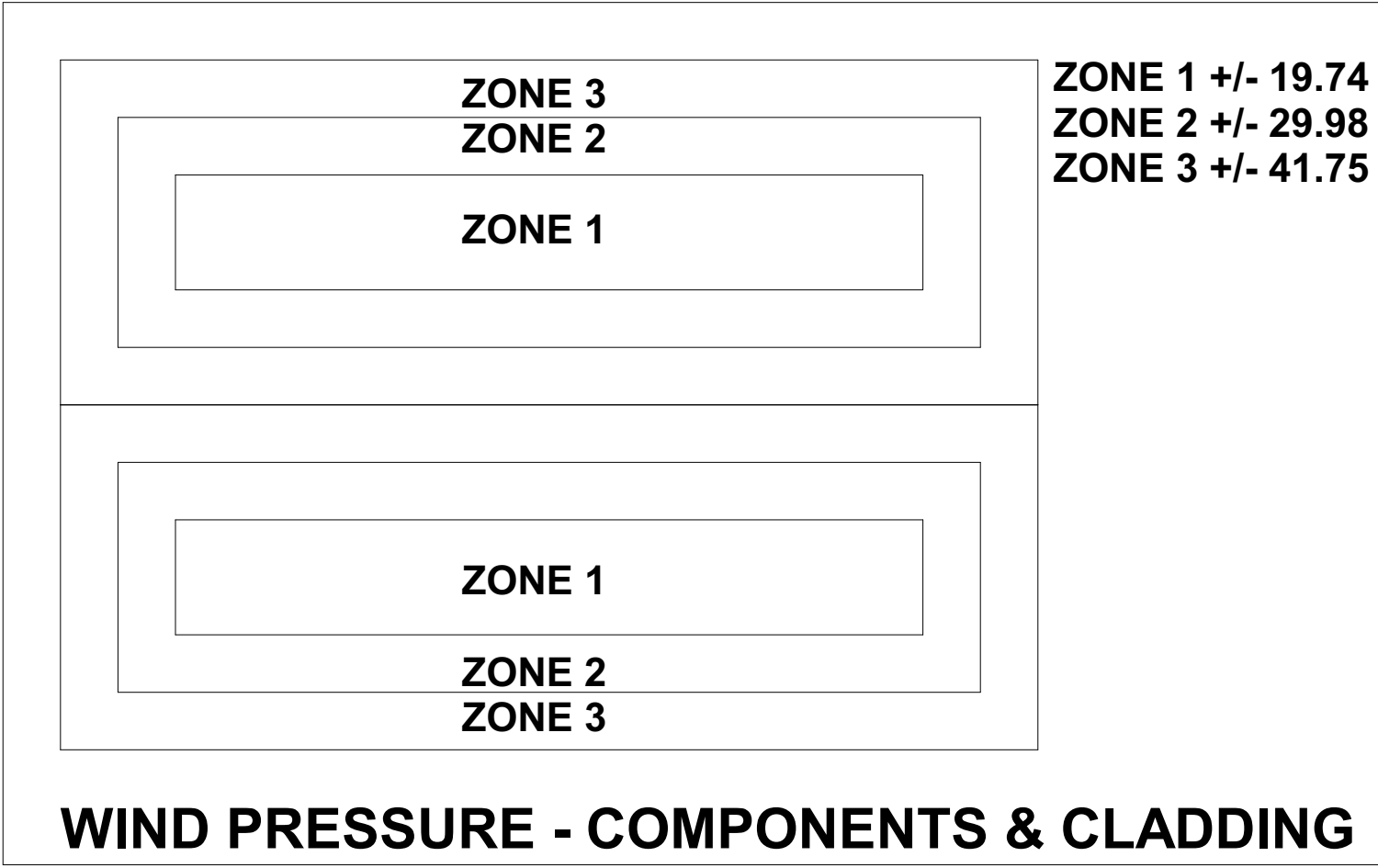




WIND EXPOSURE CATEGORY

☒ X

☐ B

☐ C

☐ D

MAIN BUILDING DIMENSIONS		
D-1		
BARN WIDTH (FT)	6"X6" POST	8"X8" POST
30	29' - 01"	28 - 08"

MAIN POST HEIGHT (D-3)				
SIZE CIRCLED OR LESS				
10'	12'	14'	16'	20'

POST SPACING (FT)

☐ 8

☐ 10

☒ 12

LEAN BUILDING DIMENSIONS		
D-4		
LEAN WIDTH (FT)	6"X6" POST	8"X8" POST
12	11'-6 ^{1/2"}	11'-6 ^{1/2"}

ULTIMATE & NOMINAL WIND SPEEDS	
ULTIMATE	NOMINAL
120	93
130	101
140	108
150	116
155	120
160	124

LEAN POST HEIGHT (D-6)			
SIZE CIRCLED OR LESS			
8'	10'	12'	14'
			16'

MAIN BLD ROOF PITCH			
3/12	4/12	5/12	6/12

LEAN BLD ROOF PITCH (a)			
2/12			

DESIGN CRITERIA:

FLORIDA BUILDING CODE 2023 8TH ED.
DESIGN LOADS PER ASCE 7-22
DESIGN SPEED - 130 MPH
ROOF LIVE LOAD - 12.5 PSF
DEAD LOAD - 2.5 PSF
WIND RISK CATEGORY - I
EXPOSURE CATEGORY - B
IMPORTANCE FACTOR - 1.0
INTERNAL WIND PRESSURE - +/- 0.18 PSI

MAIN POST FOOTING SIZE	
F-1	18" DIA. X 48" DEEP
F-2	24" DIA. X 48" DEEP

LEAN POST FOOTING SIZE	
F-1	18" DIA. X 48" DEEP
F-2	24" DIA. X 48" DEEP

POLE BARN SPECIFICATIONS

GABLE WIDTH (D-1): 30'
BUILDING LENGTH (D-2): 48'
EAVE HEIGHT (D-3): 12'
POLE SPACING: 12'
GABLE WIDTH LEAN TO (D-4): 12'
LENGTH OF LEAN TO (D-5): 48'
EAVE HEIGHT OF LEAN TO (D-6): 10'
ROOF PITCH: 3:12
ROOF RISE LEAN TO: 2:12
RIDGE HEIGHT : 15' - 09"
WALLS: OPEN
FLOOR: DIRT
ROOF METAL: 26 GA.
SIDE METAL: N/A
POST SIZE BARN: 8"x8" PT
POST SIZE LEAN TO: 8"x8" PT
FOOTING SIZE BARN: 24"X48"
FOOTING SIZE LEAN: 24"X48"
CONCRETE : 3,000 PSI

* CONTRACTOR TO VERIFY ALL MEASUREMENTS
AND DIMENSIONS

NON-HABITABLE BUILDING



Tomas B. Whitman, PE
MADISON ENGINEERING
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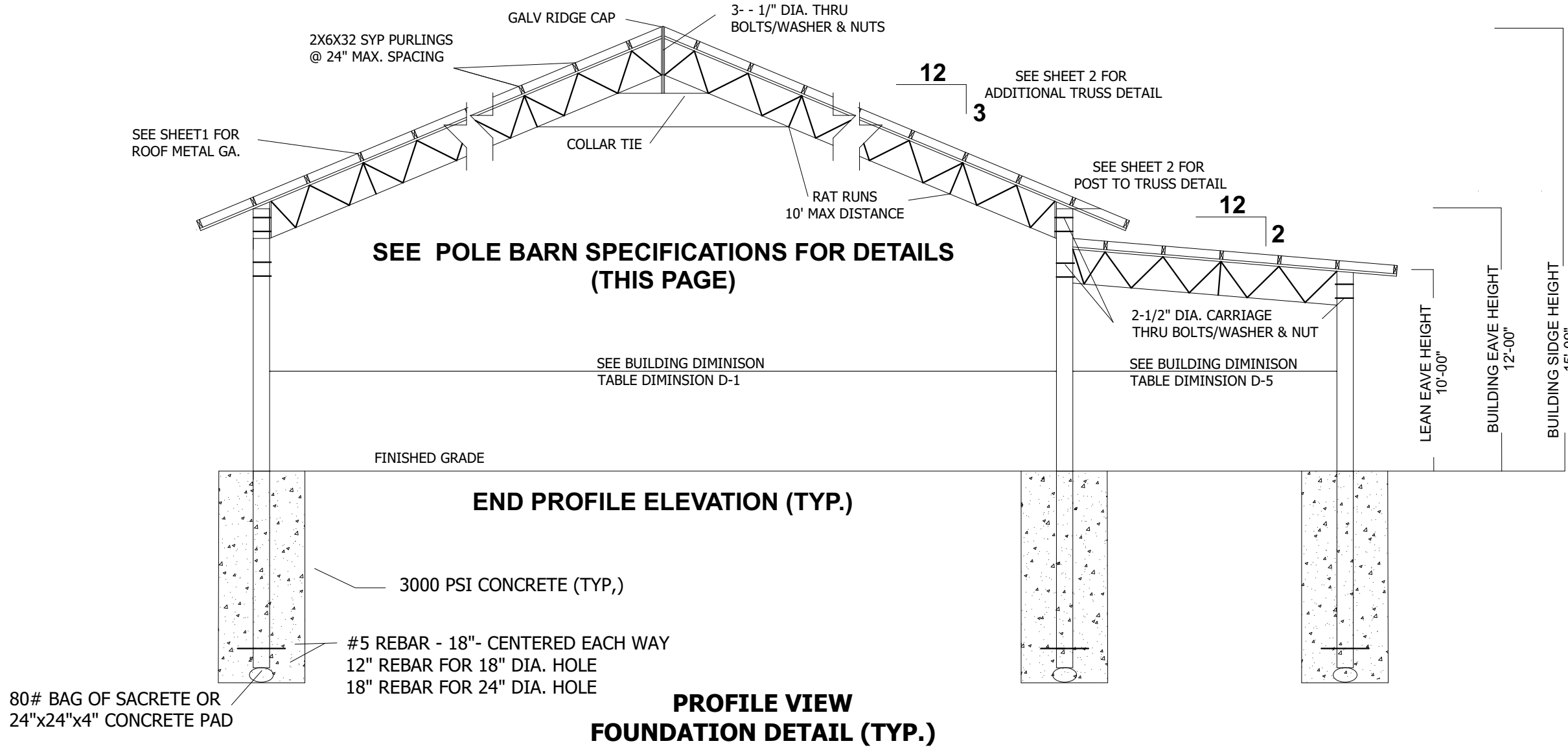
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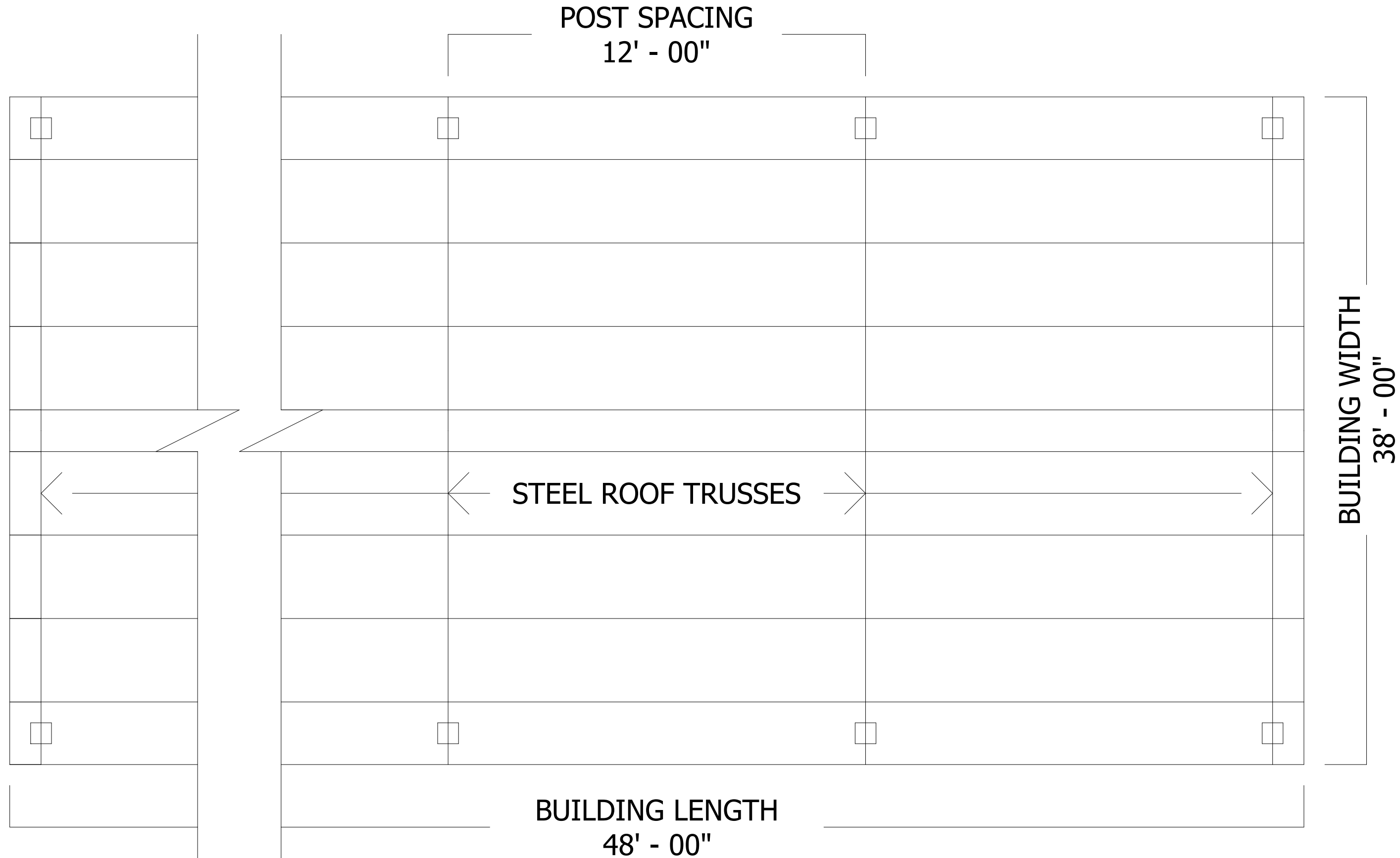
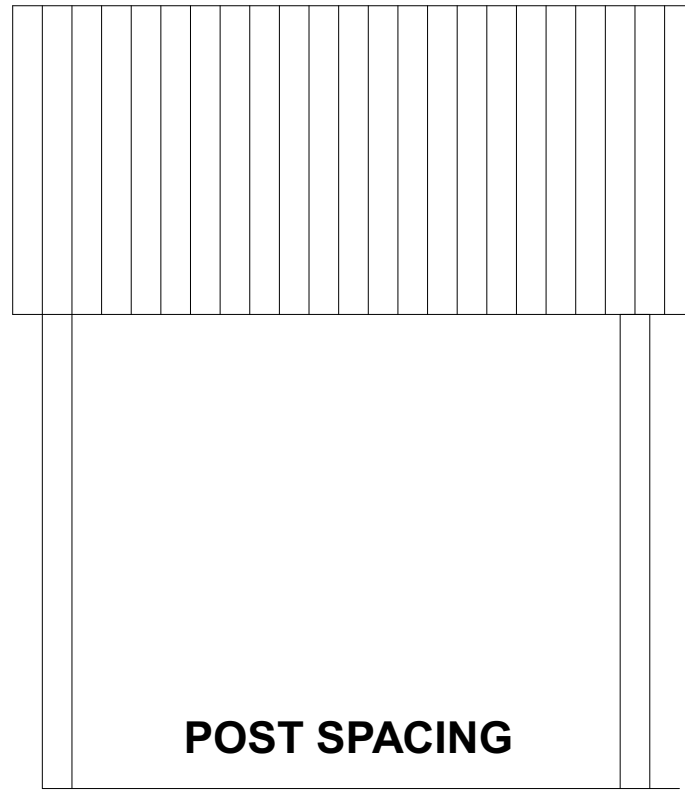
MADISON ENGINEERING, LLC
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERING
269 NE Ridge Loop
Madison, Florida 32340
Phone 850.973.7864
COA No.: 27216 www.madisonengineer.com

POLE BARN - B - 30 X 48
ABT TRUSS
AL BENDENBAUGH (30X48)
213 SW WASHINGTON AVE, FT WHITE, FL 32038

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T. BRENT WHITMAN, P.E.
FL. P.E. #63178 / GA. P.E. #031609
SHEET NO.
1



SEE POLE BARN SPECIFICATIONS FOR DETAILS (THIS PAGE)



NOTES:

- PURLINS SHALL BE 2X6 #2 SYP (MAX SPACE @2'-0" O.C.)
- CONTRACTOR IS RESPONSIBLE FOR TEMPORARY & PERMANENT CONSTRUCTION BRACING.
- ALL DEMINSIONS SHALL BE VERIFIED PRIOR TO FABRICATION.
- ALL WELD PER AWS STANDARDS.
- ALL STELL AND FABRICATION PER ASCI STANDARDS.
- ITEM DEMINSIONS ARE TO BE MODIFIED FOR SHORTER TRUSS LENGTHS.
- ALL FASTNERS SHALL BE INSTALLED PER MANUFACTURES SPECIFICATIONS.
- TRUSS DESIGN CAN BE USED FOR TRUSS LENGTHS SHORTER THAN 25 FEET.
- CONCRETE WORK SHALL CONFORM TO 'BUILDING CODE REQUIRMENTS FOR REINFORCED CONCRETE' (ACI-318).
- ALL CONCRETE SHALL BE 3000 PSI MIN. W/ WWF OR FIBER
- FL PRODUCT APPROVAL CODE ROOF SYSTEM 36904.1



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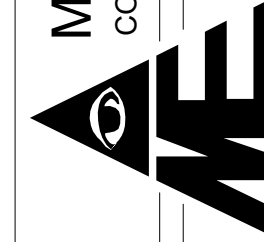
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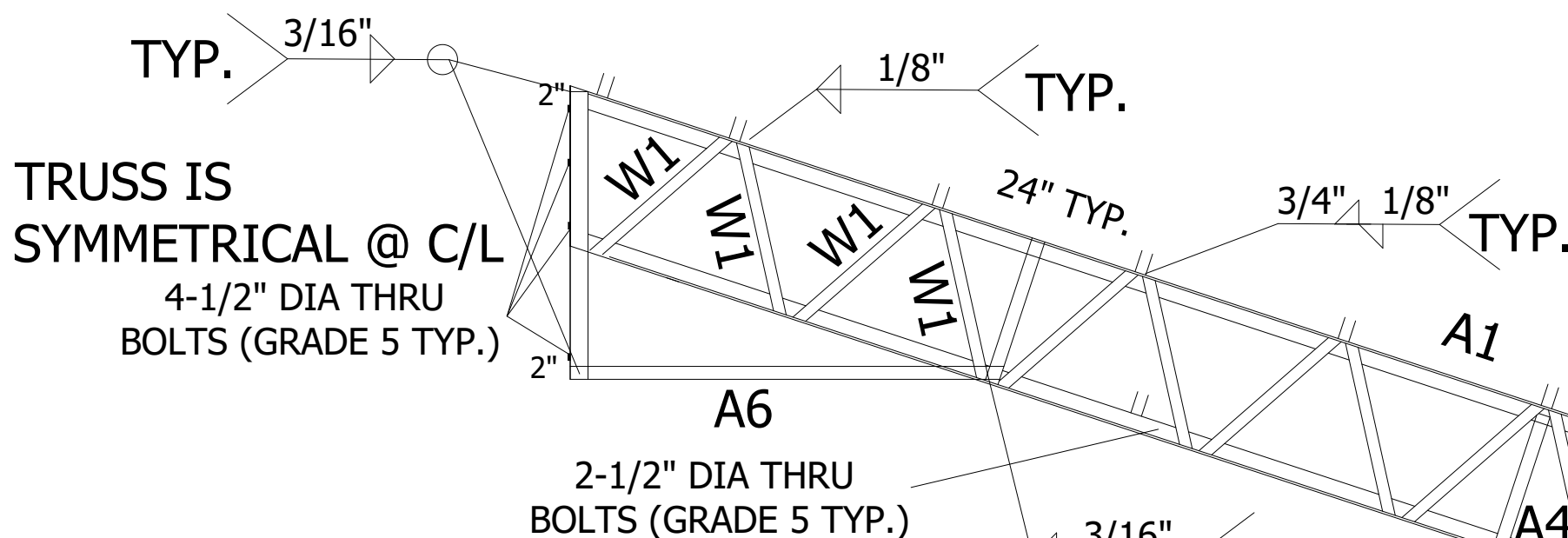
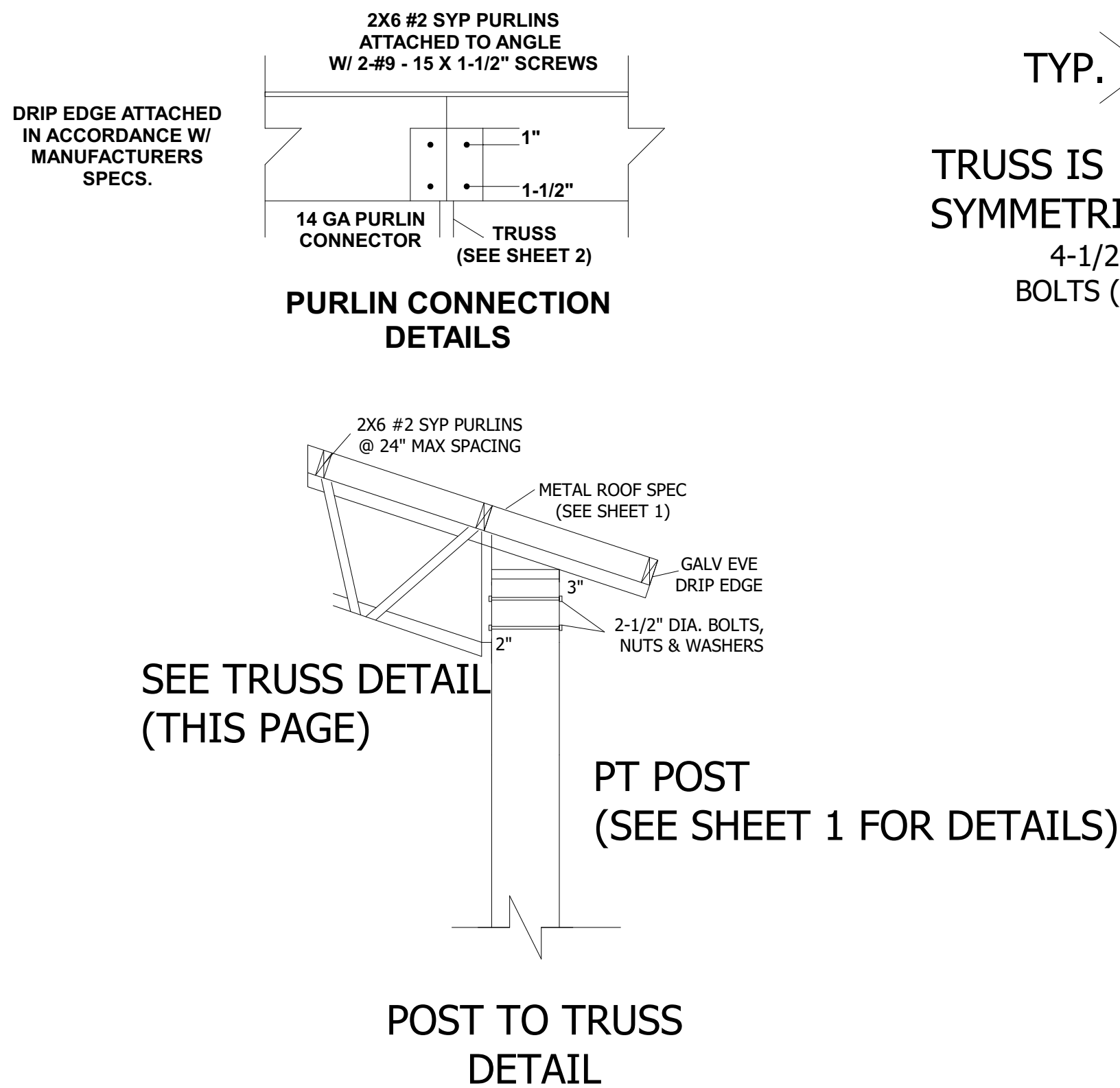
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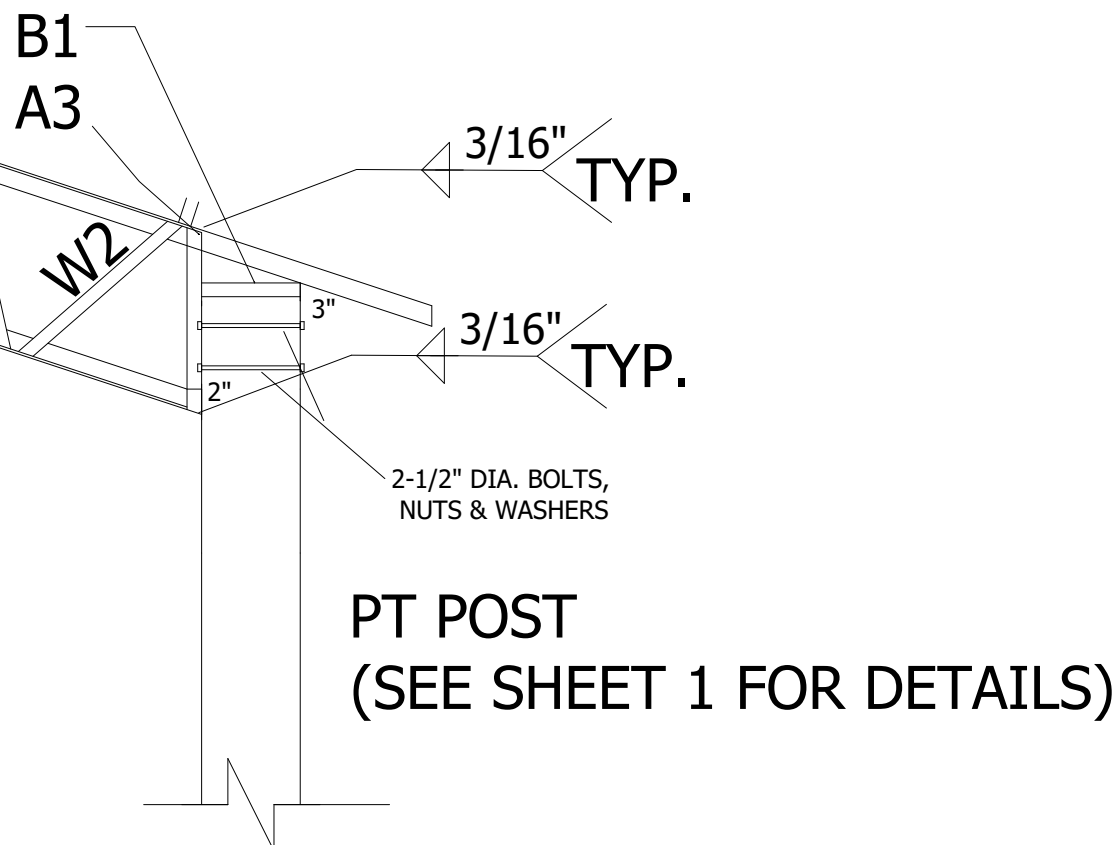
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COLUMBIA COUNTY



14 GA.
PURLIN CLIP
(TYP.)

LATERAL BRACE CLIPS
(6 LOCATIONS MIN.)



NOTES: TRUSS CROSS-SECTION

- 1- MATERIALS SHALL CONFORM TO STEEL ASTM 572.
- 2- ALL STEEL SHALL BE 50ksi IN ACCORD WITH CURRENT AISC MANUAL.
- 3- WELDING ELECTRODES SHALL BE TYPE E70XX
- 4- ALL WELDING SHALL BE IN ACCORD WITH CURRENT AWS REQUIREMENTS
- 5- ALL WELDING SHALL BE DONE BY A CERTIFIED WELDER.
- 6- BOL TS SHALL BE ASTM A325. w/ NUTS & WASHERS. TYP)
- 7- WELD STRENGTH 70 KSI MIN:
- 8- ALL POST SHALL BE #2 DENSE PRESSURE TREATED GROUND CONTACT.
- 9- PRIMING & PAINTING SHALL BE DONE BY TRUSS MANUFACTURER.
- 10- MIN EDGE DISTANCE FOR BOLTS HOLES SHALL BE 3/4" MIN
- 11- MAX TRUSS SPACING SHALL NOT EXCEED 12'-0" OC.
- 12-THE DESIGNER DISCLAMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF POOR WORKMANSHIP, OR IMPROPER USE, AND ACCEPTS NO RESPONSIBIL TY OR EXERCISES NO CONTROL WITH REGARD TO FABRICATION, HANDLING, AND INSTALLATION OF TRUSSES.

NOTES:

1. PURLINS SHALL BE 2X6 #2 SYP (MAX SPACE @2'-0" O.C.)
2. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY & PERMANENT CONSTRUCTION BRACING.
3. ALL DEMINSIONS SHALL BE VERIFIED PRIOR TO FABRICATION.
4. ALL WELD PER AWS STANDARDS.
5. ALL STELL AND FABRICATION PER ASCI STANDARDS.
7. ITEM DEMINSIONS ARE TO BE MODIFIED FOR SHORTER TRUSS LENGTHS.
8. ALL FASTNERS SHALL BE INSTALLED PER MANUFACTURES SPECIFICATIONS.
9. TRUSS DESIGN CAN BE USED FOR TRUSS LENGTHS SHORTER THAN 50 FEET.
10. WELDING ELECTRODES SHALL BE E70XX
11. ALL WELDS SHALL BE IN ACCORDANCE WITH AWS REQUIRMENTS.
12. ALL POST SHALL BE #2 DENSE PRESSURE TREATED.

BILL OF MATERIALS

ITEM NO. ____	DESCRIPTION	MATERIAL (50 KSI)
A1	TOP CHORD	LL 2 X 2 X 3/16*
A2	BOTTOM CHORD	LL 2 X 2 X 3/16*
A3	VERTICAL CHORD	LL 2 X 2 X 3/16*
A4	VERTICAL CHORD	L 1 1/2 X 1 1/2 X 3/16
A5	TIE	L 2 X 2 X 3/16
A6	TIE	L 2 X 2 X 3/16
W1	WEB	L 1-1/4 X 1-1/4 X 3/16
W2	WEB	L 1-1/4 X 1-1/4 X 3/16
B1	BASE	LL 2 X 2 X 3/16*

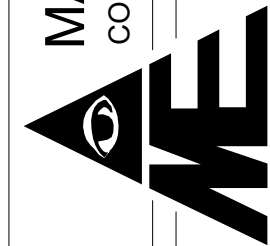
NOTE: LL * DENOTES DOUBLE ANGELS



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