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ADDRESS . . : 257 FAIRFAX DR SUBDIV: PITTMAN CROSSING PH2 22LOTS  
CONTRACTOR : WEAVER HOMES, INC. PHONE : (910) 630-2100  
OWNER . . : ALLIED DEVELOPMENT INC PHONE :  
PARCEL . . : 03-9588- - -0003- -24-  
APPL NUMBER: 17-50042398 CP NEW RESIDENTIAL (SFD)  
DIRECTIONS : T/S: 09/27/2017 12:30 PM DJOHNSON --  
PITTMAN CROSSING PHS 2 LOT 18 27 W  
ABOUT 10 MILES THEN RIGHT ONTO BARBECUE  
CHURCH RD THEN RIGHT ONTO ROSSER  
PITTMAN AND PROJECT IS ON THE LEFT.  
-----

**STRUCTURE: 000 000 63X44 3 BR 2 BTH ATT GARAGE, DECK SLAB**

FLOOD ZONE . . . . : FLOOD ZONE X  
# BEDROOMS . . . . : 3.00 PROPOSED USE . . . . : SFD  
SEPTIC - EXISTING? . . . . : NEW WATER SUPPLY . . . . : COUNTY  
-----

**PERMIT: CPSF 00 CP \* SFD**

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
B101 01	10/25/17	TSG	R*BLDG FOOTING / TEMP SVC POLE VRU #: 003043717
	10/25/17	AP	
A814 01	10/25/17	SB	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 003043726
	10/25/17	AP	257 FAIRFAX DR SANFORD 27332 (HOUSE FACES FAIRFAX DR) T/S: 10/25/2017 10:56 AM SBENNETT -----
B103 01	10/31/17	TSG	R*BLDG FOUND & TEMP SVC POLE VRU #: 003046830
	10/31/17	DA	REZ-CHECK REQUIRED TO DELETE STEM WALL INSULATION
B103 02	11/01/17	TSG	R*BLDG FOUND & TEMP SVC POLE TIME: 17:00 VRU #: 003047438
	11/01/17	AP	T/S: 10/31/2017 10:19 AM BPETRICH -----
P309 01	11/07/17	TSG	R*PLUMB UNDER SLAB VRU #: 003050174
	11/07/17	AP	
B111 01	11/09/17	TSG	R*BLDG SLAB INSP/TEMP SVC POLE VRU #: 003051084
	11/09/17	AP	T/S: 11/09/2017 03:03 PM SGUY -----
A814 02	1/03/18	SB	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 003072310
	1/03/18	AP	257 FAIRFAX DR SANFORD 27332 T/S: 01/03/2018 09:34 AM SBENNETT -----
R425 01	1/04/18	TSG	FOUR TRADE ROUGH IN VRU #: 003072882
	1/05/18	DA	SHINGLES NOT INSTALLED
I129 01	1/08/18	TSG	R*INSULATION INSPECTION VRU #: 003072891
	1/05/18	CA	JOB NOT READY, SHINGLES NOT INSTALLED T/S: 01/05/2018 03:21 PM BPETRICH ----- CANNOT HAVE INSULATION BEFORE ROUGH-IN IS PASSED OR INSPECTOR HAS LET YOU KNOW YOU CAN INSULATE T/S: 01/05/2018 03:24 PM BPETRICH ----- TRIED TO CALL 910.630.2100 BUT OFFICE WAS CLOSED - CANNOT GET UP WITH ANYONE
R425 02	1/09/18	DA	FOUR TRADE ROUGH IN VRU #: 003073694

*[Handwritten signature]*

----- COMMENTS AND NOTES -----

**Trenco**  
818 Soundside Rd  
Edenton, NC 27932

Re: J1017-4970  
Weaver / 18 Pittman Crossing / Harnett

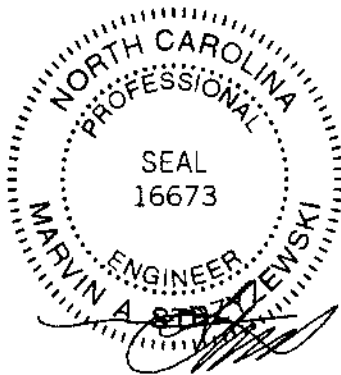
The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: E11300280 thru E11300281

My license renewal date for the state of North Carolina is December 31, 2018.

North Carolina COA: C-0844

Lumber design values are in accordance with ANSI/TPI 1 section 6.3  
These truss designs rely on lumber values established by others.



December 26, 2017

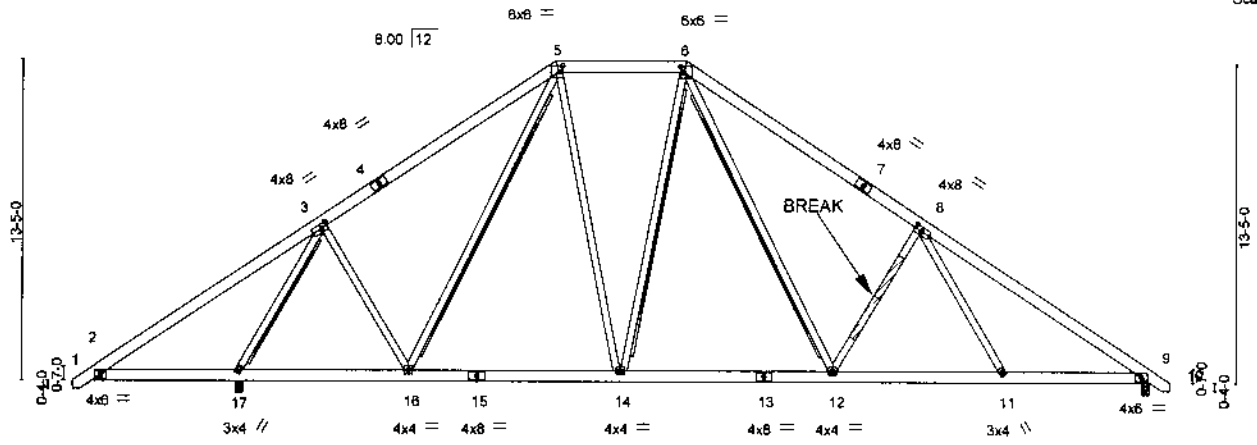
Strzyzewski, Marvin

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to Trenco. Any project specific information included is for Trenco's customer's file reference purpose only, and was not taken into account in the preparation of these designs. Trenco has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of the design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job J1017-4970	Truss A1	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Weaver / 18 Pittman Crossing / Harnett	E11300280
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Comtech, inc., Fayetteville, NC 28309  
 8.130 s Sep 15 2017 MITek Industries, Inc. Thu Dec 21 10:57:22 2017 Page 1  
 ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-eU5g24mr1Do\_UD9r2ISdvTSMnqyMQmIRbzmySy6mEB  
 24-9-0 34-4-8 44-0-0 44-10-8  
 0-10-8 9-7-8 9-7-8 5-5-15 9-7-8 9-7-8 0-10-8

Scale = 1:90.7



APPLY 2 X 4 X 4' SPF/DF/SP NO.2 SCAB TO ONE FACE OF TRUSS.  
 ATTACH WITH 2 ROWS OF 10d NAILS (0.131" X 3")  
 SPACED @ 3" O.C. USE 2" MEMBER END DISTANCE.

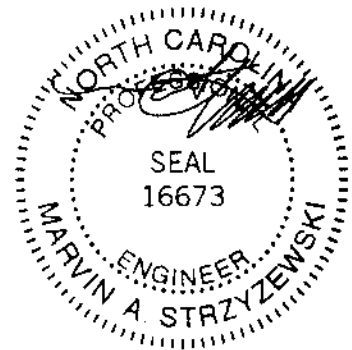
Plate Offsets (X,Y)	[3-0-3-6,0-2-1], [5-0-1-12,0-3-0], [6-0-1-12,0-3-0], [8-0-3-6,0-2-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL) -0.14 12-14 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.50	Vert(TL) -0.25 12-14 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.96	Horz(TL) 0.06 9 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.04 12 >999 240	Weight: 350 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-3-14 oc purlins, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (6-0-0 max.); 5-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 2-17.
	WEBS T-Brace: 2x4 SPF Stud - 3-17, 5-16, 6-14, 6-12
	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c. with 3in minimum end distance.
	Brace must cover 90% of web length.

**REACTIONS.** (lb/size) 17=2491/0-3-8, 9=1819/0-3-8  
 Max Horz 17=360(LC 5)  
 Max Uplift 17=282(LC 7), 9=109(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=366/694, 3-5=1579/322, 5-6=1420/361, 6-8=2381/476, 8-9=2787/333  
 BOT CHORD 2-17=425/406, 16-17=236/829, 14-16=50/1289, 12-14=0/1428, 11-12=156/2115, 9-11=129/2187  
 WEBS 3-17=2618/602, 3-16=56/674, 8-12=583/340, 8-11=0/312, 5-16=304/169, 6-12=209/931, 5-14=112/738

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; cantilever left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 5-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 282 lb uplift at joint 17 and 109 lb uplift at joint 9.
  - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



December 26, 2017

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.**  
 Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TPH Quality Criteria, DSB-89 and BCS1 Building Component Safety Information available from Truss Plate Institute, 215 N. Lee Street, Suite 312, Alexandria, VA 22314.

**TRENCO**  
 ENGINEERING BY  
 MARVIN A. STRZYZEWSKI  
 616 Soundside Road  
 Edenton, NC 27932

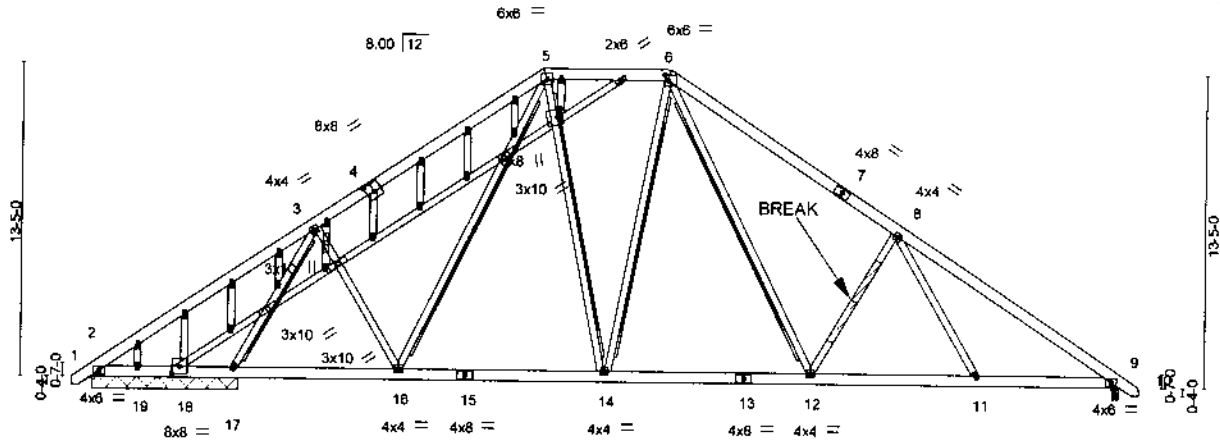
Job J1017-4970	Truss A1SE	Truss Type GABLE	Qty 1	Ply 1	Weaver / 18 Pittman Crossing / Hamlet	E11300281
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Comtech, Inc., Fayetteville, NC 28309

8 130 s Sep 15 2017 MITek Industries, Inc. Thu Dec 21 10:57:24 2017 Page 1

ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-btCQSm05Z73hjWJD9AU57uXjHedui\_jCFSstKy6mE9  
 -0-10-8 9-7-8 19-3-0 24-9-0 34-4-8 44-0-0 44-10-8  
 0-10-8 9-7-8 9-7-8 5-5-15 9-7-8 9-7-8 0-10-8

Scale = 1:93.3



APPLY 2 X 4 X 4' SPF/DF/SP NO.2 SCAB TO ONE FACE OF TRUSS.  
 ATTACH WITH 2 ROWS OF 10d NAILS (0.131" X 3")  
 SPACED @ 3" O.C. USE 2" MEMBER END DISTANCE.

Plate Offsets (X,Y) =	4:0-4:0-0-4-8]	[6:0-1-12,0-3-0]	[18:0-4-0-0-3-12]	[21:0-4-0-0-2-8]
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LOADING (psf)	SPACING- 2-0-0	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) -0.14	12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.51	Vert(TL) -0.25	12-14	>999	240		
BCLL 0.0	Rep Stress Incr YES	WB 0.82	Horz(TL) 0.07	9	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.06	12	>999	240		
							Weight: 411 lb	FT = 20%

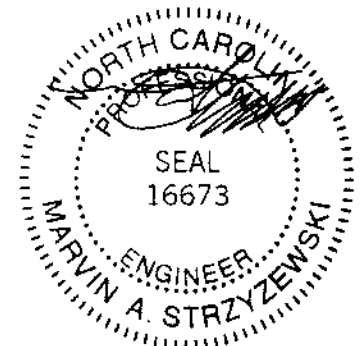
**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-3-1 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 5-6.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS T-Brace: 2x4 SPF Stud - 3-17, 6-14, 5-14, 5-16, 6-12  
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.  
 Brace must cover 90% of web length.

**REACTIONS.** All bearings 6-3-8 except (l=length) 9=0-3-8.  
 (lb) - Max Horz 2=453(LC 5)  
 Max Uplift All uplift 100 lb or less at joint(s) 18 except 2=109(LC 5), 17=406(LC 7), 9=374(LC 8), 19=194(LC 7)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 16 except 17=210(LC 1), 9=1867(LC 1), 19=319(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=226/251, 3-5=1773/575, 5-6=1500/550, 6-8=2465/726, 8-9=2870/584  
 BOT CHORD 2-19=190/269, 18-19=190/269, 17-18=190/269, 16-17=273/1071, 14-16=129/1379, 12-14=36/1498, 11-12=339/2184, 9-11=316/2255  
 WEBS 3-17=2236/562, 3-16=41/610, 8-12=582/474, 8-11=0/311, 6-14=174/255, 5-14=144/716, 6-12=338/931

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) All plates are 2x4 MT20 unless otherwise indicated.
  - 6) Gable studs spaced at 2-0-0 oc.
  - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18 except (l=lb) 2=109, 17=406, 9=374, 19=194.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



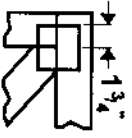
December 26, 2017

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-1473 rev. 10/03/2015 BEFORE USE.**  
 Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, D6B-99 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

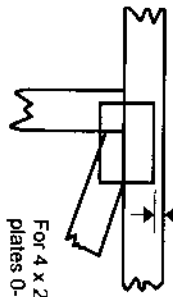
ENGINEERING BY  
**TRENCO**  
 a MITek Alliance  
 816 SoundSide Road  
 Edenon, NC 27932

# Symbols

## PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{8}$ " from outside edge of truss.



This symbol indicates the required direction of slits in connector plates.

\* Plate location details available in MITek 20/20 software or upon request.

## PLATE SIZE

4 X 4

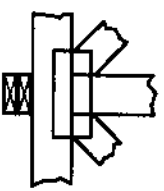
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or t bracing if indicated.

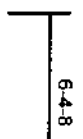
## BEARING



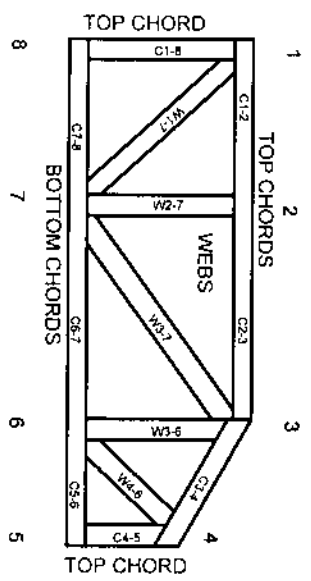
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

**Industry Standards:**  
 ANSII/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
 DSB-89: Design Standard for Bracing.  
 BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System



dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

## PRODUCT CODE APPROVALS

ICC-ES Reports:  
 ESR-1311, ESR-1352, ESR1988  
 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSII/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor1 bracing should be considered.
- Never exceed the design loading shown and never slack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSII/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSII/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reversing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSII/TPI 1 Quality Criteria.

