#### NOTES:

BUILDING CODE: FLORIDA BUILDING CODE, 7th EDITION (2020) BUILDINGS ARE NOT FOR HIGH-VELOCITY HURRICANE ZONES (HVHZ)

**DESIGN LOADING:** 

WIND SPEED:  $V_{ult} = 155$ 

 $V_{asd} = 120$ **EXPOSURE:** 

**ROOF LIVE LOAD: 20 PSF ROOF DEAD LOAD: 10 PSF** 

FLOOR LIVE LOAD: MIN. 50 PSF (SEE NOTE 5, DETAIL 1, SHEET 3)

RISK CATEGORY: I

ROOF: COMPONENT AND CLADDING: WIND PRESSURE (psf) (ASD VALUES)

(BASED ON 10 SQ FT)

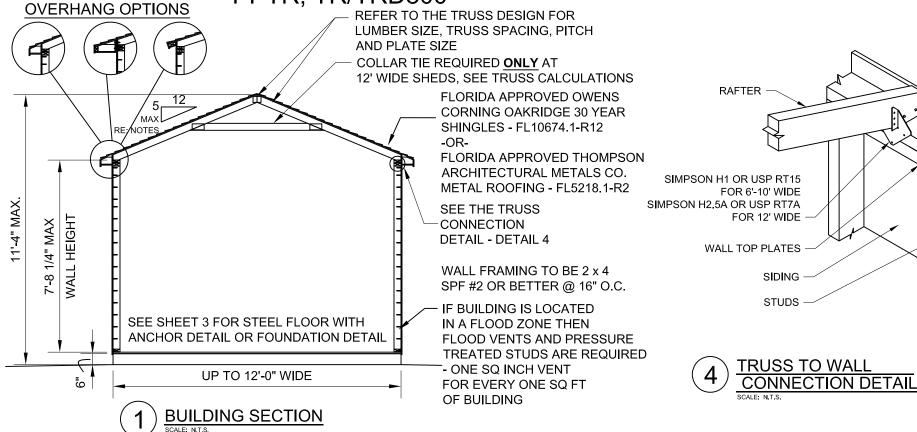
18/-50 PSF (ZONE 2) 18/-74 PSF (ZONE 3) WALL: 31/-34 PSF (ZONE 4)

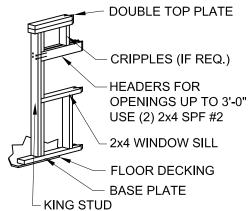
18/-29 PSF (ZONE 1)

31/-42 PSF (ZONE 5)

SHED MANUFACTURER SHALL HAVE A LIST OF ALL REQUIRED PRODUCTS THAT NEED FLORIDA STATE APPROVAL AVAILABLE FOR 3RD PARTY INSPECTOR AND REVIEW BY E.O.R. FOR COMPLIANCE WITH WIND LOADS.

## UNINHABITED UTILITY SHED UP TO 12' WIDE x UP TO 24' LONG PPTR, TR/TRD800





**DOUBLE TOP PLATE** CRIPPLES (IF REQ.) **HEADERS FOR OPENINGS UP TO 4'-0"** USE (2) 2x4 SPF #2 OPENINGS 4'-1" TO 6'-0" USE (2) 2x6 SPF #2 OPENINGS 6'-1" TO 8'-0" USE (2) 2x8 SPF #2 KING STUD TRIMMER BASE PLATE FLOOR DECKING

CRIPPLE STUD KING STUD ☐ TRIMMER STUD HEADERS FOR: -OPENINGS UP TO 6'-0" USE (2) 2x4 SPF #2

OPENINGS 6'-1" TO 8'-0" USE (2) 2x6 SPF #2

REFER TO THE DOOR DETAIL (SHEET 2) FOR

Plans for Code

TOE NAIL WITH (3)

18d NAILS, (2) ONÉ

SIDE, (1) OTHER

FOR WINDOW OPENINGS UP TO 3'-0"

FOR OPENINGS UP TO 8'-0"

SHEATHING NAILING. MAX WALL HEIGHT FOR EACH SHED:

REFER TO SHEET 2 FOR WALL AND ROOF

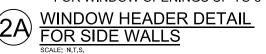
- 16d @ 16" STAGGERED FACE NAIL

HEADER TO STUD - 4-16d END NAIL DOUBLED HEADER

PPTR - 7'-8 1/4" (92 1/4") TR/TRD800 - 7'-8 1/4" (92 1/4")

**HEADER NAILING:** 

NAILING:





DOOR HEADER DETAIL FOR SIDE WALLS

$\bigcirc$	<b>HEADER DETAIL FOR</b>
(3)	END WALLS
	SCALE: N.T.S.

THE DOOR DESIGN

TITLE

	FF		11	
Storage	Buildi	ngs &	Gara	ages
	TUFF SH	IED, MFG	G. FACIL	.ITIES
	<b>\</b>			

P.O. # Order #. Drawn By: PK Customer: Date: 12/6/16 Site Address: Checked By: Date: Building Size: WIDTH - LENGTH - HEIGHT - SQ. FT. ARE Scale: N.T.S.

THESE DRAWINGS AND THE **DESIGN ARE THE PROPERTY** OF TUFF SHED, INC. THESE DRAWINGS ARE FOR A **BUILDING TO BE SUPPLIED** AND BUILT BY TUFF SHED. ANY OTHER USE IS FORBIDDEN BY BOTH TUFF SHED AND THE ENGINEER OF RECORD.

TUFF SHED, INC. **ENGINEERING DEPARTMENT** 

RICHARD J. WILLS, P.E. RWILLS@TUFFSHED.COM 1777 S. HARRISON STREET DENVER, COLORADO 80210 (303) 753-8833 EXT. 96315

**BUILDING SECTIONS** HEADER FRAMING DETAILS

FBC, 7th EDITION (2020) 155C

DRAWING NO.

FL-PPTR-TR800-01 **REV. LEVEL** 01 SHEET PAGE 1 OF 4

### 3/8 SMART SIDE NAILING REQUIREMENTS

USE THESE NAILING TABLES FOR THE PPTR AND TR/TRD800 DRAWINGS

SIDE WALL EDGE NAILING REQUIREMENTS				Е	ND WAL	L EDGE NAILING REQ	UIREMENT	S			
MARK WALLS BEING USED	END WALL WIDTH	SIDE WALL LENGTH	EDGE NAILING	MAX. COMB. OPENING (NOTE 2)	MIN TOTAL COMBINED SHEAR WALL	MARK WALLS BEING USED	END WALL WIDTH	SIDE WALL LENGTH	EDGE NAILING	MAX. COMB. OPENING	MIN TOTAL COMBINED SHEAR WALL
	NO OP	ENINGS A	LONG THE WALL				NO OP	ENINGS A	LONG THE WALL		
	6'	6'-16'	8d NAILS @ 6" O.C.	0'	6'-18'		6'	6'-8'	8d NAILS @ 6" O.C.	0'	6'
	8'	8'-22'	8d NAILS @ 6" O.C.	0'	8'-24'		6'	10'-12'	8d NAILS @ 4" O.C.	0'	6'
	10'	10'-24'	8d NAILS @ 6" O.C.	0'	10'-24'		6'	14'-16'	8d NAILS @ 3" O.C.	0'	6'
	12'	12'-24'	8d NAILS @ 6" O.C.	0'	12'-24'		8'	8'-10'	8d NAILS @ 6" O.C.	0'	8'
■ MIN 2'-4'	' RTN W	ALLS ON	EACH END OF WALL-	■MIN 2'-4" WA	LL SEGMENT		8'	12'-16'	8d NAILS @ 4" O.C.	0'	8'
	6'	6'-18'	8d NAILS @ 6" O.C.	UP TO 12'	4'		8'	18'-22'	8d NAILS @ 3" O.C.	0'	8'
	8'	8'-22'	8d NAILS @ 6" O.C.	UP TO 12'	6'		10'	10'-14'	8d NAILS @ 6" O.C.	0'	10'
	8'	8'-22'	8d NAILS @ 4" O.C.	UP TO 12'	4'		10'	16'-20'	8d NAILS @ 4" O.C.	0'	10'
	10'	10'-24'	8d NAILS @ 6" O.C.	UP TO 12'	8'		10'	22'-24'	8d NAILS @ 3" O.C.	0'	10'
	10'	10'-24'	8d NAILS @ 4" O.C.	UP TO 12'	5'		12'	12'-16'	8d NAILS @ 6" O.C.	0'	12'
	12' 12'	12'-24' 12'-24'	8d NAILS @ 6" O.C. 8d NAILS @ 4" O.C.	UP TO 12' UP TO 12'	9' 6'		12'	18'-24'	8d NAILS @ 4" O.C.	0'	12'
			1	1 0. 10 .2	·	■ MIN 2'-4'	" RTN W	ALLS ON	EACH END OF WALL-	MIN 2'-4" W	ALL SEGMENT

ROOF SHEATHING (7/16" OSB)						
WIDTH	LENGTH		EDGE NAILING			
6'		8d NAILS @ 12" O.C.				
8'		8d NAILS @ 12" O.C.				
10'		8d NAILS @ 12" O.C.				
12'	12'-24'	8d NAILS @ 12" O.C.	8d NAILS @ 4" O.C.			

#### TABLE NOTES:

- 1. NAILING IS FOR 3/8" SMARTSIDE PANEL OR 3/8" SMARTSIDE WITH FOIL BACKER.
- 2. NO SINGLE OPENING GREATER THAN 8'-0"
  3. \* 6' WIDE X 6'-9' LENGTH BUILDINGS ARE BASED ON 3-SIDED DIAPHRAGM. THE END WALL OPPOSITE OF THE OPENING MUST BE FULLY SHEATHED, IN THE 3-SIDED DIAPHRAGM CASES (NO OPENINGS) AND NAILED AS SPECIFIED. THE END WALL WITH THE OPENING DOES NOT HAVE A MIN. RETURN WALL ON EACH SIDE OF THE OPENING.
- 4. USE COMMON OR GALVANIZED BOX NAILS WITH A MINIMUM LENGTH OF 2 1/2".
- 5. FIELD NAILING FOR 3/8" SMARTSIDE: 8d @ 12" O.C.
  6. ON THESE BUILDINGS 6' X 10'-18' THE 3' DOOR IN THE END
  WALL WILL NEED TO BE OFF SET. THERE WILL BE A 2'6" PANEL ON ONE SIDE AND A 6" PANEL ON THE OTHER SIDE OF THE
- 7. (BS) DESIGNATES WALLS THAT NEED TO BE SHEATHED ON BOTH'SIDES.

*6'	6'-9'	8d NAILS @ 3" O.C.	3'	SEE NOTE 3
6'	10'	8d NAILS @ 3" O.C. (BS)	3'	2'6" (NOTE 6)
8'	8'-10'	8d NAILS @ 4" O.C.	3'	5'
8'	12'-14'	8d NAILS @ 3" O.C.	3'	5'
8'	16'-20'	8d NAILS @ 4" O.C. (BS)	3'	5'
8'	22'-24'	8d NAILS @ 3" O.C. (BS)	3'	5'
8'	8'	8d NAILS @ 4" O.C.	4'	4'
8'	10'	8d NAILS @ 3" O.C.	4'	4'
8'	12'-16'	8d NAILS @ 4" O.C. (BS)	4'	4'
8'	18'-22'	8d NAILS @ 3" O.C. (BS)	4'	4'
10'	10'-14'	8d NAILS @ 4" O.C.	3'	7'
10'	16'-18'	8d NAILS @ 3" O.C.	3'	7'
10'	20'-24'	8d NAILS @ 4" O.C. (BS)	3'	7'
10'	10'-12'	8d NAILS @ 4" O.C.	4'	6'
10'	14'-16'	8d NAILS @ 3" O.C.	4'	6'
10'	18'-24'	8d NAILS @ 4" O.C. (BS)	4'	6'
10'	10'	8d NAILS @ 3" O.C.	6'	4'
10'	12'-20'	8d NAILS @ 3" O.C. (BS)	6'	4'
12'	12'-16'	8d NAILS @ 4" O.C.	4'	8'
12'	18'-20'	8d NAILS @ 3" O.C.	4'	8'
12'	22'-24'	8d NAILS @ 4" O.C. (BS)	4'	8'
12'	12'	8d NAILS @ 4" O.C.	6'	6'
12'	14'	8d NAILS @ 3" O.C.	6'	6'
12'	16'-24'	8d NAILS @ 4" O.C. (BS)	6'	6'
12'	12'-20'	8d NAILS @ 3" O.C. (BS)	8'	4'

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

	Scale:	
Building Size:width-length-height-sq. ft. area	Date:	
	Checked	
Site Address:	Date: 12	
Custom <u>er:</u>	Drawn B	
Order #.	P.O. #	

By: PK 2/6/16 d By: ANY OTHER USE IS RECORD. N.T.S.

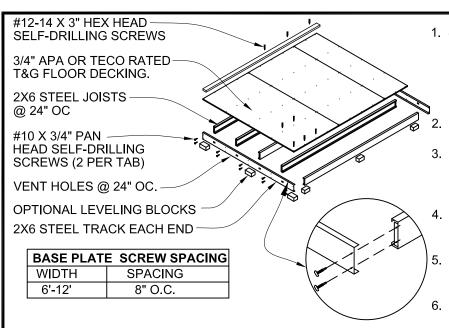
THESE DRAWINGS AND THE DESIGN ARE THE PROPERTY OF <u>TUFF SHED</u>, <u>INC</u>. THESE DRAWINGS ARE FOR A **BUILDING TO BE SUPPLIED** AND BUILT BY TUFF SHED. FORBIDDEN BY BOTH TUFF SHED AND THE ENGINEER OF

TUFF SHED, INC. ENGINEERING DEPARTMENT RICHARD J. WILLS, P.E. RWILLS@TUFFSHED.COM

1777 S. HARRISON STREET DENVER, COLORADO 80210 (303) 753-8833 EXT. 96315

DRAWING NO. TITLE FL-PPTR-TR800-01 **GENERAL NOTES REV. LEVEL** 01 SHEET FBC, 7th EDITION (2020) 155C PAGE 2 OF 4

NOTES: 1. USE 8d COMMON OR GALVANIZED BOX NAILS.



SIDING

3/8" CARRIAGE

**BOLT** (GRADE 2)

OT17SWB

OT24SWB

-OR-

TRIM

STUD

0

Z Z E

4

3/8" NYLON

LOCK NUT

BASEPLATE

STEEL SHED

BASE

FLOOR PLY

STEEL SHED BASE DETAIL

STEEL SHED FOUNDATION:

600T125-054 - 16 GAUGE STEEL TRACKS G140 ZINC COATED 600S137-054 - 16 GAUGE STEEL JOISTS G140 ZINC COATED @ 24" O.C.

(SUPPLIER: ALLIED STUDCO (JOIST: 600S137-054 / TRACK: 600T125-054) ICC ER-4943P.

- 2. 3/4" APA OR TECO RATED TONGUE AND GROOVE FLOOR DECKING. 24" MAX PANEL SPAN. STAGGER PANEL LAYOUT.
- 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 #12-14 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.
- USE OPTIONAL CONCRETE BLOCKS AS REQUIRED TO LEVEL BUILDING:

KWIK BOLT ANCHORS

RE: DETAIL 3 SHEET 3

|LENGTH |QTY

6

8

6

8

10

6

8

6

8

1. ANCHORS TO BE KWIK BOLT TZ. 304 SS

2. PROVIDE (1) ANCHOR AT EA. CORNER OF THE BUILDING. THE REMAINING ANCHORS EQUALLY SPACED ALONG THE

LENGTH OF THE BUILDING. (1/2 THE

SIDE EQUALLY SPACED).

REMAINING ANCHORS ON EA. LENGTH

6'-10'

12'-18'

8'-14'

16'-20'

22'-24'

10'-16'

18'-24'

12'-18'

20'-24'

(INTO CONCRETE)

6'

8'

8'

8'

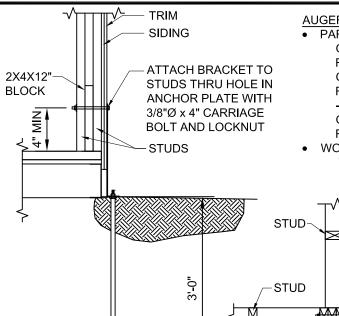
10'

10'

12'

12'

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.



#### AUGER ANCHOR COMPONENTS BY OLIVER TECHNOLOGIES

PART NUMBERS:

OT3644BGMP- 5/8" X 36" (36" IMBED) GALVANIZED AUGER REPORT NO. RAD-3060

OT17SWB - SIDEWALL BRACKET FOR USE WITH THRU BOLTS REPORT NO. LO-FJ90129-A

-OR-

SIDE

OT24SWB - SIDEWALL BRACKET FOR USE WITH THRU BOLTS REPORT NO. LO-FJ90129-B

WORKING LOAD FOR ANCHOR SYSTEM IS 3,150 LBS
 WITH THE MAXIMUM LOAD OF 4,725 LBS

AUGER ANCHORS					
WIDTH	LENGTH	# OF ANCHORS			
6'	6'-18'	4 ANCHORS			
8'	8'-24'	4 ANCHORS			
10'	10'-24'	6 ANCHORS			
12'	12'-24'	6 ANCHORS			

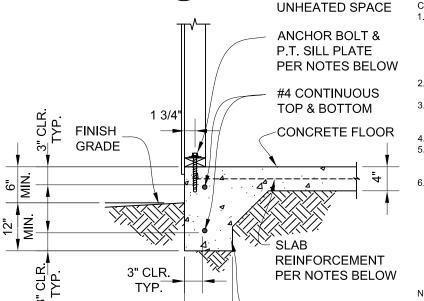
4-ANCHORS PROVIDE (1) AT EA. CORNER OF THE BUILDING. 6-ANCHORS PROVIDE (1) AT EA. CORNERS OF THE BUILDING AND (1) AT THE CENTER OF EA. SIDE WALL.

ANCHOR BRACKET
TO BE FLUSH WITH
TO BE OF TRIM

## 2

 $\left( \mathbf{2} \right) \frac{\mathsf{AUGER}}{\mathsf{SCALE: NTS}} \mathsf{ANCHOR} \; \mathsf{DETAIL}$ 

**END WALL** 



MIN.

CONCRETE FOUNDATION DETAIL

CONTINUOUS FOOTING NOTES

SIDING

TRIM

- TOP OF SLAB TO BE 6" MIN. ABOVE GRADE. SLAB REINFORCEMENT SHALL BE WWF 6X6 W1.4xW1.4. LOCATE AT MID-DEPTH OF SLAB.
  - SLAB REINFORCEMENT SHALL BE FIBERMESH 150 OR BLENDED FIBERMESH150. FIBERMESH SHOULD BE DISPERSED UNIFORMLY THROUGH CONCRETE W/ MIN. 1 POUND PER CUBIC YARD OF CONCRETE.
- ALL FOOTING FORMS SHALL BE INSPECTED FOR SIZE AND REINFORCING BEFORE POURING CONCRETE.
- FOOTINGS SHALL BEAR ON UNDISTURBED NATURAL, COMPETENT SOIL, OR PROPERLY COMPACTED STRUCTURAL FILL. ALLOWABLE SOIL BEARING PRESSURE IS 1000 PSF AT 12" BELOW GRADE.
- CONCRETE: MINIMUM 28 DAY COMPRESSIVE STRENGTH, fc = 2500 PSI.
  REINFORCING STEEL: A615, GRADE 40 OR GRADE 60. ALL REINFORCING
  STEEL SHOWN TO BE CONTINUOUS MAY BE LAPPED A MINIMUM OF 38 BAR
  DIAMETERS OR 24" MINIMUM. WHICHEVER IS LARGER.
- . SEISMIC DESIGN CATEGORY: A
  - ATTACH PRESSURE TREATED SOLE PLATE TO THE FOOTING USING 1/2" DIA X 7" LONG SIMPSON TITEN ANCHOR WITH WASHERS.
  - EXPANSION BOLTS SHALL BE EMBEDDED AT LEAST 5" INTO THE CONCRETE AND SHALL BE SPACED NOT MORE THAN 6' OC.
  - C. THERE SHALL BE A MINIMUM OF 2 BOLTS PER SOLE PLATE PIECE WITH 1 BOLT LOCATED NOT MORE THAN 12" NOR LESS THAN 7 BOLT DIAMETERS FROM EACH END OF EACH PIECE. A MINIMUM OF 4 BOLTS ARE REQUIRED PER SIDE OF THE BUILDING.

NOTE: FOR BUILDINGS 18' AND LONGER OR ANY BUILDING DESIGNED AS A 3-SIDED DIAPHRAGM, ADD SIMPSON SSTB16 ANCHORS AND HDU2 HOLD DOWNS AT EACH CORNER OF THE END WALLS. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

# ANCHOR SPACING: RE: KWIK | 6" CONCRETE BOLT ANCHORS TABLE, SHEET 3 | PAD (MIN) SIDEWALL BRACKET DETAIL SCALE: N.T.S.

6"

MIN 山

THESE DRAWINGS AND THE P.O. # **DESIGN ARE THE PROPERTY** Drawn By: PK OF TUFF SHED, INC. THESE DRAWINGS ARE FOR A Date: 12/6/16 **BUILDING TO BE SUPPLIED** AND BUILT BY TUFF SHED. Checked By: ANY OTHER USE IS FORBIDDEN BY BOTH TUFF Date: SHED AND THE ENGINEER OF Building Size: WIDTH - LENGTH - HEIGHT - SQ. FT. ARE RECORD.

Scale: N.T.S.

TUFF SHED, INC. ENGINEERING DEPARTMENT

RICHARD J. WILLS, P.E. RWILLS@TUFFSHED.COM 1777 S. HARRISON STREET DENVER, COLORADO 80210 (303) 753-8833 EXT. 96315 TITLE DRAWING NO.

FL-PPTR-TR800-01

REV. LEVEL 01

SHEET 3

PAGE 3 OF 4

THICKENED SLAB

	Order #.
TUFF SHEU	Custom <u>er:</u>
Storage Buildings & Garages	Site Address:
TUFF SHED, MFG. FACILITIES	
// <u>Gred</u> \\	

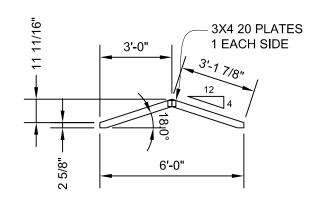
1/2" HILTI KWIK BOLT TZ

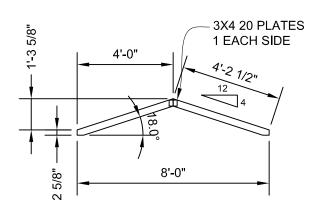
EMBEDMENT DEPTH =  $2\frac{1}{2}$ "

MIN. EDGE DISTANCE = 6"

STAINLESS STEEL 304

8 DEC 2020





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

NOTES:

FBC, 7th EDITION (2020)

ANSI/TPI 1-2014

TRUSSES TO BE SPACED @ 24" OC

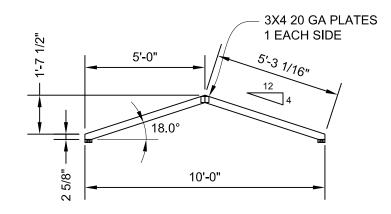
MATERIAL TO BE 2X4 SPRUCE PINE FIR GRADE #2 OR BETTER

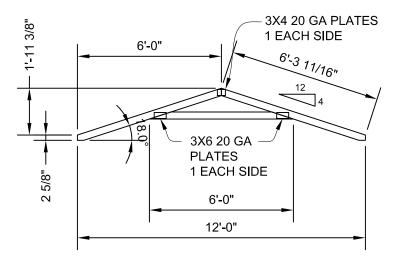
PLATES ARE TO BE PRESSED IN THE WOOD PER TPI.

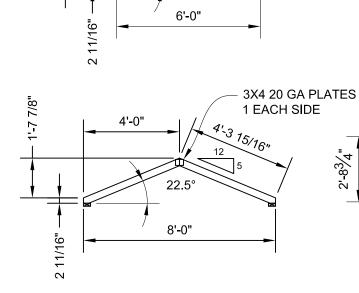
REP MEMBER INCREASE: YES LUMBER D.O.L.: 1.25

ASCE 7-16, 155 mph, Exposure C, D.O.L.=1.60

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

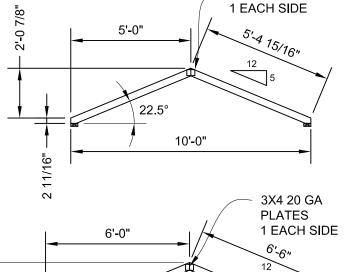


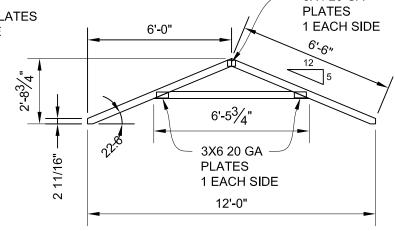




3'-0"

1'-2 15/16"





6' SPAN REACTIONS: MAX. VERTICAL: 180 LBS.

MAX. UPLIFT: -150 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: 255 LBS. MAX. UPLIFT: -195 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: 300 LBS. MAX. UPLIFT: -250 LBS.

3X4 20 GA PLATES

1 EACH SIDE

3'.2 <sub>15/16"</sub>

NOTE:

TRUSS MAY BE USED ON BUILDING LENGTHS UP TO 16FT UNLESS CEILING JOIST OR OTHER TENSION TIE IS PROVIDED.

12' SPAN REACTIONS:

MAX. VERTICAL: 420 LBS. MAX. UPLIFT: -290 LBS.

NOTE:

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

3X4 20 GA PLATES

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.

# Storage Buildings & Garages TUFF SHED, MFG. FACILITIES

0 1 "	
Order #.	P.O. #
Custom <u>er:</u>	Drawn E
Site Address:	Date: 1
	Checke
Building Size:width-length-height-sq. ft. area	Date:
3	Scale:
	Order #  Customer:  Site Address:  Building Size:width-length-height-sq.ft.area

THESE DRAWINGS AND THE awn By: PK ate: 12/6/16 necked By: ANY OTHER USE IS RECORD. ale: N.T.S.

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TUFF SHED, INC. **ENGINEERING DEPARTMENT** 

RICHARD J. WILLS, P.E. RWILLS@TUFFSHED.COM 1777 S. HARRISON STREET DENVER, COLORADO 80210 (303) 753-8833 EXT. 96315

DRAWING NO. TITLE FL-PPTR-TR800-01 TRUSS DETAILS **REV. LEVEL** 01 FBC, 7th EDITION (2020) 155C PAGE 4 OF 4