



RE: 2880703

Summit/30 Woodside

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Customer: Project Name: 2880703

Lot/Block: Model:
Address: Subdivision:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-16 Wind Speed: 115 mph Roof Load: 55.0 psf Floor Load: N/A psf

This package includes 62 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	146904242	A1	7/27/2021	21	146904262	C3	7/27/2021
2	146904243	A2	7/27/2021	22	146904263	CJ1	7/27/2021
3	146904244	A3	7/27/2021	23	146904264	CJ2	7/27/2021
4	146904245	A4	7/27/2021	24	146904265	CJ2A	7/27/2021
5	146904246	A5	7/27/2021	25	146904266	CJ3	7/27/2021
6	146904247	A6	7/27/2021	26	146904267	CJ4	7/27/2021
7	146904248	A7	7/27/2021	27	146904268	CJ5	7/27/2021
8	146904249	A8	7/27/2021	28	146904269	D1	7/27/2021
9	146904250	A9	7/27/2021	29	146904270	D1A	7/27/2021
10	146904251	B1	7/27/2021	30	146904271	D2	7/27/2021
11	146904252	B2	7/27/2021	31	146904272	D3	7/27/2021
12	146904253	B3	7/27/2021	32	146904273	E1	7/27/2021
13	146904254	B4	7/27/2021	33	146904274	E2	7/27/2021
14	146904255	B5	7/27/2021	34	146904275	J1	7/27/2021
15	146904256	B6	7/27/2021	35	146904276	J2	7/27/2021
16	146904257	B7	7/27/2021	36	146904277	J3	7/27/2021
17	146904258	B8	7/27/2021	37	146904278	J3A	7/27/2021
18	146904259	B9	7/27/2021	38	146904279	J4	7/27/2021
19	146904260	C1	7/27/2021	39	146904280	J5	7/27/2021
20	146904261	C2	7/27/2021	40	146904281	J6	7/27/2021

The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision

based on the parameters provided by Builders FirstSource (Valley Center).

Truss Design Engineer's Name: Johnson, Andrew

My license renewal date for the state of Missouri is December 31, 2021.

Missouri COA: 001193

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.





RE: 2880703 - Summit/30 Woodside

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Site Information:

Project Name: 2880703

Project Customer: Lot/Block: Address: Subdivision:

City, County: State:

No.	Seal#	Truss Name	Date
41	146904282	J7	7/27/2021
42	146904283	J9	7/27/2021
43	146904284	J10	7/27/2021
44	146904285	J13	7/27/2021
45	146904286	J14	7/27/2021
46	146904287	J16	7/27/2021
47	146904288	J17	7/27/2021
48	146904289	J18	7/27/2021
49	146904290	J19	7/27/2021
50	146904291	J20	7/27/2021
51	146904292	LG1	7/27/2021
52	146904293	LG2	7/27/2021
53	146904294	LG3	7/27/2021
54	146904295	LG4	7/27/2021
55	146904296	LG5	7/27/2021
56	146904297	LG6	7/27/2021
57	146904298	V1	7/27/2021
58	146904299	V2	7/27/2021
59	146904300	V3	7/27/2021
60	146904301	V4	7/27/2021
61	146904302	V5	7/27/2021
62	146904303	V7	7/27/2021

Job Truss Truss Type Qty Summit/30 Woodside 146904242 2880703 Α1 Roof Special Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:01 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-mCbHj6DWeQ?2BMW59XS6B4TwhgKmCqDpFG2kgKz_PdG 20-0-0 6-4-0 36-6-15 3-3-7

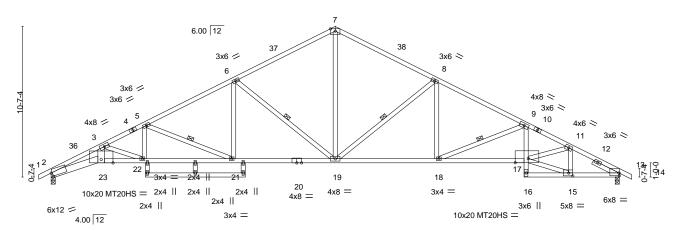
> Scale = 1:81.1 5x8 =

> > Structural wood sheathing directly applied.

6-19, 8-19, 9-18, 5-21

Rigid ceiling directly applied.

1 Row at midpt



		3-3-8 6-7-8 6-8-8	3 10-1-12 1	12-10-4 13-8-0	20-0-0	23-5-12	27-1-12	33-3-8	₁ 36-6-15	40-0-0	1
		<u>' 3-3-8 </u>	3-5-4	2-8-8 0-9-12	6-4-0	3-5-12	3-8-0	6-1-12	3-3-7	3-5-1	1
Plate Off	sets (X,Y)	[2:0-1-0,0-3-0], [13:Edge	,0-2-4], [15:0	-3-8,0-2-8], [1	7:0-11-0,0-3-8	3]					
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl L/d	PL	ATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.32 19-21	>999 240	M	20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.73 19-21	>659 180	M	20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.39 13	n/a n/a			
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-AS	, ,			We	eight: 199 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

1-4,10-14: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2 *Except*

2-23: 2x6 SPF 2100F 1.8E, 20-23,13-16: 2x4 SP 2400F 2.0E

17-20: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2 *Except*

3-23: 2x6 SPF No.2

SLIDER Right 2x4 SPF No.2 2-0-0

(size) 2=0-3-8, 13=0-3-8 REACTIONS. Max Horz 2=184(LC 12)

Max Uplift 2=-316(LC 12), 13=-318(LC 13)

Max Grav 2=2270(LC 1), 13=2284(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-6884/1048, 3-5=-5309/762, 5-6=-3920/540, 6-7=-2816/474, 7-8=-2816/473,

8-9=-3901/532, 9-11=-5192/665, 11-13=-3618/490

BOT CHORD 2-23=-1075/6150, 22-23=-1046/6027, 21-22=-755/4751, 19-21=-445/3403,

18-19=-291/3388, 17-18=-494/4715, 9-17=-48/685, 15-16=-50/292, 13-15=-364/3112 3-23=-197/1154, 7-19=-223/1767, 6-19=-1305/352, 6-21=-67/681, 8-19=-1285/333,

8-18=-48/658, 9-18=-1433/290, 11-15=-1133/157, 15-17=-331/2974, 11-17=-140/1590,

5-22=-80/689, 5-21=-1456/334, 3-22=-1350/309

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph, TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 20-0-0, Exterior(2R) 20-0-0 to 24-0-0, Interior(1) 24-0-0 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 2 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=316, 13=318
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



July 8,2021





Job Truss Truss Type Qty Summit/30 Woodside 146904243 2880703 A2 Roof Special 3 Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:04 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-BnGPL8GPxLNd2pFgqf?ppi5P?uNoPBnFxEGOHez_PdD 40-0-0 40-10₁8 3-3-8 0-10-8 31-1-11 36-8-8 20-0-0 27-1-12 3-4-0 5-1-12 6-4-0 7-1-12 3-11-15 4-5-0

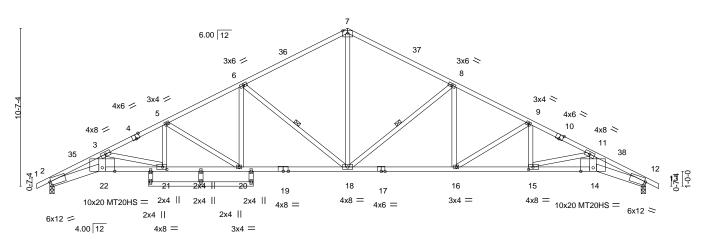
> Scale = 1:77.4 5x8 =

> > Structural wood sheathing directly applied.

8-18, 6-18

Rigid ceiling directly applied.

1 Row at midpt



		0-4 13-6-0 20-0-0	27-1-12 29-0-3	32-3-0	30-0-0 40-0-0	
	3-3-8 3-4-0 1-1-0 2-5-4 2-8	-8 0 ' 9-1'2 6-4-0	7-1-12 1-10-9	3-3-3	4-5-0 3-3-8	1
Plate Offsets (X,Y)	[2:0-1-0,0-3-0], [4:0-3-0,Edge], [10:0-3	-0,Edge], [12:0-1-0,0-3-0], [15	:0-3-8,0-2-0], [21:0-3-8,0-2-0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.92	Vert(LL) -0.35 18-20 >999	240	MT20	197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.88	Vert(CT) -0.82 18-20 >587	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr YES	WB 0.74	Horz(CT) 0.46 12 n/a	ı n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 198 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

1-4,10-13: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2 *Except*

2-22,12-14: 2x6 SPF 2100F 1.8E, 19-22,14-17: 2x4 SP 2400F 2.0E 2x4 SPF No.2 *Except*

WEBS 3-22,11-14: 2x6 SPF No.2

REACTIONS. (size) 2=0-3-8, 12=0-3-8

Max Horz 2=184(LC 16)

Max Uplift 2=-317(LC 12), 12=-317(LC 13) Max Grav 2=2279(LC 1), 12=2279(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-7024/1070, 3-5=-4969/700, 5-6=-3902/546, 6-7=-2835/475, 7-8=-2835/475,

8-9=-3901/541, 9-11=-4969/634, 11-12=-7024/899

BOT CHORD 2-22=-1098/6290, 21-22=-1070/6164, 20-21=-676/4417, 18-20=-442/3408,

16-18=-293/3407, 15-16=-433/4417, 14-15=-734/6163, 12-14=-752/6290 3-22=-190/1246, 7-18=-219/1765, 11-14=-112/1245, 8-16=-69/722, 8-18=-1282/331,

WEBS 6-18=-1283/346, 6-20=-85/723, 5-20=-1183/274, 5-21=-82/646, 3-21=-1802/407,

9-16=-1184/241, 9-15=-53/647, 11-15=-1801/312

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 20-0-0, Exterior(2R) 20-0-0 to 24-0-0, Interior(1) 24-0-0 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 2, 12 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=317. 12=317.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



July 8,2021





Job Truss Truss Type Qty Summit/30 Woodside 146904244 2880703 **A3** Hip Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

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Structural wood sheathing directly applied, except

3-22, 6-16, 10-14, 5-17, 8-16

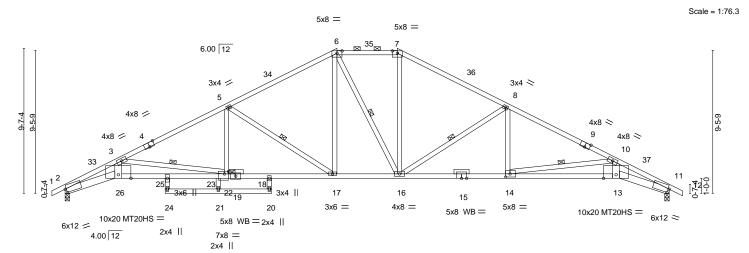
2-0-0 oc purlins (3-3-8 max.): 6-7.

Rigid ceiling directly applied.

1 Row at midpt

1 Brace at Jt(s): 22

ID:clow4Ylgf7iox0?ly?5BCcz33zm-f_qnZUG1ieVUgzqsONW2Mweclljw8fOOAu0xp5z_PdC 13-8-0 14-3-4 2-11-12 0-7-4 29₁4-4 0-2-4 22-0-0 29-2-0 36-8-8 40-0-0 40-10_F8 3-4-0 4-0-12 3-8-12 4-0-0 7-2-0 7-4-4 3-3-8 0-10-8



	⊢		10-1-12 10-8-4			22-0-0		-2-0	29-4-4	36-8-8	40-0	
		3-3-8 3-4-0	3-6-4 0-6-8 2	2-11-12 0-7-4	3-8-12	4-0-0	7-	-2-0	0-2-4	7-4-4	1 3-3-	8 '
Plate Offsets	s (X,Y)	[2:0-1-0,0-3-0], [4:0-4-0,E	Edge], [6:0-4-0,	0-1-15], [7:0	-4-0,0-1-15]	[9:0-4-0,Edge], [1	1:0-1-0,0-	3-0], [1	4:0-3-8,0-2-8],	[22:0-3-4,0-2-0]		
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in ((loc)	I/defl L/d	PLA	ATES	GRIP
(1	25.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.37	/	>999 240	MT2		197/144
TCDL 2	20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.84	25	>568 180	MT2	20HS	148/108
	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.53	11	n/a n/a			
BCDL 1	0.0	Code IRC2018/Ti	PI2014	Matrix	k-AS					Wei	ght: 198 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-

2x4 SPF 1650F 1.5E *Except* TOP CHORD

6-7: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except*

2-26,11-13: 2x6 SPF 2100F 1.8E, 19-26,13-15: 2x4 SP 2400F 2.0E

15-19: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2 *Except*

3-26,10-13: 2x6 SPF No.2 2x4 SPF No.2

OTHERS

REACTIONS. (size) 2=0-3-8, 11=0-3-8

Max Horz 2=165(LC 12)

Max Uplift 2=-321(LC 12), 11=-321(LC 13) Max Grav 2=2279(LC 1), 11=2279(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-7190/1103, 3-5=-4370/596, 5-6=-3157/486, 6-7=-2669/477, 7-8=-3156/484,

8-10=-4392/565, 10-11=-7227/953

2-26=-1114/6463, 25-26=-1091/6336, 23-25=-1053/6220, 22-23=-1053/6220, **BOT CHORD**

18-22=-491/3722, 17-18=-529/3837, 16-17=-234/2669, 14-16=-369/3857,

13-14=-794/6368, 11-13=-809/6499

3-26=-178/1353, 3-22=-2526/568, 6-17=-150/860, 6-16=-252/251, 7-16=-121/855, **WEBS**

 $10 - 14 = -2538/463, \ 10 - 13 = -104/1365, \ 5 - 17 = -1373/349, \ 5 - 22 = -17/630, \ 8 - 14 = -11/630,$

8-16=-1397/341

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-0-0, Exterior(2E) 18-0-0 to 22-0-0, Exterior(2R) 22-0-0 to 26-2-15, Interior(1) 26-2-15 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 2, 11 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=321, 11=321.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum Construction begap plied directly to the bottom chord



July 8,2021

👠 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE



Job	Truss	Truss Type	Qty	Ply	Summit/30 Woodside
					146904244
2880703	A3	Hip	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:05 2021 Page 2 ID:clow4Ylgf7iox0?ly?5BCcz33zm-f_qnZUG1ieVUgzqsONW2Mweclljw8fOOAu0xp5z_PdC

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job Truss Truss Type Qty Summit/30 Woodside 146904245 2880703 A4 Hip Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:07 2021 Page 1

Structural wood sheathing directly applied, except

6-16, 9-16, 10-14, 4-17, 3-23

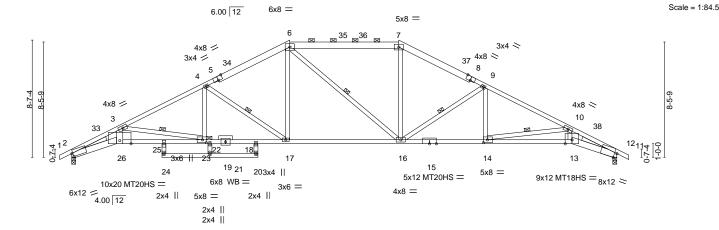
2-0-0 oc purlins (3-3-3 max.): 6-7.

Rigid ceiling directly applied.

1 Row at midpt

1 Brace at Jt(s): 23

ID:clow4Ylgf7iox0?ly?5BCcz33zm-bMyYzAlHEGlBvH_FVoZWRLjxH5Mucc6hdCV2uzz_PdA



	3-3-8 6-7-8 9-8-1210 ₇ 1 ₇ 1 3-3-8 3-4-0 3-1-4 0-5-0		24-0-0 8-0-0	30-4-4 6-4-4	36-8-8 6-4-4	40-0-0 3-3-8	
Plate Offsets (X,Y)	[2:0-1-0,0-3-0], [5:0-4-0,Edge], [8:0-4-0				0-4-4	3-3-0	
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.86 BC 0.99 WB 0.51 Matrix-AS	Vert(CT) -	in (loc) I/defl 0.36 16-17 >999 0.88 16-17 >546 0.52 11 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS MT18HS Weight: 209 lb	GRIP 197/144 148/108 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-

2x6 SPF No.2 *Except* TOP CHORD

1-5,8-12: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2 *Except*

2-26,11-13: 2x6 SPF 2100F 1.8E, 19-26,13-15: 2x4 SP 2400F 2.0E

2x4 SPF No.2 *Except* WEBS 3-26: 2x6 SPF No.2

OTHERS 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 11=0-3-8

Max Horz 2=146(LC 12)

Max Uplift 2=-319(LC 12), 11=-319(LC 13) Max Grav 2=2279(LC 1), 11=2279(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-7167/1067, 3-4=-4501/616, 4-6=-3474/506, 6-7=-3011/498, 7-9=-3478/506,

9-10=-4555/582, 10-11=-7499/969 2-26=-1060/6439, 25-26=-1038/6311, 23-25=-1024/6185, 22-23=-523/3835,

18-22=-523/3835, 17-18=-537/3961, 16-17=-284/3008, 14-16=-392/4011,

13-14=-790/6392. 11-13=-824/6753

WEBS 3-26=-166/1347, 6-17=-107/795, 6-16=-249/254, 7-16=-73/790, 9-16=-1180/291,

9-14=-30/590, 10-14=-2413/433, 10-13=-121/1494, 4-17=-1131/303, 4-23=-45/557,

3-23=-2384/508

NOTES-

BOT CHORD

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 16-0-0, Exterior(2R) 16-0-0 to 20-2-15, Interior(1) 20-2-15 to 24-0-0, Exterior(2R) 24-0-0 to 28-2-15, Interior(1) 28-2-15 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI =1 60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 2, 11 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)
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Conferenced codostguedard ANSI/TPI 1.



July 8,2021





Job	Truss	Truss Type	Qty	Ply	Summit/30 Woodside	
					14690	04245
2880703	A4	Hip	1	1		
					Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:07 2021 Page 2 ID:clow4Ylgf7iox0?ly?5BCcz33zm-bMyYzAlHEGlBvH_FVoZWRLjxH5Mucc6hdCV2uzz_PdA

NOTES-

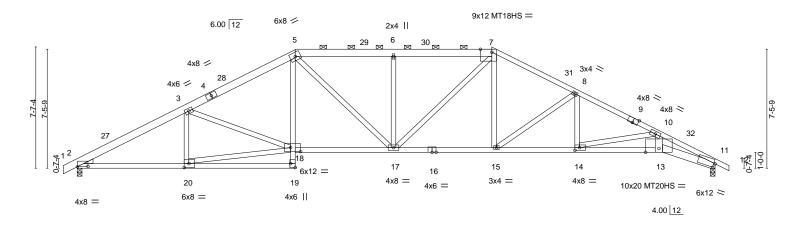
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job Truss Truss Type Qty Summit/30 Woodside 146904246 2880703 A5 Hip Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:08 2021 Page 1

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:clow4Ylgf7iox0?ly?5BCcz33zm-3ZWwBWJv?Zt2XQYR3V4lzYG5TVk2LyYrssEbQQz_Pd9 40-0-0 40-10₁8 14-0-0 0-4-0 19-10-0 26-0-0 31-4-4 36-8-8 -0-10-8 0-10-8 6-10-3 6-9-13 5-10-0 6-0-0 5-4-4 5-4-4 3-3-8 0-10-8

Scale = 1:72.3



		6-10-3	13-8-0	1	19-10-0	20 ₁ φ-0 26	i-0-0	31-4-4	1	36-8-8	40-0-0
	ı	6-10-3	6-9-13		6-2-0	0-2-0 6	-0-0	5-4-4	ı	5-4-4	3-3-8
Plate Offsets	s (X,Y)	[2:0-8-0,0-0-3], [7:0	0-8-10,Edge], [9:0-4-0	,Edge], [11:	0-1-0,0-3-0]	, [14:0-3-8,0-2-0],	[18:0-7-8,0-3-6)], [19:Edge,0-	3-8], [20	:0-3-8,0-3-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip D	OL 1.15	TC	0.96	Vert(LL)	-0.28 15	>999 2	40	MT20	197/144
TCDL 2	20.0	Lumber DO	L 1.15	BC	0.86	Vert(CT)	-0.64 15-17	>752 1	80	MT20HS	148/108
BCLL	0.0	Rep Stress	Incr YES	WB	0.95	Horz(CT)	0.33 11	n/a	n/a	MT18HS	197/144
BCDL 1	10.0	Code IRC2	018/TPI2014	Matri	x-AS					Weight: 206	lb FT = 20%
		1									

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (3-6-13 max.): 5-7.

Rigid ceiling directly applied.

LUMBER-

2x6 SPF No.2 *Except* TOP CHORD

7-9: 2x4 SPF No.2, 9-12: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2 *Except*

2-19,13-16: 2x4 SP 2400F 2.0E, 11-13: 2x6 SPF 2100F 1.8E

WEBS 2x4 SPF No.2 *Except*

10-13: 2x6 SPF No.2

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 11=0-3-8

Max Horz 2=131(LC 12)

Max Uplift 2=-265(LC 12), 11=-268(LC 13) Max Grav 2=2279(LC 1), 11=2279(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-4051/510, 3-5=-3836/526, 5-6=-3667/548, 6-7=-3673/551, 7-8=-3737/526, TOP CHORD

8-10=-4760/603, 10-11=-7089/830

BOT CHORD 2-20=-412/3494, 5-18=-85/709, 17-18=-273/3306, 15-17=-259/3238, 14-15=-424/4216,

13-14=-687/6228, 11-13=-702/6356

WEBS 3-20=-406/120, 18-20=-400/3287, 3-18=-257/204, 7-15=-98/758, 8-15=-1170/260,

8-14=-31/615, 10-14=-2054/321, 10-13=-98/1293, 6-17=-650/207, 7-17=-173/782,

5-17=-154/689

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-8-0, Exterior(2R) 13-8-0 to 17-10-15, Interior(1) 17-10-15 to 26-0-0, Exterior(2R) 26-0-0 to 30-2-15, Interior(1) 30-2-15 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 11 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=265, 11=268.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum Construction begap plied directly to the bottom chord



July 8,2021

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE



-	Job	Truss	Truss Type	Qty	Ply	Summit/30 Woodside
						146904246
2	2880703	A5	Hip	1	1	
						Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:08 2021 Page 2 ID:clow4Ylgf7iox0?ly?5BCcz33zm-3ZWwBWJv?Zt2XQYR3V4lzYG5TVk2LyYrssEbQQz_Pd9

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job Truss Truss Type Qty Summit/30 Woodside 146904247 2880703 A6 Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:09 2021 Page 1

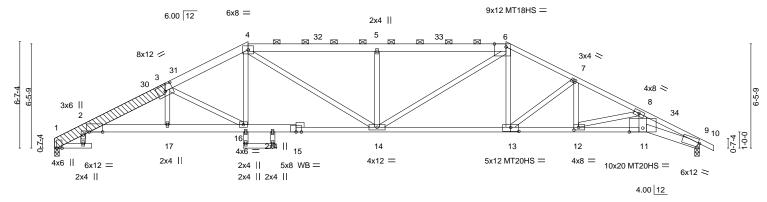
ID:clow4Ylgf7iox0?ly?5BCcz33zm-Yl3IOrKYmt?v9a7ddDb_WmoJOv314SZ_4W_9ysz_Pd8

Structural wood sheathing directly applied, except

2-0-0 oc purlins (2-10-3 max.): 4-6.

Rigid ceiling directly applied.

Scale = 1:71.5



			13-8-0						
1-7-8 2-3-8	7-1-12	11-8-8	12 _F Q-0	20-0-0	28-0-0	32-4-4	36-8-8	40-0-0	
1-7-8 0-8-0	4-10-4	4-6-12	0-1318	6-4-0	8-0-0	4-4-4	4-4-4	3-3-8	
			1-8-0						
cate (Y V)	[2.0-10-0 0-0-0]	13.0-6-0 0-4-81	[6:0-8-10 Edge]	[0.0-1-0.0-3-0]	2.0-3-8 0-3-01 [13.0-6-0 0-3-0]				

Plate Off	sets (X,Y)	[2:0-10-0,0-0-0], [3:0-6-0,0-2	4-8], [6:0-8-1	10,Eagej, [9:	0-1-0,0-3-0],	[12:0-3-8,0-2-0], [13:0-6-0,0-3-0				
LOADIN	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.34 13-14	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.83 13-14	>579	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.41 9	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code IRC2018/TPI2	014	Matri	x-AS					Weight: 230 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SPF No.2 *Except* TOP CHORD

6-10: 2x4 SPF 1650F 1.5E, 1-3: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

-0-10-8 1-7-8 2-3-8 0-10-8 1-7-8 0-8-0

2-15,9-11: 2x6 SPF 2100F 1.8E, 11-13: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2 *Except* 8-11: 2x6 SPF No.2 **OTHERS** 2x4 SPF No.2

LBR SCAB 1-3 2x8 SP 2400F 2.0E one side

REACTIONS.

(size) 1=0-3-8, 9=0-3-8

Max Horz 1=-119(LC 17)

Max Uplift 1=-215(LC 12), 9=-247(LC 13)

Max Grav 1=2215(LC 1), 9=2273(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-981/162, 2-3=-5273/647, 3-4=-4187/548, 4-5=-4417/617, 5-6=-4422/619,

6-7=-4089/549, 7-8=-4963/629, 8-9=-7003/820

2-17=-504/4901, 16-17=-503/4918, 14-16=-372/3661, 13-14=-307/3562, 12-13=-457/4413, **BOT CHORD** 11-12=-677/6144, 9-11=-693/6271

4-16=-68/756, 4-14=-236/1069, 5-14=-900/276, 6-14=-247/1182, 6-13=-77/754,

8-11=-98/1246, 3-17=0/290, 3-16=-1387/299, 7-12=-49/619, 7-13=-1021/226,

8-12=-1787/256

NOTES-

WEBS

- 1) Attached 7-11-3 scab 1 to 3, front face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 3-2-15 from end at joint 3, nail 2 row(s) at 2" o.c. for 3-0-5; starting at 0-0-7 from end at joint 3, nail 2 row(s) at 7" o.c. for 2-0-0.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-0-11, Interior(1) 3-0-11 to 12-0-0, Exterior(2R) 12-0-0 to 16-2-15, Interior(1) 16-2-15 to 28-0-0, Exterior(2R) 28-0-0 to 32-4-4, Interior(1) 32-4-4 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=215. 9=247.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Connected codesigned and ANSI/TPI 1.



July 8,2021



🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE



Job	Truss	Truss Type	Qty	Ply	Summit/30 Woodside	
						46904247
2880703	A6	Hip	1	1		
					Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:09 2021 Page 2 ID:clow4Ylgf7iox0?ly?5BCcz33zm-Yl3IOrKYmt?v9a7ddDb_WmoJOv314SZ_4W_9ysz_Pd8

NOTES-

- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job Truss Truss Type Qty Summit/30 Woodside 146904248 HIP 2880703 Α7 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:10 2021 Page 1

6-1-5

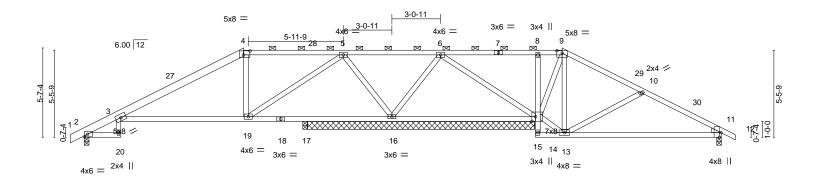
ID:clow4Ylgf7iox0?ly?5BCcz33zm-0xdgcBKAXB7mnkiqAw6D3zLT3JUwptx7JAjiVlz_Pd7 40-10-8 0-10-8 30-0-0 34-11-13 40-0-0 5-11-9 1-8-0 4-11-13 5-0-3

Structural wood sheathing directly applied, except

2-0-0 oc purlins (6-0-0 max.): 4-9.

Rigid ceiling directly applied.

Scale = 1:72.3



	2-3-8	, 5-10-5 ₁ 10-0)-0 ₁ 13	·8-10	19-3-12	₁ 21-1-12 ₁	28-4-0	₁ 30-0-0 ₁	40-0-0	1
	2-3-8	3-6-13 4-1-	11 ' 3-	3-10	5-7-2	1-10-0	7-2-4	1-8-0	10-0-0	l
Plate Off	sets (X,Y)	[4:0-4-12,0-3-0], [9:0-4-	0,0-1-15], [11:	0-3-8,Edge],	[15:0-2-12,Ed	ge]				
LOADING	G (psf)	SPACING-	2-0-0	CSI		DEFL.	in (loc)	l/defl L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.25 3-19	>654 240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.60 3-19	>275 180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.22 17	n/a n/a		
BCDL	10.0	Code IRC2018/	ΓPI2014	Mat	rix-AS				Weight: 162 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

1-4: 2x6 SPF No.2, 4-7: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2

-0-10₇8 2-3-8 0-10-8 2-3-8

3-6-13

4-1-11

6-3-1

WEBS 2x4 SPF No.2

WEDGE

Right: 2x4 SPF No.2

REACTIONS. All bearings 0-3-8 except (jt=length) 16=14-3-0, 15=14-3-0.

Max Horz 2=97(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2 except 11=-123(LC 13), 16=-416(LC

9), 15=-208(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 17 except 2=584(LC 25),

11=590(LC 26), 16=3002(LC 25), 15=675(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 3-22=-268/122, 3-4=-155/298, 5-6=-437/2495, 6-8=-50/381, 8-9=-48/399,

10-11=-570/171

BOT CHORD 17-19=-1412/389, 16-17=-1412/389, 15-16=-1511/392, 8-15=-407/140, 13-14=-258/0, 11-13=-74/476

> 4-19=-775/212, 5-19=-304/1661, 5-16=-1833/333, 6-16=-1704/280, 6-15=-268/1426, 13-15=-9/345, 9-15=-829/193, 9-13=-107/499, 10-13=-578/209

NOTES-

WEBS

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) -0-10-8 to 2-1-12, Interior(1) 2-1-12 to 10-0-0, Exterior(2R) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 30-0-0, Exterior(2R) 30-0-0 to 34-2-15, Interior(1) 34-2-15 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 11=123, 16=416, 15=208.
- 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/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 8,2021





Job Truss Truss Type Qty Summit/30 Woodside 146904249 2880703 **A8** Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:11 2021 Page 1 ID:clow4Ylgf7iox0?ly?5BCcz33zm-U8B2pXLoIUGdOuH0kddSbBtdBiuWYO2HYqTG1kz_Pd6

7-1-12

28-1-12

7-1-12

32-0-0

3-10-4

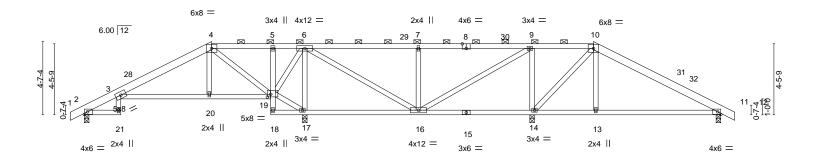
40-0-0

8-0-0

Scale = 1:72.4

40-10₁8

0-10-8



	2-3-8	8-0-0	11-8-8	13-10-4	21-0-0	ı	28-1-12	1	32-0-0	40-0-0	i
	2-3-8	5-8-8	3-8-8	2-1-12	7-1-12	l	7-1-12		3-10-4	8-0-0	1
Plate Offse	ets (X,Y)	[8:0-3-0,Edge], [19:0-2-	8,0-2-0]								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.09 3-20	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.20 3-20	>834	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.09 17	n/a	n/a		
BCDL	10.0	Code IRC2018/7	ΓPI2014	Matr	x-AS					Weight: 175 lb	FT = 20%

LUMBER-BRACING-

2x6 SPF No.2 *Except* Structural wood sheathing directly applied, except TOP CHORD TOP CHORD

4-8,8-10: 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 4-10.

BOT CHORD 2x4 SPF No.2 *Except* **BOT CHORD** Rigid ceiling directly applied. 15-18: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

-0-10₇8 2-3-8 0-10-8 2-3-8

5-8-8

3-8-8

2-1-12

REACTIONS. All bearings 0-3-8. Max Horz 2=78(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2 except 17=-436(LC 12), 14=-253(LC 8), 11=-150(LC 13)

Max Grav All reactions 250 lb or less at joint(s) except 2=390(LC 1), 17=2352(LC 1), 14=1306(LC 26),

11=645(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 3-4=-105/427, 4-5=-236/1265, 5-6=-242/1287, 9-10=-15/269, 10-11=-453/145

BOT CHORD 3-20=-252/141, 19-20=-254/138, 16-17=-1407/343, 14-16=-269/80, 13-14=-13/302,

11-13=-12/307

WEBS 4-19=-1309/282, 17-19=-1517/387, 6-17=-1503/306, 6-16=-222/1505, 7-16=-682/218,

9-16=-197/397, 9-14=-696/265, 10-14=-726/95, 10-13=0/251

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 8-0-0, Exterior(2R) 8-0-0 to 13-10-4, Interior(1) 13-10-4 to 32-0-0, Exterior(2R) 32-0-0 to 37-7-14, Interior(1) 37-7-14 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 17=436, 14=253, 11=150.
- 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/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 8,2021





Job Truss Truss Type Qty Ply Summit/30 Woodside 146904250 2880703 A9 Hip Girder Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

10-0-0 11-8-8 | 13-10-4 1-1-12 1-8-8 | 2-1-12

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:14 2021 Page 1

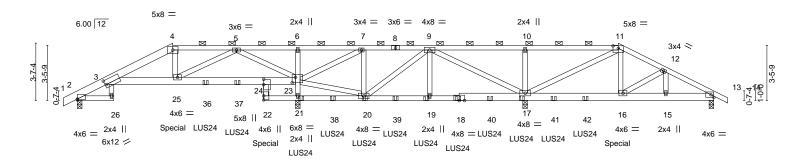
Structural wood sheathing directly applied or 6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 4-11.

Rigid ceiling directly applied or 6-0-0 oc bracing.

ID:clow4Ylgf7iox0?ly?5BCcz33zm-ujtBRZNgaPeCFM0bPmB9DpV9WwrllpAjEohwe3z_Pd3 36-11-13 2-11-13 40-0-0 40-10-8 3-0-3 0-10-8

Scale = 1:72.4



2-3-6			21-0-0 22-3-8	28-1-12	31-0-14	34-0-0 36-11-13	40-0-0
2-3-	3-8-8 2-10-4 2-10-	2-1-12 4-1-12	3-0-0 '1-3-8'	5-10-4	2-11-2	2-11-2 2-11-13	3-0-3
Plate Offsets (X,Y)	[2:0-0-0,0-0-9], [3:0-0-14,0-3-7], [1	<u>1:0-4-0,0-1-15], [23:0-2-8,0-4</u>	-0], [24:0-4-0,0-0-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.73	Vert(LL)	-0.08 26 :	>999 240	MT20	197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.59	Vert(CT)	-0.19 26 :	>888 180		
BCLL 0.0	Rep Stress Incr NO	WB 0.36	Horz(CT)	0.09 13	n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS				Weight: 378	lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD 1-4: 2x6 SPF No.2

2x4 SPF No.2 *Except*

BOT CHORD 3-23,13-18: 2x6 SPF No.2, 18-22: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

REACTIONS. All bearings 0-3-8.

Max Horz 2=62(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 2=-222(LC 8), 21=-1106(LC 5), 17=-895(LC 4), 13=-233(LC

Max Grav All reactions 250 lb or less at joint(s) except 2=1054(LC 21), 21=4584(LC 21), 17=3547(LC 22),

13=1026(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

3-28=-394/148, 3-4=-2324/564, 4-5=-2126/540, 5-6=-549/2582, 6-7=-538/2542, TOP CHORD

9-10=-126/651, 10-11=-125/653, 11-12=-1443/382, 12-13=-1492/356

BOT CHORD 3-25=-485/2087, 23-24=-210/791, 22-24=-364/91, 21-22=-683/153, 20-21=-1189/277,

19-20=-203/792, 17-19=-205/801, 16-17=-235/1203, 15-16=-262/1279, 13-15=-262/1279

WEBS 4-25=-237/613, 11-16=-325/1214, 12-16=-267/231, 21-23=-3633/905, 6-23=-412/127, 10-17=-601/192, 11-17=-2101/495, 5-25=-579/2384, 5-23=-2997/728, 9-19=-178/823,

9-17=-1618/454, 7-20=-205/891, 9-20=-943/215, 20-23=-326/1271, 7-23=-2776/663

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Unbalanced roof live loads have been considered for this design.

4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

5) Provide adequate drainage to prevent water ponding.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 222 lb uplift at joint 2, 1106 lb uplift at joint 21, 895 lb uplift at joint 17 and 233 lb uplift at joint 13.

8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2



ROLPL SIONAL

OF MISSO

ANDREW

THOMAS

NUMBER

PE-2017018993

July 8,2021

JOHM301

Job	Truss	Truss Type	Qty	Ply	Summit/30 Woodside	
2880703	40	Hip Girder	_	_		146904250
2000703	A9	nip Girder	'	2	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:14 2021 Page 2 ID:clow4Ylgf7iox0?ly?5BCcz33zm-ujtBRZNgaPeCFM0bPmB9DpV9WwrllpAjEohwe3z_Pd3

10) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 4-0-0 oc max. starting at 8-0-12 from the left end to 31-11-4 to connect truss(es) to front face of bottom chord.

- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 816 lb down and 282 lb up at 6-0-0, and 306 lb down and 102 lb up at 11-10-4, and 800 lb down and 281 lb up at 33-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-90, 3-4=-90, 4-11=-90, 11-14=-90, 26-27=-20, 24-30=-20, 22-33=-20

Concentrated Loads (lb)

Vert: 24=-306(F) 18=-306(F) 25=-816(F) 16=-800(F) 21=-306(F) 17=-306(F) 19=-306(F) 20=-306(F) 36=-307(F) 37=-307(F) 38=-306(F) 39=-306(F) 40=-306(F) 41=-306(F) 42=-306(F)

Job Truss Truss Type Qty Summit/30 Woodside 146904251 2880703 **B1** Roof Special 3 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:15 2021 Page 1 Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

6-9-13

20-0-0

6-4-0

ID:clow4Ylgf7iox0?ly?5BCcz33zm-MvRZfvOILjm3tVbnzTiOl12JzK5wU9xtTSRTAWz_Pd2 40-0-0 40-10₋8 0-10-8 26-4-0 29-2-0 34-6-13 4-7-0 1-9-0 2-10-0 5-4-13 5-5-3

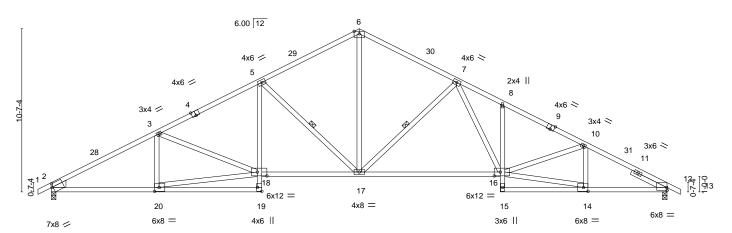
Scale = 1:74.9 5x8 =

Structural wood sheathing directly applied.

5-17, 7-17

Rigid ceiling directly applied.

1 Row at midpt



		6-10-3	13-8-0	20-0-0	1	29-2-0	34-6-13	40-0-0	
	ı	6-10-3	6-9-13	6-4-0		9-2-0	5-4-13	5-5-3	
Plate Offset	ts (X,Y)	[2:0-0-15,0-2-10], [4:0-3	3-0,Edge], [9:0-3-	0,Edge], [12:Edge,0-2-4]	, [14:0-3-8,0-3-0], [¹	16:0-4-12,0-3-0], [18:0	-7-8,0-3-0], [19:Edge	e,0-3-8], [20:0-3-8,0-	3-0]
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES GF	RIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.81	Vert(LL)	-0.26 16-17 >999	240	MT20 19	7/144
TCDL	20.0	Lumber DOL	1.15	BC 0.98	Vert(CT)	-0.72 16-17 >669	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.78	Horz(CT)	0.24 12 n/a	n/a		
BCDL	10.0	Code IRC2018/7	TPI2014	Matrix-AS	` ′			Weight: 197 lb	FT = 20%
								J	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 *Except*

2-19,12-15: 2x4 SP 2400F 2.0E

6-10-3

WEBS 2x4 SPF No.2 WEDGE

Left: 2x6 SPF No.2

SLIDER Right 2x4 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 12=0-3-8

Max Horz 2=-184(LC 17)

Max Uplift 2=-316(LC 12), 12=-318(LC 13) Max Grav 2=2270(LC 1), 12=2284(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3908/522, 3-5=-3782/530, 5-6=-2808/474, 6-7=-2796/472, 7-8=-4166/603,

8-10=-4195/549, 10-12=-3785/515

BOT CHORD 2-20=-546/3379, 19-20=-26/282, 5-18=-86/651, 17-18=-419/3285, 16-17=-274/3206,

8-16=-367/130, 12-14=-372/3297

WEBS 3-20=-425/134, 18-20=-526/3132, 5-17=-1227/345, 6-17=-239/1826, 7-17=-1138/323,

7-16=-185/1096, 14-16=-338/3167, 10-16=-24/412, 10-14=-617/118

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 20-0-0, Exterior(2R) 20-0-0 to 24-0-0, Interior(1) 24-0-0 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 316 lb uplift at joint 2 and 318 lb uplift at joint 12.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



July 8,2021



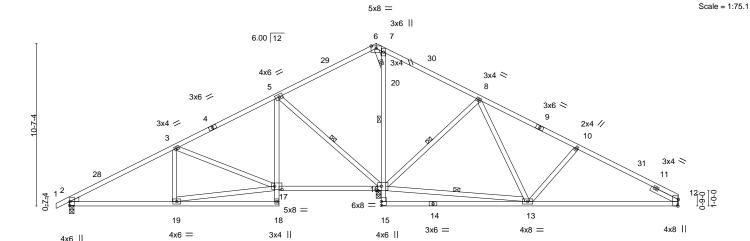


Job Truss Truss Type Qty Summit/30 Woodside 146904252 2880703 B2 Roof Special Job Reference (optional) Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:16 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-q5?xsFPx61uwVfAzXBDdlEbXRjVGDdF0h6A1iyz_Pd1 -0-10₋₈ 20-0-0 26-8-5 33-0-11 39-8-8 6-10-3 6-9-13 6-4-0 6-4-5 6-4-5 6-7-13



	6-10-3	13-8-0	1	20-3-8	20-4-0	29-10-8		1	39-8-8	1
	6-10-3	6-9-13	1	6-7-8	0-0-8	9-6-8			9-10-0	1
Plate Offsets (X,Y) [12:0-5-1,Edge], [16:	0-2-12,0-3-4], [17:0	-5-12,0-2-8	3]						
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DO Lumber DOL Rep Stress In Code IRC201	1.15 or YES	CSI. TC BC WB Matr	0.64 0.71 0.65 ix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.15 13-15 -0.29 13-15 0.03 16	l/defl >999 >791 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 186 lb	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied.

7-16

5-16, 13-16, 8-16

Rigid ceiling directly applied. Except:

1 Row at midpt

1 Row at midpt

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except*

16-17: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

WEDGE Left: 2x4 SPF No.2

SLIDER Right 2x4 SPF No.2 2-0-0

REACTIONS. (size) 2=0-3-8, 16=0-3-8, 12=Mechanical

Max Horz 2=195(LC 12)

Max Uplift 2=-168(LC 12), 16=-304(LC 12), 12=-147(LC 13) Max Grav 2=1051(LC 25), 16=2649(LC 1), 12=854(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-1453/222, 3-5=-761/157, 5-6=0/614, 6-7=0/657, 7-8=0/651, 8-10=-789/208, TOP CHORD

10-12=-1063/229

BOT CHORD 2-19=-292/1196, 5-17=-62/570, 16-17=-99/576, 16-20=-1044/132, 7-20=-462/105,

12-13=-122/942

17-19=-278/1125, 3-17=-716/211, 5-16=-1161/323, 13-16=-19/256, 8-16=-973/317,

8-13=-110/677, 10-13=-552/232, 6-20=-668/116

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 39-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 168 lb uplift at joint 2, 304 lb uplift at joint 16 and 147 lb uplift at joint 12.
- 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/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



July 8,2021







Job Truss Truss Type Qty Summit/30 Woodside 146904253 HIP 2880703 **B**3 Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:18 2021 Page 1

Structural wood sheathing directly applied, except

7-18, 10-17

2-0-0 oc purlins (10-0-0 max.): 7-9.

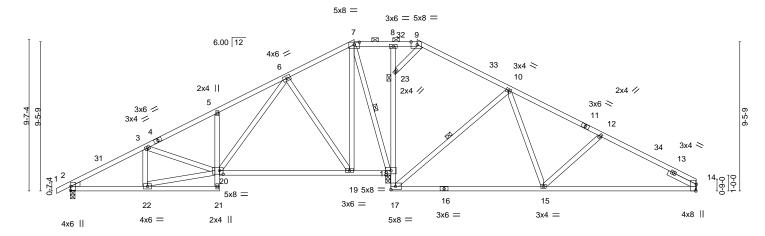
Rigid ceiling directly applied.

1 Row at midpt

1 Brace at Jt(s): 23

ID:clow4Ylgf7iox0?ly?5BCcz33zm-nU6iHwRBee8dkzJMecF5NfgtTXBEhUIJ9Pf7nrz_Pd? 1-8-0

Scale = 1:73.1



			20-4-0			
4-8-15	9-5-8	18-0-0	20-3-8 22-0-0	30-0-4	39-8-8	39-8-11
4-8-15	4-8-9	8-6-8	2-3-8 0-0-8	8-0-4	9-8-4	0-0-3
			1-8-0			

Plate Offsets (X,Y)	[7:0-4-0,0-1-15], [9:0-4-10),Edge], [14:0	0-5-1,Edge], [2	0:0-2-12,0	2-12]	1-0-0						
LOADING (ps	f)	SPACING-	2-0-0	CSI.		DI	EFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.	0	Plate Grip DOL	1.15	TC	0.60	Ve	ert(LL)	-0.17 1	5-17	>999	240	MT20	197/144
TCDL 20.	0	Lumber DOL	1.15	BC	0.75	Ve	ert(CT)	-0.36 1	5-17	>634	180		
BCLL 0.	0	Rep Stress Incr	YES	WB	0.87	H	orz(CT)	0.03	18	n/a	n/a		
BCDL 10.	0	Code IRC2018/TF	PI2014	Matrix	-AS							Weight: 193 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except*

18-20: 2x4 SP 2400F 2.0E

2x4 SPF No.2 WEBS WEDGE

Left: 2x4 SPF No.2

SLIDER Right 2x4 SPF No.2 2-0-0

REACTIONS. (size) 2=0-3-8, 18=0-3-8, 14=Mechanical

Max Horz 2=175(LC 12)

Max Uplift 2=-178(LC 12), 18=-294(LC 12), 14=-207(LC 13) Max Grav 2=1096(LC 25), 18=2451(LC 1), 14=973(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1621/255, 3-5=-1456/264, 5-6=-1462/360, 7-8=-12/334, 8-9=0/472, 9-10=-29/355,

10-12=-1030/314, 12-14=-1315/354

BOT CHORD 2-22=-326/1370, 5-20=-407/170, 19-20=-85/589, 17-18=-147/746, 18-23=-662/95, 8-23=-346/60, 15-17=-67/642, 14-15=-236/1165

WEBS 20-22=-298/1359, 6-20=-263/1099, 6-19=-903/287, 7-19=-148/859, 7-18=-1073/205, 10-17=-1009/283, 10-15=-60/604, 12-15=-473/203, 9-23=-403/65

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-0-0, Exterior(2E) 18-0-0 to 22-0-0, Exterior(2R) 22-0-0 to 26-2-15, Interior(1) 26-2-15 to 39-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 2, 294 lb uplift at joint 18 and 207 lb uplift at joint 14.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 8,2021



Job Truss Truss Type Qty Summit/30 Woodside 146904254 2880703 B4 Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:20 2021 Page 1

4-4-0

ID:clow4Ylgf7iox0?ly?5BCcz33zm-jsESicSRAFOLzHTlm0IZS4IBZLsg9S_ccj8Eqjz_Pcz 24-0-0 31-8-8 39-8-8 3-8-0 7-8-8 8-0-0

Structural wood sheathing directly applied, except

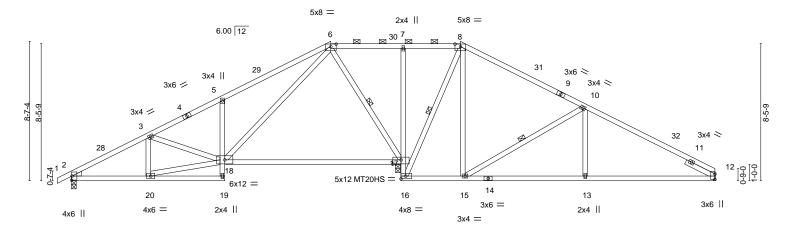
6-17, 10-15, 8-16

2-0-0 oc purlins (10-0-0 max.): 6-8.

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:71.1



	4-	0-13 3-3-0		10-0-0	20-3-6	20-4-0 24-0	-0	31-0-0	,	39-0-0	39-q-14
	4-	8-15 4-8-9		6-6-8	4-3-8	0-0-8 3-8-	0 '	7-8-8		8-0-0	0-ძ-6
Plate Offset	s (X,Y)	[6:0-4-0,0-1-15], [8:0-4-0),0-1-15], [12:0	-4-1,0-0-1], [17:0	-6-0,0-3-0]						
LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC 0.	76	Vert(LL)	-0.26 17-18	>946	240	MT20	197/144
TCDL 2	20.0	Lumber DOL	1.15	BC 0.	75	Vert(CT)	-0.53 17-18	>465	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB 0.0	60	Horz(CT)	0.03 17	n/a	n/a		
BCDL [*]	10.0	Code IRC2018/T	PI2014	Matrix-AS	s l					Weight: 184 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD**

2x4 SPF No.2 *Except* 17-18: 2x4 SP 2400F 2.0E

2x4 SPF No.2

WEBS WEDGE

-0-10-8 0-10-8

4-8-15

4-8-9

6-6-8

Left: 2x4 SPF No.2

SLIDER Right 2x4 SPF No.2 2-0-0

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 12=Mechanical

Max Horz 2=158(LC 12)

Max Uplift 2=-224(LC 12), 17=-203(LC 12), 12=-251(LC 13) Max Grav 2=1063(LC 25), 17=2495(LC 1), 12=935(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1550/341, 3-5=-1386/374, 5-6=-1490/519, 6-7=0/466, 7-8=0/463, 8-10=-373/332,

10-12=-1196/418

BOT CHORD 2-20=-383/1304, 5-18=-566/238, 16-17=-107/1093, 7-17=-344/126, 13-15=-274/1037,

12-13=-274/1037

WEBS 18-20=-304/1302, 6-17=-1150/242, 8-15=-95/657, 10-15=-1002/280, 10-13=0/334,

8-16=-1197/133, 6-18=-352/1434

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 16-0-0, Exterior(2R) 16-0-0 to 20-5-12, Interior(1) 20-5-12 to 24-0-0, Exterior(2R) 24-0-0 to 28-2-15, Interior(1) 28-2-15 to 39-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint 2, 203 lb uplift at joint 17 and 251 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 8,2021





Job Truss Truss Type Qty Summit/30 Woodside 146904255 2880703 **B**5 Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:22 2021 Page 1 ID:clow4Ylgf7iox0?ly?5BCcz33zm-fFMD7IUhite3Dad7tRK1YVrY_8XbdJqu41dLvcz_Pcx

6-4-0

26-0-0

5-8-0

32-8-8

6-8-8

Structural wood sheathing directly applied, except

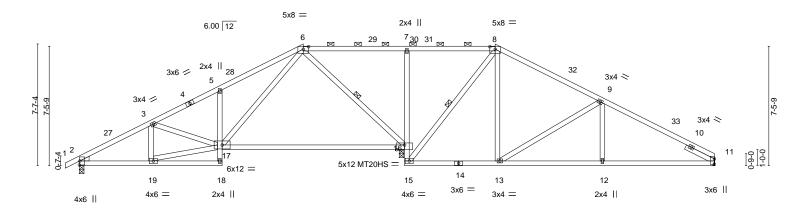
2-0-0 oc purlins (10-0-0 max.): 6-8.

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:72.0

7-0-0



	4-5	5-12 _I	8-11-2	14-0-0		20-3-8	20-4-0	26-0-0		32-8-8	39-8-8	39-8-12
	4-5	5-12	4-5-7	5-0-14	1	6-3-8	0-0-8	5-8-0		6-8-8	7-0-0	0-0-4
Plate Offse	ets (X,Y)	[6:0-4-0,0-1	-15], [8:0-4-0,0)-1-15], [11:0-4	I-1,0-0-1], <u> </u>	16:0-6-0,Edge	e]					
LOADING	(psf)	SPA	CING-	2-0-0	CSI.		DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate	Grip DOL	1.15	TC	0.70	Vert(LL)	-0.31 16-1	7 >800	240	MT20	197/144
TCDL	20.0	Lumi	ber DOL	1.15	BC	0.78	Vert(CT)	-0.62 16-1	7 >395	180	MT20HS	148/108
BCLL	0.0	Rep	Stress Incr	YES	WB	0.83	Horz(CT	0.03 1	6 n/a	n/a		
BCDL	10.0	Code	e IRC2018/TP	I2014	Matr	ix-AS					Weight: 177 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 *Except*

16-17: 2x4 SP 2400F 2.0E

2x4 SPF No.2 WEBS

WEDGE

Left: 2x4 SPF No.2

SLIDER Right 2x4 SPF No.2 2-0-0

REACTIONS. (size) 11=Mechanical, 2=0-3-8, 16=0-3-8

Max Horz 2=140(LC 12)

Max Uplift 11=-235(LC 13), 2=-226(LC 12), 16=-209(LC 12) Max Grav 11=940(LC 26), 2=1081(LC 25), 16=2460(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

4-5-7

5-0-14

TOP CHORD 2-3=-1595/348, 3-5=-1516/386, 5-6=-1559/491, 6-7=0/413, 7-8=0/415, 8-9=-589/323,

9-11=-1252/391

BOT CHORD 2-19=-375/1349, 5-17=-435/183, 16-17=-153/524, 15-16=-77/931, 7-16=-598/199,

13-15=-58/388, 12-13=-261/1098, 11-12=-261/1098

WEBS 3-19=-274/112, 17-19=-301/1384, 6-17=-265/1222, 6-16=-1187/234, 8-15=-1128/128,

8-13=-71/573, 9-13=-819/235, 9-12=0/273

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 14-0-0, Exterior(2R) 14-0-0 to 18-2-15, Interior(1) 18-2-15 to 26-0-0, Exterior(2R) 26-0-0 to 30-2-15, Interior(1) 30-2-15 to 39-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 235 lb uplift at joint 11, 226 lb uplift at joint 2 and 209 lb uplift at joint 16.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 8,2021





Job Truss Truss Type Qty Summit/30 Woodside 146904256 2880703 B6 Hip Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:24 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:clow4Ylgf7iox0?ly?5BCcz33zm-beUzY_VyEUunSunW?sMVdwwroyFd5BtBXL6SzUz_Pcv 28-0-0 4-2-0 7-8-0 5-8-8 6-0-0

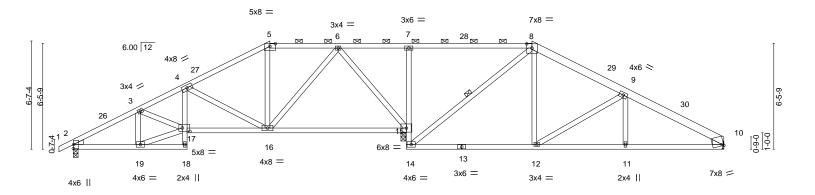
Structural wood sheathing directly applied, except

2-0-0 oc purlins (5-11-7 max.): 5-8.

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:70.3



	3-11-6	1 6-11-6	12-0-0	20)-3-8	20 - 4-0	28-0-0	1	33-8-8	1 39-8-8	39-8-9
	3-11-6	3-0-0	5-0-10	8	-3-8	0-0-8	7-8-0	'	5-8-8	6-0-0	0- 0 -1
Plate Off	sets (X,Y)	[5:0-4-0,0-1-15], [8:0-4-0	0,0-3-3], [10:Ed	lge,0-0-15], [17	:0-5-8,0-2	-8]					
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.09 12-14	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.20 12-14	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.04 15	n/a	n/a		
BCDL	10.0	Code IRC2018/T	TPI2014	Matrix-	AS					Weight: 183 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD 8-10: 2x6 SPF No.2

3-11-6

3-0-0

5-0-10

4-2-0

BOT CHORD 2x4 SPF No.2 *Except* 15-17: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 10=Mechanical

Max Horz 2=121(LC 12)

Max Uplift 2=-185(LC 12), 15=-269(LC 9), 10=-190(LC 13) Max Grav 2=1109(LC 25), 15=2399(LC 1), 10=964(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1636/267, 3-4=-1912/356, 4-5=-1110/227, 5-6=-903/236, 6-7=0/363, 7-8=0/326,

8-9=-864/249, 9-10=-1443/313

BOT CHORD 2-19=-289/1385, 4-17=-70/435, 16-17=-331/1734, 15-16=-59/439, 14-15=-42/812, 7-15=-604/191, 12-14=-30/670, 11-12=-205/1198, 10-11=-205/1198

4-16=-942/278, 6-16=-93/729, 6-15=-1162/166, 8-12=-50/521, 9-12=-607/210,

3-19=-470/127, 17-19=-278/1335, 3-17=-26/327, 8-14=-1179/118

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-0-0, Exterior(2R) 12-0-0 to 16-2-0, Interior(1) 16-2-0 to 28-0-0, Exterior(2R) 28-0-0 to 32-2-15, Interior(1) 32-2-15 to 39-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 2, 269 lb uplift at ioint 15 and 190 lb uplift at joint 10.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 8,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining 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

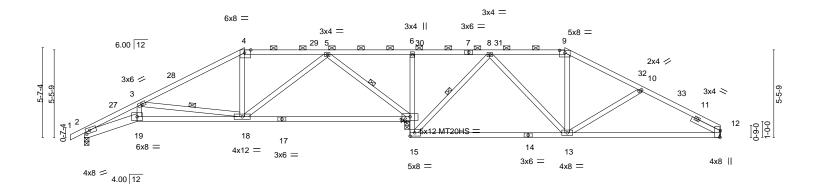
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Summit/30 Woodside 146904257 2880703 **B7** Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:25 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-4q1LlKWa_o0e42MiZatk98T2fMWhqnzLm?s?Vxz_Pcu 25-3-12 30-0-0 34-8-8 6-8-8 5-2-0 5-2-0 4-11-12 4-8-4 4-8-8 5-0-0

Scale = 1:71.9



3-3-8		15-2-0	20-3-8	20-4-0 25-	3-12	30-0-0		39-8-8	39-8-10
3-3-8	6-8-8	5-2-0	5-1-8	0-0-8 4-1	1-12	4-8-4	1	9-8-8	0-0-2
Plate Offsets (X,Y)	[2:0-2-15,0-2-0], [4:0-4-10,Edge	e], [9:0-4-0,0-1-15], [1	2:0-5-1,Edge]	, [16:0-6-0,0-2-1	2]				
LOADING (not)	CDACING 0.0	0 001		DEEL	in (las)	1/4041	1 /4	DIATES	CDID
LOADING (psf)	SPACING- 2-0-			DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.1	5 TC	0.73	Vert(LL)	-0.19 16-18	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL 1.1	5 BC	0.95	Vert(CT)	-0.40 13-15	>572	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr YE	S WB	0.36	Horz(CT)	0.12 16	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix	k-AS					Weight: 162 lb	FT = 20%

TOP CHORD

BOT CHORD

WEBS

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 *Except*

3-3-8 3-3-8

2-19: 2x6 SPF No.2, 16-17: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

SLIDER Right 2x4 SPF No.2 2-0-0

REACTIONS. (size) 12=Mechanical, 2=0-3-8, 16=0-3-8

Max Horz 2=105(LC 12)

Max Uplift 12=-205(LC 13), 2=-209(LC 12), 16=-320(LC 9) Max Grav 12=960(LC 26), 2=1099(LC 25), 16=2418(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3292/719, 3-4=-1456/295, 4-5=-1199/315, 5-6=-9/456, 6-8=0/399, 8-9=-862/299,

9-10=-1050/293, 10-12=-1396/360

2-19=-712/2967, 18-19=-678/2794, 16-18=-148/693, 15-16=-117/938, 6-16=-484/147, **BOT CHORD**

13-15=-91/475, 12-13=-252/1197

WEBS 3-19=-116/709, 3-18=-1616/480, 10-13=-400/173, 8-13=-28/603, 8-15=-1174/212,

5-18=-71/657, 5-16=-1431/317

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed: MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2R) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 30-0-0, Exterior(2R) 30-0-0 to 34-2-15, Interior(1) 34-2-15 to 39-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 12, 209 lb uplift at joint 2 and 320 lb uplift at joint 16.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except

3-18, 8-15, 5-16

2-0-0 oc purlins (5-0-3 max.): 4-9.

Rigid ceiling directly applied.

1 Row at midpt

July 8,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining 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 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

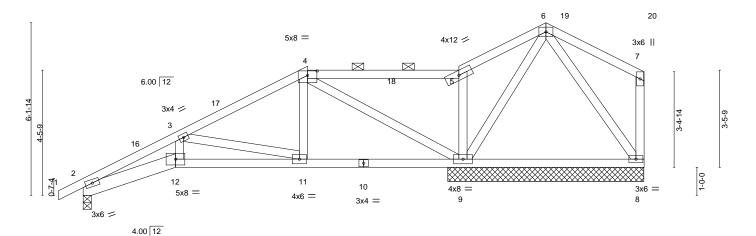




ID:clow4Ylgf7iox0?ly?5BCcz33zm-Y0bjzfXCl58VhCxu6HOziL?H0I_OZ6XU?fbY2Nz_Pct 16-6-0 4-8-8 5-4-12 3-1-4 3-6-0

> Scale = 1:41.1 4x6 =

Structural wood sheathing directly applied, except end verticals, and



	3-3-8	8-0-		13-4-12			19-11-14		
	3-3-8	4-8-	-8 '	5-4-12			6-7-2	0-0-	2
Plate Offsets (X,Y)	[4:0-4-0,0-1-15]								
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	1.15 YES	CSI. TC 0.50 BC 0.41 WB 0.85	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.05 11-12 -0.11 11-12 0.04 9	I/defI >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018	/TPI2014	Matrix-AS					Weight: 87 lb	FT = 20%

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 TOP CHORD

BOT CHORD 2x4 SPF No.2 *Except* 2-0-0 oc purlins (10-0-0 max.): 4-5.

2-12: 2x6 SPF No.2 **BOT CHORD** Rigid ceiling directly applied. WEBS 2x4 SPF No.2

REACTIONS. All bearings 6-11-14 except (jt=length) 2=0-3-8.

Max Horz 2=179(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 7, 2 except 8=-199(LC 25), 9=-319(LC 12) Max Grav All reactions 250 lb or less at joint(s) 7, 8 except 2=664(LC 1), 9=1598(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-1583/348, 3-4=-557/119, 4-5=-205/601, 5-6=-197/728 TOP CHORD

BOT CHORD 2-12=-521/1407, 11-12=-488/1307, 9-11=-161/416

WEBS 3-12=-97/383, 3-11=-899/334, 4-11=-37/360, 4-9=-1171/344, 6-9=-909/273,

6-8=-98/308

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 16-6-0, Exterior(2R) 16-6-0 to 19-6-0, Interior(1) 19-6-0 to 19-10-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Bearing at joint(s) 7, 2 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) 7, 2 except (jt=lb) 8=199, 9=319,
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 8,2021





Job Truss Truss Type Qty Summit/30 Woodside 146904259 2880703 **B9** Half Hip Girder Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:27 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:clow4Ylgf7iox0?ly?5BCcz33zm-0D96A?YqWPHMJLV5g_wCFZYPL9IYldZeDJL6apz_Pcs

3-8-8

2-8-8

6-0-0

Scale = 1:24.3

13-0-0

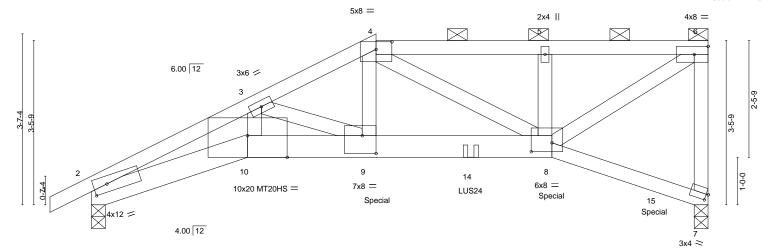
3-3-8

13-0-0

Structural wood sheathing directly applied or 2-4-14 oc purlins,

except end verticals, and 2-0-0 oc purlins (3-10-4 max.): 4-6.

Rigid ceiling directly applied or 6-0-0 oc bracing.



	Г	3-3-8	1	2-	8-8	1	3-8	3-8		1	3-3-8	1
Plate Off	sets (X,Y)	[2:0-3-7,0-2-0], [4:0-4-0,0-1	-15], [7:0-0	-8,0-1-8], [8:0	-5-4,0-2-4], [9:0	-3-8,0-4-8], [10	:0-10-0,	Edge]				
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.09	9-10	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.19	9-10	>792	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.13	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matri	x-MS						Weight: 58 lb	FT = 20%
					I							

BOT CHORD

LUMBER-BRACING-TOP CHORD

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x6 SPF 2100F 1.8E *Except*

7-8: 2x4 SPF No.2

WEBS 2x4 SPF No.2

0-10-8

3-3-8

REACTIONS. (size) 7=0-3-8, 2=0-3-8

Max Horz 2=137(LC 7) Max Uplift 7=-489(LC 5), 2=-323(LC 8)

Max Grav 7=1789(LC 1), 2=1449(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD $2\text{-}3\text{=-}4357/1033,\ 3\text{-}4\text{=-}3322/844,\ 4\text{-}5\text{=-}2097/559,\ 5\text{-}6\text{=-}2071/549,\ 6\text{-}7\text{=-}1539/431}$ BOT CHORD

2-10=-1029/3892. 9-10=-978/3698. 8-9=-804/2889 **WEBS** 3-10=-159/694, 4-8=-920/258, 5-8=-362/119, 6-8=-689/2476, 4-9=-419/1590,

3-9=-756/221

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 7, 2 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) 7=489, 2=323.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 8-0-0 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 827 lb down and 281 lb up at 6-0-0, and 306 lb down and 119 lb up at 9-8-8, and 307 lb down and 118 lb up at 12-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2

ROTESSIONAL

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd Chesterfield, MO 63017

OF MISSO

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THOMAS

OHNSON

NUMBER

PE-2017018993

July 8,2021

Job	Truss	Truss Type	Qty	Ply	Summit/30 Woodside
					146904259
2880703	B9	Half Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:27 2021 Page 2 ID:clow4Ylgf7iox0?ly?5BCcz33zm-0D96A?YqWPHMJLV5g_wCFZYPL9IYldZeDJL6apz_Pcs

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-90, 4-6=-90, 10-11=-20, 8-10=-20, 7-8=-20

Concentrated Loads (lb)

Vert: 8=-306(B) 9=-827(B) 14=-306(B) 15=-307(B)



Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:29 2021 Page 1

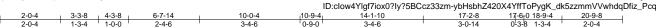
Structural wood sheathing directly applied or 3-0-15 oc purlins,

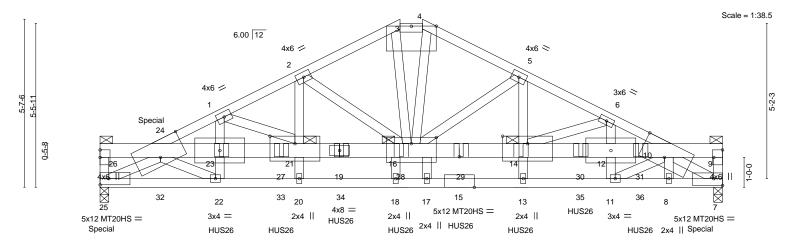
except end verticals, and 2-0-0 oc purlins (5-3-14 max.): 3-4.

Rigid ceiling directly applied or 10-0-0 oc bracing. Except:

6-0-0 oc bracing: 24-26, 9-10

1 Brace at Jt(s): 26, 9, 21, 16, 14





	4-3-8						10-9-4		18-1-4 19-0-0				
1	2-0-4	3-3-8	4-1-12	6-7-14	8-0-4	10-0-4	10-4-12	14-1-10	17-2-8	17-6 ₁ 0	18-9-4 ₁ 19-3 ₁ 4	20-9-8	1
	2-0-4	1-3-4	0-10-4	2-4-6	1-4-6	2-0-0	0-4-8	3-4-6	3-0-14	0-3-8	10-8-0 10-3-4	1-6-4	_
			0-1-12				0-4-8			0-7-	-4 0-2-12		
Plate Offsets (X Y)	[3:0-10-0 0	-0-11 [7·F	dge 0-2-11	21 [9·Edge 0-	3-81 [10-0-0-1	1 Edge] [1	4.0-10-0 0-	3-01 [16:0-10-0 0-2-8]	[21:0-10-0 0-3-0] [24.0-10-0	n Edgel		

BOT CHORD

JOINTS

T late Oil	3013 (A, I)	[3.0-10-0,0-0-1], [7.Luge,0-2-12], [3.1	.uge,0-5-0], [10.0-3-11,Eug	5], [14.0-10-0,0-3-0], [10.0-10-0,0-2-0], [21.0-10-0,0-3-0]	j, [24.0-10-0,Luge]
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.70	Vert(LL) -0.13 16-21 >999 240	MT20 197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.62	Vert(CT) -0.26 16-21 >939 180	MT20HS 148/108
BCLL	0.0	Rep Stress Incr NO	WB 0.71	Horz(CT) 0.11 7 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 273 lb FT = 20%

LUMBER-BRACING-TOP CHORD

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x6 SPF 2100F 1.8E *Except*

15-25,7-15: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

REACTIONS.

(size) 25=0-3-8, 7=0-3-8 Max Horz 25=86(LC 26)

Max Uplift 25=-1115(LC 8), 7=-1195(LC 9)

Max Grav 25=6830(LC 1), 7=6349(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

25-26=-1128/165, 1-24=-10185/1719, 1-2=-8317/1519, 2-3=-5905/1182, 3-4=-5477/1124, TOP CHORD

4-5=-5905/1185, 5-6=-7969/1704, 6-10=-9566/2137, 7-9=-1015/166

BOT CHORD 24-26=-468/65, 23-24=-816/409, 21-23=-816/409, 16-21=-1856/494, 14-16=-2092/351, 12-14=-1244/90, 10-12=-1244/90, 9-10=-557/110, 22-25=-1773/9785, 20-22=-1732/9263,

18-20=-1732/9263, 17-18=-1754/9189, 13-17=-1760/9171, 11-13=-1760/9171,

8-11=-1801/9018, 7-8=-1772/8921

WEBS 1-21=-1493/183, 2-21=-324/2374, 2-16=-2623/439, 5-16=-2230/646, 5-14=-519/1981,

16-18=0/253, 24-25=-10741/1915, 22-23=0/535, 22-24=-777/58, 1-23=-219/1977, 3-16=-497/2344, 4-16=-498/2353, 8-10=-492/163, 7-10=-9642/1917, 10-11=-39/433,

6-12=-426/1702, 6-14=-1204/370

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc, 2x4 - 1 row at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 24-25 2x4 - 1 row at 0-7-0 oc, member 10-7 2x4 - 1 row at 0-7-0

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated
- 7) All plates are 10x20 MT20HS unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 25=1115, 7=1195.





July 8,2021



Job	Truss	Truss Type	Qty	Ply	Summit/30 Woodside	
2880703	C1	ROOF SPECIAL GIRDER	1	_		146904260
2000703		ROOF SPECIAL GIRDER	'	2	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:29 2021 Page 2

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10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- 12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-0-12 from the left end to 18-0-12 to connect truss(es) to front face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 80 lb down at 0-0-12, and 1568 lb down and 403 lb up at 2-0-7, and 854 lb down and 147 lb up at 20-0-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-24=-90, 3-4=-90, 4-10=-90, 24-26=-160, 9-10=-160, 25-32=-160, 22-32=-110, 8-22=-20, 7-8=-160

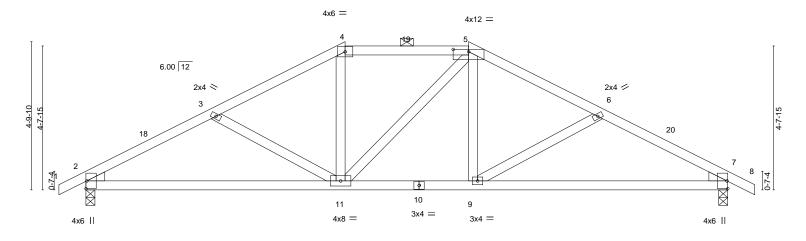
Concentrated Loads (lb)

Vert: 19=-1024(F) 14=-880(F) 24=-1623(F) 23=-1001(F) 10=-854(F) 27=-1024(F) 28=-900(F) 29=-904(F) 30=-875(F) 31=-903(F)

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Summit/30 Woodside 146904261 2880703 C2 Hip Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:30 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:clow4Ylgf7iox0?ly?5BCcz33zm-QorEo1ajpKfxApEgL7TvsBA_rNJcV5m4vHZmB8z_Pcp 0-10-8 21-8-0 0-10-8 16-6-15 20-9-8 4-2-9 4-2-3 4-0-0 4-2-3 4-2-9

Scale = 1:37.3



8-4-12 4-0-0 Plate Offsets (X,Y)--[5:0-6-0,0-0-15] **PLATES** LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.32 Vert(LL) -0.08 9-17 >999 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 BC 0.58 Vert(CT) -0.18 9-17 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.05 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 80 lb Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

12-4-12

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2 WEDGE

Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 7=0-3-8

Max Horz 2=-80(LC 17)

Max Uplift 2=-178(LC 12), 7=-178(LC 13) Max Grav 2=1222(LC 1), 7=1222(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD $2-3=-1874/336,\ 3-4=-1556/288,\ 4-5=-1319/295,\ 5-6=-1555/288,\ 6-7=-1874/336$

BOT CHORD 2-11=-260/1602, 9-11=-130/1319, 7-9=-238/1602

WEBS 3-11=-328/154, 4-11=-22/310, 5-9=-25/310, 6-9=-328/154

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-4-12, Exterior(2E) 8-4-12 to 12-4-12, Exterior(2R) 12-4-12 to 16-8-14, Interior(1) 16-8-14 to 21-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=178, 7=178
- 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/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



20-9-8

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-11-8 max.): 4-5.

Rigid ceiling directly applied.

July 8,2021





Job Truss Truss Type Qty Summit/30 Woodside 146904262 2880703 C3 Hip Girder Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:32 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:clow4Ylgf7iox0?ly?5BCcz33zm-MAy?DjbzLxveP7O2TYVNycFE_A2lzy7NNb2tF1z_Pcn 0-10-8 21-8-0 0-10-8 10-4-12 17-6-15 20-9-8

4-0-0

3-2-3

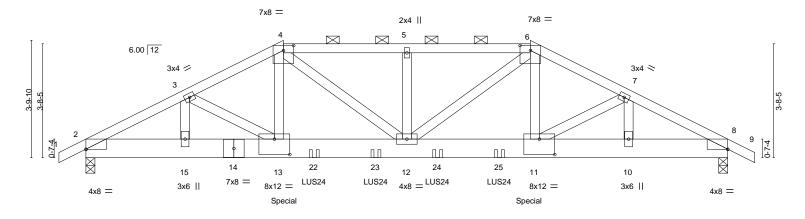
Structural wood sheathing directly applied or 2-1-2 oc purlins, except

2-0-0 oc purlins (2-8-14 max.): 4-6.

4-0-0

Scale = 1:37.3

3-2-9



3-2-9	6-4-12	10-4-12	14-4-1	2	17-6-15	1 20-9-8	3
3-2-9	3-2-3	4-0-0	4-0-0		3-2-3	3-2-9	<u>'</u>
[2:0-0-0,0-0-1], [4:0-4	4-0,0-1-15], [6:0-4-0,	0-1-15], [8:0-0-0,0-0-1], [1	1:0-6-0,0-6-0], [13:0-6-	0,0-6-0]			
SPACING-	2-0-0	CSI.	DEFL. in	(loc) I/de	efl L/d	PLATES	GRIP
Plate Grip DO	L 1.15	TC 0.73	Vert(LL) -0.13	12 >99	9 240	MT20	197/144
Lumber DOL	1.15	BC 0.35	Vert(CT) -0.28	12 >90	6 180		
Rep Stress In	cr NO	WB 0.33	Horz(CT) 0.04	8 n	/a n/a		
Code IRC201	18/TPI2014	Matrix-MS				Weight: 123 lb	FT = 20%
	SPACING- Plate Grip DC Lumber DOL Rep Stress In	[2:0-0-0,0-0-1], [4:0-4-0,0-1-15], [6:0-4-0, SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	2:0-0-0,0-0-1], [4:0-4-0,0-1-15], [6:0-4-0,0-1-15], [8:0-0-0,0-0-1], [1 SPACING-	2:0-0-0,0-0-1], [4:0-4-0,0-1-15], [6:0-4-0,0-1-15], [8:0-0-0,0-0-1], [11:0-6-0,0-6-0], [13:0-6-0], [C20-0-0,0-0-1], [4:0-4-0,0-1-15], [6:0-4-0,0-1-15], [8:0-0-0,0-0-1], [11:0-6-0,0-6-0], [13:0-6-0,0-6-0] SPACING-	C20-0-0,0-0-1], [4:0-4-0,0-1-15], [6:0-4-0,0-1-15], [8:0-0-0,0-0-1], [11:0-6-0,0-6-0], [13:0-6-0,0-6-0] SPACING-	2:0-0-0,0-0-1], [4:0-4-0,0-1-15], [6:0-4-0,0-1-15], [8:0-0-0,0-0-1], [11:0-6-0,0-6-0], [13:0-6-0,0-6-0]

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD TOP CHORD

3-2-3

4-6: 2x4 SPF 1650F 1.5E **BOT CHORD** 2x8 SP 2400F 2.0E

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 8=0-3-8

Max Horz 2=-62(LC 34)

Max Uplift 2=-653(LC 8), 8=-653(LC 9) Max Grav 2=2768(LC 1), 8=2768(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-4795/1151, 3-4=-5144/1280, 4-5=-5253/1279, 5-6=-5253/1279, 6-7=-5144/1280, 7-8=-4795/1153

2-15=-1030/4235, 13-15=-1030/4235, 12-13=-1080/4534, 11-12=-1018/4534,

10-11=-969/4235, 8-10=-969/4235 WEBS 3-15=-528/158, 3-13=-258/546, 4-13=-362/1351, 4-12=-263/1009, 5-12=-483/151,

6-12=-263/1009, 6-11=-362/1352, 7-11=-259/546, 7-10=-528/157

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 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/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 7-4-12 from the left end to 13-4-12 to connect truss(es) to back face of bottom chord.
- 9) Fill all nail holes where hanger is in contact with lumber.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 890 lb down and 308 lb up at 6-4-12, and 890 lb down and 308 lb up at 14-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



July 8,2021

Continued on page 2





Job	Truss	Truss Type	Qty	Ply	Summit/30 Woodside
					146904262
2880703	C3	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:32 2021 Page 2 ID:clow4Ylgf7iox0?ly?5BCcz33zm-MAy?DjbzLxveP7O2TYVNycFE_A2lzy7NNb2tF1z_Pcn

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-90, 4-6=-90, 6-9=-90, 16-19=-20

Concentrated Loads (lb)

Vert: 13=-890(B) 11=-890(B) 22=-328(B) 23=-328(B) 24=-328(B) 25=-328(B)

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Summit/30 Woodside 146904263 2880703 CJ1 Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:33 2021 Page 1 ID:clow4Ylgf7iox0?ly?5BCcz33zm-rMWNR3cb6F1V1GzF1F0cUqoW7aOpiQBWcFoQoTz_Pcm -1-2-14 1-2-14 4-7-2 Scale = 1:22.5 2x4 || 5 Special 4.24 12 3x4 = 13 3 NAILED 9-7 NAILED 12 Ш 15 5x8 = 0-7-4 NAILED 4x6 = NAILED NAII FD NAILED 2.83 12 3x4 = LOADING (psf) SPACING-CSI. DEFL. I/defI L/d **PLATES** GRIP 2-0-0 (loc) 25.0 Plate Grip DOL Vert(LL) -0.03 >999 240 197/144 **TCLL** 1.15 TC 0.32 8 MT20

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.06

0.03

8 >999

n/a

except end verticals.

180

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing.

Structural wood sheathing directly applied or 4-11-3 oc purlins,

Weight: 31 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 *Except* **BOT CHORD**

20.0

0.0

10.0

2-8: 2x6 SPF No.2 WEBS 2x4 SPF No.2

REACTIONS.

(size) 2=0-4-3, 7=Mechanical

Max Horz 2=129(LC 5)

Max Uplift 2=-139(LC 4), 7=-134(LC 8) Max Grav 2=606(LC 1), 7=549(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1349/296

BOT CHORD 2-8=-320/1245, 7-8=-303/1168 WFBS 3-8=-37/335, 3-7=-1217/339

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate

ВС

WB

Matrix-MP

0.36

0.28

2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

NO

- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=139, 7=134.
- 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/TPI 1.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 112 lb down and 92 lb up at 5-7-7, and 112 lb down and 92 lb up at 5-7-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-90, 4-5=-40, 8-9=-20, 6-8=-20

Concentrated Loads (lb)

Vert: 13=-140(F=-70, B=-70) 14=2(F=1, B=1)



July 8,2021



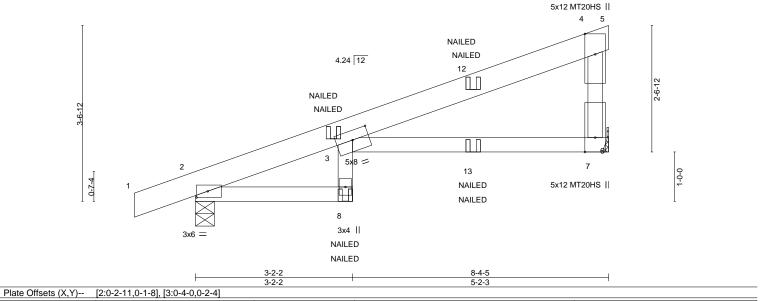


Job Truss Truss Type Qty Summit/30 Woodside 146904264 2880703 CJ₂ Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:33 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-rMWNR3cb6F1V1GzF1F0cUqoMvaLZiUXWcFoQoTz_Pcm

8-4-5 1-2-14 5-2-3

Scale = 1:23.3



SPACING-**PLATES** GRIP LOADING (psf) CSI. DEFL. in (loc) I/def L/d TCLL 25.0 Plate Grip DOL 1.15 TC 0.91 Vert(LL) 0.15 3-7 >668 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 BC 0.57 Vert(CT) -0.303-7 >324 180 MT20HS 148/108 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.14 n/a n/a Code IRC2018/TPI2014 **BCDL** 10.0 Matrix-MR Weight: 31 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2

WEBS 2x4 SPF No.2

(size) 7=Mechanical, 2=0-4-9

Max Horz 2=127(LC 5)

Max Uplift 7=-152(LC 8), 2=-159(LC 4) Max Grav 7=538(LC 1), 2=607(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 3-10=-251/33, 3-4=-285/54, 4-7=-360/124

BOT CHORD 3-7=-87/270

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are MT20 plates 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=152 2=159
- 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/TPI 1.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-90, 3-4=-90, 4-5=-40, 8-9=-20, 3-6=-20

Concentrated Loads (lb)

Vert: 8=-12(F=-6, B=-6) 12=-10(F=-5, B=-5) 13=-106(F=-53, B=-53)



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

July 8,2021







Job Truss Truss Type Qty Summit/30 Woodside 146904265 2880703 CJ2A Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:34 2021 Page 1

Valley Center, KS - 67147,

ID:clow4Ylgf7iox0?ly?5BCcz33zm-JZ4leOdDtZ9MfQYRazYr11KhH_kwRu9gqvXzKvz_Pcl 1-2-14 4-2-3 4-2-3

Scale = 1:21.9

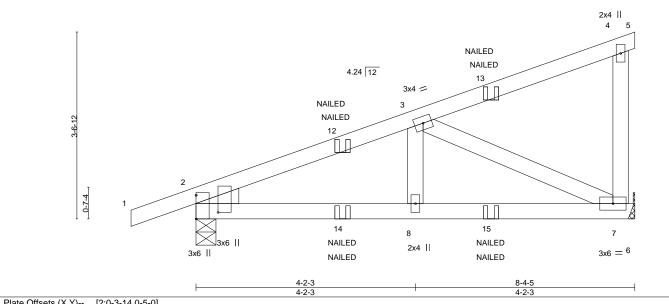


Plate Oil	SelS (A, f)	[2.0-3-14,0-3-0]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL) 0.02 7-8 >999 240	MT20 197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.04 7-8 >999 180	
BCLL	0.0	Rep Stress Incr NO	WB 0.23	Horz(CT) 0.01 7 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 32 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 **WEBS** 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 7=Mechanical, 2=0-4-9

Max Horz 2=149(LC 7)

Max Uplift 7=-151(LC 8), 2=-161(LC 4) Max Grav 7=523(LC 1), 2=601(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-740/178

BOT CHORD 2-8=-205/655, 7-8=-205/655

WEBS 3-7=-720/240

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=151, 2=161.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-90, 4-5=-40, 6-9=-20 Concentrated Loads (lb)

Vert: 13=-7(F=-3, B=-3) 14=-12(F=-6, B=-6) 15=-88(F=-44, B=-44)



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

July 8,2021





Job Truss Truss Type Qty Summit/30 Woodside 146904266 2880703 CJ3 Diagonal Hip Girder 2 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:35 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-nle7skeresHDGa7d8g34ZFtq_O3dAJKp3ZHXsLz_Pck

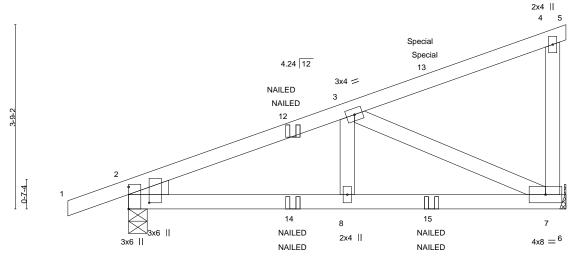
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1-2-14 4-5-8 4-5-8

Scale = 1:23.5



8-11-1 Plate Offsets (X Y)-- [2:0-3-14 0-5-0]

	0010 (71,17)	[2.0 0 1 1,0 0 0]				
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) 1/c	defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) -0.02 7-8 >9	999 240	MT20 197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.05 7-8 >9	999 180	
BCLL	0.0	Rep Stress Incr NO	WB 0.30	Horz(CT) 0.01 7	n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MP			Weight: 34 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 7=Mechanical, 2=0-4-9

Max Horz 2=143(LC 7)

Max Uplift 7=-173(LC 8), 2=-170(LC 4) Max Grav 7=591(LC 1), 2=646(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-842/201

BOT CHORD 2-8=-229/750, 7-8=-229/750

3-7=-822/275 **WEBS**

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=173, 2=170.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 80 lb down and 82 lb up at 6-2-3, and 80 lb down and 82 lb up at 6-2-3 on top chord. The design/selection of such connection device(s) is the responsibility of
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-90, 4-5=-40, 6-9=-20

Concentrated Loads (lb)

Vert: 13=-68(F=-34, B=-34) 14=-18(F=-9, B=-9) 15=-72(F=-36, B=-36)



July 8,2021





Job Truss Truss Type Qty Summit/30 Woodside 146904267 2880703 CJ4 Diagonal Hip Girder 2 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:36 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:clow4Ylgf7iox0?ly?5BCcz33zm-FxCV34eTPAP4ukhpiNaJ6SQ32nUJvqMyID04Ooz_Pcj 2-9-3 1-2-14 Scale = 1:17.3 3x6 || NAILED NAILED 4.24 12 3x4 = 3 H 6 2x4 || 3x6 NAILED NAILED Plate Offsets (X,Y)-- [2:0-3-14,0-5-0]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) -0.00 7 >999 240	MT20 197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.11	Vert(CT) -0.01 7 >999 180	
BCLL 0.0	Rep Stress Incr NO	WB 0.06	Horz(CT) 0.00 6 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 22 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2 WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 4=Mechanical, 6=Mechanical, 2=0-4-9

Max Horz 2=102(LC 7)

Max Uplift 4=-27(LC 8), 6=-40(LC 8), 2=-113(LC 4) Max Grav 4=96(LC 1), 6=191(LC 1), 2=418(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-353/75

BOT CHORD 2-7=-80/309, 6-7=-80/309

WEBS 3-6=-347/109

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 6 except (jt=lb) 2=113.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-4=-90, 5-8=-20

Concentrated Loads (lb) Vert: 7=-9(F=-6, B=-3)



Structural wood sheathing directly applied or 5-6-6 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

July 8,2021







Job Truss Truss Type Qty Summit/30 Woodside 146904268 2880703 CJ5 Diagonal Hip Girder 2 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:37 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:clow4Ylgf7iox0?ly?5BCcz33zm-j8muGQf6AUXxWuG0G55YfgyAYBmVeHX6WtmexEz_Pci 5-1-13 1-2-14 5-1-13 Scale = 1:17.2 2x4 || 4.24 12 0-7-4 12 NAILED NAILED 5 3x6 || 2x4 || 3x6 || Plate Offsets (X,Y)--[2:0-3-14,0-5-0] SPACING-**PLATES** LOADING (psf) CSI. DEFL. in (loc) I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.42 Vert(LL) 0.04 6-11 >999 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 ВС 0.37 Vert(CT) -0.07 6-11 >862 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.01 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MP Weight: 17 lb LUMBER-**BRACING-**TOP CHORD Structural wood sheathing directly applied or 5-1-13 oc purlins,

BOT CHORD

except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 6=Mechanical, 2=0-7-0

Max Horz 2=98(LC 7)

Max Uplift 6=-89(LC 8), 2=-146(LC 4) Max Grav 6=281(LC 1), 2=466(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2 = 146
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-90, 3-4=-40, 5-7=-20

Concentrated Loads (lb)

Vert: 12=-82(F=-41, B=-41)



July 8,2021





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Summit/30 Woodside 146904269 2880703 D1 Common Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:38 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:clow4Ylgf7iox0?ly?5BCcz33zm-BKKGUmgkxnfo82rCpocnBtVM8b?8NgAFIXVBTgz_Pch 14-11-13 0-3-5 19-8-8 4-11-13 4-8-8 4-8-11 Scale = 1:36.3 4x8 = 6.00 12 17 2x4 > 2x4 / 2 3x4 > 0-7-4 5x8 = 4x6 || 4x8 || 10-0-0 19-8-8 Plate Offsets (X,Y)--[6:0-3-8,Edge], [7:0-4-0,0-3-4] SPACING-L/d **PLATES** LOADING (psf) CSI. DEFL. (loc) I/def GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.36 Vert(LL) -0.14 7-14 >999 240 197/144 MT20 TCDL 20.0 Lumber DOL 1.15 ВС 0.73 Vert(CT) -0.29 7-14 >817 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.30 Horz(CT) 0.05 6 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 69 lb Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 **BOT CHORD** WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

SLIDER Right 2x4 SPF No.2 2-0-0

REACTIONS. (size) 6=Mechanical, 1=0-3-8

Max Horz 1=92(LC 12)

Max Uplift 6=-144(LC 13), 1=-146(LC 12) Max Grav 6=1084(LC 1), 1=1084(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-1740/373, 2-3=-1293/294, 3-4=-1288/293, 4-6=-1639/363

1-7=-276/1485, 6-7=-255/1412 **BOT CHORD**

WEBS 2-7=-508/208, 3-7=-83/607, 4-7=-436/196

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 19-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=144, 1=146.
- 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/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



July 8,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

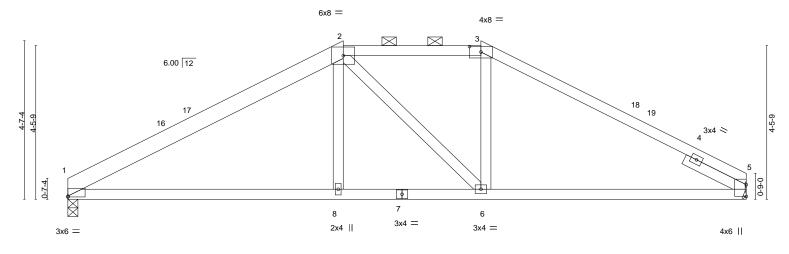
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Summit/30 Woodside 146904270 2880703 D1A Hip Job Reference (optional)
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:39 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:clow4Ylgf7iox0?ly?5BCcz33zm-fWueh6hMh5nflBQONW70k52RU?On690P_BFk?7z_Pcg 12-0-0 8-0-0 4-0-0 7-8-8

Scale = 1:33.5



	0-0-0		4-0-0		7-0-0	
Plate Offsets (X,Y)	[1:0-0-0,0-0-5], [3:0-4-0,0-1-15]					
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.71 BC 0.51 WB 0.13 Matrix-AS	DEFL. in (loc) Vert(LL) -0.07 8-11 Vert(CT) -0.18 8-11 Horz(CT) 0.03 5	l/defl L/d >999 240 >999 180 n/a n/a		RIP 7/144 FT = 20%

12-0-0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD 1-2: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

SLIDER Right 2x4 SPF No.2 2-0-0

REACTIONS. (size) 1=0-3-8, 5=Mechanical

Max Horz 1=76(LC 12)

Max Uplift 1=-132(LC 12), 5=-129(LC 13) Max Grav 1=1084(LC 1), 5=1084(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-1569/277, 2-3=-1271/312, 3-5=-1475/287 **BOT CHORD** 1-8=-172/1300, 6-8=-173/1296, 5-6=-167/1274

3-6=-6/253 **WEBS**

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-0-0, Exterior(2E) 8-0-0 to 12-0-0, Exterior(2R) 12-0-0 to 16-2-15, Interior(1) 16-2-15 to 19-8-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=132, 5=129
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



19-8-8

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-10-3 max.): 2-3.

Rigid ceiling directly applied.

July 8,2021



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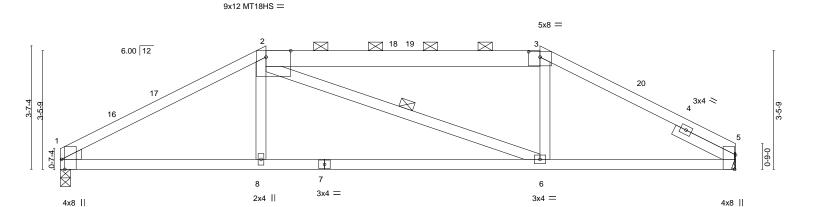
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Job Truss Truss Type Qty Summit/30 Woodside 146904271 2880703 D2 Hip Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:39 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:clow4Ylgf7iox0?ly?5BCcz33zm-fWueh6hMh5nflBQONW70k52SA?Ni6AnP_BFk?7z_Pcg 19-8-8 6-0-0 8-0-0 5-8-8

Scale = 1:33.6



L		6-0-0	i .	14-0-0	1	19-8-8			
		6-0-0	I	8-0-0	ı	5-8-8	1		
Plate Offs	sets (X,Y)	[1:0-3-8,Edge], [2:0-8-10,Edge],	3:0-4-0,0-1-15], [5:0-5-1,Edge]						
LOADING	G (psf)	SPACING- 2-0-	CSI.	DEFL. in (loc)	/defl L/d	PLATES GRIP			
TCLL	25.0	Plate Grip DOL 1.1:	TC 0.67	Vert(LL) -0.12 6-8 >	999 240	MT20 197/144			
TCDL	20.0	Lumber DOL 1.1	BC 0.58	Vert(CT) -0.30 6-8	799 180	MT18HS 197/144			
BCLL	0.0	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.06 5	n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 71 lb FT =	20%		

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-5-15 max.): 2-3.

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD 2-3: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

SLIDER Right 2x4 SPF No.2 2-0-0

REACTIONS. (size) 5=Mechanical, 1=0-3-8

Max Horz 1=55(LC 12)

Max Uplift 5=-145(LC 13), 1=-148(LC 12) Max Grav 5=1084(LC 1), 1=1084(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-1777/296, 2-3=-1431/300, 3-5=-1677/289 **BOT CHORD** 1-8=-204/1503, 6-8=-207/1496, 5-6=-187/1438

WFBS 2-8=0/294, 3-6=0/295

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-0-0, Exterior(2R) 6-0-0 to 10-2-15, Interior(1) 10-2-15 to 14-0-0, Exterior(2R) 14-0-0 to 18-2-15, Interior(1) 18-2-15 to 19-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=145, 1=148.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 8,2021

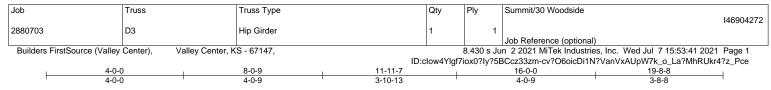


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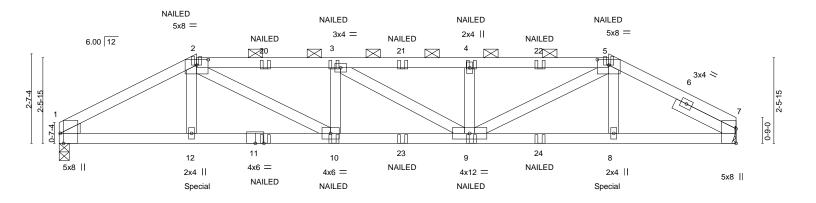
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Scale = 1:33.5



	4-0-0 4-0-0	8-0-9 4-0-9		11-11-7 3-10-13		16-0- 4-0-		19-8-8	3
Plate Offsets (X,Y) [1:0-3-8,Edge], [2:0-4-0,0-1-15], [5:0-4-0,0-1-15]				3-10-13				3-0-0	
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip Di Lumber DOL Rep Stress I Code IRC20	1.15 nor NO	CSI. TC 0.90 BC 0.96 WB 0.39 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.14 9-10 -0.31 9-10 0.08 7		L/d 240 180 n/a	PLATES MT20 Weight: 73 lb	GRIP 197/144 FT = 20%

TOP CHORD

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD

BOT CHORD 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2 2-0-0 oc purlins (2-3-9 max.): 2-5. WEDGE **BOT CHORD** Rigid ceiling directly applied or 7-7-13 oc bracing

Left: 2x4 SPF No.2

Right 2x4 SPF No.2 2-0-0 SLIDER

REACTIONS. (size) 7=Mechanical, 1=0-3-8

Max Horz 1=37(LC 29)

Max Uplift 7=-377(LC 9), 1=-373(LC 8) Max Grav 7=1595(LC 1), 1=1582(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-2776/679, 2-3=-3655/922, 3-4=-3618/911, 4-5=-3620/912, 5-7=-2599/647 **BOT CHORD** 1-12=-588/2412, 10-12=-587/2399, 9-10=-901/3653, 8-9=-520/2248, 7-8=-520/2259 2-12=-17/258, 2-10=-400/1483, 3-10=-506/193, 4-9=-528/197, 5-9=-425/1607 **WEBS**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=377, 1=373
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 215 lb down and 93 lb up at 4-0-0, and 215 lb down and 93 lb up at 15-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



Structural wood sheathing directly applied or 2-2-10 oc purlins,

July 8,2021





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Job	Truss	Truss Type	Qty	Ply	Summit/30 Woodside
					146904272
2880703	D3	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:41 2021 Page 2 ID:clow4Ylgf7iox0?ly?5BCcz33zm-cv?O6oicDi1N?VanVxAUpW7k_o_La?MhRUkr4?z_Pce

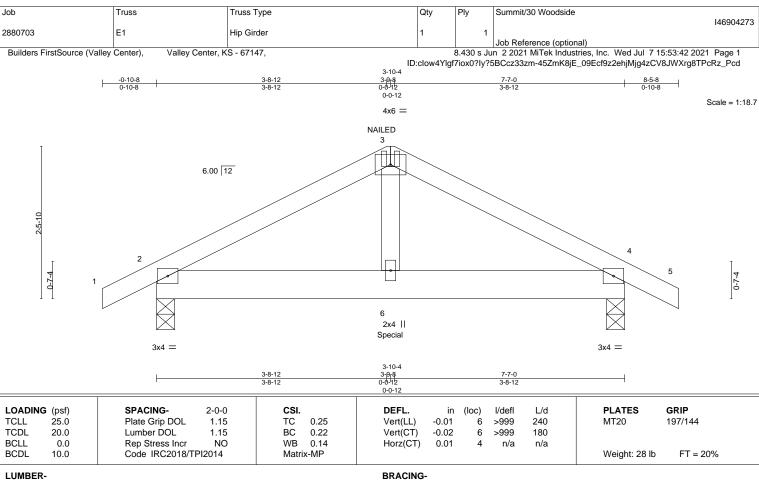
LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-90, 2-5=-90, 5-7=-90, 13-17=-20

Concentrated Loads (lb)

Vert: 2=-45(B) 5=-45(B) 11=-53(B) 12=-215(B) 10=-53(B) 3=-45(B) 4=-45(B) 9=-53(B) 8=-215(B) 20=-45(B) 21=-45(B) 22=-45(B) 23=-53(B) 24=-53(B)



TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x6 SPF No.2 WEBS 2x4 SPF No.2

REACTIONS.

2=0-3-8, 4=0-3-8 (size) Max Horz 2=-41(LC 34) Max Uplift 2=-200(LC 8), 4=-200(LC 9) Max Grav 2=789(LC 1), 4=789(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-1055/301, 3-4=-1055/300 TOP CHORD **BOT CHORD** 2-6=-228/870, 4-6=-228/870

WEBS 3-6=-170/586

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=200, 4=200,
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 553 lb down and 258 lb up at 3-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-90, 3-5=-90, 7-10=-20 Concentrated Loads (lb) Vert: 3=-34(B) 6=-553(B)



Structural wood sheathing directly applied or 5-6-4 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

July 8,2021



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Job Truss Truss Type Qty Summit/30 Woodside 146904274 2880703 E2 Common Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:43 2021 Page 1 ID:clow4Ylgf7iox0?ly?5BCcz33zm-Yl79XTktlKl4EpkAcMCyuxCGqcs92?R_voDy8uz_Pcc 7-7-0 8-5-8 0-10-8 3-9-8 3-9-8 0-10-8 Scale = 1:18.4 4x6 =3 6.00 12 13 6 2x4 || 4x6 || 3-9-8 3-9-8

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

I/defI

>999

>999

n/a

Rigid ceiling directly applied.

(loc)

6-9

6-9

2

-0.01

-0.01

0.00

L/d

240

180

n/a

Structural wood sheathing directly applied.

PLATES

Weight: 24 lb

MT20

GRIP

197/144

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

25.0

20.0

0.0

10.0

WEDGE

Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 4=0-3-8

Max Horz 2=41(LC 12)

Max Uplift 2=-76(LC 12), 4=-76(LC 13) Max Grav 2=496(LC 1), 4=496(LC 1)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-484/221, 3-4=-484/221 TOP CHORD BOT CHORD 2-6=-83/368, 4-6=-83/368

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-9-8, Exterior(2R) 3-9-8 to 6-11-11, Interior(1) 6-11-11 to 8-5-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

0.18

0.17

0.04

TC

ВС

WB

Matrix-AS

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

2-0-0

1.15

1.15

YES

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



July 8,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Summit/30 Woodside 146904275 2880703 J1 Jack-Closed 12 Job Reference (optional)
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:43 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:clow4Ylgf7iox0?ly?5BCcz33zm-Yl79XTktlKl4EpkAcMCyuxCA5coN2?0_voDy8uz_Pcc -0-10-8 0-10-8 6-0-0 Scale = 1:21.5 2x4 || 4 6.00 12

0-7-4 6 5 4x6 ||

6-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL Vert(LL) 0.07 >924 240 197/144 **TCLL** 1.15 TC 0.54 6-9 MT20 **TCDL** 20.0 Lumber DOL 1.15 ВС 0.41 Vert(CT) -0.14 6-9 >505 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.03 2 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-AS Weight: 20 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

WEDGE Left: 2x4 SPF No.2

REACTIONS. (size) 6=Mechanical, 2=0-3-8

Max Horz 2=139(LC 11)

Max Uplift 6=-82(LC 12), 2=-59(LC 12) Max Grav 6=326(LC 1), 2=399(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.







Job Truss Truss Type Qty Summit/30 Woodside 146904276 2880703 J2 Jack-Closed 3 Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

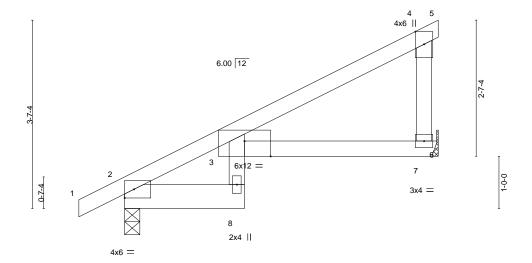
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:49 2021 Page 1 ID:clow4Ylgf7iox0?ly?5BCcz33zm-NRUQoXpdLA2EykBJzcJM8CS801pOSjVtHkgGMYz_PcW

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

0-10-8

Scale = 1:22.0



6-0-0

BRACING-

TOP CHORD

BOT CHORD

Plate Offs	sets (X,Y)	[3:0-6-0,Eage]			
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.71	Vert(LL) 0.09 8 >743 240	MT20 197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.56	Vert(CT) -0.16 8 >439 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.10 7 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 21 lb FT = 20%

LUMBER-

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 *Except*

2-8: 2x6 SPF No.2 WEBS 2x4 SPF No.2

REACTIONS. (size) 7=Mechanical, 2=0-3-8

Max Horz 2=118(LC 9)

Max Uplift 7=-82(LC 12), 2=-58(LC 12) Max Grav 7=327(LC 1), 2=401(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-0-5, Interior(1) 2-0-5 to 6-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





Job Truss Truss Type Qty Summit/30 Woodside 146904277 2 2880703 J3 Jack-Open Job Reference (optional)
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:50 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:clow4Ylgf7iox0?ly?5BCcz33zm-re2o?tpG6TA5aumWWKqbgP?PMREwBAl0WOPqu_z_PcV 2-3-8 2-3-8 3-10-15 0-10-8 Scale = 1:15.7 6.00 12 1-6-12 4x12 =9-0-10 0-7-4 6_{2x4} || 3x4 = Plate Offsets (X,Y)--[2:0-1-7,0-1-8], [3:0-6-0,0-1-12] SPACING-**PLATES** GRIP LOADING (psf) CSI. DEFL. in (loc) I/defI L/d 25.0 Plate Grip DOL TCLL 1.15 TC 0.35 Vert(LL) 0.03 6 >999 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 ВС 0.22 Vert(CT) -0.05 6 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.03 5 n/a n/a **BCDL** Code IRC2018/TPI2014 FT = 20% 10.0 Matrix-MR Weight: 13 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 *Except* **BOT CHORD**

2-6: 2x6 SPF No.2

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=94(LC 12)

Max Uplift 4=-45(LC 12), 2=-37(LC 12), 5=-15(LC 12) Max Grav 4=123(LC 1), 2=301(LC 1), 5=81(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-0-5, Interior(1) 2-0-5 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

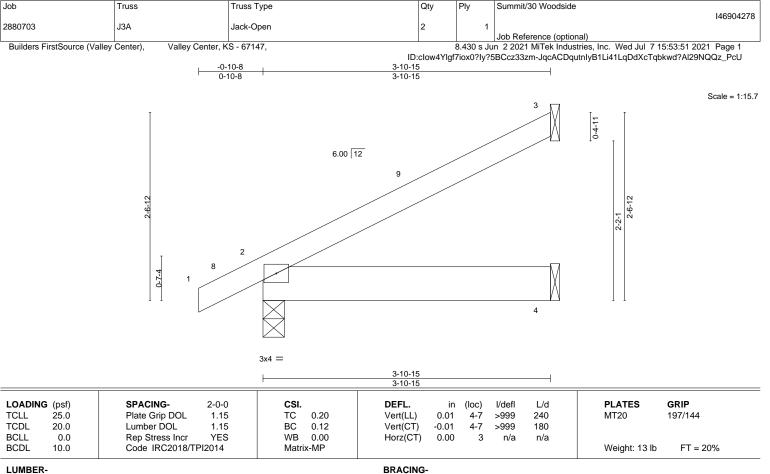


Structural wood sheathing directly applied or 3-10-15 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing.







TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x4 SPF No.2 TOP CHORD

2x6 SPF No.2 **BOT CHORD**

> Max Horz 2=94(LC 12) Max Uplift 3=-56(LC 12), 2=-38(LC 12), 4=-5(LC 12) Max Grav 3=131(LC 1), 2=299(LC 1), 4=88(LC 3)

3=Mechanical, 2=0-3-8, 4=Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 3-10-15 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.







WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

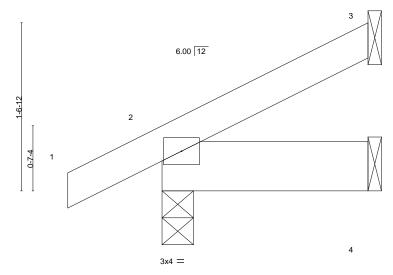


Job Truss Truss Type Qty Summit/30 Woodside 146904279 2880703 J4 Jack-Open Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:51 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:clow4Ylgf7iox0?ly?5BCcz33zm-JqcACDqutnlyB1Li41LqDdXeVqcHwd?Al29NQQz_PcU

1-10-15 0-10-8 1-10-15

Scale = 1:10.7



1-10-15 1-10-15

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00	7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00	7	>999	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP					Weight: 7 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x6 SPF No.2 **BRACING-**

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=54(LC 12)

Max Uplift 3=-26(LC 12), 2=-30(LC 12), 4=-3(LC 12) Max Grav 3=58(LC 1), 2=201(LC 1), 4=40(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







Job Truss Truss Type Qty Summit/30 Woodside 146904280 2880703 J5 Jack-Open Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:52 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

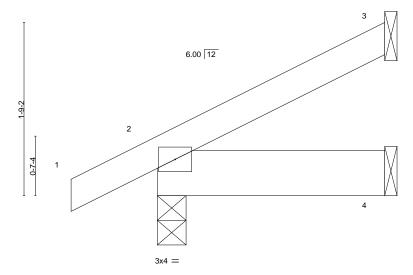
ID:clow4Ylgf7iox0?ly?5BCcz33zm-n0AYQYrWe5QppBwuels3lq4pEEyOf4EJziuwzsz_PcT

Structural wood sheathing directly applied or 2-3-11 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

2-3-11 2-3-11 0-10-8

Scale = 1:11.7



BRACING-TOP CHORD

BOT CHORD

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00 7 >999 240	MT20 197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 7 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 8 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x6 SPF No.2

> 3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=61(LC 12) Max Uplift 3=-31(LC 12), 2=-31(LC 12), 4=-4(LC 12)

> Max Grav 3=71(LC 1), 2=218(LC 1), 4=49(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



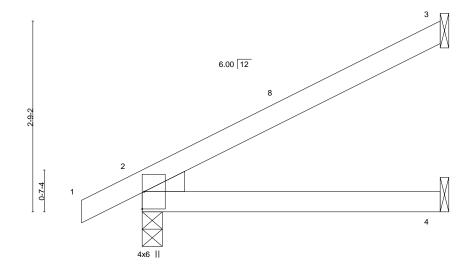


Job Truss Truss Type Qty Summit/30 Woodside 146904281 2880703 J6 Jack-Open Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:52 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:clow4Ylgf7iox0?ly?5BCcz33zm-n0AYQYrWe5QppBwuels3lq4mvEvPf4EJziuwzsz_PcT

4-3-11 0-10-8 4-3-11

Scale = 1:16.7



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 Vert(LL) 0.03 >999 240 197/144 **TCLL** TC 0.28 MT20 **TCDL** 20.0 Lumber DOL 1.15 ВС 0.22 Vert(CT) -0.04 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 2 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-AS Weight: 12 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

WEDGE Left: 2x4 SPF No.2

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=102(LC 12)

Max Uplift 3=-68(LC 12), 2=-37(LC 12), 4=-2(LC 12) Max Grav 3=161(LC 1), 2=320(LC 1), 4=83(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-2-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



July 8,2021





Job Truss Truss Type Qty Summit/30 Woodside 146904282 2880703 J7 Jack-Closed 6 Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

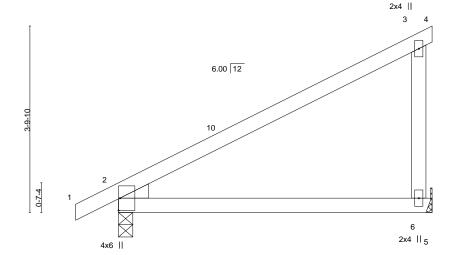
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:53 2021 Page 1 ID:clow4Ylgf7iox0?ly?5BCcz33zm-FDkxdus8OOYgRLV5CSNII2dsGeBqOWUSCMeUVJz_PcS

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

-0-10-8 0-10-8 6-4-12

Scale = 1:23.5



6-4-12

BRACING-

TOP CHORD

BOT CHORD

LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.09	6-9	>806	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.18	6-9	>417	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matri	x-AS						Weight: 21 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 **WEBS** 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 6=Mechanical, 2=0-3-8

Max Horz 2=147(LC 11)

Max Uplift 6=-87(LC 12), 2=-59(LC 12) Max Grav 6=348(LC 1), 2=421(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

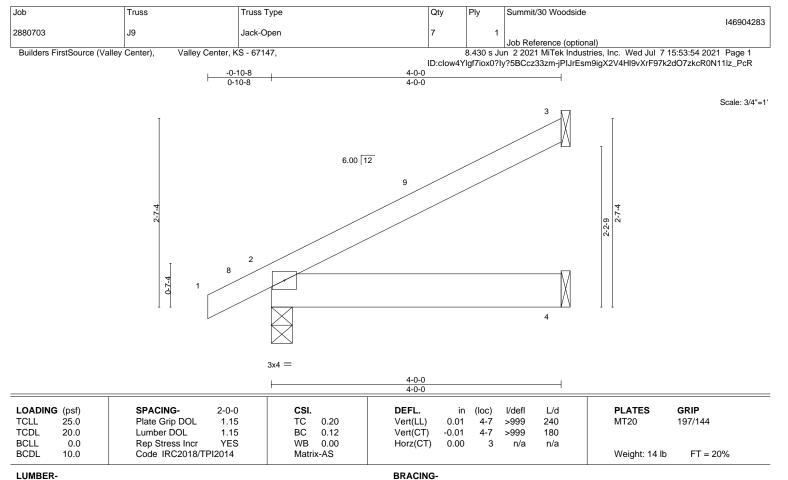
TOP CHORD 3-6=-253/225

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

REACTIONS.

2x4 SPF No.2 TOP CHORD **BOT CHORD**

2x6 SPF No.2

Max Horz 2=96(LC 12) Max Uplift 3=-58(LC 12), 2=-38(LC 12), 4=-5(LC 12) Max Grav 3=135(LC 1), 2=304(LC 1), 4=90(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

3=Mechanical, 2=0-3-8, 4=Mechanical

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 chorembers 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Summit/30 Woodside 146904284 2880703 J10 Jack-Open Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:44 2021 Page 1 ID:clow4Ylgf7iox0?ly?5BCcz33zm-0UhXkpIVWdQxszJMA3jBR8lTk0DSnSG87SyVgKz_Pcb

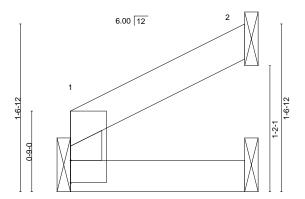
Structural wood sheathing directly applied or 1-7-7 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1-7-7

Scale = 1:10.7



3 4x8 ||

1-7-7

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
LOADING (psi)	SFACING- 2-0-0	COI.	DEFL. III (100) I/deii L/d	FLATES GRIF
TCLL 25.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) -0.00 4 >999 240	MT20 197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 4 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 2 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR		Weight: 4 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD

WEBS 2x4 SPF No.2

> 4=Mechanical, 2=Mechanical, 3=Mechanical (size)

Max Horz 4=29(LC 9)

Max Uplift 2=-30(LC 12), 3=-2(LC 12)

Max Grav 4=80(LC 1), 2=61(LC 1), 3=29(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Summit/30 Woodside 146904285 2880703 J13 Jack-Open Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:45 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:clow4Ylgf7iox0?ly?5BCcz33zm-UgFvy9l7HxYoT6uYkmEQzMlblQYXWvWHM6i3Dmz_Pca 3-8-12 3-8-12 -0-10-8 0-10-8 Scale = 1:15.2 6.00 12 0-7-4 3x4 = LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc)

LUMBER-

TCLL

TCDL

BCLL

BCDL

2x4 SPF No.2 TOP CHORD 2x6 SPF No.2 **BOT CHORD**

25.0

20.0

0.0

10.0

BRACING-

Vert(LL)

Vert(CT)

Horz(CT)

0.01

-0.01

0.00

>999

>999

n/a

3

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-8-12 oc purlins.

MT20

Weight: 13 lb

Rigid ceiling directly applied or 10-0-0 oc bracing.

240

180

n/a

REACTIONS. 3=Mechanical, 2=0-5-8, 4=Mechanical

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Max Horz 2=90(LC 12)

Max Uplift 3=-53(LC 12), 2=-37(LC 12), 4=-5(LC 12) Max Grav 3=124(LC 1), 2=290(LC 1), 4=84(LC 3)

Code IRC2018/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

TC

ВС

WB

Matrix-MP

0.18

0.11

0.00

2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

1.15

YES

- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



197/144

FT = 20%





Job Truss Truss Type Qty Summit/30 Woodside 146904286 2880703 J14 Jack-Closed Job Reference (optional)

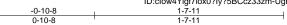
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

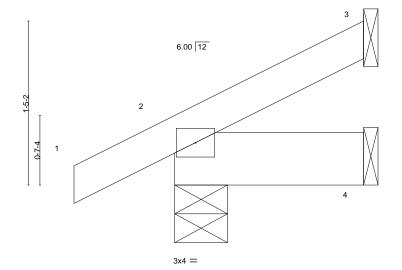
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:45 2021 Page 1 ID:clow4Ylgf7iox0?ly?5BCcz33zm-UgFvy9l7HxYoT6uYkmEQzMlb0QZFWvWHM6i3Dmz_Pca

Structural wood sheathing directly applied or 1-7-11 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



Scale = 1:10.0



LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.00	7	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MP						Weight: 6 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

1-7-11

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x6 SPF No.2

REACTIONS. (size) 2=0-5-8, 4=Mechanical

Max Horz 2=45(LC 12) Max Uplift 2=-28(LC 12), 4=-24(LC 9)

Max Grav 2=189(LC 1), 4=70(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

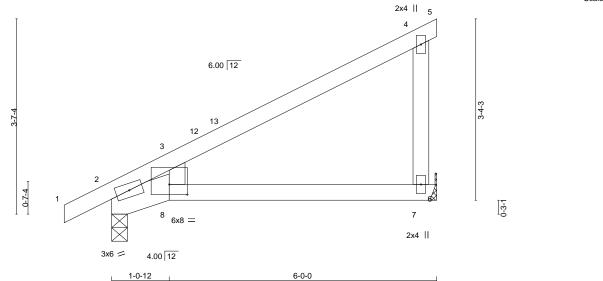




Job Truss Truss Type Qty Summit/30 Woodside 146904287 2880703 J16 Jack-Open Job Reference (optional)
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:46 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:clow4Ylgf7iox0?ly?5BCcz33zm-ytpH9Vml2Fgf5GSkHUlfWZqdHps?FL9RbmRclDz_PcZ

6-0-0 1-0-12 4-11-4

Scale = 1:21.3



	10010 (71,17	[0:0 1 0;0 2 1]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	0.10	8	>707	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.15	8	>457	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.04	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matri	x-AS						Weight: 20 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

WEBS

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 *Except*

Plate Offsets (X V)-- [8:0-4-0 0-2-4]

2-8: 2x6 SPF No.2 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 7=Mechanical

Max Horz 2=137(LC 12)

Max Uplift 2=-41(LC 12), 7=-99(LC 12) Max Grav 2=398(LC 1), 7=326(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

-0-10-8 0-10-8

TOP CHORD 2-3=-351/68

WFBS 3-8=-293/448, 4-7=-273/230

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 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/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





Job Truss Truss Type Qty Summit/30 Woodside 146904288 2880703 J17 Jack-Open Job Reference (optional)
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:47 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:clow4Ylgf7iox0?ly?5BCcz33zm-Q3MfNrnNpYoWjQ1xrBHu2nNn3DBE_pHaqQBAHfz_PcY -0-10-8 6-0-0 0-10-8 3-0-12 Scale = 1:21.2 2x4 || 5 6.00 12 2x4 | 3 13

> 3-0-12 6-0-0

> > BRACING-

TOP CHORD

BOT CHORD

5x8 =

Plate Of	tsets (X,Y)	[2:0-2-3,0-2-0]										
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	0.15	8	>462	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.25	8	>272	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.08	7	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-AS	, ,					Weight: 21 lb	FT = 20%

4.00 12

LUMBER-

2x4 SPF No.2 TOP CHORD 2x4 SPF No.2 *Except* **BOT CHORD**

2-8: 2x6 SPF No.2

WEBS 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 7=Mechanical

Max Horz 2=137(LC 12)

Max Uplift 2=-41(LC 12), 7=-99(LC 12) Max Grav 2=398(LC 1), 7=326(LC 1)

0-7-4

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 4-7=-293/221

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4x6 =

- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 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/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



0-11-1

2x4

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

July 8,2021



Job Truss Truss Type Qty Summit/30 Woodside 146904289 2880703 J18 Jack-Open 2 Job Reference (optional)
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:47 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

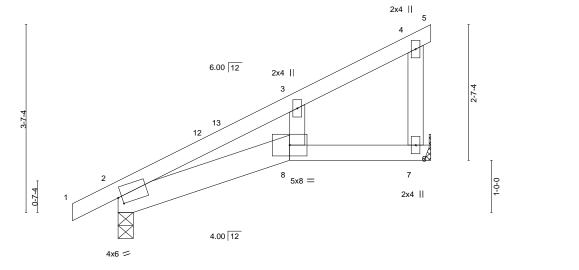
ID:clow4Ylgf7iox0?ly?5BCcz33zm-Q3MfNrnNpYoWjQ1xrBHu2nNnJDB4_pJaqQBAHfz_PcY

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

-0-10-8 3-3-8 3-3-8 0-10-8

Scale = 1:22.1



3-3-8	6-0-0
3-3-8	2-8-8

BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,Y)	[2:0-0-14,0-1-10]	3-3-0	200	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL) 0.14 8 >490 240	MT20 197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.24 8 >287 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.07 7 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 22 lb FT = 20%

LUMBER-

WEBS

2x4 SPF No.2 TOP CHORD 2x4 SPF No.2 *Except* **BOT CHORD**

2-8: 2x6 SPF No.2 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 7=Mechanical

Max Horz 2=137(LC 12)

Max Uplift 2=-41(LC 12), 7=-99(LC 12) Max Grav 2=398(LC 1), 7=326(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 4-7=-296/220

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 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/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



July 8,2021

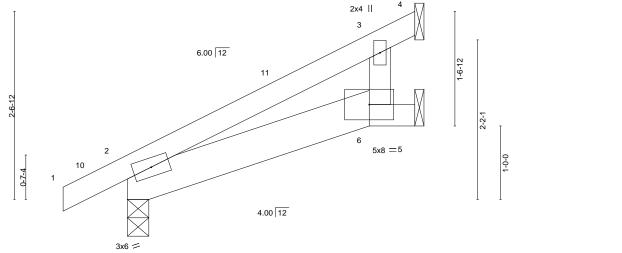


Job Truss Truss Type Qty Summit/30 Woodside 146904290 2 2880703 J19 Jack-Open Job Reference (optional)
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:48 2021 Page 1

Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:clow4Ylgf7iox0?ly?5BCcz33zm-uFw2aBo?aswNKac7Pvo7b_w54dZjjGuj24wjq5z_PcX

3-10-15 3-3-8 0-10-8 0-7-7

Scale = 1:15.7



3-10-15

Structural wood sheathing directly applied or 3-10-15 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

		I	3-3-8	0-7-7	
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.21 BC 0.14 WB 0.02	DEFL. in Vert(LL) -0.01 Vert(CT) -0.01 Horz(CT) 0.00	6 >999 240 6-9 >999 180	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP			Weight: 14 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* **BOT CHORD** 2-6: 2x6 SPF No.2

WEBS 2x4 SPF No.2

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=94(LC 12)

Max Uplift 4=-65(LC 12), 2=-36(LC 12)

Max Grav 4=197(LC 1), 2=299(LC 1), 5=11(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 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/TPI 1.



July 8,2021





Job Truss Truss Type Qty Summit/30 Woodside 146904291 2 2880703 J20 Jack-Open Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:49 2021 Page 1 ID:clow4Ylgf7iox0?ly?5BCcz33zm-NRUQoXpdLA2EykBJzcJM8CSle1xiSjVtHkgGMYz_PcW

Structural wood sheathing directly applied or 1-10-15 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

1-10-15 0-10-8 1-10-15

Scale = 1:10.7

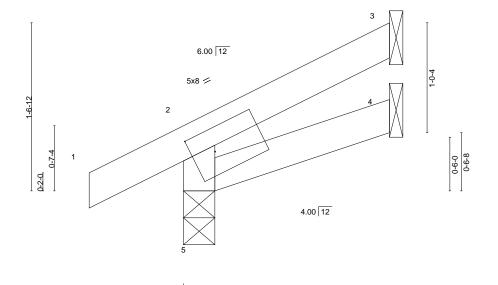


Plate Off	sets (X,Y)	[2:0-2-8,0-2-8]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	5	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-MR						Weight: 6 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 5=0-3-8

Max Horz 5=48(LC 12)

Max Uplift 3=-30(LC 12), 5=-30(LC 12) Max Grav 3=57(LC 1), 4=31(LC 3), 5=215(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.
- 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/TPI 1.



July 8,2021





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Summit/30 Woodside 146904292 2880703 LG1 **GABLE** Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:55 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:clow4Ylgf7iox0?ly?5BCcz33zm-Bbrh2atOw?oNgfeTJtQmNTiKTS_5sOtlfg7bZBz_PcQ 21-10-10 27-9-14 5-11-4 15-11-6 5-11-4

Scale = 1:46.7

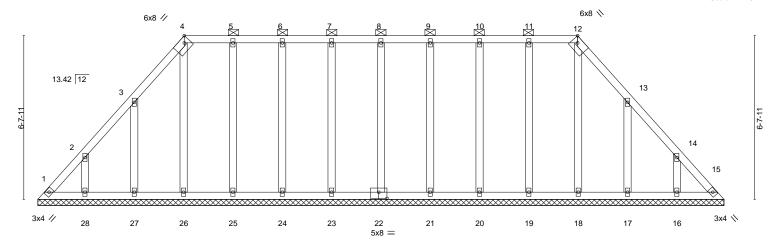


Plate Offsets (X V)-- [4:0-2-10 Edge] [12:0-2-10 Edge] [22:0-4-0 0-3-0]

Tiale Oil	3013 (71, 1)	[+.0 2 10,Lugc], [12.0 2 10	, Lugoj, [22.0	7 + 0,0 0 0]								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	15	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matri	x-S						Weight: 144 lb	FT = 20%

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 Structural wood sheathing directly applied or 6-0-0 oc purlins, except TOP CHORD

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 4-12.

OTHERS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 27-9-14. Max Horz 1=-170(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 15, 22, 23, 24, 25, 26, 21, 20, 19 except 27=-155(LC 12),

28=-140(LC 12), 17=-155(LC 13), 16=-141(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 15, 22, 23, 24, 25, 26, 28, 21, 20, 19, 18, 16 except

27=265(LC 19), 17=264(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 5-11-4, Exterior(2R) 5-11-4 to 9-10-15, Interior(1) 9-10-15 to 21-10-10, Exterior(2R) 21-10-10 to 25-10-15, Interior(1) 25-10-15 to 27-5-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 15, 22, 23, 24, 25, 26, 21, 20, 19 except (jt=lb) 27=155, 28=140, 17=155, 16=141.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Job Truss Truss Type Qty Summit/30 Woodside 146904293 2880703 LG2 **GABLE** Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:56 2021 Page 1

Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:clow4Ylgf7iox0?ly?5BCcz33zm-foP3Gwu0hJwElpDftax?wgFV6rK7brrvuKs86ez_PcP

7-10-15 7-10-15

4x6 =

Scale = 1:52.2

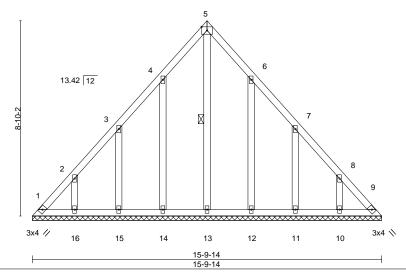


Plate Off	sets (X,Y)	[5:Edge,0-1-14]		
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) n/a - n/a 999 MT20 197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.04	Vert(CT) n/a - n/a 999
BCLL	0.0	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.01 9 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Weight: 80 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2 BRACING-

TOP CHORD **BOT CHORD WEBS**

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt 5-13

REACTIONS. All bearings 15-9-14.

Max Horz 1=-229(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 14=-145(LC 12), 15=-145(LC 12), 16=-142(LC 12),

12=-143(LC 13), 11=-146(LC 13), 10=-141(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 15, 16, 11, 10 except 14=261(LC 19), 12=259(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-311/203, 8-9=-279/197

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 7-10-15, Exterior(2R) 7-10-15 to 10-10-15, Interior(1) 10-10-15 to 15-5-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 14=145, 15=145, 16=142, 12=143, 11=146, 10=141.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 8,2021







Job Truss Truss Type Qty Ply Summit/30 Woodside 146904294 2880703 LG3 **GABLE** Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:57 2021 Page 1 ID:clow4Ylgf7iox0?ly?5BCcz33zm-8_zRTGvfSd25vyosRISESungiFfCKI727_che4z_PcO

9-10-15 9-10-15

4x6 =

Scale = 1:67.2

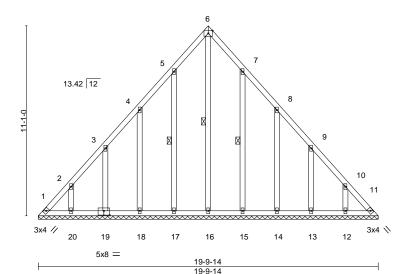


Plate Off	sets (X,Y)	[6:Edge,0-1-14], [19:0-4-0	0,0-3-0]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S						Weight: 112 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2 BRACING-

TOP CHORD **BOT CHORD WEBS**

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 6-16, 5-17, 7-15

REACTIONS. All bearings 19-9-14.

Max Horz 1=-289(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 11 except 1=-131(LC 10), 17=-140(LC 12), 18=-147(LC 12),

19=-145(LC 12), 20=-144(LC 12), 15=-138(LC 13), 14=-148(LC 13), 13=-142(LC 13), 12=-142(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 18, 20, 14, 13, 12 except 1=297(LC 12), 11=262(LC 13),

16=256(LC 13), 17=259(LC 19), 19=254(LC 19), 15=257(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-415/264, 2-3=-287/214, 10-11=-370/256

BOT CHORD $1-20 = -180/274, \ 19-20 = -180/274, \ 18-19 = -175/272, \ 17-18 = -175/272, \ 16-17 = -175/272, \ 18-19$

15-16=-175/272, 14-15=-175/272, 13-14=-175/272, 12-13=-175/272, 11-12=-175/272

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 9-10-15, Exterior(2R) 9-10-15 to 12-10-15, Interior(1) 12-10-15 to 19-5-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 1=131, 17=140, 18=147, 19=145, 20=144, 15=138, 14=148, 13=142, 12=142.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.









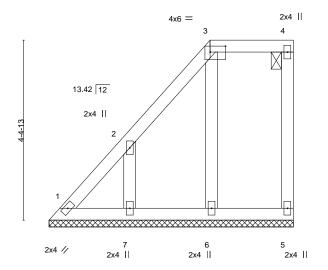
Job Truss Truss Type Qty Ply Summit/30 Woodside 146904295 2880703 LG4 **GABLE**

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

Job Reference (optional)
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:58 2021 Page 1 ID:clow4Ylgf7iox0?ly?5BCcz33zm-cAXggcwHDwAyX6N2_?zT?5KqNf?s3mgCMeLFAWz_PcN

5-11-11 3-11-4 2-0-7

Scale = 1:28.2



5-11-11

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

LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	ВС	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-P	, ,					Weight: 26 lb	FT = 20%

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 5-11-11 oc purlins, **BOT CHORD** 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins: 3-4. **WEBS** 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SPF No.2

REACTIONS. All bearings 5-11-11.

Max Horz 1=164(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 6 except 7=-164(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 7=275(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-298/318 WEBS 2-7=-285/184

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 3-11-4, Exterior(2E) 3-11-4 to 5-9-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 6 except (jt=lb) 7=164.
- 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/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Job	Truss	Truss Type	Qty	Ply	Summit/30 Woodside
					146904296
2880703	LG5	Lay-In Gable	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:59 2021 Page 1 ID:clow4Ylgf7iox0?ly?5BCcz33zm-4N5Cuywv_EJp9GyEYjUiYJt?R3LpoEELal5oiyz_PcM

3-10-15 4-10-15 2-10-15 1-0-0 1-0-0 2-10-15

> Scale = 1:29.9 3x4 =

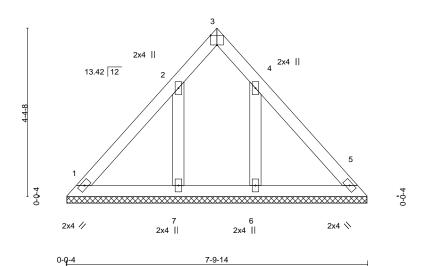


Plate Off	sets (X,Y)	[3:Edge,0-3-0]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.13	Vert(LL) n/a - n/a 999 MT20 197/144	
TCDL	20.0	Lumber DOL 1.15	BC 0.04	Vert(CT) n/a - n/a 999	
BCLL	0.0	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00 5 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P	Weight: 27 lb FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-9-7.

(lb) -Max Horz 1=-108(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) except 6=-180(LC 13), 7=-182(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=320(LC 20), 7=322(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

4-6=-313/201, 2-7=-313/203 WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 3-10-15, Exterior(2R) 3-10-15 to 6-10-15, Interior(1) 6-10-15 to 7-5-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 6 and 182 lb uplift at joint 7.
- 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/TPI 1.



July 8,2021



Job Truss Truss Type Qty Ply Summit/30 Woodside 146904297 2880703 LG6 **GABLE** Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:54:00 2021 Page 1 ID:clow4Ylgf7iox0?ly?5BCcz33zm-YZfa5HxXIYRgmQXR6Q?x4WPBEThDXgoUpyqMFPz_PcL

5-10-15 5-10-15

> Scale = 1:39.6 4x6 =

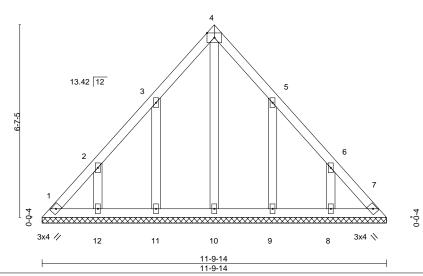


Plate Off	fsets (X,Y)	[4:Edge,0-1-14]										
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S						Weight: 52 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2 BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-9-14.

Max Horz 1=-168(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=-150(LC 12), 12=-142(LC 12), 9=-149(LC 13),

8=-142(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 12, 8 except 11=262(LC 19), 9=261(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 5-10-15, Exterior(2R) 5-10-15 to 8-10-15, Interior(1) 8-10-15 to 11-5-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 11=150, 12=142, 9=149, 8=142,
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 8,2021





Job Truss Truss Type Qty Summit/30 Woodside 146904298 Valley 2880703 V1 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:54:01 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:clow4Ylgf7iox0?ly?5BCcz33zm-0IDyJdy9WrZXOa6dg7XAdkyEUszhG7Ae2cavnrz_PcK 6-2-0 Scale = 1:21.0 6x8 II 2 6.00 12 3x4 / 3x4 > 2x4 || LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 **TCLL** 0.55 n/a n/a MT20 **TCDL** 20.0 Lumber DOL 1.15 ВС 0.27 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.08 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-S Weight: 31 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2

REACTIONS.

1=12-3-1, 3=12-3-1, 4=12-3-1 (size)

Max Horz 1=-49(LC 17)

Max Uplift 1=-54(LC 12), 3=-63(LC 13), 4=-57(LC 12) Max Grav 1=283(LC 25), 3=283(LC 26), 4=659(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-4=-481/200 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 6-2-0, Exterior(2R) 6-2-0 to 9-2-0, Interior(1) 9-2-0 to 11-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 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/TPI 1.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

July 8,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 chorembers 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



146904299 Valley 2880703 V2 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:54:02 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:clow4Ylgf7iox0?ly?5BCcz33zm-UymKWzznH9hO0khpDr2P9xVTAGMW?b6nGGJSJHz_PcJ Scale = 1:15.2 4x6 = 6 6.00 12 8 -0-0 2x4 // 2x4 || 2x4 < LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 **TCLL** 0.29 n/a n/a MT20 **TCDL** 20.0 Lumber DOL 1.15 ВС 0.11 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 20 lb FT = 20% LUMBER-**BRACING-**

TOP CHORD

BOT CHORD

Qty

Summit/30 Woodside

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Job

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2

REACTIONS.

1=8-3-1, 3=8-3-1, 4=8-3-1 (size)

Max Horz 1=31(LC 16)

Truss

Truss Type

Max Uplift 1=-42(LC 12), 3=-48(LC 13), 4=-22(LC 12) Max Grav 1=201(LC 1), 3=201(LC 1), 4=377(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-4=-288/158 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 4-2-0, Exterior(2R) 4-2-0 to 7-2-0, Interior(1) 7-2-0 to 7-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 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/TPI 1.





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Summit/30 Woodside 146904300 2880703 V3 Valley

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:54:02 2021 Page 1 ID:clow4Ylgf7iox0?ly?5BCcz33zm-UymKWzznH9hO0khpDr2P9xVTaGMW?bunGGJSJHz_PcJ

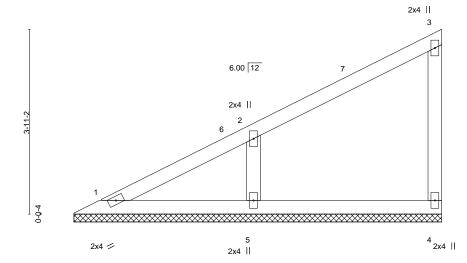
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

7-10-4

Scale = 1:24.5



LOADING	VI /		2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matri	x-P						Weight: 23 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD

2x4 SPF No.2 WEBS **OTHERS** 2x4 SPF No.2

REACTIONS. (size) 1=7-9-12, 4=7-9-12, 5=7-9-12

Max Horz 1=148(LC 9)

Max Uplift 4=-31(LC 9), 5=-128(LC 12)

Max Grav 1=132(LC 20), 4=166(LC 1), 5=489(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-2=-251/176 TOP CHORD WEBS 2-5=-400/265

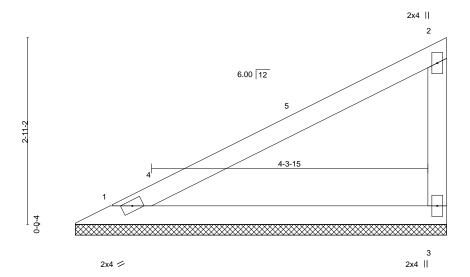
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-10-4, Interior(1) 3-10-4 to 7-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=128
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 8,2021



Job Truss Truss Type Qty Summit/30 Woodside 146904301 2880703 V4 Valley Job Reference (optional)
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:54:03 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:clow4Ylgf7iox0?ly?5BCcz33zm-y8KjkJzP2TpFdtG0nYZei91YSgeCk2zxVw30rkz_Pcl 5-10-4



LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 2	20.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 1	10.0	Code IRC2018/TF	PI2014	Matri	x-P	' '					Weight: 16 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD

WEBS 2x4 SPF No.2

> 1=5-9-12, 3=5-9-12 (size) Max Horz 1=106(LC 9)

Max Uplift 1=-38(LC 12), 3=-65(LC 12) Max Grav 1=279(LC 1), 3=279(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 5-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 5-10-4 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



Scale = 1:18.0

Job Truss Truss Type Qty Summit/30 Woodside 146904302 2880703 V5 Valley

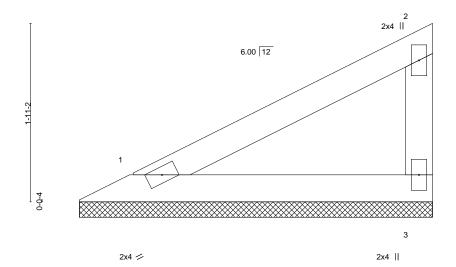
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:54:03 2021 Page 1 ID:clow4Ylgf7iox0?ly?5BCcz33zm-y8KjkJzP2TpFdtG0nYZei91f7gh?k2zxVw30rkz_Pcl

3-10-4

Scale = 1:12.4



BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 **TCLL** 0.22 n/a n/a **TCDL** 20.0 Lumber DOL 1.15 ВС 0.09 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P

GRIP

197/144

Weight: 10 lb FT = 20%

PLATES

MT20

Structural wood sheathing directly applied or 3-10-4 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

1=3-9-12, 3=3-9-12 (size) Max Horz 1=64(LC 9)

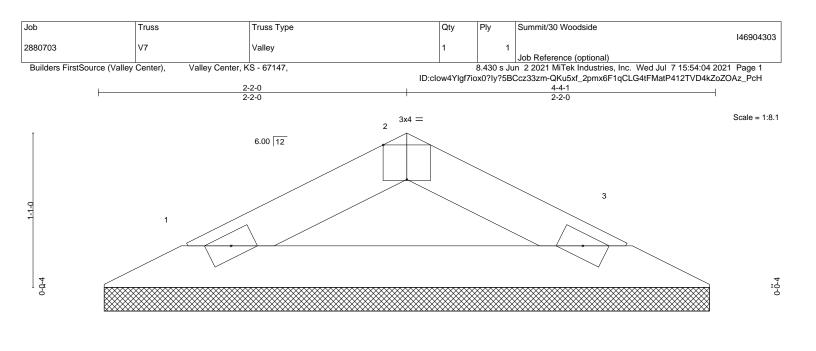
Max Uplift 1=-23(LC 12), 3=-40(LC 12) Max Grav 1=169(LC 1), 3=169(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







2x4 🖊 2x4 <

Plate Offsets (X,Y) [2:0-2-0,Edge]												
LOADIN	G (psf) 25.0	SPACING-	2-0-0	CSI.	0.06	DEFL.	in	(loc)	l/defl	L/d	PLATES MT20	GRIP 197/144
TCLL TCDL	20.0	Plate Grip DOL Lumber DOL	1.15 1.15	BC	0.06	Vert(LL) Vert(CT)	n/a n/a	-	n/a n/a	999 999	MI120	197/144
BCLL BCDL	0.0 10.0	Rep Stress Incr Code IRC2018/TP	YES 12014	WB Matri	0.00 x-P	Horz(CT)	0.00	3	n/a	n/a	Weight: 9 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 4-4-1 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=4-3-1, 3=4-3-1 Max Horz 1=-14(LC 17) Max Uplift 1=-23(LC 12), 3=-23(LC 13) Max Grav 1=169(LC 1), 3=169(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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/TPI 1.



4-4-1



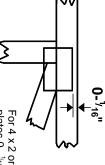


Symbols

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



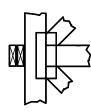
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

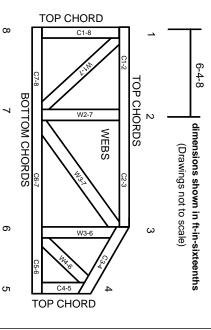
Industry Standards:

National Design Specification for Metal

Plate Connected Wood Truss Construction. Design Standard for Bracing. Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

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.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

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 Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- 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.

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- 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.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/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

9

- 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.
- 17. 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. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21.The design does not take into account any dynamic or other loads other than those expressly stated.