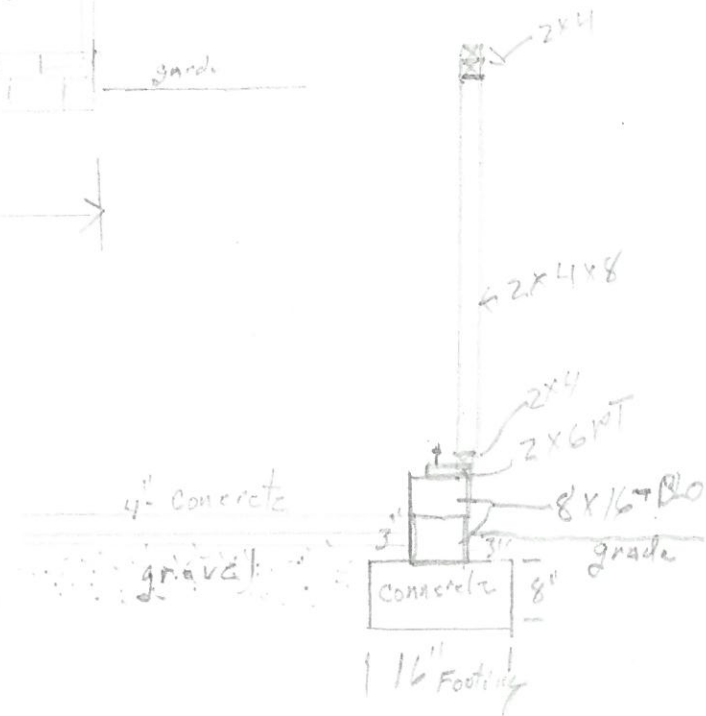


C4

HARNETT COUNTY CENTRAL PERMITTING
 APPLICATION # BRES19110-0023
 JOB NAME Brent Beasley
 DATE PLANS RECEIVED 12-31-19
 SITE PLANS APPROVED 12/20
 APPROVED BY [Signature]

- Limited Review

NOTICE TO CONTRACTOR
 All construction must comply with
 current NC Building Codes and is subject
 to field inspection and verification.



2x10 → 1/2 PLY wood.
2x10 ← 2x10
DOOR
WINDOWS
HEADERS

EX.

3/0 DOOR

window
3/0 x 4 1/2

window
3/0 x 4 1/2

8x16 Block

22' 8"
To LOT LINE

26'

4" CORR = 1" = 5 studs

1/2
Bolts

8' 4"

10'

8' 4"

10'

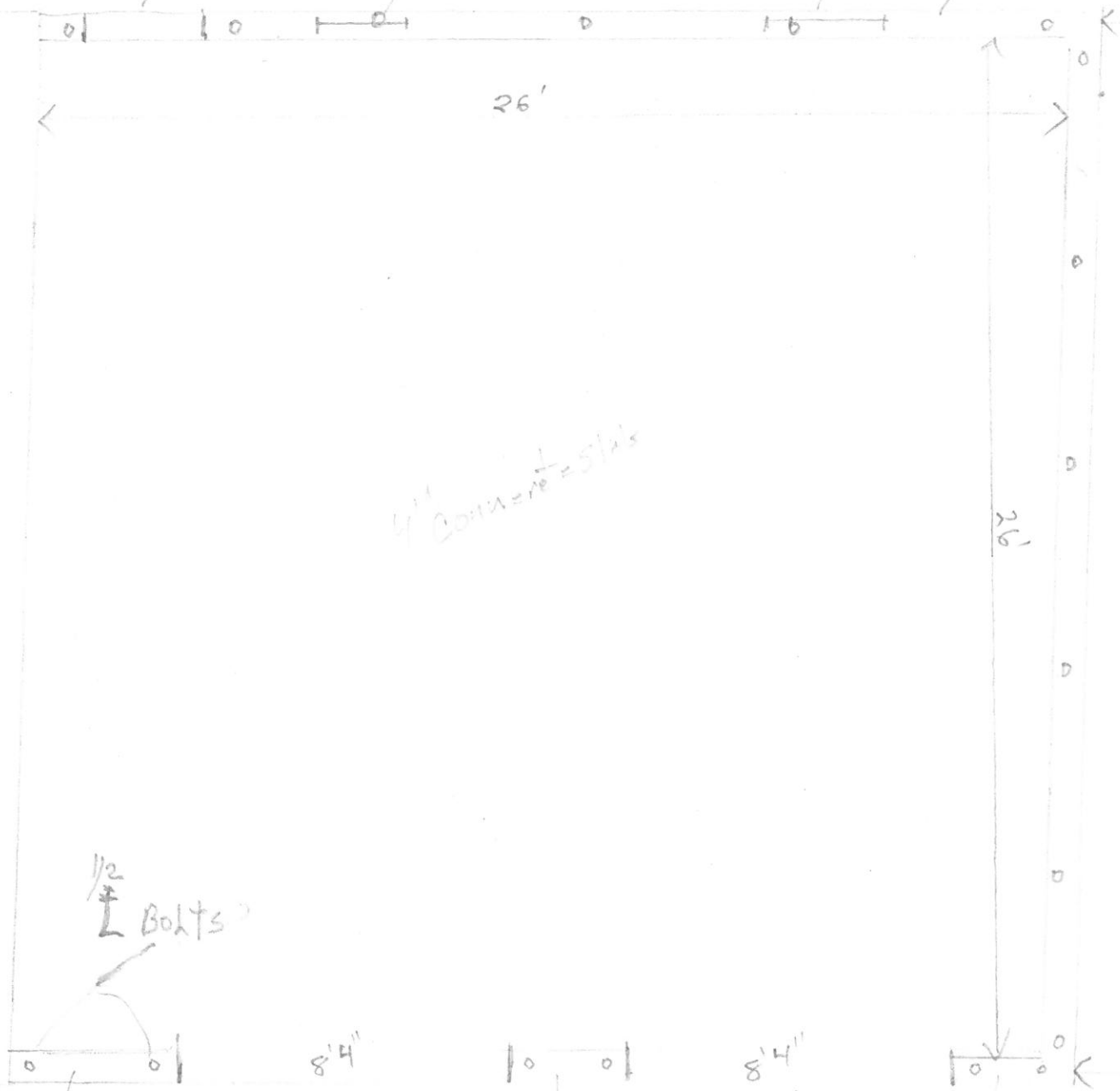
20' 6"
To LOT LINE

8x16
Block

8x16
Block

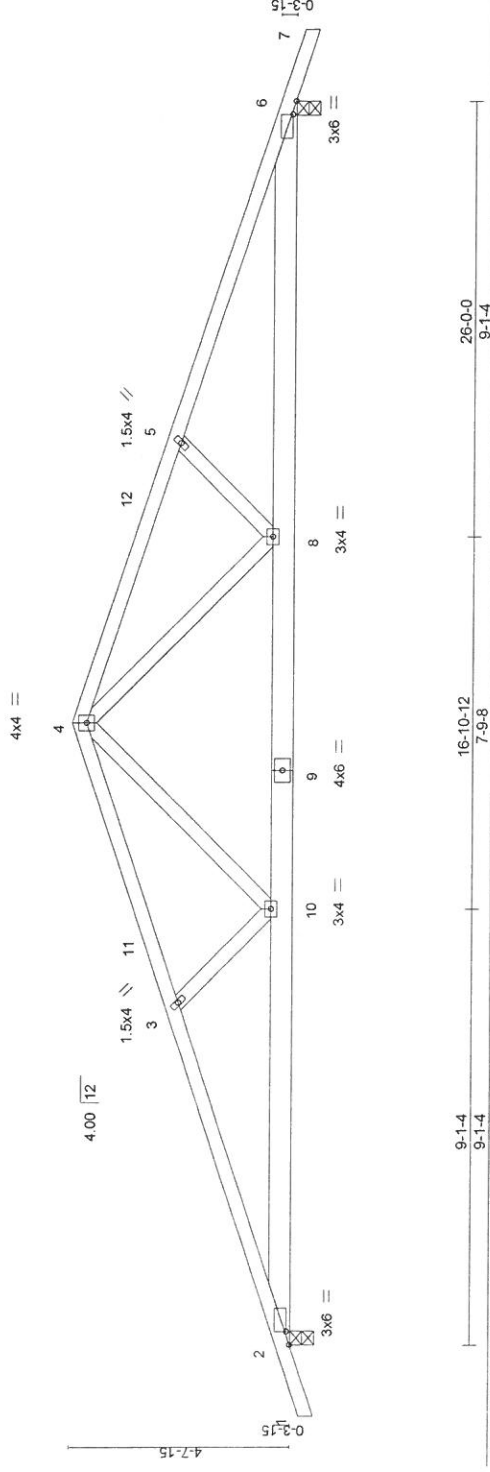
8x16
Block

Lot Line



Job	Truss	Truss Type	Qty	Ply	CLEO/MICHAEL BEASLEY	E13906626
T19-12022	T01	FINK	14	1		
Longleaf Truss Company, West End, NC - 27376, Job Reference (optional)						
-1-6-0	7-1-14	7-1-14	13-0-0	8-330 s Dec 5 2019	MiTek Industries, Inc.	Mon Dec 30 09:29:05 2019 Page 1
1-6-0	7-1-14	5-10-2	5-10-2	ID: XJUXJTP4FQ3aTZ9hniA1pYc7y->BZfVvhd4nv6AwwrXgoP SRsupPNgYUpYV5y3py		
				18-10-2	26-0-0	27-6-0
				5-10-2	7-1-14	1-6-0

Scale = 1/46.5



LOADING (psf)	SPACING-	CSI,	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 2-0-0	TC 0.42	in (oc) L/d	MT20	244/190
Snow (Pl/Pg) 7.7/10.0	Lumber DOL 1.15	WB 0.44	Vert(LL) -0.11 8-10 >999 240		
TCDL 10.0	Rep Stress Incr YES	BC 0.29	Vert(CT) -0.23 8-10 >999 180		
BCLL 0.0 *	Code IRC2018/TP12014	Matrix-S	Horz(CT) 0.05 6 n/a n/a		
BCDL 10.0					

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

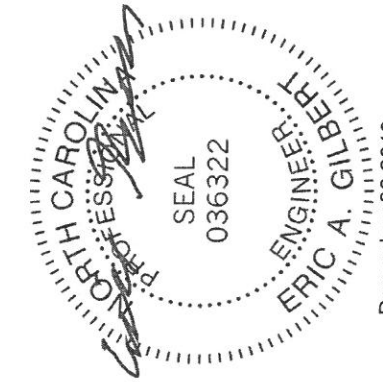
RECTIONS: (lb/size) 2=770/0-3-8, 6=770/0-3-8
 Max Horiz 2=53(LC 11)
 Max Uplift 2=40(LC 12), 6=40(LC 12)
 Max Grav 2=1127(LC 2), 6=1127(LC 2)

FORCES: (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2472/27, 3-4=-2168/10, 4-5=-2168/0, 5-6=-2472/27
 BOT CHORD 2-10=0/2286, 8-10=0/1533, 6-8=0/2286
 WEBS 3-10=-443/100, 4-10=0/699, 4-8=0/699, 5-8=-443/100

- NOTES:**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vuif=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL; Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Cf=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/ITP 1.

BRACING-
 TOP CHORD Sheathed or 3-6-6 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 131 lb FT = 20%



December 30, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabricator's responsibility for bracing of trusses and truss systems, see **ANSI/ITP Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 216 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 8118 Soundside Road
 Edenonton, NC 27632

Job	Truss	Truss Type	Qty	Ply	CLEOMICHAEL BEASLEY	E13906627
T19-42022	T02	KINGPOST	6	1		
Longleaf Truss Company, West End, NC - 27376, 8-330 s Dec 5 2019 MITEK Industries, Inc. Mon Dec 30 09:29:06 2019, Page 1						
Job Reference (optional)						
ID:XJUXTPi4F03aTZ9HmIA1pYC?Yi-007dFwOOvjKl6PslMmC0yeGGEJYVqr6Y51XySpX						
-1-6-0	6-0-0	6-0-0	12-0-0	6-0-0	13-6-0	1-6-0
1-6-0	6-0-0	6-0-0	12-0-0	6-0-0	13-6-0	1-6-0
Scale: 1/2"=1'						

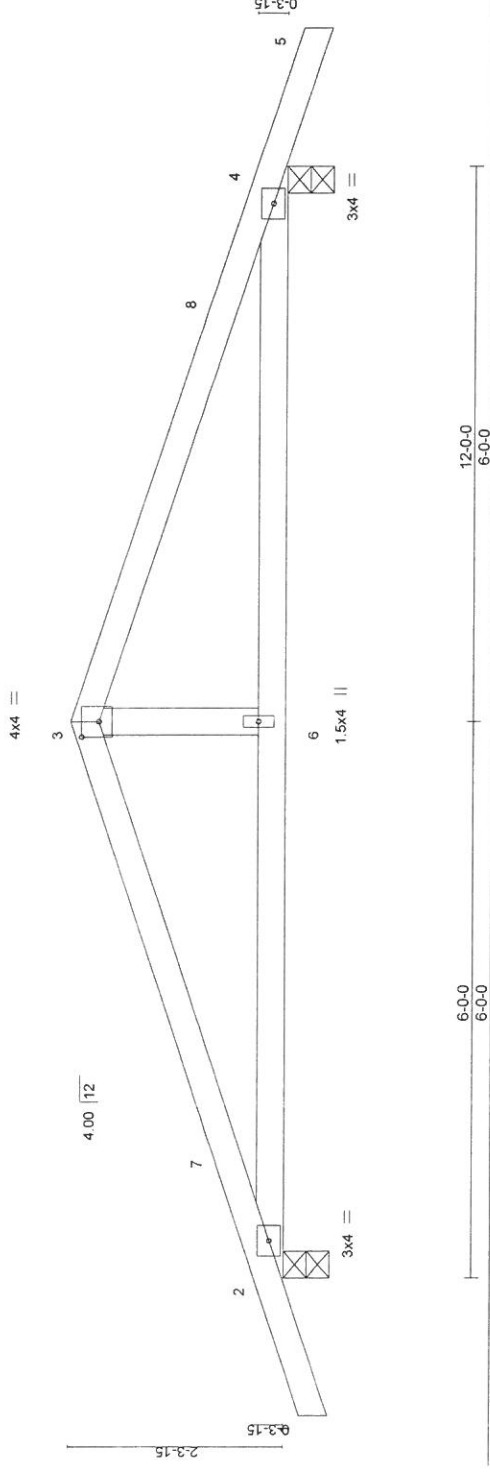


Plate Offsets (X,Y,Z)	[3,0-2,0,0-2-4]	12-0-0	6-0-0
LOADING (psf)			
TCLL (roof)	20.0		
Snow (Pf/Pg)	7.7/10.0		
TCDL	10.0		
BCLL	0.0 *		
BCDL	10.0		
LUMBER:			
TOP CHORD	2x4 SP No.1		
BOT CHORD	2x4 SP No.1		
WEBS	2x4 SP No.3		
REACTIONS:	(lb/size) 2=383/0-3-8, 4=383/0-3-8		
	Max Horz 2=28(LC 11)		
	Max Uplift 2=-40(LC 12), 4=-40(LC 12)		
	Max Grav 2=567(LC 2), 4=567(LC 2)		
FORCES:	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-3=830/0, 3-4=830/0		
BOT CHORD	2-6=0/729, 4-6=0/729		
WEBS	3-6=0/277		

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL (roof)	Plate Grip DOL	TC	Vert(LL)	-0.03	4-6	MT20	244/190
Snow (Pf/Pg)	Lumber DOL	BC	Vert(CT)	-0.07	4-6		
TCDL	Rep Stress Incr	WB	Horz(CT)	0.01	4		
BCLL	Code IRC2018/TPI2014	Matrix-S			n/a		
BCDL					n/a		
LUMBER:							Weight: 44 lb FT = 20%
TOP CHORD	2x4 SP No.1						
BOT CHORD	2x4 SP No.1						
WEBS	2x4 SP No.3						
REACTIONS:	(lb/size) 2=383/0-3-8, 4=383/0-3-8						
	Max Horz 2=28(LC 11)						
	Max Uplift 2=-40(LC 12), 4=-40(LC 12)						
	Max Grav 2=567(LC 2), 4=567(LC 2)						
FORCES:	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.						
TOP CHORD	2-3=830/0, 3-4=830/0						
BOT CHORD	2-6=0/729, 4-6=0/729						
WEBS	3-6=0/277						

- BRACING:**
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- NOTES:**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph, TCDL=6.0psf, BCDL=6.0psf, h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pf=20.0 psf (roof LL); Lum DOL=1.15 Plate DOL=1.15; Pg=10.0 psf; Pf=7.7 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - All bearings are assumed to be User Defined crushing capacity of 425 psi. will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANS/ITPI 1.



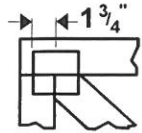
December 30, 2019



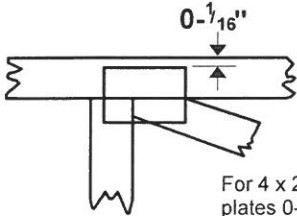
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 installation, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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 0-¹/₁₆" from outside edge of truss.



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

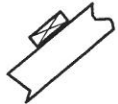
* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 x 4

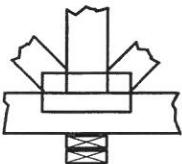
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



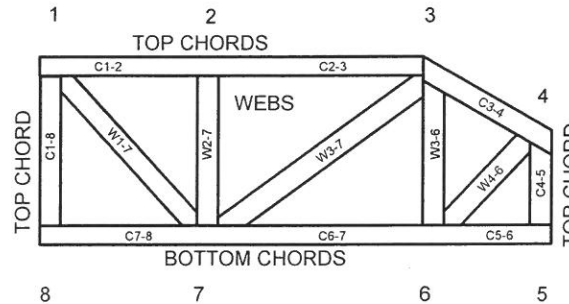
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

- ANSI/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

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED 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 ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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