

1. SHELFER DESIGN

A. THIS SHELFER HAS BEEN DESIGNED AS AN OPEN STRUCTURE. THE ADDITION OF ANY ENCLOSURE SUCH AS WALLS, INSET MESH, OR SHADE SCREENS SHALL BE PROHIBITED AS INCREASED WIND FORCES MAY RESULT.

2. FOUNDATION

A. THE FOUNDATION SHALL REST ON SOUND SOIL THAT IS FREE OF ORGANIC AND DESTRUCTIVE MATERIALS AND CAPABLE OF SUPPORTING 1000 PSF VERTICAL BEARING PRESSURE.

B. FOUNDATION DESIGN SHOWN IS A RECOMMENDATION ONLY. OWNER SHALL VERIFY ACTUAL SOIL CONDITIONS AT EACH JOB SITE AND ANY REQUIRED ADJUSTMENTS TO THE FOOTING DESIGN SHALL BE DESIGNED BY OTHERS.

3. CONCRETE

A. COMPRESSION STRENGTH OF ALL REINFORCED CONCRETE SHALL NOT BE LESS THAN 2500 PSI AT 28 DAYS.

B. REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO THE REQUIREMENTS OF MINIMUM ASTM A615 GRADE 40 FOR #4 AND SMALLER BARS AND GRADE 60 FOR BARS LARGER THAN #4.

C. MINIMUM CONCRETE CLEAR COVER FOR REINFORCING BARS SHALL BE 3".

D. ANCHOR BOLTS IN CONCRETE SHALL BE ASTM F1554, GRADE 36 HEX HEAD BOLTS.

4. STRUCTURAL STEEL

A. STEEL PLATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36

B. HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500, GRADE B.

C. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A325.

D. WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY'S SPECIFICATION FOR THE MATERIAL BEING WELDED.

E. WELDING ELECTRODES SHALL BE E70XX.

F. STEEL FRAMING SHALL BE COATED WITH ANTI-GRAFFITI POLYESTER TGIC POWDER COAT FINISH MEETING AAMA 2604-02 SPECIFICATION.

5. STEEL ROOF DECK

A. INTERLOCKING SEAL GALVALUME ROOF DECK SHALL BE ROLL FORMED FROM ASTM A792, GRADE 50 STEEL AND SHALL CONFORM TO THE DECK PROFILE SHOWN ON THE DRAWINGS.

B. ROOF DECK SHALL BE COATED WITH HEAT REFLECTIVE BASF ULTRA-COOL COATING OR APPROVED EQUAL.

6. ALUMINUM

A. EXTRUDED ALUMINUM RIDGE CAP, AND GUTTER SHALL BE FABRICATED FROM ALUMINUM ALLOY 6105-T5 AND SHALL CONFORM TO THE REQUIREMENTS SHOWN ON THE DRAWING.

B. EXTRUDED ALUMINUM RIDGE CAP, AND GUTTER SHALL BE COATED WITH ANTI-GRAFFITI POLYESTER TGIC POWDER COAT FINISH MEETING AAMA 2604-02.

7. SCREWS

A. SCREWS ATTACHING TO STEEL SHALL BE 12-24 HEX WASHER HEAD #6 POINT SELF DRILLING SCREWS WITH BOND SEAL WASHERS BY SFS OR APPROVED EQUAL.

B. SCREWS ATTACHING TO ALUMINUM SHALL BE 8-18 HEX WASHER HEAD #2 POINT SELF DRILLING SCREWS BY ATLAS OR APPROVED EQUAL.




C. ALL SCREWS SHALL BE STAINLESS STEEL OR COATED WITH ZINC.

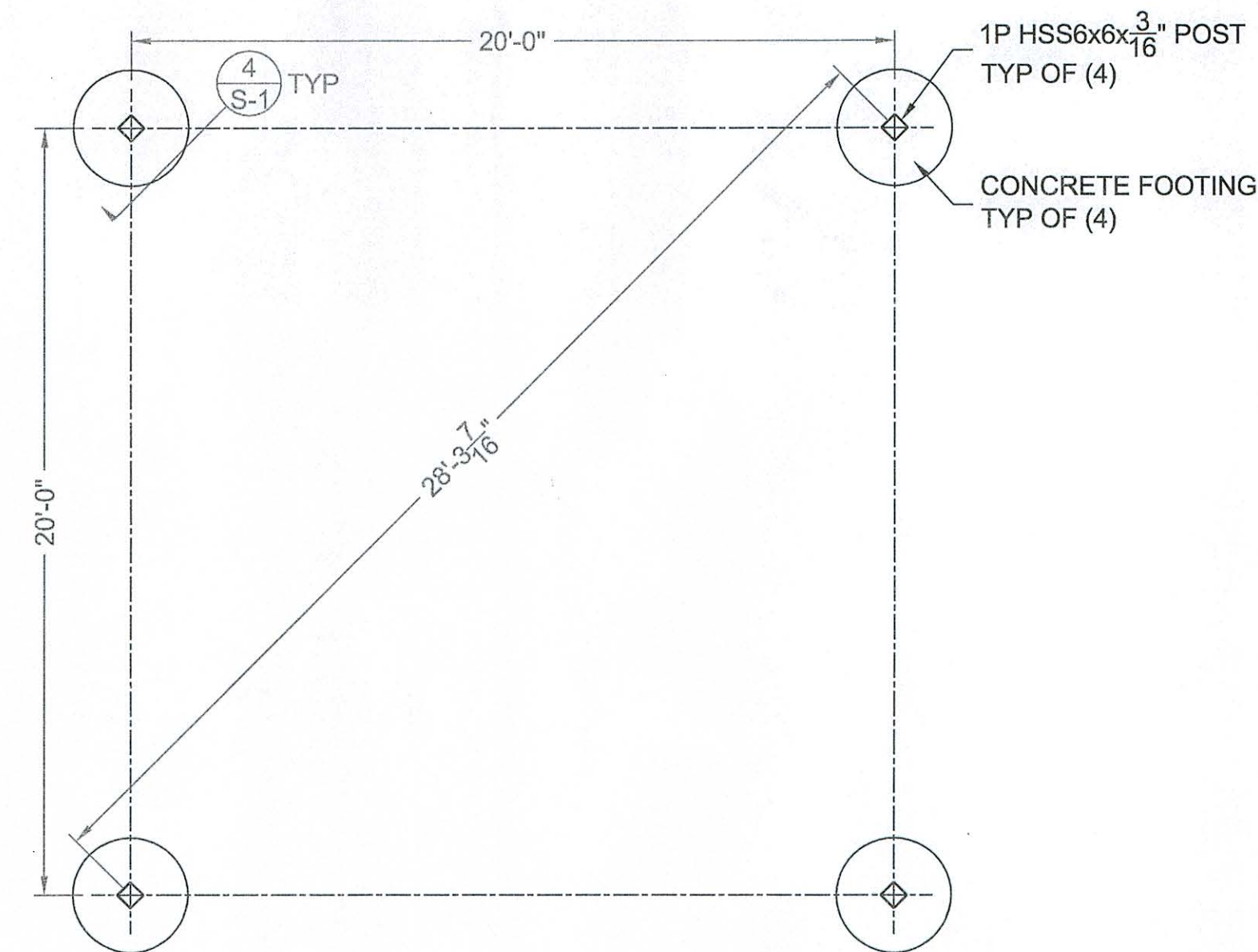
8. SHOP FABRICATION AND FIELD ASSEMBLY

A. ALL STRUCTURAL STEEL AND ALUMINUM COMPONENTS SHALL BE SHOP FABRICATED SO THAT FIELD ASSEMBLY OF CONNECTIONS CAN BE PERFORMED USING ONLY BOLTING AND SCREW PLACEMENT.

OCCUPANCY CLASSIFICATION	A-3 (NON-SEPERATED USE)
CONSTRUCTION TYPE	TYPE II-B
FLOOR AREA	576 SQ. FT.
OCCUPANCY LOAD	7 SQ. FT. / OCCUPANT= 82 OCCUPANTS / SHELTER

<u>WIND DESIGN CRITERIA</u>	
BASIC WIND SPEED	100 MPH
WIND IMPORTANCE FACTOR	$I_w = 1.0$
OCCUPANCY CATEGORY	I
WIND EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT	NA (OPEN STRUCTURE)
DESIGN WIND PRESSURE (COMPONENTS & CLADDING)	SEE CALCS.
<u>SEISMIC DESIGN CRITERIA</u>	
SEISMIC IMPORTANCE FACTOR	$I_s = 1.0$
OCCUPANCY CATEGORY	I
SPECTRAL RESPONSE ACCELERATION, 0.2, SECOND	$S_{as} = 0.225$
SPECTRAL RESPONSE ACCELERATION, 1.0, SECOND	$S_{a1} = 0.089$
SITE CLASS	D
SPECTRAL RESPONSE COEFFICIENT, S_{ws}	0.240
SPECTRAL RESPONSE COEFFICIENT, S_{w1}	0.143
SEISMIC DESIGN CATEGORY	C
BASIC SEISMIC FORCE RESISTING SYSTEM	ORDINARY STEEL MOMENT FRAME
DESIGN BASE SHEAR	$V = C_w W$
SEISMIC RESPONSE COEFFICIENT	$C_s = 0.069$
RESPONSE MODIFICATION FACTOR	$R = 3.5$
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE

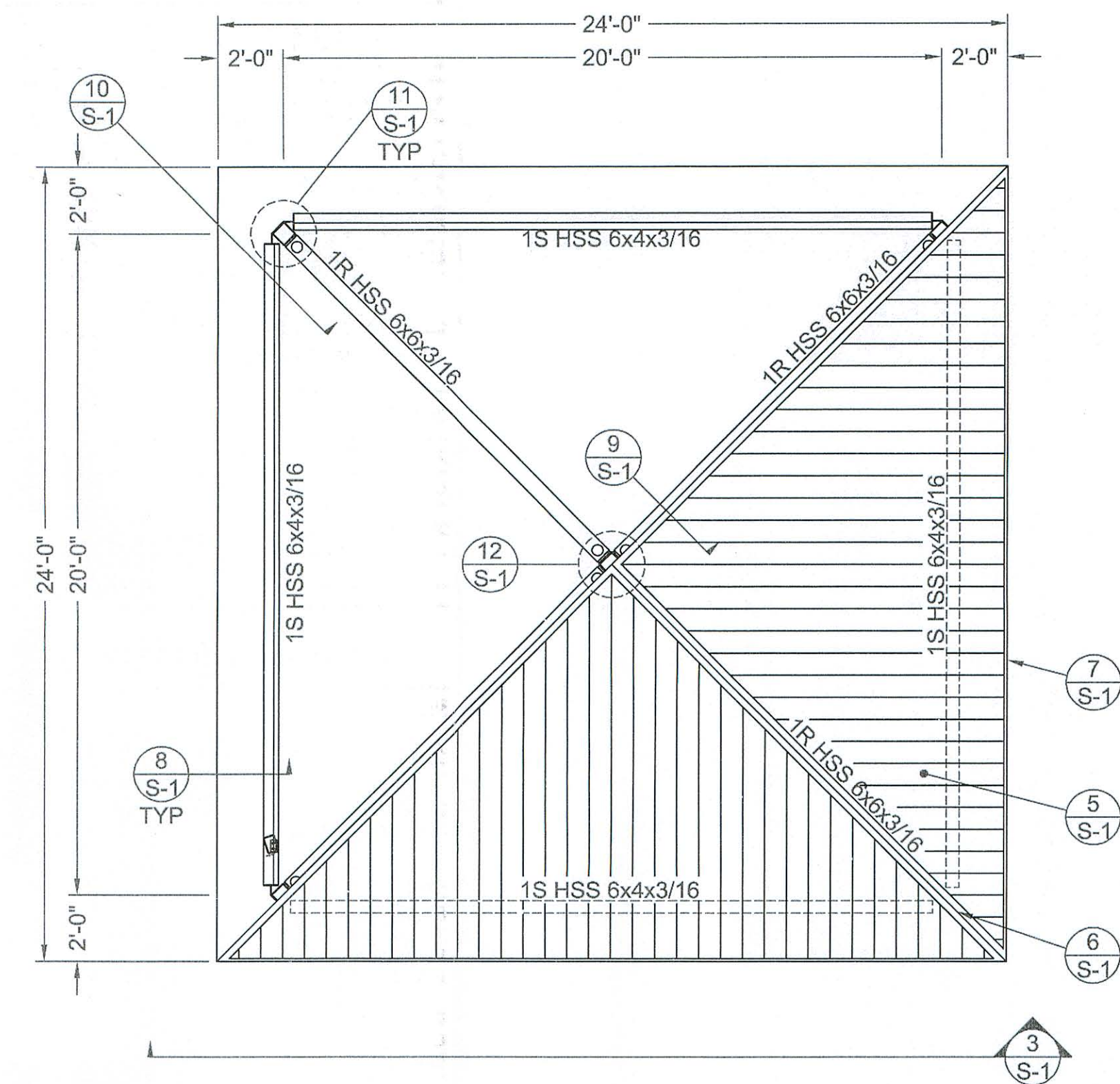
FOOTING REACTIONS	
	5.548 KIPS
	1.644 KIPS
	0.525 KIPS



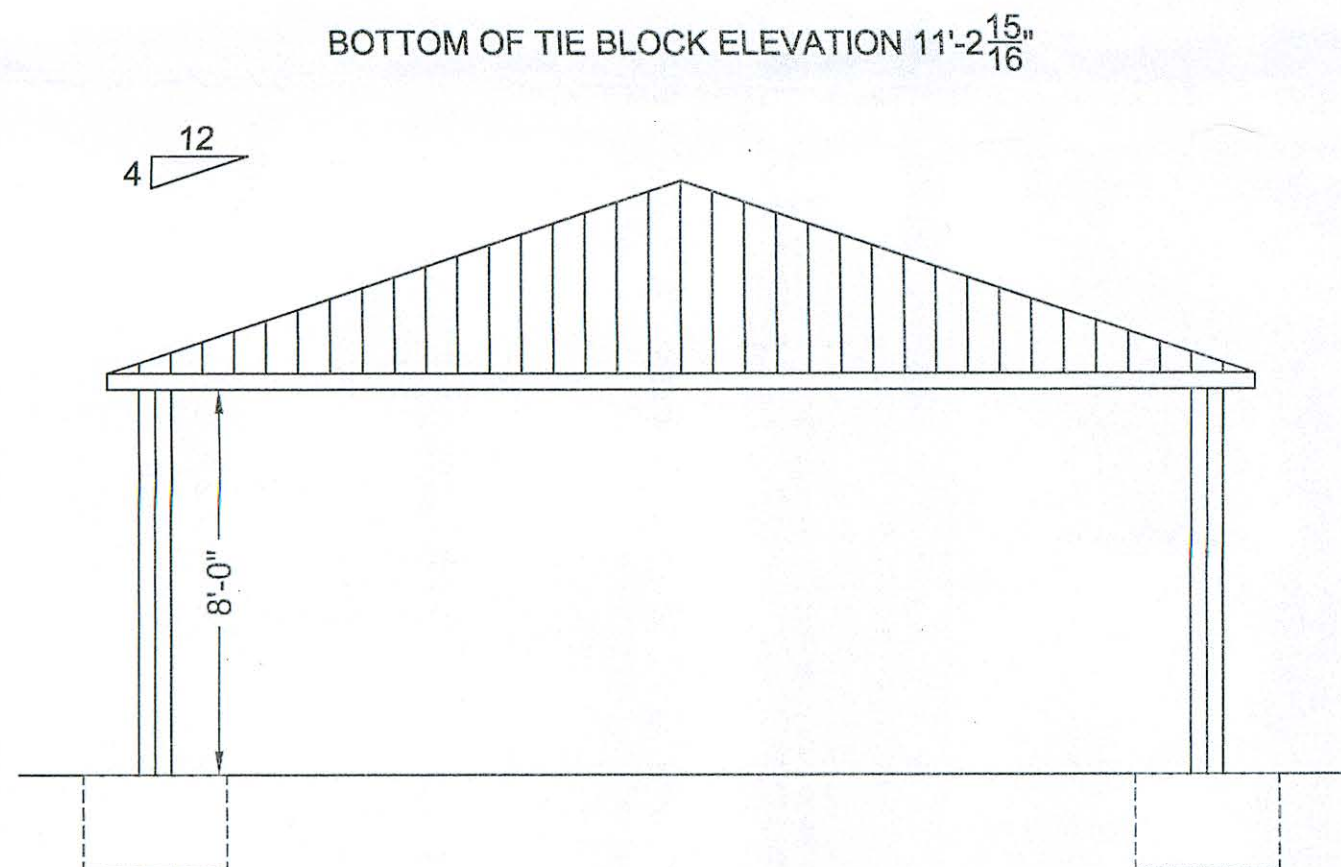
24'x24' NAVAJO SHELTER FOUNDATION PLAN

1/4" = 1'-0"

1
S-1



24'x24' NAVAJO SHELTER ROOF PLAN

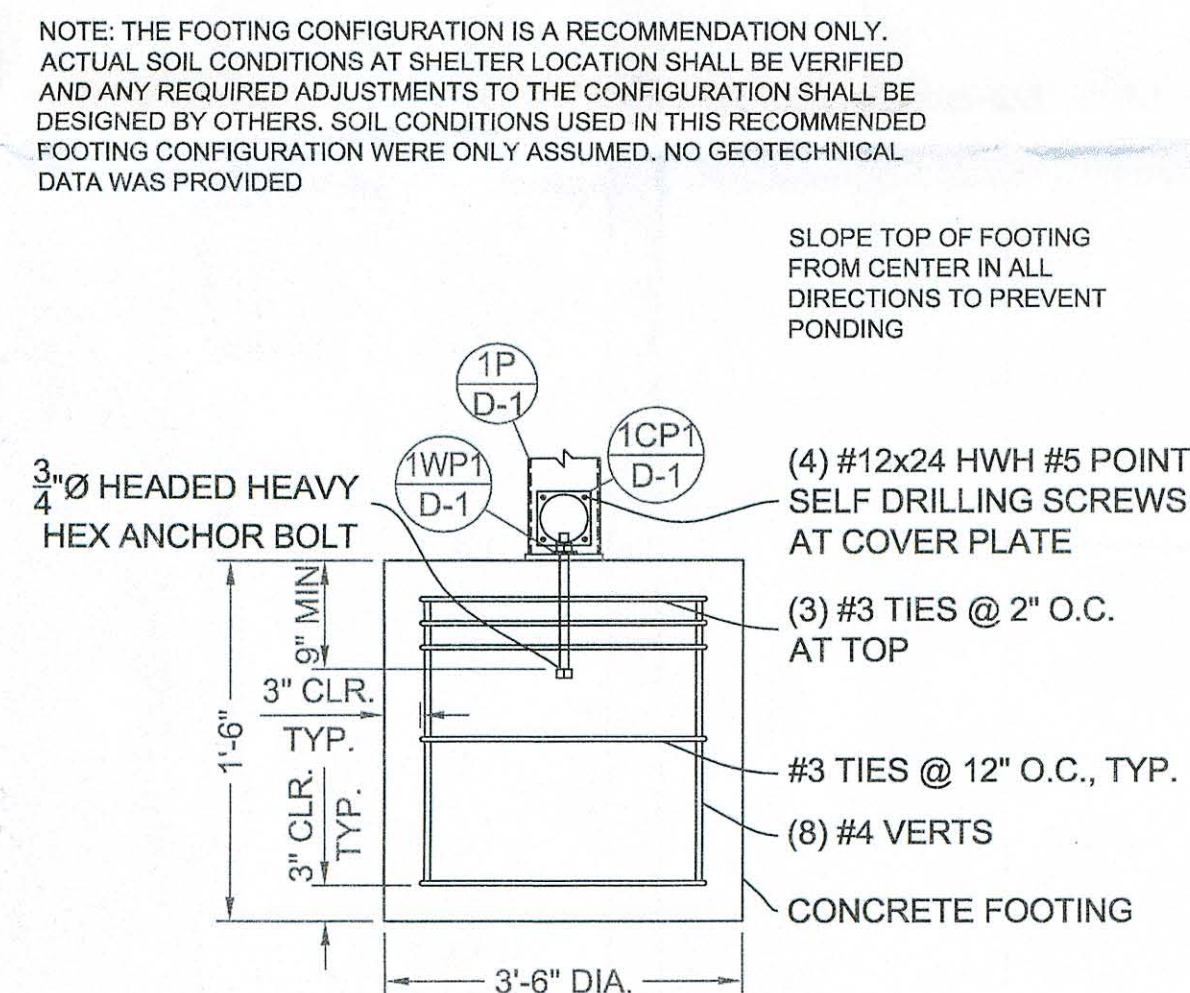


24'x24' NAVAJO ELEVATION

1/4" = 1'-0"

3

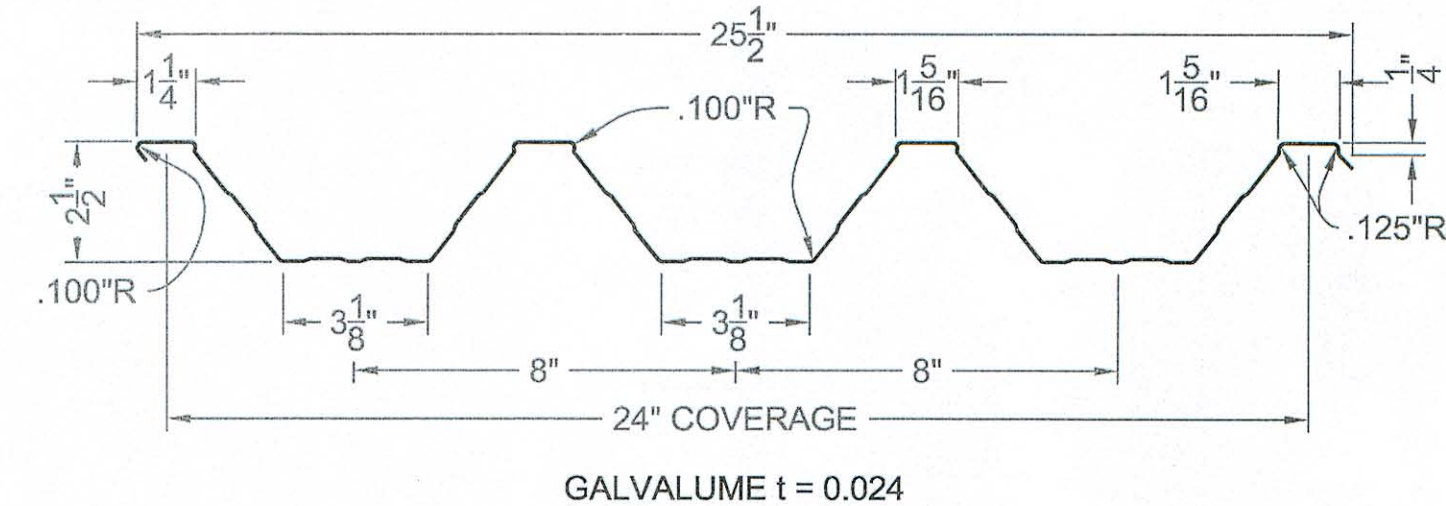
S-1



FOUNDATION SECTION

$\frac{3}{4}" = 1'-0"$

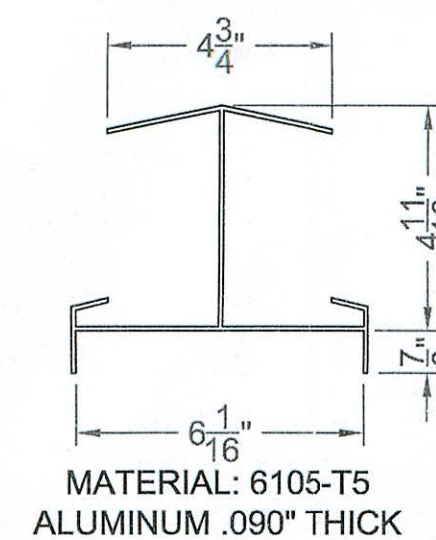
4
S-1



INTERLOCKING ROOF DECK PROFILE

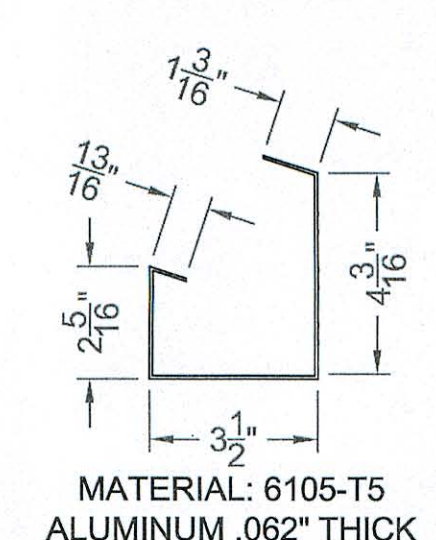
3" = 1'-0"

5
S-1

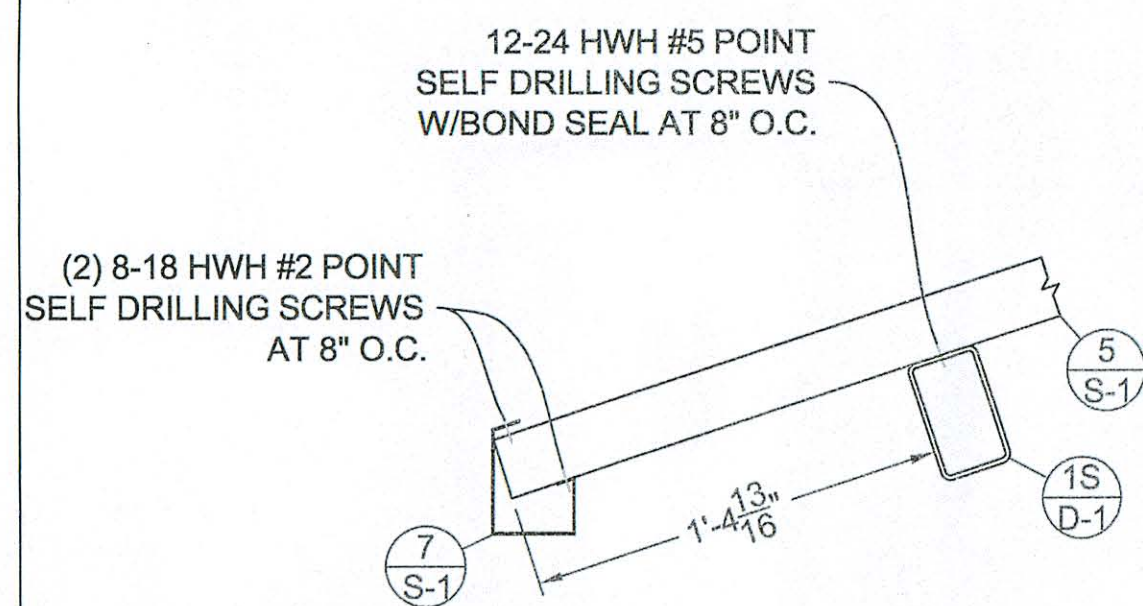


RIDGE CAP
3" = 1'-0"

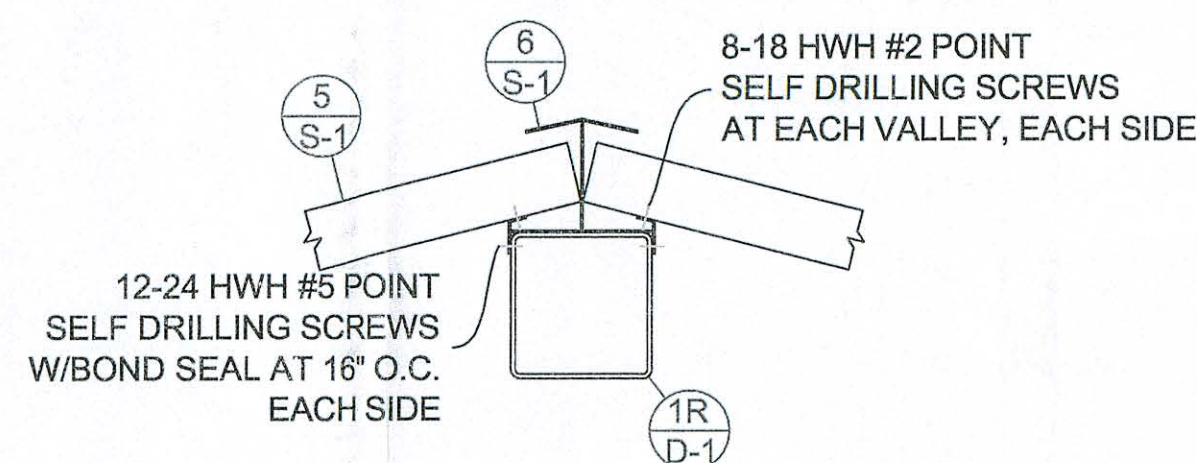
6
S-1



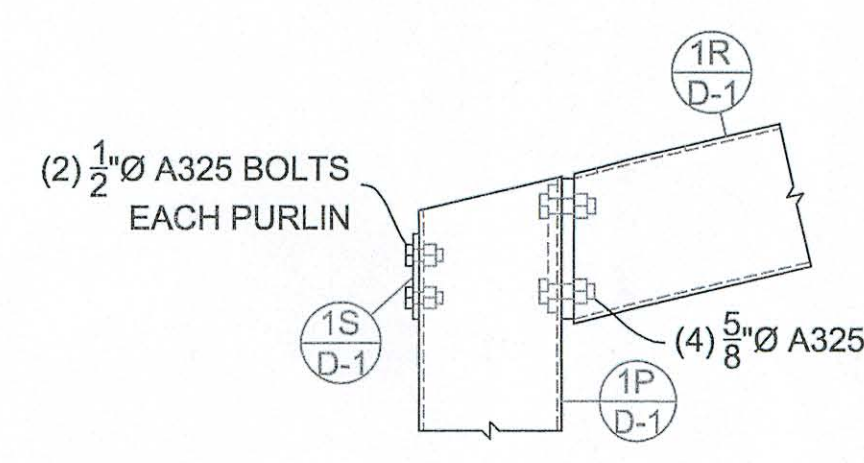
GUTTER 7
S-1



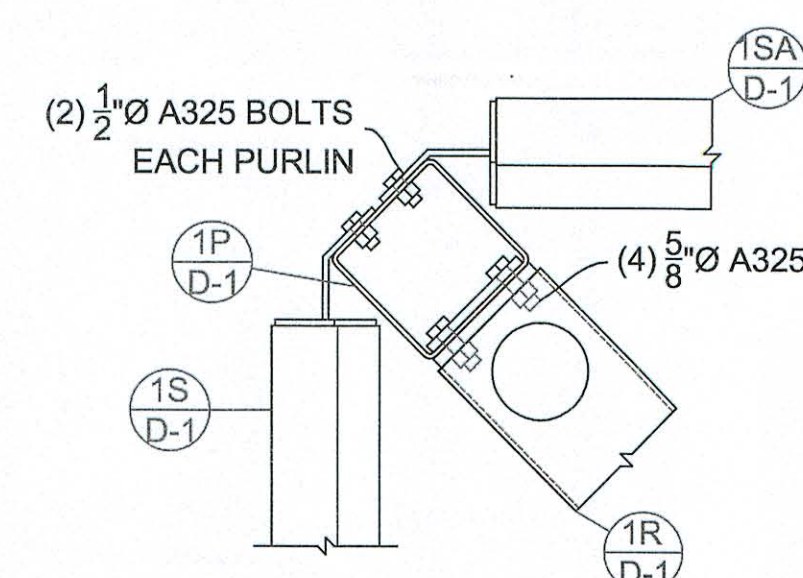
ROOF DECK TO PURLIN CONNECTION 8
1-1/2" = 1'-0" S-1



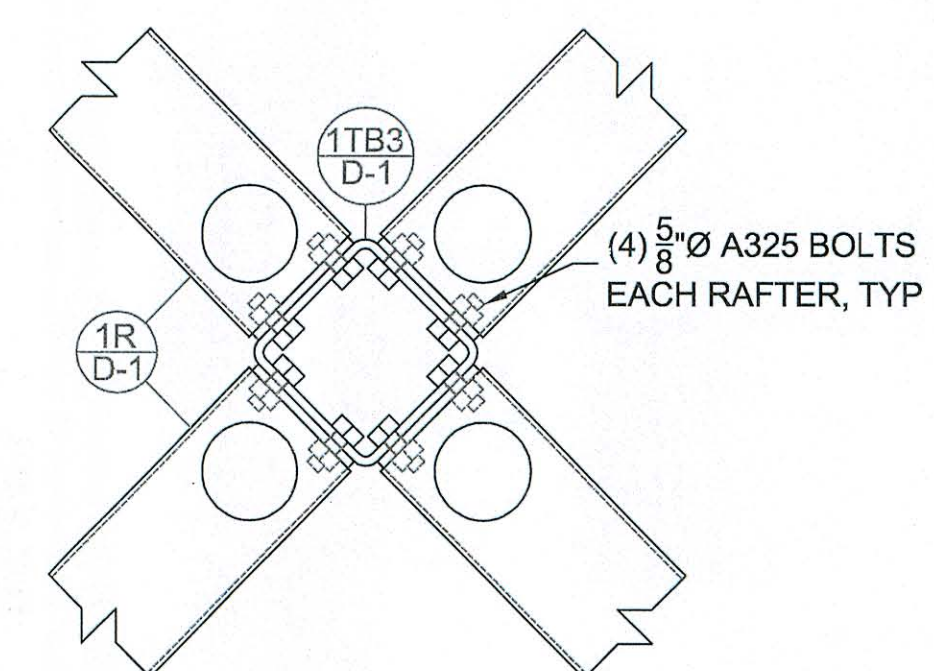
ROOF DECK TO RAFTER & RIDGE BEAM CONNECTION 9
1-1/2" = 1'-0" S-1



RAFTER TO POST CONNECTION 10
1'-1/2" = 1'-0" S-1

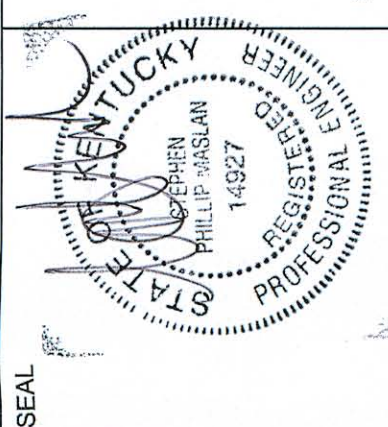


PURLIN TO POST CONNECTION 11
1-1/2" = 1'-0" S-1



RAFTER TO RIDGE BEAM CONNECTION 12
1-1/2" = 1'-0" S-1

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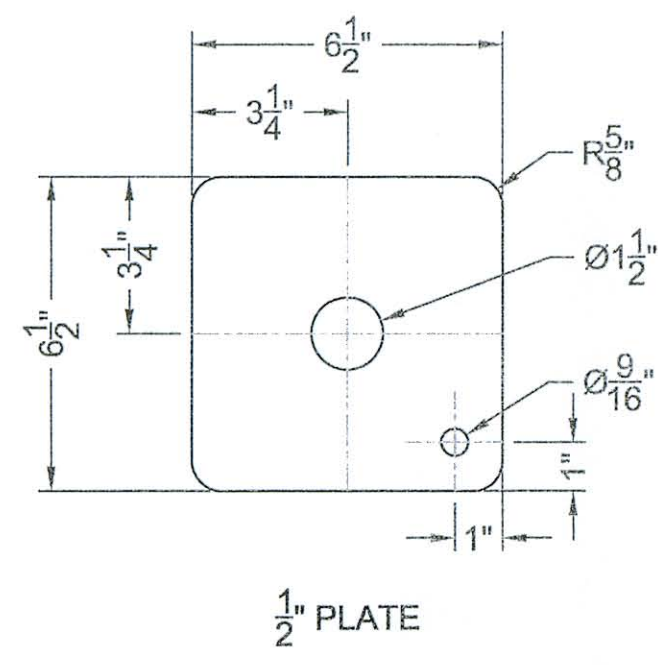


24'x24' NAVAJO SHELTER

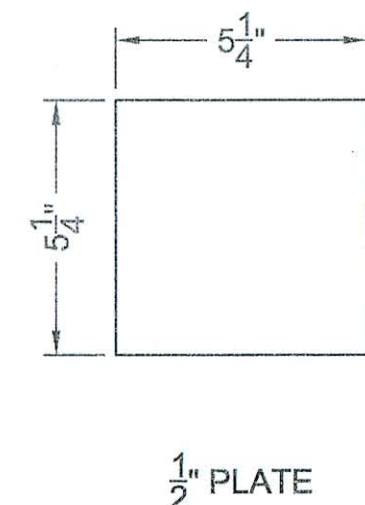
SHELTER

DRAWN BY
RJM
CHECKED BY
BW, TN
SCALE
SEE DETAILS
DATE
3-31-11
REVISE DATE
5-3-11
P.O. NO.
21404
JOB NO.
139860
DRAWING NO.
A-2333
SHEET

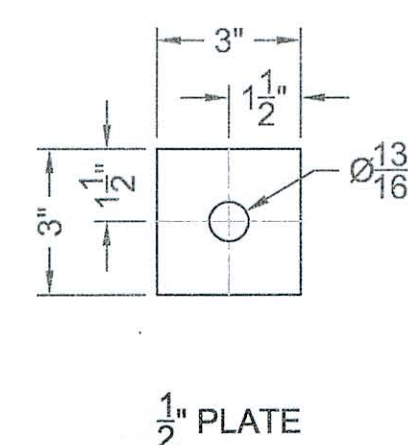
S-1
OF 2 SHEETS



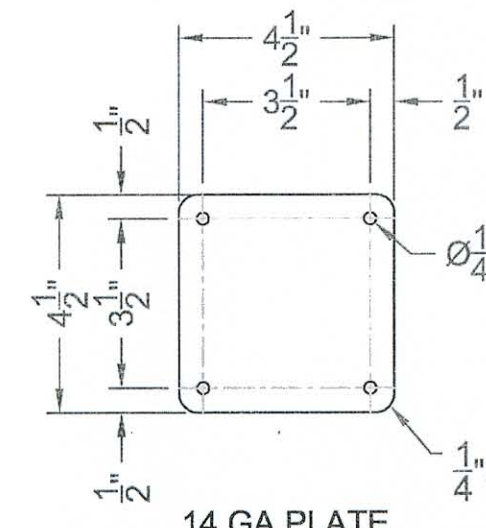
(4) BASE PLATE 1BP7



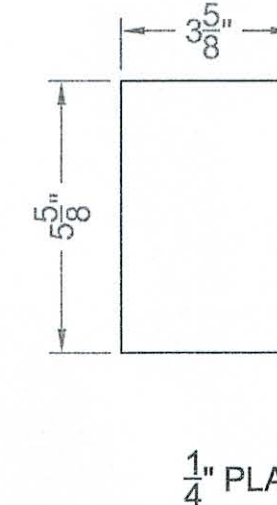
(4) POST PLATE 1PL7



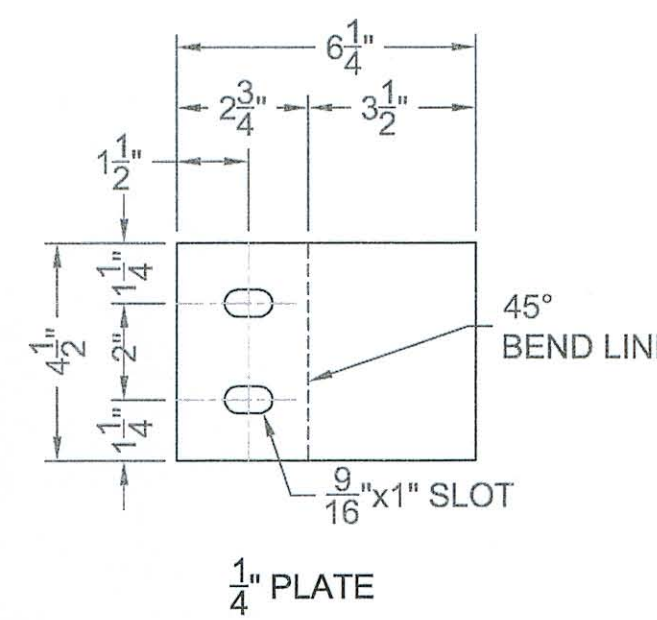
(4) WASHER 1WP1



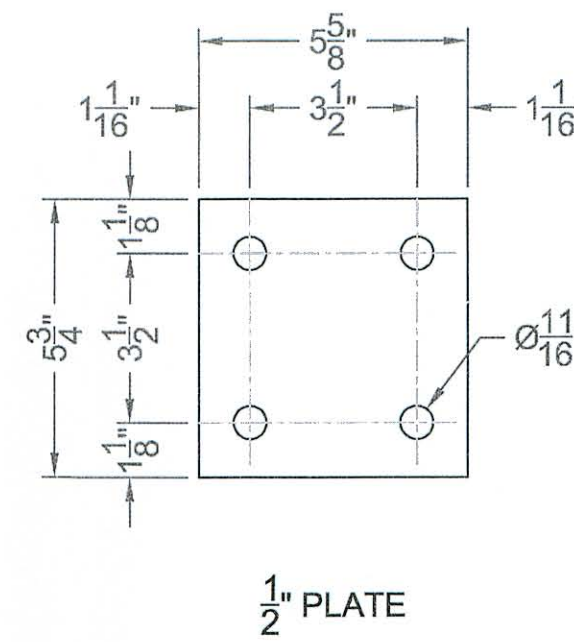
(4) COVER PLATE 1CP1



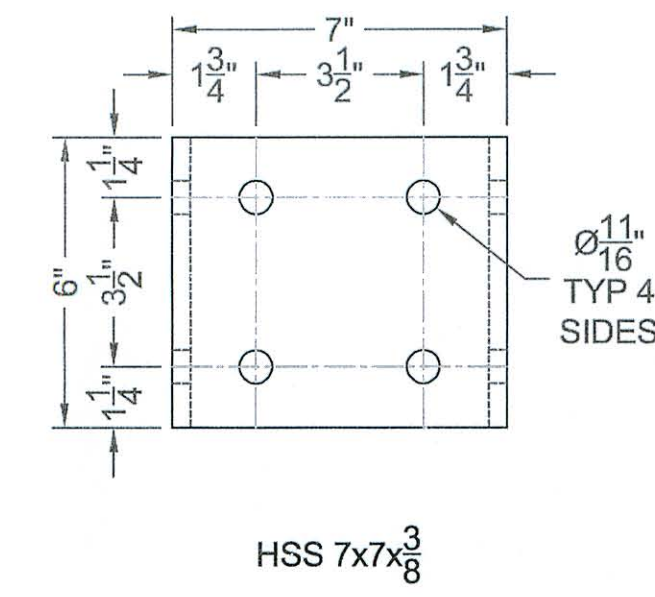
(8) PURLIN PLATE 1Sa



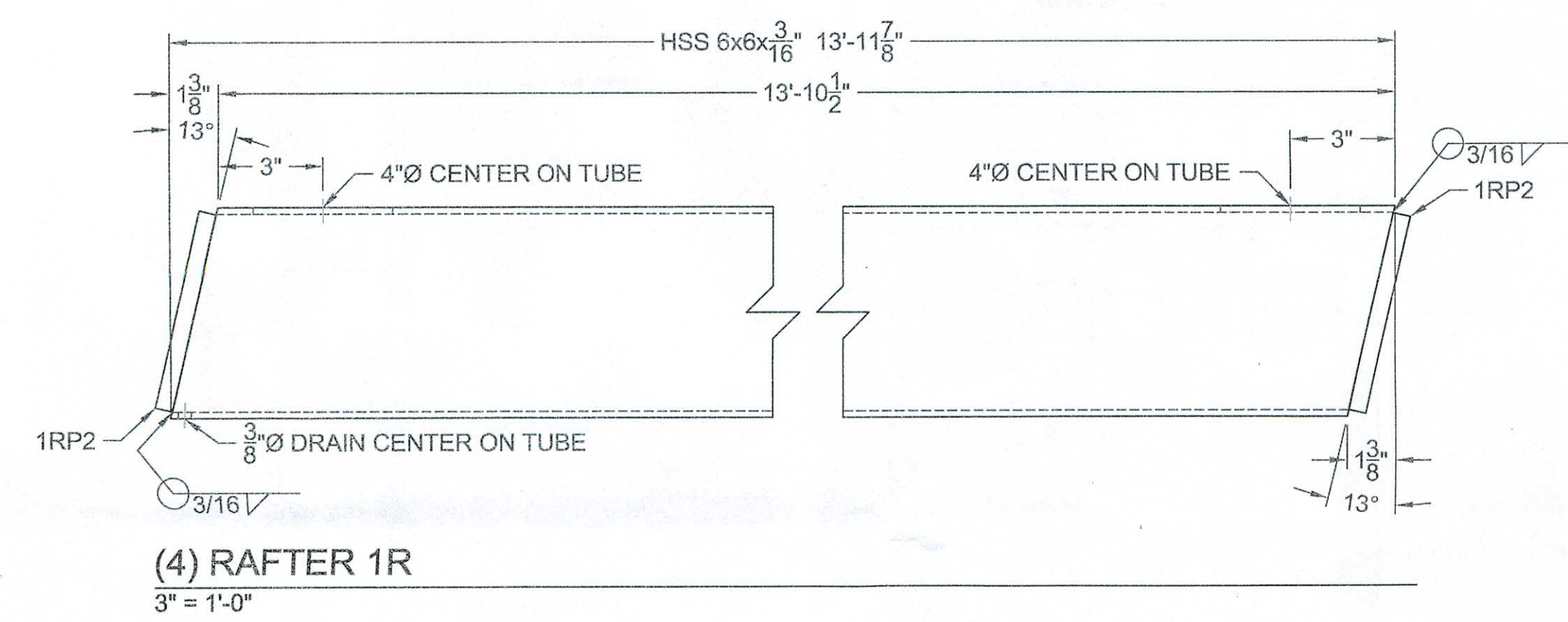
(8) PURLIN MOUNT 1Sb



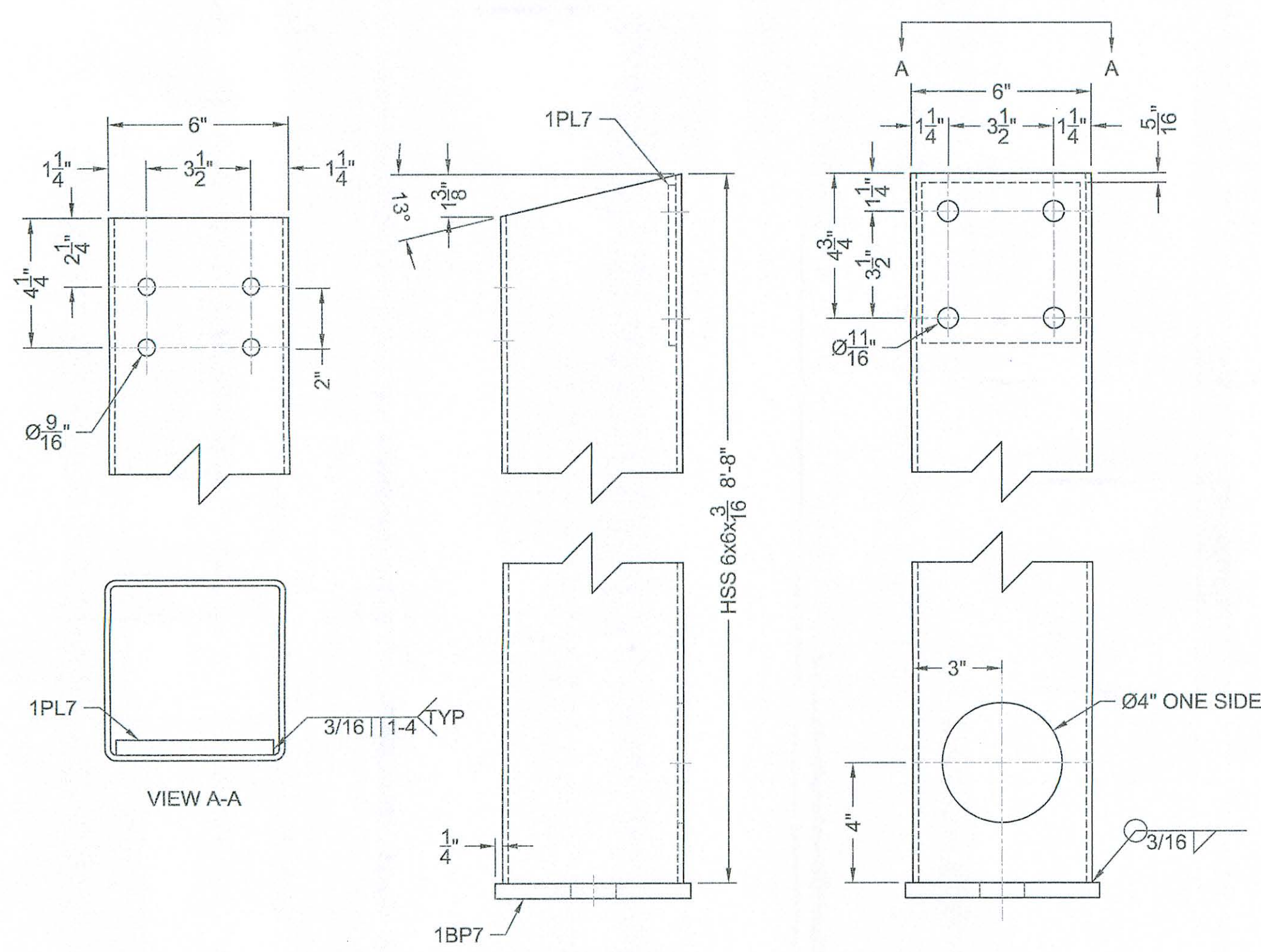
(8) RAFTER CAP 1RP2



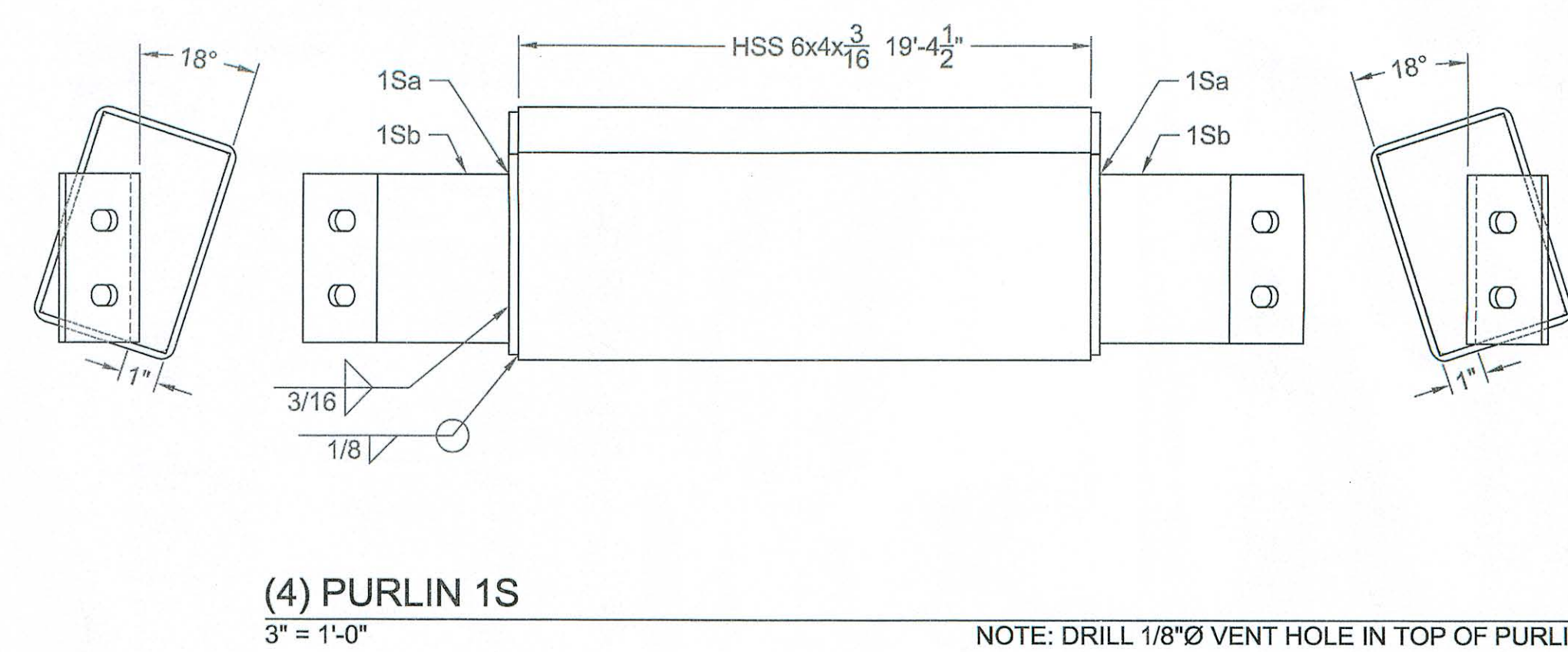
(1) TIE BLOCK 1TB3



(4) RAFTER 1R
3" = 1'-0"



(4) POST 1P
3" = 1'-0"



(4) PURLIN 1S
3" = 1'-0"

NOTE: DRILL 1/8" VENT HOLE IN TOP OF PURLIN