

EXPIRES: 6-30-2024  
7-13-22

**NORTHEAST ELEVATION**

$\frac{3}{16}'' = 1'-0''$

**CONTRACTOR TO FIELD  
VERIFY ALL DIMENSIONS**

SCALES NOTED ON DRAWINGS ARE FOR  
11"x17" SHEET SCALE ACCORDINGLY  
FOR DIFFERENT SIZE SHEET

1419 Washington St,  
Suite 100  
Oregon City, Oregon 97045  
Work: 503-657-9800  
Cell: 503-449-3080  
Andy@jasenginc.com



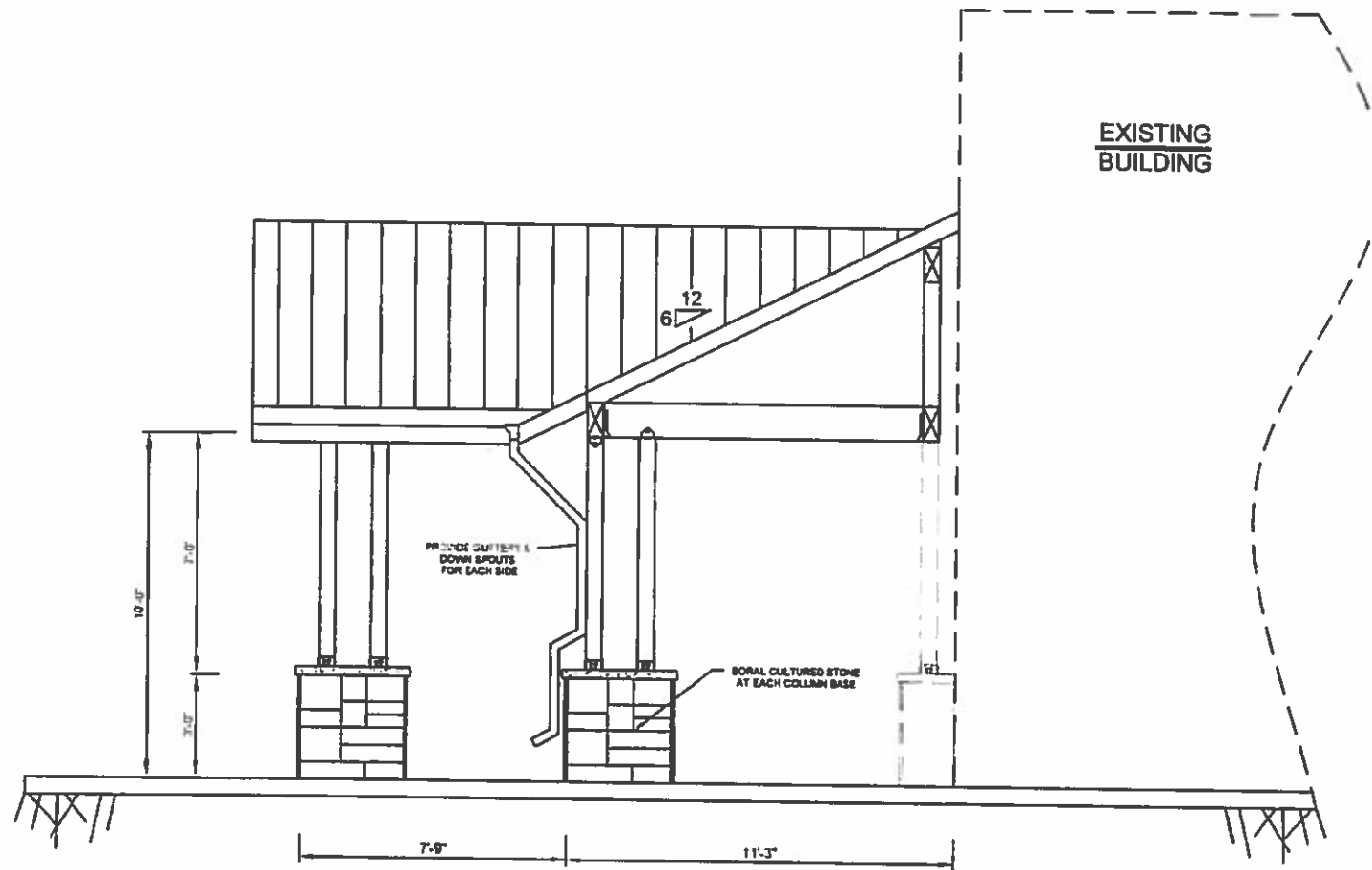
WIPPERSNAPPERS COVER STRUCTURE  
MOUNTAIN VIEW CONTRACTING  
16542 SE 362ND AVE.,  
SANDY, OR 97055

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		DRAWN BY: JLN	
		JAS PROJ NO: 22-020	

**SHEET TITLE:**  
**NORTHEAST  
ELEVATION**

**SHEET NO:**  
**A-1.1**

**CONTRACTOR TO FIELD  
VERIFY ALL DIMENSIONS**



EXPIRES: 6-30-2024  
7-13-22

**SOUTHEAST ELEVATION**  
3/16" = 1'-0"

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11"x17" SHEET. SCALE ACCORDINGLY  
FOR DIFFERENT SIZE SHEET.

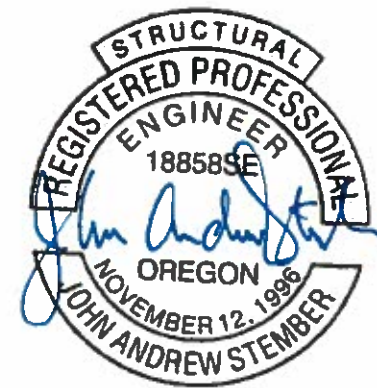
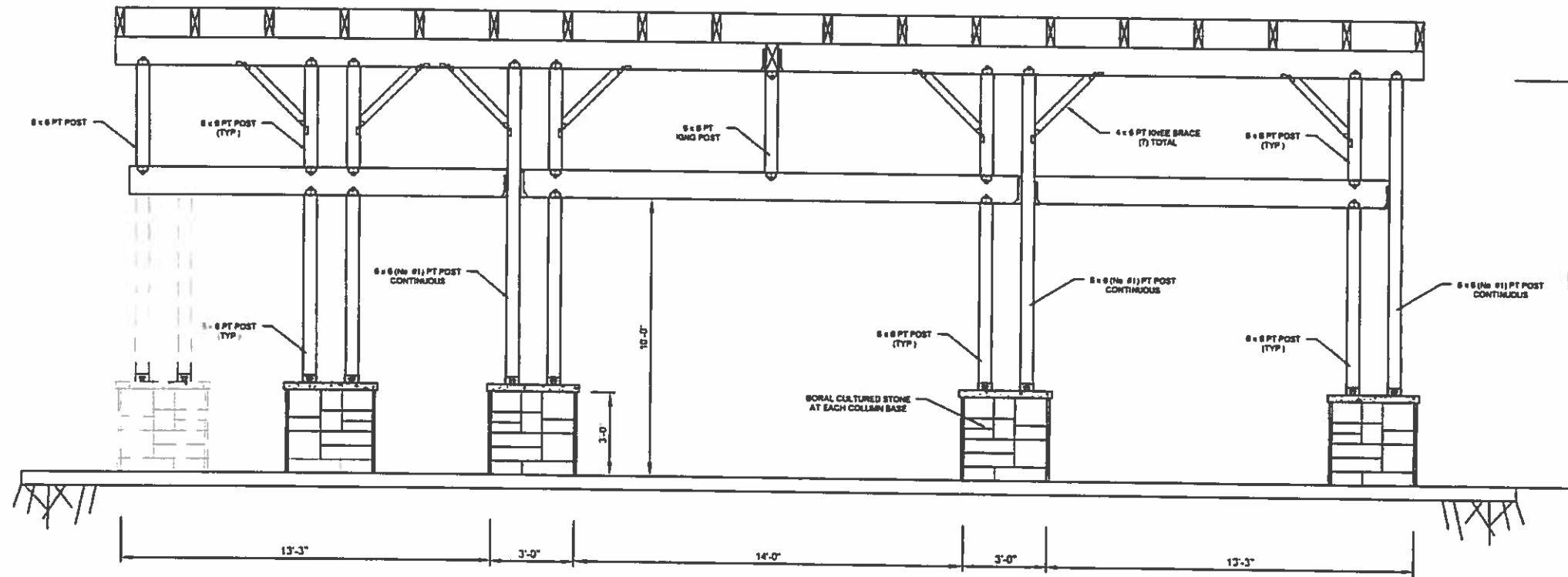
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SHEET TITLE:  
**SOUTHEAST  
ELEVATION**

SHEET NO.  
**A-1.2**



EXPIRES: 6-30-24  
7-13-22

**SOUTHWEST ELEVATION**  
3/16" = 1'-0"

**CONTRACTOR TO FIELD  
VERIFY ALL DIMENSIONS**

SCALES NOTED ON DRAWINGS ARE FOR  
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FOR DIFFERENT SIZE SHEET

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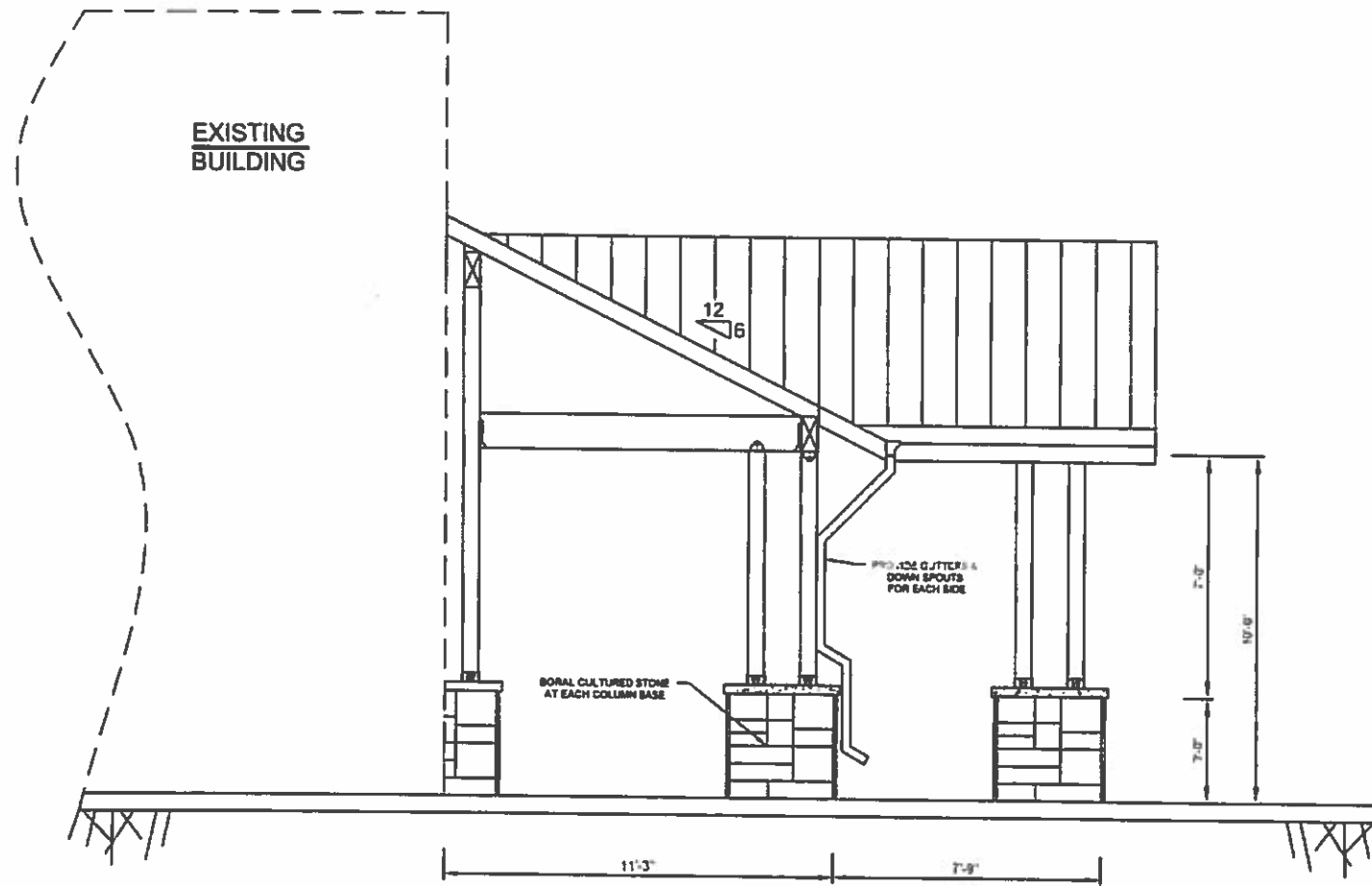


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ISSUE DATE:		4/13/2022

SHEET TITLE:  
**SOUTHWEST  
ELEVATION**

SHEET NO:  
**A-1.3**



**NORTHWEST ELEVATION**  
 $\frac{3}{16}'' = 1'-0''$



EXPIRES: 6-30-2024  
 7-13-22

**CONTRACTOR TO FIELD  
 VERIFY ALL DIMENSIONS**

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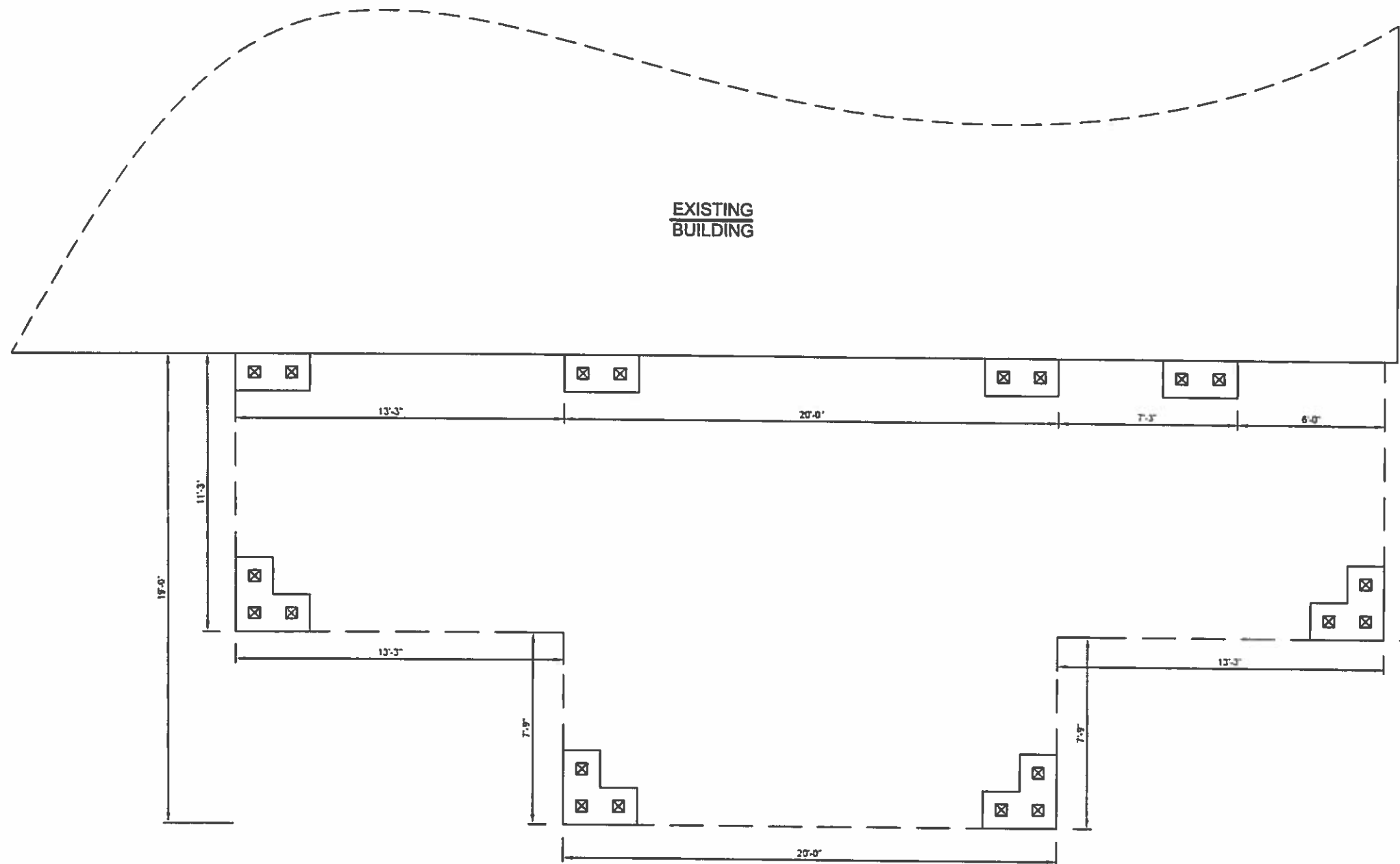


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**SHEET TITLE:**  
**NORTHWEST  
 ELEVATION**

**SHEET NO.:**  
**A-1.4**



EXISTING BUILDING



**SHADE COVER FLOOR PLAN**  
 $\frac{3}{16}'' = 1'-0''$

**CONTRACTOR TO FIELD  
 VERIFY ALL DIMENSIONS**

SCALES NOTED ON DRAWINGS ARE FOR  
 11"x17" SHEET. SCALE ACCORDINGLY  
 FOR DIFFERENT SIZE SHEET.

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ISSUE DATE:	4/13/2022

SHEET TITLE: <b>FLOOR PLAN</b>	
SHEET NO.:	
<b>A-2.1</b>	

# STRUCTURAL NOTES

## GENERAL STRUCTURAL NOTES

- THESE NOTES ARE GENERAL IN NATURE AND ARE INTENDED TO SET MINIMUM STANDARDS FOR CONSTRUCTION.
- ALL WORK SHALL BE IN STRICT CONFORMANCE WITH THE 2018 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE STATE OF OREGON (2019 OSSC). ALL BUILDING ELEMENTS AND COMPONENTS AND COMPONENTS NOT SPECIFICALLY DETAILED IN THESE STRUCTURAL CONSTRUCTION DOCUMENTS SHALL BE FABRICATED AND CONSTRUCTED IN ACCORDANCE WITH THE MINIMUM STANDARDS CONTAINED IN SECTION 2308 - CONVENTIONAL LIGHT FRAME CONSTRUCTION OF THE IBC AS AMENDED BY THE STATE OF OREGON.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE CONSTRUCTION. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
- THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. METHODS, PROCEDURES, AND SEQUENCE OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
- CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LIVE LOAD FOR THE STRUCTURE. PROVIDE SHORING AND/OR BRACING WHERE LOADS EXCEED DESIGN CAPACITY AND WHERE STRUCTURES HAVE NOT ATTAINED DESIGN STRENGTH.

## DESIGN LOADS

<b>FLOOR LOADS:</b>	
DL .....	15 PSF
LL .....	40 PSF
<b>ROOF LOADS:</b>	
ROOF DL .....	15 PSF
ROOF LL .....	25 PSF
<b>SNOW LOADS:</b>	
GROUND SNOW LOAD .....	25 PSF
FLAT ROOF SNOW LOAD .....	25 PSF, USE 25PSF MIN
<b>SNOW EXPOSURE FACTOR, <math>C_e</math> .....</b>	
SNOW LOAD IMPORTANCE FACTOR, $I_s$ .....	1.0, CATEGORY II
THERMAL FACTOR, $C_t$ .....	1.2
<b>WIND DESIGN CRITERIA:</b>	
BASIC WIND SPEED (ULTIMATE WIND SPEED) .....	100 MPH
WIND IMPORTANCE FACTOR, $I_w$ .....	1.0, CATEGORY II
WIND EXPOSURE FACTOR .....	EXPOSURE B
<b>EARTHQUAKE DESIGN CRITERIA:</b>	
SEISMIC IMPORTANCE FACTOR, $I_e$ .....	1.0, CATEGORY II
SEISMIC USE GROUP .....	GROUP I
SPECTRAL ACCELERATION, $S_s$ .....	0.720g
SPECTRAL ACCELERATION, $S_1$ .....	0.320g
SITE CLASS .....	SITE CLASS D
SEISMIC DESIGN CATEGORY, SDC .....	CATEGORY D
RESPONSE MODIFICATION FACTOR, $R$ .....	1.5
SEISMIC RESPONSE COEFFICIENT, $C_s$ .....	0.392
DESIGN BASE SHEAR, $V$ .....	SEE CALC.



EXPIRES: 6-30-2021  
7-13-22

## SPECIAL INSPECTIONS

AN INDEPENDENT TESTING LABORATORY CHOSEN BY THE OWNER SHALL PROVIDE SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE FOR THE FOLLOWING AREAS OF WORK.

- CONCRETE:  
CYLINDER TESTS, SLUMP TESTS, AIR CONTENT DURING PLACEMENT OF REINFORCING STEEL & ANCHOR BOLTS DURING PLACEMENT OF CAST-IN-PLACE CONCRETE (CIP)  
(CONCRETE SPECIAL INSPECTION IS NOT REQUIRED FOR CONCRETE STRENGTHS LESS THAN 2500 PSI WHEN AN APPROVED MIX DESIGN IS SUBMITTED FOR REVIEW BY THE ENGINEER)
- ALL EPOXY ANCHORAGE (BOLTS AND REINFORCING)

THE FOLLOWING COMPANIES HAVE BEEN PRE-APPROVED FOR SPECIAL INSPECTION, ALTERNATIVES SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO USE:

CARLESON TESTING, INC 8430 SW HUNZIKER ROAD TIGARD, OREGON 97281 (503) 684-3460	MAYS TESTING ENGINEERS, INC. 7911 NE 33RD DRIVE, SUITE 150 PORTLAND, OREGON 97211 (503) 281-7579
PROFESSIONAL SERVICES IND. (PSI) 6302 N. CUTTER CIRCLE, SUITE 480 PORTLAND, OREGON 97217 (503) 289-1778	CLAIR COMPANY 525 NW 2ND STREET CORVALLIS, OREGON 97330 (541) 758-1302

## FOUNDATIONS

- REFER TO THE GEOTECHNICAL REPORT PREPARED BY \_\_\_\_\_ DATED \_\_\_\_\_ FOR SUBSURFACE CONDITIONS AND FOUNDATION RECOMMENDATIONS.
- FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 1,500 PSF.
- EARTH RETAINING WALLS HAVE BEEN DESIGNED FOR A LATERAL PRESSURE OF 35 PCF (ACTIVE).
- SLIDING RESISTANCE HAS BEEN DESIGNED USING AN ALLOWABLE PASSIVE EARTH PRESSURE OF 250 PCF AND A COEFFICIENT OF FRICTION  $\mu$  0.30.
- GRANULAR FILL: 3/4" OR 1 1/2" MINUS CRUSHED AGGREGATE BASE AS INDICATED OF UNIFORM GRADATION FROM COARSE TO FINE IN ACCORDANCE WITH SECTION 02630 OF THE STATE OF OREGON, DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION". GRANULAR FILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8" LOOSE MEASURE AND COMPACTED TO NOT LESS THAN 95% RELATIVE COMPACTION AT OPTIMUM MOISTURE CONTENT +/- 2% AS DETERMINED BY ASTM D1557.
- FOOTINGS SHALL BE CARRIED INTO FIRM, NATURAL, UNDISTURBED, STABLE, NATIVE SOIL THAT IS FREE OF ORGANIC AND OTHER OBJECTIONABLE MATERIALS OR SHALL BE PLACED ON COMPACTED GRANULAR FILL.
- NO BACKFILL SHALL BE PLACED BEHIND CANTILEVERED WALLS UNTIL THE CONCRETE HAS ATTAINED 100% OF ITS SPECIFIED COMPRESSIVE STRENGTH.
- COMPACTION TESTING SHALL BE IN ACCORDANCE WITH ASTM D2922.

## STRUCTURAL STEEL (Not Used)

- STRUCTURAL STEEL SHALL CONFORM TO ASTM A53, GRADE B FOR PIPE SECTIONS, ASTM A500, GRADE B FOR TUBE SECTIONS AND ASTM A572, GRADE 50 FOR OTHER STRUCTURAL SHAPES. EXCEPT AS NOTED ALL STRUCTURAL STEEL IS TO BE PAINTED AFTER FABRICATION. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION, CURRENT EDITION. NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THROUGH STRUCTURAL STEEL MEMBERS. NO CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT PERMISSION OF THE ENGINEER.
- HIGH STRENGTH BOLTING SHALL BE BOLTS CONFORMING TO ASTM A325 HIGH STRENGTH STEEL UNLESS OTHERWISE SHOWN. ALL JOINT CONTACT SURFACES SHALL BE CLEAN AND FREE FROM OIL DIRT AND PAINT. USE TURN-OFF-THE-NUT METHOD OR LOAD INDICATION WASHERS.
- STRUCTURAL STEEL WELDING SHALL BE DONE BY AWS CERTIFIED WELDERS AND SHALL CONFORM TO AWS D1.1 LATEST EDITION. ALL BUT WELDS ARE COMPLETE PENETRATION UNLESS NOTED OTHERWISE. WELD FILLER METAL SHALL BE AWS A5.1 OF A5.5 E70XX ELECTRODES.
- SPECIAL INSPECTIONS (OWNER FURNISHED) IS REQUIRED IN ACCORDANCE WITH THE IBC ON THE FOLLOWING PORTIONS OF THE WORK.
  - ALL STRUCTURAL STEEL WELDING NOT PERFORMED IN AN APPROVED SHOP
  - ALL STRUCTURAL FIELD WELDING
  - ALL HIGH STRENGTH BOLTING
  - EPOXY AND EXPANSION ANCHORS INSTALLED IN CONCRETE

### SHOP DRAWING SUBMITTALS

- STRUCTURAL STEEL
- MATERIAL CERTIFICATIONS FOR STRUCTURAL STEEL, WELDING RODS AND BOLTS
- MASONRY AND CONCRETE REINFORCEMENT
- MATERIAL CERTIFICATIONS FOR MASONRY BLOCKS, GROUTING AND STEEL REINFORCEMENT
- MANUFACTURED WOOD TRUSSES

## REINFORCED CONCRETE

- CEMENT: ASTM C150 TYPE I OR II.
- AGGREGATE: ASTM C33, 1-1/2" MINUS AT FOOTINGS AND 3/4" MINUS AT WALLS.
- WATER: IN CONFORMANCE WITH ASTM C94.
- WATER REDUCING ADMIXTURE: ASTM C490 TYPE A, OR F MID RANGE TYPE.
- AIR-ENTRAINING ADMIXTURE: ASTM C260.
- STRUCTURAL CONCRETE:  $f'_c = 3,000$  PSI @ 28 DAYS. SLUMP SHALL BE 4" +/- 1". SLUMPS MAY BE INCREASED TO 8" MAXIMUM USING A MID-RANGE WATER REDUCER. AIR ENTRAINMENT SHALL BE 5% +/- 1 1/2% AT EXPOSED EXTERIOR CONCRETE. CONCRETE SHALL CONTAIN A WATER REDUCER. MAXIMUM WATER CEMENT RATIO SHALL BE .58 FOR 3,000 PSI CONCRETE. CONCRETE MATERIALS AND QUALITY SHALL BE IN ACCORDANCE WITH CHAPTERS 3 AND 5 RESPECTIVELY OF ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
- TRANSPORTING OF READY-MIX CONCRETE SHALL BE IN ACCORDANCE WITH ASTM C94 "SPECIFICATION FOR READY-MIXED CONCRETE" AND CONCRETE PLACEMENT, CONSOLIDATION AND CURING SHALL BE IN ACCORDANCE WITH SECTION 5 OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE".
- HOT-WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305 "HOT WEATHER CONCRETING". COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306 ACI 306 "COLD WEATHER CONCRETING" AND ACI 306.1 "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING".
- STRENGTH TESTING OF CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 1.6 OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE". CONCRETE TESTS SHALL BE MADE FOR EACH 100 CU. YDS. OF CONCRETE PLACED.

### REINFORCING STEEL

- REINFORCING STEEL: ASTM A 615 GRADE 60 DEFORMED BARS.
- FABRICATION AND PLACEMENT SHALL BE IN ACCORDANCE WITH CRSI MSP-1 "MANUAL OF STANDARD PRACTICE" AND SECTION 3 OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE".
- REINFORCING STEEL LAP SPLICES NOT OTHERWISE INDICATED SHALL BE ACI STANDARD CLASS B IF SPLICED AT THE SAME LOCATION OR CLASS A IF SPLICES ARE STAGGERED BETWEEN ADJACENT BARS ONE LAP LENGTH MINIMUM.
- UNLESS OTHERWISE INDICATED, MINIMUM CLEARANCE FOR REINFORCING STEEL SHALL BE 3" FOR CONCRETE CAST AGAINST EARTH; FOR CONCRETE EXPOSED TO EARTH OR WEATHER, 1 1/2" FOR #5 AND SMALLER BARS AND 2" FOR #6 AND LARGER BARS. INSTALL WITH PROPER BAR SUPPORTS PRIOR TO CONCRETE PLACEMENT.
- PROVIDE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL REINFORCEMENT.

### FORM WORK

- CONSTRUCTION, SHORING AND BRACING OF FORMWORK SHALL BE IN ACCORDANCE WITH SECTION 2 OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE".
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN, CONSTRUCTION, SEQUENCING AND SAFETY OF ALL FORMWORK AND SHORING.

### CONCRETE ACCESSORIES

- PREMOLDED JOINT FILLER: ASTM D1751 ASPHALT-SATURATED FIBER TYPE.
- SMOOTH DOWELS: ASTM A36 ROUND BARS. PROVIDE WITH SLEEVES AT ONE SIDE OF THE JOINT.

### SUBMITTALS

- THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER PRIOR TO FABRICATION/INSTALLATION ALL SHOP DRAWINGS, PRODUCT DATA, ETC. NECESSARY FOR PERFORMANCE OF THE WORK IN THE SHOP AND AT THE SITE.
  - REINFORCING STEEL SHOP/PLACEMENT DRAWINGS
  - CONCRETE MIX DESIGNS

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SHEET TITLE:  
**STRUCTURAL NOTES**

SHEET NO:

**S-1.0a**

SCALES NOTED ON DRAWINGS ARE FOR 11"x17" SHEET SCALE ACCORDINGLY FOR DIFFERENT SIZE SHEET

DESIGNATES TYPICAL SHEAR PANEL CONSTRUCTION

SHEARWALL SCHEDULE							
MARK	SHEATHING	FASTENERS	● EDGE	● FIELD	ANCHOR BOLTS	SOLE PLATE	NOTES
A	15/32" CDX 280#/FT.	COMMON NAILS	8d @ 6" O.C.	8d @ 12" O.C.	5/8" DIA. @ 48" O.C.	3-16d @ 18" O.C.	w/ 3x3x1/4 PLATE WASHERS @ A.B.
B	15/32" CDX 380#/FT.	COMMON NAILS	8d @ 4" O.C.	8d @ 12" O.C.	5/8" DIA. @ 18" O.C.	3-16d @ 18" O.C.	w/ 3x3x1/4 PLATE WASHERS @ A.B.
C	15/32" CDX 480#/FT.	COMMON NAILS	8d @ 3" O.C.	8d @ 12" O.C.	5/8" DIA. @ 24" O.C.	4-20d @ 18" O.C.	w/ 3x3x1/4 PLATE WASHERS @ A.B. IN 2x SILL PLATE
D	15/32" CDX 640#/FT.	COMMON NAILS	8d @ 2" O.C.	8d @ 12" O.C.	5/8" DIA. @ 18" O.C.	3-20d @ 5" O.C.	w/ 3x3x1/4 PLATE WASHERS @ A.B. IN 2x SILL PLATE

NOTES: USE 5/8" DIA. ANCHOR BOLTS WITH SIMPSON SET 3G ADHESIVE EMBED 7" MIN. AT NOTED SPACING IN EXISTING CONCRETE WALL.

(USE 2x ANCHOR BOLTS FOR SW EACH SIDE)

(USE 2x NAILING REQUIRED FOR SW EACH SIDE)

DESIGNATES TYPICAL HOLDOWN TYPE

HOLDOWN SCHEDULE (SEE NOTE)		
MARK	HOLDOWN	NOTES
1	MST 37	w/ MIN. DOUBLE STUDS 1,725#
2	HOU2 - SDS2.5 SSTB 16 13" EMBED	w/ MIN. DOUBLE STUDS 3,075#
3	MST 48	w/ MIN. 4x POSTS 3,215#
4	HOU4 - SDS2.5 SBK24 18" EMBED	w/ MIN. 4x POSTS 4,565#
5	HOU5 - SDS2.5 SBK24 18" EMBED	w/ MIN. 4x POSTS 5,645#
6	MST 80	w/ MIN. 4x POSTS 4,800#
8	HOU8 - SDS2.5 SSTB 36 29" EMBED	w/ MIN. 6x POSTS 7,870#
11	HOU11 - SDS2.5 SBK30 24" EMBED	w/ MIN. 6x POSTS 9,535#
12	(2) MST172 (ONE EACH SIDE)	w/ MIN. 6x POSTS 10,160# DFR POSTS
14	HOU 14-SDS2.5	w/ MIN. 6x POSTS 14,445#

NOTES: FOR HOU2 & HOU5 USE 5/8" DIA. ANCHOR W/ SIMPSON SET 3G ADHESIVE EMBED 10" MIN. FOR HOU8 & HOU11 USE 7/8" DIA. ANCHOR W/ SIMPSON SET 3G ADHESIVE EMBED 15" MIN.

**PREMANUFACTURED CONNECTION HARDWARE**

- CONNECTION HARDWARE IS BY THE SIMPSON COMPANY OF SAN LEANDRO, CA. ALL STEEL CONNECTORS SHALL BE GALVANIZED OR BY SOME METHOD BE MADE CORROSION RESISTANT, UNLESS OTHERWISE INDICATED.
- PROVIDE BOLTED OR NAILED CONNECTIONS FOR THE MAXIMUM CAPACITY UNLESS OTHERWISE NOTED.
- CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE EITHER POST HOT DIPPED GALVANIZED OR STAINLESS STEEL.

**SHEATHING**

- CONSTRUCTION PANELS SHALL BE IDENTIFIED WITH THE APPROPRIATE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION (APA), AND SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE U.S. PRODUCT STANDARD PS1 OR APA PERFORMANCE STANDARDS PRP-108.
- MINIMUM PANEL THICKNESS SHALL BE 15/32" C-D EXTERIOR GLUE OR AS INDICATED ON THE PLANS. PARTICLE BOARD IS NOT PERMITTED.
- MINIMUM NAILING IS 8d @ 6" AT PANEL EDGES AND 8d @ 12" IN THE FIELD. ALL NAILS ARE GALVANIZED COMMON OR BOX NAILS. BLOCKING IS REQUIRED AT PANEL EDGES WHERE NOTED ON THE PLANS.

**MANUFACTURED ROOF TRUSSES**

- MANUFACTURED ROOF TRUSSES SHALL BE AT 24" CENTERS AND SHALL HAVE A MINIMUM OF 2X4 TOP CHORDS AND BOTTOM CHORDS FOR WOOD TRUSSES.
- TRUSSES SHALL BE DESIGNED FOR SPECIFIED ROOF LOADS. STRUCTURAL CALCULATIONS SHALL BE SEALED BY AN OREGON LICENSED PROFESSIONAL ENGINEER AND SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL THEN THE BUILDING DEPARTMENT PRIOR TO FABRICATION AND INSTALLATION.
- MANUFACTURER SHALL PROVIDE BRACING, BLOCKING, HANGERS, HOLDOWNS AND ALL ACCESSORIES REQUIRED FOR PROPER INSTALLATION.
- SHOP DRAWINGS SHALL PROVIDE PLACING AND ERECTION DIRECTION TO THE INSTALLER. CALCULATIONS AND SHOP DRAWINGS SHALL INCLUDE COMMON IDENTIFYING MARKS TO FACILITATE SHOP DRAWING REVIEW.

**STRUCTURAL PANEL NOTES**

- THE LOCATION OF REQUIRED STRUCTURAL PANELS HAVE BEEN NOTED FOR CLARITY.
- ALL EXTERIOR WALLS SHALL BE OF TYPE A CONSTRUCTION EXCEPT AS NOTED OTHERWISE.
- SWA SHALL HAVE 2-INCH NOMINAL FRAMING AND SWB, SWC & SWD SHALL BE BACKED WITH 3-INCH NOMINAL OR WIDER FRAMING AT ALL PANEL EDGES. PANELS MAY BE INSTALLED EITHER HORIZONTALLY OR VERTICALLY, UNLESS OTHERWISE NOTED. PANELS SHALL BE INSTALLED ON STUDS SPACED A MAXIMUM 16" ON CENTER.
- HOLDOWNS OCCUR AT ENDS OF STRUCTURAL PANELS AND SHALL FASTEN TO A MIN. OF (2) STUDS UNLESS OTHERWISE NOTED. CONNECTION HARDWARE IS BY THE SIMPSON COMPANY OF SAN LEANDRO, CA. ALL STEEL CONNECTORS SHALL BE GALVANIZED OR BY SOME METHOD MADE CORROSION RESISTANT, UNLESS OTHERWISE INDICATED. PROVIDE BOLTED OR NAILED CONNECTIONS FOR THE MAXIMUM CAPACITY UNLESS NOTED OTHERWISE. CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE EITHER POST HOT-DIP GALVANIZED OR STAINLESS STEEL.
- WOOD STRUCTURAL PANELS SHALL BE 15/32" C-D INTERIOR-TYPE BONDED WITH EXTERIOR GLUE (CDX) CONFORMING TO APA REQUIREMENTS FOR WALL SHEATHING OR AS INDICATED IN THESE PLANS. PARTICLEBOARD AND OSB ARE NOT PERMITTED. MINIMUM NAILING IS 8d @ 6" O.C. AT PANEL EDGES AND 8d @ 12" O.C. IN THE FIELD. ALL NAILS ARE COMMON OR GALVANIZED BOX NAILS. BLOCKING IS REQUIRED AT PANEL JOINTS UNLESS OTHERWISE NOTED.
- CONNECT RIM JOIST / BLOCKING TO WALL TOP PLATE AS FOLLOWS: SWA SIMPSON A35 @ 16" O.C.; SWB SIMPSON A35 @ 12" O.C.; SWC (2) SIMPSON A 35 @ 16" O.C.; SWD (2) SIMPSON A 35 @ 12" O.C.
- SPECIAL INSPECTION (OWNER FURNISHED) IS REQUIRED IN ACCORDANCE WITH THE IBC ON THE FOLLOWING PORTIONS OF WORK.  
-ALL SHEAR WALLS AND FLOOR DIAPHRAGMS WITH EDGE NAILING LESS THAN 4" OC.

**MANUFACTURED WOOD BEAMS & JOISTS**

- ROOF AND FLOOR FRAMING DESIGNATED T.J, L.V, T.H, P.SL AND MICROLAM SHALL BE MANUFACTURED BY THE TRUSS JOIST CORPORATION.
- ALTERNATE MANUFACTURER MUST BE APPROVED BY THE ENGINEER. PROVIDE SHOP DRAWINGS AND ENGINEERING BEARING THE STAMP OF A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF OREGON.
- MANUFACTURER SHALL SUPPLY JOISTS, BRIDGING, HANGERS, BLOCKING, NOTCHED PLATES AND ALL OTHER ACCESSORIES NECESSARY FOR THE PROPER ERECTION AND PERFORMANCE OF THE PRODUCT.
- THE PRODUCT SHALL BE ERECTED AND BRIDGED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS. THE MANUFACTURER SHALL INSPECT INSTALLED ITEMS FOR PROPER INSTALLATION.
- MICROLAM BEAMS, MINIMUM DESIGN VALUES  
Fb = 2,600 PSI; Fv = 285 PSI; Fc<sup>⊥</sup> = 750 PSI; E = 2,000 KSI
- PARALLAM BEAMS, MINIMUM DESIGN VALUES  
Fb = 2,900 PSI; Fv = 290 PSI; Fc<sup>⊥</sup> = 750 PSI; E = 2,200 KSI

**GLUED LAMINATED BEAMS (GLB)**

- GLULAM BEAMS ARE TO BE MANUFACTURED, TRANSPORTED, AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AITC.
- SPECIFY ARCHITECTURAL GRADE FINISH AND EXTERIOR ADHESIVE UNLESS NOTED OTHERWISE. USE 24F-V4 FOR SIMPLE SPANS AND 24F-V8 FOR CONTINUOUS SPANS AND CANTILEVER CONDITIONS.
- MINIMUM DESIGN VALUES:  
24F-V4: Fb = 2,400 PSI; Fv = 265 PSI; Fc = 1650 PSI; E = 1,700 KSI  
24F-V8: Fb = 2,400 PSI; Fv = 265 PSI; Fc = 1650 PSI; E = 1,700 KSI

**SOLID SAWN LUMBER**

- STRUCTURAL LUMBER SHALL BE DOUGLAS FIR CONFORMING TO WPA GRADING RULES.
- MINIMUM GRADES ARE, EXCEPT AS NOTED OTHERWISE:  
STRUCTURAL JOISTS AND PLANKS - #2  
BEAMS AND STRINGERS - #1  
POSTS AND TIMBERS - #1  
STUDS - #2
- DOUBLE JOISTS BELOW ALL PARALLEL WALLS AND/OR PARTITIONS.
- NOTCHING IS NOT PERMITTED IN JOISTS, RAFTERS, BEAMS, UNTELS, COLUMNS, TRUSSES AND BRACING MEMBERS.
- PRESSURE TREATED LUMBER SHALL CONFORM TO THE AWP. ALL LUMBER IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED WITH ACZA TO A MINIMUM RETENTION OF 0.25 POUNDS PER CUBIC FOOT BY ASSAY.
- NAILING SHALL BE WITH COMMON NAILS IN CONFORMANCE WITH TABLE 2304.9., 2018 IBC UNLESS NOTED OTHERWISE.
- PROVIDE STANDARD 3"x 3" X 0.229" STEEL PLATE WASHERS UNDER ALL INTERMEDIATE ANCHOR BOLT HEADS AND NUTS AT THE SILL PLATE. USE STANDARD WASHERS FOR ALL OTHER BOLT HEADS AND NUTS IN CONTACT WITH WOOD.



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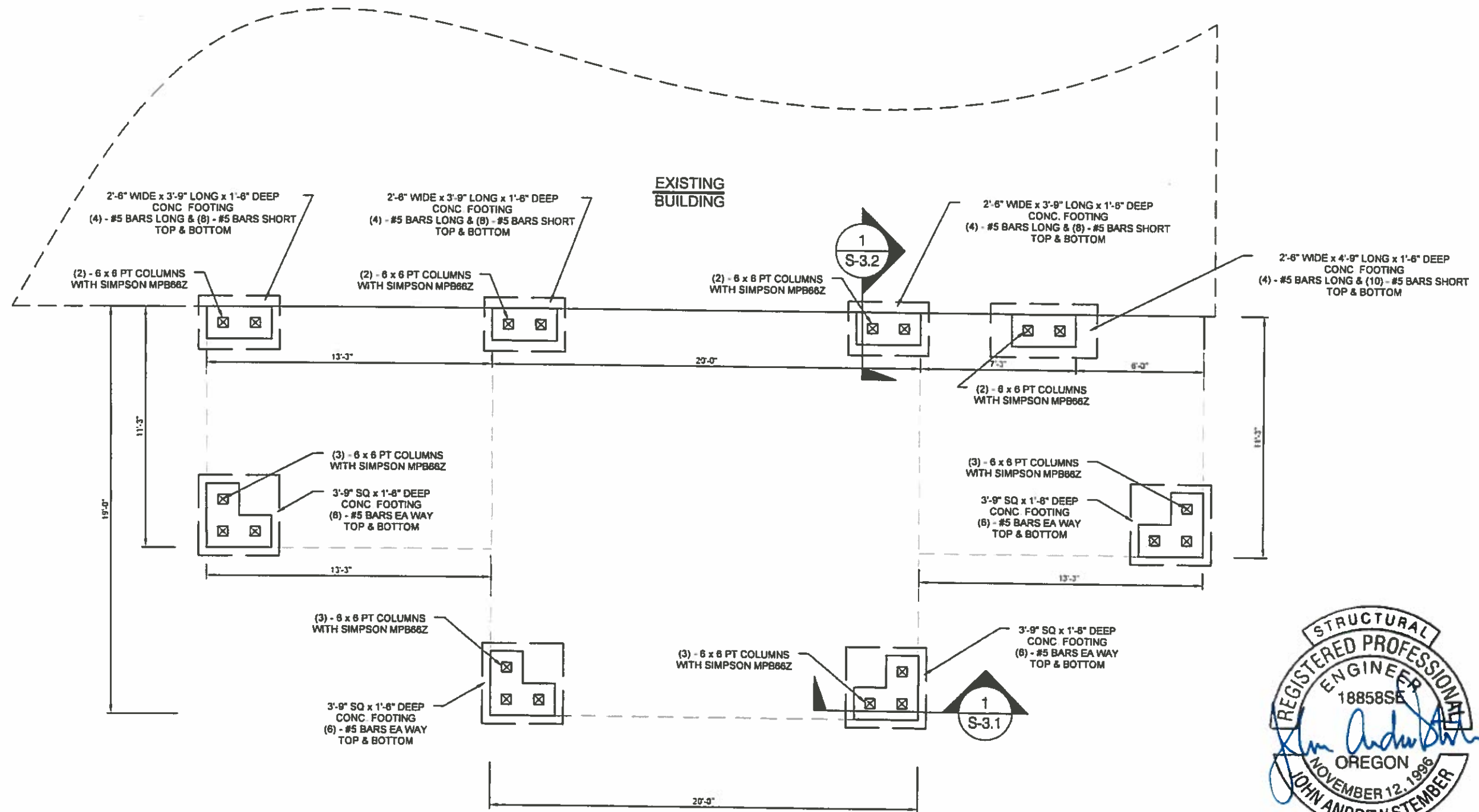
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SHEET TITLE:  
**STRUCTURAL NOTES**

SHEET NO:  
**S-1.0b**

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EXISTING BUILDING



EXPIRES: 6-30-2022  
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**FOUNDATION PLAN**  
3/16" = 1'-0"

**CONTRACTOR TO FIELD  
VERIFY ALL DIMENSIONS**

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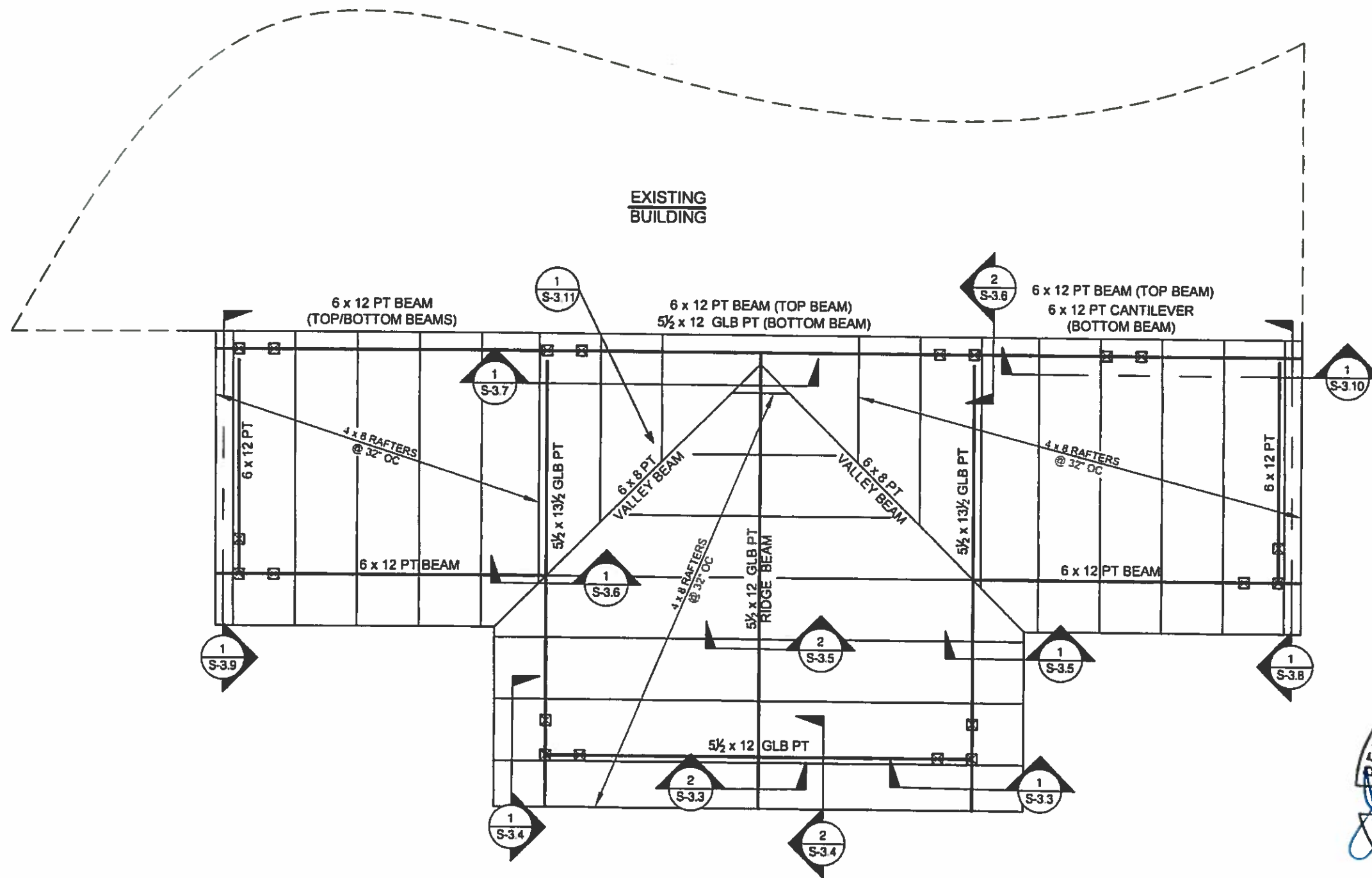
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SHEET TITLE:  
**FOUNDATION PLAN**

SHEET NO.:  
**S-2.1**





EXPIRES: 6-30-2024

7-13-22

**ROOF FRAMING PLAN**

3/16" = 1'-0"

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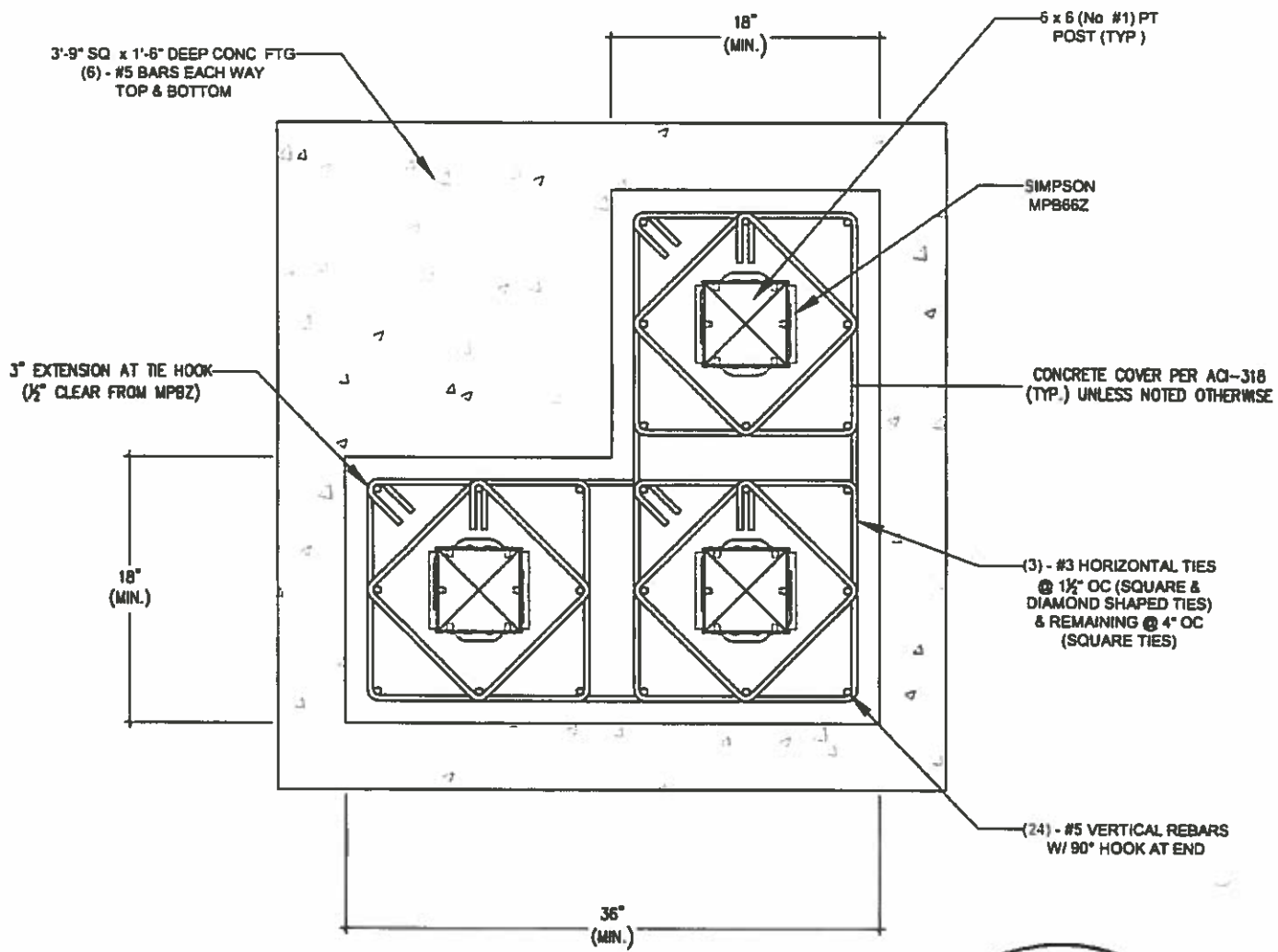
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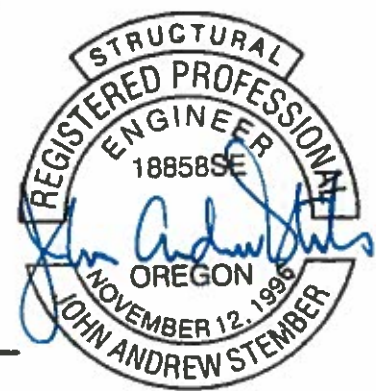
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SHEET NO: <b>S-2.2</b>

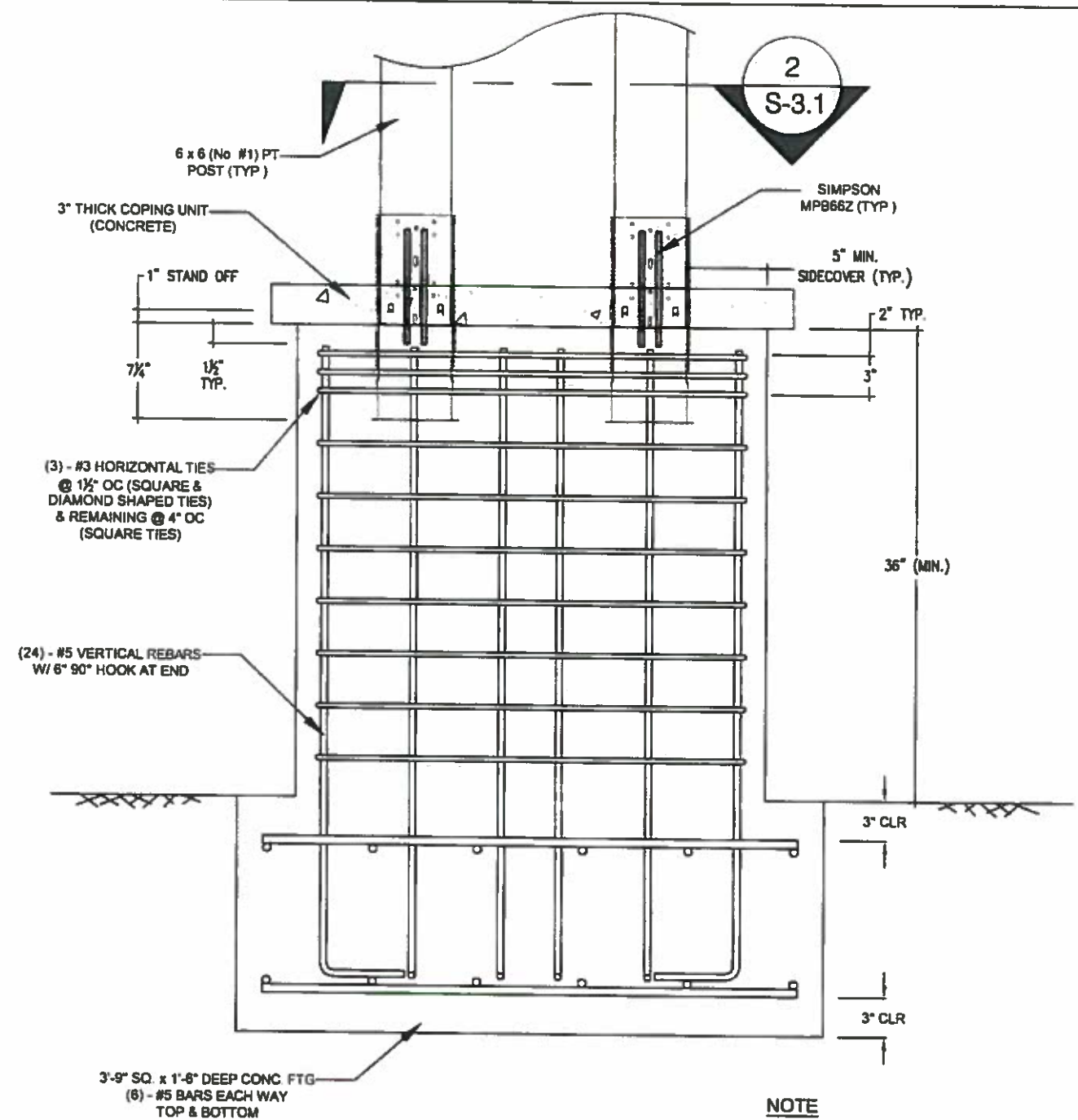


**NOTE**  
PROVIDE END TREATMENT FOR ALL CUT ENDS

**2**  
**S-3.1** PEDESTAL SECTION CUT  
1" = 1'0"



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**NOTE**  
PROVIDE END TREATMENT FOR ALL CUT ENDS

**1**  
**S-3.1** POSTS TO MOMENT BASE FOOTING  
1" = 1'0"

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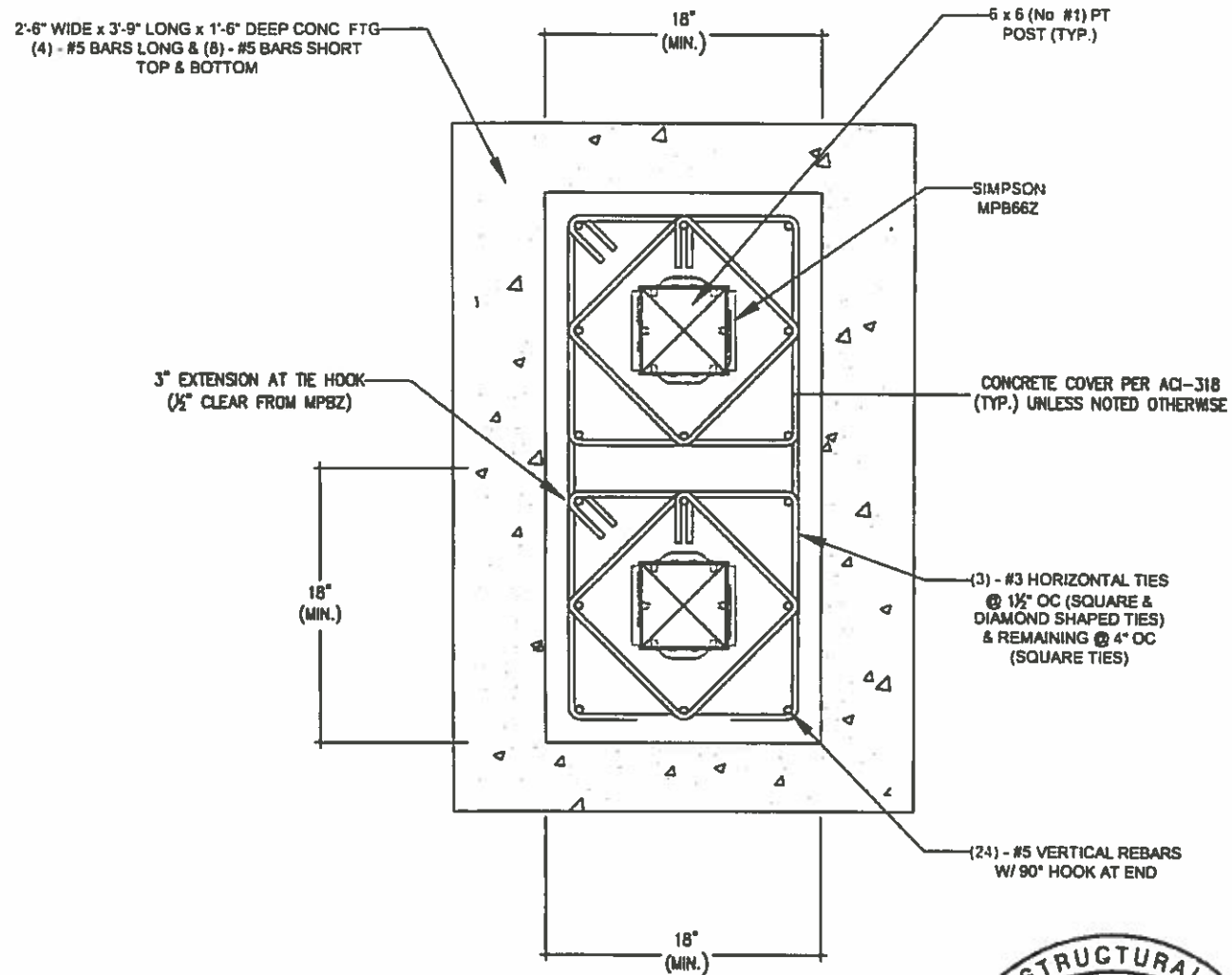
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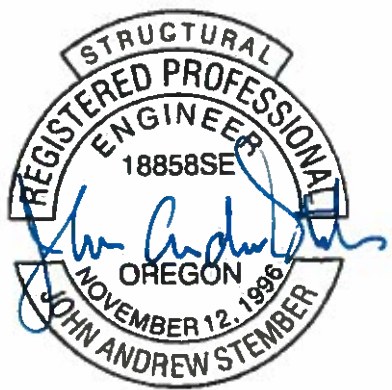
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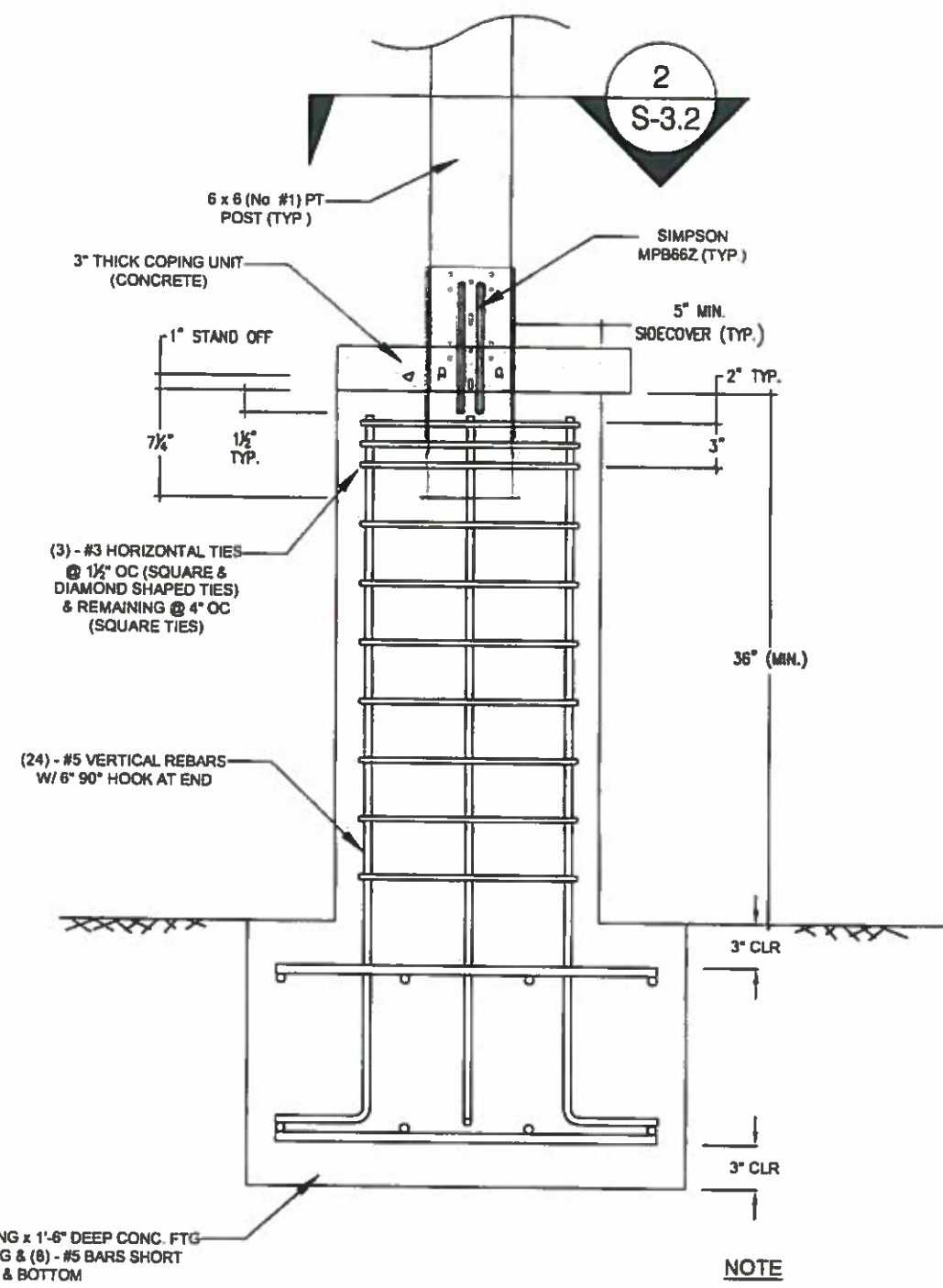


**NOTE**  
PROVIDE END TREATMENT FOR ALL CUT ENDS

**2**  
**S-3.2** PEDESTAL SECTION CUT  
1" = 1'0"



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**NOTE**  
PROVIDE END TREATMENT FOR ALL CUT ENDS

**1**  
**S-3.2** POSTS TO MOMENT BASE FOOTING  
1" = 1'0"

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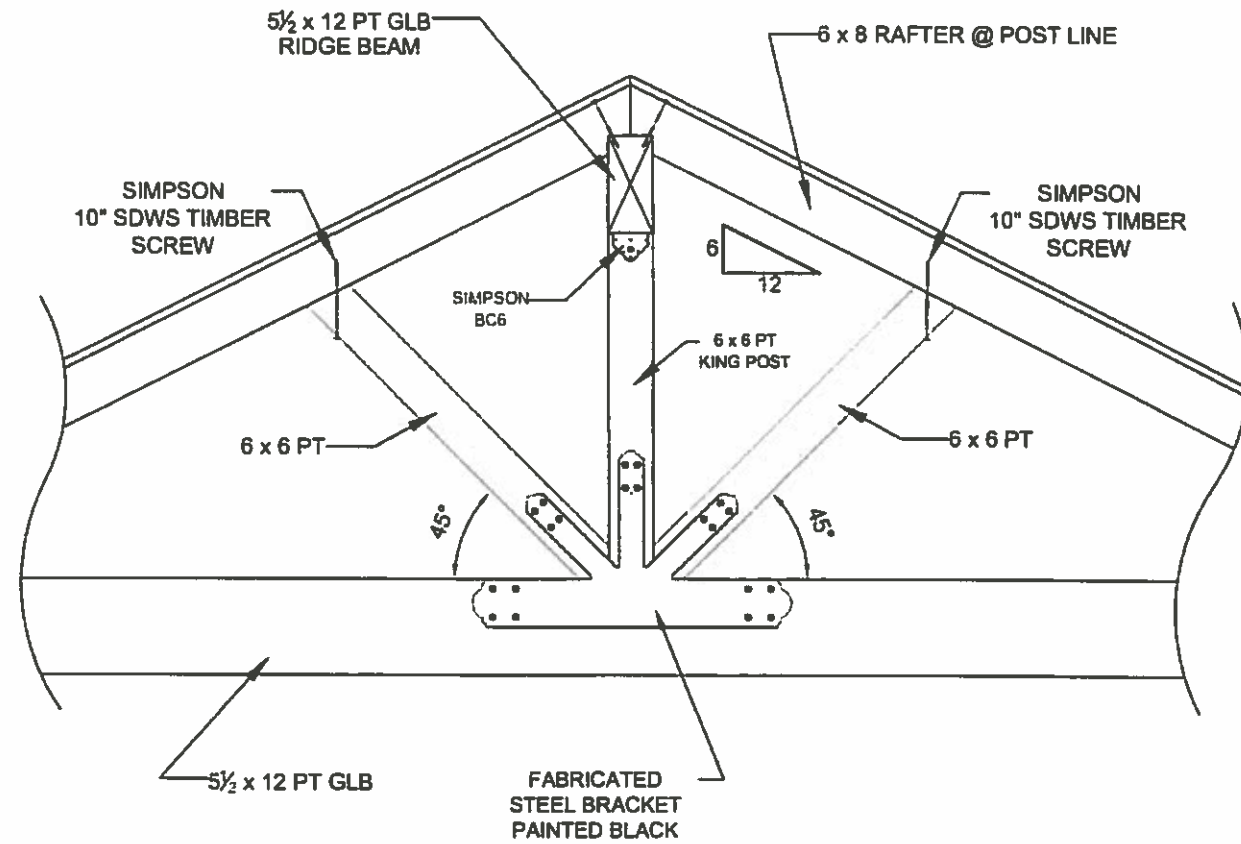


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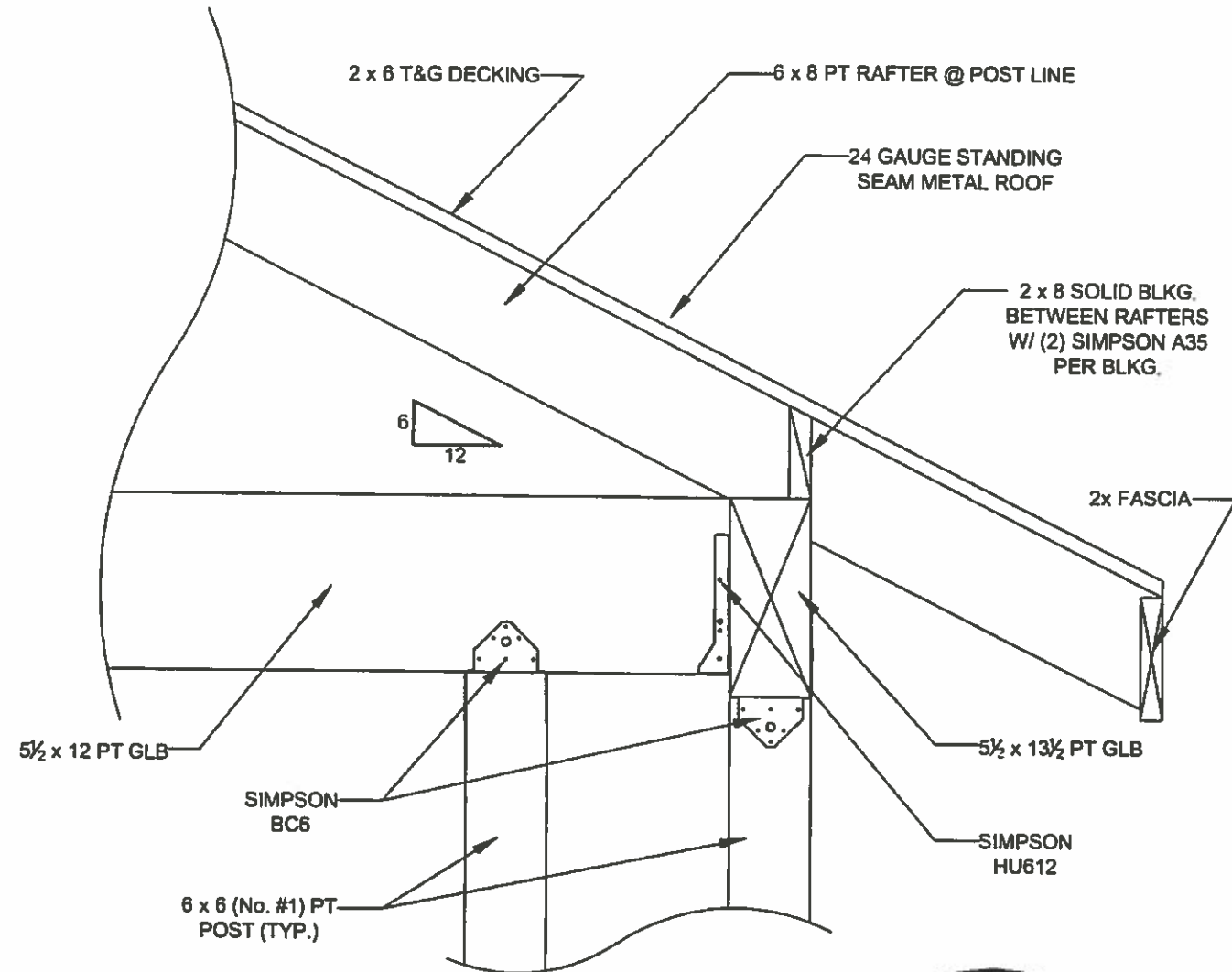
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**FOUNDATION  
DETAIL**

SHEET NO:  
**S-3.2**



**NOTE**  
PROVIDE END TREATMENT  
FOR ALL CUT ENDS

**2**  
**S-3.3** RIDGE BEAM POST TO LOWER BEAM  
1/2" = 1'0"



**NOTE**  
PROVIDE END TREATMENT  
FOR ALL CUT ENDS

**1**  
**S-3.3** BEAM TO POSTS  
1" = 1'0"



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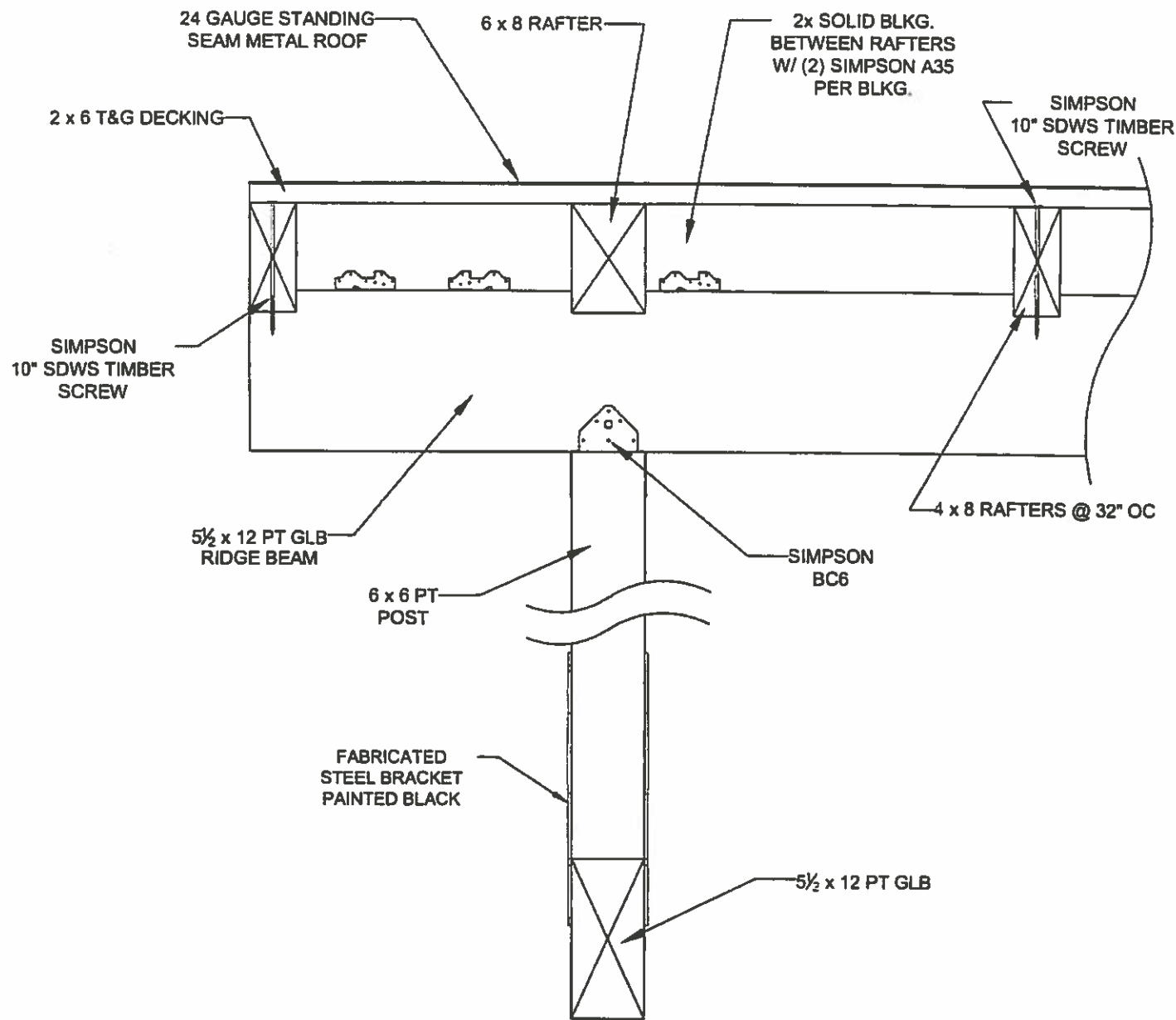


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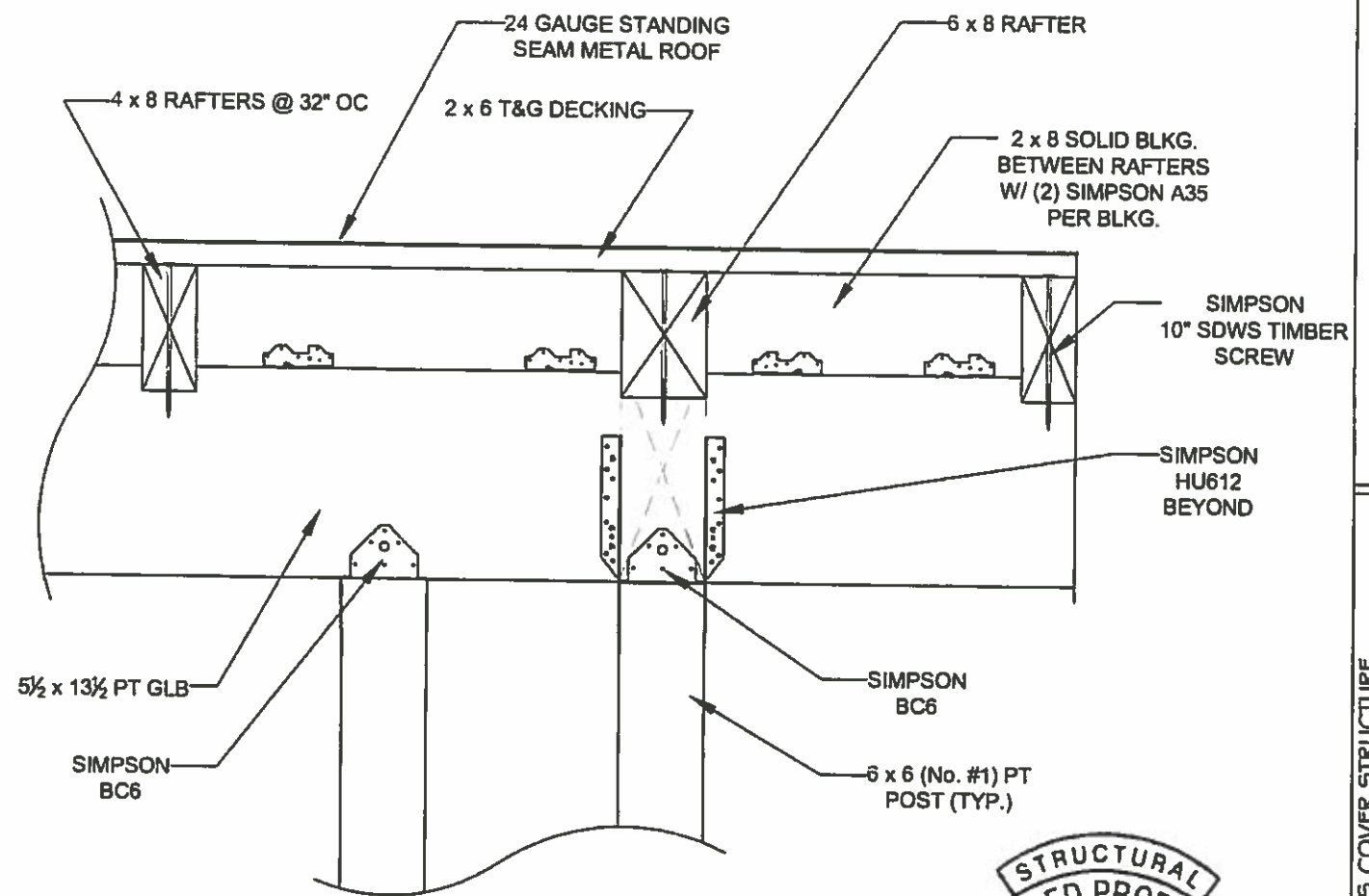
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**ROOF  
DETAIL**

SHEET NO.:  
**S-3.3**



NOTE  
PROVIDE END TREATMENT  
FOR ALL CUT ENDS

**2**  
S-3.4 RIDGE BEAM TO POST & POST TO LOWER BEAM  
1" = 1'0"



NOTE  
PROVIDE END TREATMENT  
FOR ALL CUT ENDS

**1**  
S-3.4 CANTILEVER BEAM TO POSTS  
1" = 1'0"



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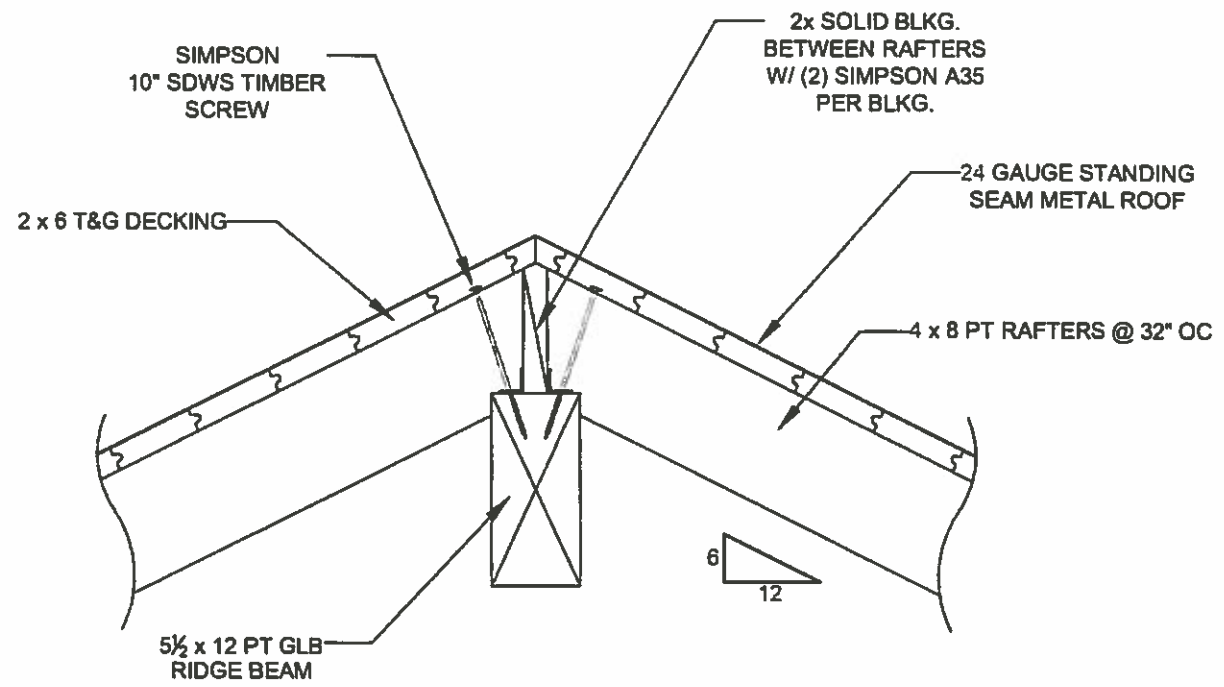
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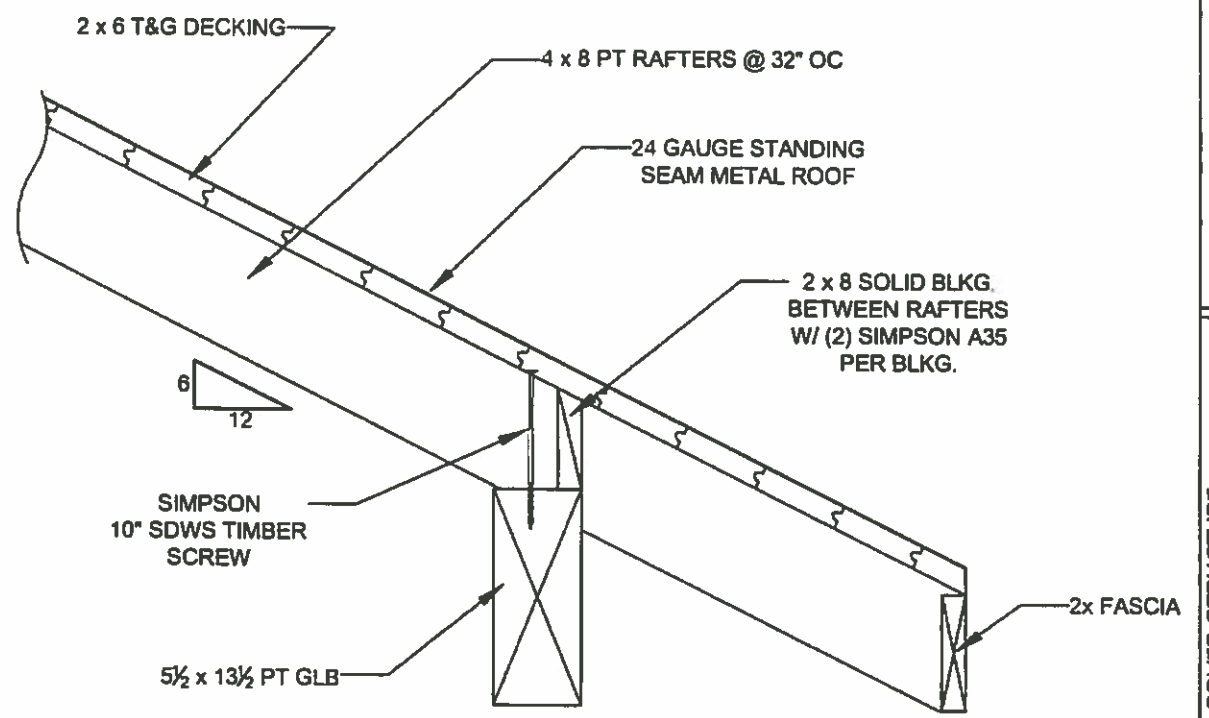
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**S-3.4**

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**NOTE**  
 PROVIDE END TREATMENT  
 FOR ALL CUT ENDS

**2**  
 RAFTERS TO RIDGE BEAM  
 S-3.5 1" = 1'0"



**NOTE**  
 PROVIDE END TREATMENT  
 FOR ALL CUT ENDS

**1**  
 RAFTERS TO BEAM  
 S-3.5 1" = 1'0"



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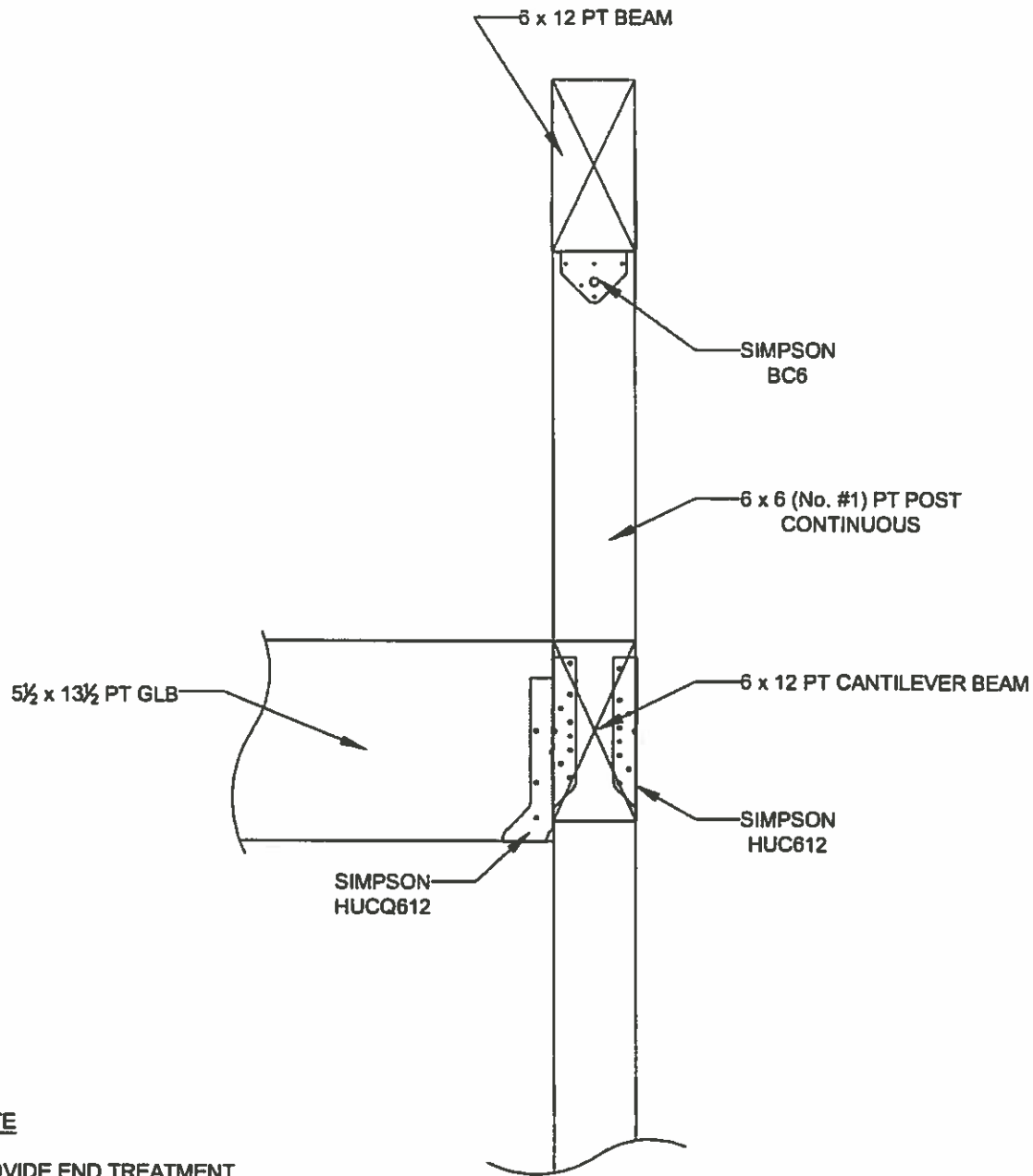
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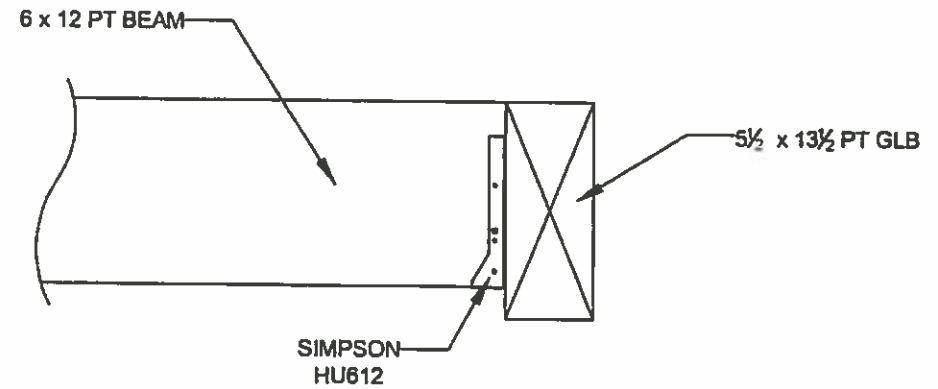
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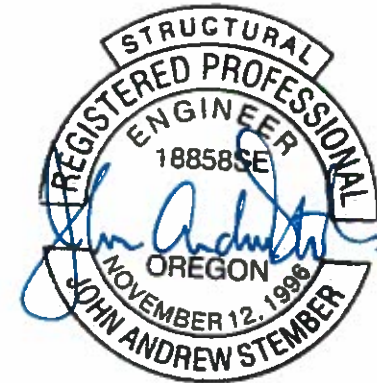
**NOTE**  
PROVIDE END TREATMENT  
FOR ALL CUT ENDS

**2**  
**S-3.6** GLB & BEAM TO CONTINUOUS POST  
1" = 1'0"



**NOTE**  
PROVIDE END TREATMENT  
FOR ALL CUT ENDS

**1**  
**S-3.6** BEAM TO GLB  
1" = 1'0"



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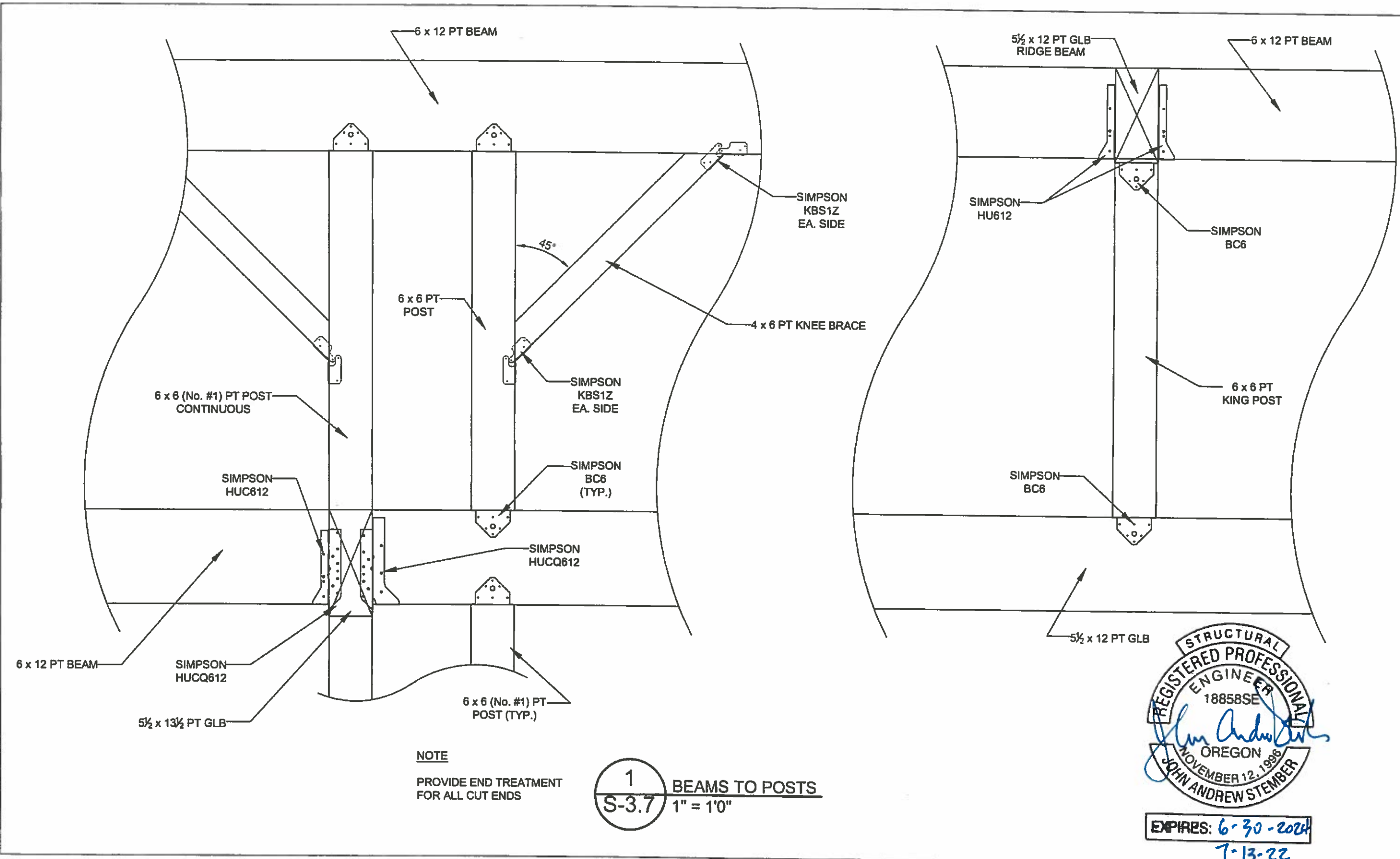
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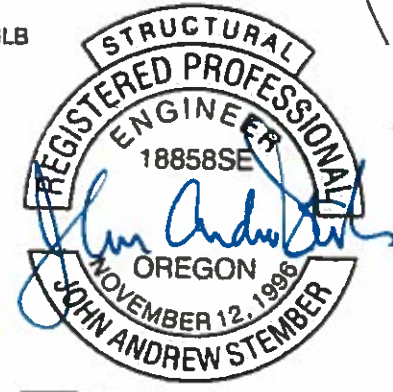
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NOTE  
 PROVIDE END TREATMENT  
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1  
 S-3.7 BEAMS TO POSTS  
 1" = 10"



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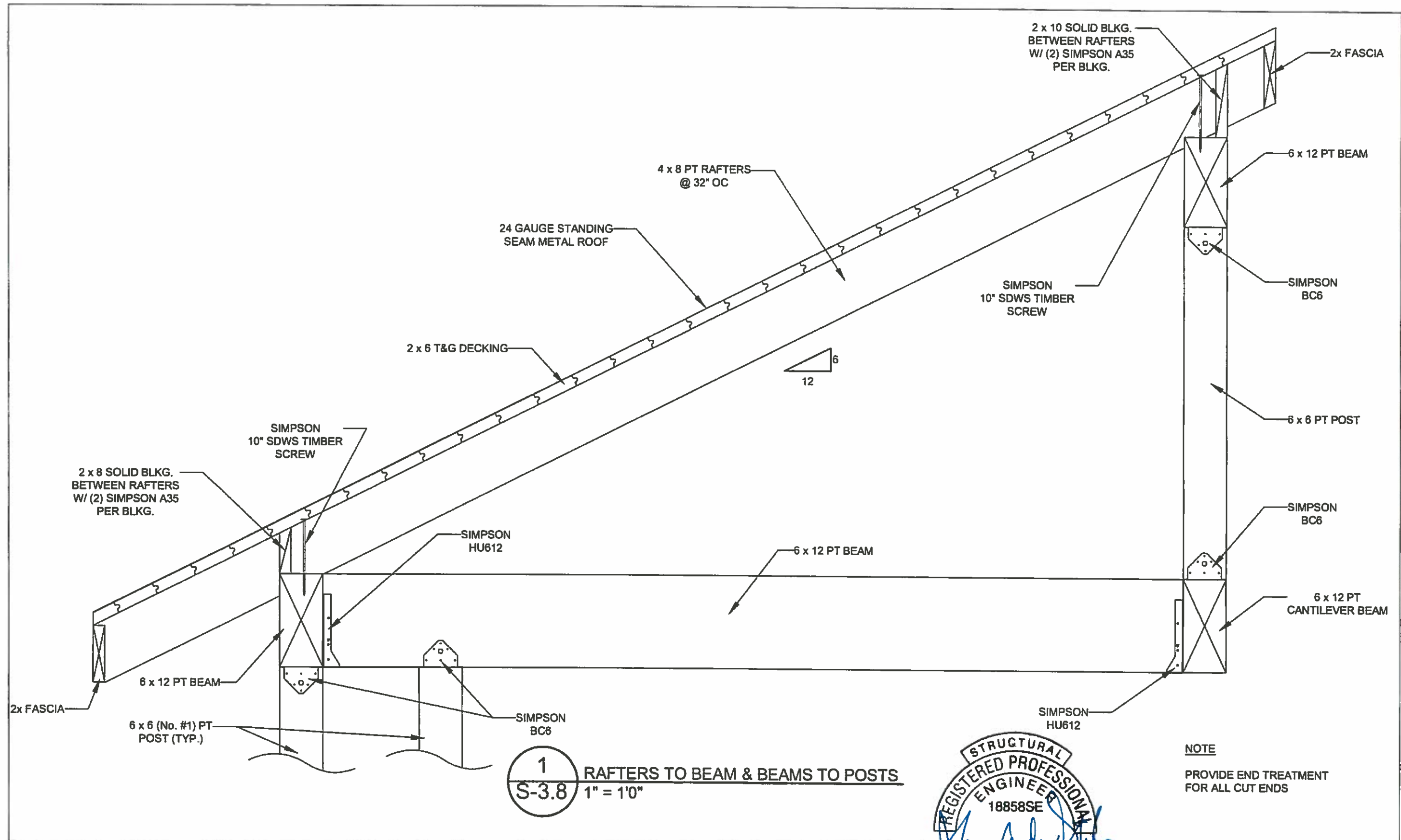
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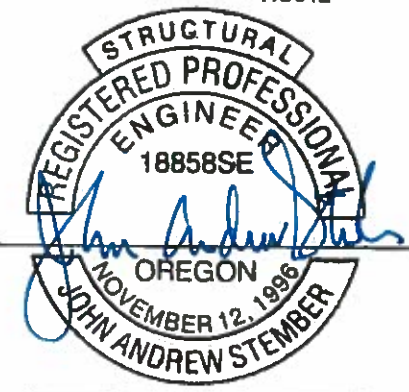


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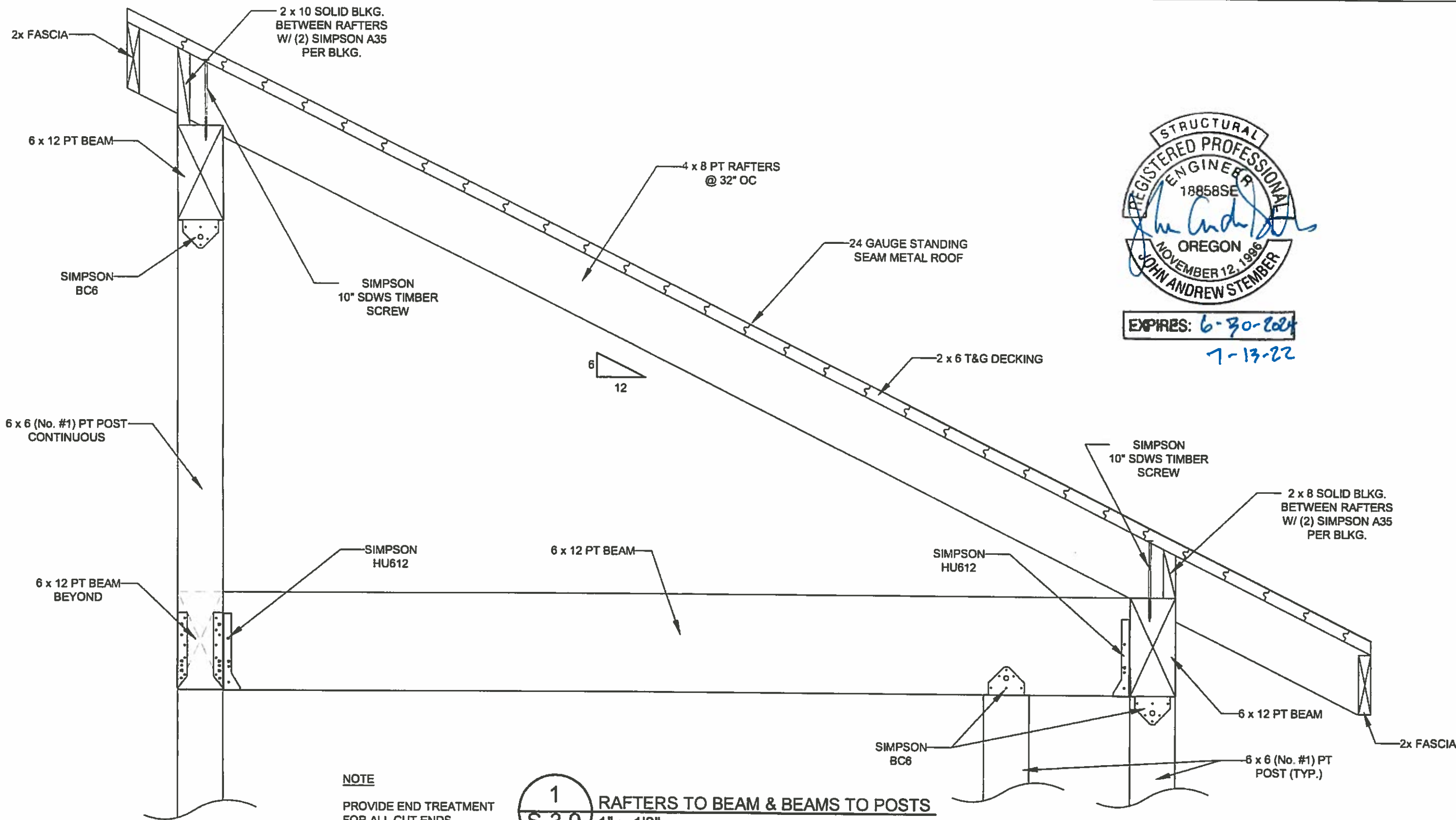
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DETAIL**

SHEET NO:  
**S-3.8**



EXPIRES: 6-30-2024

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**NOTE**  
PROVIDE END TREATMENT FOR ALL CUT ENDS

**1**  
**S-3.9** RAFTERS TO BEAM & BEAMS TO POSTS  
1" = 1'0"



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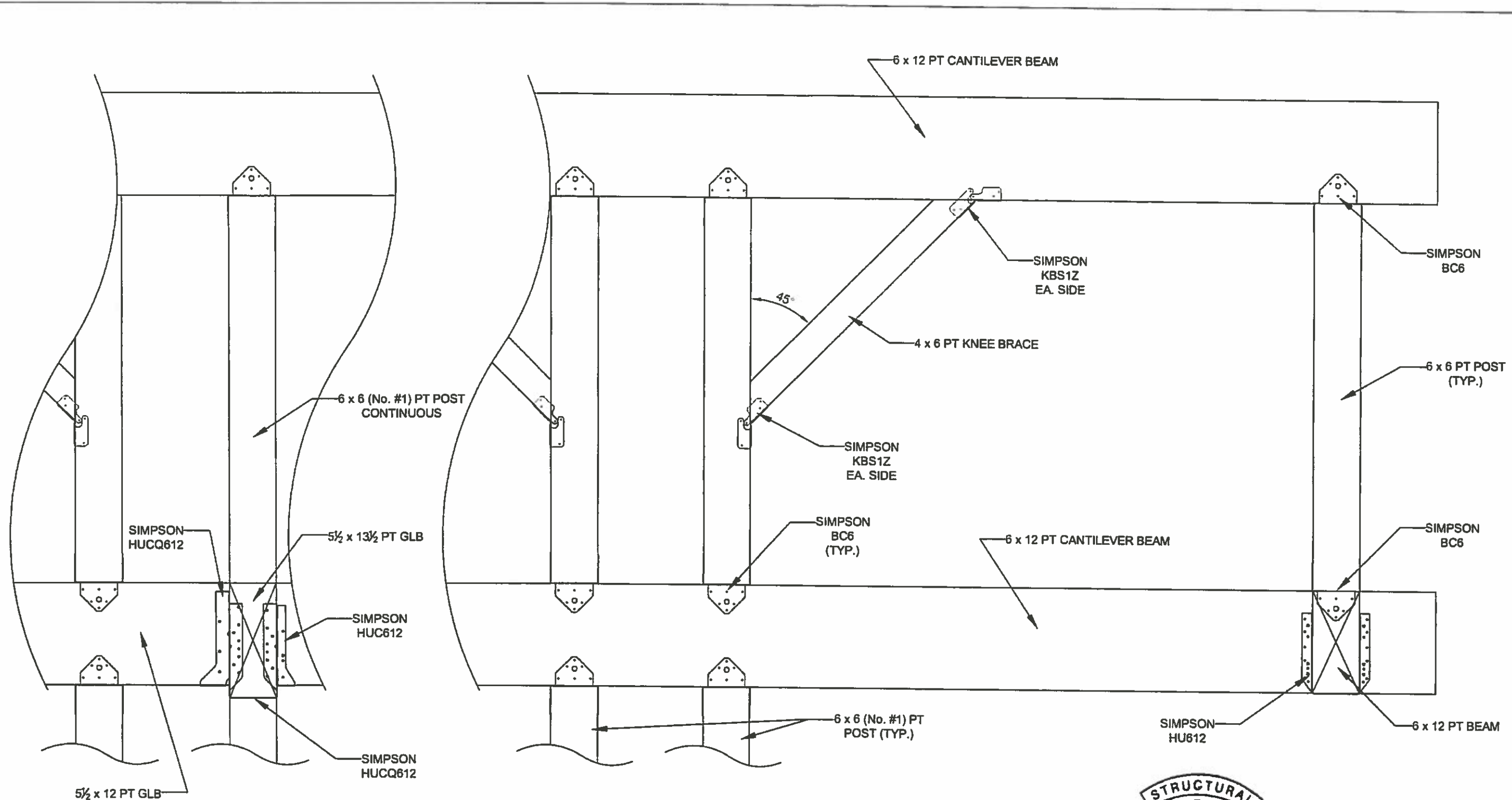
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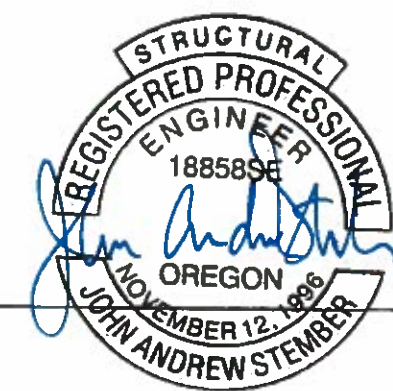
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**NOTE**  
 PROVIDE END TREATMENT  
 FOR ALL CUT ENDS

**1**  
**S-3.10** BEAMS TO POSTS & CANTILEVER BEAMS  
 1" = 1'0"



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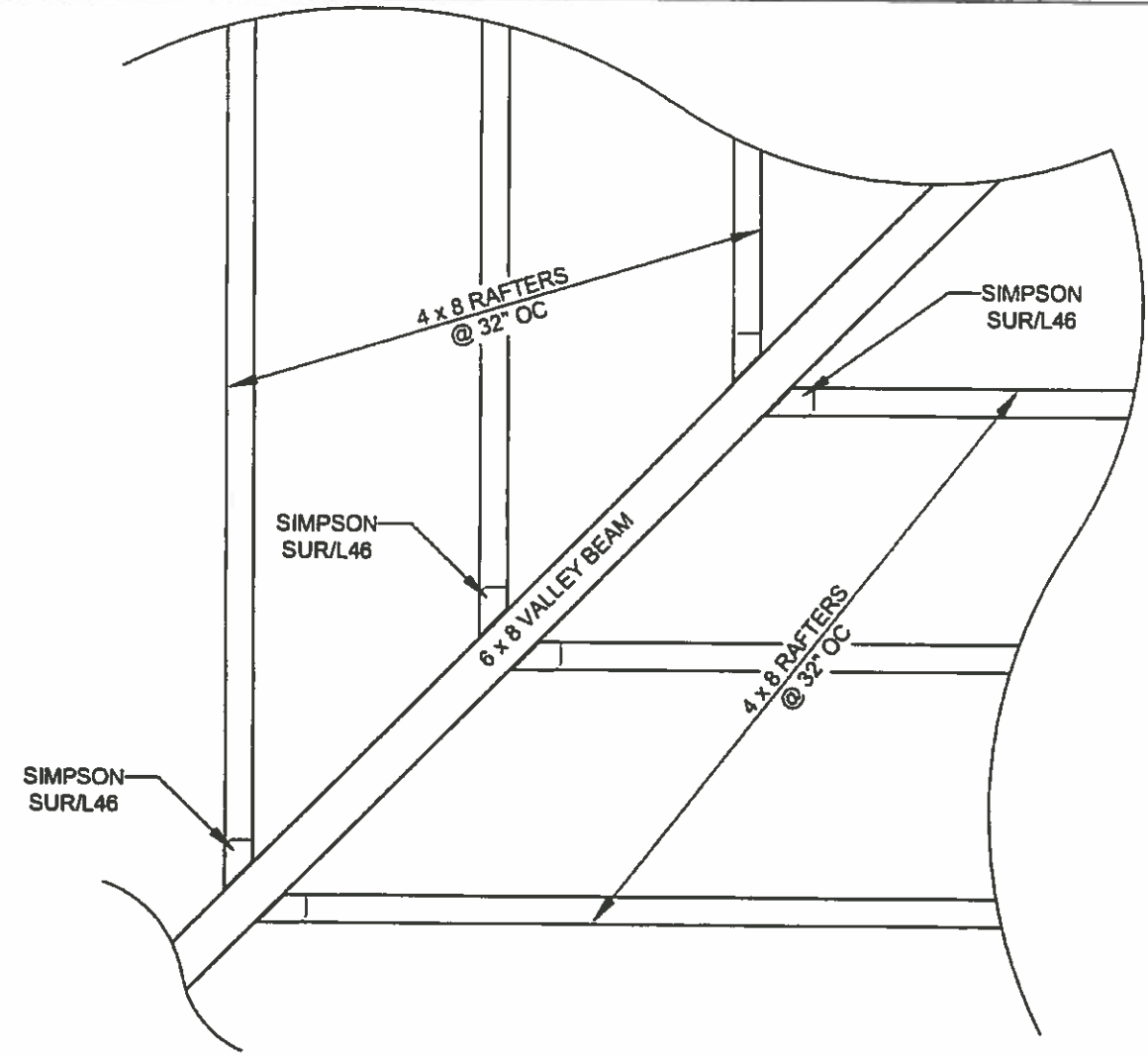
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SHEET NO: <b>S-3.10</b>



**NOTE**  
 PROVIDE END TREATMENT  
 FOR ALL CUT ENDS

1 RAFTERS TO VALLEY BEAM  
 S-3.11 1" = 1'0"



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 DETAIL**

SHEET NO:  
**S-3.11**