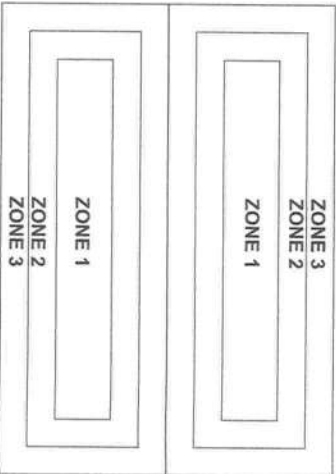




ZONE 1 +/- 19.74
ZONE 2 +/- 29.98
ZONE 3 +/- 41.75

WIND PRESSURE - COMPONENTS & CLADDING

WIND EXPOSURE CATEGORY

☒ A ☐ B ☐ C ☐ D

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 : 40'
BUILDING LENGTH : 48'
EAVE HEIGHT : 14'
POLE SPACING : 12'
ROOF PITCH : 3:12
WALLS : OPEN
FLOOR : DIRT
ROOF METAL : 29 GA.
SIDE METAL : NONE
POST SIZE : 6"X6"
FOOTING SIZE : 18"X48"
CONCRETE : 3,000 PSI

MAIN BUILDING DIMENSIONS

D-1

BARN WIDTH (FT)	6"X6" POST	8"X8" POST
50	-	48'-8"
40	39'-1"	38'-8"
38	37'-1"	36'-8"
36	35'-1"	34'-8"
34	33'-1"	32'-8"
32	31'-1"	30'-8"
30	29'-1"	28'-8"
28	27'-1"	26'-8"
26	25'-1"	24'-8"
24	23'-1"	22'-8"
22	21'-1"	20'-8"
20	19'-1"	18'-8"
18	17'-1"	16'-8"
16	15'-1"	14'-8"
14	13'-1"	12'-8"
12	11'-1"	10'-8"

MAIN POST HEIGHT (D-3)

SIZE CIRCLED OR LESS

10'	12'	14'	16'	20'
-----	-----	-----	-----	-----

POST SPACING D-2 (FT)

☐ 8	☐ 10	☒ 12
----------------------------	-----------------------------	--

POST SIZE

☒ 6"X6"	☐ 8"X8"	☐ 10"X10"
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POST FOOTING SIZE

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

ROOF PITCH

3/12	4/12	5/12	6/12
------	------	------	------

METAL ROOF

26 GA	29 GA
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T. Brent Whitman
05-24-2023



Thomas B Whitman
2023.05.24
20:19:25 -04'00'

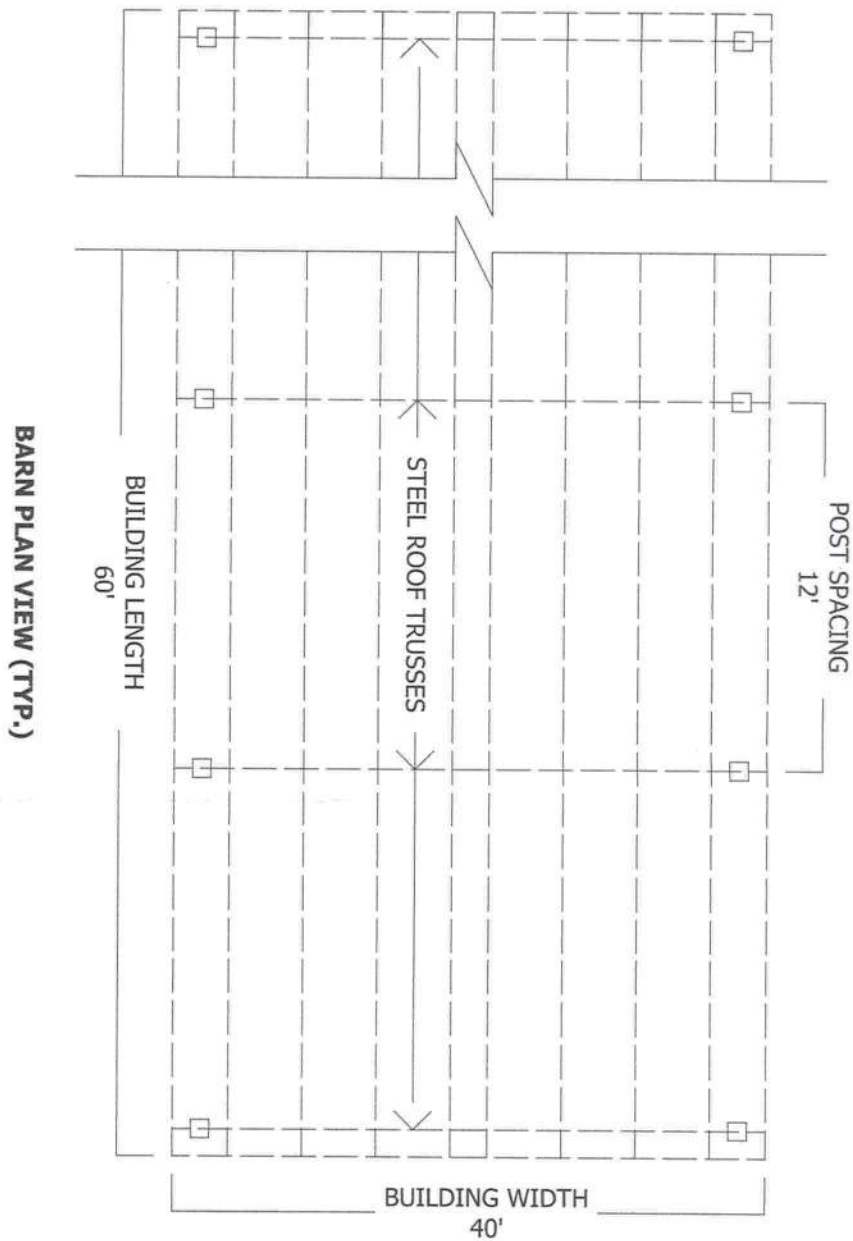
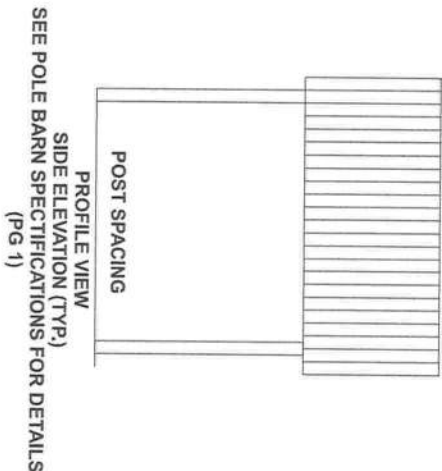
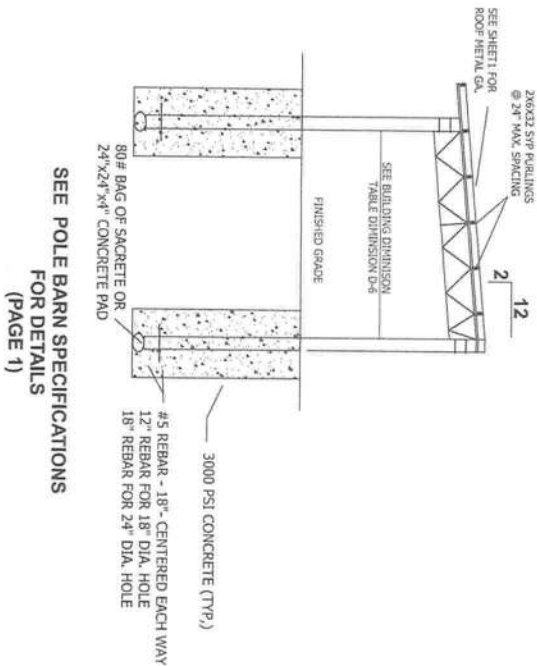
MADISON ENGINEERING, LLC
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERING
269 NE Ridge Loop
Madison, Florida 32340
Phone 850.973.7864
COA No.: 27216 www.madisonengineer.com

DESIGNED	TBW
DRAWN	DVD
CHECKED	TBW
APPROVED	TBW
JOB NO.:	35223183
DATE:	MAY 2023

COLUMBIA COUNTY

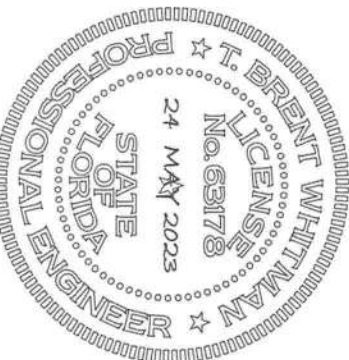
STEVE TORNELLO (40X48)

2710 SW WILSON SPRINGS RD, FORT WHITE, FL 32038



- 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 DEMINIONS SHALL BE VERIFIED PRIOR TO FABRICATION.
 4. ALL WELD PER AWS STANDARDS.
 5. ALL STEEL AND FABRICATION PER ASCI STANDARDS.
 7. ITEM DEMINIONS ARE TO BE MODIFIED FOR SHORTER TRUSS LENGTHS.
 8. ALL FASTENERS 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 REQUIREMENTS FOR REINFORCED CONCRETE' (ACI-318).
 11. ALL CONCRETE SHALL BE 3000 PSI MIN. W/ WWF OR FIBER
 12. FL PRODUCT APPROVAL CODE METAL FL-12725-R1

T. Brent Whitman
05.24.2023



Tomas B Whitman
2023.05.24
20:19:55 -04'00'

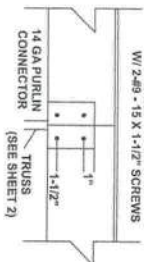
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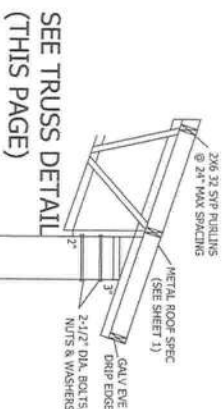
POLE BARN A - 40 X 48
ABT TRUSSES
STEVE TORNELLO (40X48)
2710 SW WILSON SPRINGS RD, FORT WHITE, FL 32038

T. BRENT WHITMAN, P.E.
05.24.2023 / 05.24.2023
SHEET NO.
2

2X6 #2 SYP PURLIN
ATTACHED TO ANGLE
W/ 2-#8 - 15 X 1-1/2" SCREWS
DRIP EDGE ATTACHED
IN ACCORDANCE W/
MANUFACTURERS
SPECS.

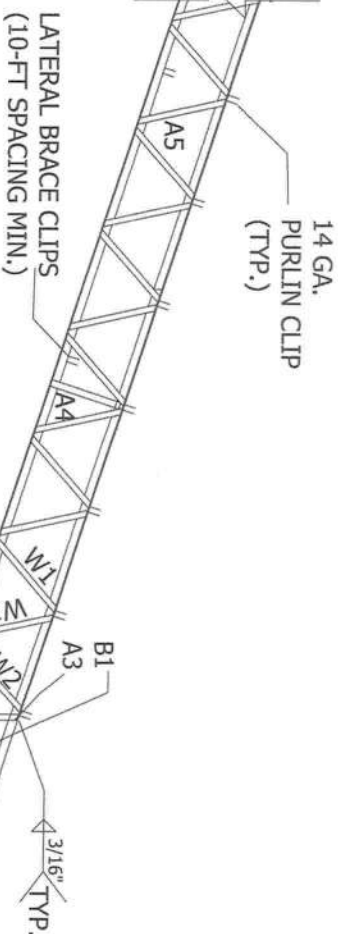
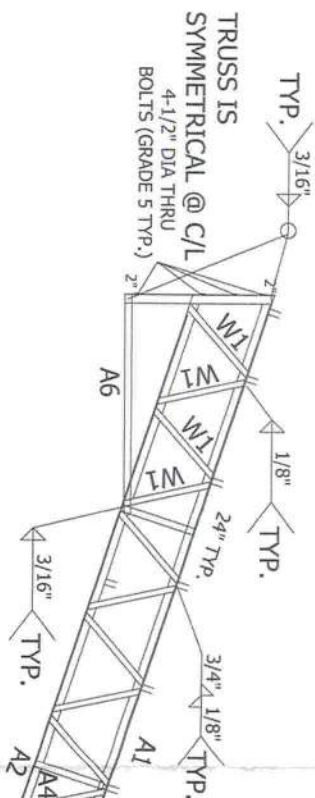


PURLIN CONNECTION
DETAILS



PT POST
(SEE SHEET 1 FOR DETAILS)

POST TO TRUSS
DETAIL



PT POST
(SEE SHEET 1 FOR 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 DISCLAIMS 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 DEMINIONS SHALL BE VERIFIED PRIOR TO FABRICATION.
4. ALL WELD PER AWS STANDARDS.
5. ALL STEEL AND FABRICATION PER ASCI STANDARDS.
7. ITEM DEMINIONS 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 WEILDS SHALL BE IN ACCORDANCE WITH AWS REQUIREMENTS.
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 3/16*
A4	VERTICAL CHORD	LL 1 1/2 X 1 1/2 X 3/16
A5	TIE	LL 2 X 2 X 3/16
A6	TIE	LL 2 X 2 X 3/16
W1	WEB	LL 1-1/4 X 1-1/4 X 3/16
W2	WEB	LL 1-1/4 X 1-1/4 X 3/16
B1	BASE	LL 2 X 2 X 3/16*

NOTE: LL * DENOTES DOUBLE ANGELS

T. Brent Whitman
06-24-2023



Thomas B Whitman
2023.05.24
20:20:08 -04'00'