

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

PPTR, **PPR**, PTR, TR800

STRUCTURAL NOTES:

1. BUILDING CODE: 2018 NC BUILDING CODE
2015 IBC & IRC

2. DESIGN LOADING:

A. ROOF LOADS

1. UNIFORM ROOF (LIVE): 20 PSF

A. SNOW EXPOSURE FACTOR, C_e : 1.0

B. IMPORTANCE FACTOR, I : 1.0

C. THERMAL FACTOR, C_t : 1.0

D. LUMBER DURATION, C_D : 1.25

2. DEAD LOAD: 10 PSF

B. WIND LOADS

1. BASIC WIND SPEED (V_{ult}): 120 MPH

2. EXPOSURE: C

3. INTERNAL PRESSURE COEFFICIENT G_{Cpi} : ± 0.18

C. SEISMIC DESIGN

1. IMPORTANCE FACTOR: 1.0

2. SPECTRAL RESPONSE ACCELERATIONS: $S_s = 0.42$

$S_1 = 0.14$

3. SITE CLASS: D

4. SITE COEFFICIENTS: $S_{DS} = 0.44$

$S_{D1} = 0.22$

5. SEISMIC DESIGN CATEGORY: C

LUMBER:

1. ALL LUMBER SHALL BE SPRUCE PINE FIR #2 GRADE (U.O.N.).

2. REFER TO THE TRUSS DESIGN FOR DESIGN INFORMATION.

HEADER NAILING:

HEADER TO STUD - 4-16d END NAIL

DOUBLED HEADER

- 16d @ 16" STAGGERED FACE NAIL

NAILING:

REFER TO SHEET 1 FOR WALL AND

ROOF SHEATHING NAILING.

MAX WALL HEIGHT FOR EACH SHED:

PPTR, PTR, TR/TRD800 - 7'-8 $\frac{1}{4}$ " (92 $\frac{1}{4}$ ")

PPR - 6'-8 $\frac{1}{4}$ " (80 $\frac{1}{4}$ ")

MAX ROOF SLOPE FOR EACH SHED:

PPTR **PPR** - 5:12

PTR, TR800 - 4:12

SIDE WALL EDGE NAILING REQUIREMENTS

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

TABLE NOTES:

- NAILING IS FOR $\frac{3}{8}$ " SMARTSIDE PANEL OR $\frac{3}{8}$ " SILVERSIDE PANEL.
- NO SINGLE OPENING GREATER THAN 8'-0"
- USE COMMON NAILS WITH A MINIMUM SHANK DIAMETER OF 0.113" AND A MINIMUM LENGTH OF 2 $\frac{1}{2}$ ".
- FIELD NAILING FOR $\frac{3}{8}$ " SMARTSIDE: 8d @ 12" O.C.
- (BS)- DESIGNATES WALLS THAT NEED TO BE SHEATHED ON BOTH SIDES.

ROOF SHEATHING ($\frac{1}{16}$ " OSB)

WIDTH	LENGTH	FIELD NAILING	EDGE NAILING
8'	8'-24'	8d NAILS @ 6" O.C.	8d NAILS @ 4" O.C.
10'	10'-24'	8d NAILS @ 6" O.C.	8d NAILS @ 4" O.C.
12'	12'-24'	8d NAILS @ 6" O.C.	8d NAILS @ 4" O.C.

NOTES:

USE 0.113" X 2 $\frac{3}{8}$ " GALVANIZED RING SHANK NAILS OR 8d COMMON.

END WALL EDGE NAILING REQUIREMENTS

MARK WALLS BEING USED	END WALL WIDTH	SIDE WALL LENGTH	EDGE NAILING	MAX. COMB. OPENING	MIN TOTAL COMBINED SHEAR WALL
NO OPENINGS ALONG THE WALL					
	8'	8'-20'	8d NAILS @ 6" O.C.	0'	8'
	8'	22'-24'	8d NAILS @ 4" O.C.	0'	8'
	10'	10'-24'	8d NAILS @ 6" O.C.	0'	10'
	12'	12'-24'	8d NAILS @ 6" O.C.	0'	12'
■ MIN 2'-6" RTN WALLS ON EACH END OF WALL- ■ MIN 2'-6" WALL SEGMENT					
	8'	8'-12'	8d NAILS @ 6" O.C.	3'	5'
	8'	14'-18'	8d NAILS @ 4" O.C.	3'	5'
	8'	20'-24'	8d NAILS @ 3" O.C.	3'	5'
	10'	10'-14'	8d NAILS @ 6" O.C.	4'	6'
	10'	16'-20'	8d NAILS @ 4" O.C.	4'	6'
	10'	22'-24'	8d NAILS @ 3" O.C.	4'	6'
	10'	10'-12'	8d NAILS @ 6" O.C.	5'	5'
	10'	14'-18'	8d NAILS @ 4" O.C.	5'	5'
	10'	20'-22'	8d NAILS @ 3" O.C.	5'	5'
	10'	24'	8d NAILS @ 4" O.C.(BS)	5'	5'
	12'	12'-18'	8d NAILS @ 6" O.C.	4'	8'
	12'	20'-24'	8d NAILS @ 4" O.C.	4'	8'
	12'	12'-14'	8d NAILS @ 6" O.C.	6'	6'
	12'	16'-20'	8d NAILS @ 4" O.C.	6'	6'
	12'	22'-24'	8d NAILS @ 3" O.C.	6'	6'
	12'	12'-16'	8d NAILS @ 4" O.C.	7'	5'
	12'	18'-22'	8d NAILS @ 3" O.C.	7'	5'
	12'	24'	8d NAILS @ 4" O.C. (BS)	7'	5'



Order # _____

Customer: _____

Site Address: _____

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

P.O. # _____

Drawn By: TB

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Checked By: _____

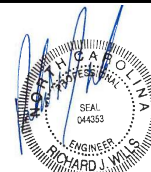
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TITLE

GENERAL NOTES

NAILING REQUIREMENTS

120 MPH, EXP. C

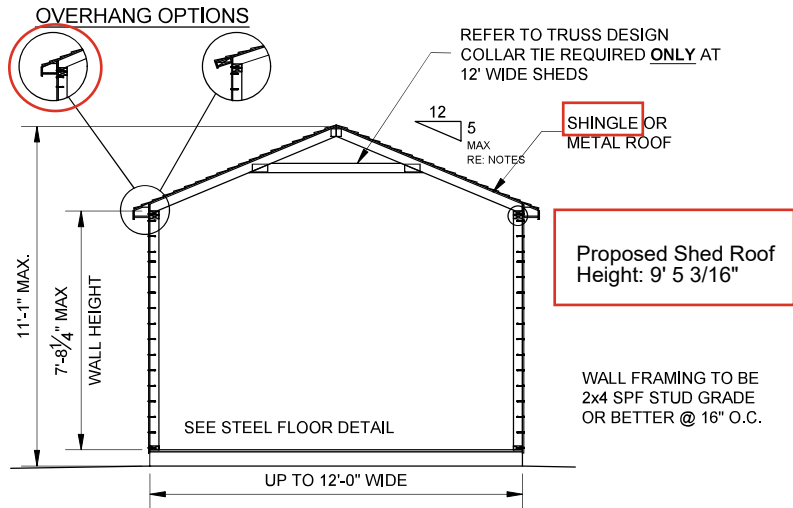
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NC-PPTR-TR800-01

REV. LEVEL 01

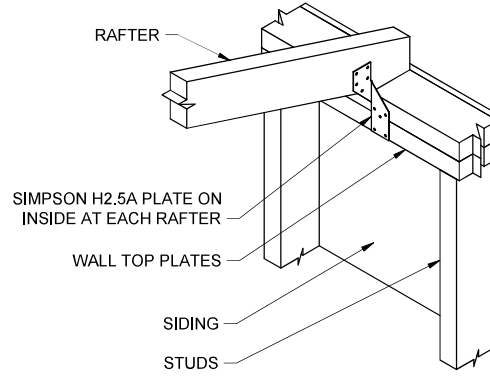
SHEET **1**

PAGE 1 OF 4

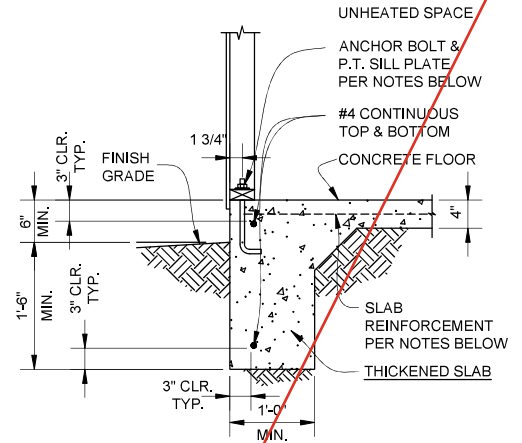
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1 BUILDING SECTION
SCALE: N.T.S.



2 TRUSS ATTACHMENT DETAIL
SCALE: N.T.S.

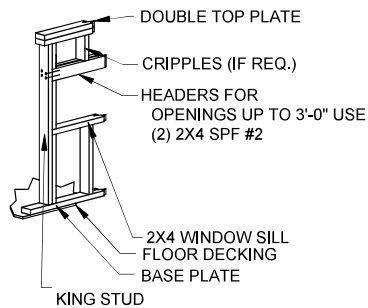


MONOLITHIC FOUNDATION

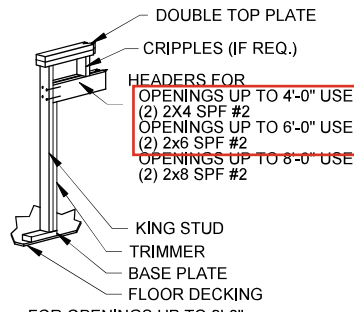
- CONTINUOUS FOOTING NOTES**
1. TOP OF CONCRETE TO BE 6" MIN. ABOVE GRADE. SLAB REINFORCEMENT SHALL BE WWF 6X6 W10XW10 PER ASTM A185. LOCATE AT MID-DEPTH OF SLAB.
 2. ALL FOOTING FORMS SHALL BE INSPECTED FOR SIZE AND REINFORCING BEFORE POURING CONCRETE.
 3. FOOTINGS SHALL BEAR ON UNDISTURBED NATURAL, COMPETENT SOIL, OR PROPERLY COMPACTED STRUCTURAL FILL. ALLOWABLE SOIL BEARING PRESSURE IS 1500 PSF AT 12" BELOW GRADE.
 4. CONCRETE: MINIMUM 28 DAY COMPRESSIVE STRENGTH, $f_c = 2500$ PSI.
 5. 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".
 6. SEISMIC DESIGN CATEGORY: C.
 - A. ATTACH PRESSURE-TREATED SILL PLATE TO THE FOOTING USING 1/2" DIA X 10" LONG L-BOLTS WITH NUTS AND WASHERS.
 - B. ANCHOR BOLTS SHALL BE EMBEDDED AT LEAST 7" INTO THE CONCRETE AND SHALL BE SPACED NOT MORE THAN 6" OC.
 - C. THERE SHALL BE A MINIMUM OF 2 BOLTS PER SILL PLATE PIECE WITH 1 BOLT LOCATED NOT MORE THAN 12" NOR LESS THAN 7 BOLT DIAMETERS FROM EACH END OF EACH PIECE.

NOTE: FOR BUILDINGS 20' 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.

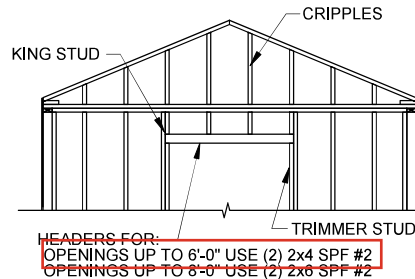
5 OPTIONAL CONCRETE FOUNDATION DETAIL
SCALE: N.T.S.



3A DOOR HEADER DETAIL FOR SIDE WALLS
SCALE: N.T.S.



3B DOOR HEADER DETAIL FOR SIDE WALLS
SCALE: N.T.S.



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

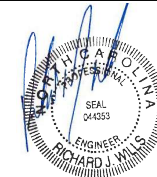


Order #:
Customer:
Site Address:
Building Size: WIDTH - LENGTH - HEIGHT - SQ. FT. AREA

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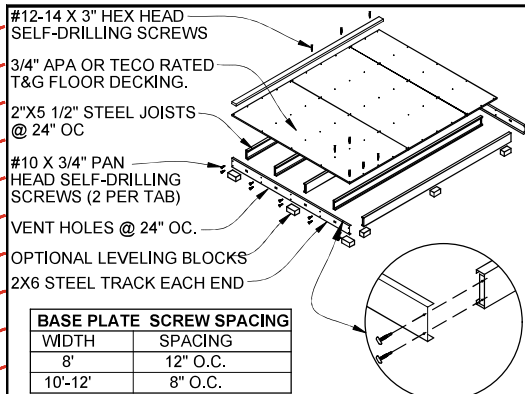
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TITLE	DRAWING NO.
GENERAL DETAILS	NC-PPTR-TR800-01
HEADER FRAMING DETAILS	REV. LEVEL 01
120 MPH, EXP. C	SHEET 2
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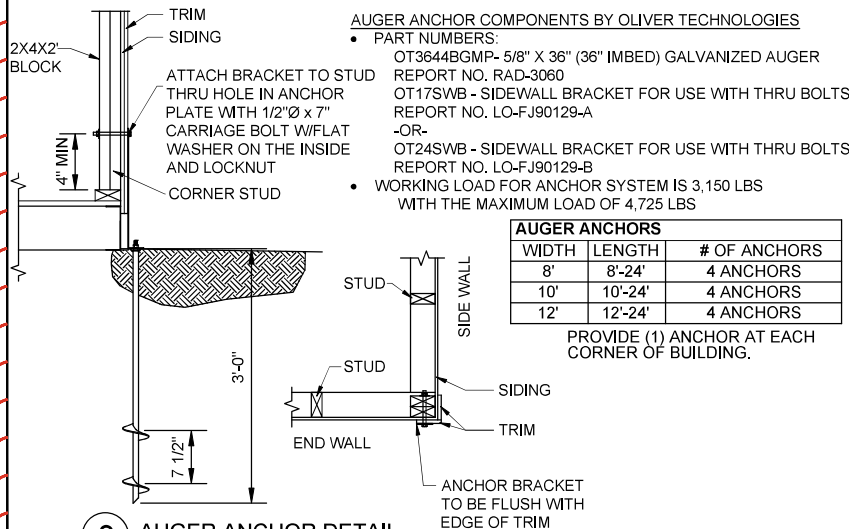
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- STEEL SHED FOUNDATION:
550T125-054 - 16 GAUGE STEEL TRACKS G140 ZINC COATED
550S137-054 - 16 GAUGE STEEL JOISTS G140 ZINC COATED @ 24" O.C.
(SUPPLIER: ALLIED STUCCO (JOIST: 550S137-054 / TRACK: 550T125-054) ICC ER-4943P.
- 3/4" APA OR TECO RATED 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.
- FASTEN SOLE PLATE THROUGH FLOOR DECKING INTO JOISTS OR TRACKS WITH #12-14 X 3" GALVANIZED SELF-DRILLING SCREWS @ 12" O.C.
- 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: 2X8 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.

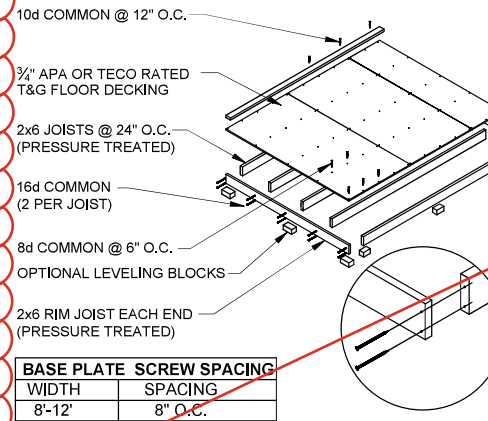
1 STEEL SHED BASE DETAIL

SCALE: N.T.S.



3 AUGER ANCHOR DETAIL

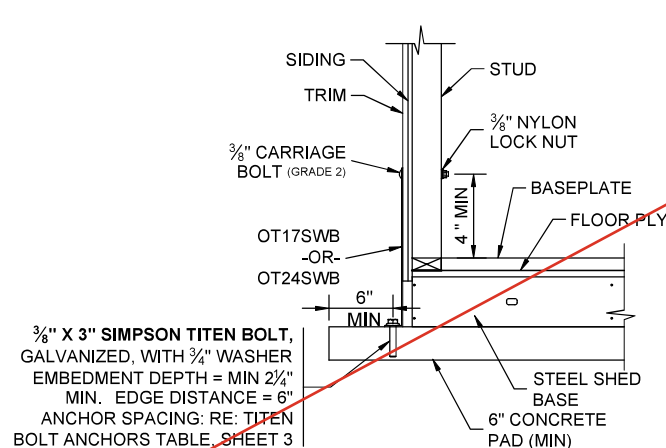
SCALE: N.T.S.



- WOOD SHED FOUNDATION:
2x6 #2 PRESSURE TREATED HEM FIR RIM JOISTS
2x6 #2 PRESSURE TREATED HEM FIR JOISTS @ 24" O.C.
- 3/4" APA OR TECO RATED TONGUE AND GROOVE FLOOR DECKING. 24" MAX PANEL SPAN. NO BLOCKING REQUIRED. ALL EDGES SHALL LIE ON FLOOR JOISTS. STAGGER PANEL LAYOUT PER APA CONDITION 1. NAIL PLYWOOD TO JOISTS AND RIM JOISTS:
BORDER: 8d COMMON SPACED @ 6" O.C.
EDGE: 8d COMMON SPACED @ 6" O.C.
FIELD: 8d COMMON SPACED @ 12" O.C.
- FASTEN SOLE PLATE THROUGH FLOOR DECKING INTO JOISTS OR RIM JOISTS WITH 10d COMMON SPACED @ 12" O.C.
- ALLOWABLE FLOOR LIVE LOAD: 40 PSF
- 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 RIM JOISTS SPACED @ 4'-0" O.C. MAXIMUM.

2 OPTIONAL WOOD SHED BASE DETAIL

SCALE: N.T.S.



TITEN HD ANCHOR BOLTS (INTO CONCRETE) RE: DETAIL 4 SHEET 3			
WIDTH	LENGTH	QTY	
8'	8'-24'	6	
10'	10'-24'	6	
12'	12'-24'	6	

- NOTES:
- ANCHORS TO BE SIMPSON TITEN HD ANCHORS. ANCHORS MAY BE GALVANIZED OR STAINLESS STEEL.
 - PROVIDE (1) ANCHOR AT EA. CORNER OF THE BUILDING. THE REMAINING ANCHORS EQUALLY SPACED ALONG THE LENGTH OF THE BUILDING. (1/2 THE REMAINING ANCHORS ON EA. LENGTH SIDE EQUALLY SPACED).

4 SIDEWALL BRACKET DETAIL

SCALE: N.T.S.



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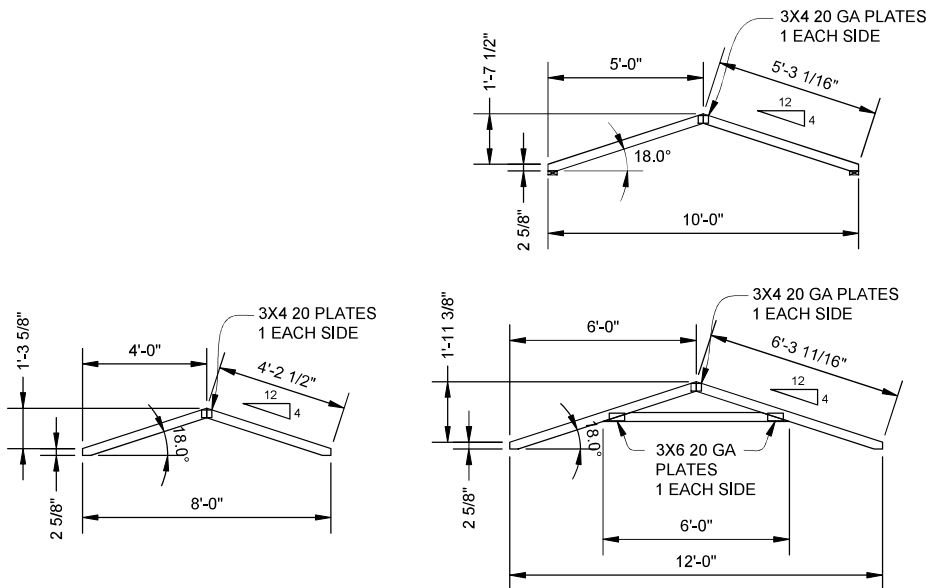
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TITLE	DRAWING NO.
GENERAL DETAILS	NC-PPTR-TR800-01
120 MPH, EXP. C	REV. LEVEL 01
	SHEET 3
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DESIGN LOADS:
TOP CHORD LIVE LOAD = 20 PSF
TOP CHORD DEAD LOAD = 10 PSF
COLLAR TIE DEAD LOAD = 5 PSF

NOTES:
2015 IBC & IRC, 2018 NCBC
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, 120 MPH, Exposure C, D.O.L.=1.60

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

8' SPAN
REACTIONS:
MAX. VERTICAL: 240 LBS.
MAX. UPLIFT: -135 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: -160 LBS.

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: -215 LBS.

NOTE:
TRUSS MAY BE USED ON BUILDING LENGTHS
UP TO 20FT 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.



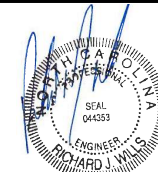
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TITLE	DRAWING NO.
TRUSS DETAILS AND CALCULATIONS	NC-PPTR-TR800-01
115 MPH, EXP. C	REV. LEVEL 01
	SHEET 4
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