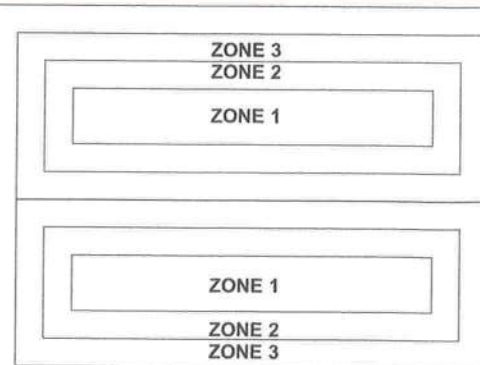




WIND PRESSURE - COMPONENTS & CLADDING

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

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

WIND EXPOSURE CATEGORY

☒ B ☐ C ☐ D

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)				OTHER
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"

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

T. Brent Whitman
05-24-2023



Tomas B. Whitman, P.E.
MADISON ENGINEERING
This has been electronically signed and
sealed by TOMAS B. WHITMAN, P.E.
using a Digital Signature and Seal.
Printed copies of this document are not
considered signed and sealed and the
signature must be verified on an
electronic device.

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

DESIGNED TBW
DRAWN DVO
CHECKED TBW
APPROVED TBW
JOB NO: 25221183
DATE: MAY 2023

MADISON ENGINEERING, LLC
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERING
360 NE Ridge Lane
Madison, Florida 32340
Phone: 850.973.7884
COA No.: 27216 www.madisonengineer.com

STEVE TORNELLO (40X48)
2710 SW WILSON SPRINGS RD, FORT WHITE, FL 32038

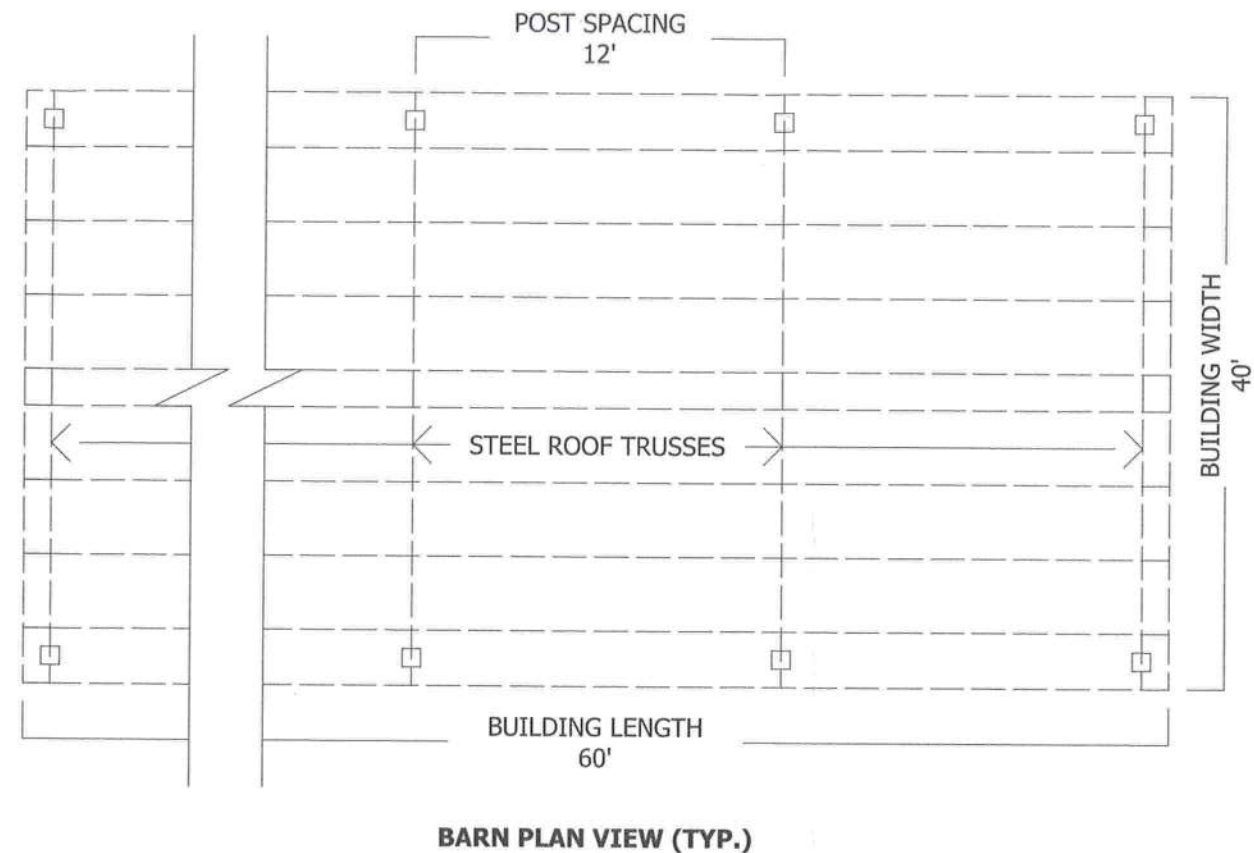
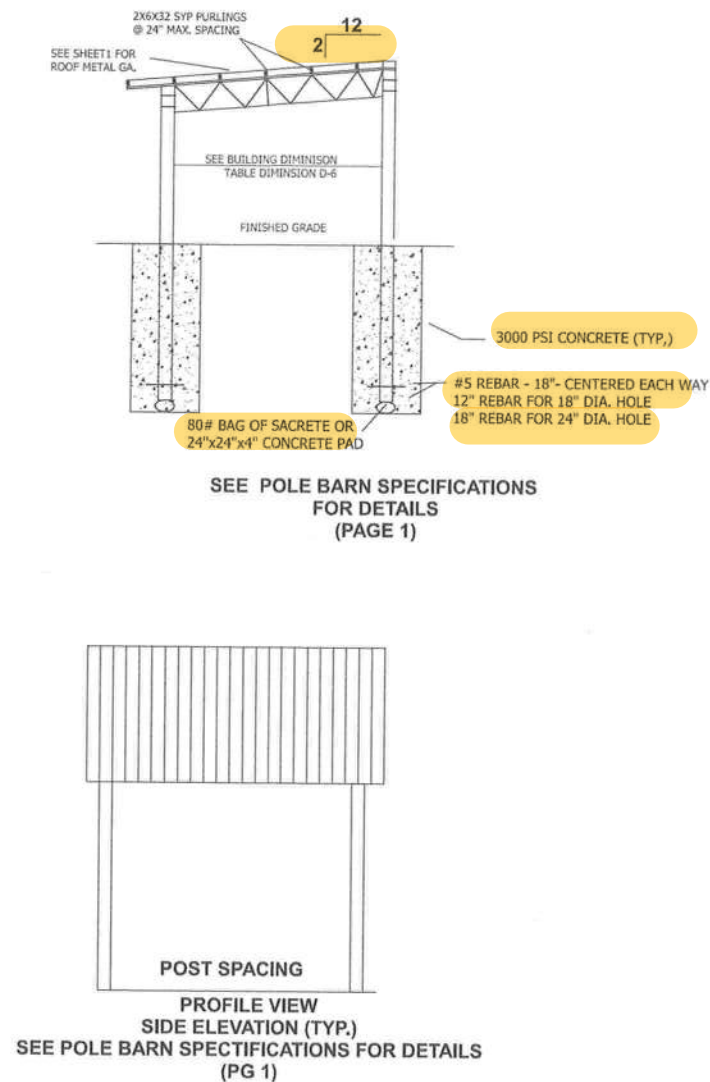
POLE BARN A - 40 X 48
ART TRUSSES

© COPYRIGHT 2022 ME

FILED ONLY WITH LATEST
VERSION. SIGN OR SEAL
BUT DO NOT IMPRINT SEAL

T. BRENT WHITMAN, P.E.
FL P.E. #63178 / GA P.E. #031609

SHEET NO.
1



NOTES:

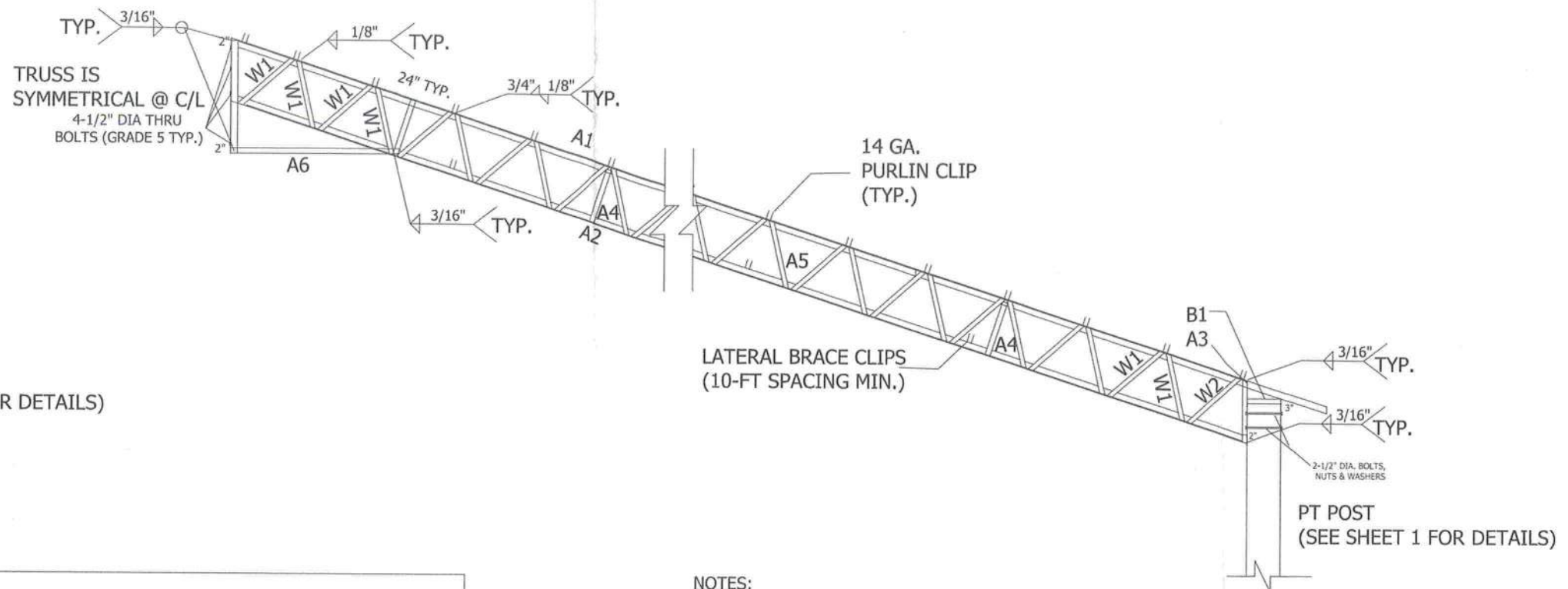
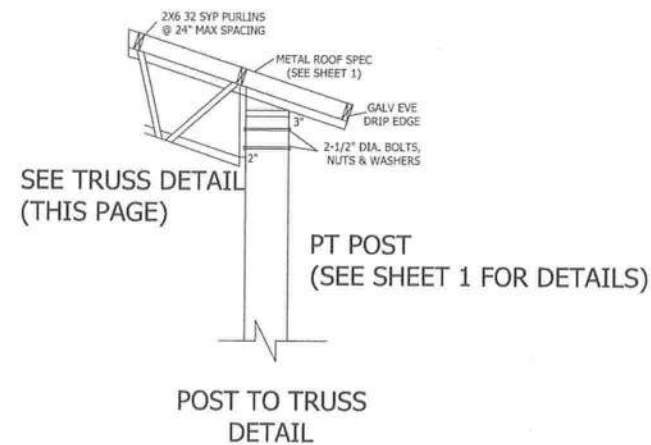
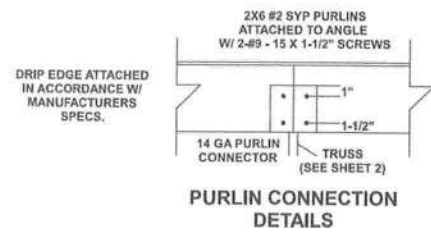
1. PURLINS SHALL BE 2X6 #2 SYP (MAX SPACE @2'-0" O.C.)
2. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY & PERMANENT CONSTRUCTION BRACING.
3. ALL DEMINSIONS SHALL BE VERIFIED PRIOR TO FABRICATION.
4. ALL WELD PER AWS STANDARDS.
5. ALL STELL AND FABRICATION PER ASCI STANDARDS.
7. ITEM DEMINSIONS ARE TO BE MODIFIED FOR SHORTER TRUSS LENGTHS.
8. ALL FASTNERS SHALL BE INSTALLED PER MANUFACTURES SPECIFICATIONS.
9. TRUSS DESIGN CAN BE USED FOR TRUSS LENGTHS SHORTER THAN 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
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'

DESIGNED	TBW	MADISON ENGINEERING, LLC
DRAWN	DVD	CONSULTING CIVIL & ENVIRONMENTAL ENGINEERING
CHECKED	TBW	300 NE Bluff Lane Madison, Florida 32340 Phone 850.973.7864 COA No.: 27216 www.madisonengineer.com
APPROVED	TBW	STEVE TORNELLO (40X48)
JOB NO.	35223183	2710 SW WILSON SPRINGS RD, FORT WHITE, FL 32038
DATE	MAY 2023	



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 STELL 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 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 3/16*
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 ANGLES

T. Brent Whitman
08-24-2023



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

MADISON ENGINEERING, LLC
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERING



STEVE TORNELLO (40X48)

POLE BARN A - 40 X 48
ART TRUSSES

© COPYRIGHT 2023 ME

T. BRENT WHITMAN, P.E.
FL P.E. #63178 / GA P.E. #238529

SHEET NO.

3