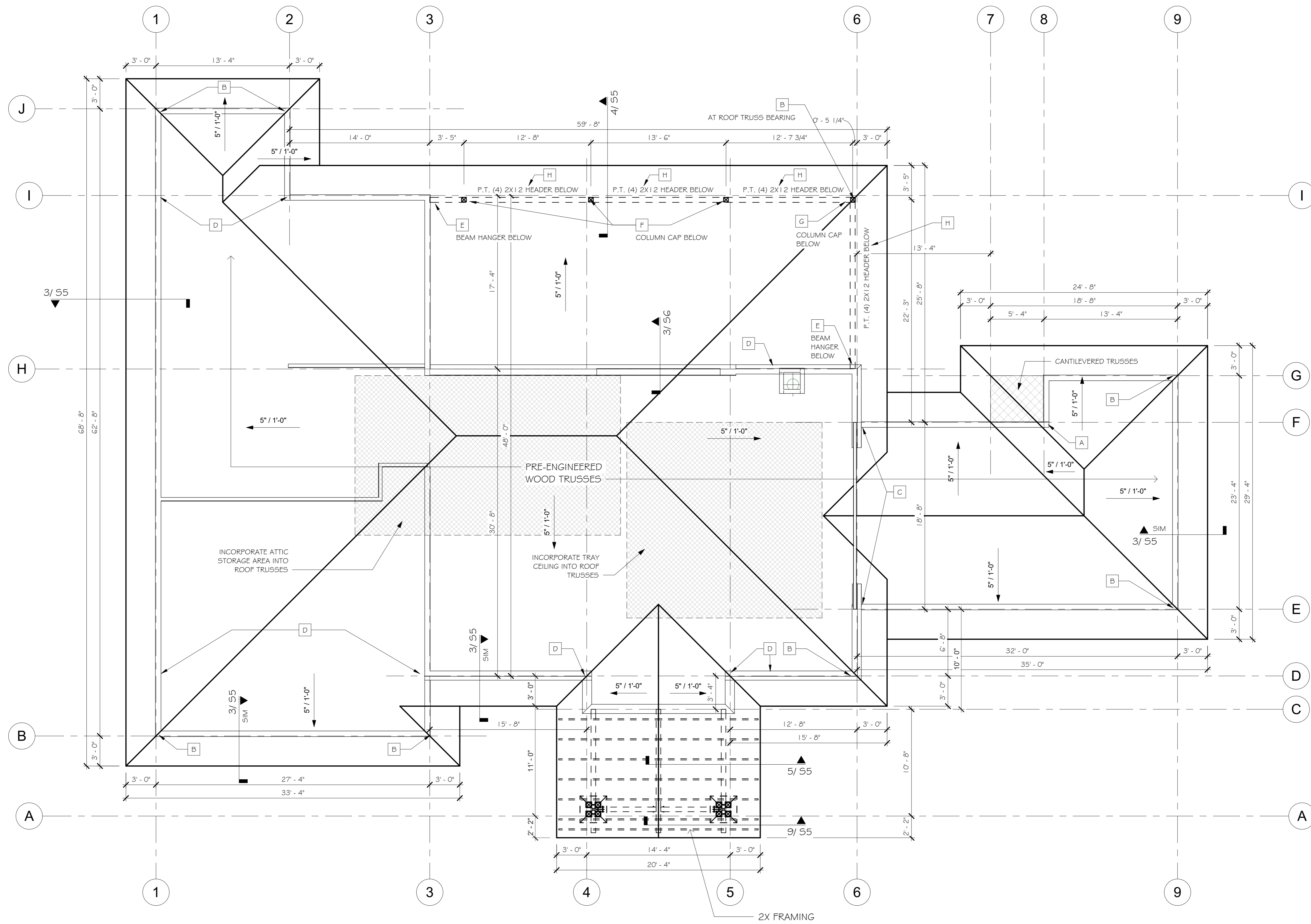
- FOUNDATION PLAN KEYNOTE LEGEND**
- A SIMPSON HTT4 HOLDDOWN WITH 5/8" DIAMETER HOT DIPPED GALV. THREADED ROD. DRILL AND EPOXY (6" EMBEDMENT). PROVIDE NOT LESS THAN (2) 2X6 STUD PACK, UNLESS NOTED. ADDITIONAL STUDS ARE ON PLAN OR HEADER SCHEDULE ON DETAIL 2/56.
 - B SUGGESTED SLAB-ON-GRADE CONTROL JOINT LOCATION. SEE NOTE 7.
 - C 4" CONCRETE SLAB-ON-GRADE OVER 6-MIL POLYETHYLENE VAPOR RETARDER OVER COMPACTED AND TERMITE TREATED SUBGRADE. REINFORCE SLAB WITH ONE OR MORE OF THE FOLLOWING:
 1. W2.9XW2.9-6X6" WELDED WIRE MESH (SEE NOTE 9)
 2. #3 @ 18" O.C. EACH WAY
 3. FIBER REINFORCED CONCRETE. (SEE NOTE 10)
 - D OPTIONAL APRON FOR SURFACE DRAINAGE AT GARAGE ENTRANCE.
 - E P.T. 6X6 COLUMN WITH SIMPSON CBS6GZ BASE AND MANUFACTURER'S 1" HOT DIPPED GALV. STANDOFF, WITH (2) 5/8" DIAMETER HOT DIPPED GALV. THROUGH BOLTS. [NOTE: COLUMN BASE WILL NEED TO BE EMBEDDED IN THE CONCRETE POUR.]
 - F (2) #4X5'-0" LONG RE-ENTRANT CORNER BARS

FOUNDATION PLAN
3/16" = 1'-0"



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ROOF PLAN
3/16" = 1'-0"

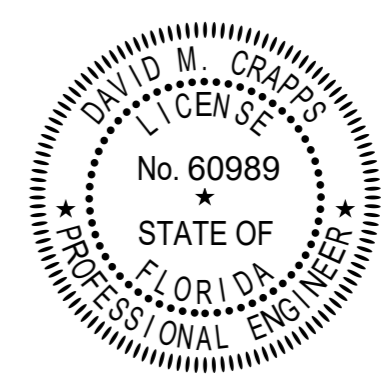
- PLAN NOTES:**
- FIELD VERIFY DIMENSIONS AS REQUIRED.
 - SPIKE MULTIPLE PLY BEAMS (UP TO 14" DEEP) TOGETHER WITH 2 ROWS OF 1 6d GALV. COMMON NAILS @ 12" O.C. PER PLY. ADD A THIRD ROW OF NAILS FOR BEAMS EXCEEDING 14" DEPTH.
 - ROOF SHEATHING SHALL BE 1/2" APA RATED PLYWOOD OR OSB WITH 8d X 2-1/2" LONG HOT-DIPPED GALV. RINGSHANKED NAILS @ 6" O.C. @ PANEL EDGES AND 12" O.C. IN FIELD OF PANEL. PROVIDE 1/8" GAP BETWEEN ADJACENT PANELS AND/OR USE SIMPSON PSCL CLIPS.
 - WALL SHEATHING SHALL BE 1/2" APA RATED PLYWOOD OR OSB WITH 8d X 2-1/2" LONG GALV. RINGSHANKED NAILS @ 6" O.C. @ PANEL EDGES AND 12" O.C. IN FIELD OF PANEL. PROVIDE SOLID 2X BLOCKING @ ANY HORIZONTAL EDGES
 - NAIL STUD PACKS TOGETHER WITH 1 6d HOT-DIPPED GALVANIZED COMMON NAILS @ 6" O.C. STAGGERED PER EACH ADDITIONAL PLY.

- ROOF FRAMING KEYNOTE LEGEND**
- A (2) SIMPSON HGA 1.0, ONE ON EACH SIDE OF HIP BEARING LOCATION.
 - B SIMPSON HCP4Z (ADD 1/2" X 1'-0" LONG PLYWOOD SPACER TO FIT, WITH 4-10d HOT-DIPPED COMMON NAILS, STAGGERED)
 - C (2) SIMPSON L5TA 1.5 @ LVL BEARING LOCATION (SEE TRUSS LAYOUT SHOP DRAWING FOR LVL SIZE) INSTALL STRAPS ON FACE OF LVL AND EXTEND TO STUD WALL.
 - D (3) 2X6 STUD PACK BELOW (ALIGN WITH GIRDER TRUSS LOCATION, FOR TRUSS MARK NO. B8, C1, G3, AND K1. SEE TRUSS LAYOUT SHOP DRAWINGS, BY SEMINOLE TRUSSES, DATED 02/28/2023).
 - E SIMPSON HUCQG 1 22-5DSG HANGER WITH DOUBLE BARRIER (CORROSION-RESISTANT) COATED HEAVY DUTY STRONG DRIVE SCREWS
 - F SIMPSON HCG6HDG COLUMN CAP WITH (G) 5/8" DIAMETER HOT-DIPPED GALVANIZED THROUGH BOLTS. SAND / PLANE INSIDE BEAM PLY AS REQUIRED TO FIT.
 - G SIMPSON ECCLRG6HDG L-SHAPED COLUMN CAP WITH (G) 5/8" DIAMETER HOT-DIPPED GALVANIZED THROUGH BOLTS. SAND / PLANE INSIDE BEAM PLY AS REQUIRED TO FIT.
 - H FASTEN 4-PLY HEADER BEAM PLIES TOGETHER WITH (2) ROWS OF 1/2" DIAMETER HOT-DIPPED GALV. THROUGH BOLTS @ 24" O.C. COUNTERSINK BOLTS AS REQUIRED TO FIT WITH TRIM WORK.

ROOF FRAMING PLAN

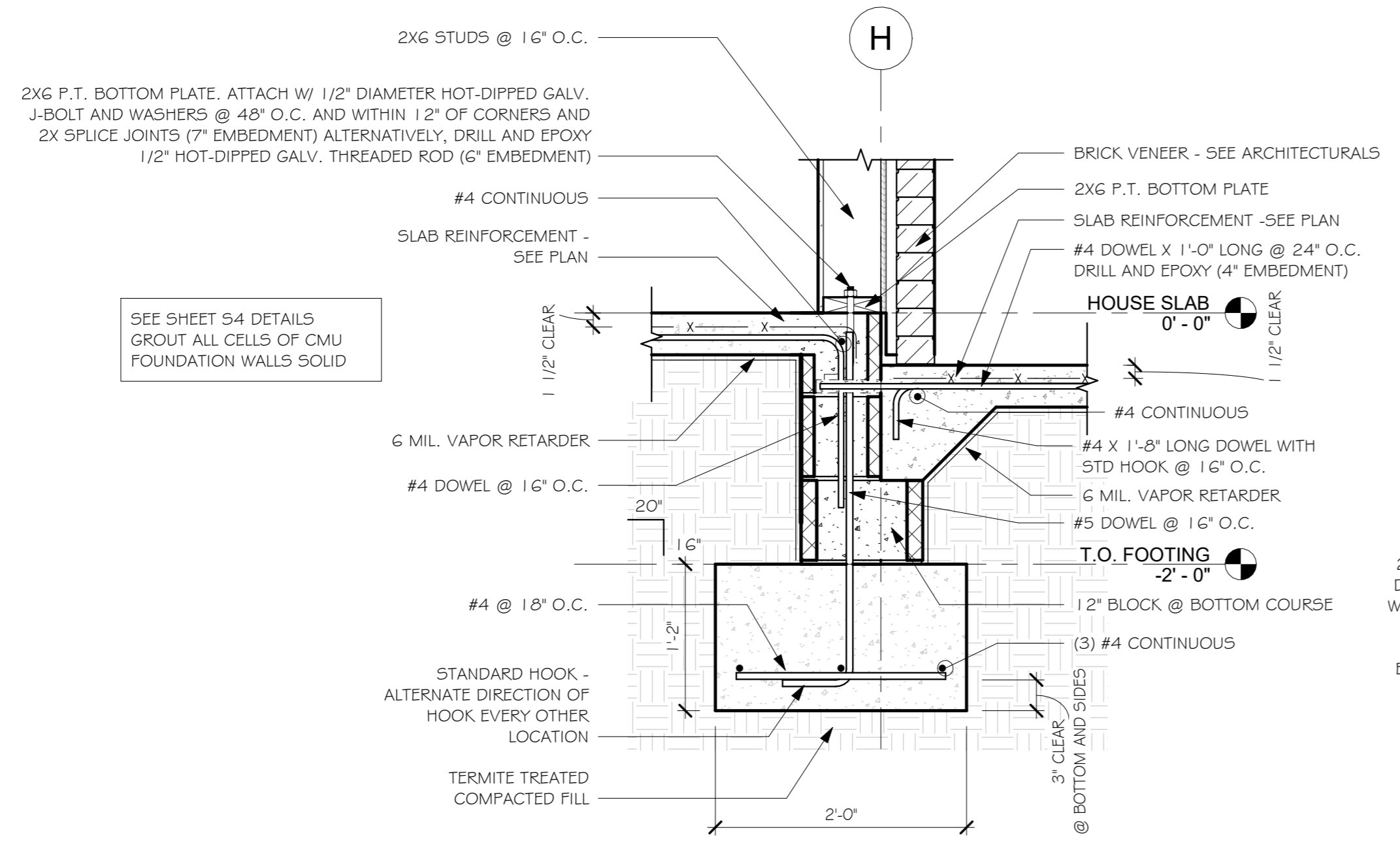
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DRAWN BY: B. HARRIS

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DNC PROJECT NO. 1522

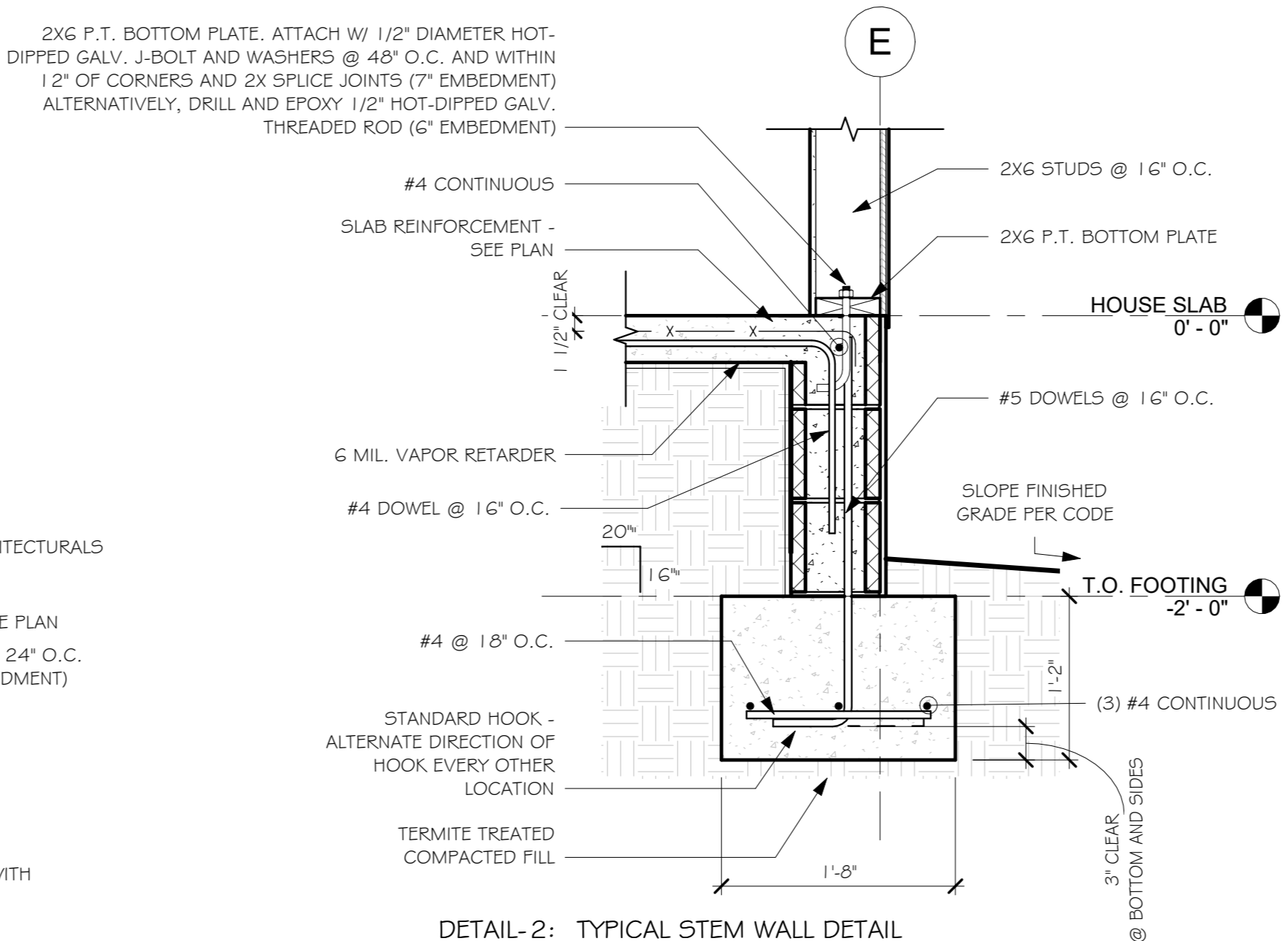


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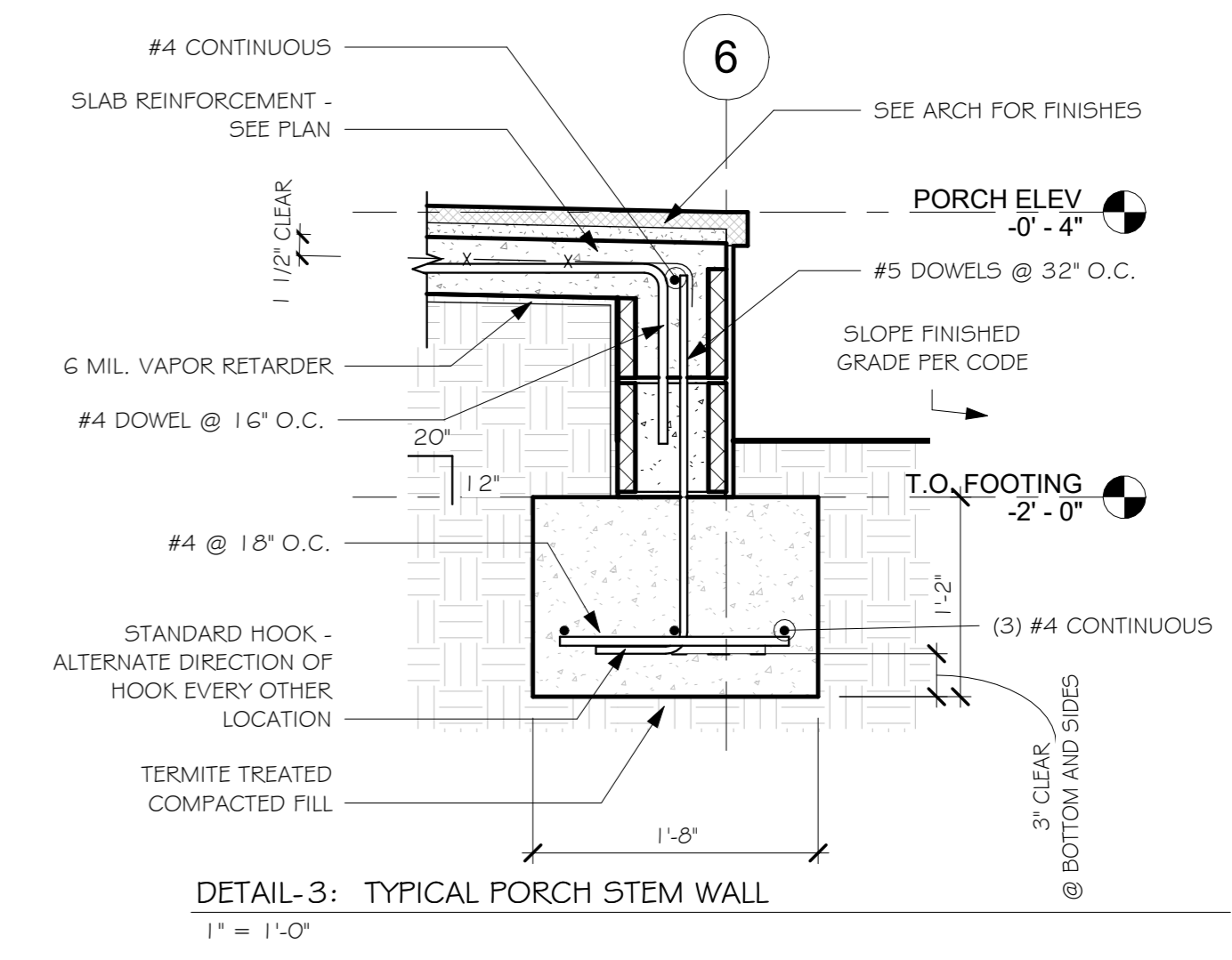
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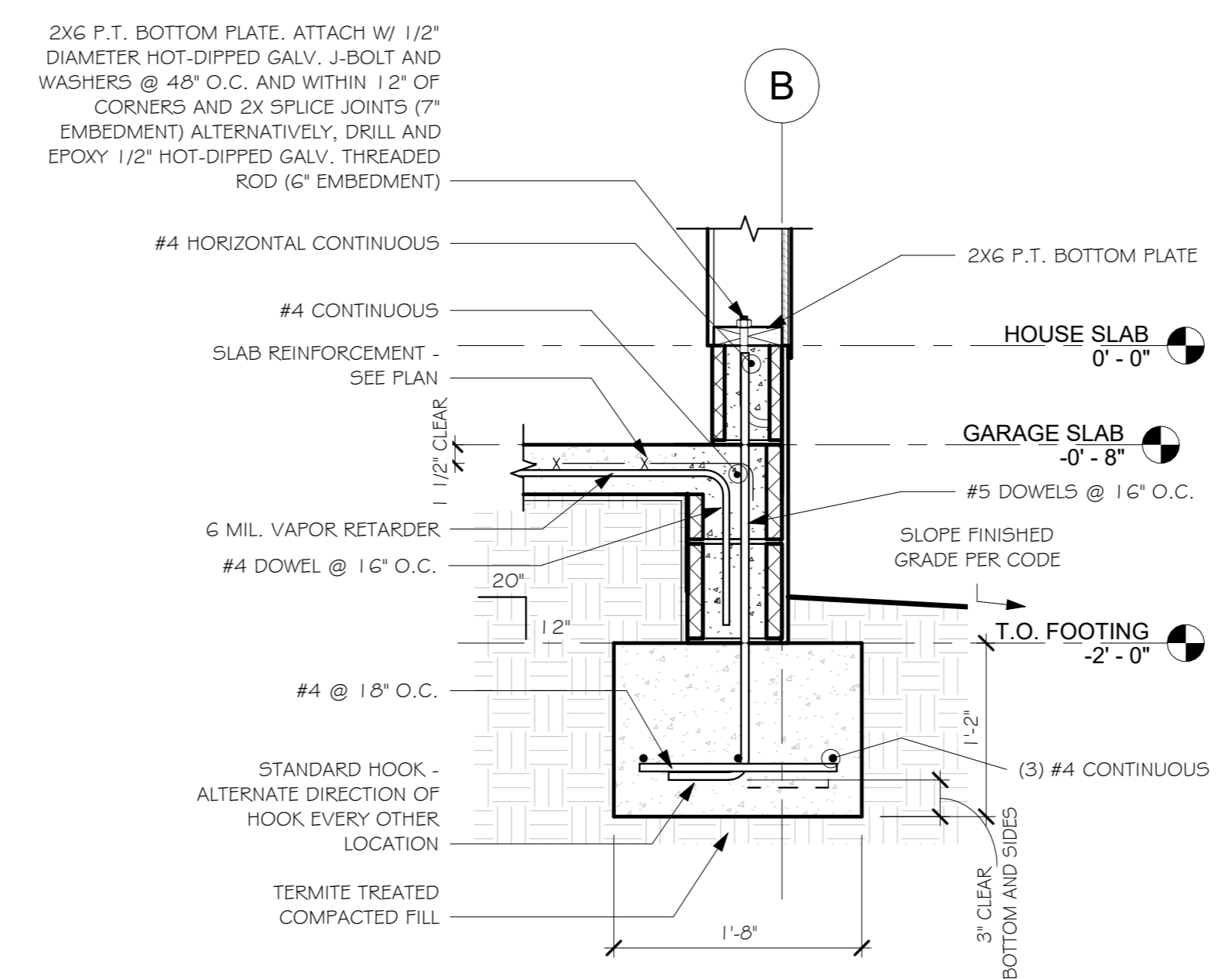
DETAIL-1: FOOTING @ HOUSE AND PORCH
1" = 1'-0"



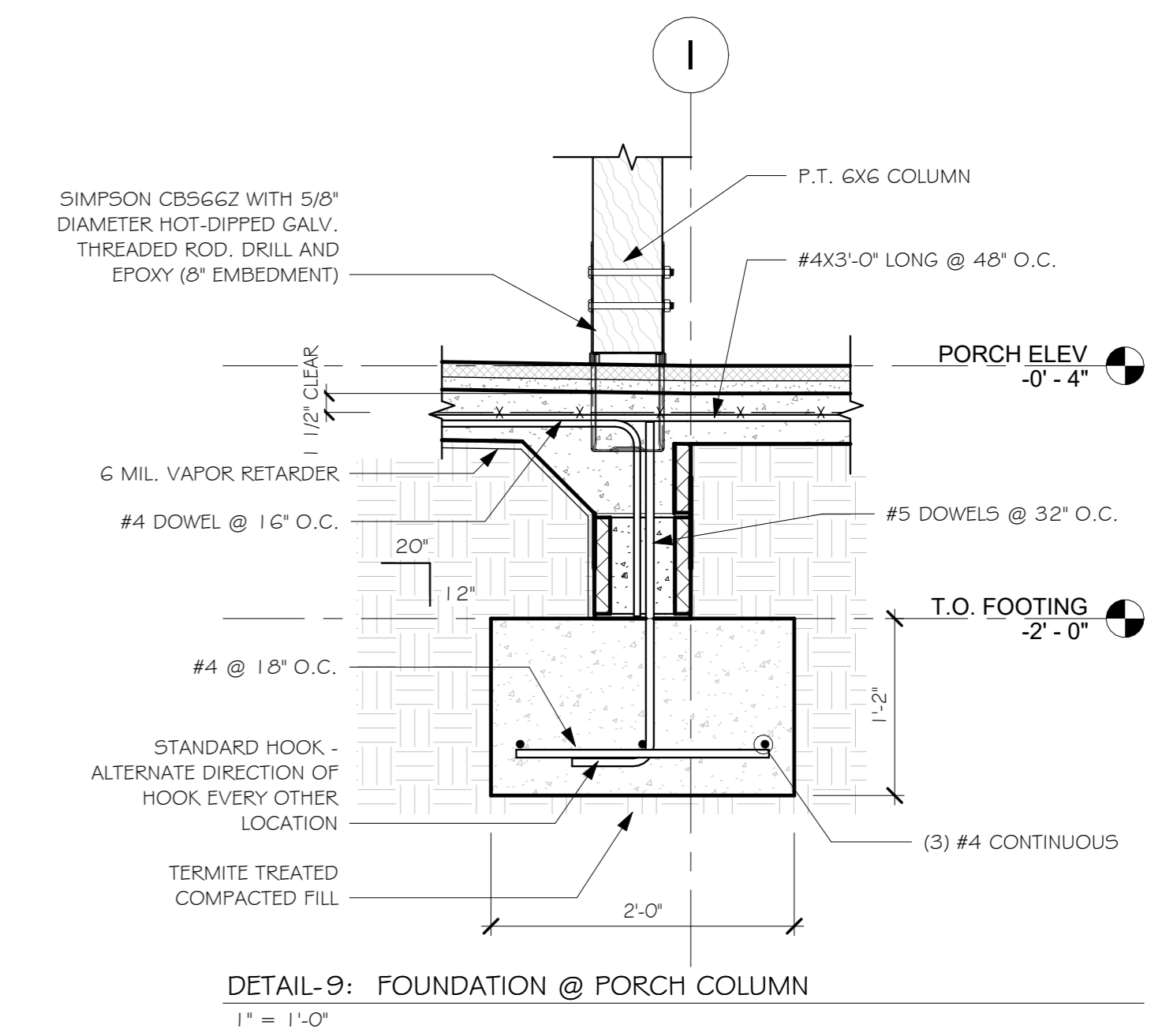
DETAIL-2: TYPICAL STEM WALL DETAIL
1" = 1'-0"



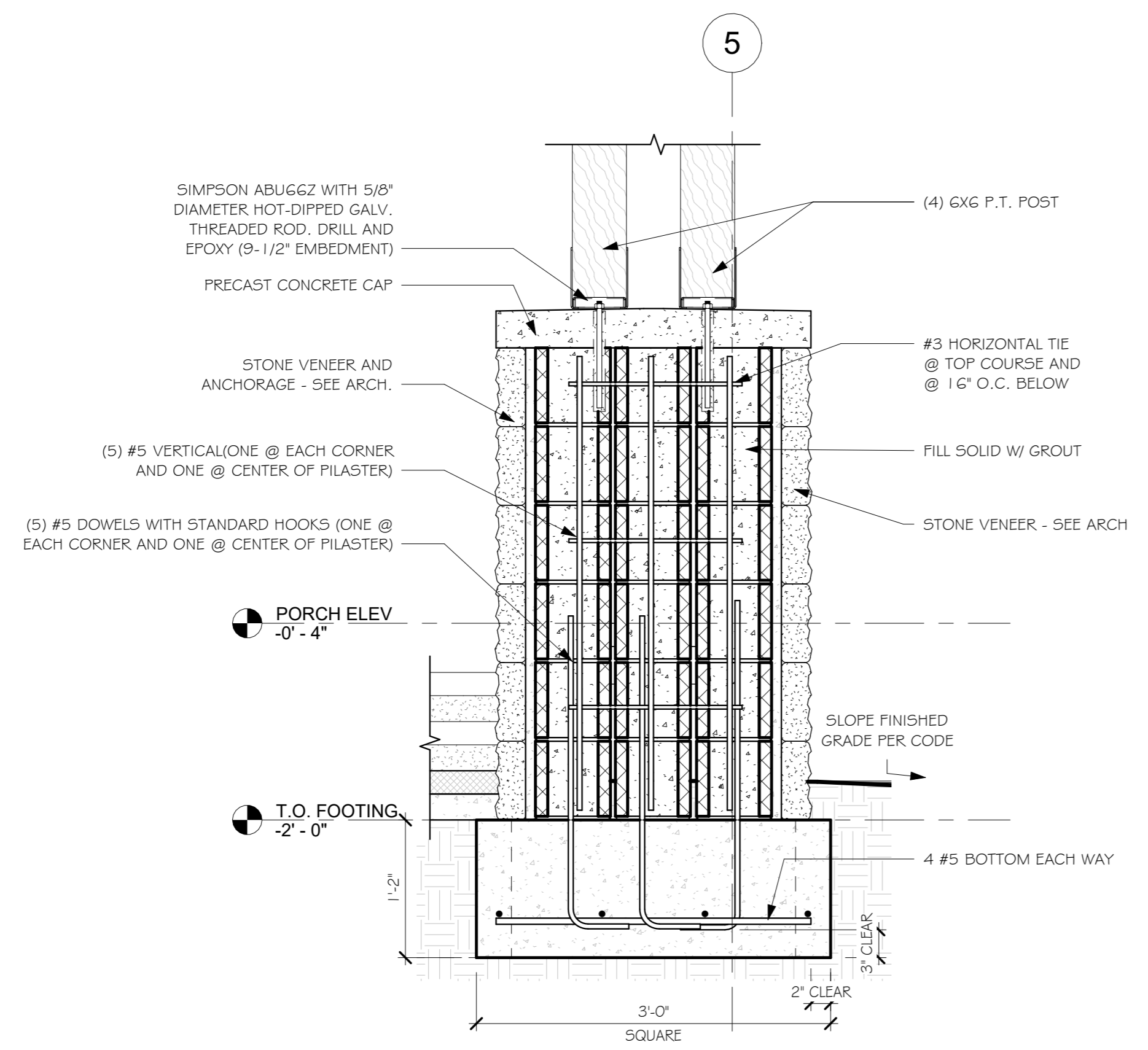
DETAIL-3: TYPICAL PORCH STEM WALL
1" = 1'-0"



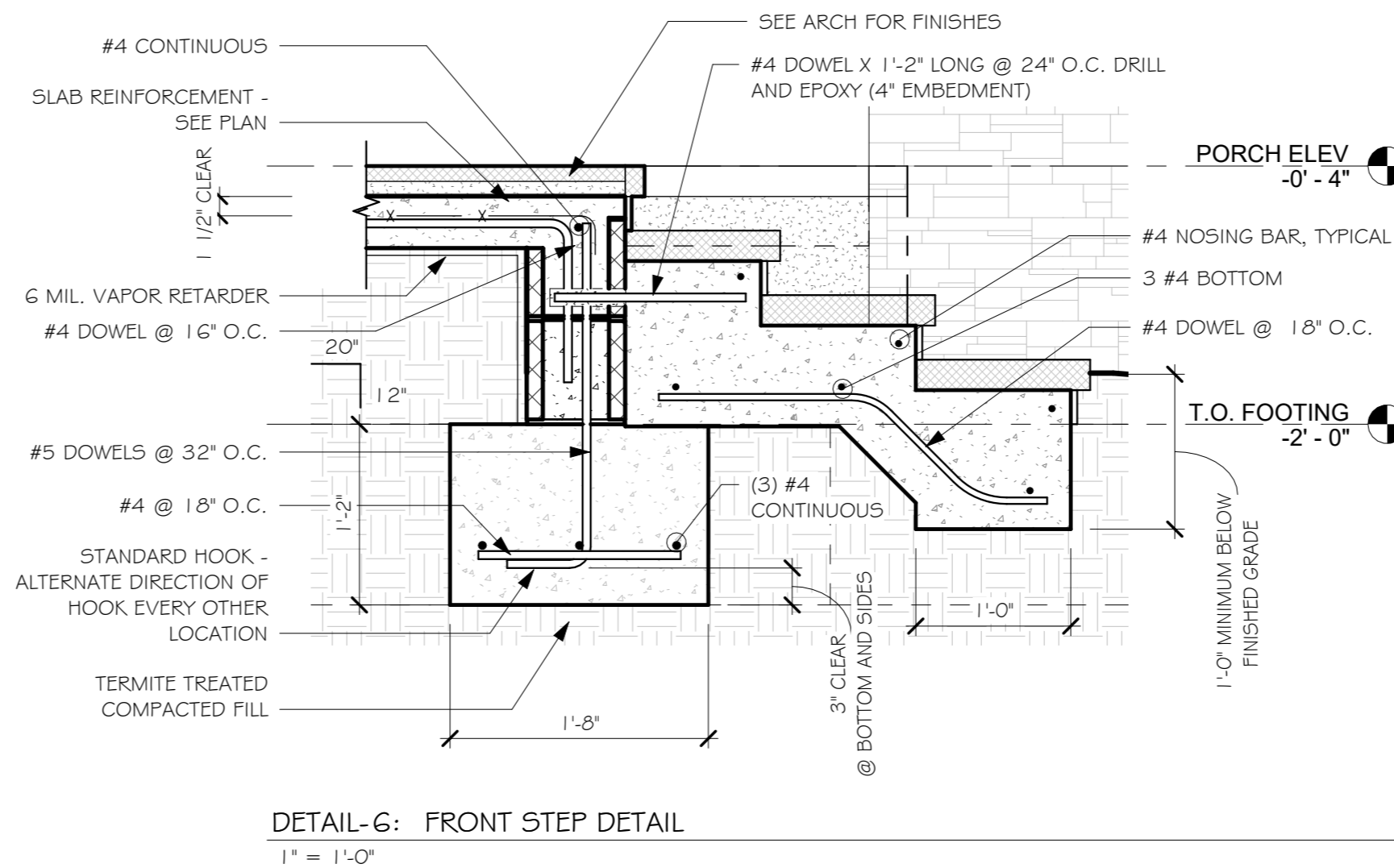
DETAIL-7: FOUNDATION @ GARAGE
1" = 1'-0"



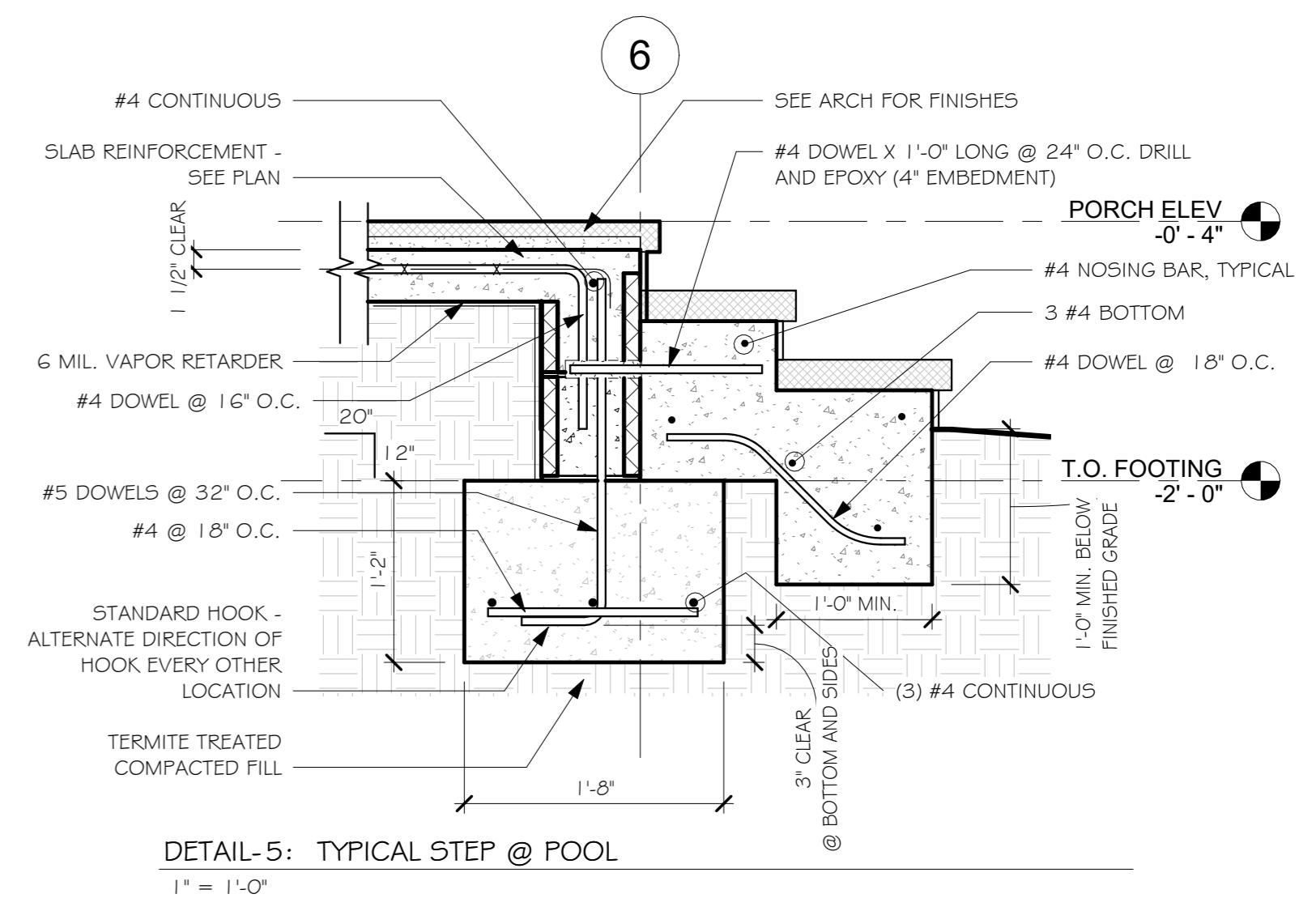
DETAIL-9: FOUNDATION @ PORCH COLUMN
1" = 1'-0"



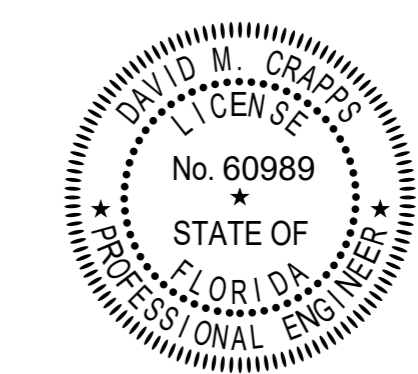
DETAIL-4: TYPICAL FRONT PORCH PIER
1" = 1'-0"



DETAIL-6: FRONT STEP DETAIL
1" = 1'-0"



DETAIL-5: TYPICAL STEP @ POOL
1" = 1'-0"

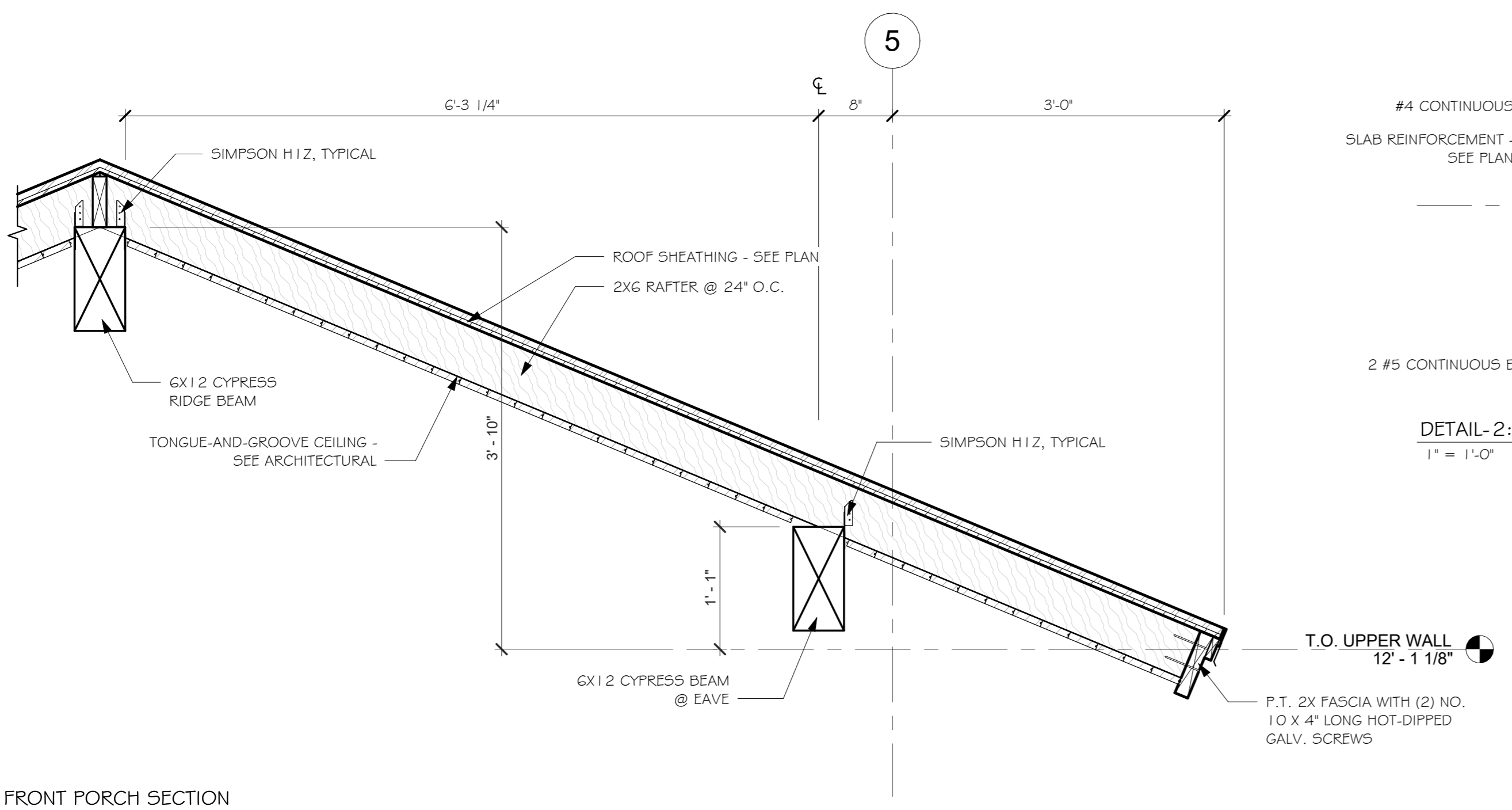


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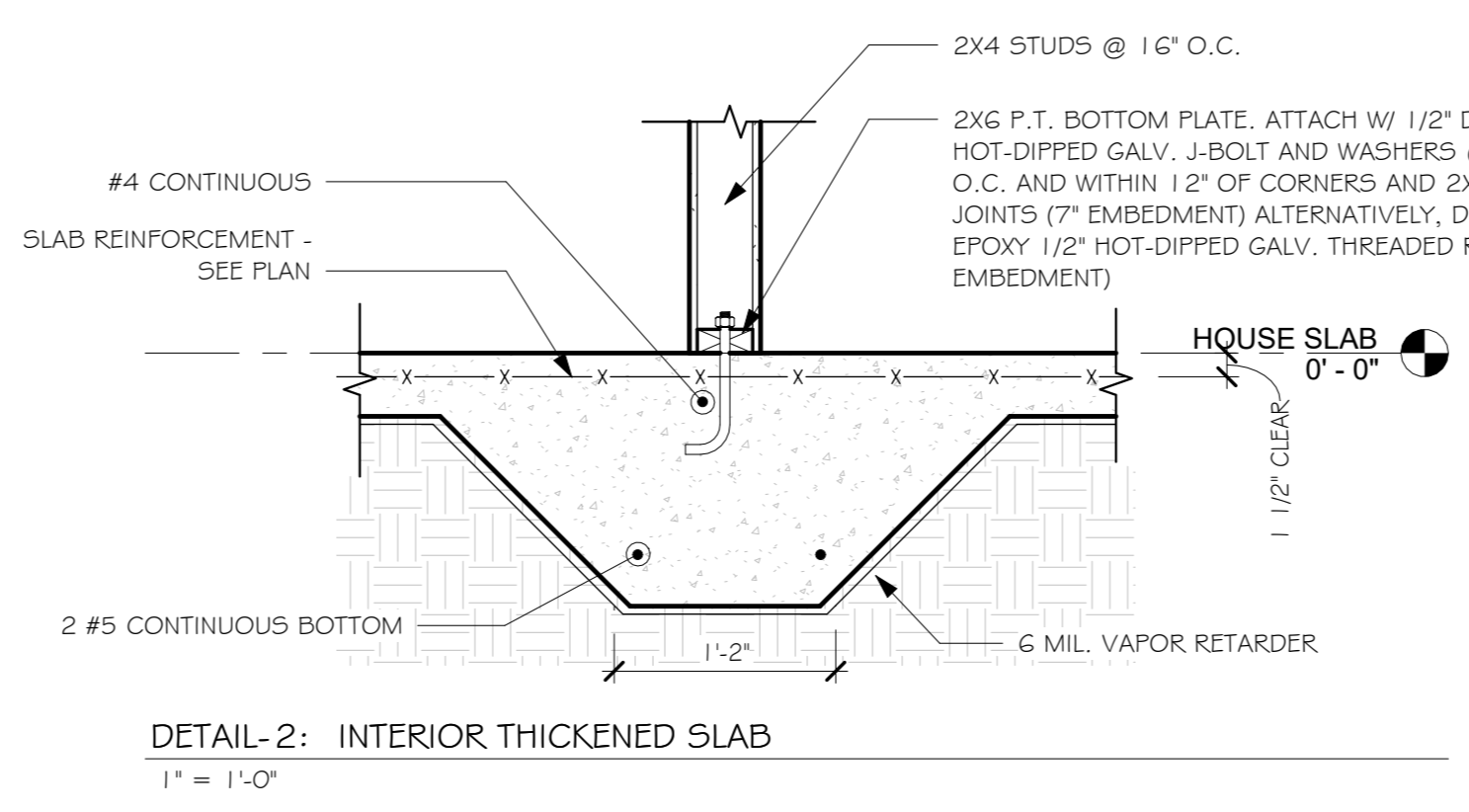
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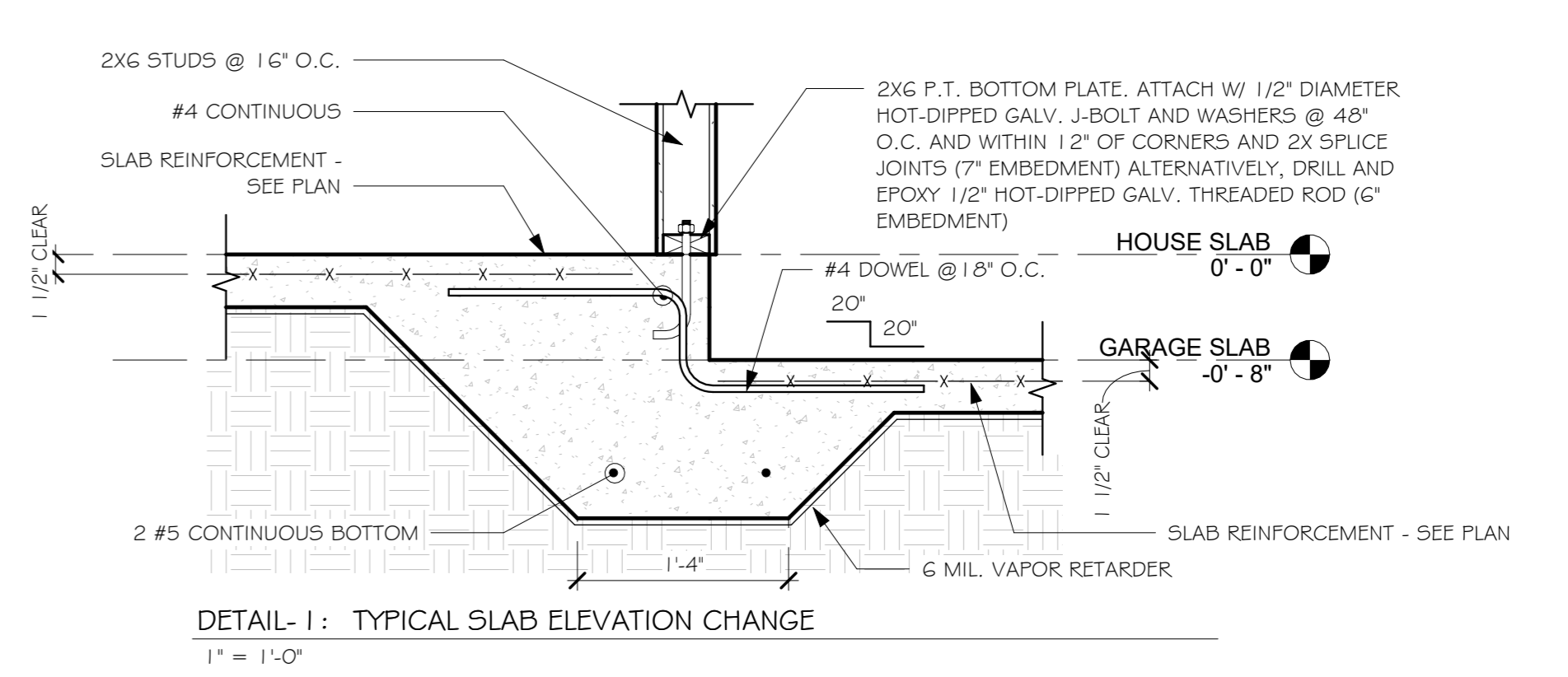
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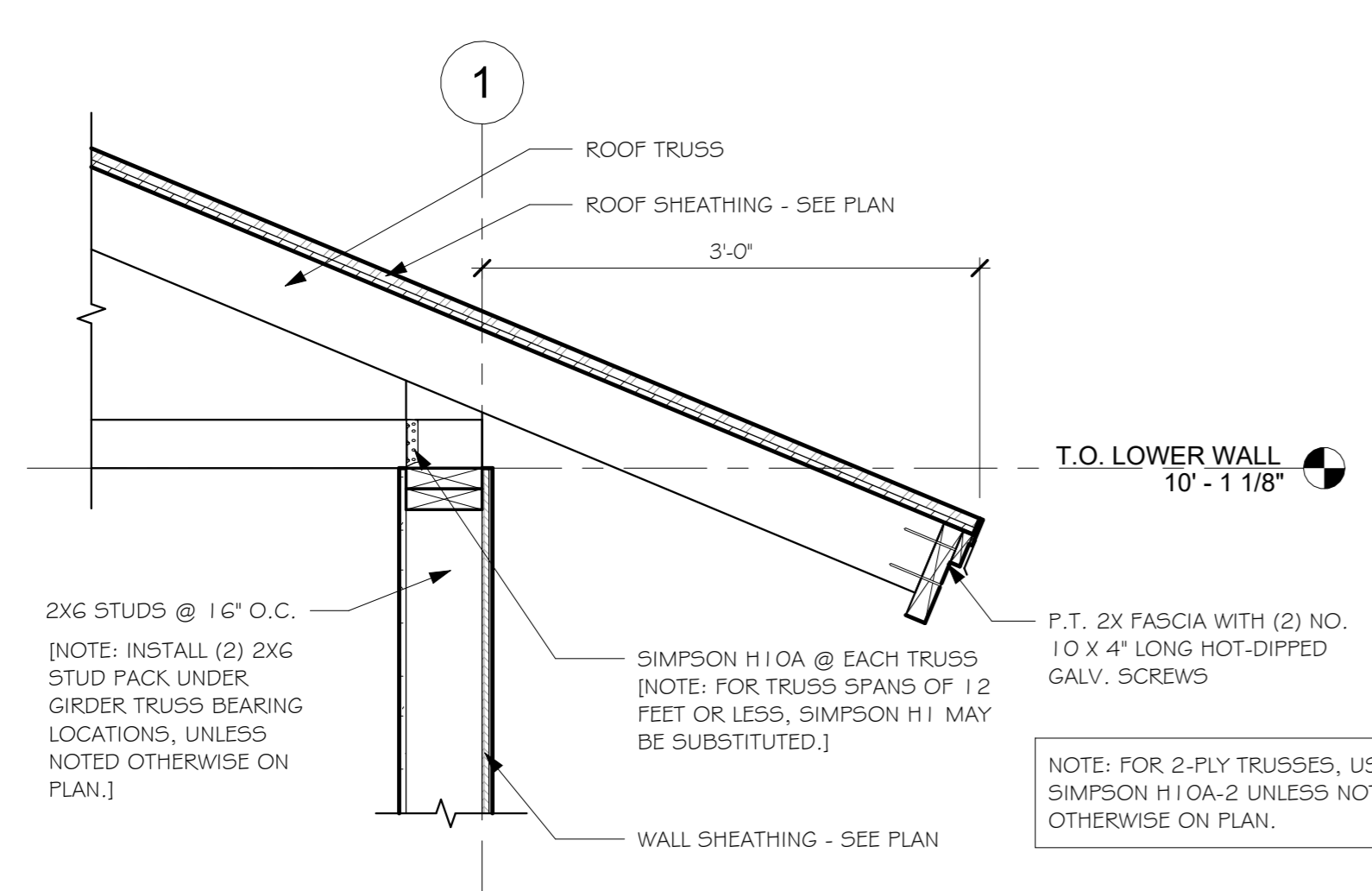
DETAIL-5: FRONT PORCH SECTION
1" = 1'-0"



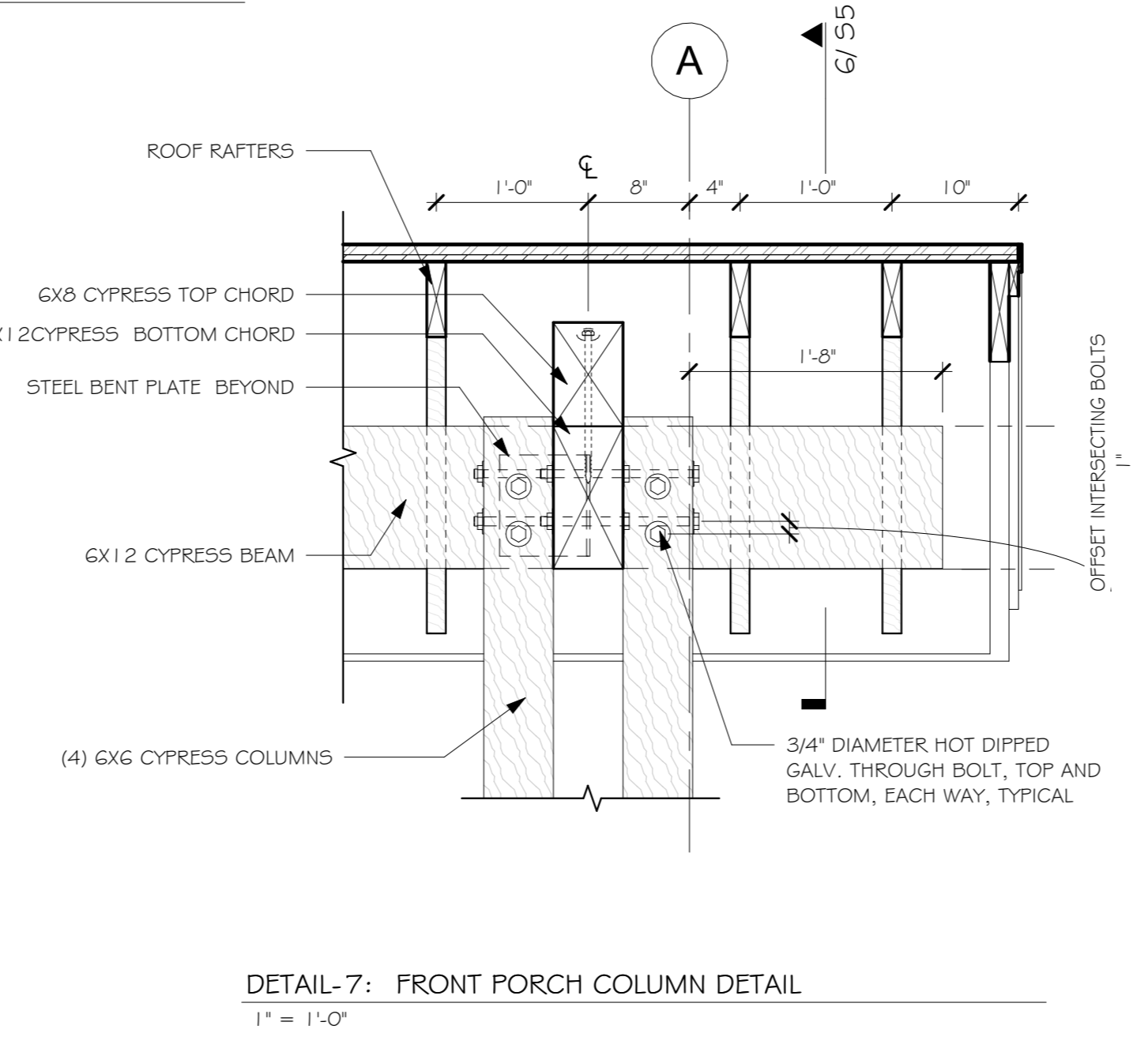
DETAIL-2: INTERIOR THICKENED SLAB
1" = 1'-0"



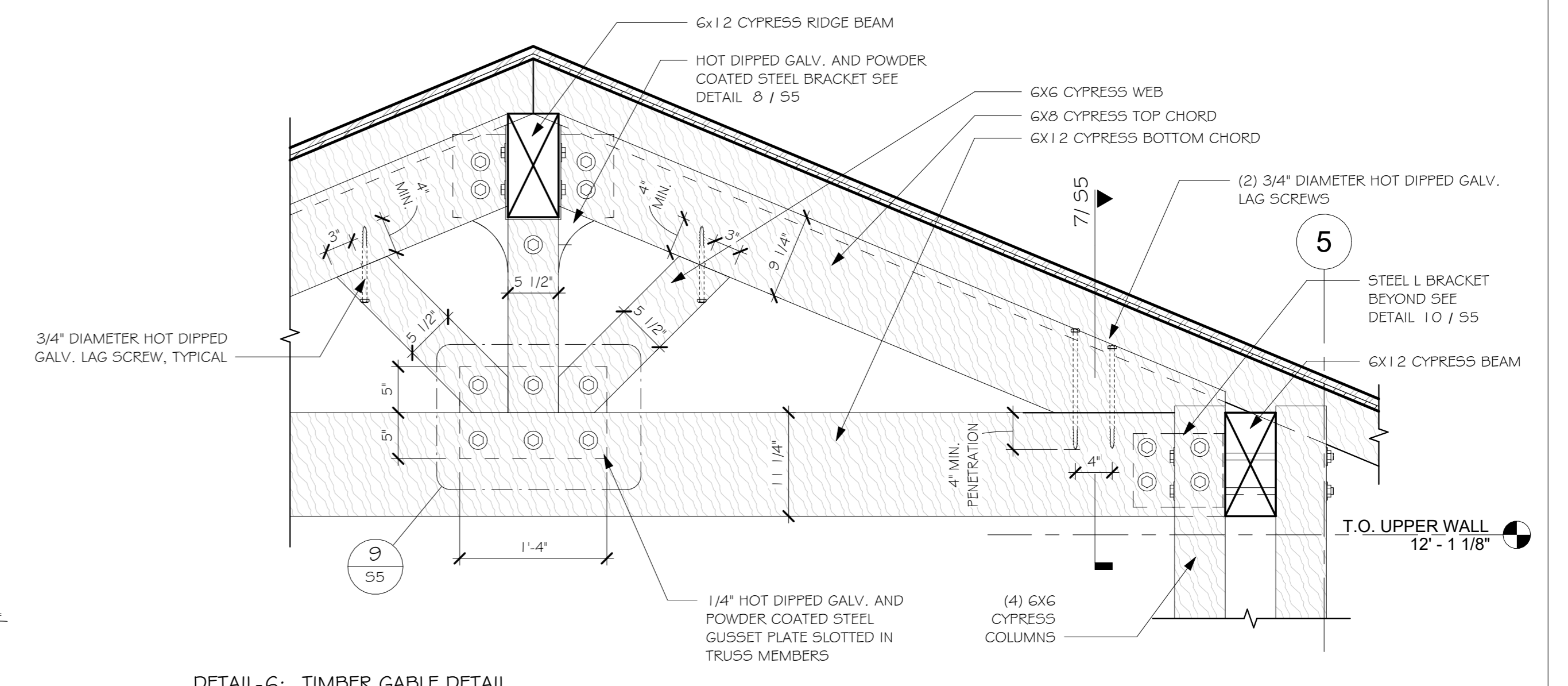
DETAIL-1: TYPICAL SLAB ELEVATION CHANGE
1" = 1'-0"



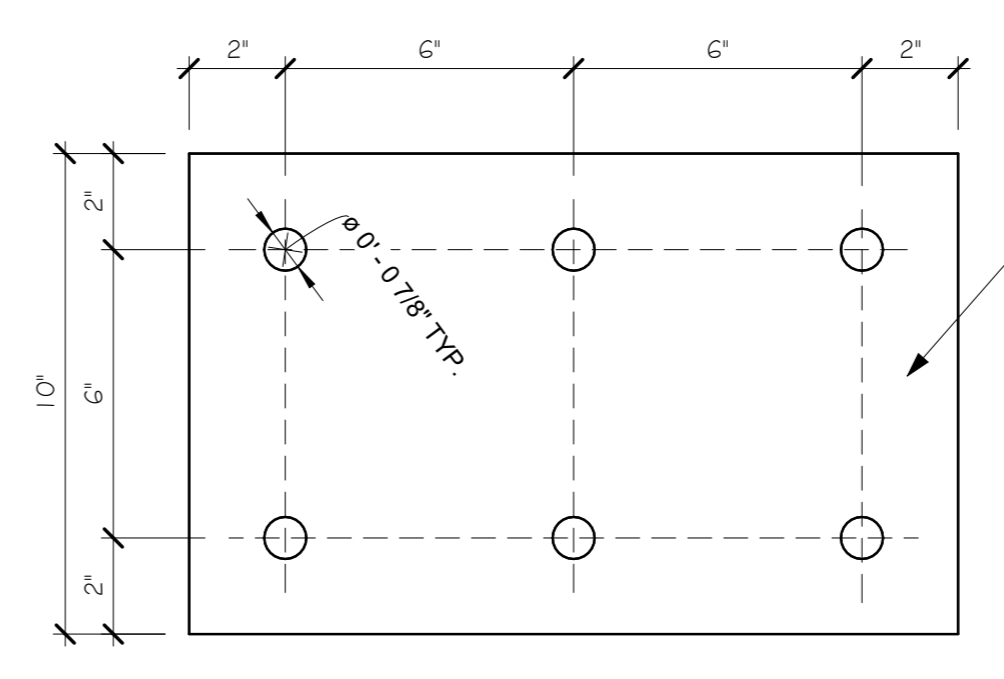
DETAIL-3: TYPICAL EAVE DETAIL
1" = 1'-0"



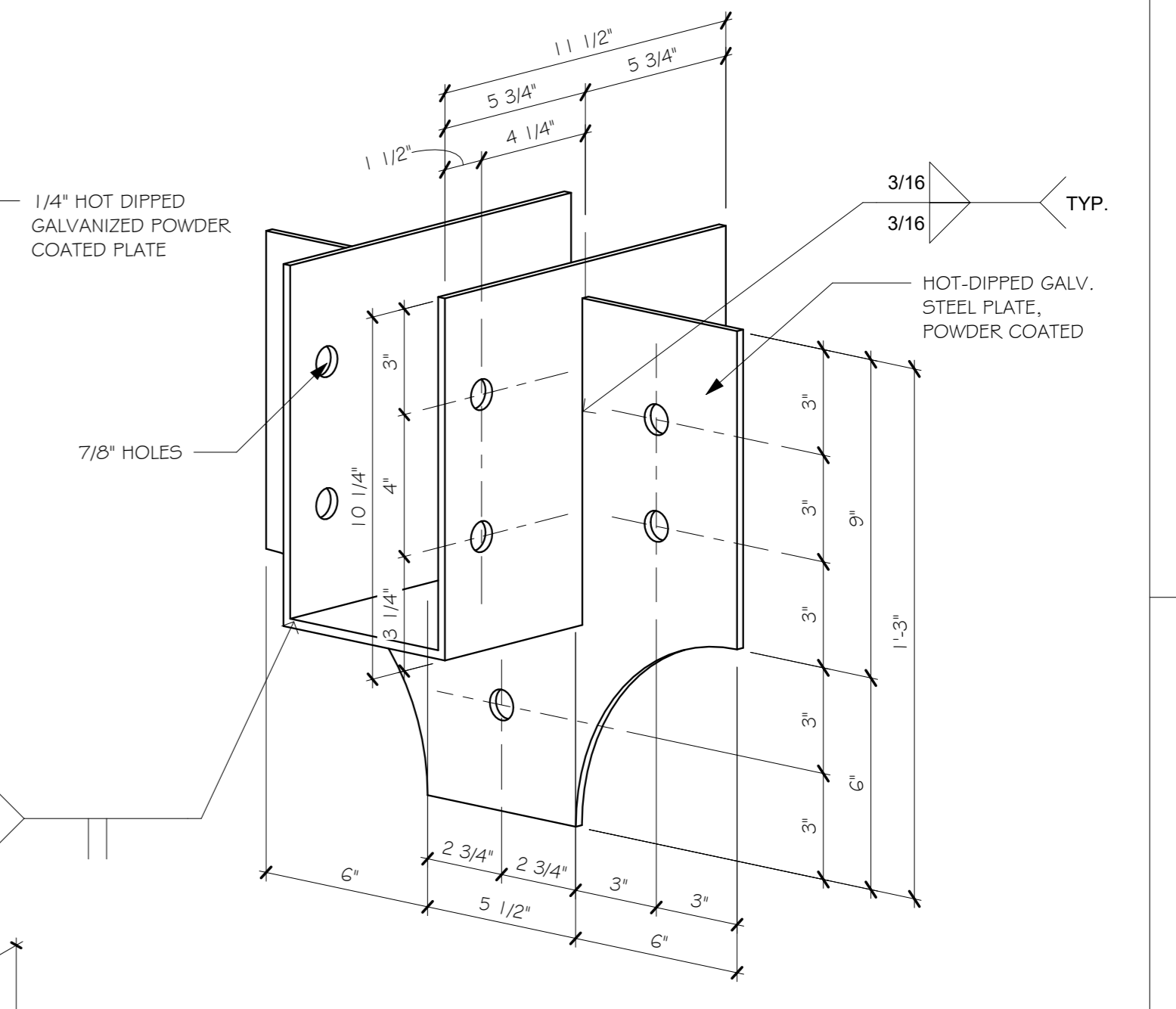
DETAIL-7: FRONT PORCH COLUMN DETAIL
1" = 1'-0"



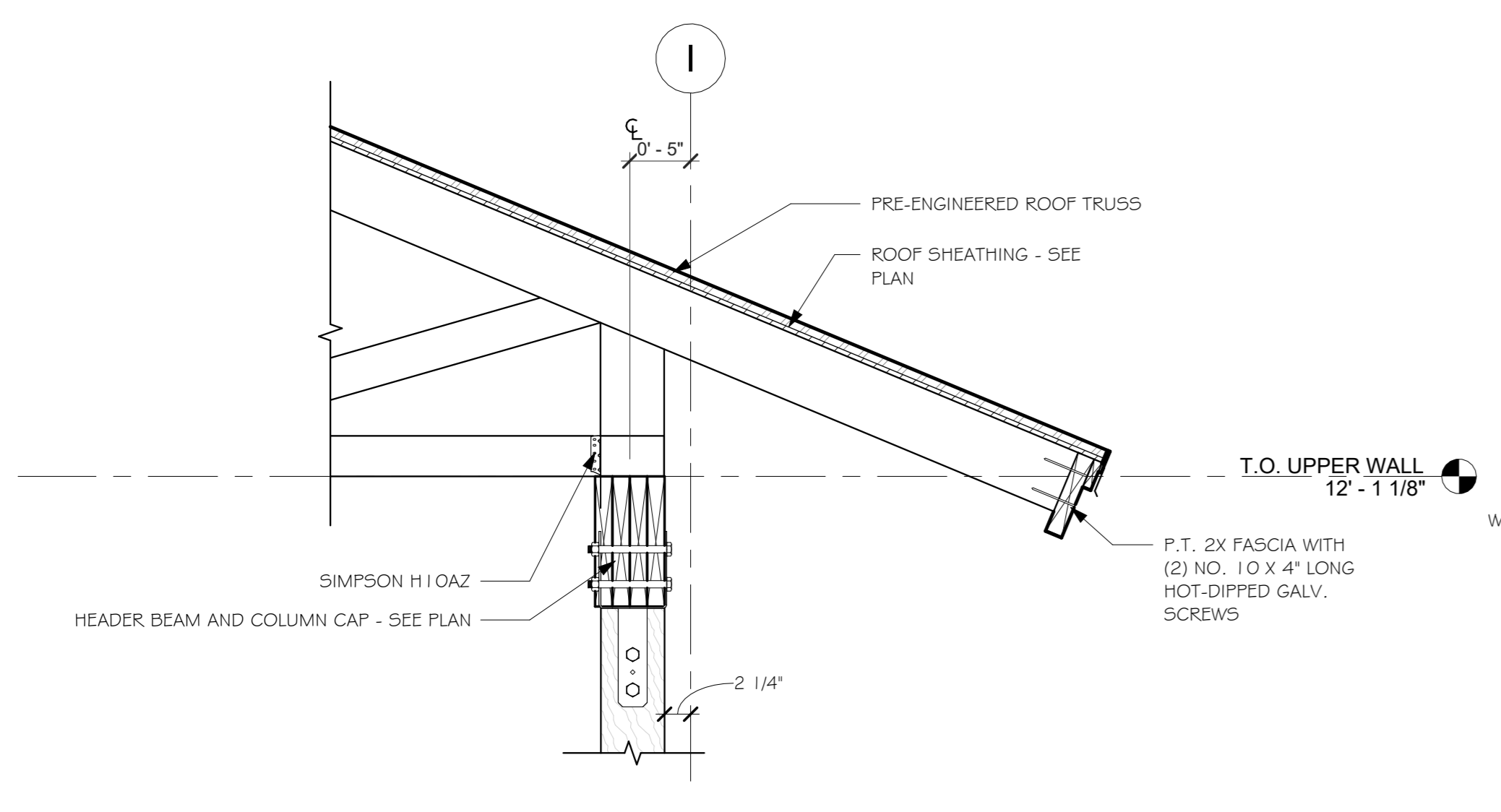
DETAIL-6: TIMBER GABLE DETAIL
1" = 1'-0"



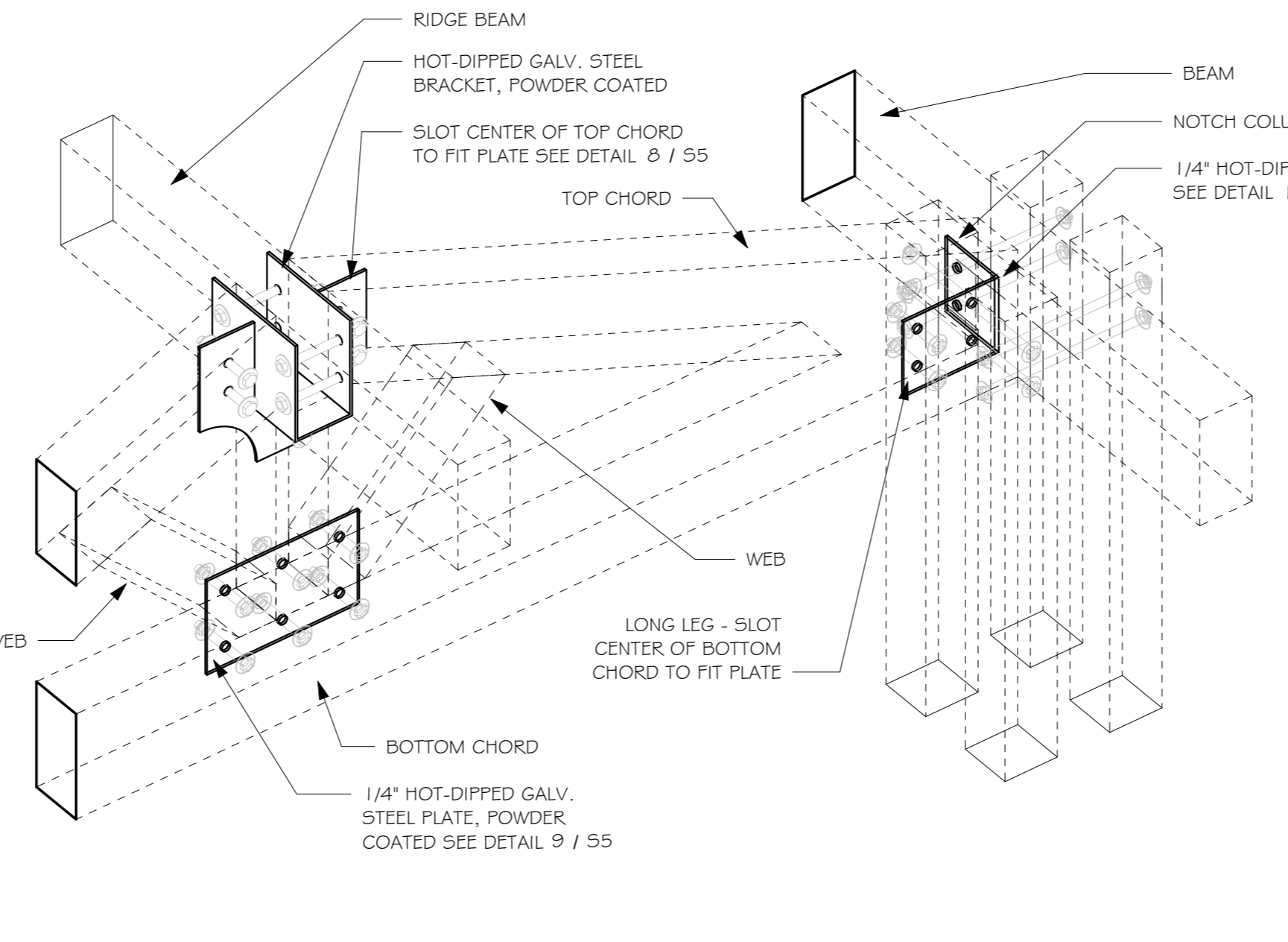
DETAIL-9: STEEL PLATE DETAIL
3" = 1'-0"



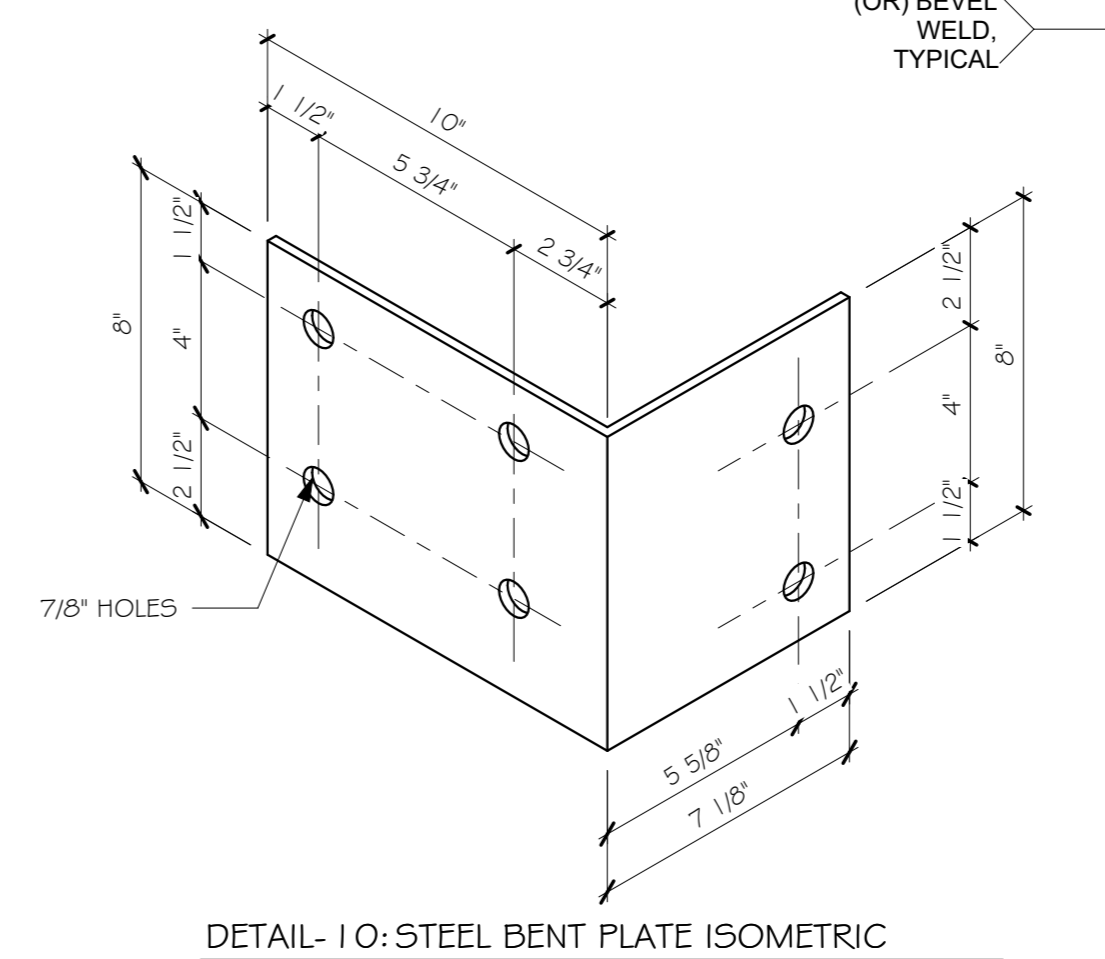
DETAIL-8: STEEL BRACKET ISOMETRIC



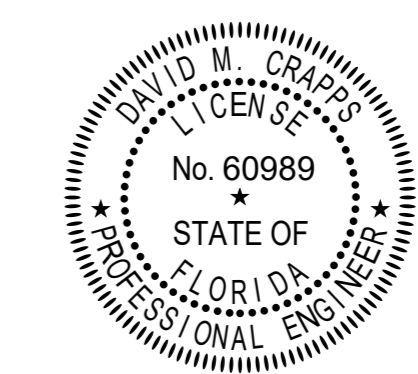
DETAIL-4: EAVE DETAIL @ REAR PORCH
1" = 1'-0"



DETAIL-11: STEEL BRACKET INSTALLATION

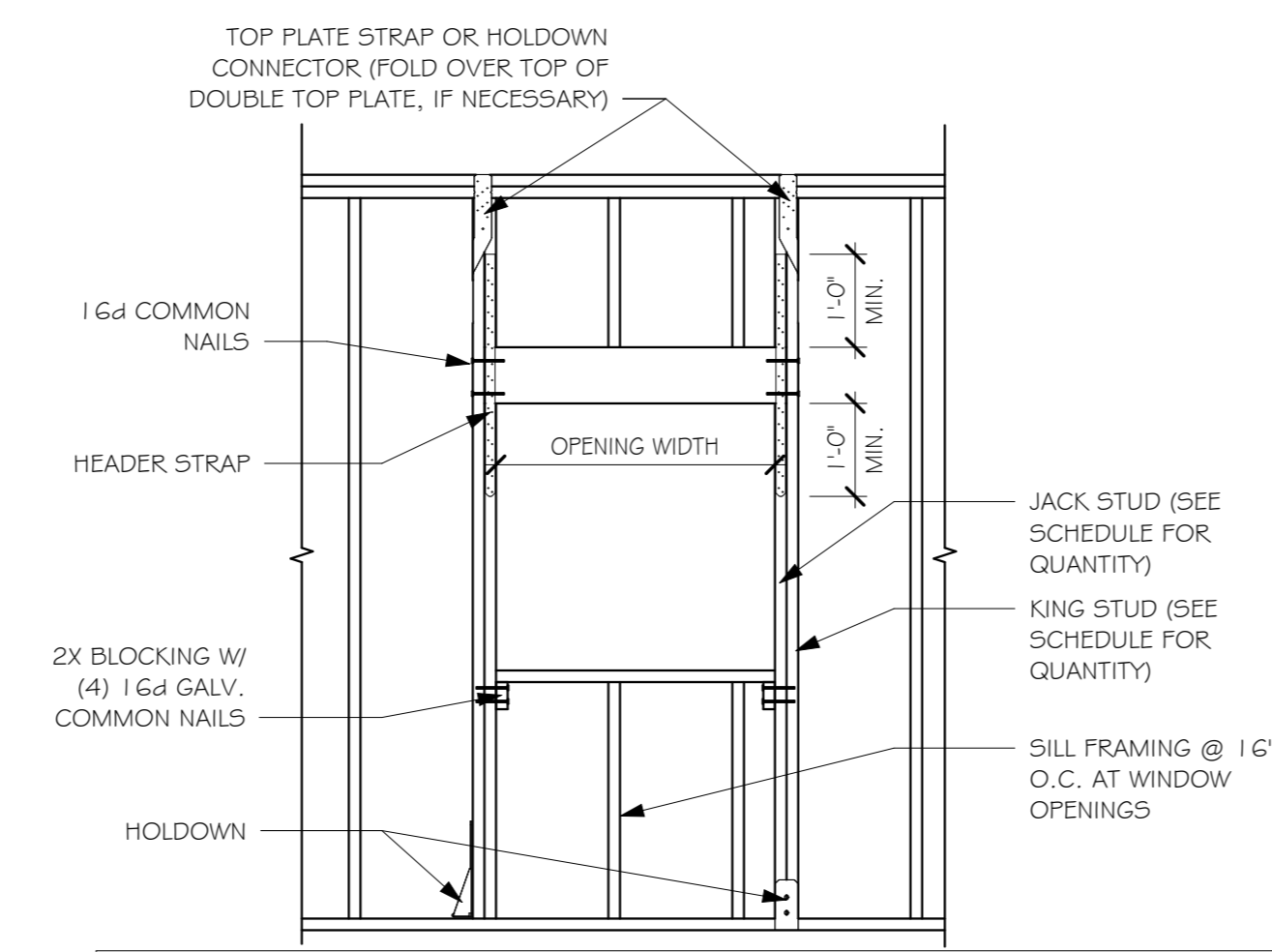


DETAIL-10: STEEL BENT PLATE ISOMETRIC



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MAXIMUM OPENING WIDTH	HEADER SIZE	Jack Studs	King Studs	Simpson Strong-Tie Connectors		
				Top Plate	Header	Holdown
4' - 0"	(3) 2x6	(1) 2x6	(1) 2x6	HG	LSTA30	DSPZ
6' - 0"	(3) 2x8	(1) 2x6	(2) 2x6	HG	(2) LSTA30	DTT2Z*
10' - 0"	(3) 2x12	(2) 2x6	(2) 2x6	(2) HG	(2) LSTA30	DTT2Z*
12' - 0"	(3) 1-3/4" X 11-1/4" LVL	(2) 2x6	(2) 2x6	(2) HG	(2) LSTA30	HTT4*
18' - 0"	(3) 1-3/4" X 16" LVL	(2) 2x6	(3) 2x6	(2) HG	(2) LSTA30	HTT4*

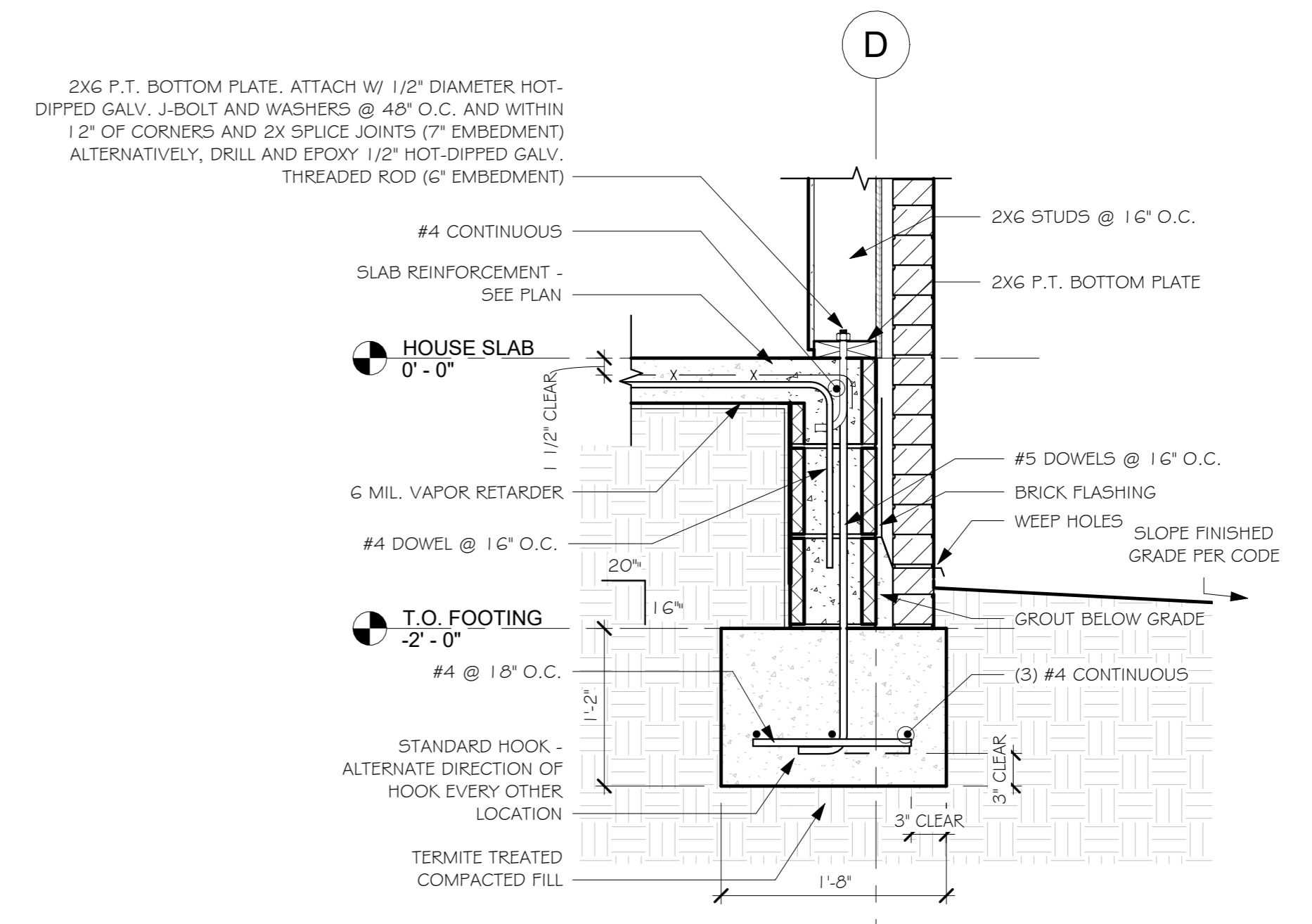
- * DRILL AND EPOXY HOT-DIPPED GALVANIZED THREADED ROD (1/2" DIAMETER FOR DTT2Z, 5/8" DIAMETER FOR HTT4), 6" EMBEDMENT.
- NOTES:
1. ALL LUMBER SHALL BE SOUTHERN PINE NO. 2 OR BETTER OR SPRUCE PINE FUR NO. 2 GRADE OR STRONGER.
 2. USE PLYWOOD SPACERS BETWEEN HEADER PLIES AS REQUIRED TO MATCH STUD DEPTH.
 3. NAIL STUD PACKS TOGETHER WITH 1 1/2" GALV. COMMON NAILS @ 6" O.C. STAGGERED.
 4. INTERIOR NON-LOAD BEARING WALL HEADERS SHALL BE NOT LESS THAN CODE MINIMUMS.
 5. USE 8d GALV. COMMON NAILS ON SIMPSON HG, FULLY NAILED.
 6. USE 10d GALV. COMMON NAILS ON SIMPSON CS16, FULLY NAILED.
 7. SIMPSON CS16 MAY BE SUBSTITUTED FOR LSTA30.
 8. INSTALL HEADER STRAPS FROM THE INSIDE FACE OF WALL. IF THE TABLE CALLS FOR 2 HEADER STRAPS AT 1 JACK STUD, INSTALL 1 STRAP ON INSIDE FACE OF WALL AND 1 STRAP ON THE EXTERIOR FACE OF WALL. STAGGER NAIL LOCATIONS AS REQUIRED.

DETAIL-2: HEADER SCHEDULE
1/2" = 1'-0"

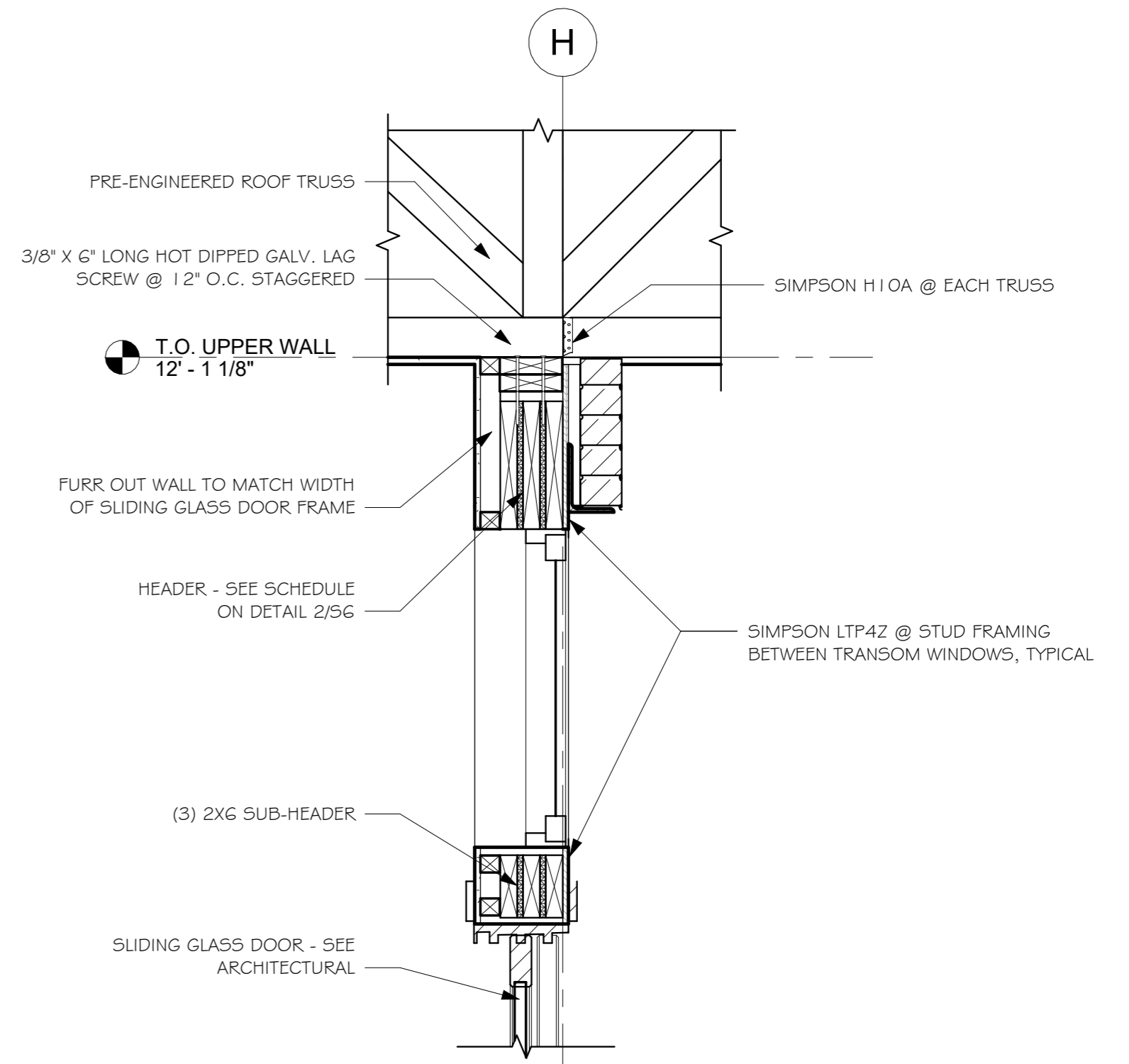
LOOSE LINTEL SCHEDULE		
CLEAR SPAN	SIZE	MINIMUM LENGTH OF BEARING AT EACH JAMB
UP TO 9'-0"	L 4X4X1/4	8 INCHES
UP TO 9'-0"	L 4X4X1/4	8 INCHES

- NOTES:
1. ALL LOOSE LINTELS SHALL BE HOT-DIPPED GALVANIZED
 2. DO NOT PLACE VERTICAL EXPANSION JOINT OVER WALL OPENINGS WITH LOOSE LINTELS
 3. PROVIDE TEMPORARY SHORING OF LINTELS UNTIL THE MORTAR CURES TO AT LEAST 75% OF ITS SPECIFIED DESIGN STRENGTH
 4. BRICK TIES SHALL BE INSTALLED AT NOT MORE THAN 18" O.C. EACH WAY.

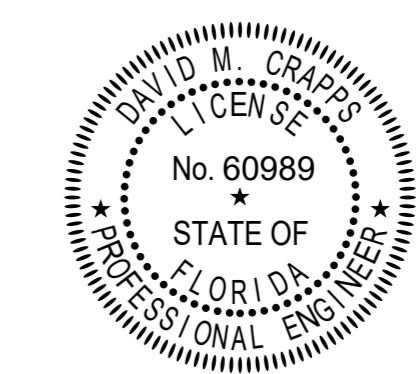
DETAIL-4: LOOSE LINTEL SCHEDULE
1/2" = 1'-0"



DETAIL-1: TYPICAL STEM WALL @ BRICK
1" = 1'-0"



DETAIL-3: WALL SECTION @ SLIDING GLASS DOORS
1" = 1'-0"



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