liTek

RE: Lot 21 OS Lot 21 OS

Site Information:

Customer: Project Name: Lot 21 OS Lot/Block: Address: City:

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

Model:

State:

Subdivision:

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7 - 16[Low Rise] Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 41 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	147536599	A1	8/20/2021	21	147536619	D2	8/20/2021
2	147536600	A2	8/20/2021	22	147536620	D3	8/20/2021
3	147536601	A3	8/20/2021	23	147536621	E1	8/20/2021
4	147536602	A4	8/20/2021	24	147536622	E2	8/20/2021
5	147536603	A5	8/20/2021	25	147536623	E3	8/20/2021
6	147536604	B1	8/20/2021	26	147536624	E4	8/20/2021
7	147536605	B2	8/20/2021	27	147536625	E5	8/20/2021
8	147536606	B3	8/20/2021	28	147536626	G1	8/20/2021
9	147536607	B4	8/20/2021	29	147536627	G2	8/20/2021
10	147536608	B5	8/20/2021	30	147536628	G3	8/20/2021
11	147536609	B6	8/20/2021	31	147536629	J1	8/20/2021
12	147536610	B7	8/20/2021	32	147536630	J2	8/20/2021
13	I47536611	B8	8/20/2021	33	l47536631	J3	8/20/2021
14	147536612	B9	8/20/2021	34	147536632	J4	8/20/2021
15	I47536613	B10	8/20/2021	35	147536633	J5	8/20/2021
16	147536614	B11	8/20/2021	36	147536634	LAY1	8/20/2021
17	147536615	B12	8/20/2021	37	147536635	LAY2	8/20/2021
18	147536616	C1	8/20/2021	38	147536636	V1	8/20/2021
19	147536617	C2	8/20/2021	39	147536637	V2	8/20/2021
20	l47536618	D1	8/20/2021	40	I47536638	V3	8/20/2021

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Kansas is April 30, 2022.

Kansas COA: E-943

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.



Garcia, Juan

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/31/2021 2:03:21

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



RE: Lot 21 OS - Lot 21 OS

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

Site Information:

	lock:	Project Name: Lo	ot 21 OS	Subdivision:
	County:			State:
No. 41	Seal# I47536639	Truss Name V4	Date 8/20/2021	



RE: Lot 21 OS Lot 21 OS

Site Information:

Customer: Project Name: Lot 21 OS Lot/Block: Address: City:

Model: Subdivision: State:

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

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7 - 16[Low Rise] Roof Load: 45.0 psf Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 41 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	147536599	A1	8/20/2021	21	l47536619	D2	8/20/2021
2	147536600	A2	8/20/2021	22	147536620	D3	8/20/2021
3	147536601	A3	8/20/2021	23	l47536621	E1	8/20/2021
4	147536602	A4	8/20/2021	24	147536622	E2	8/20/2021
5	147536603	A5	8/20/2021	25	147536623	E3	8/20/2021
6	147536604	B1	8/20/2021	26	147536624	E4	8/20/2021
7	147536605	B2	8/20/2021	27	147536625	E5	8/20/2021
8	147536606	B3	8/20/2021	28	147536626	G1	8/20/2021
9	147536607	B4	8/20/2021	29	147536627	G2	8/20/2021
10	147536608	B5	8/20/2021	30	147536628	G3	8/20/2021
11	147536609	B6	8/20/2021	31	147536629	J1	8/20/2021
12	147536610	B7	8/20/2021	32	147536630	J2	8/20/2021
13	147536611	B8	8/20/2021	33	l47536631	J3	8/20/2021
14	147536612	B9	8/20/2021	34	147536632	J4	8/20/2021
15	147536613	B10	8/20/2021	35	147536633	J5	8/20/2021
16	147536614	B11	8/20/2021	36	147536634	LAY1	8/20/2021
17	147536615	B12	8/20/2021	37	147536635	LAY2	8/20/2021
18	147536616	C1	8/20/2021	38	147536636	V1	8/20/2021
19	147536617	C2	8/20/2021	39	147536637	V2	8/20/2021
20	147536618	D1	8/20/2021	40	147536638	V3	8/20/2021

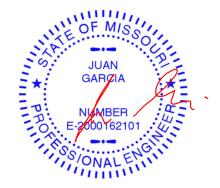
The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Missouri is December 31, 2022. 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.



Garcia, Juan

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



RE: Lot 21 OS - Lot 21 OS

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

Site Information:

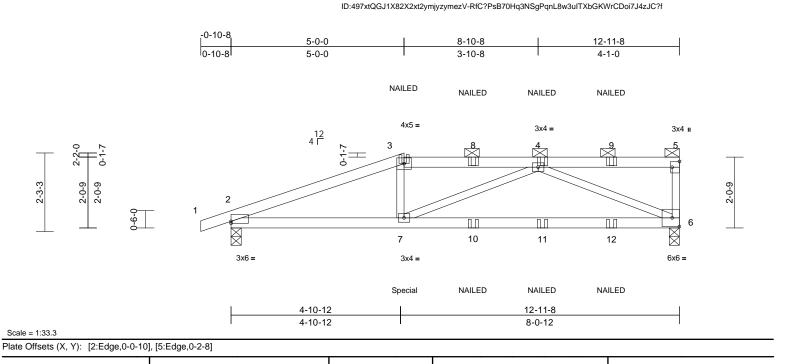
	lock:	Project Name: Lo	ot 21 OS	Subdivision:
	County:			State:
No. 41	Seal# I47536639	Truss Name V4	Date 8/20/2021	

Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	A1	Half Hip Girder	2	1	Job Reference (optional)	147536599

Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:16

Page: 1

Wheeler Lumber, Waverly, KS - 66871,



	, r). [2.Euge,0-0-10], [5.Euge,0-2-6]			-								
Loading TCLL (roof) TCDL BCLL BCDL LUMBER TOP CHORD	(psf) 25.0 10.0 0.0* 10.0 2x4 SPF No.2	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code		his truss is	CSI TC BC WB Matrix-S designed in acco			in -0.17 -0.35 0.03 0.05	(loc) 6-7 6-7 6 6-7	l/defl >900 >431 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 40 lb	GRIP 197/144 FT = 10%
BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this design Vasd=91n II; Exp C;	2x4 SPF 2100F 1.8E 2x3 SPF No.2 Structural wood she 3-5-15 oc purlins, e 2-0-0 oc purlins (3-1 Rigid ceiling directly bracing. (lb/size) 2=991/0-3 Max Horiz 2=79 (LC Max Uplift 2=-251 (L (lb) - Maximum Com Tension 1-2=0/6, 2-3=-2161/ 4-5=-91/9, 5-6=-165 2-7=-396/1967, 6-7= 3-7=0/424, 4-6=-167 ed roof live loads have h. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er	athing directly applie xcept end verticals, 0-15 max.): 3-5. applied or 10-0-0 or 3-8, 6=957/0-3-8 7) C 4), 6=-223 (LC 4) pression/Maximum 432, 3-4=-1950/433, /72 e-484/1603 r4/535, 4-7=0/498 been considered for (3-second gust) DL=6.0psf; h=25ft; Civelope) exterior zor	R 8) G or br and 9) "h ((10) H b d d r f 11) Ir of LOAE 1) I 1 1 1	802.10.2 ai raphical put the orienta bottom chorco VAILED" ind JAILED" ind Sources sponsibility the LOAD the truss a D CASE(S) Dead + Roc Plate Increas Juniform Los Vert: 1-3: Concentratic Vert: 3=-	nd referenced sta rlin representatio tation of the purlin d. dicates 3-10d (0.' ") toe-nails per N other connectior icient to support 59 lb up at 5-0-0 tion of such conn of others. CASE(S) sectior re noted as front Standard of Live (balanced ase=1.15	andard AN on does no along the IDS guidil on device(s concentra) on botto hection de h, loads a t (F) or ba): Lumber 6=-20 (), 4=-90 (ISI/TPI 1. to depict the top and/or or 3-12d nes.) shall be ated load(s) 2 m chord. Th vice(s) is the coplied to the ck (B). Increase=1. F), 8=-90 (F)	size 288 e face 15,			A BUILT	JU/ GAR NUM E-2000	CIA *
right expo 3) Provide ac 4) This truss chord live 5) * This trus on the bot 3-06-00 ta chord and 6) Provide m bearing pla	left and right exposed sed; Lumber DOL=1.6 dequate drainage to pr has been designed for load nonconcurrent wi is has been designed f tom chord in all areas il by 2-00-00 wide will any other members. lechanical connection (ate capable of withstar d 251 lb uplift at joint 2.	0 plate grip DOL=1.6 event water ponding r a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto (by others) of truss to holing 223 lb uplift at	60 i. ds. ipsf om								. THUNK	PROFESSION	952 952 NSAS NAL ENGINE



Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	A2	Half Hip	2	1	Job Reference (optional)	147536600

7-0-0

7-0-0

Wheeler Lumber, Waverly, KS - 66871,

-0-10-8

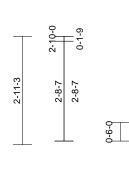
0-10-8

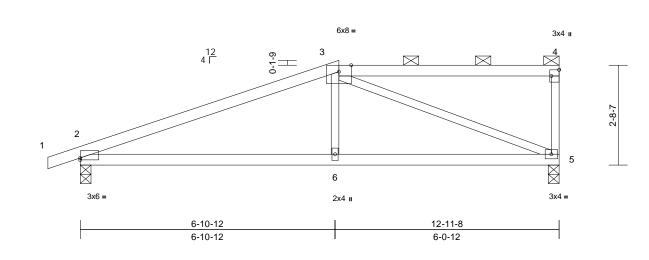
Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:18 $ID:o4kj_qNbgcPdkaiod3y3M4ymezL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$

12-11-8

5-11-8

Page: 1





Scale = 1:31.2

Plate Offsets ((X X)	[2.Edge 0-0-10]	[4·Edge 0-2-8]

Plate Offsets (X, Y): [2:Edge,0-0-10], [4:Edge,0-2-8]										
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-S	0.74 0.49 0.88	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.06 -0.14 0.02 0.05	(loc) 2-6 2-6 5 2-6	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 40 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2 2x3 SPF No.2 Structural wood shea 3-4-13 oc purlins, et 2-0-0 oc purlins (6-0	xcept end verticals, a -0 max.): 3-4.	d or LOAD CASE(S		e sections ndard AN n does no	R502.11.1 a SI/TPI 1. ot depict the s						111 <i>1</i> .
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	:								NE OF	MISS
	(lb/size) 2=646/0-3 Max Horiz 2=108 (LC Max Uplift 2=-147 (L									111	JU/	AN D
FORCES	(lb) - Maximum Com									Ξ×	GAR	
this desigr	3-6=0/304, 3-5=-862 ed roof live loads have	131/831 /162 been considered for								Philip		• 41.
 II; Exp C; I cantilever right exposi- Provide ac This truss chord live * This truss on the bot 3-06-00 ta chord and Provide m bearing plate 	nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.60 dequate drainage to pro- has been designed for load nonconcurrent wi s has been designed for tom chord in all areas ull by 2-00-00 wide will by 2-00-00 wide will any other members. echanical connection (ate capable of withstar I 147 Ib uplift at joint 2.	velope) exterior zon ; end vertical left and D plate grip DOL=1.6 event water ponding a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto by others) of truss to	e; 50 • ts. psf m							annun a	, the second sec	GARCIA NSEO 952

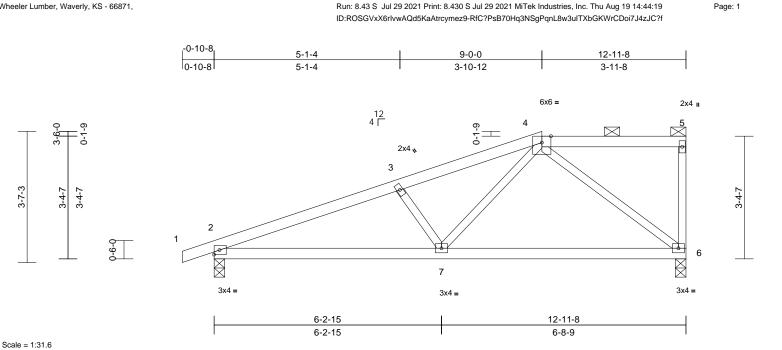
August 20,2021

V MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

A 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

Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	A3	Half Hip	2	1	Job Reference (optional)	I47536601

3-7-3



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.05	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.11	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.02	2-7	>999	240	Weight: 42 lb	FT = 10%

LUMBER		
TOP CHORD	2x4 SPF I	No.2
BOT CHORD	2x4 SPF I	No.2
WEBS	2x3 SPF I	No.2
BRACING		
TOP CHORD	Structural	wood sheathing directly applied or
	5-2-4 oc p	ourlins, except end verticals, and
	2-0-0 oc p	ourlins (6-0-0 max.): 4-5.
BOT CHORD	Rigid ceili	ng directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(lb/size)	2=646/0-3-8, 6=569/0-3-8
	Max Horiz	2=138 (LC 5)
	Max Uplift	2=-145 (LC 4), 6=-112 (LC 4)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
	1 2-0/6 2	2 - 1102/105 2 4 - 014/174

- TOP CHORD 1-2=0/6, 2-3=-1102/195, 3-4=-914/174, 4-5=-50/35, 5-6=-132/54 BOT CHORD 2-7=-194/977, 6-7=-104/487
- WEBS 3-7=-277/155, 4-7=-59/512, 4-6=-608/146 NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding. 3)
- This truss has been designed for a 10.0 psf bottom 4) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 5) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 112 lb uplift at joint 6 and 145 lb uplift at joint 2.

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.

- Graphical purlin representation does not depict the size 8) or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S) Standard

With PRUM JUAN GARCIA NUMBER E -2000162101 C 3 E ONAL min 16952 August 20,202 ANNUNITY . JOIN August 20,2021

111 MI

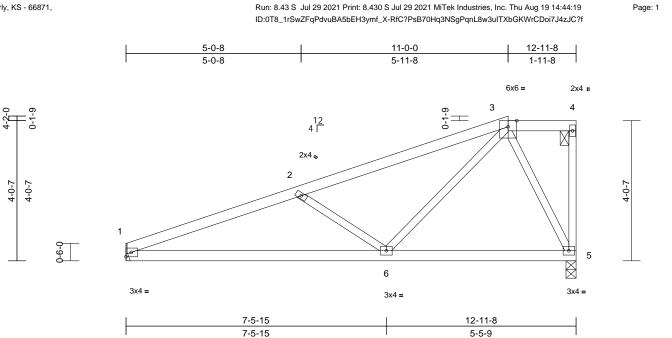
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Job	Truss	Truss Type G		Ply	Lot 21 OS		
Lot 21 OS	A4	Half Hip	2	1	Job Reference (optional)	147536602	

4-2-0

4-0-7



Scale = 1:33.2

00010 - 1.00.2												
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.09	1-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.19	1-6	>823	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.02	1-6	>999	240	Weight: 43 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood she 5-1-1 oc purlins, ex 2-0-0 oc purlins (6-0 Bioid coiling directly	Internationa R802.10.2 a 9) Graphical pi or the orient bottom chor nd LOAD CASE(S)		ode sections standard AN tion does no	R502.11.1 a ISI/TPI 1. ot depict the	and						
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 of	C									
	(Ib/size) 1=576/ Max Max Horiz 1=166 (LC Max Uplift 1=-97 (LC	,	3-8								AP	WISSOU .

- (lb) Maximum Compression/Maximum FORCES Tension TOP CHORD 1-2=-1138/242, 2-3=-755/128, 3-4=-56/42,
- 4-5=-51/12 BOT CHORD 1-6=-257/1035, 5-6=-72/257

WEBS 2-6=-471/235, 3-6=-63/579, 3-5=-582/145 NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior 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.
- This truss has been designed for a 10.0 psf bottom 4) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 5) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections. 6)
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 1 and 118 lb uplift at joint 5.





Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	A5	Monopitch	2	1	Job Reference (optional)	147536603

6-2-6

6-2-6

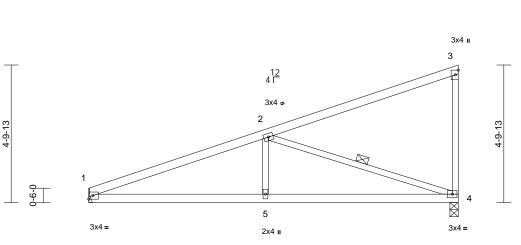
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:19 ID:0BcZS1FFa1hp4l5wg1nF4Tymf_o-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

12-11-8

6-9-2

Page: 1



6-2-6	12-11-8
6-2-6	6-9-2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.57	Vert(LL)	-0.06	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.13	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	1-5	>999	240	Weight: 41 lb	FT = 10%

L	U	M	в	Ε	R

Scale = 1:40.4

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	4-11-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
WEBS	1 Row at midpt 2-4
REACTIONS	(lb/size) 1=576/ Mechanical, 4=576/0-3-8
	Max Horiz 1=200 (LC 7)
	Max Uplift 1=-92 (LC 4), 4=-124 (LC 8)

FORCES	(Ib) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-1096/170, 2-3=-145/28, 3-4=-188/78
BOT CHORD	1-5=-198/987, 4-5=-198/987
WEBS	2-5=0/305, 2-4=-1024/252

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 1 and 124 lb uplift at joint 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.

LOAD CASE(S) Standard



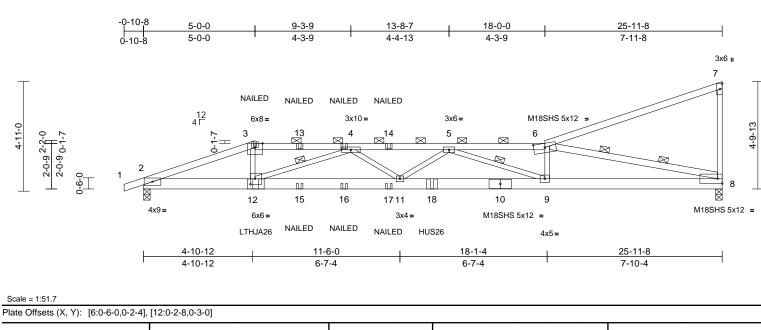


Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	B1	Roof Special Girder	2	1	Job Reference (optional)	147536604

4-11-0

Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:19 ID:GMPpSQDtQp5qWBU2A2hFfeymeyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





- 1410 0110010 ((,, , ,). [0.0 0 0,0 2 1],	[:=:0 = 0,0 0 0]											
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.98	Vert(LL)	-0.53	9-11	>584	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.88	Vert(CT)	-0.93	9-11	>330	240	M18SHS	197/144
BCLL	0.0*	Rep Stress Incr	NO		WB	0.90	Horz(CT)	0.13	8	n/a	n/a		
BCDL	10.0	Code		18/TPI2014	Matrix-S		Wind(LL)	0.45	9-11	>693	240	Weight: 118 lb	FT = 10%
												ů.	
LUMBER TOP CHORD BOT CHORD WEBS	2400F 2.0E 2x6 SP DSS 2x3 SPF No.2 *Exce	·	SPF	on the bottor 3-06-00 tall to chord and ar 6) Provide med	has been design m chord in all are by 2-00-00 wide hy other member chanical connection	eas where will fit betv rs. ion (by oth	a rectangle veen the bott ers) of truss t	om to					
	1.8E			bearing plate capable of withstanding 352 lb uplift at joint 8 and 483 lb uplift at joint 8 and 483 lb uplift at joint 2.									
BRACING			-				ith the 2019						
TOP CHORD	Structural wood she 3-0-1 oc purlins, ex 2-0-0 oc purlins (2-0	cept end verticals, a	nd	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.								MISS	
BOT CHORD	Rigid ceiling directly bracing.	applied or 6-6-3 oc	 Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or 										
WEBS	1 Row at midpt	4-12, 5-9		bottom chore				. h.			-	S: JUA	N :
WEBS	2 Rows at 1/3 pts	6-8	Ś		n Strong-Tie LTH p) or equivalent						24	GAR	
REACTIONS	(lb/size) 2=2088/0	-3-8, 8=1664/0-3-8											
	Max Horiz 2=200 (LC	C 7)		connect truss(es) to front face of bottom chord. 10) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d							-		
	Max Uplift 2=-483 (L	C 4), 8=-352 (LC 8)		Truss, Single Ply Girder) or equivalent at 12-11-4 from							==	NUME	BER :
FORCES	(lb) - Maximum Com Tension	pression/Maximum		the left end to connect truss(es) to front face of bottom chord.							=	E-20001	62101
TOP CHORD		6/1145. 3-4=-4910/1	092.	 chord. 11) Fill all nail holes where hanger is in contact with lumber. 							1	· · · · ·	- Charles
	4-5=-8144/1699, 5-6 6-7=-163/50, 7-8=-2	6=-5970/1209,	,	12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d								SONA	LENIN
BOT CHORD	2-12=-1125/4991, 1			(0.148"x3.25") toe-nails per NDS guidlines. 13) In the LOAD CASE(S) section, loads applied to the face									UD.
201 0110112	9-11=-1676/7741, 8-	,			are noted as fron			lace					
WEBS	3-12=-194/1395, 6-9			LOAD CASE(S)			ск (В).						
	6-8=-6132/1297, 4-1 4-12=-2850/686, 5-1 5-9=-1897/481	1=0/721,		• • • •	of Live (balanced ase=1.15	d): Lumber	Increase=1.	15,				IN JOUCE	NSED
NOTES				Vert: 1-3	=-70, 3-6=-70, 6	-7=-70, 2-	8=-20					N (* 1997)	A 2
Vasd=91m II; Exp C; I cantilever	 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 				Vert: 1-3=-70, 3-6=-70, 6-7=-70, 2-8=-20 Concentrated Loads (lb) Vert: 3=-90 (F), 12=-288 (F), 4=-90 (F), 13=-90 (F), 14=-90 (F), 15=-28 (F), 16=-28 (F), 17=-28 (F), 18=-635 (F)							952	
 Provide ac All plates a This truss 	dequate drainage to pr are MT20 plates unles has been designed for load nonconcurrent wi	event water ponding s otherwise indicate r a 10.0 psf bottom). d.									SION	
												Auguo	00 2021

- All plates are MT20 plates unless otherwise indicated
- 3) 4) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

August 20,2021

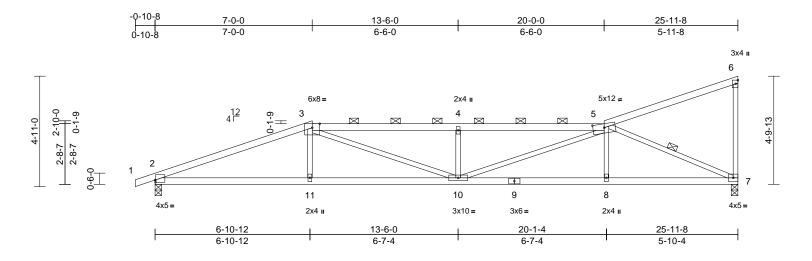
Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	B2	Roof Special	2	1	Job Reference (optional)	147536605

Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:20 ID:wCBC69mjbxuJ1F?usiW1WKymexY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

August 20,2021

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



Scale = 1:51.3

Plate Offsets (X, Y): [2:0-0-4,0-1-2], [5:0-6-0,0-2-1]

	(X, T). [2.0-0-4,0-T-2],	, [5.0-0-0,0-2-1]										
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI201	CSI TC BC WB 4 Matrix-S	0.65 0.82 0.93	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.22 -0.40 0.10 0.18	(loc) 8-10 8-10 7 8-10	l/defl >999 >776 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 86 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x3 SPF No.2 Structural wood she 3-6-3 oc purlins, ex 2-0-0 oc purlins (3-1 Rigid ceiling directly bracing. 1 Row at midpt (lb/size) 2=1230/0 Max Horiz 2=202 (LC	eathing directly applie cept end verticals, a 1-0 max.): 3-5. r applied or 8-6-10 or 5-7 -3-8, 7=1155/0-3-8 C 7)	PF bearing joint 7 6) This tru Interna R802.1 ad or 7) Graphi nd or the o bottom	e echanical connecti g plate capable of with and 253 lb uplift at join uss is designed in acc tional Residential Coo 0.2 and referenced st cal purlin representati prientation of the purlin chord. SE(S) Standard	Istanding 2 nt 2. ordance wi de sections andard AN on does no	24 lb uplift at ith the 2018 s R502.11.1 a ISI/TPI 1. ot depict the s	nd				JUA GAR	
FORCES TOP CHORD BOT CHORD WEBS	8-10=-380/2185, 7-8	npression/Maximum 464, 3-4=-3195/605 =-132/44, 6-7=-185/7 -11=-470/2440, 3=-376/2191 140/806, 4-10=-548/;	212,							Philip	NUM E-20001	62101
Vasd=91n II; Exp C; cantilever right expo 2) Provide ar 3) This truss chord live 4) * This trus on the bot 3-06-00 ta	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 dequate drainage to pr has been designed fo load nonconcurrent wi ss has been designed f tom chord in all areas all by 2-00-00 wide will l any other members.	a (3-second gust) DL=6.0psf; h=25ft; (nvelope) exterior zor ; end vertical left an 0 plate grip DOL=1.0 revent water ponding r a 10.0 psf bottom ith any other live load for a live load of 20.0 where a rectangle	Cat. le; d 50 j. ds. lpsf							. AUTUAL	PROXESSION	SAS ON IN

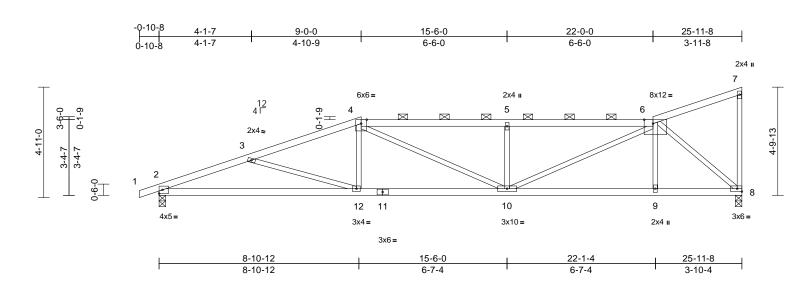
Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	B3	Roof Special	2	1	Job Reference (optional)	147536606

Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:20 ID:le4ux029A0n2IoFJi1QQyBymexB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



August 20,2021

16023 Swingley Ridge Rd Chesterfield, MO 63017



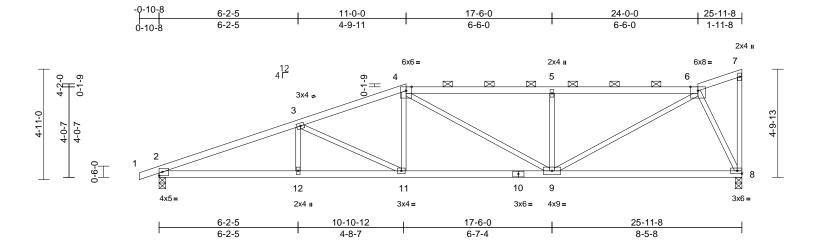
Scale = 1:51.3

Plate Offsets (X, Y): [6:0-4-12,Edge]

	(, .). [1											
Loading TCLL (roof) TCDL	(psf) 25.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15		CSI TC BC	0.74 0.84	DEFL Vert(LL) Vert(CT)	in -0.18 -0.41	(loc) 2-12 2-12	l/defl >999 >759	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL	0.0*	Rep Stress Incr	YES		WB	0.97	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/	/TPI2014	Matrix-S		Wind(LL)	0.14	10-12	>999	240	Weight: 91 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD	2x4 SPF No.2 2x3 SPF No.2 Structural wood she 3-3-5 oc purlins, ex 2-0-0 oc purlins (2-1 Rigid ceiling directly bracing. (lb/size) 2=1230/0 Max Horiz 2=202 (LC Max Uplift 2=-253 (L (lb) - Maximum Corr Tension 1-2=0/6, 2-3=-2657/ 4-5=-2431/484, 5-6 7-8=-111/44 2-12=-567/2440, 10	cept end verticals, ar 0-11 max.): 4-6. applied or 7-8-2 oc -3-8, 8=1155/0-3-8 C 7) C 4), 8=-224 (LC 8) pression/Maximum 551, 3-4=-2373/425, -2431/484, 6-7=-102 -12=-396/2200,	6) d or nd 7) LO	bearing plate joint 8 and 25 This truss is o International R802.10.2 ar Graphical pu		tanding 2 2. rdance wi sections indard AN n does no	24 Ib uplift a ith the 2018 R502.11.1 a ISI/TPI 1. ot depict the	t and			111 * Phil	JU/ GAR NUMI O. E-20001	CIA *
WEBS	9-10=-202/1255, 8-9 3-12=-242/180, 4-12 5-10=-558/220, 6-10 6-8=-1617/313	2=0/344, 4-10=-61/25										SS/ON	AL ENGIN
NOTES													111 <i>1</i> .
Vasd=91n II; Exp C; cantilever right expo 2) Provide ar 3) This truss chord live 4) * This truss on the bot 3-06-00 ta	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 dequate drainage to pr has been designed fo load nonconcurrent wis shas been designed f ttom chord in all areas all by 2-00-00 wide will d any other members.	DL=6.0psf; h=25ft; C velope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 event water ponding r a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle	e; d 60 ds. psf								. THUNK	PROFESSION	ISAS ON INTI

Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	B4	Roof Special	2	1	Job Reference (optional)	147536607

Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:20 ID:tgPfp5dd5SiNR0LLzPmSM5ymewS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:51.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.16	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.35	8-9	>891	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.11	11-12	>999	240	Weight: 91 lb	FT = 10%
LUMBER				is designed in acc								
TOP CHORD	2x4 SPF No.2			nal Residential Coc			and					
BOT CHORD				2 and referenced st								
WEBS	2x3 SPF No.2			purlin representation of the purlir			size					
BRACING	o		hattam ak		r along the	e top anu/or						
TOP CHORD		athing directly applie cept end verticals, a										
	2-0-0 oc purlins, ex 2-0-0 oc purlins (3-6			o) otaridard								
BOT CHORD			0									
	bracing.											1111
REACTIONS	(lb/size) 2=1230/0	-3-8, 8=1155/0-3-8									NEOF	MISS
	Max Horiz 2=202 (LC									1	1	0/1
	Max Uplift 2=-253 (L									2	A	·
FORCES	(lb) - Maximum Corr Tension	pression/Maximum								Ξ	JU/ GAR	
TOP CHORD	,											× =
	4-5=-1853/381, 5-6=	-1853/381, 6-7=-91/	/42,							5-1	÷	:m==
BOT CHORD	7-8=-13/13 2-12=-490/2448, 11	12- 400/2449									NUM	• []]
BOT CHORD	9-11=-352/1934, 8-9									-1	E-2000	162101
WEBS		561/153, 4-11=-9/35	5,							1	~~· -·	
		3/222, 6-9=-274/153	31,								1.SSICH	ENGIN
	6-8=-1189/293										I. ON	ALLIN
NOTES												102
	CE 7-16; Vult=115mph		. .									IIII.
	nph; TCDL=6.0psf; BC Enclosed; MWFRS (er										NI'NN	GARO
	left and right exposed										1. 10	····· A **
	sed; Lumber DOL=1.6										CE	NSED
	dequate drainage to pr).								1 / Ť.	- ~ ~ S
	has been designed fo									-	1	
	load nonconcurrent wi ss has been designed f										PR 16	952 : 🗄
	ttom chord in all areas		ipsr							-	DI	
	all by 2-00-00 wide will		m							-	B	4.145
	any other members.										AN	SAS
	nechanical connection										1,00	ENGI
	late capable of withstar										IN ON	VAL
joint 8 and	d 253 lb uplift at joint 2.											
											Augus	st 20,2021

- ed; Lumber DOL=1.60 plate grip DOL 1.60 rignt 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint 8 and 253 lb uplift at joint 2.

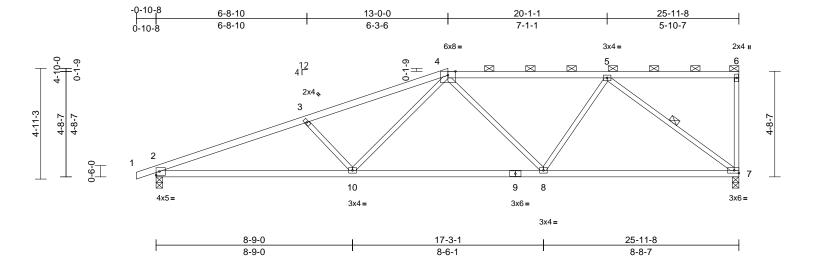
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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



Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	B5	Half Hip	2	1	Job Reference (optional)	147536608

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Page: 1



Scale = 1:51.3

Loading	(psf)	Spacing	2-0-0	c	SI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	Т	C	0.69	Vert(LL)	-0.17	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	В	SC	0.88	Vert(CT)	-0.38	2-10	>815	240		
BCLL	0.0*	Rep Stress Incr	YES	v	VB	0.78	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TF	PI2014 N	Aatrix-S		Wind(LL)	0.11	2-10	>999	240	Weight: 86 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF No.2 2x3 SPF No.2 Structural wood she 2-6-11 oc purlins, e 2-0-0 oc purlins (3-8 Rigid ceiling directly bracing. 1 Row at midpt	xcept end verticals, -8 max.): 4-6.	be jo 7) Ti In and 8) G or bo	earing plate ca int 7 and 253 his truss is dea ternational Re 802.10.2 and raphical purlin	nical connectic apable of withs Ib uplift at joint signed in acco esidential Code referenced sta representatio in of the purlin Standard	standing 2 t 2. ordance wi e sections andard AN on does no	22 lb uplift a th the 2018 R502.11.1 a ISI/TPI 1. ot depict the	it and				INTE OF	MISSO
NEACTION C	Max Horiz 2=197 (LC Max Uplift 2=-253 (L	27)									11	JU/	AN D
FORCES	(lb) - Maximum Com Tension	pression/Maximum									Ξ×	GAR	
TOP CHORD	1-2=0/6, 2-3=-2627/ 4-5=-1483/305, 5-6=	, ,									P	NUM	BER a
BOT CHORD	2-10=-503/2415, 8-1 7-8=-263/1228	0=-301/1678,										E-2000	• 41
WEBS	3-10=-406/235, 4-10 5-8=0/503, 5-7=-152		142,								1	Ess:	ENGIN
NOTES												I, ON	ALLIN
1) Unbalance	ed roof live loads have	been considered for	r										III.
Vasd=91n II; Exp C; cantilever right expo: 3) Provide ac 4) This truss chord live 5) * This trus on the bot 3-06-00 ta	n. CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 dequate drainage to pr has been designed for load nonconcurrent wi ss has been designed fi tom chord in all areas i all by 2-00-00 wide will any other members.	DL=6.0psf; h=25ft; C velope) exterior zor ; end vertical left an 0 plate grip DOL=1.6 event water ponding a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle	ne; d 50 i. ds. ipsf								annua.	PROCESSION	GARCIA NSEO 952

- Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding. 3)
- 4) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 5) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

August 20

Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	B6	Half Hip	2	1	Job Reference (optional)	147536609

Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:21 ID:ivteLOW2gB1tJO?aly5oMiymevI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

-0-10-8 0-10-8 6-8-10 15-0-0 20-7-10 25-11-8 6-8-10 8-3-6 5-7-10 5-3-14 6x8 = 3x4 = 2x4 II 6 ⊠ 4 5 ⊠ 0-1-9 5-6-0 ဂု \bowtie \bowtie \bowtie \bowtie -_12 4 Г R 2x4 👟 3 5-7-3 5-4-7 5-4-7 5-4-7 0-9-0 7 Т Ø 10 9 8 11 12 4x5= 3x6 =3x6= 4x9= 3x4= 10-0-0 17-0-4 25-11-8 10-0-0 7-0-3

Scale = 1:51.3

Plate Offsets (X, Y): [2:0-0-4,0-1-2]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	(psi) 25.0	Plate Grip DOL	1.15		TC	0.67	Vert(LL)	-0.25	(100) 2-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.65	Vert(CT)	-0.51	2-10	>603	240	101120	13//144
BCLL	0.0*	Rep Stress Incr	YES		WB	0.69	. ,	0.06	2.0	n/a	n/a		
BCDL	10.0	Code	IRC2018/	/TPI2014	Matrix-S		Wind(LL)	0.09	2-10	>999	240	Weight: 89 lb	FT = 10%
			-				()		-		-	- 3	
	No.2 2x4 SPF 2100F 1.81 2x3 SPF No.2 Structural wood she 3-8-13 oc purlins, e 2-0-0 oc purlins (4-8 Rigid ceiling directly bracing. 1 Row at midpt	athing directly applie xcept end verticals, a -15 max.): 4-6. applied or 10-0-0 oc 5-7 -3-8, 7=1155/0-3-8 C 5) C 4), 7=-225 (LC 4) -C 2), 7=1213 (LC 2)	PF 6) d or 7) : 8) LO	on the bottor 3-06-00 tall b chord and an Provide mec bearing plate joint 7 and 22 This truss is International R802.10.2 an Graphical put		as where will fit betw s, with BC on (by oth standing 2 t 2. ordance w e sections andard AN on does no	a rectangle veen the bot DL = 10.0ps ers) of truss 25 lb uplift a R502.11.1 ISI/TPI 1. ot depict the	tom sf. to tt			····· * PD	GAR NUM	BER
TOP CHORD	4-5=-1402/297, 5-6=	=-78/54, 6-7=-150/66									1	ALSS	ENGINI
	7-8=-216/984	,										IIIII	ALLIN
WEBS	3-10=-601/316, 4-10 4-8=-353/149, 5-8=-)=-103/815, 52/717, 5-7=-1348/2	98										<u>ши.</u>
 this design Wind: ASC Vasd=91rr II; Exp C; I cantilever right exposizion Provide act This truss 	ed roof live loads have CE 7-16; Vult=115mpf nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DCL=1.6 dequate drainage to pr has been designed fo load nonconcurrent w	(3-second gust) DL=6.0psf; h=25ft; C tvelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 event water ponding r a 10.0 psf bottom	Cat. e; d 50								. annua.	PROX STON	GARCIA NSEO 952 VSAS G VAL ENGINE

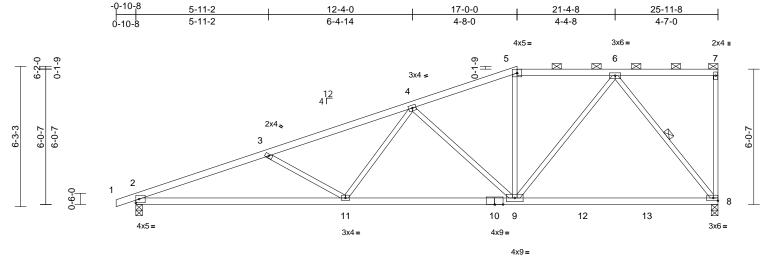
> MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

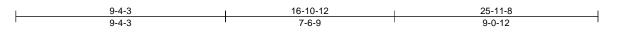
8-11-4

Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	B7	Half Hip	2	1	Job Reference (optional)	l47536610

Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:21 ID:MU8bQJsEr5hmlrj8VY7b1pymeur-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:51.4

BCDL 10.0 Code IRC2018TP12/214 Matrix-S Windl 0.00 2-11 >999 240 Weight: 94 lb FT = 10% LUMBER TOP CHORD 2x4 SPF No.2 BACIMO 2x4 SPF No.2 FNo.2 FNo.2 FNo.2 FNo.2 BRACING TOP CHORD Structural wood sheathing directly applied 3-0-2 oc puritins, except and verticals, and 2x0-0 oc puritins (Fo-14 max): 5-7.7 FNo trait Stable Stigger di naccordance with the 2018 International Residential Code sections R302.11.1 and R302.10.2 and referenced standard ANSI/TP1 1. 6 BOT CHORD Rigid celling directly applied or 10-0-0 oc bracing. FRow at micpt 6-8 FRocess (UC 1) REACTIONS (Instrem) 6-8 CC 2, and 223 (UC 2) For the orientation of the pulm along the top and/or bottom chord. LOAD CASE(S) Standard Standard VEES 110.0 Max Horiz 2=257 (UC 7) Max Vary 2=1256 (UC 2), 8=1223 (UC 2) F=-128/G0 Standard DOT CHORD 2-11548/2470, 9-11331/tB23, 6-9=-178/768 Standard BOT CHORDS 2-11648/2470, 9-11331/tB23, 6-9=-178/768 (IC 4), 8=-1219/275 Standard VIESS 3-11643/244, 4-11-25058, 4-9=-777/236, 6-9=0/216, 6-9=-94424, 6-8=-1219/275 Standard Vistor Sha been designed for a 10.0 path of tho tho path tight exposed : and vertical left and right exposed : lumber Obcl-160 opt ging DDU-160 Standard 9 This truss has been design	Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.51 0.61 0.76	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.26 -0.45 0.06	(loc) 8-9 8-9 8	l/defl >999 >683 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BOT CHORD 244 BP 2100F 1.8E SAS BPF No.2 BRACING TOP CHORD Structural wood sheathing directly applied or 3-0-2 or purine, except and verticals, and 3-0-2 are purine, except and verticals, and BOT CHORD Rigid ceiling directly applied or 10-0-0 or briteding. WEBS 1 Row at midpt 6-8 REACTONS (Ib/size) 2-1230/0-3-8, B-1155/0-3-8 Max Horiz 2-257 (LC 7) Max Upilit 2-2-248 (LC 4), B-227 (LC 4) Max Grav 2-2156 (LC 2), 8-1223 (LC 2) FORCES (Ib) - Maximum Compression/Maximum TOP CHORD 1-2-06, 2-33-2671/523, 3-43-235/395, 4-5-13877266, 5-6-12737290, 6-7-87761, 7-8-128060 BOT CHORD 2-11-5641242, 4-11-25/588, 4-9=-7777236, 5-9-0216, 6-9-94/824, 4-11-25/588, 4-9=-7777236, 5-9-0216, 6-9-94/824, 6-81219/275 NOTES 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; YUII=115mph (3-second guat) Yead-B-Imp, TCDL=6.0peid, BCDL=6.0px h=251; CL, 1. Exp C; Enclosed; INWFRS (envelope) exterior zone; cantilever 16 and right exposed; - end vertice proding, 4) This trues has been designed for a 10.0 pef bottom chord ind and nothord in all areas where a retangle 3-0-6-0 uall by 2-000 wide will file between the bottom chord and any other members, with BCDL = 10.0 psf.	LUMBER	· · · · · · · · · · · · · · · · · · ·	Code	6) Provide m	echanical connecti		ers) of truss	to	2-11	>999	240	Weight: 94 lb	FT = 10%
 LOAD CIAND Neg Applied of NOVOCC LOAD CASE(S) Standard WEBS 1 Row at midpt 6-8 REACTIONS (Ibrize) 2-2130(0-38, 8-1155(0-3-8 Max Horiz 2-257 (LC 7) Max Uplift 2-248 (LC 4), 8-227 (LC 4) Max Grav 2-1256 (LC 2), 8-1223 (LC 2) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2-006, 2-3-2671/823, 3-4-2333/395, 4-5-1387/286, 5-6-2173/290, 6-7-87/61, 7-8-128/00 BOT CHORD 2-11-548/2470, 9-11-331/1823, 8-9=-173/764 WEBS 3-11-454/244, 4-11=-25/588, 4-9=-777/236, 5-9=0/216, 6-9=-94/824, 6-8=-1219/275 NOTES 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vaste-31 mph; TOUL=6.0pt; h=25f; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=16.0pt afb tonm chord and any other remeents, with BCDL=0.0ps f. 3) Provide adeguate drainage to prevent water ponding. 4) This truss has been designed for a live load of 20.0ps f on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other remeens, with BCDL=0.0ps f. 	BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF 2100F 1.8E 2x3 SPF No.2 Structural wood she 3-0-2 oc purlins, ex 2-0-0 oc purlins (5-0	athing directly applie cept end verticals, ar I-14 max.): 5-7.	joint 8 and 7) This truss Internation 8) Graphical or the orie	4 248 b uplift at joir is designed in accornal Residential Cod 2 and referenced star purlin representation intation of the purlir	t 2. ordance w e sections andard AN on does no	ith the 2018 R502.11.1 a ISI/TPI 1. ot depict the s	and					
REACTIONS (Ib/size) 2=1230/0-3-8, 8=1155/0-3-8 Max Horiz 2=257 (IC 7) Max Dipit 2=248 (IC 4), 8=227 (IC 4) Max Grav 2=1256 (IC 2), 8=1223 (IC 2) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1=2=0/6, 2-3=-2671/523, 3-4=2335/395, 4-5=-1387/268, 5-6=-1273/290, 6-7=-87/61, 7-8=-128/60 BOT CHORD 2-11=-548/2470, 9-11=-331/1823, 8-9=-1797/64 WEBS 3-11=-454/244, 4-11=-25/588, 4-9=-777/236, 5-9=0/216, 6-9=-94/824, 6-8=-1219/275 NOTES 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TODL=6.0, 0.95f; HoCID=6.005f; H=25ft; Cat. It; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 opsf; H=25ft; Cat. It; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; lumber DOL=1.60 opsf; H=25ft; Cat. It; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; lumber DOL=1.60 opsf; H=25ft; Cat. It; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; lumber DOL=1.00 psf; h=25ft; Cat. It; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; lumber DOL=1.00 psf; h=25ft; Cat. It; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.00 psf; h=25ft; Cat. It is use has been designed for a 10.0 psf bottom chord and any other members, with BOL= 10.0 psf.		bracing.										NU'OF	MIS
FORCES (b) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/6, 2-3=-2671/523, 3-4=-2335/395, 4-5=-1387/286, 5-6=-1273/290, 6-7=-87/61, 7-8=-128/60 BOT CHORD 2-11=-548/2470, 9-11=-331/1823, 8-9==-179/764 WEBS 3-11=-454/244, 4-11=-25/588, 4-9=-777/236, 5-9=0/216, 6-9=-94/824, 6-8=-1219/275 NOTES 1) 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0pst; Be2DL=6.0pst; h=25ft; Cat. II; Exp C; Enclosed; UNWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) 16952 3) Provide adequate driange to prevent water ponding. 4) This truss has been designed for a 10.0 psf bottom chord and noconcurrent with any other live loads. 5) This truss has been designed for a 10.0 psf bottom chord and any other members, with BCDL = 10.0psf.		(lb/size) 2=1230/0 Max Horiz 2=257 (LC Max Uplift 2=-248 (L	-3-8, 8=1155/0-3-8 C 7) C 4), 8=-227 (LC 4)								1111		
TOP CHORD 1-2=0/6, 2-3=-2671/523, 3-4=-2335/395, 4-5=-1387/286, 5-6=-1273/290, 6-7=-87/61, 7-8=-128/60 BOT CHORD 2-11=-548/2470, 9-11=-331/1823, 8-9=-179/764 WEBS 3-11=-548/2470, 9-11=-331/1823, 8-9=-179/764 WEBS 3-11=-548/2470, 4-11=-25/588, 4-9=-777/236, 5-9=0/216, 6-9=-94/824, 6-8=-1219/275 NOTES 1 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; cumber DOL=1.60 Data 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 onconcurrent with any other live loads. 5) * This truss has been designed for a 10.0 psf.	FORCES	(lb) - Maximum Com									Ξ*	GAP	*=
 BOT CHORD 2-11=-548/2470, 9-11=-331/1823, 8-9=-179/764 WEBS 3-11=-454/244, 4-11=-25/588, 4-9=-777/236, 5-9=0/216, 6-9=-94/824, 6-8=-1219/275 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 	TOP CHORD	1-2=0/6, 2-3=-2671/ 4-5=-1387/286, 5-6=	, , ,	61,							Phi		• 41.
 5-9=0/216, 6-9=-94/824, 6-8=-1219/275 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed ; end vertical left and right exposed ; end vertical left and right exposed ; or prevent water ponding. 3) Provide adequate drainage to prevent water ponding. 4) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 	BOT CHORD	2-11=-548/2470, 9-1	1=-331/1823,								1	ASS.	NGITI
chord live load nonconcurrent with any other live loads. 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.	WEBS	,	,	236,								NON.	ALFIN
	 Unbalance this design Wind: ASG Vasd=91n II; Exp C; cantilever right expo Provide ad This truss chord live * This truss on the bot 3-06-00 ta 	n. CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 dequate drainage to pr has been designed for load nonconcurrent wi ss has been designed f ttom chord in all areas all by 2-00-00 wide will	(3-second gust) DL=6.0psf; h=25ft; C ivelope) exterior zon ; end vertical left anc; 0 plate grip DOL=1.6 event water ponding r a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto	cat. e; d o0 ls. posf m							"THINK"	OK STON	952

- II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding. 3)
- This truss has been designed for a 10.0 psf bottom 4)
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 5)
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

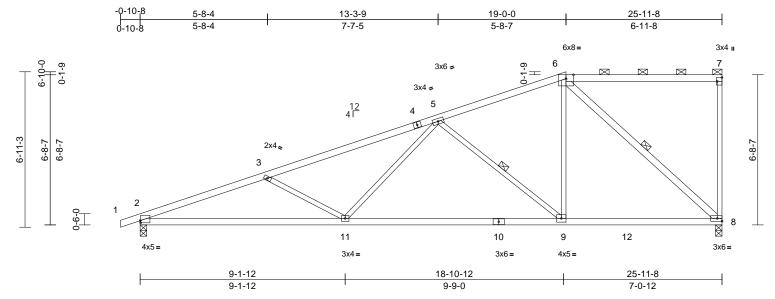
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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



Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	B8	Half Hip	2	1	Job Reference (optional)	147536611

Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:21 ID:nQSsuPwR78mGrMS3f0iEbNymetT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:51.4

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

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.77	Vert(LL)	-0.18	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.84	Vert(CT)	-0.37	9-11	>844	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.57	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	IRC2018	/TPI2014	Matrix-S		Wind(LL)	0.10	11	>999	240	Weight: 96 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	 2x4 SPF 2100F 1.8l No.2 2x3 SPF No.2 *Exce Structural wood she 2-2-0 oc purlins, ex 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt 	ept* 8-6:2x4 SPF No eathing directly appli- cept end verticals, a 0-0 max.): 6-7. v applied or 10-0-0 o 6-8, 5-9 1-3-8, 8=1155/0-3-8 C 7) .C 4), 8=-231 (LC 4)	SPF .2 6) ed or 7) c 8) LO	on the bottor 3-06-00 tall to chord and an Provide mec bearing plate joint 8 and 20 This truss is International R802.10.2 an Graphical put		eas where will fit betw rs, with BC ion (by oth astanding 2 ort 2. ordance w de sections candard AN on does no	a rectangle veen the bott CDL = 10.0ps ers) of truss 231 lb uplift a ith the 2018 \$ R502.11.1 VSI/TPI 1. ot depict the	tom sf. to at			******	JU/ GAR	
FORCES	(lb) - Maximum Con Tension	npression/Maximum										NUM	• 41.
TOP CHORD	5-6=-1125/243, 6-7=	=-91/74, 7-8=-230/10									1	KSSION	ALENGINI
WEBS	6-9=-80/912, 6-8=-1 5-11=-13/740, 3-11=	,	284,										1002
NOTES	<i>,</i> -												GAD
 this desig Wind: AS Vasd=91 II; Exp C; cantilever right expo Provide a This trust 	ced roof live loads have gn. SCE 7-16; Vult=115mph mph; TCDL=6.0psf; BC ; Enclosed; MWFRS (ei r left and right exposed osed; Lumber DOL=1.6 adequate drainage to pi s has been designed fo e load nonconcurrent w	n (3-second gust) iDL=6.0psf; h=25ft; invelope) exterior zor ; end vertical left an i0 plate grip DOL=1. revent water ponding r a 10.0 psf bottom	Cat. ne; id 60 g.								. offities.	PROFILESS/ON	952 NSE0 952 NAL ENOTION 14 LENOTION 14 LE





Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	В9	Half Hip	2	1	Job Reference (optional)	147536612

Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:21 Page: 1 ID:d8pWtQxtRDHYPWHQWmI18FymePm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-10-8 0-10-8 8-8-11 17-5-10 21-0-0 25-11-8 8-8-11 8-8-15 3-6-6 4-11-8 6x6= 3x4 II 6 7 0-1-9 -0 -1 2x4 II \boxtimes ģ ģ M 5 3x10 = 12 4 Г 4 3x4 🚅 7-7-3 7-4-7 7-4-7 7-4-7 3 0-9-0-9-8 X 11 10 9 12 13 4x5= 3x6= 2x4 II 4x9= 6x8=

	8-8-11	17-5-10	25-11-8	
	8-8-11	8-8-15	8-5-14	
Scale = 1:55				

Plate	Offsets	(X	Y)·	[7:Edge,0-2-8]
i iaic	0113013	(<i>n</i> ,	•).	[1.2090,0 2 0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.22	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.39	2-11	>793	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.12	2-11	>999	240	Weight: 97 lb	FT = 10%
LUMBER			5) * This tru	iss has been desigr	ned for a liv	e load of 20 (Opsf					
TOP CHORD	1.8E		00F on the boost on the boost of the boost o	ottom chord in all an tall by 2-00-00 wide d any other membe	eas where will fit betv	a rectangle	om					
WEBS	2x3 SPF No.2 *Exce		2 6) Provide	mechanical connect	tion (by oth	ers) of truss t	to					
BRACING	0	- this and in a star and in a second	ioint 9 or	nd 241 lb uplift at joi			•					
TOP CHORD		xcept end verticals,	and 7) This trus Internatio	s is designed in acconnal Residential Co	cordance w de sections	s R502.11.1 a	and					990
BOT CHORD		applied or 10-0-0 or	8) Graphica	.2 and referenced s al purlin representat	ion does no	ot depict the s	size			2	ILE OF	MISSO
WEBS	1 Row at midpt	6-8, 3-9		ientation of the purli	in along the	e top and/or				5	X	
REACTIONS	(lb/size) 2=1230/0	-3-8, 8=1155/0-3-8	bottom o							-	∽: JU/	AN
	Max Horiz 2=316 (L	C 5)	LOAD CASE	(S) Standard						24	GAR	CIA :
	Max Uplift 2=-241 (L	C 4), 8=-234 (LC 4)								- 1		
	Max Grav 2=1259 (LC 2), 8=1234 (LC 2))							5-		imE
FORCES	(lb) - Maximum Con Tension	npression/Maximum								-	NUM	• 41.
TOP CHORD	,	/433, 3-5=-1381/254, =-103/79, 7-8=-164/8								1		- GINI
BOT CHORD	2-11=-469/2423, 9-7 8-9=-146/659	11=-469/2423,									I,SON	ALENIN
WEBS	6-9=-254/1282, 6-8= 5-9=-446/228, 3-11=	=-1154/243, =0/371, 3-9=-1269/32	20									100
NOTES	,	,										GAD !!!
	ed roof live loads have	been considered for	r								NAU	SARCIA
this desig 2) Wind: AS	n. CE 7-16; Vult=115mph	(3-second gust)									I LICE	NSED
Vasd=91r	mph; TCDL=6.0psf; BC Enclosed; MWFRS (er	DL=6.0psf; h=25ft; 0										$\langle \cdot \rangle =$
cantilever	left and right exposed	; end vertical left and	d							Ξ	The Tee	952
3) Provide a	osed; Lumber DOL=1.6 dequate drainage to pr	event water ponding								-	PA	h 155
	has been designed fo load nonconcurrent w		ds.								- A. A.	SAS.
		,									SOION	VAL ENIL
												11111
											Augus	t 20,2021

MiTek

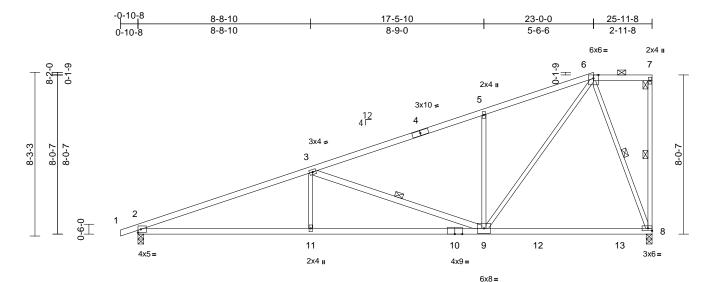
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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



August 20,2021

Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	B10	Half Hip	2	1	Job Reference (optional)	147536613

Half Hip 2 1 Job Reference (optional) Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:22 Page: 1 ID:RUbWQ10e1OcwWbKmNp?TpmymeQT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:58.2			8-8-10 8-8-10		<u>17-5</u> 8-9	-				<u>25-11</u> 8-5-1	-	
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.64	DEFL Vert(LL)	in -0.23	(loc) 8-9	l/defl >999		PLATES MT20	GRIP 197/144
TCDL BCLL BCDL	10.0 0.0* 10.0	Lumber DOL Rep Stress Incr Code	1.15 YES IRC2018/TPI2014	BC WB Matrix-S	0.60 0.69	Vert(CT)	-0.39 0.06 0.12	2-11 8 2-11	>787 n/a >999	240 n/a 240		FT = 10%

L	U	Ν	IB	E	R

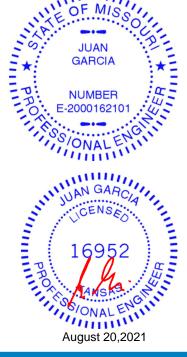
LOWIDER	
TOP CHORD	2x4 SPF No.2 *Except* 1-4:2x4 SPF 2100F 1.8E
BOT CHORD	2x4 SPF 2100F 1.8E
WEBS	2x3 SPF No.2 *Except* 9-3:2x4 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	3-7-9 oc purlins, except end verticals, and
	2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
WEBS	1 Row at midpt 7-8, 3-9, 6-8
REACTIONS	(lb/size) 2=1230/0-3-8, 8=1155/0-3-8
	Max Horiz 2=321 (LC 4)
	Max Uplift 2=-213 (LC 4), 8=-263 (LC 4)
	Max Grav 2=1258 (LC 2), 8=1241 (LC 2)
500050	
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/6, 2-3=-2624/349, 3-5=-1381/166,
	5-6=-1352/264, 6-7=-9/0, 7-8=-94/35
BOT CHORD	2-11=-569/2417, 9-11=-569/2417,
	8-9=-98/379
WEBS	3-11=0/371, 3-9=-1262/322, 5-9=-512/249,
	6-9=-297/1470, 6-8=-1082/288
NOTEO	

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle
 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 263 lb uplift at joint 8 and 213 lb uplift at joint 2.

- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	B11	Half Hip	2	1	Job Reference (optional)	147536614

Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:22

Page: 1

Wheeler Lumber, Waverly, KS - 66871,

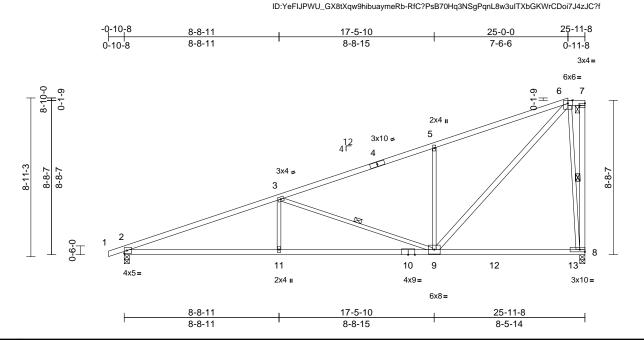


Plate Offsets (X, Y): [7:Edge,0-1-8]

Scale = 1:64.9

_			1	-										
Lo	ading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
тс	LL (roof)	25.0	Plate Grip DOL	1.15		TC	0.75	Vert(LL)	-0.21	2-11	>999	360	MT20	197/144
тс		10.0	Lumber DOL	1.15		BC	0.60	Vert(CT)	-0.40	2-11	>769	240		
BC	LL	0.0*	Rep Stress Incr	YES		WB	1.00	Horz(CT)	0.05	8	n/a	n/a		
BC	DL	10.0	Code	IRC2018	3/TPI2014	Matrix-S		Wind(LL)	0.13	2-11	>999	240	Weight: 105 lb	FT = 10%
	MBER			5)	* This truss h	as been designed	d for a liv	e load of 20	0psf					
	PCHORD	2x4 SPF No.2 *Exce	ept* 1-4:2x4 SPF 210	- /		n chord in all area			000.					
		1.8E	pt :	0.		y 2-00-00 wide w			om					
во	T CHORD	2x4 SPF 2100F 1.8E				y other members								
WE	BS	2x3 SPF No.2 *Exce	pt* 7-8,9-6:2x4 SPF	6)		hanical connection								
		No.2				capable of withst		241 lb uplift a	t					
BR	ACING					33 lb uplift at joint								
то	P CHORD	Structural wood she				designed in accor Residential Code			ام مر ح					LL .
			cept end verticals, ar	nd		nd referenced star			and				IN OF I	ALC'LL
		2-0-0 oc purlins (6-0		8)		rlin representation			ozizo				NE	Sol
BO	T CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	0)	or the orienta	ation of the purlin			SIZE			-	LP	
WE	BS	1 Row at midpt	7-8, 6-8, 3-9		bottom chord							20	🤊 JUA	N
RE	ACTIONS	(lb/size) 2=1228/0	-3-8, 8=1154/0-3-8	LC	LOAD CASE(S) Standard GARCIA									
		Max Horiz 2=376 (LC	C 7)									- 7		× -
		Max Uplift 2=-233 (L										-	1	·~ -
		Max Grav 2=1254 (L	_C 2), 8=1245 (LC 2)									=		BER
FO	RCES	(lb) - Maximum Com Tension	pression/Maximum										E-20001	62101
то	P CHORD	1-2=0/6, 2-3=-2607/	405, 3-5=-1377/236,									1	10.	GN
		5-6=-1363/349, 6-7=		5									SONA	ENIN
BO	T CHORD	2-11=-477/2401, 9-1	1=-477/2401,										- 1111	inn
\A/E	BS	8-9=-106/123 5-9=-578/278, 6-9=-	260/1657											
VVE	EB0	6-8=-1182/268, 3-11		05										
NO	TES												NUANC	ARCIN
		ed roof live loads have	been considered for										N CE	VSA
,	this design													0
2)	Wind: ASC	CE 7-16; Vult=115mph	(3-second gust)									-	1.1	1 2
		nph; TCDL=6.0psf; BC										11111	1.00	
		Enclosed; MWFRS (er										-	103	952
		left and right exposed										-	PI	
2)		sed; Lumber DOL=1.6										-	- C	- hi ! # 2
		dequate drainage to pr has been designed for											AN	SAS.
4)		load nonconcurrent wi		le									1.50	ENGIN
			and any other live load										ON	ALEIN
														nne.
													August	20 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 **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



August 20,2021

ſ	Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
	Lot 21 OS	B12	Monopitch	4	1	Job Reference (optional)	147536615

Run: 8,43 S Jul 29 2021 Print: 8,430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:22

Wheeler Lumber, Waverly, KS - 66871,

ID:KJ?ByJkTLjDmOf3x4bPypVymesQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-10-8 0-10-8 8-8-11 17-5-10 25-11-8 8-8-11 8-9-0 8-5-14 3x4 II 6 3x6 = 5 12 41 3x6 = 4 9-1-13 9-3-0 3x4 = 3 0-9-0 Ř 10 9 8 11 4x5= 3x6= 2x4 II 4x9= 3x6= 8-8-11 17-5-10 25-11-8 8-8-11 8-9-0 8-5-14

Scale = 1:63.1 Plate Offsets (X, Y): [8:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.21	2-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.40	2-10	>774	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.13	2-10	>999	240	Weight: 95 lb	FT = 10%

TOP CHORD	
	1.8E
BOT CHORD	2x4 SPF 2100F 1.8E
WEBS	2x3 SPF No.2 *Except* 5-7:2x4 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.

WEBS	1 Row at	midpt	6-7, 3-8, 5-7							
REACTIONS	(lb/size)	2=1230/0	-3-8, 7=1155/0-3-8							
	Max Horiz	2=365 (L	C 4)							
	Max Uplift	2=-198 (l	_C 4), 7=-277 (LC 8)							
	Max Grav	2=1261 (LC 2), 7=1222 (LC 2)							
FORCES	(lb) - Maximum Compression/Maximum Tension									
TOP CHORD		2-3=-2623 /47, 6-7=-2	/303, 3-5=-1408/134, 238/113							
BOT CHORD	2-10=-569 7-8=-286/	,	10=-569/2414,							

WEBS 3-10=0/371, 3-8=-1224/301, 5-8=0/779, 5-7=-1540/348

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left 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.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 277 lb uplift at joint 7 and 198 lb uplift at joint 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.

LOAD CASE(S) Standard



Page: 1



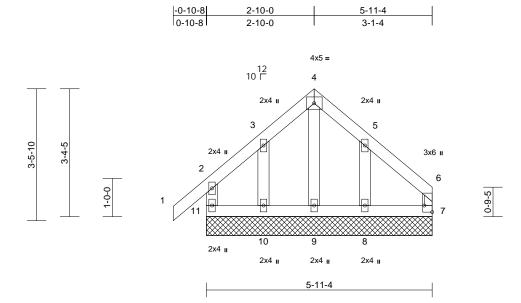
Job	Truss	Truss Type	Qty	Ply	Lot 21 OS		
Lot 21 OS	C1	Common Supported Gable	2	1	Job Reference (optional)	147536616	

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1.0

MITEK° 16023 Swingley Ridge Rd Chesterfield, MO 63017



Scale = 1:30.3

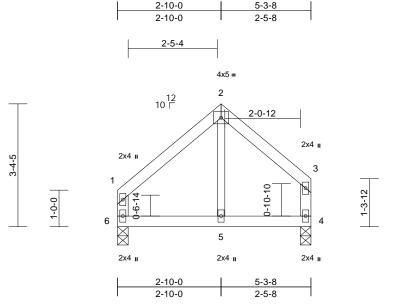
Plate Offsets (X, Y): [6:Edge,0-2-8]

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15		TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL		10.0	Lumber DOL	1.15		BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.02	Horz(CT)	0.00	7	n/a	n/a	M	FT 400/
BCDL		10.0	Code	IRC201	8/TPI2014	Matrix-R							Weight: 25 lb	FT = 10%
LUMBER TOP CHORD SOT CHORD WEBS DTHERS BRACING TOP CHORD SOT CHORD REACTIONS	2x4 SPF 2x4 SPF 2x4 SPF Structura 5-11-4 oc Rigid ceil bracing. (Ib/size) Max Horiz Max Uplift	No.2 No.2 *Exc No.2 wood she purlins, e ing directly 7=61/5-1 9=106/5- 11=152/5 11=150/5 11=100 (7=-31 (LC (LC 8), 1 7=77 (LC		2 4) 5) ed or 6) 7) 8) 0)=-76 9)	only. For str see Standar or consult qu Gable requin Truss to be braced again Gable studs This truss h chord live lo * This truss on the botto 3-06-00 tall chord and a Provide med bearing plate 11, 31 lb upl uplift at joint	ned for wind load uds exposed to v d Industry Gable ualified building d es continuous b fully sheathed fro that lateral mover spaced at 1-4-0 as been designer ad nonconcurrer has been designer ad nonconcurrer has been designer hanical connecti e capable of with fit at joint 7, 76 ll 8. designed in acc	vind (norm End Deta Jesigner a: ottom choio om one factor onent (i.e. c oc. d for a 10. ht with any ed for a liva ass where will fit betw rs. ion (by oth istanding 4 b uplift at jo	al to the face ils as applical s per ANSI/TF d bearing. te or securely liagonal web) D psf bottom other live loa e load of 20.0 a rectangle ween the botto ers) of truss t 55 lb uplift at j oint 10 and 85), ble, PI 1. ds. Dpsf om o ont			111 × PR	JU/ GAR NUM E-2000	CIA *
FORCES		11=152 (imum Cor	LC 1) npression/Maximum			Residential Coo nd referenced st			nd			1		GINI
TOP CHORD		5, 4-5=-43	0/46, 2-3=-62/58, 3/85, 5-6=-59/62,	LC	DAD CASE(S)	Standard							1,0N/ON/	ALENIN
BOT CHORD	10-11=-4 7-8=-46/4		=-46/46, 8-9=-46/46,										MIAN	GARC
,	ed roof live l		03/81, 5-8=-142/101										ICE	NSEO
this desigr 2) Wind: ASC Vasd=91n II; Exp C; cantilever	n. CE 7-16; Vu nph; TCDL= Enclosed; N left and righ	lt=115mpl 6.0psf; B0 1WFRS (e nt exposed	n (3-second gust) CDL=6.0psf; h=25ft; (nvelope) exterior zor I; end vertical left an 60 plate grip DOL=1.6	Cat. le; d								11111	PROKESSION	952 NSA ⁵ (NU) IAL ENGINI t 20,2021

Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	117500017	
Lot 21 OS	C2	Common	8	1	Job Reference (optional)	147536617	

Run: 8,43 S Jul 29 2021 Print: 8,430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:23 ID:WsvBNOjLj6tV3scSh1LPS5ymeps-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.01	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	5-6	>999	240	Weight: 18 lb	FT = 10%
LUMBER		•										

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except* 5-2:2x3 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	5-3-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(lb/size) 4=225/0-3-8, 6=225/0-3-8
	Max Horiz 6=93 (LC 7)
	Max Uplift 4=-24 (LC 8), 6=-19 (LC 8)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=-181/48, 2-3=-177/55, 3-4=-170/41,
	1-6=-178/44
BOT CHORD	5-6=-25/104, 4-5=-25/104
WEBS	2-5=-2/73

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf
- 4) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 6 and 24 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

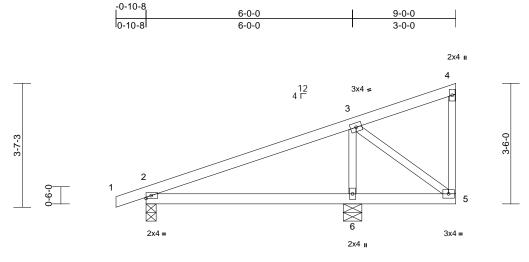




Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	147500040	
Lot 21 OS	D1	Monopitch	10	1	Job Reference (optional)	147536618	

Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:23 ID:mD69gL3zaDsltwbnhrqRSVymeo7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:33.5

00010 = 1.00.0												
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.44	DEFL Vert(LL)	in -0.04	(loc) 2-6	l/defl >999	L/d 360	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL	1.15 VEC	BC	0.24	Vert(CT)	-0.08	2-6	>902	240		
BCLL BCDL	0.0* 10.0	Rep Stress Incr Code	YES IRC2018/TPI2014	WB Matrix-P	0.09	Horz(CT) Wind(LL)	0.00 0.00	6 2-6	n/a >999	n/a 240	Weight: 29 lb	FT = 10%
	10.0	0000		Matrix I		TTING(EE)	0.00	20	2000	210	Wolght. 2016	11 - 1070
LUMBER												
TOP CHORD												
BOT CHORD WEBS	2x4 SPF No.2 2x3 SPF No.2											
BRACING	243 011 10.2											
TOP CHORD	Structural wood she	athing directly appli	ed or									
	6-0-0 oc purlins, ex											
BOT CHORD	Rigid ceiling directly	applied or 6-0-0 oc										
	bracing.											ID.
REACTIONS		3-8, 6=582/0-6-8									IN OF	MICH
	Max Horiz 2=143 (LC Max Uplift 2=-68 (LC	,									NE	Soli
FORCES	(lb) - Maximum Corr									2	18	
FORCES	Tension	ipression/waximum								20	JU,	AN ??
TOP CHORD	1-2=0/6, 2-3=-153/1	29, 3-4=-83/31,								2.	GAF	
	4-5=-27/14									= *		× =
BOT CHORD	,									5-1		imE
WEBS	3-6=-460/197, 3-5=-	58/55								= 1	NUM	• 41.
NOTES	CE 7-16; Vult=115mph	(2 accord quat)								-	C. E-2000	162101
	nph; TCDL=6.0psf; BC		Cat							1	A	
	Enclosed; MWFRS (er										IS/ON	AL ENIN
	left and right exposed											
	sed; Lumber DOL=1.6		.60									10.5
	has been designed fo load nonconcurrent wi		de									IIIII.
	s has been designed f										11 UAN	GARC
	tom chord in all areas										1 30	NO
	II by 2-00-00 wide will	fit between the bott	om								UCE	SED .
	any other members.		ha							-	1.1	1 4
	echanical connection ate capable of withstar										16	050
	Ib uplift at joint 6.	inding oo io apint at j	onn							-	· · · · · · · · · · · · · · · · · · ·	952
5) This truss	is designed in accorda	ance with the 2018								-	PT:	1.5
	nal Residential Code s		and								0. 4	Ma .: 43
	2 and referenced stand	lard ANSI/TPI 1.									- A	VSA
LOAD CASE(S) Standard										SION	VALENIN
											1111	IIIII
											Augus	st 20.2021

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

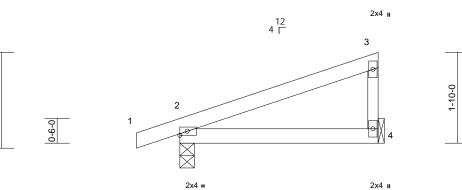
August 20,2021

Job	Truss	Truss Type		Ply	Lot 21 OS		
Lot 21 OS	D2	Monopitch	10	1	Job Reference (optional)	147536619	

Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:23 ID:X17cwuNehu0CNm?bfbnIzmymenk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







4-0-0

Scale	- '	1.23	2

Scale = 1.23.2												
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.01	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	2-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 10%
LUMBER												
TOP CHORD	2x4 SPF No.2											
BOT CHORD	2x4 SPF No.2											
WEBS	2x3 SPF No.2											
BRACING												
TOP CHORD	Structural wood she	athing directly applie	ed or									
	4-0-0 oc purlins, ex	cept end verticals.										
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 of	с									
	bracing.											n.,
REACTIONS	(lb/size) 2=250/0-3	8-8, 4=159/ Mechani	ical								UNITE STATE	
	Max Horiz 2=69 (LC	7)									NE OF	VISS
	Max Uplift 2=-75 (LC	4), 4=-35 (LC 8)								1	1.	
FORCES	(lb) - Maximum Com	pression/Maximum								5	X	
	Tension										⊅. JUA	AN

TOP CHORD 1-2=0/6, 2-3=-69/35, 3-4=-122/57 BOT CHORD 2-4=-21/16

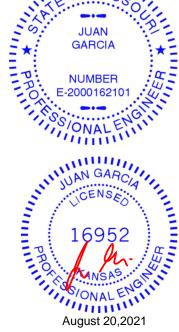
NOTES

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

1-11-3

- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 3) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections. 4)
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 4 and 75 lb uplift at joint 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.

LOAD CASE(S) Standard





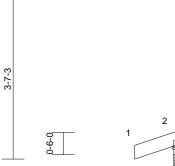
Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	D3	Monopitch Supported Gable	2	1	Job Reference (optional)	147536620

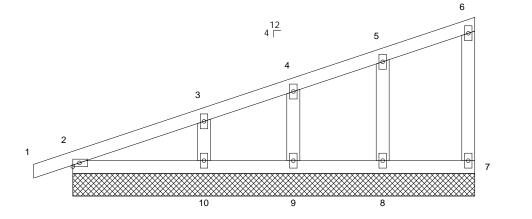
Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:23 ID:uoWng22mV53F5NHMxMnREaymems-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

3-6-0







9-0-0

Scale = 1:25.8

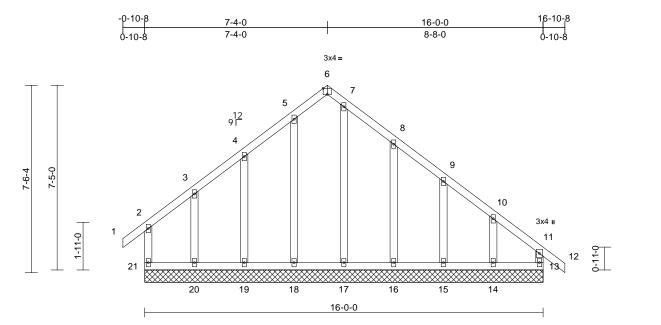
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 10%
LUMBER				uss has been designe			psf					
TOP CHORD				ottom chord in all are								
BOT CHORD	2x4 SPF No.2			tall by 2-00-00 wide		veen the botto	m					
WEBS	2x4 SPF No.2			d any other member mechanical connecti		ora) of truco to						
OTHERS	2x4 SPF No.2			plate capable of with								
BRACING		this	7 25 16	uplift at joint 2, 67 lb								
TOP CHORD		eathing directly applie		and 48 lb uplift at jo								
BOT CHORD	6-0-0 oc purlins, e	v applied or 10-0-0 or		s is designed in acco		ith the 2018						
BOTCHORD	bracing.	y applied of 10-0-0 of	Internati	onal Residential Cod			nd					1117.
REACTIONS	0	-0-0, 7=67/9-0-0,		.2 and referenced sta	andard AN	NSI/TPI 1.					N'OF	MISSI
REACTIONS		-0-0, 9=150/9-0-0,	LOAD CAS	E(S) Standard							NKE	
	10=256/									~	18	
	Max Horiz 2=142 (L	_C 5)								20	JU/	AN ??
		C 4), 7=-14 (LC 5), 8								Ξ.	GAR	
	(LC 8), 9	=-38 (LC 4), 10=-67	(LC 8)							- *	:	:*=
FORCES	(lb) - Maximum Co Tension	mpression/Maximum								EP		
TOP CHORD	1-2=0/6, 2-3=-113/	41 3-4=-81/17								:5	NUM	• 41.
	4-5=-70/24, 5-6=-6									- 1	E-2000	162101
BOT CHORD		-45/34, 8-9=-45/34,								1	~~· -·	
	7-8=-45/34										1.SSICT	ENUN
WEBS	3-10=-195/103, 4-9	=-119/56, 5-8=-158/7	75								UN N	ALLIN
NOTES												111.
	CE 7-16; Vult=115mp											III.
	nph; TCDL=6.0psf; B											GAD
	Enclosed; MWFRS (e										NUAN	CI2 .
	left and right exposed sed; Lumber DOL=1.										S CE	NSA
	igned for wind loads i											0
	studs exposed to win									-	6 A	- A E
	ard Industry Gable E									-	16	952
or consult	qualified building des	signer as per ANSI/TF	PI 1.							-	THE LOCE	552
3) All plates a	are 2x4 MT20 unless	otherwise indicated.								-	7	
	uires continuous botte										0	Mar 145
	ds spaced at 2-0-0 oc										- A. MI	VSAS
	has been designed for		4-								I, SION	IN EN IN
chord live	load nonconcurrent v	vith any other live loa	IdS.									AL
											A	4 00 0004
											Augus	t 20,2021



Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	E1	Common Supported Gable	4	1	Job Reference (optional)	147536621

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Page: 1



Scale = 1:46.3

Plate Offsets (X, Y): [6:0-2-0,Edge]

				-		1								
Loading		(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15		TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL		10.0	Lumber DOL	1.15		BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.15	Horz(CT)	0.00	13	n/a	n/a		
BCDL		10.0	Code	IRC20	18/TPI2014	Matrix-R	_						Weight: 80 lb	FT = 10%
BCDL LUMBER TOP CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No. 2x4 SPF No. 2x4 SPF No. 2x4 SPF No. Structural we 6-0-0 oc purl Rigid ceiling bracing. (lb/size) 13 15 17 Max Horiz 21 Max Horiz 21 Max Uplift 13 17 20 Max Grav 13 15 17 21 Max Grav 13 15 17 21 Max 13 21 Max 21 21 21 21 21 21 21 21 21 21 21 21 21 2	10.0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 162/11 5 5 162/11 1 5 162/11 1 5 162/11 1 5 162/11 1 5 5 162/11 1 5 162/11 1 5 5 162/11 1 5 162/11 1 5 162/11 1 5 162/11 1 5 162/11 1 5 162/11 1 5 162/11 1 5 162/11 1 5 162/11 1 5 162/11 1 5 162/11 1 5 162/11 1 5 162/11 1 5 162/11 1 5 162/11 1 5 162/11 1 5 162/11 1 5 16 16 1 5 16 16 16 17 16 16 16 17 16 16 16 16 16 16 16 16 16 16 16 16 16	Code athing directly applied cept end verticals. applied or 10-0-0 oc 6-0-0, 16=178/16-0-0, 6-0-0, 18=179/16-0-0, 6-0-0, 20=164/16-0-0, 6-0-0, LC 6) LC 5), 14=-146 (LC 9). C 9), 16=-117 (LC 9), C 9), 16=-117 (LC 9), C 6), 19=-97 (LC 8), LC 8), 21=-32 (LC 9) .C 15), 14=241 (LC 16 .C 17), 18=179 (LC 1), .C 15), 20=218 (LC 15)	IRC20 V 1 1 or 2 3 3 4 5 6 6 7 7 9), 8 9),	VEBS) Unbalanced this design.) Wind: ASCE Vasd=91mpl II; Exp C; En cantilever lef right expose) Truss design only. For stu see Standard or consult qu) All plates are) Gable requir) Truss to be f braced agair) Gable studs) This truss ha chord live loa) * This truss f on the bottor 3-06-00 tall t chord and ar 0) Provide mec	Matrix-R 3-20=-155/121, 4 7-17=-195/61, 8-1 10-14=-172/138 roof live loads ha 7-16; Vult=115m n; TCDL=6.0psf; 1 closed; MWFRS t and right expos- d; Lumber DOL= d; Lumber DOL= d; Lumber DOL= sed for wind loads ds exposed to wid d Industry Gable ialified building d e 2x4 MT20 unles es continuous bo ully sheathed from spaced at 2-0-00 ully sheathed from spaced at 2-0-00 us been designed ad nonconcurrent has been designed ad nonconcurrent has been designed y 2-00-00 wide w y other members hanical connection	-19=-156 16=-146/1 ave been BCDL=6. (envelope ed ; end v 1.60 plates in the pl ind (norm End Deta esigner a: so otherwit thom choo m one face ent (i.e. c oc. for a 10. with any ed for a liv as where vill fit betv s. on (by oth	/127, 5-18=-1 39, 9-15=-14 considered fo cond gust) Opsf; h=25ft; (e) exterior zor vertical left an g grip DOL=1. ane of the tru al to the face ils as applical s per ANSI/TF se indicated. to bearing. the or securely liagonal web) 0 psf bottom other live loa re load of 20.0 a rectangle veen the bottot ers) of truss t	39/0, 5/90, r Cat. ne; d 60 ss), ble, PI 1.				JU/ GAF	MISSOLAN AN ACIA
TOP CHORD	2-21=-145/4 3-4=-53/97, 4 6-7=-70/129, 9-10=-153/1 11-13=-198/ 20-21=-162/	4-5=-78 , 7-8=-1 53, 10-1 114 171, 19	0/43, 2-3=-57/59, /169, 5-6=-81/176, 20/229, 8-9=-136/163, 1=-200/189, 11-12=0/- -20=-162/171, -18=-162/171,	43,	 21, 133 lb up uplift at joint joint 16, 58 ll 14. 1) This truss is International 	e capable of withs blift at joint 13, 12 19, 21 lb uplift at b uplift at joint 15 designed in acco Residential Code	3 lb uplift joint 17, and 146 ordance w e sections	at joint 20, 9 117 lb uplift a lb uplift at join ith the 2018 \$ R502.11.1 a	7 lb t ht			and the	THE TOP	952 H
		171, 15	-16=-162/171,	L	R802.10.2 a OAD CASE(S)	nd referenced sta Standard	andard AN	NSI/TPI 1.					ALSSION	VSAS. CIN

August 20,2021



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 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

Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	E2	Common	10	1	Job Reference (optional)	147536622

Run: 8,43 S Jul 29 2021 Print: 8,430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:24 ID:pM8GSn_aWSZw7Zns6B7B2cymej4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

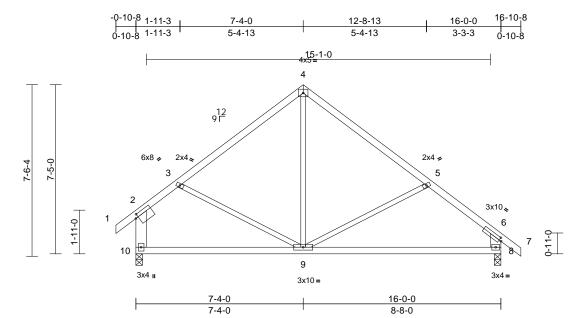


Plate Offsets (X, Y): [Plate Offsets (X, Y): [2:0-1-7,0-1-12], [6:0-1-2,0-1-8]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.96	Vert(LL)	-0.12	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.24	8-9	>788	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	8-9	>999	240	Weight: 64 lb	FT = 10%

LUMBER

Scale = 1:50.5

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 *Except* 10-2:2x6 SPF No.2, WEBS 8-6:2x6 SP DSS BRACING Structural wood sheathing directly applied, TOP CHORD except end verticals.

- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (lb/size) 8=777/0-3-8, 10=777/0-3-8
- Max Horiz 10=-230 (LC 6) Max Uplift 8=-101 (LC 9), 10=-91 (LC 8) FORCES (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=0/46, 2-3=-637/119, 3-4=-584/135, 4-5=-614/129, 5-6=-808/147, 6-7=0/46, 2-10=-700/121, 6-8=-684/143 BOT CHORD 9-10=-133/435, 8-9=-51/554 WEBS 4-9=-6/306. 5-9=-222/207. 3-9=-50/161

NOTES

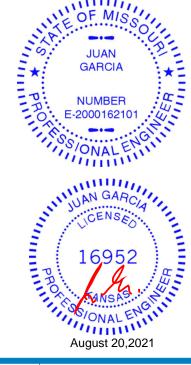
Unbalanced roof live loads have been considered for 1) this design

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 4) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 91 lb uplift at joint 10 and 101 lb uplift at joint 8.

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.

LOAD CASE(S) Standard



Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	E3	Common	8	1	Job Reference (optional)	147536623

Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:24 ID:nXe?qst6_BoswR8_AbRTmDymefK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



16-0-0

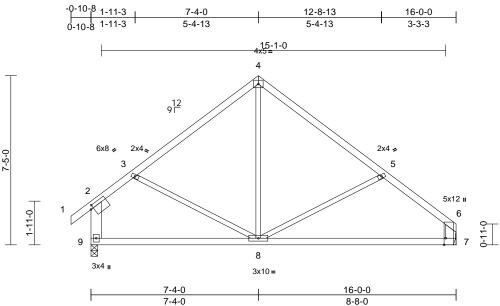


Plate Offsets (X, Y): [2:0-1-7,0-1-12], [6:0-3-8,Edge]

	(.,,.). [=,], [ere e e,=ege]										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.11	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.23	7-8	>801	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	8	>999	240	Weight: 62 lb	FT = 10%
LUMBER				mechanical connect								
TOP CHORD				plate capable of with	nstanding 7	' lb uplift at jo	oint 9					
BOT CHORD				uplift at joint 7.								
WEBS	2x3 SPF No.2 *Exce No.2	ept* 9-2,7-6:2x6 SPF	Ínternati	is is designed in acc onal Residential Coo	de sections	R502.11.1	and					
BRACING				.2 and referenced st	tandard AN	ISI/TPI 1.						
TOP CHORD	Structural wood she except end verticals	eathing directly applie	ed, LOAD CAS	E(S) Standard								
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	2								NE OF	MISS
REACTIONS	(lb/size) 7=697/ M Max Horiz 9=-172 (L	echanical, 9=779/0-3 .C 6)	3-8							3	LP	-
	Max Uplift 7=-2 (LC										JU.	AN
FORCES	(lb) - Maximum Com	npression/Maximum								24	GAF	RCIA
	Tension									2.0	÷	101
TOP CHORD	1-2=0/46, 2-3=-638/	46, 3-4=-586/63,								-		
	4-5=-615/58, 5-6=-8	16/58, 2-9=-701/40,								= 7	NUM	BER :
	6-7=-599/45										E-2000	162101
BOT CHORD	,									1	A	
WEBS	4-8=0/306, 5-8=-224	4/135, 3-8=-31/139									1. 50	
NOTES											IN ON	ALEIN
 Unbalance this design 	ed roof live loads have n.	been considered for										
	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC		Cat									GADIN
	Enclosed; MWFRS (er										NAU	CAACIN
and right e	exposed ; end vertical	left and right expose	d;								S CE	NSA
	OL=1.60 plate grip DC											SO .
	has been designed fo									-	1 / L	- A E
	load nonconcurrent wi										10	050
	s has been designed f		psf								10	952 🗧
	ttom chord in all areas									-	P:	:#:
	all by 2-00-00 wide will any other members.	tit between the botto	m								0.	M.143
	irder(s) for truss to trus	es connections									- A HAT	VSA9.
5) Releritog											1.56	ENGIN
											i i or	VALE
												IIIII.
											Augus	st 20,2021

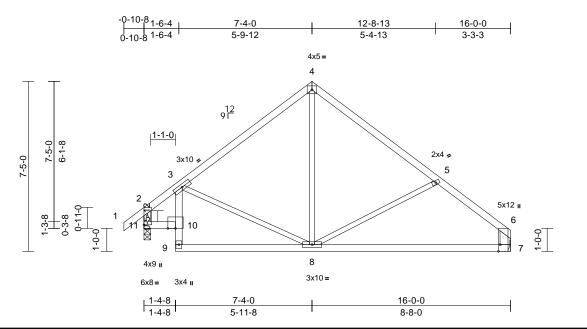
- 3) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 4) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.



Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	E4	Roof Special	4	1	Job Reference (optional)	147536624

Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:24 ID:t7Jxf679Q15cctnYVxFrmEymecR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:50.3

Plate Offsets (X, Y): [6:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.12	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.24	7-8	>784	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	8-9	>999	240	Weight: 63 lb	FT = 10%
LUMBER			6) Provide m	echanical connecti	ion (by oth	ers) of truss	to					
TOP CHORD	2x4 SPF No.2			ate capable of with								
BOT CHORD	2x4 SPF No.2			uplift at joint 7.	J							
WEBS		ept* 11-2:2x4 SPF N		is designed in acc								
	7-6:2x6 SPF No.2		Internation	al Residential Coc	de sections	s R502.11.1 a	and					
BRACING			R802.10.2	and referenced st	tandard AN	ISI/TPI 1.						
TOP CHORD	Structural wood sh	eathing directly appli	ed or LOAD CASE(Standard 								
	5-6-11 oc purlins,	except end verticals.										Шл. — — — — — — — — — — — — — — — — — — —
BOT CHORD		y applied or 10-0-0 o	с								IN OF	MICH
	bracing.										NE	SS
REACTIONS	· /	lechanical, 11=777/0)-3-8							- 5	P	
	Max Horiz 11=158									-	S. JU	ANI : D-
	Max Uplift 7=-5 (LC									2		
FORCES		mpression/Maximum								= *	GAF	
	Tension									-	÷	
TOP CHORD	1-2=0/43, 2-3=-566									-0	NUN	
	4-5=-621/56, 5-6=- 6-7=-603/49	823/63, 2-11=-487/2								= 5		• 41
BOT CHORD		0=0/89, 3-10=-204/5	7							-1	E-2000	162101
	8-9=-49/419, 7-8=-		Ι,							1	A	-
WEBS		/316, 5-8=-224/134									1.SION	ENIN
NOTES	,										- I ON	ALLIN
	ed roof live loads hav	e been considered fo	r									1003
this design												1111.
	CE 7-16; Vult=115mp	h (3-second gust)									ALL AN	GAD
	nph; TCDL=6.0psf; B										NUAN	CIA
II; Exp C;	Enclosed; MWFRS (e	envelope); cantilever	left								CE	NSA
	exposed ; end vertical		ed;									10 1 2
	OL=1.60 plate grip D									-	6 A	1 2
	has been designed for load nonconcurrent v		da							-	: 16	952
	s has been designed									-	UCE DE 16	592
	tom chord in all areas		opoi							-	D.	4 155
	all by 2-00-00 wide wil		om								0.	14:145
	any other members.										- A	NSA ⁵
5) Refer to g	irder(s) for truss to tru	iss connections.									1.0010	IN ENIN
											111	VAL
												+ 20, 2024
											Augus	st 20,2021

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.

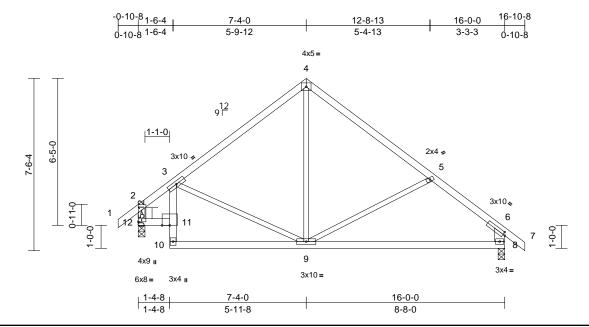
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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



Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	E5	Roof Special	2	1	Job Reference (optional)	147536625

Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:24 ID:PTpPaOWsfAGx4youxNLacBymebw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale =	1:50.3

Plate Offsets (X, Y): [6:0-1-2,0-1-8]

_oading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
FCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.12	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.24	8-9	>773	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI201	4 Matrix-S		Wind(LL)	0.03	9	>999	240	Weight: 64 lb	FT = 10%
UMBER			6) This tru	ss is designed in acc	ordance w	ith the 2018						
FOP CHORD	2x4 SPF No.2			ional Residential Coo			nd					
BOT CHORD	2x4 SPF No.2			0.2 and referenced st	andard AN	ISI/TPI 1.						
VEBS	2x3 SPF No.2 *Exce 8-6:2x6 SP DSS	pt* 12-2:2x4 SPF N	o.2, LOAD CAS	E(S) Standard								
BRACING												
TOP CHORD	Structural wood she 5-2-11 oc purlins, e		ed or									
BOT CHORD	Rigid ceiling directly		с								NILL P	
	bracing.										NEOF	MISS
REACTIONS ((lb/size) 8=781/0-3	3-8, 12=774/0-3-8								1	A	
	Max Horiz 12=204 (I										A	·
I	Max Uplift 8=-108 (L	C 9), 12=-93 (LC 8)								2	JU	
ORCES	(lb) - Maximum Corr	pression/Maximum								= *	GAR	
	Tension	05 0 4 00 4/4 50								-		
FOP CHORD	1-2=0/43, 2-3=-563/ 4-5=-620/127, 5-6=-									- 7	NUM	BEB : C-
	2-12=-484/57, 6-8=-									-7	E-2000	• 41-
BOT CHORD	11-12=-94/476, 10-1		95.								A	
	9-10=-104/443, 8-9=	,	,								A	G
NEBS	4-9=-25/316, 3-9=-5	1/158, 5-9=-221/205	5								IN ON	ALENI
NOTES											- 444	iiiii
,	d roof live loads have	been considered fo	r									•
this design.												IIIII.
,	E 7-16; Vult=115mph		0-4								AN	GARC
	oh; TCDL=6.0psf; BC nclosed; MWFRS (er										1 30	NO
	eft and right exposed										JOE	NOED .
	ed; Lumber DOL=1.6									-		1 5
	as been designed fo									-	1	
chord live lo	bad nonconcurrent wi	th any other live loa									: 16	952 : 3
	has been designed f		Opsf							-	D	
	om chord in all areas									-	B	M - # =
	by 2-00-00 wide will any other members.	fit between the botto	m								- A HAT	VSAS RAN
	chanical connection	by others) of truss t	0								1, 581-	ENGIN
,	te capable of withstar										INON	ALE
	lb uplift at joint 8.	- , · · · ,									100	IIII.
											Augus	t 20,2021

- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 4) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 12 and 108 lb uplift at joint 8.

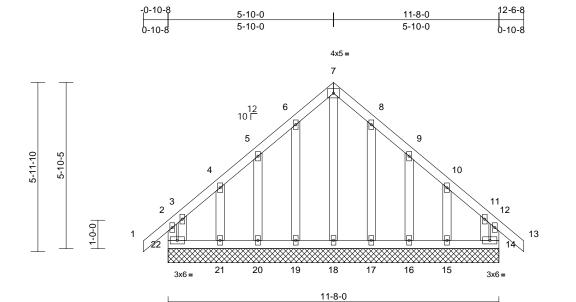
MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	G1	Common Supported Gable	2	1	Job Reference (optional)	147536626

Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:25 ID:ka1cLzMW3Hgx2zY6G2jmcMymelA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Doi7J4zJC?f



Scale = 1:40.6

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-R	0.07 0.05 0.08	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 14	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 64 lb	GRIP 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood sh 10-0-0 oc purlins, Rigid ceiling directl bracing. (Ib/size) 14=151/ 16=121/	eathing directly applied except end verticals. y applied or 6-0-0 oc 11-8-0, 15=112/11-8-0 11-8-0, 17=127/11-8-0	1) 2) d or 3) , ,	this design. Wind: ASCE Vasd=91mpl II; Exp C; En cantilever lef right expose Truss design only. For stu see Standard or consult qu All plates are	roof live loads ha 7-16; Vult=115m n; TCDL=6.0psf; closed; MWFRS t and right expose d; Lumber DOL= ed for wind load: ds exposed to w d Industry Gable alified building d e 2x4 MT20 unles	nph (3-sec BCDL=6.((envelope sed ; end v 1.60 plate s in the plate vind (norm End Deta esigner as ss otherwi	cond gust) Dps; h=25ft; (e) exterior zon ertical left and grip DOL=1.6 ane of the trus al to the face) ils as applicat b per ANSI/TF se indicated.	Cat. e; d 60 ss ,				INTE OF /	MISSO	
	20=121/ 22=151/ Max Horiz 22=-176 Max Uplift 14=-66 (16=-52 (19=-51 (21=-121 Max Grav 14=171 16=123 18=180 20=123 22=186	(LC 6) LC 5), 15=-116 (LC 9) LC 9), 17=-50 (LC 9), LC 8), 20=-50 (LC 8), (LC 8), 22=-84 (LC 4) LC 15), 15=171 (LC 1) LC 22), 17=137 (LC 1) LC 21), 19=138 (LC 1) LC 21), 21=181 (LC 1) LC 16)	5) 7 (6) 7) 7 (8) 9) 6), 6), 5), 10	Gable requir Truss to be f braced agair Gable studs This truss ha chord live loa * This truss f on the bottor 3-06-00 tall t chord and ar) Provide mec bearing plate	es continuous bo ully sheathed fro ist lateral moven spaced at 1-4-0 s been designed ad nonconcurren nas been designe n chord in all are by 2-00-00 wide y other member hanical connectin capable of withs ft at joint 14, 51	ottom chor m one fac nent (i.e. d oc. d for a 10.0 t with any ed for a liv eas where will fit betw s. on (by oth standing 8	d bearing. e or securely iagonal web). 0 psf bottom other live load e load of 20.0 a rectangle veen the bottc ers) of truss to 4 lb uplift at jo	ds. psf m o pint			in * Philip	JUA GAR NUME E-20001	CIA BER	
FORCES	Tension 2-22=-140/111, 1-2 3-4=-107/111, 4-5= 6-7=-31/161, 7-8=- 9-10=-44/93, 10-11 12-13=0/46, 12-14=	-59/99, 5-6=-51/137, 19/155, 8-9=-33/130, =-86/96, 11-12=-11/33 133/107	3,	uplift at joint joint 17, 52 ll 15. I) This truss is International	20, 121 lb uplift a b uplift at joint 16 designed in acco Residential Cod nd referenced sta	at joint 21, and 116 ordance w e sections	50 lb uplift at lb uplift at join ith the 2018 5 R502.11.1 at	t				LICE	SARCIA NSEO	ALL DE LE DE
BOT CHORD	18-19=-87/92, 17-1 15-16=-87/92, 14-1 7-18=-156/0, 6-19= 4-21=-132/117, 3-2	-110/65, 5-20=-96/73,	92, 92,	UND UNDE(S)	Sidiiùdiù						THE.	OAL CAN	952 ALENGIN 1 20,2021	



Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	G2	Common	4	1	Job Reference (optional)	147536627

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11-8-0

5-10-0



0-10-8 12-6-8 5-10-0 11-8-0 5-10-0 5-10-0 0-10-8 d-10-8 4x5 = 3 12 10 Г 5-11-10 5-10-5 5-5-4 5-5-4 2 Δ 4 0-0ċ X Ø 7 5x12 II 5x12 II 2x4 u

> 5-10-0 5-10-0

Scale = 1:42.6

Plate Offsets (X, Y): [6:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.38	Vert(LL)	-0.02	7-8	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.05	7-8	>999	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	6	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	-0.03	7-8	>999	240	Weight: 39 lb	FT = 10%	

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 *Except* 7-3:2x3 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (lb/size) 6=583/0-3-8, 8=583/0-3-8 Max Horiz 8=-176 (LC 6) Max Uplift 6=-72 (LC 9), 8=-72 (LC 8) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/46, 2-3=-510/109, 3-4=-510/109, 4-5=0/46, 2-8=-528/124, 4-6=-528/124 BOT CHORD 7-8=-4/311, 6-7=-4/311 WEBS 3-7=0/241

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 4) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 8 and 72 lb uplift at joint 6.

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.

LOAD CASE(S) Standard

MIS 0 VIII * PRUM JUAN GARCIA NUMBER F 2000162101 C E ONAL 1111 16952 BONSESSONALEN August 20,202 JGIT

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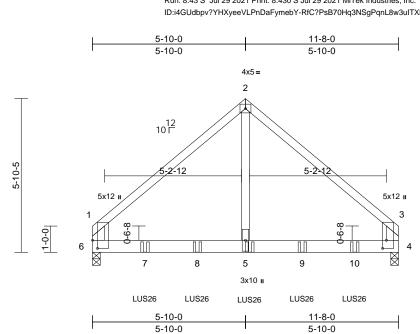
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August 20,2021

Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	G3	Common Girder	2	2	Job Reference (optional)	147536628

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Scale = 1:43.9

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

	, , , E ,-], [0:0 0 12,0 1 12]											
Loading TCLL (roof) TCDL BCLL BCDL LUMBER TOP CHORD BOT CHORD		Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code		chord live loa	CSI TC BC WB Matrix-R is been designed ad nonconcurren nas been designed	t with any	other live loa		(loc) 5-6 5-6 4 5-6	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 106 lb	GRIP 197/144 FT = 10%
WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x6 SPF No.2 *Exce Structural wood she 6-0-0 oc purlins, exc Rigid ceiling directly bracing.	athing directly applie cept end verticals. applied or 10-0-0 or -3-8, 6=2158/0-3-8 C 6)	ed or 7)	on the botton 3-06-00 tall li chord and an Provide mec bearing plate 6 and 87 lb o This truss is International R802.10.2 a	n chord in all are by 2-00-00 wide v by other member hanical connective capable of with- uplift at joint 4. designed in accc Residential Cod nd referenced sta h Strong-Tie LUS	eas where will fit betw 's. on (by oth standing 8 ordance w le sections andard AN	a rectangle veen the both ers) of truss 2 lb uplift at th the 2018 R502.11.1 a ISI/TPI 1.	to joint			11.	THE OF /	MISSOU
FORCES	1-6=-1371/126, 3-4=	- 1944/140, 1371/126	10	Truss) or eq 2-0-0 from th back face of) Fill all nail ho	uivalent spaced a le left end to 10-0 bottom chord. ples where hange	at 2-0-0 oc 0-0 to con	max. startin	ng at s) to			it P	GAR GAR	
(0.131"x3" Top chord oc, 2x6 - 2 Bottom ch staggered	5-6=-38/1388, 4-5=- 2-5=-5/1968 to be connected toget) nails as follows: s connected as follows 2 rows staggered at 0-5 ords connected as follows at 0-9-0 oc. ected as follows: 2x4 -	ther with 10d s: 2x4 - 1 row at 0-9- 9-0 oc. ows: 2x6 - 2 rows	1)	Plate Increa Uniform Lo Vert: 1-2 Concentrat	of Live (balanced ase=1.15 ads (lb/ft) =-70, 2-3=-70, 4- ed Loads (lb) 677 (B), 7=-677	-6=-20					hin.	E-20001	62101
 All loads a except if n CASE(S) is provided to unless oth Unbalance this design Wind: ASC Vasd=91m II; Exp C; I cantilever 	are considered equally noted as front (F) or bar section. Ply to ply conr o distribute only loads nerwise indicated. ed roof live loads have	applied to all plies, ck (B) face in the LC rections have been noted as (F) or (B), been considered fo (3-second gust) DL=6.0psf; h=25ft; (vvelope) exterior zor ; end vertical left an	r Cat. ne; d								annun.	PROCESSION	SAS ALENGIN

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



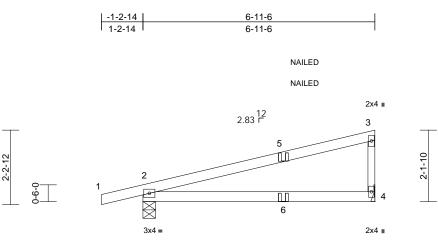
August 20,2021

Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	J1	Diagonal Hip Girder	4	1	Job Reference (optional)	147536629

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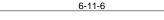
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NAILED



Scale = 1:34.5												
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.93	Vert(LL)	-0.12	2-4	>680	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.23	2-4	>340	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 10%

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

LOAD CASE(S) Standard

Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-3=-70, 2-4=-20

1)

LUMBER

.

TOP CHORD	2x4 SPF I	No.2
BOT CHORD	2x4 SPF I	No.2
WEBS	2x3 SPF I	No.2
BRACING		
TOP CHORD	Structural	wood sheathing directly applied or
	6-0-0 oc p	ourlins, except end verticals.
BOT CHORD	Rigid ceili	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(lb/size)	2=410/0-4-9, 4=289/ Mechanical
	Max Horiz	2=79 (LC 5)
	Max Uplift	2=-119 (LC 4), 4=-59 (LC 8)
FORCES	(lb) - Max	imum Compression/Maximum

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/6, 2-3=-77/46, 3-4=-222/99 BOT CHORD 2-4=-26/20

BOT CHORD

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 4 and 119 lb uplift at joint 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.
 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d
- (0.148"x3.25") toe-nails per NDS guidlines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

JUAN GARCIA NUMBER E-2000162101 S/ONAL ENGINE 16952 S/ONAL ENGINE S/ONAL ENGINE August 20,2021



Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	J2	Jack-Open	8	1	Job Reference (optional)	147536630

-0-10-8

0-10-8

Wheeler Lumber, Waverly, KS - 66871,

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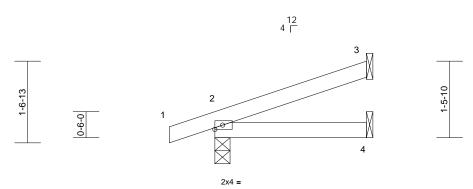
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2-10-15

2-10-15

Page: 1





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Scale) = (1:22.	1

14										
4										
0%										
HORD 2x4 SPF No.2 HORD 2x4 SPF No.2										
DP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins.										
11.										
0/1										
. 0-										
122										
1.15										
· · · ·										
· · · · ·										
:4-										
. 2.										
GIN										
1										

- II; Exp C; Enclosed; MWFRS (envelope) exterior 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.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 3 and 64 lb uplift at joint 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.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	J3	Jack-Open	16	1	Job Reference (optional)	147536631

-0-10-8

0-10-8

Wheeler Lumber, Waverly, KS - 66871,

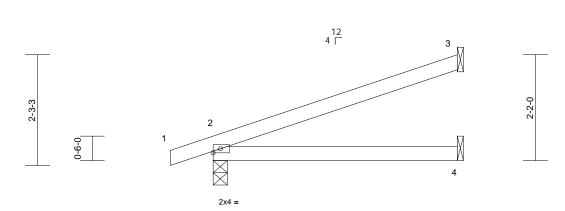
Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:26 ID:xQWvKDdC7soq?irAqtNqfDymf0u-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5-0-0

5-0-0

5-0-0





Scale = 1:23.6												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.03	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.06	2-4	>909	240		
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-P							Weight: 13 lb	FT = 10%
LUMBER												

TOP CHORD	2x4 SPF	No.2
BOT CHORD	2x4 SPF	No.2
BRACING		
TOP CHORD		I wood sheathing directly applied or
	5-0-0 oc j	purlins.
BOT CHORD	Rigid ceil bracing.	ing directly applied or 10-0-0 oc
REACTIONS	(lb/size)	2=295/0-3-8, 3=160/ Mechanical, 4=48/ Mechanical
	Max Horiz	2=80 (LC 4)
	Max Uplift	2=-74 (LC 4), 3=-81 (LC 8)
	Max Grav	2=295 (LC 1), 3=160 (LC 1), 4=96 (LC 3)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	·
TOP CHORD	1-2=0/6, 2	2-3=-62/46
BOT CHORD	2-4=0/0	
NOTES		
1) Wind: AS	CE 7-16; Vu	It=115mph (3-second gust)

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior 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.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 3 and 74 lb uplift at joint 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.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	J4	Jack-Closed Supported Gable	2	1	Job Reference (optional)	147536632

5-0-0

5-0-0

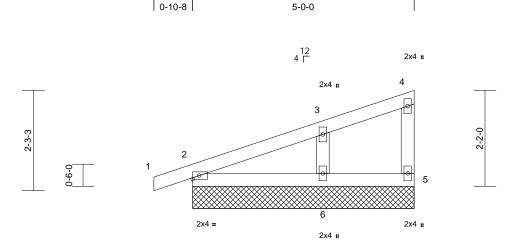
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Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:26 ID:m6x1ku6Hi9r9orvsAH5DHfymf0G-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 Structural wood she 5-0-0 oc purlins, ex Rigid ceiling directly bracing.	cept end verticals. applied or 10-0-0 of	bearing pla 5, 50 lb upl 8) This truss i Internations R802.10.2 ed or LOAD CASE(S	chanical connect te capable of wit ift at joint 2 and (s designed in ac al Residential Cc and referenced s) Standard	hstanding 9 66 lb uplift a cordance w ode sections) Ib uplift at jo at joint 6. ith the 2018 8 R502.11.1 a	pint				NUMPE	
REACTIONS	(ID/SIZE) 2=180/5-(6=267/5-(Max Horiz 2=83 (LC Max Uplift 2=-50 (LC (LC 8)	5)	66								S JU/	
FORCES	(lb) - Maximum Com Tension	pression/Maximum								=*	C. Martin	*

 TOP CHORD
 1-2=0/6, 2-3=-66/41, 3-4=-47/14, 4-5=-41/15

 BOT CHORD
 2-6=-26/20, 5-6=-26/20

 WEBS
 3-6=-204/104

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

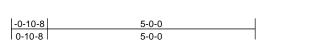
GARCIA NUMBER E-2000162101 UAN GARCIA CENSED 16952 DO 16952 DO 16952 August 20,2021

August 20,2021

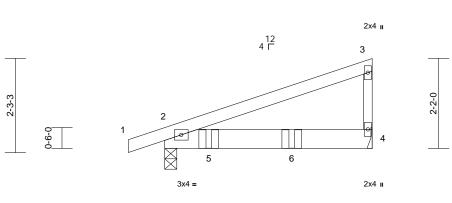


Job	Truss	Truss Type	Qty	Ply	Lot 21 OS		
Lot 21 OS	J5	Jack-Closed Girder	2	1	Job Reference (optional)	147536633	

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HUS26

HUS26

5-0-0

Scale = 1:27.8

Scale = 1.27.0												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.06	2-4	>910	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.12	2-4	>488	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.05	2-4	>999	240	Weight: 17 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x6 SPF No.2 2x3 SPF No.2 Structural wood she 5-0-0 oc purlins, ex Rigid ceiling directly bracing.	cept end verticals.	9) In the LOAD of the truss LOAD CASE(S 1) Dead + Rc ed or Plate Incre Uniform Lo c Vert: 1-3	oof Live (balance ase=1.15	on, loads a nt (F) or ba	pplied to the ck (B).	face					
	(lb/size) 2=956/0-3 Max Horiz 2=82 (LC Max Uplift 2=-210 (L	,		-556 (B), 6=-556	δ (B)						ILE OF	MISS
FORCES	(lb) - Maximum Com Tension	,, , , ,								11	JU,	AN P

TOP CHORD 1-2=0/12, 2-3=-70/43, 3-4=-159/73 BOT CHORD 2-4=-25/19

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior 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.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 4 and 210 lb uplift at joint 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.
- 7) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-0-12 from the left end to 3-0-12 to connect truss(es) to back face of bottom chord.

16952 BOCONAL ENGLISH August 20,2021



GARCIA

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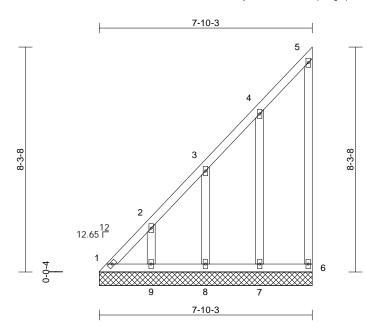
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Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	LAY1	Lay-In Gable	2	1	Job Reference (optional)	147536634

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Page: 1



Scale = 1:42.5

		i											
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.44	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.10	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-P							Weight: 42 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood shee 6-0-0 oc purlins, exi Rigid ceiling directly bracing. (lb/size) 1=53/7-10 9=180/7-1 9=180/7-1 Max Horiz 1=310 (LC Max Uplift 1=-122 (L 9=-123 (LC Max Grav 1=243 (LC 	applied or 10-0-0 oc 0-3, 6=63/7-10-3, 10-3, 8=180/7-10-3, 10-3 C 5) C 6), 6=-104 (LC 7), C 8), 8=-126 (LC 8), C 8)	8) 9) LC	This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an Provide mech bearing plate joint 1, 104 lk lb uplift at join This truss is International	spaced at 2-0-0 oc s been designed for donoconcurrent v has been designed n chord in all areas by 2-00-00 wide wil by other members. hanical connection to capable of withsta o uplift at joint 6, 12 nt 8 and 127 lb upl designed in accord Residential Code and referenced stan Standard	or a 10.0 vith any for a liv s where I fit betw (by oth anding 1 23 lb up ift at join dance w sections	other live load e load of 20.0 a rectangle veen the botto ers) of truss to 22 lb uplift at lift at joint 9, 1 nt 7. th the 2018 & R502.11.1 a	0psf om 0 26			111 * Ph	JUA GAR NUMI D. E-20001	
FORCES	(lb) - Maximum Com Tension	pression/Maximum									1	AS .	
TOP CHORD	1-2=-338/227, 2-3=- 4-5=-188/129, 5-6=-	101/118	46,									MON/ON/	ALEIN
BOT CHORD	1-9=-111/84, 8-9=-1 6-7=-111/84	11/84, 7-8=-111/84,										ann	11111
WEBS	2-9=-163/147, 3-8=-	163/150, 4-7=-171/15	53									MAIN	GARC
NOTES												N 30.00	NO
Vasd=91 II; Exp C; cantilever right expo 2) Truss det only. For see Stan- or consul 3) All plates	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed osed; Lumber DOL=1.6 signed for wind loads in studs exposed to wind dard Industry Gable En- t qualified building desig are 2x4 MT20 unless c quires continuous bottor	DL=6.0psf; h=25ft; C velope) exterior zone ; end vertical left and 0 plate grip DOL=1.6 the plane of the trus; (normal to the face), d Details as applicabl gner as per ANSI/TPI therwise indicated.	e; I O S Ie,								THINK .	HORESSION	952

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

August 20,2021

Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	LAY2	Lay-In Gable	2	1	Job Reference (optional)	147536635

Run: 8.43 S Jul 29 2021 Print: 8.430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:26

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Wheeler Lumber, Waverly, KS - 66871,

ID:NgOuzAbhVr82Lf5YxQT7IBymfBG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 0-3-4 H 0-3-4 11-3-6 20-10-3 11-0-2 9-6-13 13⁄ 12 10 9 3x4 8 21-11-15 4-8 μċ 5 16 8-5-4 8-5-4 ⊔12.65 12 12.65¹² 18 ***** 21 20 19 23 22 2 3x4 🎣 3x4 🚅 12-10-2 20-10-3 H 12-10-2 8-0-1

Scale = 1:104.4

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20 ²	18/TPI2014	CSI TC BC WB Matrix-S	0.10 0.03 0.18	Vert(TL)	in n/a n/a 0.00	(loc) - - 16	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 183 lb	GRIP 197/144 FT = 10%	5
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 5-4-5 oc purlins, ex Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 15 1 Row at midpt (lb/size) 1=53/20- 15=136/2 17=180/2	-16,14-15. 13-14, 6-21, 8-20, 9- 10-17, 11-16, 12-15 10-3, 14=17/20-10-3, 0-10-3, 16=189/20-1(0-10-3, 18=175/20-1(B I or 18, 18, 0-3, N 0-3, 1	BOT CHORD VEBS IOTES) Wind: ASCE	1-2=-1236/471, 2-3 3-4=-994/380, 4-5= 6-8=-620/241, 8-9= 10-11=-246/108, 1 12-13=-32/13, 13-' 1-25=0/0, 24-25=0 21-22=0/0, 20-21= 18-19=-6/23, 17-18 15-16=-30/28, 14-' 2-25=-157/139, 3-2 4-23=-163/148, 5-2 6-21=-163/148, 8-2 9-18=-163/148, 10 11-16=-172/156, 1 E 7-16; Vult=115mp h; TCDL=6.0psf; B	870/32 495/19 1-12=-1 14=-18/' /0, 23-2 0/0, 19- 33=-28/30 15=-21/2 24=-164 22=-163 20=-163 -17=-16 2-15=-1 h (3-see	34, 5-6=-745/2 5, 9-10=-370 15/67, 19 4=0/0, 22-23= 20=0/0, , 16-17=-29/2 3 //148, //148, //148, 2/147, 19/107 cond gust)	/149, =0/0, 29,	surf 10) This Inte	ace with truss is rnationa 2.10.2 a	n truss s desig Il Resid and ref	him required to p chord at joint(s) 1 ned in accordanc dential Code sect erenced standard	14, 18, 17, 1 e with the 2 ions R502.1 J ANSI/TPI	16, 15. 2018 11.1 and
FORCES	21=181/2 23=180/2 25=180/2 25=180/2 25=180/2 25=180/2 1=877 (LC 1=877 (LC 15=-82 (L 17=-123 (20=-128 (22=-124 (24=-125 (15=151 (L 17=203 (L 15=151 (L 17=203 (L 19=19 (LC 21=204 (L)	C 8) C 6), 14=-22 (LC 8), C 6), 16=-132 (LC 8) LC 8), 18=-128 (LC 8) LC 8), 21=-124 (LC 8) LC 8), 23=-124 (LC 8) LC 8), 25=-124 (LC 8) C 8), 14=21 (LC 15), LC 15), 16=213 (LC 1) C 3), 20=196 (LC 15), LC 15), 22=203 (LC 1) LC 15), 24=203 (LC 1) LC 15), 24=203 (LC 1) LC 15))-3,)-3, 2), 3), 4), 5) 6 5), 7 5), 7	 II; Exp C; El cantilever le plate grip D Truss desig only. For st see Standar or consult q All plates ar Gable requi Gable studs This truss h chord live lc * This truss on the botto 3-06-00 tall chord and a Provide men bearing plat 14, 300 lb u uplift at joint joint 22, 122 128 lb uplift 	nclosed; MWFRS (ft and right expose	envelope d; Luml in the pl d (norm nd Deta signer a otherwi om choi c. or a 10. with any for a liv s where ll fit betw anding 2 b uplift at j	e) exterior zor ber DOL=1.60 ane of the tru: al to the face ills as applical s per ANSI/TF ise indicated. rd bearing. 0 psf bottom other live loa re load of 20.0 a rectangle ween the bottor 22 lb uplift at joint 25, 126 , 124 lb uplift at joint 25, 127 , 124 lb uplift at joint 17, 132 lb	ne; ss), ble, Pl 1. ds.)psf om o ont 5 lb at 20,			Phone and a statement of the statement o		ARCIA NSEO	TINEER TIT TIMEER

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

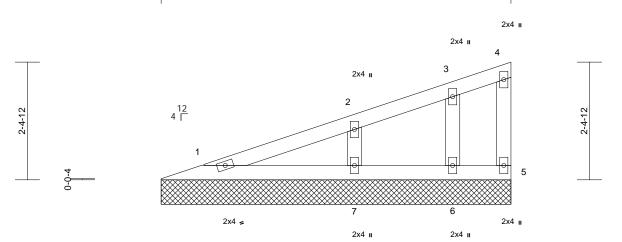
> MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

August 20,2021

Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	V1	Valley	2	1	Job Reference (optional)	147536636

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Page: 1



7-1-8

Scale = 1:23.5				7-1-8								
Loading	(psf)	Spacing	2-0-0	CSI	0.40	DEFL	in	(loc)	l/defl	L/d	PLATES	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	
TCDL BCLL	10.0 0.0*	Lumber DOL Rep Stress Incr	1.15 YES	BC WB	0.06 0.03	Vert(TL) Horiz(TL)	n/a 0.00	- 5	n/a n/a	999 n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P	0.03		0.00	5	ıı/a	n/a	Weight: 20 lb	

uplift at joint 6.

LOAD CASE(S) Standard

8)

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 1, 9 lb uplift at joint 5, 69 lb uplift at joint 7 and 25 lb

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.

LUM	BE	R
TOD	~	

LOWIDER		
TOP CHORD	2x4 SPF I	No.2
BOT CHORD	2x4 SPF I	No.2
WEBS	2x4 SPF I	No.2
OTHERS	2x4 SPF I	No.2
BRACING		
TOP CHORD	Structural	wood sheathing directly applied or
	6-0-0 oc p	ourlins, except end verticals.
BOT CHORD	Rigid ceili	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(lb/size)	1=112/7-1-8, 5=40/7-1-8,
		6=108/7-1-8, 7=290/7-1-8
	Max Horiz	1=91 (LC 5)
	Max Uplift	1=-6 (LC 4), 5=-9 (LC 5), 6=-25 (LC
		8), 7=-69 (LC 8)
FORCES	(lb) - Max	imum Compression/Maximum
	Toncion	

Tension TOP CHORD 1-2=-69/41, 2-3=-55/13, 3-4=-37/18, 4-5=-31/14 BOT CHORD 1-7=-29/22, 6-7=-29/22, 5-6=-29/22

2-7=-225/108, 3-6=-84/40 WEBS NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 2) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

3) Gable requires continuous bottom chord bearing.

- 4) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 5) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 6) on the bottom chord in all areas where a rectangle
- 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

MIS 0 Wint PRUM JUAN GARCIA NUMBER E-2000162101 C /ONALL JUAN GARC, ICENSE 160

GRIP

197/144

FT = 10%



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August 20,2021

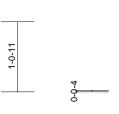
Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	V2	Valley	2	1	Job Reference (optional)	147536637

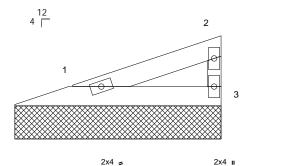
Run: 8,43 S Jul 29 2021 Print: 8,430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:27 ID:Lv5Kh_rQRuc3iiNgWkjbWVymf1v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2x4 II

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2x4 II



3-1-6	

3-1-6

Scale = 1:17.4												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 7 lb	FT = 10%

International Residential Code sections R502.11.1 and

8) This truss is designed in accordance with the 2018

R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

- LUMBER
- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 3-2-2 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS (lb/size) 1=96/3-1-6, 3=96/3-1-6 Max Horiz 1=32 (LC 7) Max Uplift 1=-16 (LC 4), 3=-20 (LC 8) FORCES (lb) - Maximum Compression/Maximum Tension 1-2=-29/19, 2-3=-75/33 TOP CHORD

BOT CHORD

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 2) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

Gable requires continuous bottom chord bearing. 3)

1-3=-10/8

- Gable studs spaced at 4-0-0 oc. 4)
- This truss has been designed for a 10.0 psf bottom 5) chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to 7) bearing plate capable of withstanding 16 lb uplift at joint 1 and 20 lb uplift at joint 3.



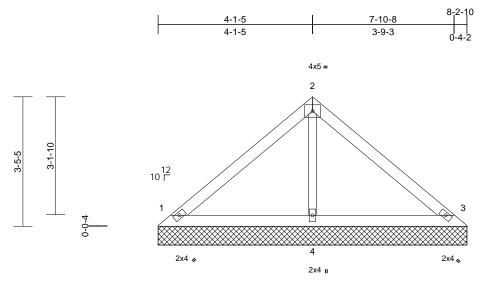


16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	V3	Valley	2	1	Job Reference (optional)	147536638

Run: 8,43 S Jul 29 2021 Print: 8,430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:27 ID:Lv5Kh_rQRuc3iiNgWkjbWVymf1v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





8-2-10

Scale - 1:30.6

Scale = 1:30.6													
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.26	Vert(LL)	n/a	-	n/a	999	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a			
BCDL	10.0	Code	IRC2018/TF	PI2014 Matrix-P							Weight: 23 lb	FT = 10%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing.	0 7 11	be 1 9) Ti In ed or R LOAE	ovide mechanical co paring plate capable and 51 lb uplift at joir his truss is designed ternational Residenti 802.10.2 and referen CASE(S) Standard	of withstanding 4 nt 3. in accordance w al Code sections ced standard AN	2 lb uplift at ith the 2018 8 R502.11.1 a	joint						
REACTIONS	(lb/size) 1=202/8-2 4=267/8-2 Max Horiz 1=-81 (LC Max Holift 1=-42 (LC	2 4)								3	ATE OF	MISSO	

	Max Uplift 1=-42 (LC 8), 3=-51 (LC 9)								
FORCES	(lb) - Maximum Compression/Maximum								
	Tension								
TOP CHORD	1-2=-141/70, 2-3=-135/55								
BOT CHORD	1-4=-18/67, 3-4=-18/67								
WEBS	2-4=-173/42								

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing. 4)
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 7) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



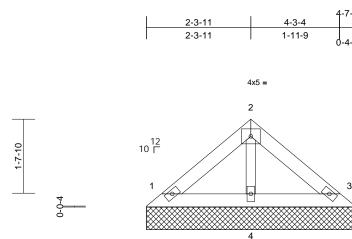
JUAN



Job	Truss	Truss Type	Qty	Ply	Lot 21 OS	
Lot 21 OS	V4	Valley	2	1	Job Reference (optional)	147536639

Run: 8,43 S Jul 29 2021 Print: 8,430 S Jul 29 2021 MiTek Industries, Inc. Thu Aug 19 14:44:27 ID:Lv5Kh_rQRuc3iiNgWkjbWVymf1v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



2x4 🖌

2x4 🛛

4-7-6

2x4 💊

- 1·25.5 S

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-P							Weight: 12 lb	FT = 10%
BOT CHORD OTHERS BRACING TOP CHORD	2x4 SPF No.2 2x3 SPF No.2 Structural wood she 4-8-0 oc purlins.	0 7 11	L	This truss is Internationa	uplift at joint 3. designed in acc I Residential Co and referenced s Standard	de sections	R502.11.1 a	and					
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	C										n
REACTIONS (lb/size) 1=105/4-7-6, 3=105/4-7-6, 4=138/4-7-6												VL'OF	MISS

		4=138/4-7-6
	Max Horiz	1=-42 (LC 4)
	Max Uplift	1=-22 (LC 8), 3=-27 (LC 9)
FORCES	(lb) - Maxir	mum Compression/Maximum
	Tension	
TOP CHORD	1-2=-73/36	6, 2-3=-70/28
BOT CHORD	1-4=-9/35,	3-4=-9/35
WEBS	2-4=-90/22	2

1-11-5

WEBS

- NOTES
- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing. 4)
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.





