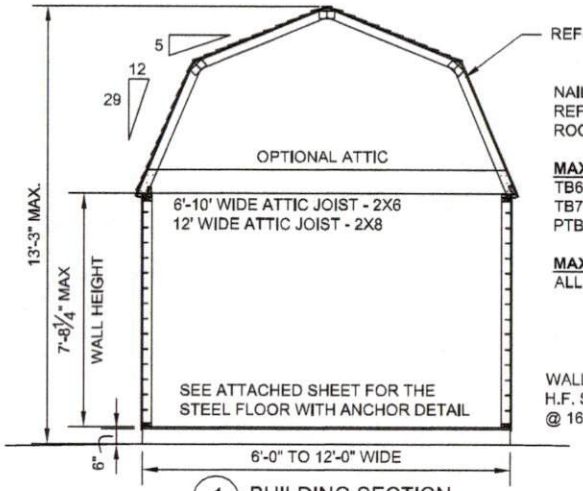
UNINHABITED UTILITY BARN SHED UP TO 12' WIDE x UP TO 24' LONG
PTB, TB700, TB600

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 GCpi: ±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.

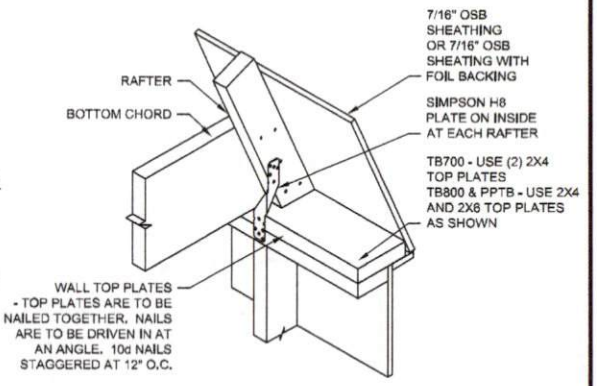
REFER TO TRUSS DESIGN

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

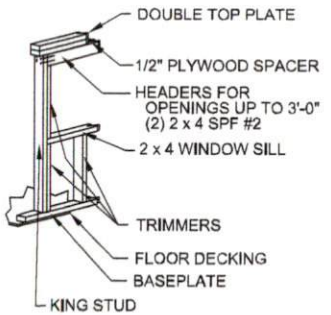
WALL FRAMING TO BE 2X4 H.F. STUD GRADE OR BETTER @ 16" OC.



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

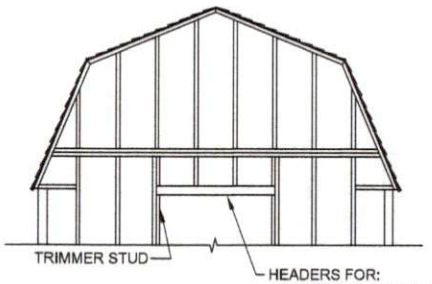
STAMPED FOR SUPERSTRUCTURE AND BASE ONLY; NOT FOR ANCHORAGE TO GROUND



FOR WINDOW OPENINGS UP TO 3'-0"

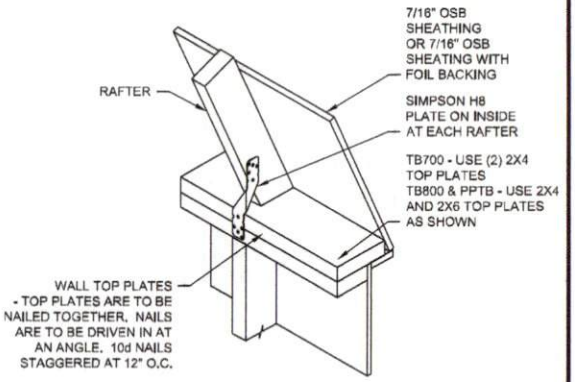
2A WINDOW HEADER DETAIL FOR SIDE WALLS
SCALE: N.T.S.

SIDEWALL DOORS NOT AVAILABLE ON THIS MODEL



2B DOOR HEADER DETAIL FOR SIDE WALLS
SCALE: N.T.S.

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



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

TUFF SHED
Storage Buildings & Garages
TUFF SHED, MFG. FACILITIES

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

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

TUFF SHED, INC.
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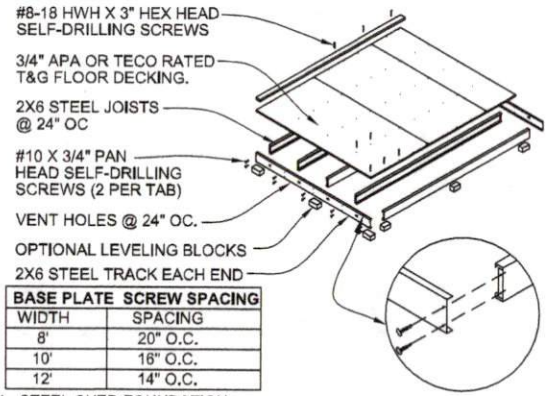
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 044353 RICHARD J. WILLS

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

19 FEB 2019

3/8 SMART SIDE NAILING REQUIREMENTS

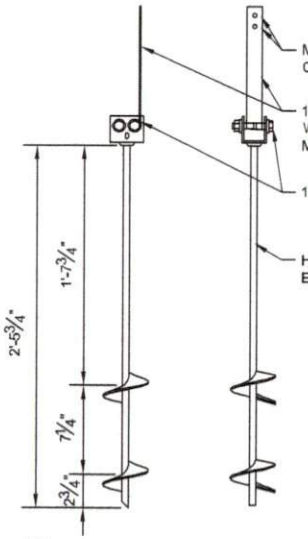


BASE PLATE SCREW SPACING	
WIDTH	SPACING
8'	20" O.C.
10'	16" O.C.
12'	14" O.C.

1. 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.
2. 3/4" APA OR TECO RATED TONGUE AND GROOVE FLOOR DECKING. 24" MAX PANEL SPAN.
3. 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.
4. FASTEN SOLE PLATE THROUGH FLOOR DECKING INTO JOISTS OR TRACKS WITH #8-18 HWH X 3" GALVANIZED SELF-DRILLING SCREWS. REFERENCE SPACING CHART.
5. ALLOWABLE FLOOR LIVE LOAD: 75 PSF FOR STEEL JOISTS CONTINUOUSLY SUPPORTED. 50 PSF FOR JOISTS ON BLOCKS AS SHOWN.
6. 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'



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.

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

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				
	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:

1. NAILING IS FOR 3/8" SMARTSIDE PANEL OR 3/8" SILVERSIDE PANEL.
2. NO SINGLE OPENING GREATER THAN 8'-0"
3. USE COMMON OR GALVANIZED BOX NAILS.
4. FIELD NAILING FOR 3/8" SMARTSIDE: 8d @ 12" O.C.
5. 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 @ 6" O.C.
10'	10'-24'	8d NAILS @ 12" O.C.	8d NAILS @ 6" O.C.
12'	12'-24'	8d NAILS @ 12" O.C.	8d NAILS @ 6" O.C.

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

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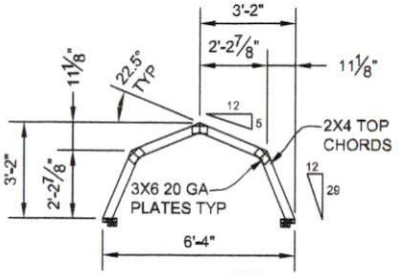
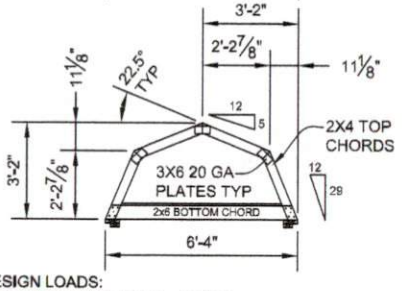
NORTH CAROLINA PROFESSIONAL SEAL 044353 ENGINEER RICHARD J WILLS

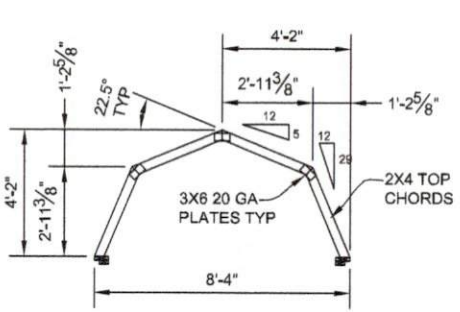
TITLE: GENERAL NOTES & TABLES
115 MPH, EXP. C

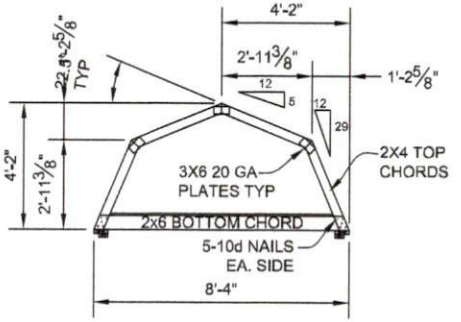
DRAWING NO. 610-PTB-TB600-01
REV. LEVEL 01
SHEET 2
PAGE 2 OF 3

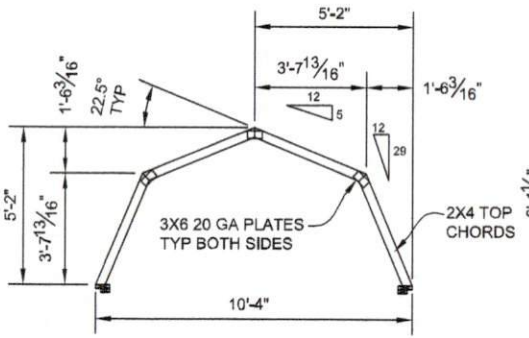
19 FEB 2019

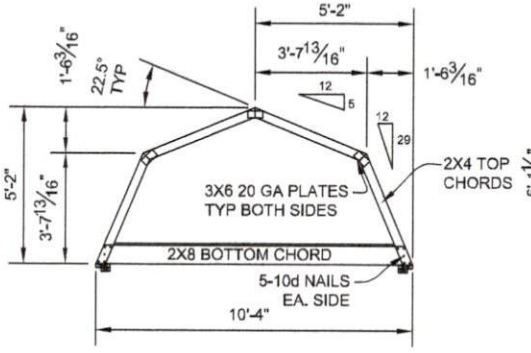


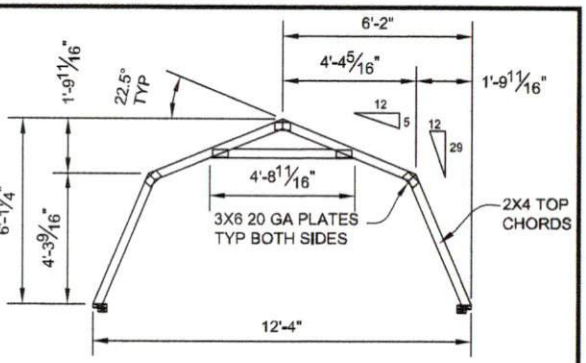


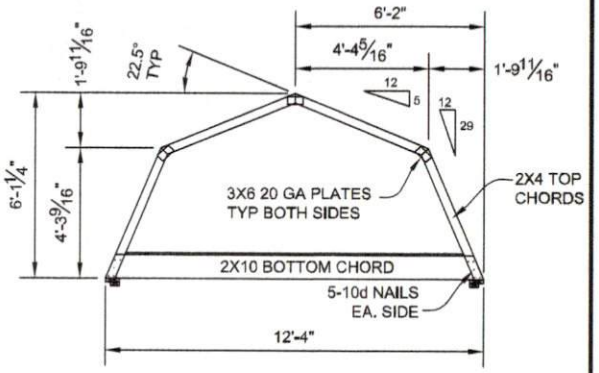












DESIGN LOADS:
TOP CHORD LIVE LOAD = 20 PSF
TOP CHORD DEAD LOAD = 10 PSF
COLLAR TIE DEAD LOAD = 5 PSF
BOTTOM CHORD LIVE LOAD = 30 PSF
BOTTOM CHORD DEAD LOAD = 10 PSF

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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Storage Buildings & Garages
TUFF SHED, MFG. FACILITIES

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TITLE
TRUSS DETAILS

115 MPH, EXP. C

DRAWING NO.
610-PTB-TB600-01

REV. LEVEL 01

SHEET 3

PAGE 3 OF 3

19 FEB 2019