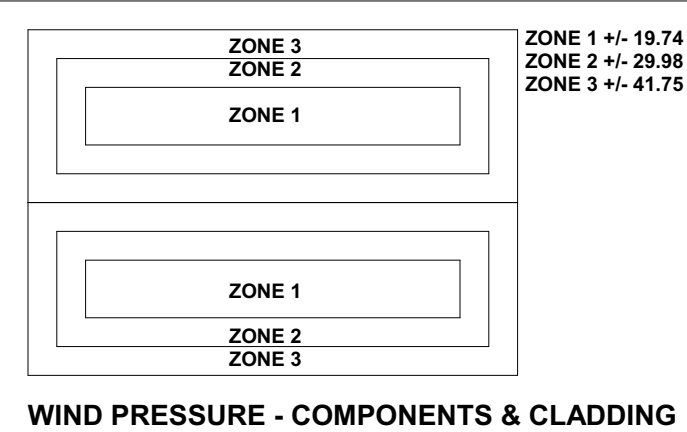




ULTIMATE & NOMINAL WIND SPEEDS	
ULTIMATE	NOMINAL
120	93
130	101
140	108
150	116
155	120
160	124

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			
☒ B	☐ C	☐ D	

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

MAIN POST HEIGHT (D-3) SIZE CIRCLED OR LESS					OTHER
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
18	17'-6-1/2"	16'-8"
D-7		
LEAN WIDTH (FT)	6"X6" POST	8"X8" POST
18	17'-1"	16'-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'		

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

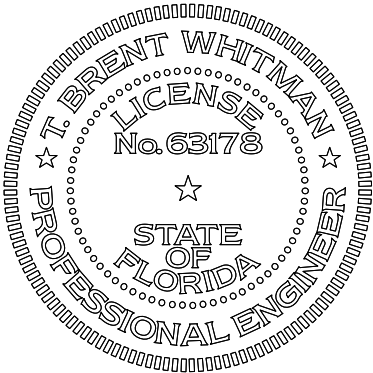
LEAN BLD ROOF PITCH (a)			
1/12			

LEAN BLD ROOF PITCH (b)			
1/12			

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

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

METAL ROOF	
26 GA	29 GA

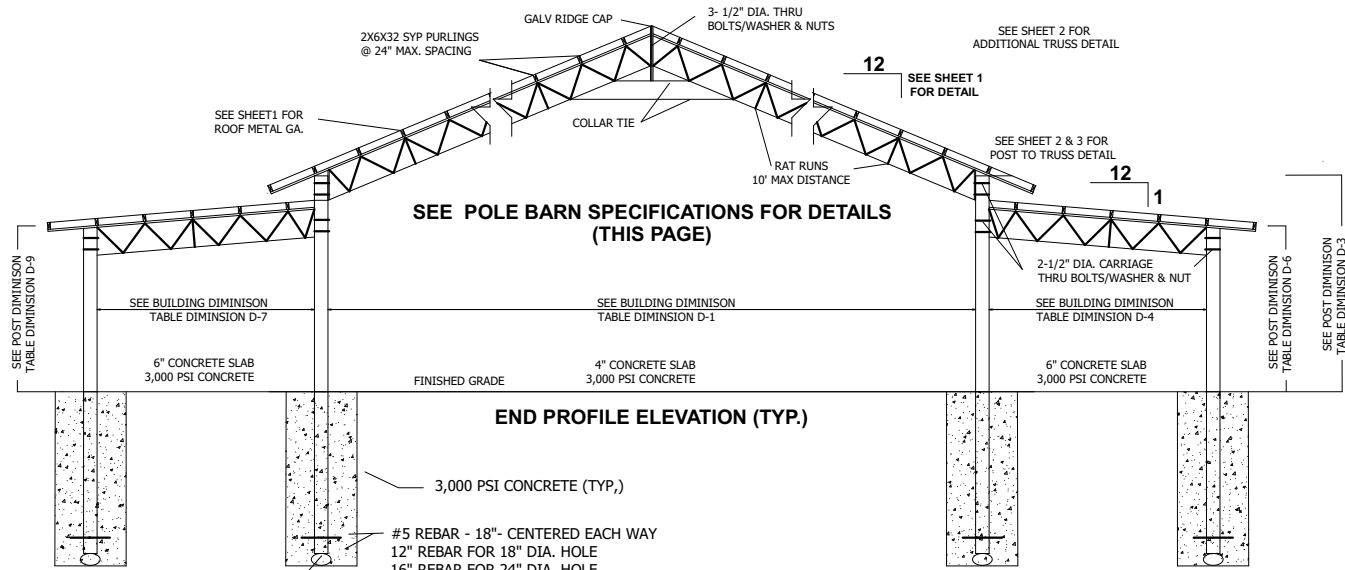


Tomas B Whitman
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MADISON ENGINEERING, LLC
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERING
260 NE Ridge Loop
Madison, Florida 32340
Phone 850.973.7864
COA No. 27216 www.madisonengineer.com

Michael Hudson (24X60)

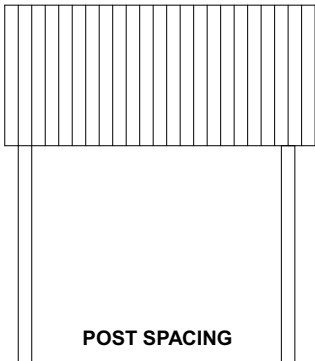
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FL. P.E. REG. NO. 63178
SHEET NO.



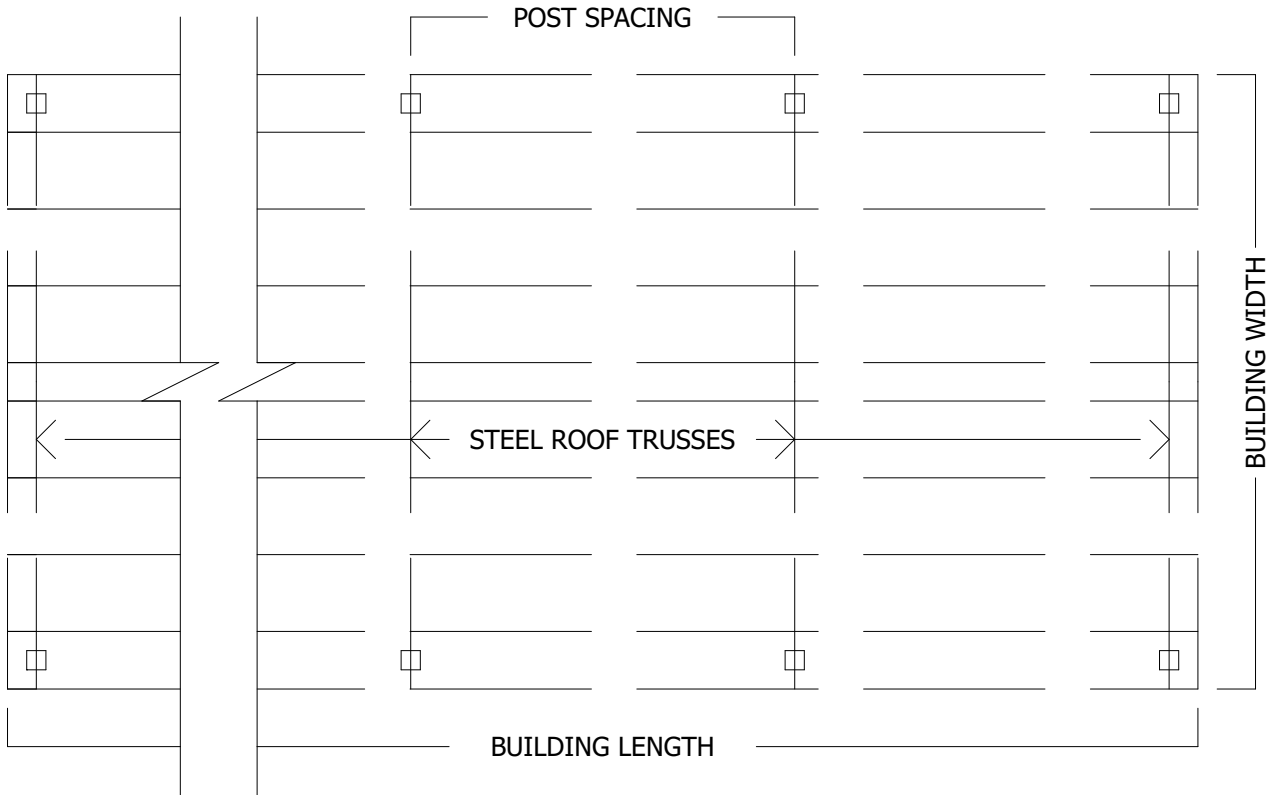
END PROFILE ELEVATION (TYP.)

3,000 PSI CONCRETE (TYP.)
#5 REBAR - 18"- CENTERED EACH WAY
12" REBAR FOR 18" DIA. HOLE
16" REBAR FOR 24" DIA. HOLE
80# BAG OF SACRETE OR
24"x24"x4" CONCRETE PAD

PROFILE VIEW
FOUNDATION DETAIL (TYP.)



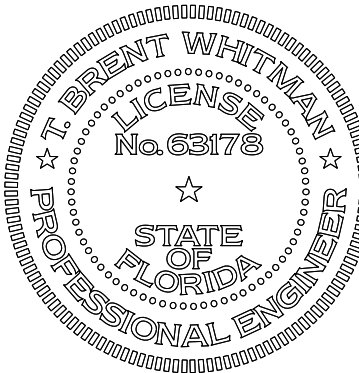
PROFILE VIEW
SIDE ELEVATION (TYP.)
SEE POLE BARN SPECIFICATIONS FOR DETAILS



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



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POLE BARN C - 24X60
ABT TRUSSES

Michael Hudson (24X60)

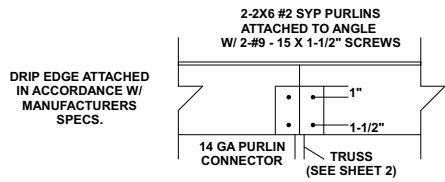
872 SW County Road 18, High Springs, FL 32643

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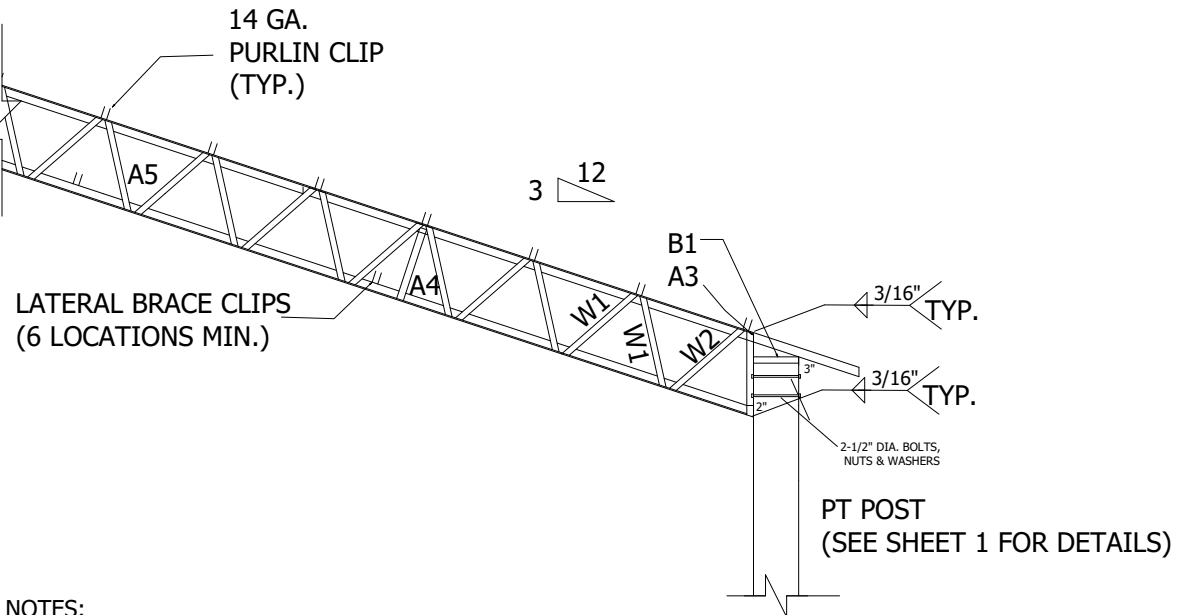
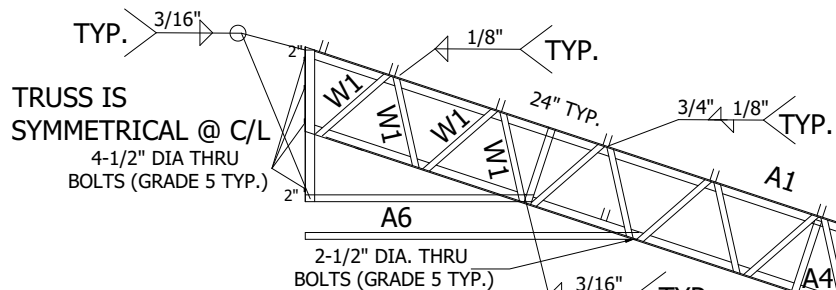
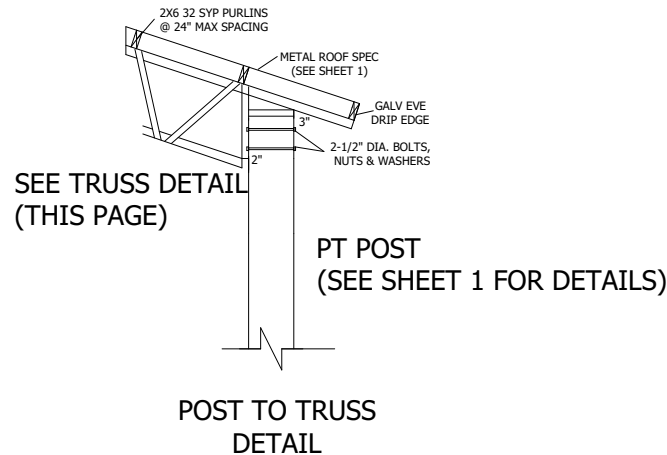
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SHEET NO.

2



PURLIN CONNECTION
DETAILS



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.

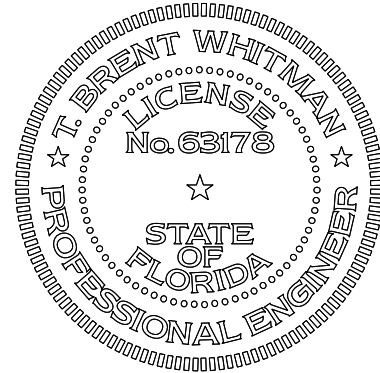
NOTES:

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 3 X 2 X 3/8*
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 3 X 2 X 3/16
W1	WEB	L 1-1/4 X 1-1/2 X 3/16
W2	WEB	L 1-1/4 X 1-1/2 X 3/16
B1	BASE	LL 2 X 2 X 3/16*

NOTE: LL * DENOTES DOUBLE ANGLES



Tomas B
Whitman
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T. BRENT WHITMAN, P.E.
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SHEET NO.

3

POLE BARN C - 24X60
ABT TRUSSES

Michael Hudson (24X60)

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COLUMBIA COUNTY