

UNINHABITED UTILITY BARN SHED UP TO 12' WIDE x UP TO 24' LONG

PTB, TB700, TB600

STRUCTURAL NOTES:

1. **BUILDING CODE:** 2015 IBC & IRC, 2018 IBC & IRC

2. **DESIGN LOADING:**

A. **ROOF LOADS**

1. UNIFORM ROOF (SNOW): 20 PSF
 - A. SNOW EXPOSURE FACTOR, C_e : 1.0
 - B. SNOW IMPORTANCE FACTOR, I_s : 1.0
 - C. THERMAL FACTOR C_t : 1.2
2. DEAD LOAD: 10 PSF

B. **WIND LOADS**

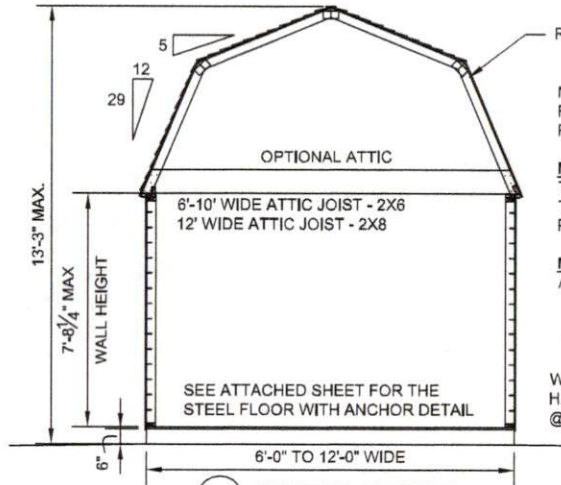
1. BASIC WIND SPEED, v_{ult} : 115 MPH
2. EXPOSURE: C
3. INTERNAL PRESSURE COEFFICIENT G_{Cpi} : ± 0.18

C. **SEISMIC DESIGN**

1. IMPORTANCE FACTOR: 1.0
2. SPECTRAL RESPONSE ACCELERATIONS: $S_s = 0.415$
 $S_1 = 0.14$
3. SITE CLASS: D
4. SITE COEFFICIENTS: $S_{DS} = 0.44$
 $S_{D1} = 0.23$
5. SEISMIC DESIGN CATEGORY: C

LUMBER:

1. ALL LUMBER SHALL BE SPRUCE PINE-FIR STUD GRADE (U.O.N.).
2. REFER TO THE TRUSS DESIGN FOR DESIGN INFORMATION.



1 BUILDING SECTION
 SCALE: N.T.S.

REFER TO TRUSS DESIGN

NAILING:
 REFER TO SHEET 2 FOR WALL AND ROOF SHEATHING NAILING.

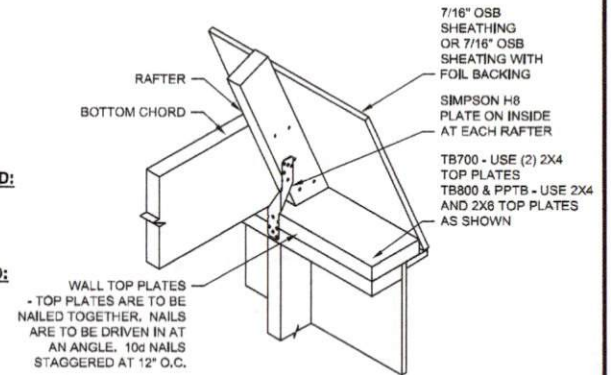
MAX WALL HEIGHT FOR EACH SHED:

- TB600 - 5'-8 1/4" (68 1/4")
- TB700 - 6'-8 1/4" (80 1/4")
- PTB - 7'-8 1/4" (92 1/4")

MAX ROOF SLOPE FOR EACH SHED:

ALL - 29:12

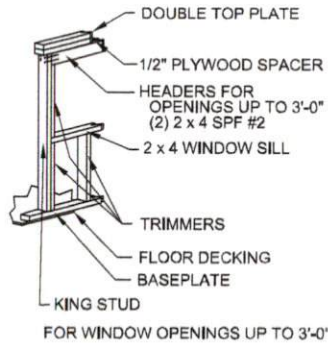
WALL FRAMING TO BE 2X4
 H.F. STUD GRADE OR BETTER
 @ 16" OC.



2 TRUSS TO WALL CONNECTION DETAIL
 SCALE: N.T.S.

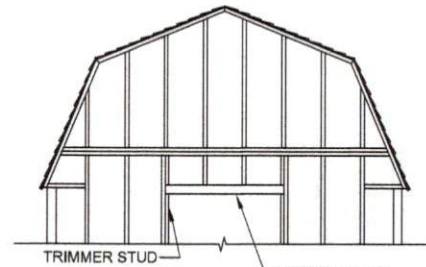
HEADER NAILING:
 HEADER TO STUD - 4-16d END NAIL
 DOUBLED HEADER
 - 16d @ 16" STAGGERED FACE NAIL

STAMPED FOR SUPERSTRUCTURE AND BASE ONLY; NOT FOR ANCHORAGE TO GROUND

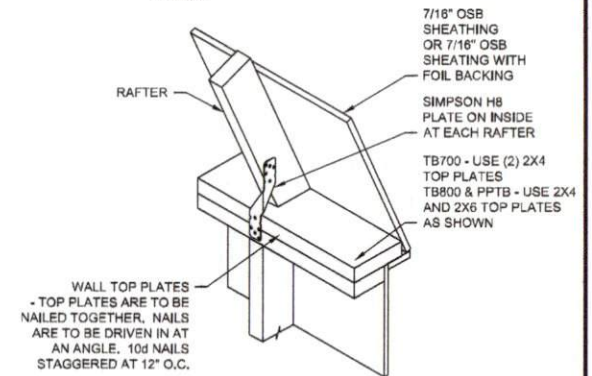


2A WINDOW HEADER DETAIL FOR SIDE WALLS
 SCALE: N.T.S.

SIDEWALL DOORS NOT AVAILABLE ON THIS MODEL



3 HEADER DETAIL FOR END WALLS
 SCALE: N.T.S.



5 TRUSS TO WALL CONNECTION DETAIL
 SCALE: N.T.S.



Order # _____
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 Building Size: WIDTH - LENGTH - HEIGHT - SQ. FT. AREA

P.O. # _____
 Drawn By: SJ
 Date: 1/21/19
 Checked By: _____
 Date: _____
 Scale: N.T.S.

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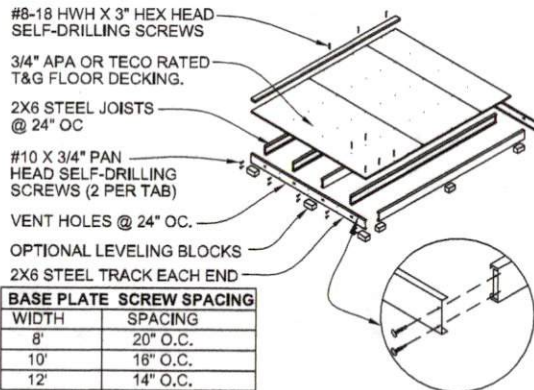


TITLE

BUILDING SECTIONS
 HEADER FRAMING DETAILS
 115 MPH, EXP. C

DRAWING NO. 610-PTB-TB600-01
 REV. LEVEL 01
 SHEET 1
 PAGE 1 OF 3

3/8 SMART SIDE NAILING REQUIREMENTS

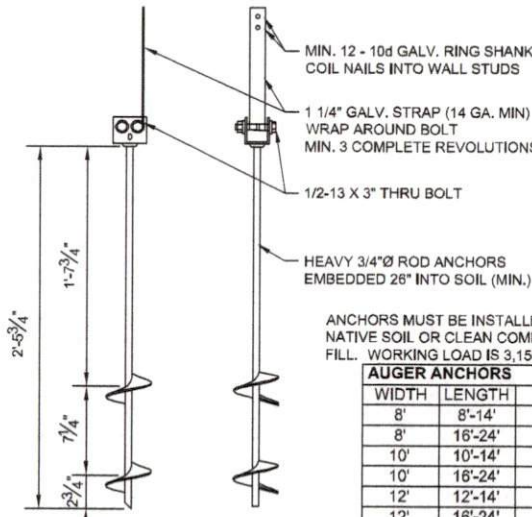


BASE PLATE SCREW SPACING	
WIDTH	SPACING
8'	20" O.C.
10'	16" O.C.
12'	14" O.C.

- STEEL SHED FOUNDATION:
600T125-054 - 16 GAUGE STEEL TRACKS G140 ZINC COATED
600S150-054 - 16 GAUGE STEEL JOISTS G140 ZINC COATED @ 24" O.C.
(SUPPLIER: QUAIL RUN (JOIST: 600S137-054 / TRACK: 600T150-054) ICC ER-4943P.
- 3/4" APA OR TECO RATED TONGUE AND GROOVE FLOOR DECKING. 24" MAX PANEL SPAN.
- FASTEN FLOOR DECKING TO JOIST & TRACKS USING #8 x 1-5/8" ZINC PLATED SCREWS @ 12" O.C. NO BLOCKING REQUIRED. ALL EDGES SHALL LIE ON FLOOR JOISTS. STAGGER PANEL LAYOUT PER APA CONDITION 1.
- FASTEN SOLE PLATE THROUGH FLOOR DECKING INTO JOISTS OR TRACKS WITH #8-18 HWH X 3" GALVANIZED SELF-DRILLING SCREWS. REFERENCE SPACING CHART.
- ALLOWABLE FLOOR LIVE LOAD: 75 PSF FOR STEEL JOISTS CONTINUOUSLY SUPPORTED. 50 PSF FOR JOISTS ON BLOCKS AS SHOWN.
- USE OPTIONAL CONCRETE BLOCKS AS REQUIRED TO LEVEL BUILDING:
SUGGESTED SIZES: 2" x 8" x 16", 4" x 8" x 16", OR 8" x 8" x 16".
BLOCKS UNDER JOISTS SPACED @ 8'-0" O.C. MAXIMUM.
BLOCKS UNDER TRACK SPACED @ 4'-0" O.C. MAXIMUM.

1 STEEL SHED BASE DETAIL
SCALE: N.T.S.

SIDE WALL EDGE NAILING REQUIREMENTS					
MARK WALLS BEING USED	END WALL WIDTH	SIDE WALL LENGTH	NAILING (NOTE 4)	MAX. COMB. OPENING (NOTE 3)	MIN TOTAL COMBINED SHEAR WALL MIN 2'-0" WALL SEGMENT
NO OPENINGS ALONG THE WALL					
	6'	6'-12'	8d NAILS @ 6" O.C.	N/A	N/A
	8'	8'-16'	8d NAILS @ 6" O.C.	N/A	N/A
	10'	10'-20'	8d NAILS @ 6" O.C.	N/A	N/A
	12'	12'-24'	8d NAILS @ 6" O.C.	N/A	N/A
MIN 2'-3" RTN WALLS ON EACH END OF WALL					
	6'	6'-12'	8d NAILS @ 6" O.C.	UP TO 8'	4'
	8'	8'-16'	8d NAILS @ 6" O.C.	UP TO 10'	6'
	10'	10'-20'	8d NAILS @ 6" O.C.	UP TO 12'	7'
	10'	10'-20'	8d NAILS @ 4" O.C.	UP TO 12'	5'
	12'	12'-24'	8d NAILS @ 6" O.C.	UP TO 12'	9'
	12'	12'-24'	8d NAILS @ 4" O.C.	UP TO 12'	6'



2 AUGER ANCHOR DETAIL
SCALE: N.T.S.

ANCHORS MUST BE INSTALLED IN NATIVE SOIL OR CLEAN COMPACTED FILL. WORKING LOAD IS 3,150 LBS.

AUGER ANCHORS		
WIDTH	LENGTH	# OF ANCHORS
8'	8'-14'	4 ANCHORS
8'	16'-24'	6 ANCHORS
10'	10'-14'	4 ANCHORS
10'	16'-24'	6 ANCHORS
12'	12'-14'	4 ANCHORS
12'	16'-24'	6 ANCHORS

PROVIDE (1) ANCHOR AT EACH CORNER OF BUILDING. PROVIDE (1) ANCHOR AT CENTER OF EACH SIDEWALL FOR 16'-24" LONG BUILDINGS.

END WALL EDGE NAILING REQUIREMENTS					
MARK WALLS BEING USED	END WALL WIDTH	SIDE WALL LENGTH	NAILING (NOTE 4)	MAX. COMB. OPENING (NOTE 3)	MIN TOTAL COMBINED SHEAR WALL MIN 2'-0" WALL SEGMENT
NO OPENINGS ALONG THE WALL					
	6'	6'-8'	8d NAILS @ 6" O.C.	N/A	N/A
	6'	10'-12'	8d NAILS @ 4" O.C.	N/A	N/A
	8'	8'-12'	8d NAILS @ 6" O.C.	N/A	N/A
	8'	14'-16'	8d NAILS @ 4" O.C.	N/A	N/A
	10'	10'-14'	8d NAILS @ 6" O.C.	N/A	N/A
	10'	16'-20'	8d NAILS @ 4" O.C.	N/A	N/A
	12'	12'-16'	8d NAILS @ 6" O.C.	N/A	N/A
	12'	18'-24'	8d NAILS @ 4" O.C.	N/A	N/A

MIN 2'-3" RTN WALLS ON EACH END OF WALL					
MARK WALLS BEING USED	END WALL WIDTH	SIDE WALL LENGTH	NAILING (NOTE 4)	MAX. COMB. OPENING (NOTE 3)	MIN TOTAL COMBINED SHEAR WALL MIN 2'-0" WALL SEGMENT
	6'	6'	8d NAILS @ 4" O.C.	3'	3'
	6'	8'	8d NAILS @ 3" O.C.	3'	3'
	6'	10'-12'	8d NAILS @ 4" O.C. (BS)	3'	3'
	8'	8'-10'	8d NAILS @ 4" O.C.	3'	5'
	8'	12'-14'	8d NAILS @ 3" O.C.	3'	5'
	8'	16'	8d NAILS @ 4" O.C. (BS)	3'	5'
	8'	8'	8d NAILS @ 4" O.C.	4'	4'
	8'	10'-12'	8d NAILS @ 3" O.C.	4'	4'
	8'	14'-16'	8d NAILS @ 4" O.C. (BS)	4'	4'
	10'	10'-12'	8d NAILS @ 4" O.C.	4'	6'
	10'	14'-16'	8d NAILS @ 3" O.C.	4'	6'
	10'	18'-20'	8d NAILS @ 4" O.C. (BS)	4'	6'
	10'	10'	8d NAILS @ 4" O.C.	5'	5'
	10'	12'-14'	8d NAILS @ 3" O.C.	5'	5'
	10'	16'-20'	8d NAILS @ 4" O.C. (BS)	5'	5'
	12'	12'	8d NAILS @ 6" O.C.	3'	9'
	12'	14'-18'	8d NAILS @ 4" O.C.	3'	9'
	12'	20'-24'	8d NAILS @ 3" O.C.	3'	9'
	12'	12'	8d NAILS @ 6" O.C.	6'	6'
	12'	14'-16'	8d NAILS @ 4" O.C.	6'	6'
	12'	18'-24'	8d NAILS @ 4" O.C. (BS)	6'	6'
	12'	12'-16'	8d NAILS @ 4" O.C. (BS)	8'	4'

TABLE NOTES:

- NAILING IS FOR 3/8" SMARTSIDE PANEL OR 3/8" SILVERSIDE PANEL.
- NO SINGLE OPENING GREATER THAN 8'-0"
- USE COMMON OR GALVANIZED BOX NAILS.
- FIELD NAILING FOR 3/8" SMARTSIDE: 8d @ 12" O.C.
- BS = INSTALL SHEATHING TO BOTH SIDES OF THE WALL

ROOF SHEATHING (7/16" OSB)			
WIDTH		FIELD NAILING	EDGE NAILING
6'	6'-12'	8d NAILS @ 12" O.C.	8d NAILS @ 6" O.C.
8'	8'-24'	8d NAILS @ 12" O.C.	8d NAILS @ 8" O.C.
10'	10'-24'	8d NAILS @ 12" O.C.	8d NAILS @ 8" O.C.
12'	12'-24'	8d NAILS @ 12" O.C.	8d NAILS @ 8" O.C.

NOTES:
1. USE 8d COMMON NAILS W/ A MIN SHANK DIAMETER OF 0.131" AND A LENGTH OF 2 1/2".



Order # _____
Customer: _____
Site Address: _____
Building Size: WIDTH x LENGTH x HEIGHT - SQ. FT. AREA

P.O. # _____
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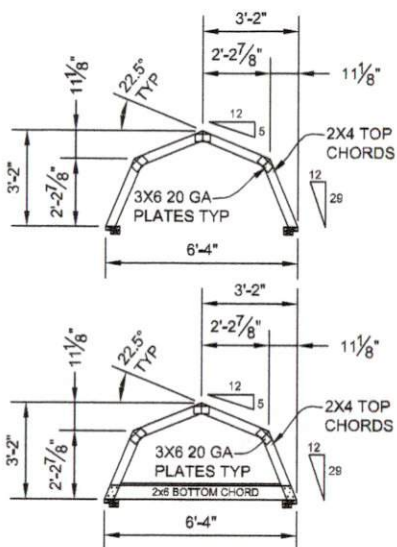
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TITLE
GENERAL NOTES
& TABLES
115 MPH, EXP. C

DRAWING NO. 610-PTB-TB600-01
REV. LEVEL 01
SHEET 2
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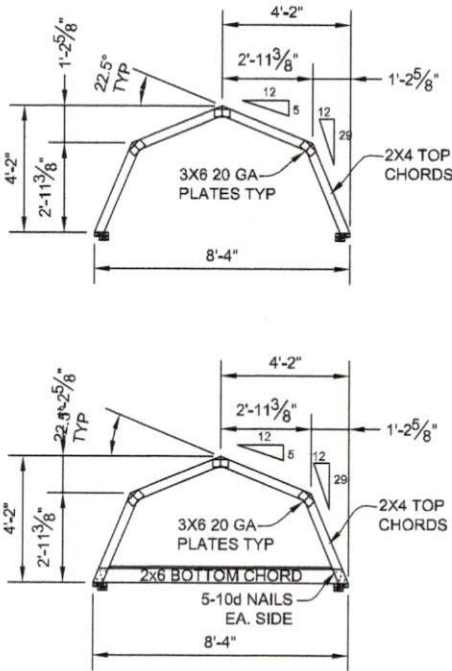
DESIGN LOADS:
 TOP CHORD LIVE LOAD = 20 PSF
 TOP CHORD DEAD LOAD = 10 PSF
 COLLAR TIE DEAD LOAD = 5 PSF
 BOTTOM CHORD LIVE LOAD = 30 PSF
 BOTTOM CHORD DEAD LOAD = 10 PSF

NOTES:
 2015 IBC & IRC, 2018 IBC & IRC
 ANSI/TPI 1-2014
 TRUSSES TO BE SPACED @ 24" OC
 MATERIAL TO BE 2X4 SPRUCE PINE FIR GRADE #2
 OR BETTER. PLATES ARE TO BE PRESSED IN THE
 WOOD PER TPI.

REP MEMBER INCREASE: YES
 LUMBER D.O.L.: 1.25

WIND:
 ASCE 7-10, 115 mph, Exposure C, D.O.L.=1.60

PLATES ARE MANUFACTURED BY EAGLE METAL
 PRODUCTS, ICC-ES #ESR-1082.

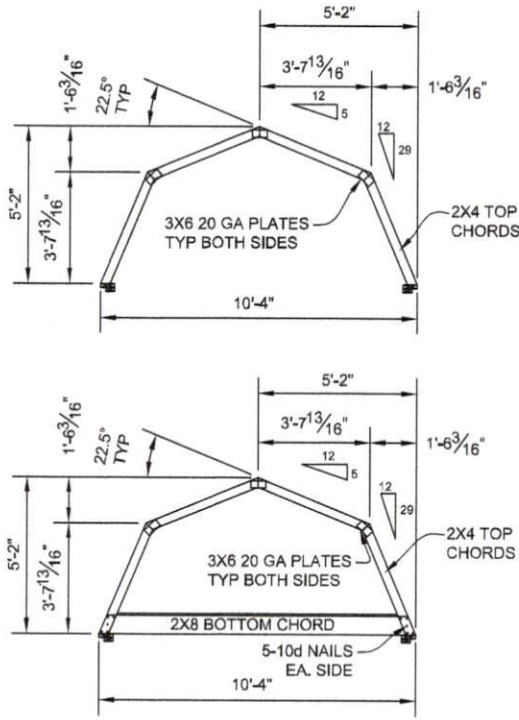


6' SPAN
REACTIONS:
 MAX. VERTICAL: 445 LBS.
 MAX. UPLIFT: -175 LBS.

NOTE:
 TRUSS MAY BE USED ON BUILDING LENGTHS
 UP TO 12FT UNLESS CEILING JOIST OR OTHER
 TENSION TIE IS PROVIDED.

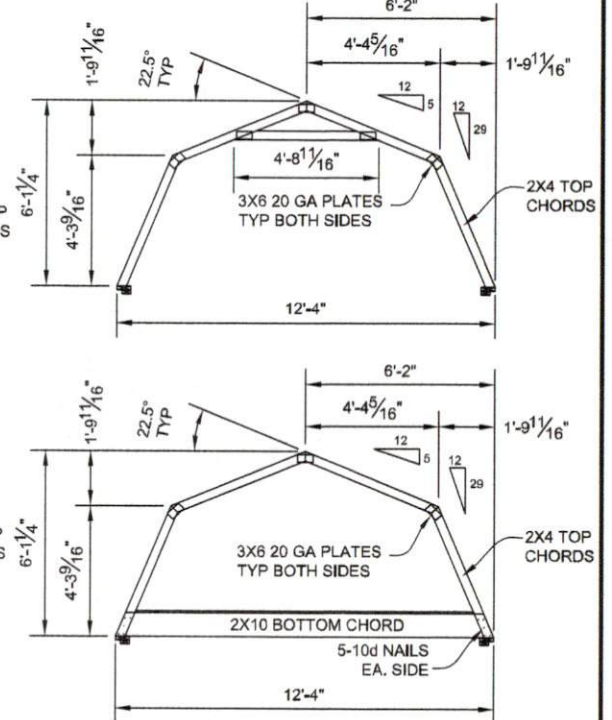
8' SPAN
REACTIONS:
 MAX. VERTICAL: 585 LBS.
 MAX. UPLIFT: -205 LBS.

NOTE:
 TRUSS MAY BE USED ON BUILDING LENGTHS
 UP TO 14FT UNLESS CEILING JOIST OR OTHER
 TENSION TIE IS PROVIDED.



10' SPAN
REACTIONS:
 MAX. VERTICAL: 725 LBS.
 MAX. UPLIFT: -255 LBS.

NOTE:
 TRUSS MAY BE USED ON BUILDING LENGTHS
 UP TO 20FT UNLESS CEILING JOIST OR OTHER
 TENSION TIE IS PROVIDED.



12' SPAN
REACTIONS:
 MAX. VERTICAL: 865 LBS.
 MAX. UPLIFT: -300 LBS.

NOTE:
 TRUSS MAY BE USED ON BUILDING LENGTHS
 UP TO 24FT UNLESS CEILING JOIST OR OTHER
 TENSION TIE IS PROVIDED.

MAXIMUM DEFLECTION (12 FT. SPAN)
 VERT LL: 0.06 in.
 VERT TL: 0.08 in.

ALL PERSONS FABRICATING, HANDLING, ERECTING OR INSTALLING THIS TRUSS ARE TO DO SO IN
 ACCORDANCE TO THE RECOMMENDATIONS OF THE LATEST VERSION OF THE BCSI.



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 Customer: _____
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TITLE	DRAWING NO.
TRUSS DETAILS	610-PTB-TB600-01
115 MPH, EXP. C	REV. LEVEL 01
	SHEET 3
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