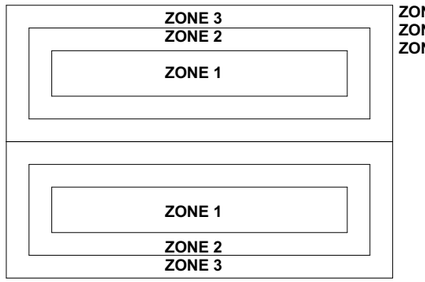


ZONE 1 +/- 19.74
ZONE 2 +/- 29.98
ZONE 3 +/- 41.75

WIND PRESSURE - COMPONENTS & CLADDING

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

DESIGN CRITERIA:

FLORIDA BUILDING CODE 2020 7TH ED.
DESIGN LOADS PER ASCE 7-16
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

POLE BARN SPECIFICATIONS

GABLE WIDTH (D-1): 24'
BUILDING LENGTH (D-2): 60'
EAVE HEIGHT (D-3): 16'
POLE SPACING: 12'
GABLE WIDTH LEAN TO (D-4): 18'
LENGTH OF LEAN TO (D-5): 60'
EAVE HEIGHT OF LEAN TO (D-6): 12'
GABLE WIDTH LEAN TO (D-7): 18'
LENGTH OF LEAN TO (D-8): 60'
EAVE HEIGHT OF LEAN TO (D-9): 12'
ROOF PITCH: 3:12
ROOF RISE LEAN TO: 1:12a
ROOF RISE LEAN TO: 1:12b
WALLS: OPEN
FLOOR: CONCRETE
ROOF METAL: 26 GA.
SIDE METAL: NONE
POST SIZE BARN: 8"X8" PT
POST SIZE LEAN TO: 6"X6" PT
FOOTING SIZE: 24"X48"
CONCRETE : 3,000 PSI

WIND EXPOSURE CATEGORY		
X B	☐ C	☐ D

MAIN BUILDING DIMENSIONS D-1		
BARN WIDTH (FT)	6"X6" POST	8"X8" POST
24	23'-11"	22'-8"

LEAN POST HEIGHT (D-6) SIZE CIRCLED OR LESS				OTHER
10'	12'	14'	16'	18'

LEAN POST HEIGHT (D-9) SIZE CIRCLED OR LESS				OTHER
10'	12'	14'	16'	

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

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

MAIN BLD ROOF PITCH			
3/12	4/14	5/12	6/12

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

POST SPACING (FT)		
☐ 8	☐ 10	☐ 12

LEAN BLD ROOF PITCH (a)			
1/12			

LEAN BLD ROOF PITCH (b)			
1/12			

METAL ROOF	
26 GA	29 GA

LEAN BUILDING DIMENSIONS D-4		
LEAN WIDTH (FT)	6"X6" POST	8"X8" POST
18	17'-6-1/2"	16'-8"

D-7		
LEAN WIDTH (FT)	6"X6" POST	8"X8" POST
18	17'-1"	16'-8"

Columbia County Building Department
Plans Reviewed for Code Compliance
State of Florida

T. BRENT WHITMAN
LICENSE No. 63178
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Tomas B Whitman
2022.10.07
09:35:46 -04'00'

DESIGNED TBW
DRAWN DVD
CHECKED TBW
APPROVED TBW
COLUMBIA COUNTY
JOB NO.: 352221589
DATE: JULY 2022

MADISON ENGINEERING, LLC
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERING
269 NE Ridge Loop
Madison, Florida 32340
Phone: (850) 973-2764
COA No.: 27216 www.madisonengineer.com

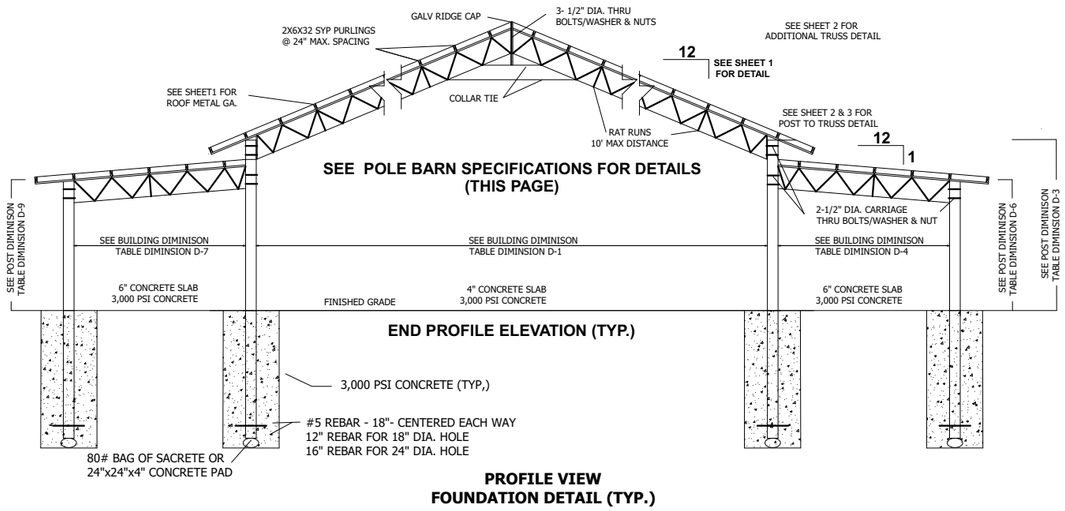
POLE BARN C - 24X60
ABT TRUSSES

Michael Hudson (24X60)
872 SW County Road 18, High Springs, FL 32643

VALID ONLY WITH DATED ORIGINAL SIGNATURE AND INK OR EMBOSSED SEAL

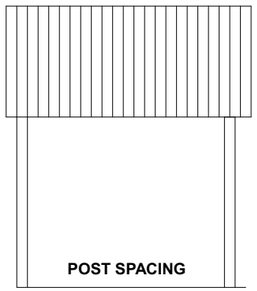
T. BRENT WHITMAN, P.E.
FL. P.E. REG. NO. 63178

SHEET NO.
1

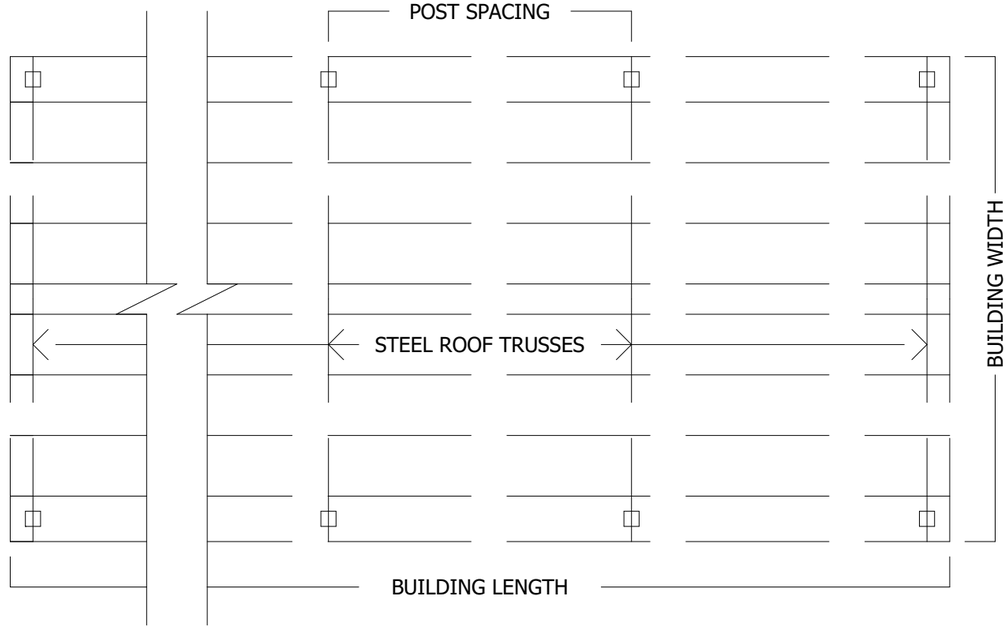


END PROFILE ELEVATION (TYP.)

PROFILE VIEW
FOUNDATION DETAIL (TYP.)



PROFILE VIEW
SIDE ELEVATION (TYP.)
SEE POLE BARN SPECTIFICATIONS FOR DETAILS



BARN PLAN VIEW (TYP.)

NOTES:
1. PURLINS SHALL BE 2-2X6 #2 SYP (MAX SPACE @2'-0" O.C.) CONNECTED WITH 2-1/2 DECK SCEWS 12 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 25 FEET.
10. CONCRETE WORK SHALL CONFORM TO 'BUILDING CODE REQUIRMENTS FOR REINFORCED CONCRETE' (ACI-318).
11. ALL CONCRETE SHALL BE 3000 PSI MIN. W/ WWF OR FIBER

T. BRENT WHITMAN LICENSE No. 63178 STATE OF FLORIDA PROFESSIONAL ENGINEER

Tomas B Whitman
2022.10.07 09:35:26 -04'00'

DESIGNED	TBW
DRAWN	DVD
CHECKED	TBW
APPROVED	TBW
JOB NO.: 35222189	
DATE: JULY 2022	

COLUMBIA COUNTY

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POLE BARN C - 24X60
ABT TRUSSES

T. BRENT WHITMAN, P.E.
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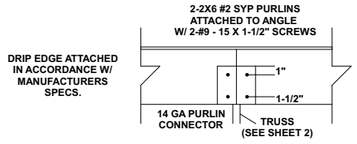
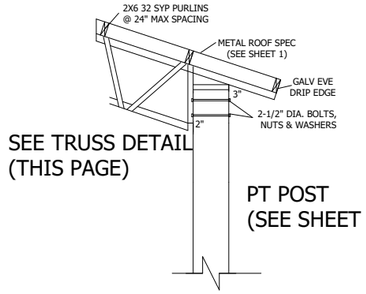
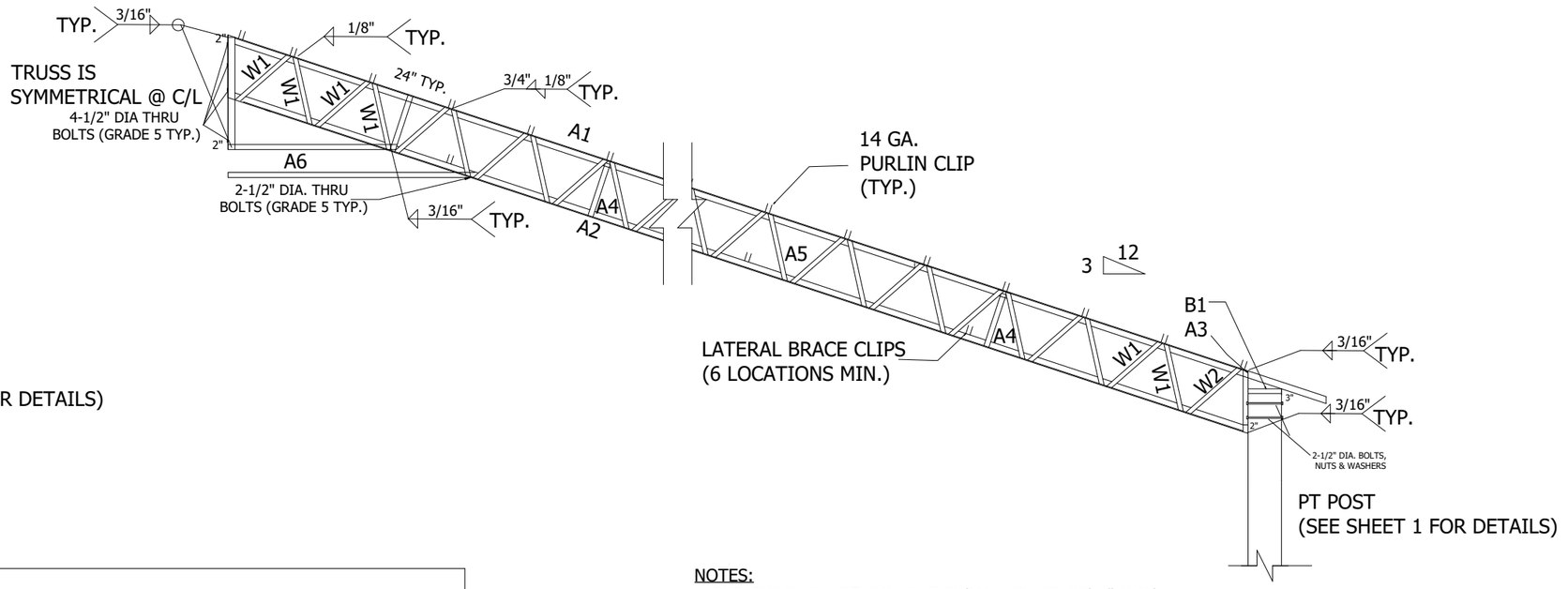
SHEET NO.
2



PURLIN CONNECTION DETAILS



POST TO TRUSS
DETAIL



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" UNO.
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 REGUARD TO FABRICATION, HANDLING, AND INSTALLATION OF TRUSSES.

BILL OF MATERIALS

ITEM NO.	DESCRIPTION		MATERIAL (50 KSI)
A1	TOP CHORD	LL 2 X 2 X 3/16*	ASTM 572
A2	BOTTOM CHORD	LL 2 X 2 X 3/16*	ASTM 572
A3	VERTICAL CHORD	LL 3 X 2 X 3/8*	ASTM 572
A4	VERTICAL CHORD	L 1 1/2 X 1 1/2 X 3/16	ASTM 572
A5	TIE	L 2 X 2 X 3/16	ASTM 572
A6	TIE	L 3 X 2 X 3/16	ASTM 572
W1	WEB	L 1-1/4 X 1-1/2 X 3/16	ASTM 572
W2	WEB	L 1-1/4 X 1-1/2 X 3/16	ASTM 572
B1	BASE	LL 2 X 2 X 3/16*	ASTM 572

NOTE: LL * DENOTES DOUBLE ANGELS

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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.

T. BRENT WHITMAN LICENSE No. 63178 STATE OF FLORIDA PROFESSIONAL ENGINEER

Tomas B Whitman
2022.10.07 09:34:57 -04'00'

DESIGNED TBW
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3