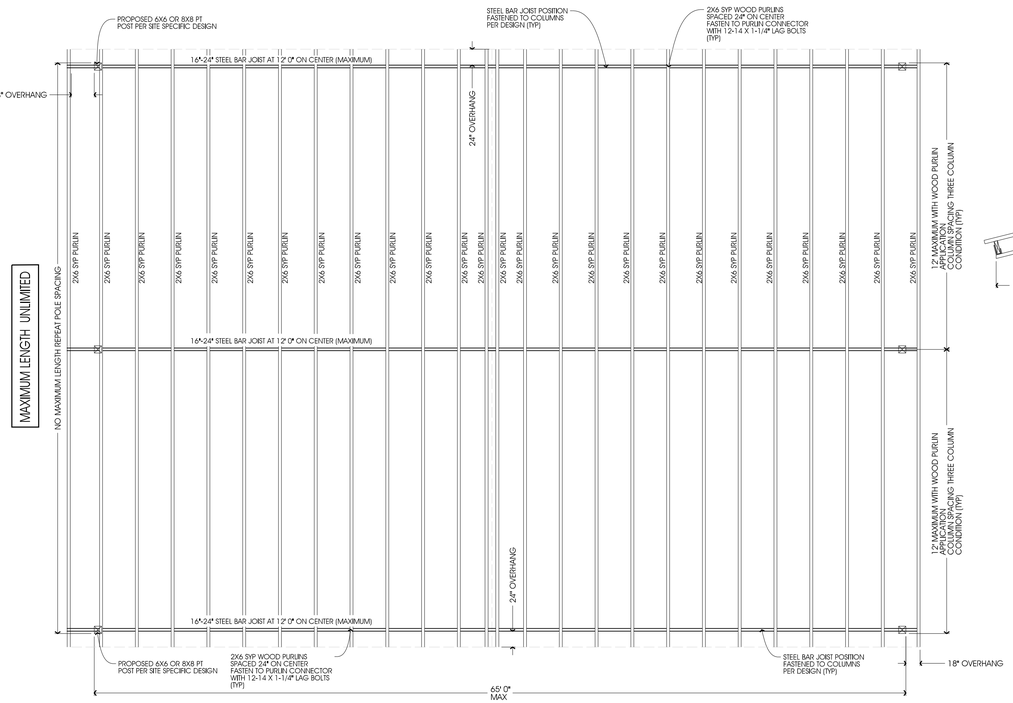
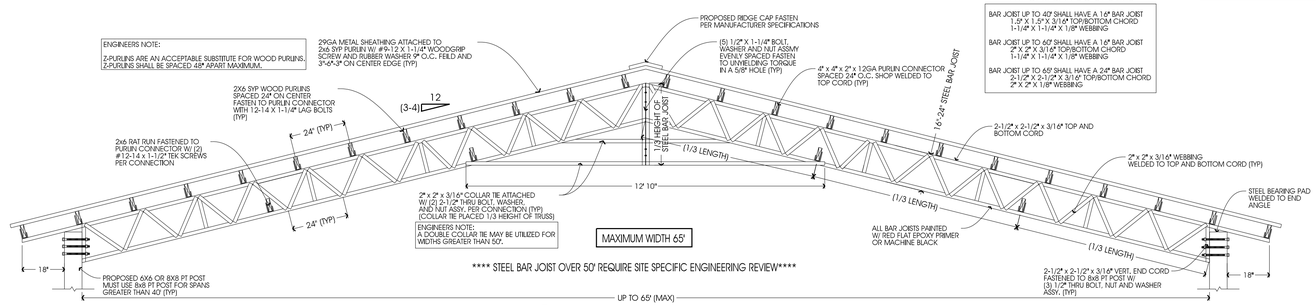


A S-1 POLE BARN PLAN VIEW
NOT TO SCALE

NOTE TO INSTALLER

1. INSTALLER SHALL ADD LATERAL BRACING DURING THE ERECTION PROCESS TO PREVENT BAR JOIST MOVEMENT.



**** STEEL BAR JOIST OVER 50' REQUIRE SITE SPECIFIC ENGINEERING REVIEW****

B S-1 POLE BARN SECTION VIEW
NOT TO SCALE

TYPICAL BAR JOIST SIZES

BAR JOIST UP TO 40' SHALL HAVE A 1.6# BAR JOIST 1.5" X 1.5" X 3/16" TOP/BOTTOM CHORD 1-1/4" X 1-1/4" X 1/8" WEBBING

BAR JOIST UP TO 65' SHALL HAVE A 1.9# BAR JOIST 2" X 2" X 3/16" TOP/BOTTOM CHORD 1-1/4" X 1-1/4" X 1/8" WEBBING

BAR JOIST UP TO 65' SHALL HAVE A 2.6# BAR JOIST 2-1/2" X 2-1/2" X 3/16" TOP/BOTTOM CHORD 2" X 2" X 1/8" WEBBING

ENGINEERS NOTE:
STEEL BAR JOIST FASTEN TO PT POST WITH (2) 1/2" THROUGH BOLT, NUT WASHER ASSEMBLY INTO POST FOR UP TO 40' WIDE.

(3) 1/2" THROUGH BOLT, NUT, AND WASHER ASSEMBLY SHALL BE INSTALLED FOR WIDTHS GREATER THAN 40' WIDE.

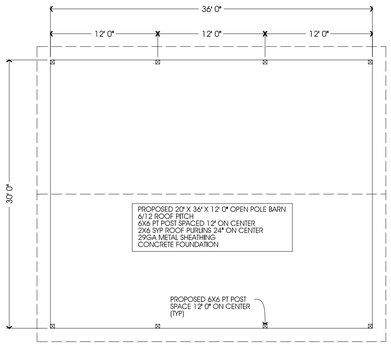
(4) 6" LAG BOLTS IS AN ACCEPTABLE ALTERNATIVE.

COMPONENTS AND CLADDING (exp=B, gcpi=+/-0.00 (Opens)						
VELOCITY ULTIMATE	PRESSURE (PSF)					
	ROOF			WALLS		
	1	2	3	4(+) AVG NORMAL	5(-) AVG PARALLEL	
140 MPH	-17.6	-47.8	-54.3	+19.4	-25.1	+19.4 / -25.1
150 MPH	-19.9	-54.9	-62.3	+21.2	-28.9	+21.2 / -28.9
160 MPH	-22.7	-62.4	-70.9	+24.1	-32.8	+24.1 / -32.8

COMPONENTS AND CLADDING (exp=B, gcpi=+/-0.18 (Enclosed))						
VELOCITY ULTIMATE	PRESSURE (PSF)					
	ROOF			WALLS		
	1	2	3	4(+) AVG NORMAL	5(-) AVG PARALLEL	
140 MPH	-21.3	-51.7	-58.2	+22.1	-28.7	+22.1 / -28.7
150 MPH	-24.4	-59.3	-66.8	+25.3	-32.9	+25.3 / -32.9
160 MPH	-27.8	-67.5	-76.0	+28.9	-37.4	+28.9 / -37.4

COMPONENTS AND CLADDING (exp=B, gcpi=+/-0.55 (Partially Enclosed))						
VELOCITY ULTIMATE	PRESSURE (PSF)					
	ROOF			WALLS		
	1	2	3	4(+) AVG NORMAL	5(-) AVG PARALLEL	
140 MPH	+29.3	-59.7	-66.3	+30.2	-36.7	+30.2 / -36.7
150 MPH	+33.7	-68.6	-76.1	+34.7	-42.1	+34.7 / -42.1
160 MPH	+38.3	-78.0	-86.5	+39.4	-47.9	+39.4 / -47.9

all figures updated as of 8/14/2025 utilizing SKYCIVIL



1 S-1 SITE SPECIFIC DESIGN
NOT TO SCALE

GENERAL NOTES

1. ALL CONCRETE WORK SHALL BE 3,000 P.S.I. AT 28 DAYS.
2. MINIMUM SOIL BEARING SHALL BE ASSUMED AT 2,000 P.S.F.
3. ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH THE FLA. BLDG. CODE 2023 8TH EDITION AND ASCE 7-22 WIND CODES FOR AN ULTIMATE WIND SPEED OF 140 MPH AND GREATER. THESE PLANS INCLUDE DESIGN FOR ALL WIND SPEEDS UP TO AND INCLUDING 160 MPH ULTIMATE WIND SPEED.
4. ALL SIDING AND ROOFING TO MINIMUM OF 29 GAUGE ATTACHED TO THE COLUMNS AS SHOWN AND CONSIDERED TO BE A MIN. OF 3 SPAN.
5. FOR ZONE LOCATIONS SEE ASCE 7-22. THE VALUE OF "a" SHALL BE A MINIMUM OF 3'-0". FOR ZONE LOADING SEE COMPONENTS AND CLADDING LOADING CHARTS THIS SHEET.
6. DESIGN LOADINGS:
DEAD LOAD = 5 PSF
ROOF LIVE LOAD = 20 PSF
WIND LOAD = PER TABLE
7. DOOR AND WINDOW DATA: SEE TABLE THIS SHEET.
8. ALL WINDOWS AND MAN DOORS MAY USE 1/4"X1" LONG TEK SCREWS IN LIEU OF THE WOOD SCREWS WHEN CONNECTING THE UNITS TO METAL FRAME. FOLLOW THE MANUFACTURERS SPECIFICATIONS FOR LOCATING CONNECTORS.
9. TYPE OF CONSTRUCTION TYPE II-B
BUILDING CATEGORY III
10. ADDITIONAL BRACES (REQUIRED ONLY REQUIRED WITH WIND SPEEDS GREATER THAN OR EQUAL TO 150 MPH OR AS CALLED OUT ON PLANS.
11. ALL WELDS ARE CONTINUOUS WELDS DONE AT THE FACTORY.
12. MANUFACTURER IS NOT RESPONSIBLE FOR FAILURES OF OR INDUCED BY MATERIALS NOT PROVIDED BY MANUFACTURER: FRAMEWORK, METAL BEINGS, METAL ROOFING, FASTENERS, DOORS, WINDOWS, SEALANTS, CLOSURES AND OTHER METAL BUILDING ACCESSORIES. THE LIMITED WARRANTY ALSO DOES NOT COVER USING THE MATERIALS IN A MANNER THAT THEY ARE NOT DESIGNED OR ENGINEERED FOR. ADDITIONALLY UNCONTROLLABLE EVENTS "ACT OF GOD" SUCH AS TORNADOES, FLOODS OR HURRICANES ARE OUTSIDE THE DESIGN PARAMETERS OF THE LIMITED WARRANTY.

STRUCTURAL NOTES:

1. MATERIALS SHALL CONFORM TO STEEL ASTM 513
2. ALL STEEL SHALL BE SO KSI IN ACCORDANCE WITH CURRENT AISC MANUAL.
3. WELDING ELECTRODES TYPE E70XX
4. ALL WELDING SHALL BE IN ACCORDANCE WITH CURRENT AWWA REQUIREMENTS
5. ALL WELDING SHALL BE DONE BY A CERTIFIED WELDER.
6. BOLTS SHAT BE ASTM A325 W/ WASHERS AND NUTS (TYP).
7. WELD STRENGTH 70 KSI MIN.
8. ALL POST SHALL BE 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" O.C. UNLESS NOTED OTHERWISE.
12. THE DESIGNER DISCLAIMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF POOR WORKMANSHIP, OR IMPROPER USE, AND ACCEPTS NO RESPONSIBILITY OR EXERCISES NO CONTROL WITH REGARD TO FABRICATION, HANDLING, AND INSTALLATION OF TRUSSES

STEEL NOTE

THE DESIGN, FABRICATION, AND CREATION OF STRUCTURAL STEEL ELEMENTS SHALL BE IN ACCORDANCE WITH AISC 360 AND AISC CODE OF STANDARD PRACTICE, 2023.

FREEDOM MANUFACTURING & ROOFING SUPPLY

CLIENT INFORMATION:

POLE BARN PLAN PREPARED FOR:

PROPOSED MICHAEL AND SHANNON BISHOP
LAKE CITY, FL 32024

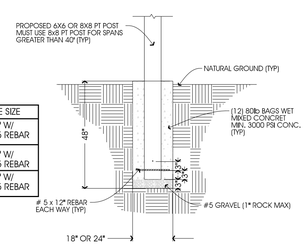
PROPOSED 20' X 36' X 12' 0" OPEN POLE BARN
6/12 ROOF PITCH
6X6 PT POST SPACED 12' ON CENTER
2X6 SYP ROOF PURLINS 24" ON CENTER
29GA METAL SHEATHING
CONCRETE FOUNDATION

DESIGN STATEMENT:

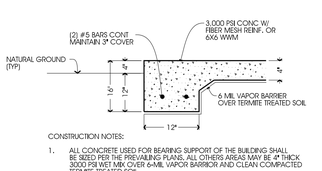
THESE PLANS WERE DESIGNED FOLLOWING THE 2023 8TH EDITION FLORIDA BUILDING CODE AND ASCE 7-22. INCLUDING CHAPTER 16 ON STRUCTURAL DESIGN. AN ULTIMATE WIND SPEED OF 140 MPH, (3 SECOND GUST) IN WIND EXPOSURE CATEGORY "B". THIS STRUCTURE HAS BEEN DESIGNED AS RISK CATEGORY II.

SHEET NO.
S-1
DATE: 11/6/2025

BAR JOIST SIZE	POST BASE SIZE
UP TO 30'	18" x 48" W/ 12" MIN. #5 REBAR
30' 1" - 40' 0"	24" x 48" W/ 16" MIN. #5 REBAR
40' 1" - 60' 0"	36" x 48" W/ 24" MIN. #5 REBAR



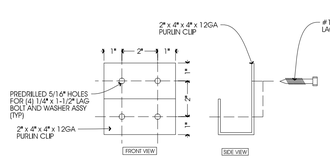
C S-1 POST AND FOOTING DETAIL
NOT TO SCALE



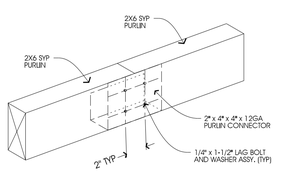
CONSTRUCTION NOTES:

1. ALL CONCRETE USED FOR BEARING SUPPORT OF THE BUILDING SHALL BE SIZED PER THE PRISUMING PLANS. ALL OTHERS AREAS MAY BE 4" THICK 3000 PSI WET MIX OVER 6-MIL VAPOR BARRIOR AND CLEAN COMPACTED TERMITE TREATED SOIL.

D S-1 CONCRETE FOUNDATION (OPTIONAL)
NOT TO SCALE



E S-1 WOOD PURLIN CLIP
NOT TO SCALE



F S-1 WOOD PURLIN BUTT JOINT
NOT TO SCALE

OVERALL REVISION DATE
AUGUST 14, 2025

ENGINEERING • PLANNING • PERMITTING

REVISIONS:

DESCRIPTION	DATE	BY

EPI

ENGINEERED PERMITS, INC.
311 SOUTH WOODLAND BLVD.
SUITE A
DELAND, FL 32720
PHONE: 386-734-0830
FAX: 386-734-8226
CERT NO. 29298
EMAIL: ep@epieng.net

PROJECT: FREEDOM MANUFACTURING AND ROOFING SUPPLIES LLC

SHEET TITLE: STEEL BAR JOIST OPEN BUILDING

Michael J Wojtuniak

Digitally signed by Michael J Wojtuniak
Date: 2025.11.06 12:18:34 -05'00'

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY MICHAEL J. WOJTUNIAK, P.E. ON 11/6/2025 USING A SHA AUTHENTICATION CODE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES. UNLESS THE RAISED SEAL HAS BEEN UTILIZED. *