

Dixieline

LUMBER & HOME CENTERS

Components

Innovation Design Development

5/8/2019

Bray & Larques Res
202 Wembley Court
Santa Rosa, Ca

OFFICE

J1809673

Reviewed for Code Compliance
County of Sonoma
PRMD

SEP 09 2019

Resiliency Permit Center

Bakersfield Sales & Design Office
3129 Allen Rd. Ste. B
Bakersfield, CA 93314
Phone (661) 535-6375 - Fax (661) 535-6385



Thank you for choosing Builders FirstSource (BFS) as your truss and components supplier. These components have been designed for your specific project requirements and job location. Reading and understanding all information included in this package prior to installation is important to help insure a successful and safe project. Contact your BFS representative if you have further questions or if you need further information.

Notes:

1. The sole responsibility of Builders FirstSource (BFS) is to design and supply individual trusses and components to the dimensions and design criteria provided to BFS by the customer. The design of the remaining portions of the building is the responsibility of the building designer, engineer of record, or the customer / contractor in the absence of a design professional.
2. The design and specification of the permanent and temporary bracing is the responsibility of the building designer per TPI-1 as referenced in the building code. The bracing documents we provide are the general minimum standards and should be verified or adapted by others as necessary for the specific project.
3. All wood component products supplied by BFS shall be used in dry service applications (Moisture Content < 19%) unless noted otherwise.
4. The plies of multi-ply trusses are to be attached together by the installer per the fastener schedule on the specific truss drawing.
5. The building designer, engineer of record, or customer shall resolve any issues or connections between trusses and other structural members not provided or specified by BFS when needed.
6. Truss placement plans and truss drawings are the property of BFS and may not be used or reproduced without the written approval of BFS. Products remain property of BFS until paid in full.
7. Install trusses per the BFS placement plan, industry standards, and code requirements. Install recommended floor truss strongbacks at 10' o.c. Do not install trusses upside down. Avoid conflicts with plumbing & other trades. A
8. Truss drawings indicate standard loads and added loads in the load cases section. Do not apply structural loads to any truss if that load is not shown on the truss drawing. Verify stick framed roof loads transfer where allowed & designed for.

Erection and Bracing:

The customer accepts full responsibility for the handling, storage, erection, installation, and bracing of these components and shall supervise any subcontractor or other party that is carrying out this work. We have included industry standard erection, temporary bracing, and fall protection information as a minimum guideline. However, BFS is not responsible for ensuring that these minimum guidelines are enforced and that they are applicable to the project. Please note that short members, such as 22-1/2" 2x4's, connecting 2 trusses do not count as bracing.

Stability:

Until the building is completely built and sheathed in accordance with the project plans by the building designer / engineer of record and meets code and local requirements, it may be unstable and present a safety hazard unless properly braced. The builder / framer shall build and properly brace the structure by floor - do not build additional stories of construction on a poorly braced structure below. Instability may increase with building dimensions - particularly height.

Winds:

Buildings under construction may be vulnerable to high winds. The builder and framer shall consider all weather conditions including the potential for winds when deciding to set trusses. If high winds are expected, truss erection should be postponed or a consulting engineer should specify additional temporary bracing required to meet the possible conditions.

Issues:

If you encounter any jobsite installation issues that appear to involve the modification of the truss or component, please contact your BFS representative immediately. The representative will determine the nature of the issue and help facilitate its remedy. Do not make alterations or repairs prior to receiving repair details or instructions from BFS. If the issue is manufacturing related, BFS reserves the right to repair or replace the component in question. If the component in question is not structurally stable, install additional shoring to insure project safety.

Charge Backs:

Charge backs will not be accepted unless agreed upon by an authorized BFS representative prior to the repair or modification in question. It is the responsibility of the contractor to inform BFS of any error, problem, or defect prior to or during setting of the components. In the event of a charge back, an authorization number will be given by BFS for an agreed upon specific amount to resolve the issue. This authorization number must accompany any charge back to BFS to be valid.



**TIMBER
PRODUCTS
INSPECTION**

October 26, 2016

Dixieline Components
300 N. American
Shafter, CA 93263

To Whom It May Concern,

Timber Products Inspection, Inc. is proud to announce that the following truss manufacturing facility, Dixieline Components is a subscriber to our nationally accredited "Truss Quality Auditing Program".

The TP Truss Quality Auditing Program is accredited under the IAS AA696 Evaluation Report and conforms to requirements for independent inspection of trusses under the International Building Code and International Residential Code.

The TP program involves daily in-plant quality control checks by plant personnel and periodic unannounced inspections by TP personnel for conformance to engineering and industry standards for fabricators. The TP quality stamp on each truss bearing the registered GTI log is your assurance that the trusses were fabricated in accordance with the TP Truss Quality Auditing Program and applicable sections of the IBC and IRC. Specific design loads and installation requirements are not covered by the TP Auditing Program.

Please note that the quality programs are automatically renewed unless requested otherwise. Any questions about this program, the facilities status in the program or the use of the TP registered quality stamps should be directed to Timber Products Inspection, Inc. at (770) 922-8000.

Sincerely,
Timber Products Inspection

Patrick C. Edwards, P.E.
Director of Engineering



MiTek USA, Inc.
250 Klug Circle
Corona, Ca. 92880
Telephone 951/245-9525
Fax 951/273-0040

December 9, 2016

Brian Barrick
Dixieline Components

Re: Sprinkler Dead Loads on Trusses

Dear Brian,

The purpose of this letter is to offer an opinion as to whether the dead load from a 2" Diameter PVC sprinkler pipe supported on the bottom chord exceeds the standard uniform design dead load on a metal plate connected wood truss of 10 psf.


If the actual bottom chord dead load of materials are:

2x4 or 2x6 bottom chord at 24" o.c.	1.75 psf
½" Drywall	2.0 psf
12" rolled fiberglass insulation	3.6 psf
Total	7.35 psf

The calculated dead load of a 2" Schedule 40 wet sprinkler pipe is 2.1 plf. Based on an area of influence of 2'-0" along the span of the truss, the sprinkler pipe weight would add 1.05 psf to the bottom chord. This 1.05 psf falls within the design dead load of 10 psf as noted above. This assumes the pipe to be connected every 2 feet so the load is uniformly distributed.

This letter does not address any live loads that may be required for sprinklers.

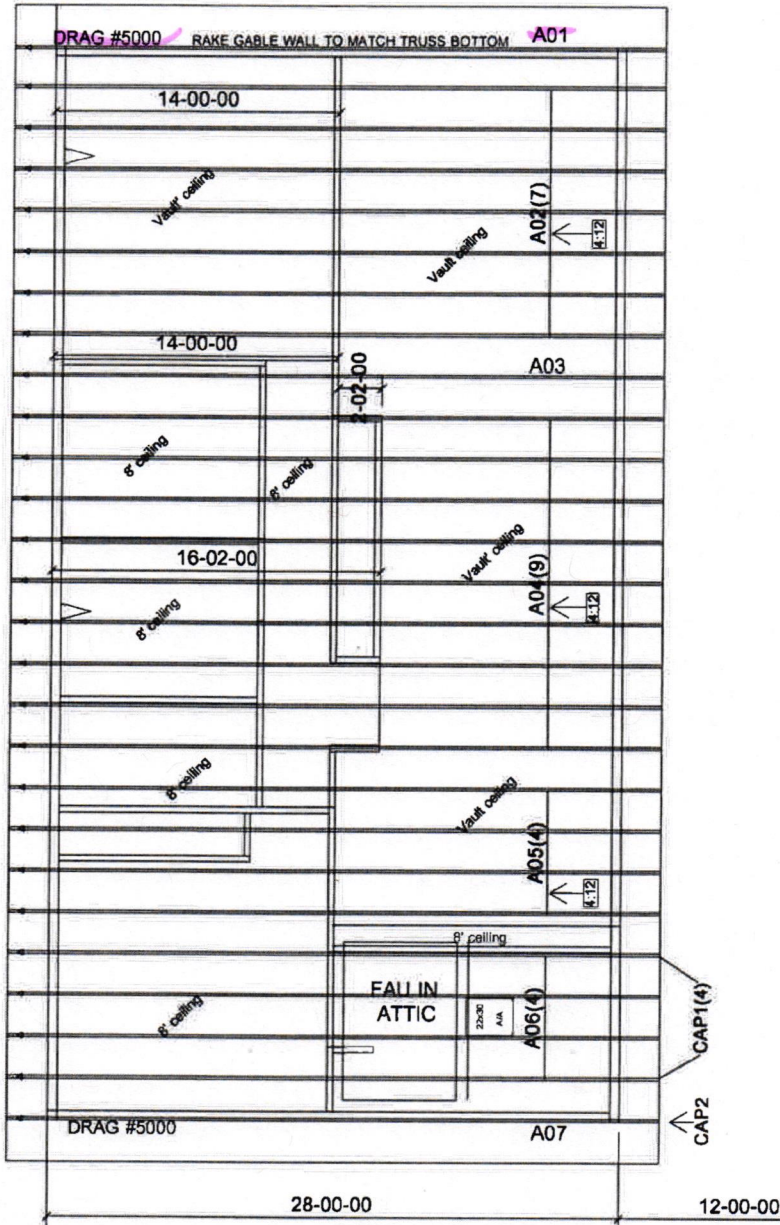
Very truly yours,


David Baxter, P.E., S.E.
Senior Structural Engineer
MiTek USA

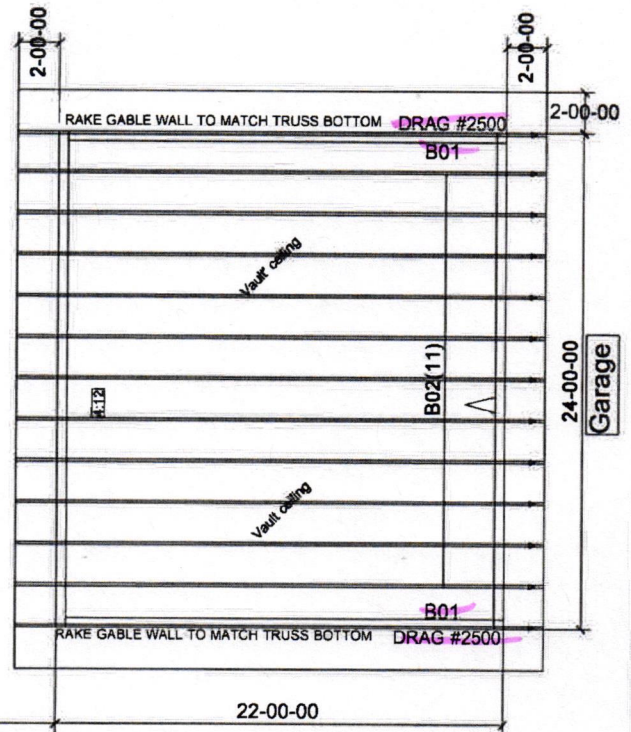
DB/jt



12/09/2016



BLOCKS
(114) - 2X6 SOLID BLOCKS



Job No:	J1809673	Pitch:	4/12
Project:	Bray & Larque		
Plan:	Single		
Location:	Santa Rosa, CA		
Date:	7/1/2019:		
Designer:	Rene Ramirez		

Dixieline
LUMBER & HOME CENTERS

Components

3129 Allen Rd. Ste. B Bakersfield, CA 93314
O: (661) 535-6375 F: (661) 535-6385



MiTek USA, Inc.

250 Klug Circle
Corona, CA 92880
951-245-9525

Re: BrayLarqueRes
Bray/Larque Res - Santa Rosa, CA

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Dixieline, a BFS Company.

Pages or sheets covered by this seal: K5573797 thru K5573805

My license renewal date for the state of California is September 30, 2020.



January 7, 2019

Zhao, Xiaoming

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	Bray/Larque Res - Santa Rosa, CA	K5573797
Bray/Larque Res	A01	GABLE	1	1	Job Reference (optional)	

Dixieline Components, Bakersfield, Ca. 93314
 8,220 s Nov 16 2018 MiTek Industries, Inc. Mon Jan 7 15:44:16 2019 Page 1
 ID:V3a5RgwZfPfe9dcGfDIXiy4QrJ-G_BwDDxOEPUIf6zQb625CI?TgMXUMIo9X79HyMzxiJD

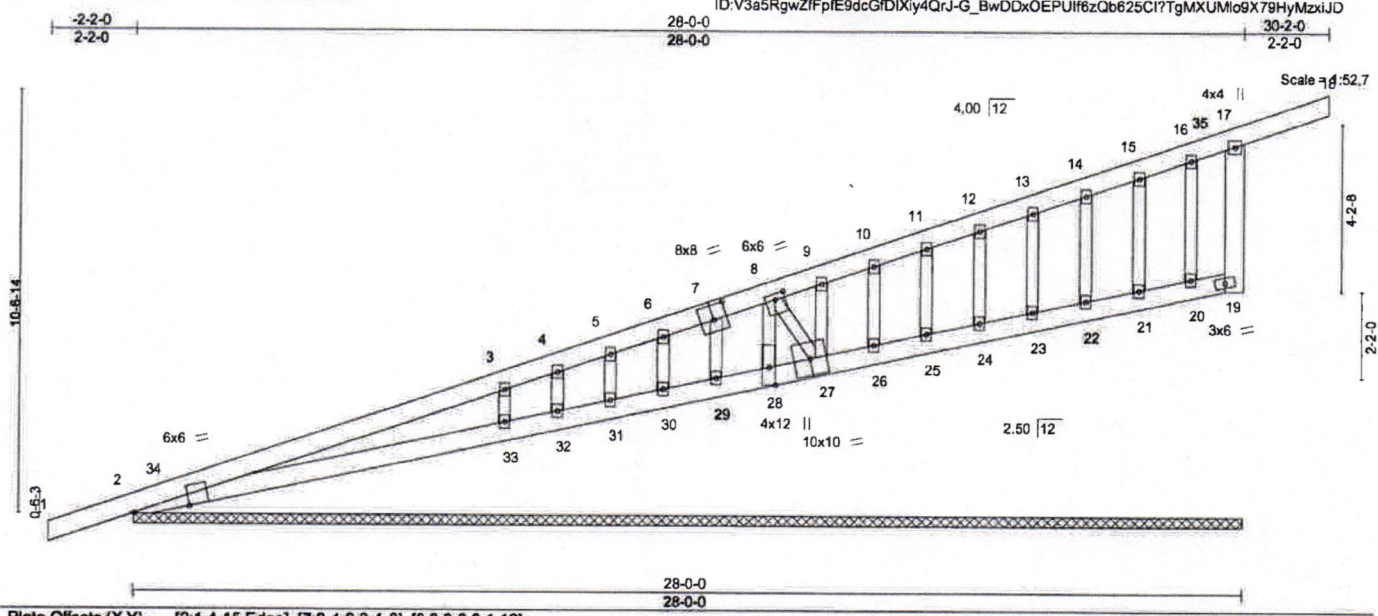


Plate Offsets (X,Y) -- [2:1-4-15,Edge], [7:0-4-0,0-4-8], [8:0-3-0,0-1-12]

LOADING (psf)	SPACING-	2-0-0	CSI,	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.28	Vert(LL)	0.00	18	n/r	MT20	220/195
TCDL 16.0	Lumber DOL	1.25	BC 0.25	Vert(CT)	-0.01	18	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.48	Horz(CT)	-0.02	19	n/a		
BCDL 10.0	Code IBC2015/TP12014		Matrix-SH						

Weight: 184 lb FT = 20%

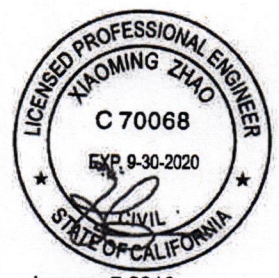
LUMBER-	TOP CHORD	2x6 DF SS G	BRACING-	TOP CHORD	Structural wood sheathing directly applied or 4-11-3 oc purlins, except end verticals.
BOT CHORD	2x6 DF SS G		BOT CHORD	Rigid ceiling directly applied or 5-0-15 oc bracing.	
WEBS	2x6 DF SS G *Except*				
	8-27: 2x4 DF No. 1&8 Br G				
OTHERS	2x4 DF Std G *Except*				
	8-28: 2x4 DF No. 1&8 Br G				

REACTIONS. All bearings 28-0-0.
 (lb) - Max Horz 2=400(LC 29)
 Max Uplift All uplift 100 lb or less at joint(s) 31, 30, 25, 24, 23, 22, 21 except
 19=-460(LC 30), 2=-457(LC 27), 33=-405(LC 36), 32=-659(LC 1), 29=-305(LC 35),
 28=-3190(LC 49), 27=-3278(LC 36), 26=-163(LC 36), 20=-331(LC 37)
 Max Grav All reactions 250 lb or less at joint(s) 32, 31, 30, 26, 25, 24, 23, 22, 21
 except 19=465(LC 47), 2=640(LC 48), 33=1240(LC 1), 29=356(LC 46), 28=3350(LC 36), 27=3156(LC 47), 20=388(LC 44)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3108/2945, 3-4=-1225/1039, 4-5=-963/895, 5-6=-691/623, 6-7=-401/340,
 7-8=-259/225, 8-9=-2218/2136, 9-10=-2095/2020, 10-11=-1765/1699, 11-12=-1516/1455,
 12-13=-1248/1194, 13-14=-978/930, 14-15=-711/664, 15-16=-463/387, 17-19=-352/287
BOT CHORD 2-33=-2854/2643, 32-33=-1148/1056, 31-32=-894/872, 30-31=-653/613, 29-30=-409/351,
 28-29=-304/298, 27-28=-569/514, 26-27=-1859/1866, 25-26=-1644/1601,
 24-25=-1400/1381, 23-24=-1157/1138, 22-23=-914/895, 21-22=-689/650, 20-21=-433/415
WEBS 3-33=-856/478, 4-32=-201/386, 7-29=-343/315, 8-28=-3348/3248, 9-27=-509/475,
 8-27=-3914/3999

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-2-0 to 0-10-0, Interior(1) 0-10-0 to 30-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) 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/TP1 1.
 - 3) All plates are 3x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 1-4-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) A plate rating reduction of 20% has been applied for the green lumber members.

Continued on page 2



January 7, 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 fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek
 250 Klug Circle
 Corona, CA 92860

Job	Truss	Truss Type	Qty	Ply	Bray/Larque Res - Santa Rosa, CA	K5573797
BrayLarqueRes	A01	GABLE	1	1	Job Reference (optional)	

Dixieline Components, Bakersfield, Ca. 93314

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jan 7 15:44:17 2019 Page 2
 ID:V3a5RgwZfFpE9dcGfDIXy4QrJ-kAIIrZY0?c9HFYc9pZkKvXePmj5C2ImnvqUozxjC

NOTES-

- 9) Bearing at joint(s) 19, 26, 25, 24, 23, 22, 21, 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 31, 30, 25, 24, 23, 22, 21 except (j=lb) 19=460, 2=457, 33=405, 32=659, 29=305, 28=3190, 27=3278, 26=163, 20=331.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 19, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20.
- 12) This truss has been designed for a total drag load of 5000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 28-0-0 for 178.6 plf.

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 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

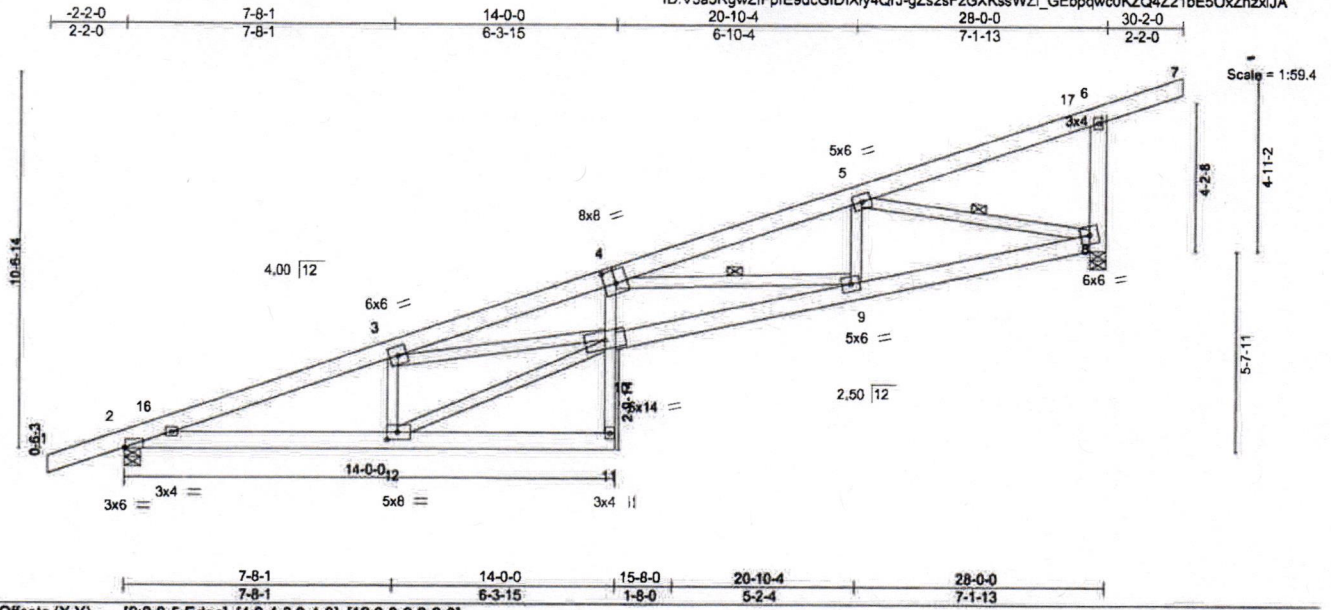


250 Klug Circle
 Corona, CA 92680

Job	Truss	Truss Type	Qty	Ply	Bray/Larque Res - Santa Rosa, CA	K5573799
BrayLarqueRes	A03	MONOPITCH	1	1		

Dixieline Components, Bakersfield, Ca. 93314

8,220 s Nov 16 2018 MiTek Industries, Inc. Mon Jan 7 15:44:19 2019 Page 1
 ID:V3a5RgwZFpfE9dcGfDIXiy4QrJ-gZs2sFzGXKssWZl_GEBpqwOKZQ4Z21bE5OxZhxxJA



LOADING (psf)		SPACING-		CSI		DEFL.		PLATES		GRIP					
TCLL	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	0.27	In (loc)	11	l/def	>999	L/d	240	MT20	220/195
TCDL	18.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.75		11		>443		180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.09		8	n/a	n/a				
BCDL	10.0	Code	IBC2015/TPI2014	Matrix	MSH										

Weight: 191 lb FT = 20%

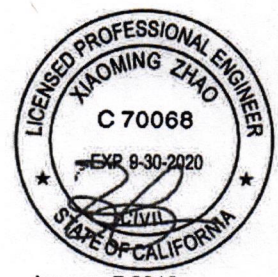
LUMBER-
 TOP CHORD 2x6 DF SS G
 BOT CHORD 2x6 DF SS G *Except*
 WEBS 2x4 DF Std G *Except*
 OTHERS 2x6 DF SS G

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-8-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-11-15 oc bracing.
 WEBS 1 Row at midpt 4-9, 5-8

REACTIONS. (lb/size) 2=1432/0-5-8, 8=1451/0-5-8
 Max Horz 2=399(LC 8)
 Max Uplift 2=-368(LC 8), 8=-442(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3003/636, 3-4=-4988/1380, 4-5=-2662/705, 6-8=-406/244
 BOT CHORD 2-12=-894/2809, 4-10=-44/509, 9-10=-1523/4779, 8-9=-778/2565
 WEBS 3-12=-1079/468, 10-12=-933/2948, 3-10=-619/1886, 4-9=-2188/736, 5-9=-95/757,
 5-8=-2496/799

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-2-0 to 0-10-0, Interior(1) 0-10-0 to 30-2-0 zone; cantilever left and right exposed; and vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) A plate rating reduction of 20% has been applied for the green lumber members.
 - 5) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=368, 8=442.



January 7, 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 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 ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 216 N. Lee Street, Suite 312, Alexandria, VA 22314.

250 Klug Circle
 Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	Bray/Larque Res - Santa Rosa, CA	K5573800
BrayLarqueRes	A04	MONOPITCH	9	1		

Dixieline Components, Bakersfield, Ca. 93314

8,220 s Nov 16 2018 MITek Industries, Inc. Mon Jan 7 15:44:20 2019 Page 1
 ID:V3a5RgwZfFpE9dcGfDIXiy4QrJ-BIQR3b_ule_bjHbQy62M89Avzk9ITWkS17U57zxiJ9

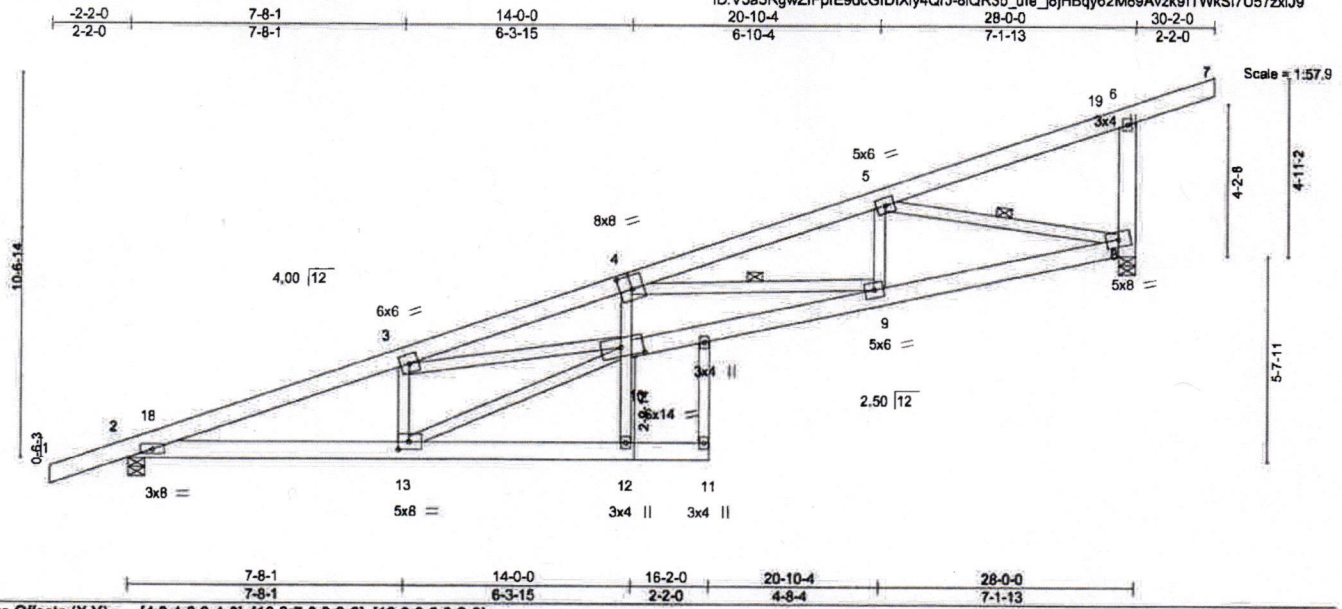


Plate Offsets (X,Y)--	[4:0-4-0,0-4-8], [10:0-7-8,0-3-0], [13:0-3-9,0-2-8]
-----------------------	---

LOADING (psf)	SPACING-	2-0-0	16-2-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25		TC 0.20	Vert(LL)	0.31	11	>999	240	MT20	220/195
TCDL 16.0	Lumber DOL	1.25		BC 0.91	Vert(CT)	-0.91	11	>366	180		
BCLL 0.0 *	Rep Stress Incr	YES		WB 0.82	Horz(CT)	0.10	8	n/a	n/a		
BCDL 10.0	Code	IBC2015/TPI2014		Matrix-MSH							
										Weight: 199 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 DF SS G	TOP CHORD Structural wood sheathing directly applied or 3-7-9 oc purlins.
BOT CHORD 2x6 DF SS G *Except*	BOT CHORD Rigid ceiling directly applied or 7-3-1 oc bracing. Except:
WEBS 2x4 DF Std G *Except*	WEBS 10-0-0 oc bracing: 10-12
OTHERS 2x6 DF SS G	WEBS 1 Row at midpt 4-9, 5-8

REACTIONS. (lb/size) 2=1453/0-5-8, 8=1477/0-5-8
 Max Horz 2=399(LC 8)
 Max Uplift 2=-355(LC 8), 8=-427(LC 12)


FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3065/598, 3-4=-5178/1265, 4-5=-2729/664, 6-8=-405/244
 BOT CHORD 2-13=-857/2868, 4-10=-14/611, 9-10=-1413/4961, 8-9=-738/2632
 WEBS 3-13=-1118/445, 10-13=-893/3007, 3-10=-544/2008, 4-9=-2302/667, 5-9=-76/818,
 5-8=-2562/759

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-2-0 to 0-10-0, Interior(1) 0-10-0 to 30-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) A plate rating reduction of 20% has been applied for the green lumber members.
 - 5) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=355, 8=427.



January 7, 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 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 ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



250 Klug Circle
 Corona, CA 92680

Job	Truss	Truss Type	Qty	Ply	Bray/Larque Res - Santa Rosa, CA	K5573801
Bray/LarqueRes	A05	MONOPITCH	4	1		

Dixieline Components, Bakersfield, Ca. 93314

8,220 s Nov 18 2018 MiTek Industries, Inc, Mon Jan 7 15:44:21 2019 Page 1
 ID:V3a5RgwZfFpFE9dcGfDIXiy4QrJ-cy_pHw?WzY6altsNOfdHvLlKVN4k1uOuhPt2ZzxJ8

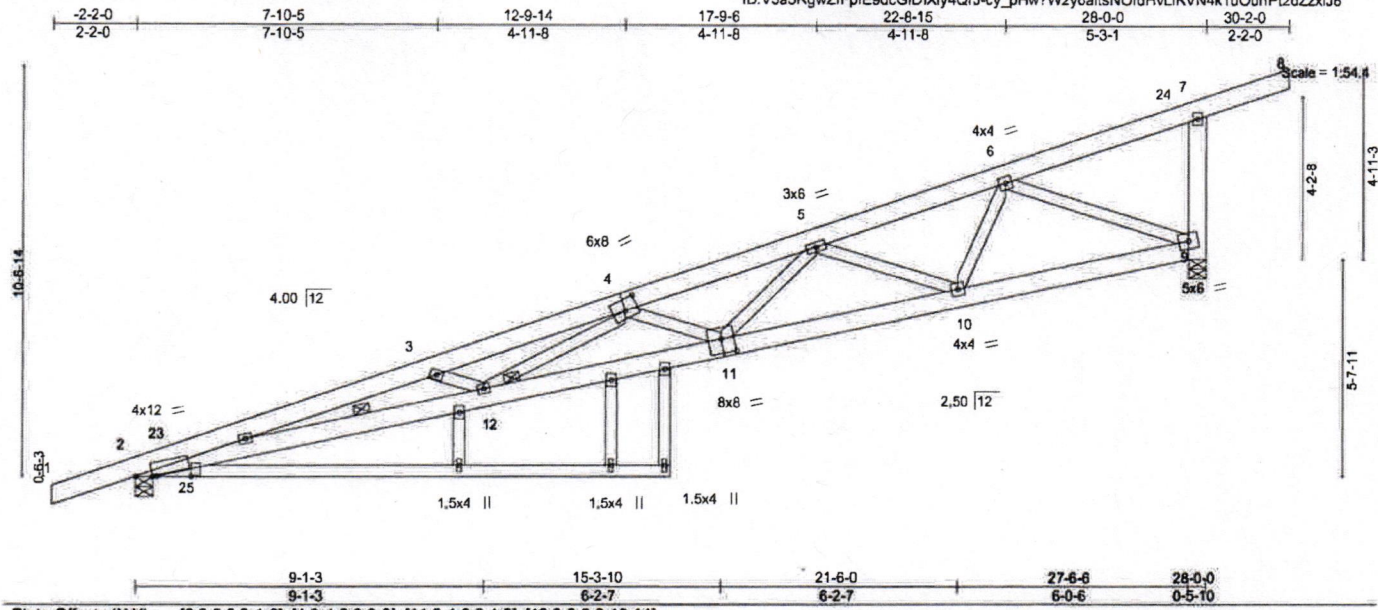


Plate Offsets (X,Y)-- [2-0-5-3,0-1-2], [4-0-4-0,0-3-8], [11-0-4-0,0-4-8], [13-0-0-0,0-10-14]

LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.27	in (loc) l/defl L/d	MT20	220/195
TCDL 16.0	Lumber DOL 1.25	BC 0.95	Vert(LL) 0.36 11-12 >928 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.90	Vert(CT) -1.00 11-12 >333 180		
BCDL 10.0	Code IBC2015/TPI2014	Matrix-MSH	Horz(CT) 0.14 9 n/a n/a		
				Weight: 204 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 DF SS G	TOP CHORD Structural wood sheathing directly applied or 3-2-5 oc purlins.
BOT CHORD 2x6 DF SS G *Except*	BOT CHORD Rigid ceiling directly applied or 8-2-2 oc bracing. Except:
13-14: 2x4 DF No.1&Btr G	6-0-0 oc bracing: 2-12
WEBS 2x4 DF Std G	6-8-0 oc bracing: 11-12
OTHERS 2x6 DF SS G	JOINTS 1 Brace at Jt(s): 12

REACTIONS. (lb/size) 2=1409/0-5-8, 9=1451/0-5-8
 Max Horz 2=399(LC 8)
 Max Uplift 2=380(LC 8), 9=444(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-6322/1791, 3-4=-5949/1633, 4-5=-4417/1213, 5-6=-2284/610, 7-9=-372/231
 BOT CHORD 2-12=-2024/6086, 11-12=-1663/5094, 10-11=-1114/3484, 9-10=-543/1776
 WEBS 3-12=-369/249, 4-12=-159/799, 4-11=-915/390, 5-11=-277/1136, 5-10=-1395/511, 6-10=-249/1084, 6-9=-1826/610

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-2-0 to 0-10-0, Interior(1) 0-10-0 to 30-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) A plate rating reduction of 20% has been applied for the green lumber members.
 - 6) Bearing at joint(s) 2, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=380, 9=444.



January 7, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

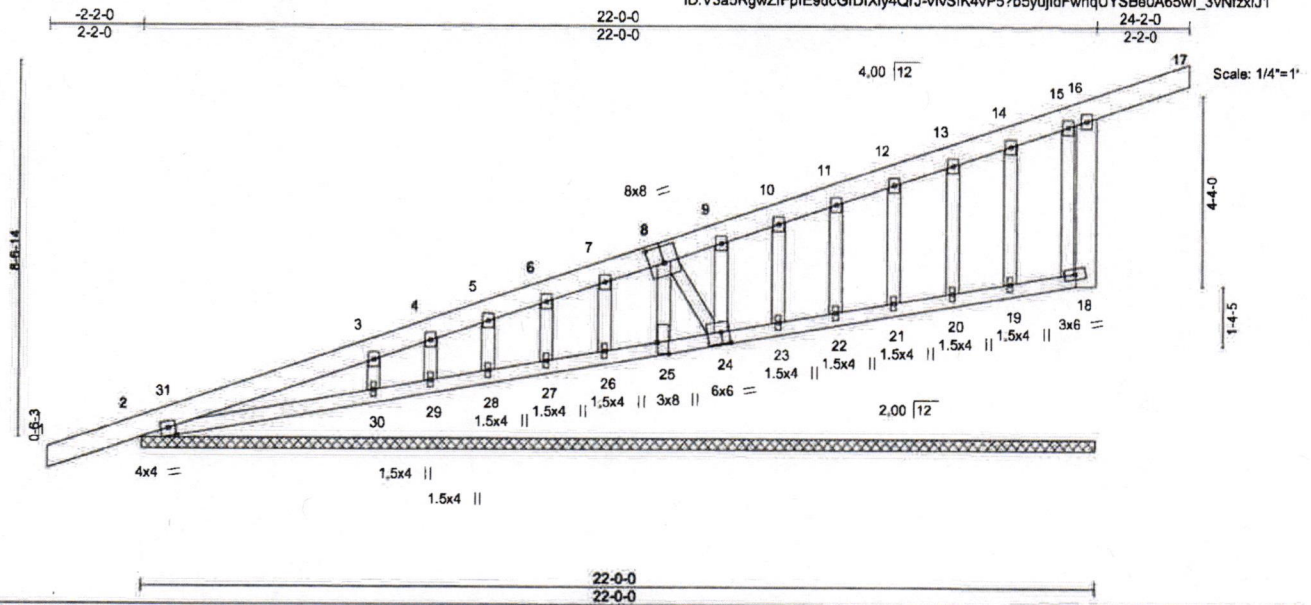
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 210 N. Lee Street, Suite 312, Alexandria, VA 22314.

250 Klug Circle
 Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	Bray/Larque Res - Santa Rosa, CA	K5573804
BrayLarqueRes	B01	GABLE	2	1		

Dixieline Components, Bakersfield, Ca, 93314

8,220 s Nov 16 2018 MITek Industries, Inc. Mon Jan 7 15:44:28 2019 Page 1
ID:V3a5RgwZfPfe9dcGfDIXiy4QrJ-vlvSIK4vP5?b5yujldFwhqUYSBe0A65wl_3vNtzzjJ1



LOADING (psf)		SPACING-		CSI,		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	0.00	17	n/r	120	220/195
TCDL	16.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	-0.01	17	n/r	120	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	-0.02	18	n/a	n/a	
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-SH							
Weight: 139 lb FT = 20%											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x6 DF SS G *Except*
8-24: 2x4 DF Std G
OTHERS 2x4 DF Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-5-3 oc bracing.

REACTIONS. All bearings 22-0-0.
(lb) - Max Horz 2=329(LC 29)
Max Uplift All uplift 100 lb or less at joint(s) 29, 28, 23, 22, 21, 20 except
18=-272(LC 30), 19=-168(LC 37), 30=-188(LC 36), 27=-124(LC 28), 26=-337(LC 35), 25=-1244(LC 49), 24=-1438(LC 28), 2=-369(LC 27)
Max Grav All reactions 250 lb or less at joint(s) 19, 29, 28, 27, 23, 22, 21, 20
except 18=343(LC 1), 30=466(LC 1), 26=390(LC 48), 25=1353(LC 32),
24=1385(LC 45), 2=492(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 16-18=-383/313, 2-3=-1805/1667, 3-4=-1070/961, 4-5=-893/813, 5-6=-728/652,
6-7=-507/440, 7-8=-454/390, 8-9=-1234/1162, 9-10=-1133/1067, 10-11=-921/864,
11-12=-755/703, 12-13=-576/529, 13-14=-412/339, 14-15=-286/240
BOT CHORD 2-30=-1533/1506, 29-30=-917/890, 28-29=-744/733, 27-28=-607/590, 26-27=-453/437,
25-26=-300/283, 23-24=-984/968, 22-23=-833/817, 21-22=-680/664, 20-21=-526/510,
19-20=-373/358
WEBS 3-30=-359/240, 7-26=-387/353, 8-25=-1322/1255, 9-24=-337/302, 15-18=-295/304,
8-24=-1804/1865

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Pr, Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-2-0 to 0-10-0, Interior(1) 0-10-0 to 24-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) 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.
 - 3) All plates are 3x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 1-4-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) A plate rating reduction of 20% has been applied for the green lumber members.
 - 9) Bearing at joint(s) 18, 19, 23, 22, 21, 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.



January 7, 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 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 ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MITek
250 Klug Circle
Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	Bray/Larque Res - Santa Rosa, CA	K5573804
BrayLarqueRes	B01	GABLE	2	1	Job Reference (optional)	

Dixieline Components, Bakersfield, Ca, 93314

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jan 7 15:44:28 2019 Page 2
 ID:V3a5RgwZlFpfE9dcGfdIXiy4QrJ-vlVSIK4vP5?b5yujldFwhqUYSBe0A65wI_3vNfzxiJ1

NOTES-

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 28, 23, 22, 21, 20 except (j=l) 18=272, 19=168, 30=188, 27=124, 26=337, 25=1244, 24=1438, 2=369.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 18, 19, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20.
- 12) This truss has been designed for a total drag load of 2500 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 22-0-0 for 113.6 plf.

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 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 **ANSI/TPI1 Quality Criteria, DSB-88 and BCSI Building Component Safety Information** available from Truss Plate Institute, 216 N. Lee Street, Suite 312, Alexandria, VA 22314.



250 Klug Circle
 Corona, CA 92680

Job	Truss	Truss Type	Qty	Ply	Bray/Larque Res - Santa Rosa, CA	K5573805
BrayLarqueRes	B02	MONOPITCH	11	1		

Dixieline Components, Bakersfield, Ca. 93314

8.220 s Nov 16 2018 MITek Industries, Inc. Mon Jan 7 15:44:29 2019 Page 1
 ID:V3a5RgwZfPpE9dcGIDIXy4QrJ-NUTqyf5YAP7Sj5TvsLm9E11iObuRveh3KepTv6zxiJ0

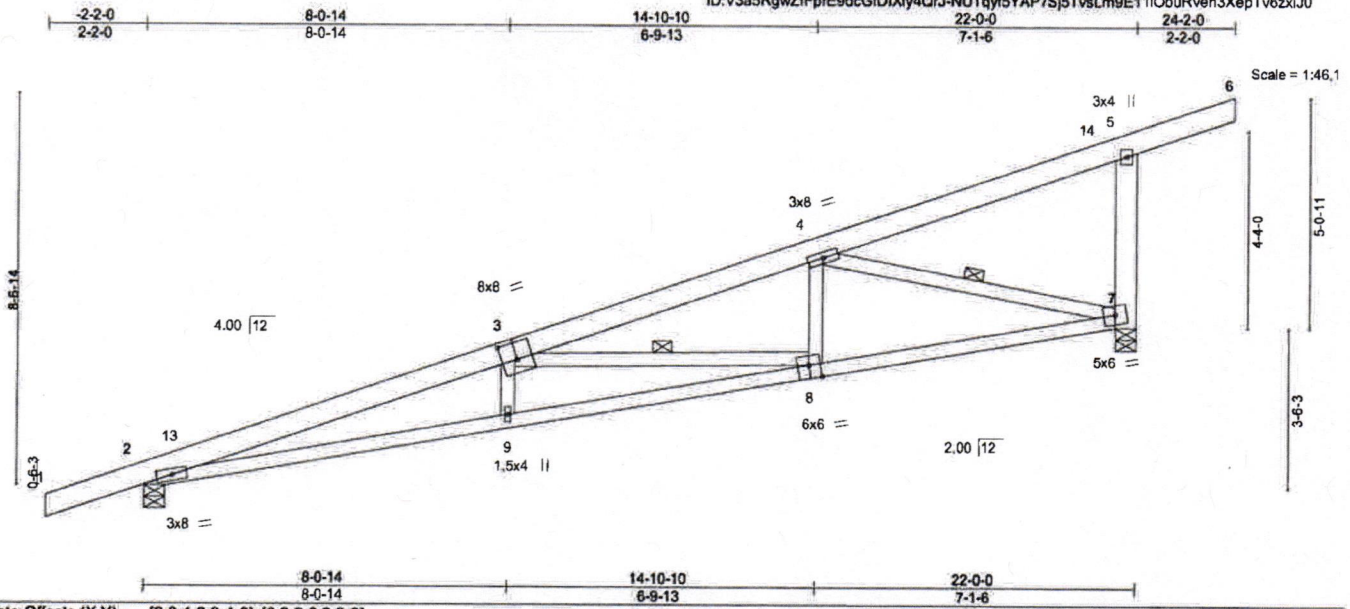


Plate Offsets (X,Y)-	[3-0-4-0,0-4-8], [8-0-3-0,0-3-8]
----------------------	----------------------------------

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.22	Vert(LL)	0.19	8-9	>999	240	MT20	220/195
TCDL 16.0	Lumber DOL	1.25	BC 0.51	Vert(CT)	-0.54	8-9	>486	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.43	Horz(CT)	0.12	7	n/a	n/a		
BCDL 10.0	Code IBC2015/TPI2014		Matrix-MSH							

LUMBER-	BRACING-
TOP CHORD 2x6 DF SS G	TOP CHORD Structural wood sheathing directly applied or 4-4-7 oc purlins, except end verticals.
BOT CHORD 2x4 DF No. 1&Btr G	BOT CHORD Rigid ceiling directly applied or 6-6-10 oc bracing.
WEBS 2x4 DF Std G *Except* 5-7: 2x6 DF SS G	WEBS 1 Row at midpt 3-8, 4-7

REACTIONS. (lb/size) 2=1155/0-5-8, 7=1176/0-5-8
 Max Horz 2=326(LC 9)
 Max Uplift 2=-308(LC 8), 7=-356(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3456/885, 3-4=-1991/498, 5-7=-411/243
 BOT CHORD 2-9=-1036/3247, 8-9=-1043/3244, 7-8=-556/1855
 WEBS 3-9=0/256, 3-8=-1349/481, 4-8=-28/555, 4-7=-1830/598

NOTES-

- 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-2-0 to 0-10-0, Interior(1) 0-10-0 to 24-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) A plate rating reduction of 20% has been applied for the green lumber members.
- 5) Bearing at joint(s) 2, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=308, 7=356.



January 7, 2019

<p>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 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 ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	 250 Klug Circle Corona, CA 92680
--	---



MiTek USA, Inc.

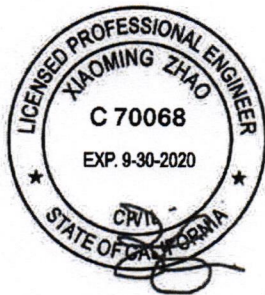
250 Klug Circle
Corona, CA 92880
951-245-9525

Re: BrayLarqueRes
Bray/Larque Res - Santa Rosa, CA

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Dixieline, a BFS Company.

Pages or sheets covered by this seal: K6268188 thru K6268191

My license renewal date for the state of California is September 30, 2020.



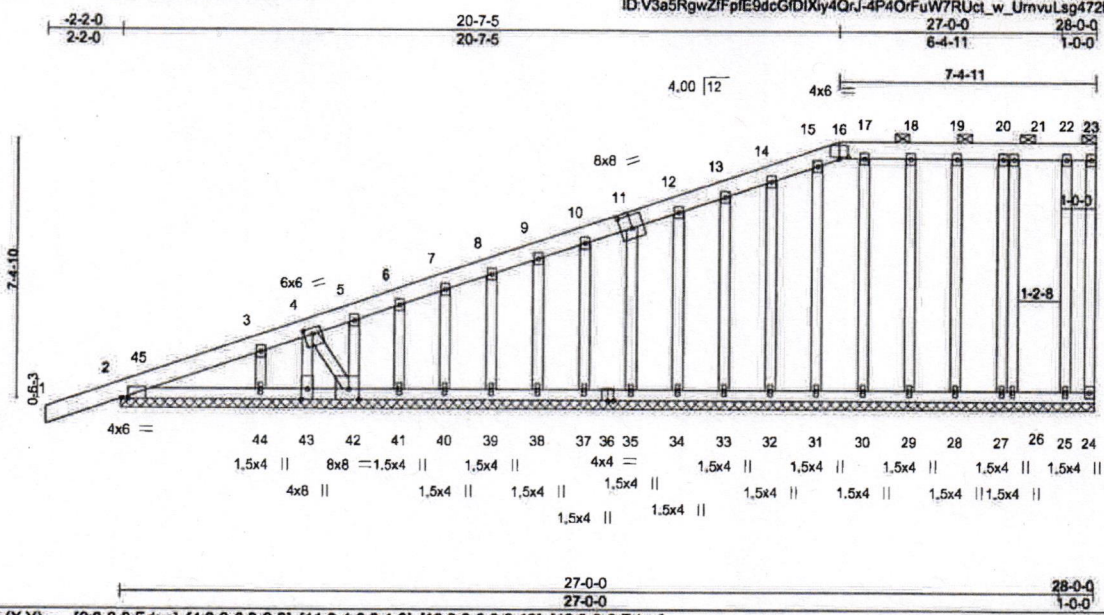
June 18, 2019

Zhao, Xiaoming

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 MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or 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 design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	Bray/Larque Res - Santa Rosa, CA	K6268189
BrayLarqueRes	A07	GABLE	1	1		
Dixieline Components, Bakersfield, Ca. 93314						Job Reference (optional)

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 17 19:15:22 2019 Page 1
 ID:V3a5RgwZfFpIE9dcGDIXy4QrJ-4P4OrFuW7RUct_w_UrnvuLsg472fOai2QikDRUz5HdZ



Scale = 1:59.9

Plate Offsets (X,Y)- [2:0-2-8,Edge], [4:0-3-0,0-2-0], [11:0-4-0,0-4-8], [16:0-3-0,0-0-10], [42:0-3-9,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.83	Vert(LL)	-0.00	1	n/r	MT20	220/195
TCDL 16.0	Lumber DOL	1.25	BC 0.42	Vert(CT)	-0.01	1	n/r		
BCLL 0.0	Rep Stress Incr	YES	WB 0.45	Horz(CT)	-0.07	24	n/a		
BCDL 10.0	Code IBC2015/TPI2014		Matrix-SH						

Weight: 241 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 DF SS G	TOP CHORD Structural wood sheathing directly applied or 3-11-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 16-23.
BOT CHORD 2x4 DF No.1&Btr G	BOT CHORD Rigid ceiling directly applied or 3-4-12 oc bracing.
WEBS 2x4 DF Std G *Except* 4-42: 2x4 DF No.1&Btr G	
OTHERS 2x4 DF Std G *Except* 4-43: 2x4 DF No.1&Btr G	

REACTIONS. All bearings 28-0-0.
 (lb) - Max Horz 2=297(LC 33)
 Max Uplift All uplift 100 lb or less at joint(s) 40, 39, 38, 37, 34, 33, 32, 29, 28, 27, 26 except 24=-134(LC 34), 44=-334(LC 35), 43=-3037(LC 45), 42=-2650(LC 28), 41=-129(LC 28), 35=-101(LC 28), 31=-245(LC 30), 30=-237(LC 30), 2=-1133(LC 27), 25=-181(LC 27)
 Max Grav All reactions 250 lb or less at joint(s) 24, 41, 40, 39, 38, 37, 35, 34, 33, 32, 29, 28, 27, 26, 25 except 44=444(LC 46), 43=3095(LC 36), 42=2631(LC 45), 31=287(LC 47), 30=274(LC 47), 2=1207(LC 46)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3378/3219, 3-4=-2640/2520, 4-5=-4416/4287, 5-6=-4279/4160, 6-7=-3950/3846, 7-8=-3695/3602, 8-9=-3420/3339, 9-10=-3128/3075, 10-11=-2887/2810, 11-12=-2632/2559, 12-13=-2376/2270, 13-14=-2128/2047, 14-15=-1840/1786, 15-16=-1533/1503, 16-17=-1417/1395, 17-18=-1264/1242, 18-19=-1049/1022, 19-20=-787/765, 20-21=-573/551, 21-22=-509/495
 BOT CHORD 2-44=-2943/2954, 43-44=-2290/2240, 42-43=-2028/1978, 41-42=-3904/3881, 40-41=-3665/3643, 39-40=-3427/3405, 38-39=-3189/3167, 37-38=-2951/2929, 35-37=-2713/2691, 34-35=-2477/2454, 33-34=-2238/2216, 32-33=-2000/1978, 31-32=-1762/1740, 30-31=-1524/1502, 29-30=-1286/1264, 28-29=-1048/1026, 27-28=-810/788, 26-27=-572/544, 25-26=-491/494
 WEBS 3-44=-463/402, 4-43=-3085/3032, 5-42=-496/472, 15-31=-302/280, 17-30=-285/280, 4-42=-3658/3731

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -2-2-0 to 0-10-0, Exterior(2) 0-10-0 to 27-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 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.
 - Provide adequate drainage to prevent water ponding.
- Ground plate may be MT20 unless otherwise indicated.



June 18, 2019

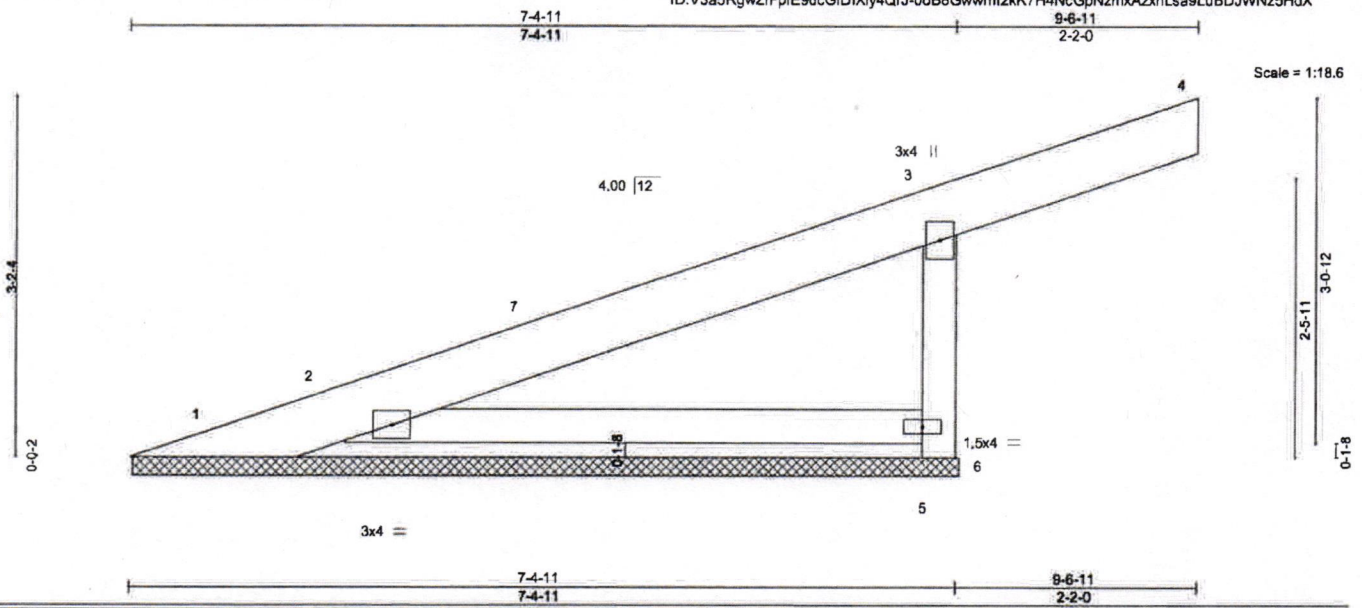
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 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 ANSI/TPI 1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

250 Klug Circle
 Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	Bray/Larque Res - Santa Rosa, CA	K6268190
BrayLarqueRes	CAP1	MONO PIGGYBACK	4	1	Job Reference (optional)	

Dixieline Components, Bakersfield, Ca, 93314

8,220 s Nov 16 2018 MiTek Industries, Inc. Mon Jun 17 19:15:24 2019 Page 1
ID:V3a5RgwZfPFE9dcGfDIXy4QrJ-0oB8Gwwmf2kK7H4NcGpNzmxAzxnLsa9LuBDJWNz5HdX



Scale = 1:18.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.17	Vert(LL)	0.01	4	n/r	MT20	220/195
TCDL 18.0	Lumber DOL	1.25	BC 0.22	Vert(CT)	0.00	4	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IBC2015/TP12014		Matrix-P						
								Weight: 32 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Std G

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 1=-60/7-4-11, 6=0/7-4-11, 2=403/7-4-11, 5=422/7-4-11
Max Horz 1=117(LC 9)
Max Uplift 1=-60(LC 1), 2=-169(LC 12), 5=-123(LC 9)
Max Grav 1=84(LC 12), 2=403(LC 1), 5=422(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-369/250

NOTES-

- 1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-8-14 to 3-8-14, Interior(1) 3-8-14 to 9-6-11 zone; cantilever left and right exposed; end vertical left and right exposed, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) A plate rating reduction of 20% has been applied for the green lumber members.
- 6) Bearing at joint(s) 1, 6, 2, 5 considers parallel to grain value using ANSI/TP1 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 2=169, 5=123.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



June 18, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

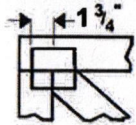
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is 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 ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek

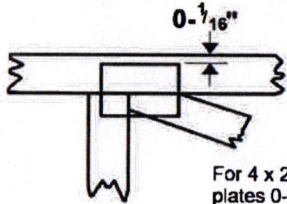
250 Klug Circle
Corona, CA 92880

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- $\frac{1}{16}$ " from outside edge of truss.



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

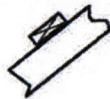
* Plate location details available in MiTek 20/20 software or upon request.

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

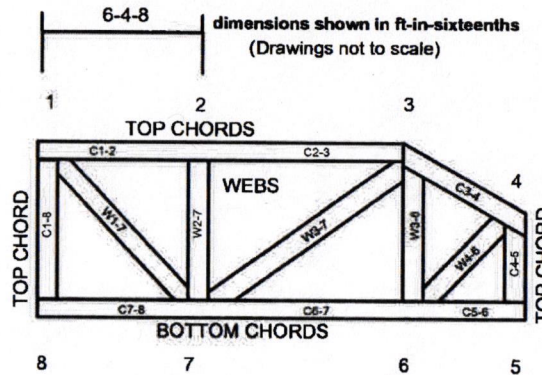


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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



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.

© 2012 MiTek® All Rights Reserved

MiTek
MiTek

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.

Dixieline

LUMBER & HOME CENTERS

Components

Standard Details

Please Also Refer To: BCSI-B1

**Bakersfield Sales & Design Office
3129 Allen Rd. Ste. B
Bakersfield, CA 93314
Phone (661) 535-6375 - Fax (661) 535-6385**



MiTek USA, Inc.
250 Klug Circle
Corona, Ca. 92880
Telephone 951/245-9525
Fax 951/273-0040

January 11, 2018

Dixieline Components
3129 Allen Rd. Ste. B
Bakersfield, CA 93314

Re: Fastening of multi-ply trusses

To whom it may Concern:

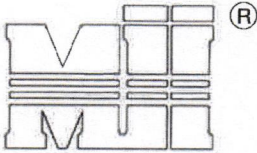
Multi-ply girder trusses are to be connected together using the nailing schedule provided by Mitek 2000 software. Two-ply trusses may be nailed from one face. For three-ply trusses, the first two plies are nailed together from one face. The third ply is then attached to either face of the first two. Four-ply trusses are attached in the same as three-ply trusses, with the four ply attached to either face of the first three. In addition to the nailing specified for four-ply trusses, 6" long structural screws are required such as USP WS6 or equivalent. Refer to MiTek standard ST-4PLY SCREW for special detail.

If you have any further questions, please do not hesitate to call.

Sincerely,


David Baxter, P.E., S.E.
Sr. Structural Engineer
MiTek USA





MiTek USA, Inc.
ENGINEERED BY
TRENCO
A MiTek Affiliate

NOTES:

1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END AS SHOWN.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE BOTTOM CHORD SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

TOE-NAIL SINGLE SHEAR VALUES PER NDS 2005 (lb/nail)						
	DIAM.	SP	DF	HF	SPF	SPF-S
3.5" LONG	.131	88.1	80.6	69.9	68.4	59.7
	.135	93.5	85.6	74.2	72.6	63.4
	.162	118.3	108.3	93.9	91.9	80.2
3.25" LONG	.128	84.1	76.9	66.7	65.3	57.0
	.131	88.1	80.6	69.9	68.4	59.7
	.148	106.6	97.6	84.7	82.8	72.3
3.0" LONG	.120	73.9	67.6	58.7	57.4	50.1
	.128	84.1	76.9	66.7	65.3	57.0
	.131	88.1	80.6	69.9	68.4	59.7
	.148	106.6	97.6	84.7	82.8	72.3

VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

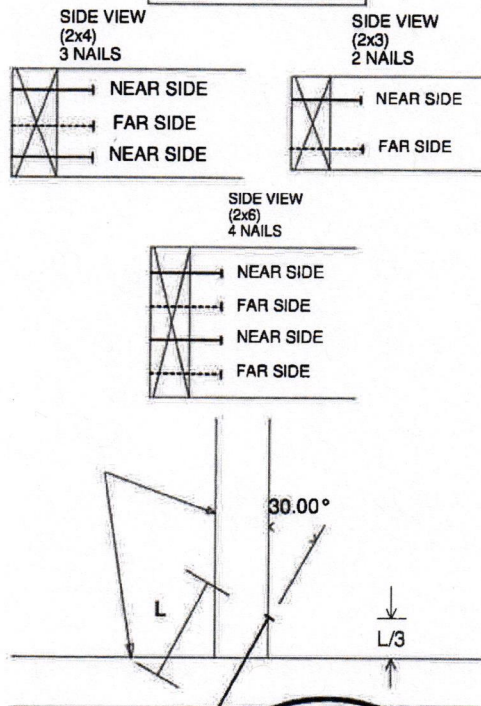
EXAMPLE:

(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

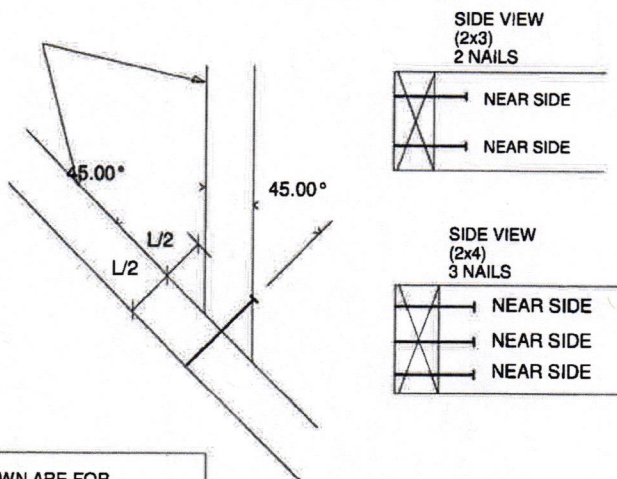
For load duration increase of 1.15:

3 (nails) X 91.9 (lb/nail) X 1.15 (DOL) = 317.0 lb Maximum Capacity

SQUARE CUT



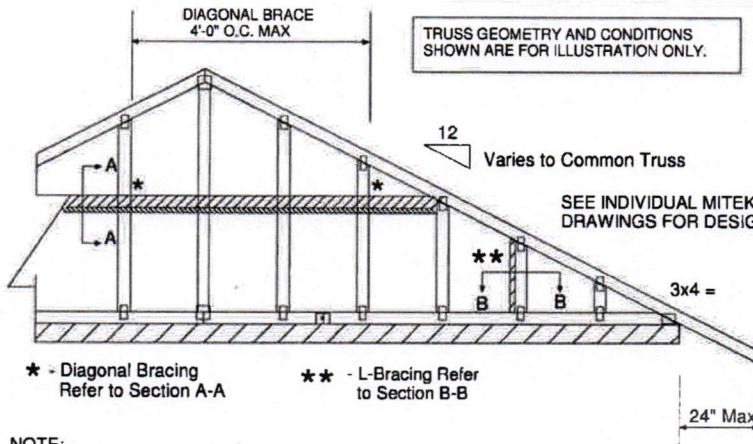
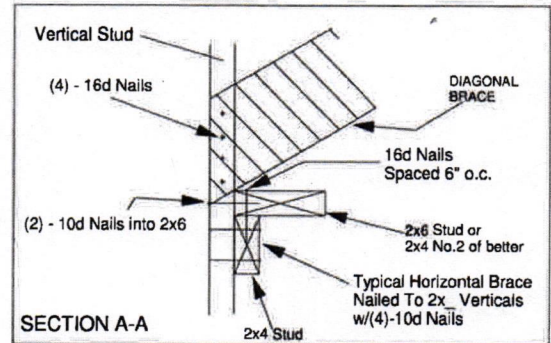
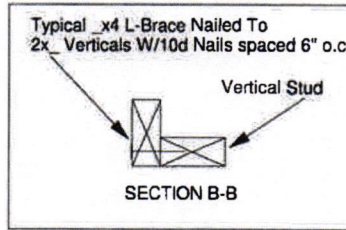
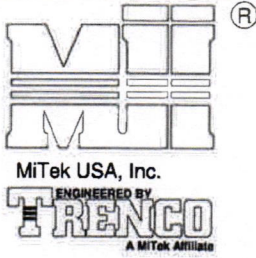
45 DEGREE ANGLE BEVEL CUT



VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

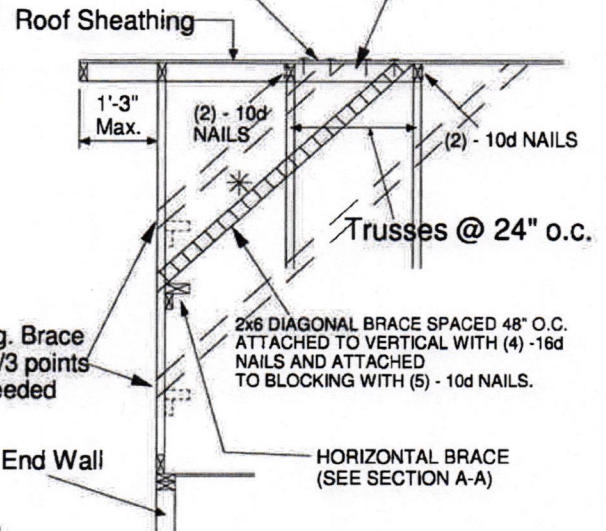


07/05/2018



PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD DF/SPF BLOCK



NOTE:

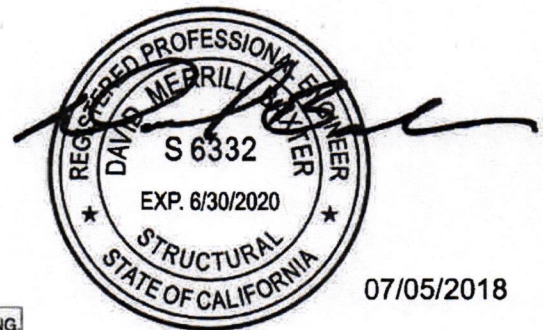
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Maximum Stud Length				
		Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
2x4 DF/SPF Std/Stud	12" O.C.	4-6-3	5-0-7	7-1-7	9-0-5	13-6-8
2x4 DF/SPF Std/Stud	16" O.C.	4-1-3	4-4-5	6-2-0	8-2-7	12-3-10
2x4 DF/SPF Std/Stud	24" O.C.	3-5-8	3-6-11	5-0-7	6-10-15	10-4-7

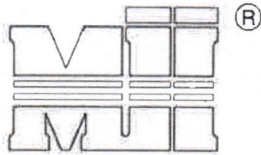
* Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 l-braces attached to both edges. Fasten T and l braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET
 CATEGORY II BUILDING
 EXPOSURE B or C
 ASCE 7-98, ASCE 7-02, ASCE 7-05 110 MPH
 ASCE 7-10 140 MPH
 DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
 CONNECTION OF BRACING IS BASED ON MWFRS.



07/05/2018



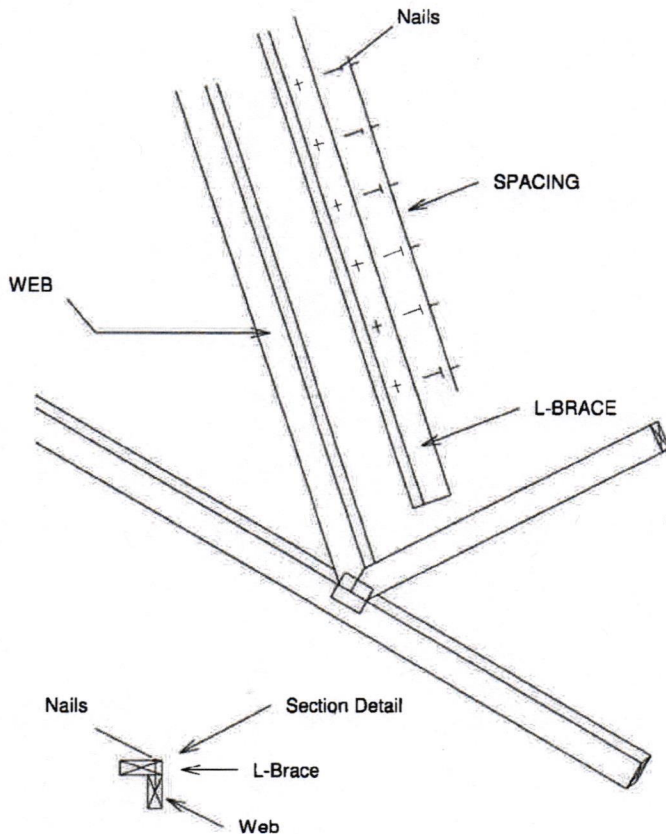
MiTek USA, Inc.



Nailing Pattern		
L-Brace size	Nail Size	Nail Spacing
1x4 or 6	10d (0.131" X 3")	8" o.c.
2x4, 6, or 8	16d (0.131" X 3.5")	8" o.c.

Note: Nail along entire length of L-Brace
(On Two-Ply's Nail to Both Plies)

Note: L-Bracing to be used when continuous lateral bracing is impractical. L-brace must cover 90% of web length.



Web Size	L-Brace Size for One-Ply Truss	
	Specified Continuous Rows of Lateral Bracing	
	1	2
2x3 or 2x4	1x4	***
2x6	1x6	***
2x8	2x8	***

*** DIRECT SUBSTITUTION NOT APPLICABLE.

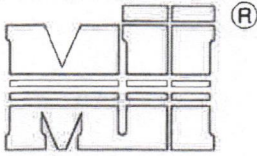
Web Size	L-Brace Size for Two-Ply Truss	
	Specified Continuous Rows of Lateral Bracing	
	1	2
2x3 or 2x4	2x4	***
2x6	2x6	***
2x8	2x8	***

*** DIRECT SUBSTITUTION NOT APPLICABLE.

L-Brace must be same species grade (or better) as web member.



07/05/2018



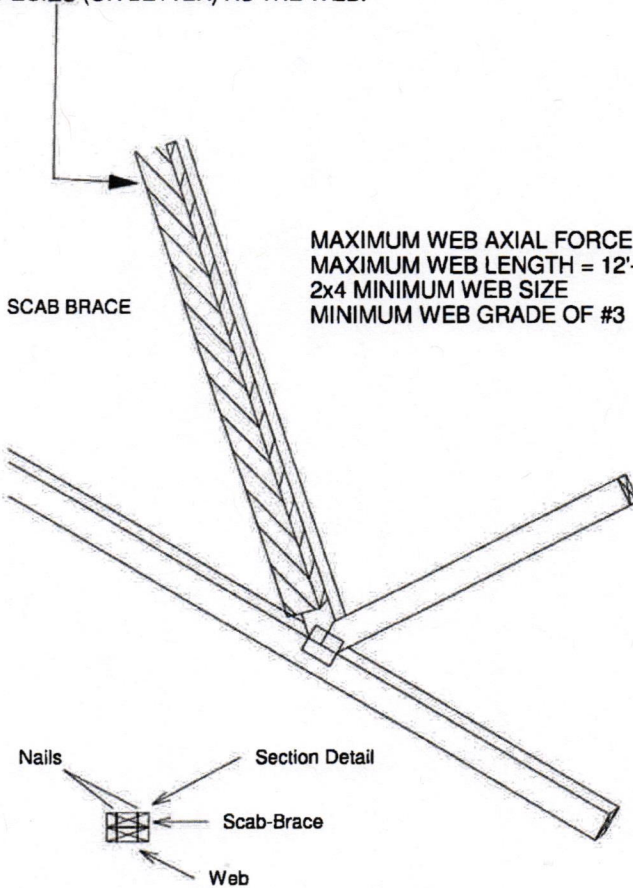
MiTek USA, Inc.



Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical. Scab must cover full length of web +/- 6".

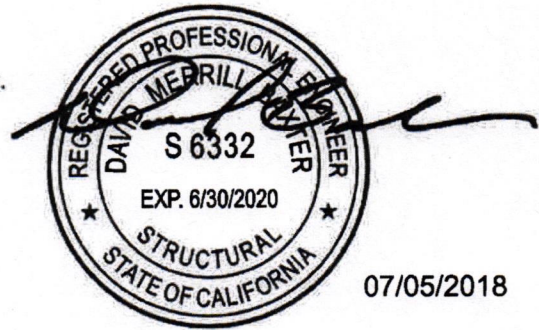
*** THIS DETAIL IS NOT APPLICABLE WHEN BRACING IS REQUIRED AT 1/3 POINTS OR I-BRACE IS SPECIFIED.

APPLY 2x SCAB TO ONE FACE OF WEB WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. SCAB MUST BE THE SAME GRADE, SIZE AND SPECIES (OR BETTER) AS THE WEB.



MAXIMUM WEB AXIAL FORCE = 2500 lbs
MAXIMUM WEB LENGTH = 12'-0"
2x4 MINIMUM WEB SIZE
MINIMUM WEB GRADE OF #3

Scab-Brace must be same species grade (or better) as web member.



07/05/2018

DETAIL FOR COMMON AND END JACKS

MII/COR - 8 -20psf

7/9/2015

PAGE 1



MAX LOADING (psf)	SPACING	2-0-0
TCLL 20.0	Plates Increase	1.25
TCOL 16.0	Lumber Increase	1.25
BCLL 0.0	Rep Stress Incr	YES
BCOL 10.0		

BRACING
 TOP CHORD Sheathed.
 BOT CHORD Rigid ceiling directly applied.

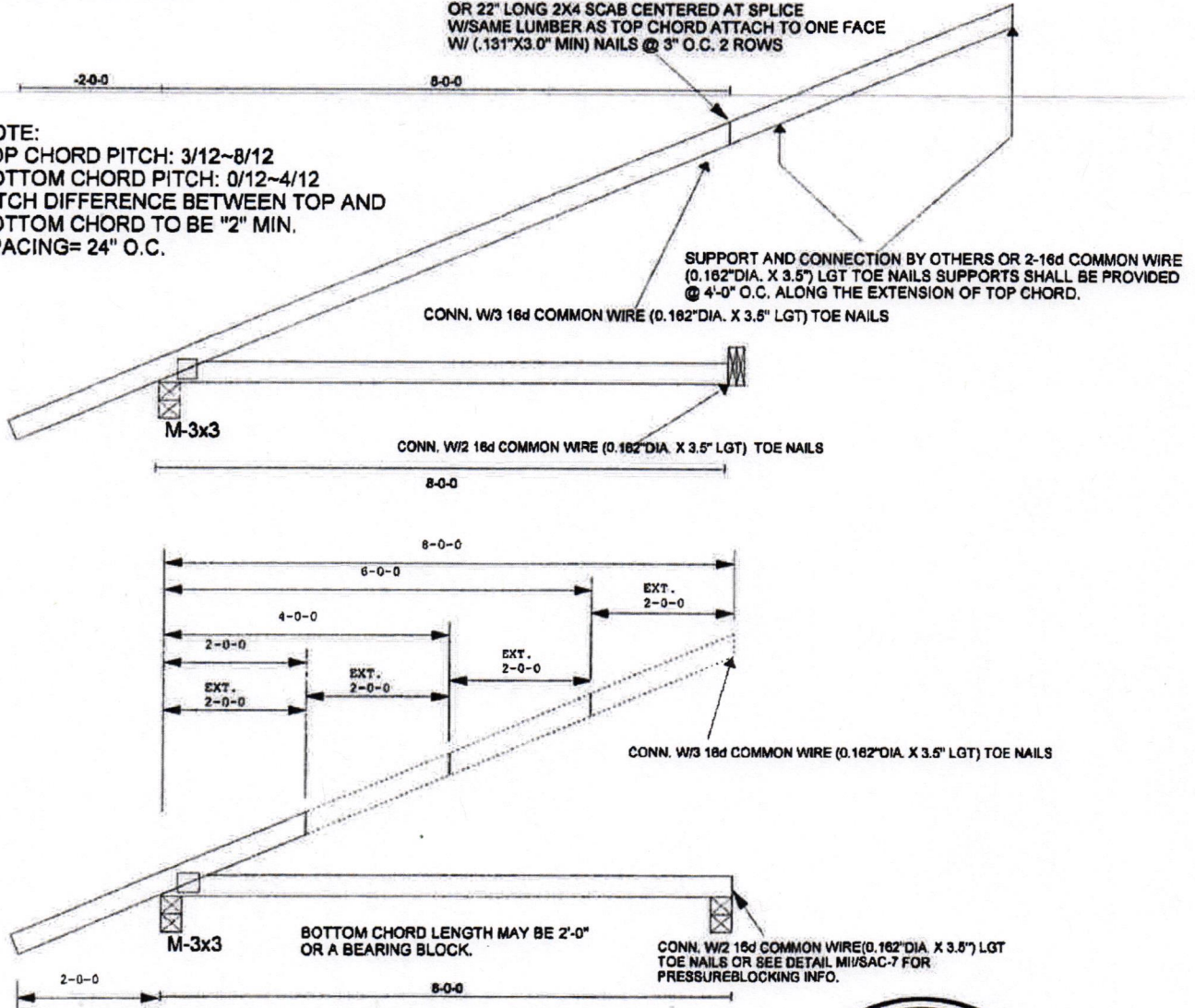
MITek Industries, Inc.
 Corona Ca.

MINIMUM LUMBER SIZE AND GRADE	
TOP CHORD	2 x 4 DF-L No.1&BTR
BOT CHORD	2 x 4 DF-L No.1&BTR

LENGTH OF EXTENSION
 AS DESIGN REQ'D 20'-0" MAX

SPLICE CAN EITHER BE 3X6 MT20 PLATES
 OR 22" LONG 2X4 SCAB CENTERED AT SPLICE
 W/SAME LUMBER AS TOP CHORD ATTACH TO ONE FACE
 W/ (.131"X3.0" MIN) NAILS @ 3" O.C. 2 ROWS

NOTE:
 TOP CHORD PITCH: 3/12~8/12
 BOTTOM CHORD PITCH: 0/12~4/12
 PITCH DIFFERENCE BETWEEN TOP AND
 BOTTOM CHORD TO BE "2" MIN.
 SPACING= 24" O.C.



NOTE: NAILING SHALL BE SUCH THAT THE LUMBER DOES NOT SPLIT.



07/05/2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIU-7473 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.
 Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown
 is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the
 erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding
 fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, D38-89 and SCS1 Building Component
 Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

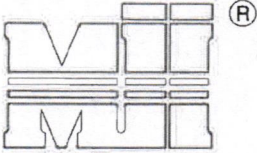
250 Jug Circle
 Corona, Ca. 92879



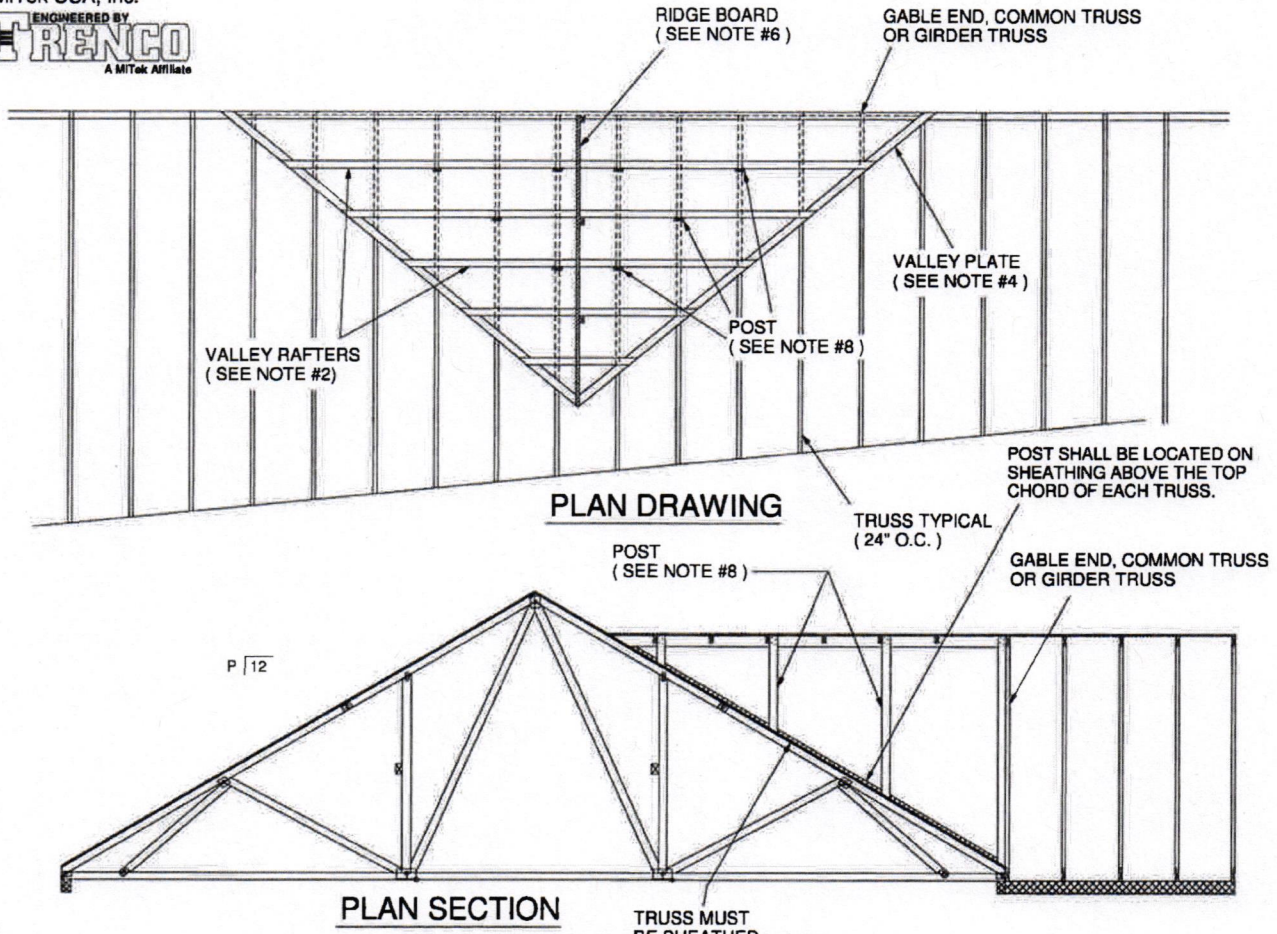
AUGUST 1, 2016

CONVENTIONAL VALLEY FRAMING DETAIL

MII-VALLEY1



MiTek USA, Inc.



GENERAL SPECIFICATIONS

1. WITH BASE TRUSSES ERECTED (INSTALLED), APPLY SHEATHING TO TOP CHORD OF SUPPORTING (BASE) TRUSSES.
2. BRACE BOTTOM CHORD AND WEB MEMBERS PER TRUSS DESIGNS.
3. DEFINE VALLEY RIDGE BY RUNNING A LEVEL STRING FROM THE INTERSECTING RIDGE OF THE (a.) GABLE END, (b.) GIRDER TRUSS OR (c.) COMMON TRUSS TO THE ROOF SHEATHING.
4. INSTALL 2 x 4 VALLEY PLATES. FASTEN TO EACH SUPPORTING TRUSS WITH (2) 16d (0.131" X 3.5") NAILS.
5. SET 2 x 6 #2 RIDGE BOARD. SUPPORT WITH 2 x 4 POSTS SPACED 48" O.C.. BEVEL BOTTOM OF POST TO SET EVENLY ON THE SHEATHING. FASTEN POST TO RIDGE WITH (4) 10d (0.131" X 3") NAILS. FASTEN POST TO ROOF SHEATHING WITH (3) 10d (0.131" X 3") TOE-NAILS.
6. FRAME VALLEY RAFTERS FROM VALLEY PLATE TO RIDGE BOARD. MAXIMUM RAFTER SPACING IS 24" O.C.. FASTEN VALLEY RAFTER TO RIDGE BEAM WITH (3) 16d (0.131" X 3.5") TOE-NAILS. FASTEN VALLEY RAFTER TO VALLEY PLATE WITH (3) 16d (0.131" X 3.5") TOE-NAILS.
7. SUPPORT THE VALLEY RAFTERS WITH 2 x 4 POSTS 48" O.C (OR LESS) ALONG EACH RAFTER. INSTALL POSTS IN A STAGGERED PATTERN AS SHOWN ON PLAN DRAWING. ALIGN POSTS WITH TRUSSES BELOW. FASTEN VALLEY RAFTER TO POST WITH (4) 10d (0.131" X 3") NAILS. FASTEN POST THROUGH SHEATHING TO SUPPORTING TRUSS WITH (2) 16d (0.131" X 3.5") NAILS.
8. POSTS SHALL BE 2 x 4 #2 OR BETTER SPRUCE PINE FIR, DOUG FIR LARCH OR SOUTHERN PINE. POSTS EXCEEDING 75' SHALL BE INCREASED TO 4 x 4 OR BE PRE-ASSEMBLED (2) PLY 2 x 4's FASTENED TOGETHER WITH 2 ROWS OF 10d (0.131" X 3") NAILS 6" O.C..

NOTE:

48" O.C. MAXIMUM POST SPACING
 LIVE LOAD = 30 PSF (MAX)
 DEAD LOAD = 15 PSF (MAX)
 D.O.L. INC = 1.15
 ASCE 7-98, ASCE 7-02, ASCE 7-05 90 MPH (MWFRS)
 ASCE7-10 115 MPH (MWFRS)

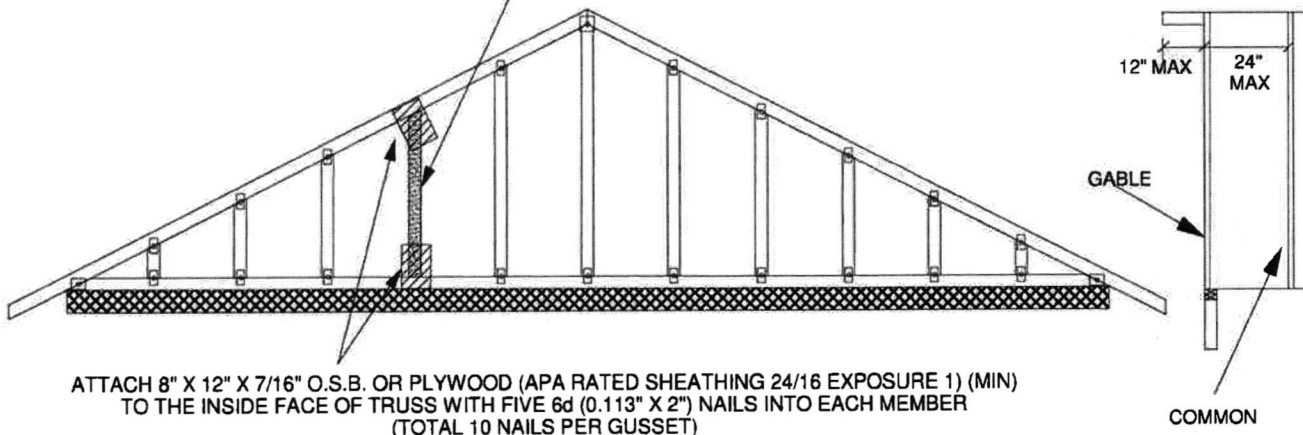


07/05/2018



1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.
4. WHEN NAILING SCABS OR GUSSETS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2X_ ORIENTATION ONLY.

REPLACE MISSING WEB WITH A NEW MEMBER OF THE SAME SIZE, GRADE, AND SPECIES AS THE ORIGINAL (CUT TO FIT TIGHT)



ATTACH 8" X 12" X 7/16" O.S.B. OR PLYWOOD (APA RATED SHEATHING 24/16 EXPOSURE 1) (MIN) TO THE INSIDE FACE OF TRUSS WITH FIVE 6d (0.113" X 2") NAILS INTO EACH MEMBER (TOTAL 10 NAILS PER GUSSET)

THE OUTSIDE FACE OF THE GABLE MUST BE SHEATHED WITH (MIN) 7/16" O.S.B OR PLYWOOD. SEE MITEK STANDARD GABLE END DETAILS FOR WIND BRACING REQUIREMENTS.

TRUSS CRITERIA

- LOADING : 40-10-0-10 (MAX)
- LOAD DURATION FACTOR : 1.15
- SPACING : 24" O.C. (MAX)
- TOP CHORD : 2X 4 OR 2X 6 (NO 2 MIN)
- PITCH : 3/12 - 12/12
- BEARING : CONTINUOUS
- STUD SPACING : 24" O.C. (MAX)

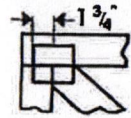
REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



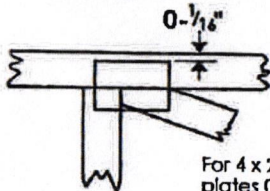
07/05/2018

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- $\frac{1}{16}$ " 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

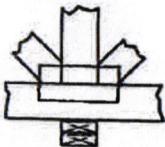
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



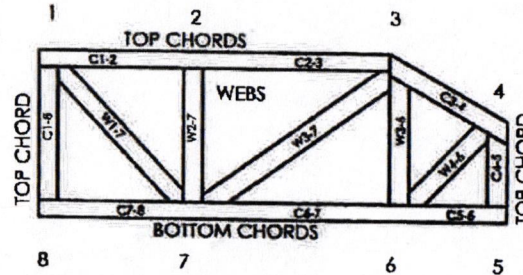
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
Design Standard for Bracing.
DSB-89: Building Component Safety Information.
BCS11: 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, ER-5243, 9604B,
9730, 95-43, 96-31, 9667A
NER-487, NER-561
95110, 84-32, 96-67, ER-3907, 9432A

© 2006 MiTek® All Rights Reserved

MiTek
POWER TO PERFORM.™

MiTek Engineering Reference Sheet: MII-7473

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 BCS11.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I or Eliminator 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 lightly 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, warts and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

RECEIVED

AUG 07 2019

RESILIENCY PERMIT CENTER