



RE: RR117 Lot 117 RR

Site Information:

Customer: Project Name: RR117 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 82 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	148527889	A1	10/27/2021	21	148527909	D6	10/27/2021
2	148527890	A2	10/27/2021	22	l48527910	E1	10/27/2021
3	l48527891	A3	10/27/2021	23	l48527911	E2	10/27/2021
4	l48527892	A4	10/27/2021	24	l48527912	E3	10/27/2021
5	148527893	B1	10/27/2021	25	l48527913	E4	10/27/2021
6	148527894	B2	10/27/2021	26	l48527914	G1	10/27/2021
7	148527895	B3	10/27/2021	27	l48527915	G2	10/27/2021
8	148527896	B4	10/27/2021	28	l48527916	H1	10/27/2021
9	148527897	C1	10/27/2021	29	l48527917	H2	10/27/2021
10	148527898	C2	10/27/2021	30	l48527918	H3	10/27/2021
11	148527899	C3	10/27/2021	31	l48527919	H4	10/27/2021
12	148527900	C4	10/27/2021	32	148527920	H5	10/27/2021
13	I48527901	C5	10/27/2021	33	l48527921	H6	10/27/2021
14	148527902	C6	10/27/2021	34	148527922	J1	10/27/2021
15	148527903	C7	10/27/2021	35	148527923	J2	10/27/2021
16	148527904	D1	10/27/2021	36	148527924	J3	10/27/2021
17	148527905	D2	10/27/2021	37	148527925	J4	10/27/2021
18	148527906	D3	10/27/2021	38	148527926	J5	10/27/2021
19	148527907	D4	10/27/2021	39	148527927	J6	10/27/2021
20	148527908	D5	10/27/2021	40	148527928	J7	10/27/2021

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

based on the parameters provided by 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

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



RE: RR117 - Lot 117 RR

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

Site Information:

Lot/E Addr	ect Customer: Block: ess: County:	Project Name: RF	R117
No.	Seal#	Truss Name	Date
41	148527929	J8	10/27/2021
42	148527930	J9	10/27/2021
43	l48527931	J10	10/27/2021
44	148527932	J11	10/27/2021
45	148527933	J12	10/27/2021
46	148527934	J13	10/27/2021
47	148527935	J14	10/27/2021
48	148527936	J15	10/27/2021
49	148527937	J16	10/27/2021
50	148527938	J17	10/27/2021
51	148527939	J18	10/27/2021
52	148527940	J19	10/27/2021
53	148527941	J20	10/27/2021
54	148527942	J21	10/27/2021
55	148527943	J22	10/27/2021
56	148527944	J23	10/27/2021

Subdivision:

State:

46	148527934	J13	10/27/2021
47	148527935	J14	10/27/2021
48	148527936	J15	10/27/2021
49	148527937	J16	10/27/2021
50	148527938	J17	10/27/2021
51	148527939	J18	10/27/2021
52	148527940	J19	10/27/2021
53	I48527941	J20	10/27/2021
54	148527942	J21	10/27/2021
55	148527943	J22	10/27/2021
56	148527944	J23	10/27/2021
57	148527945	J24	10/27/2021
58	148527946	J25	10/27/2021
59	148527947	J26	10/27/2021
60	148527948	J27	10/27/2021
61	148527949	K1	10/27/2021
62	148527950	K2	10/27/2021
63	I48527951	K3	10/27/2021
64	148527952	K4	10/27/2021
65	148527953	LAY1	10/27/2021
66	148527954	LAY2	10/27/2021
67	148527955	LAY3	10/27/2021
68	148527956	LAY4	10/27/2021
69	148527957	LAY5	10/27/2021
70	148527958	LAY6	10/27/2021
71	148527959	LAY7	10/27/2021
72	148527960	LAY8	10/27/2021
73	I48527961	V1	10/27/2021
74	148527962	V2	10/27/2021
75	148527963	V3	10/27/2021
76	148527964	V4	10/27/2021
77	148527965	V5	10/27/2021
78	148527966	V6	10/27/2021
79	148527967	V7	10/27/2021
80	148527968	V8	10/27/2021
81	148527969	V9	10/27/2021
82	148527970	V10	10/27/2021



RE: RR117 Lot 117 RR

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Customer: Project Name: RR117 Lot/Block: Address: City:

Model: Subdivision: State:

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

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Roof Load: 45.0 psf

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

This package includes 82 individual, dated Truss Design Drawings and 0 Additional Drawings.

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19	148527907	D4	10/27/2021	39	148527927	J6	10/27/2021
20	148527908	D5	10/27/2021	40	148527928	J7	10/27/2021

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

based on the parameters provided by 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: RR117 - Lot 117 RR

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

Site Information:

Lot/E Addr	ect Customer: Block: ess: County:	Project Name: RF	R117
No.	Seal#	Truss Name	Date
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42	148527930	J9	10/27/2021
43	l48527931	J10	10/27/2021
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51	148527939	J18	10/27/2021
52	148527940	J19	10/27/2021
53	148527941	J20	10/27/2021
54	148527942	J21	10/27/2021
55	148527943	J22	10/27/2021
56	148527944	J23	10/27/2021

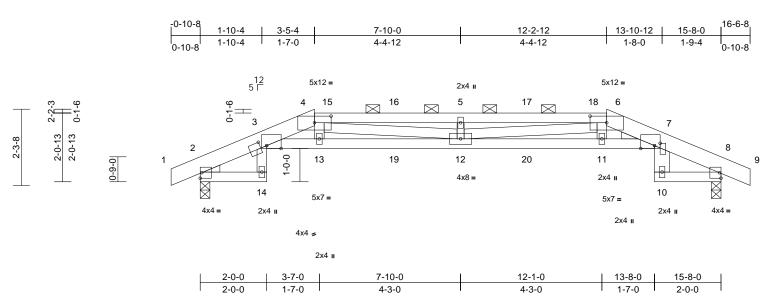
Subdivision:

State:

46	148527934	J13	10/27/2021
47	148527935	J14	10/27/2021
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80	148527968	V8	10/27/2021
81	148527969	V9	10/27/2021
82	148527970	V10	10/27/2021

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	A1	Hip Girder	1	2	Job Reference (optional)	148527889

Run: 8.43 E Jul 16 2021 Print: 8.430 E Jul 16 2021 MiTek Industries, Inc. Wed Oct 27 12:56:39 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-vXP5RNhaWID_20B33Xzp5t56sF9KlvHu1nDiSryPN9e



Scale = 1:34.7

Plate Offsets (X, Y): [3:0-5-3,Edge], [3:0-2-5,0-2-5], [4:0-6-0,0-2-6], [6:0-6-0,0-2-6], [7:0-4-15,Edge], [7:0-0-14,0-2-1]

	, , , , , , [oio o o,⊇ago],	[=== = =,= = 0]; [,, [: 0,0 <u>-</u> 0	.,, [.,	,. = .]						
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 NO	0/5010044	CSI TC BC WB	0.66 0.61 0.14	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.18 -0.35 0.23	(loc) 12 12 8	l/defl >998 >525 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S	-	Wind(LL)	0.18	12	>999	240	Weight: 118 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD	2x6 SPF No.2 *Exce 2x4 SPF No.2 2x4 SPF No.2 *Exce 5-12:2x3 SPF No.2 Left: 2x3 SPF No.2 Right: 2x3 SPF No.2 Structural wood she	pt* 7-10:2x6 SPF Nr	o.2, 3) 4)	except if note CASE(S) see provided to c unless other Unbalanced this design. Wind: ASCE	considered equa ad as front (F) or ction. Ply to ply co listribute only loa wise indicated. roof live loads ha 7-16; Vult=115m n; TCDL=6.0psf; I	back (B) onnection ds noted ive been oph (3-sec	face in the LC s have been as (F) or (B), considered fo cond gust)	DAD or	pro lb d at 3 dow 9-1(165 75 l up a	vided su own and 3-10-0, 7 /n and 4 D-0, and Ib down b down at 3-10-	fficient d 96 lb 75 lb do 2 lb up 72 lb n and 9 and 3 0, 32 l	up at 3-5-4,72 li own and 42 lib up at 7, 10-0, 75 lib down and 43 lib u 26 lib up at 12-2-1 lib up at 3-5-4, 32 b down and 45 lib	ntrated load(s) 165 down and 43 lb up at / \$-10.07 75 lb down and 42 lb up at at 11-10.00 and 2 on top choid, and 1b down and 15 lb up at 5-10-0, 32 lb
	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (5-6-5 max.): 4-6.				closed; MWFRS t and right expos d; Lumber DOL=	ed ; end v 1.60 plate	vertical left an grip DOL=1.	id 60	9-1 lb d	0-0, and own and	32 lb 3 3 lb	down and 15 lb u p at 12-2 0 on b	down and 15 lb up at p at 11-10-0, and 75 oftom chord. The
BOT CHORD Rigid ceiling directly applied or 10-0 oc bracing. REACTIONS (lb/size) 2=1002/0-3-8, 8=1002/0-3-8 Max Horiz 2=-31 (LC 13) Max Uplift 2=-218 (LC 4), 8=-218 (LC 5) Max Grav 2=1002 (LC 21), 8=1002 (LC 22)			5) 6) 7)	This truss ha chord live loa * This truss h on the bottor	quate drainage to s been designed ad nonconcurrent nas been designe n chord in all are ov 2-00-00 wide v	for a 10. with any d for a liv as where) psf bottom other live loa e load of 20.0 a rectangle	ids. Opsf	resp LOAD (1) De Pla	consibili CASE(S ead + Ro ate Incre	ty of ot) Stat oof Live ease=1	hers. ndard e (balanced)) Aug .15	idevioe(s), is the berthcrease=1.15,
FORCES	(lb) - Max. Comp./Ma (lb) or less except w 2-3=-536/138, 3-4=-	hen shown.		3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 218 lb uplift at					Uniform Loads (lb/ft) Vert: 1-4=-70, 4-6=-70, 6-9=-70, 2-14=-20, 3-7=-20, 8-10=-20 Concentrated Loads (lb)				
	4-15=-4577/1068, 15 5-16=-4577/1068, 5- 17-18=-4577/1068, 6 6-7=-3423/769, 7-8=	5-16=-4577/1068, 17=-4577/1068, 6-18=-4577/1068, 543/129	9)	joint 2 and 2 This truss is International	18 lb uplift at join designed in acco Residential Code nd referenced sta	t 8. ordance w e sections	ith the 2018 R502.11.1 a		Co			()	
BOT CHORD	3-13=-726/3430, 13- 12-19=-717/3444, 12 11-20=-720/3439, 7-	2-20=-720/3439, -11=-725/3411	1(rlin representatio ation of the purlin I.			size				JUAN CE	ARCIA
WEBS	4-12=-307/1156, 5-1 6-12=-308/1161	2=-313/148,									1		0
(0.131"x3") Top chords staggered	to be connected togei) nails as follows: s connected as follows at 0-9-0 oc, 2x4 - 1 ro ords connected as follows	s: 2x6 - 2 rows w at 0-9-0 oc.									THINK.	PHO	SAS NULL

Web connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x3 - 1 row at 0-9-0 oc.

October 27,2021

Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	A1	Hip Girder	1	2	Job Reference (optional)	148527889

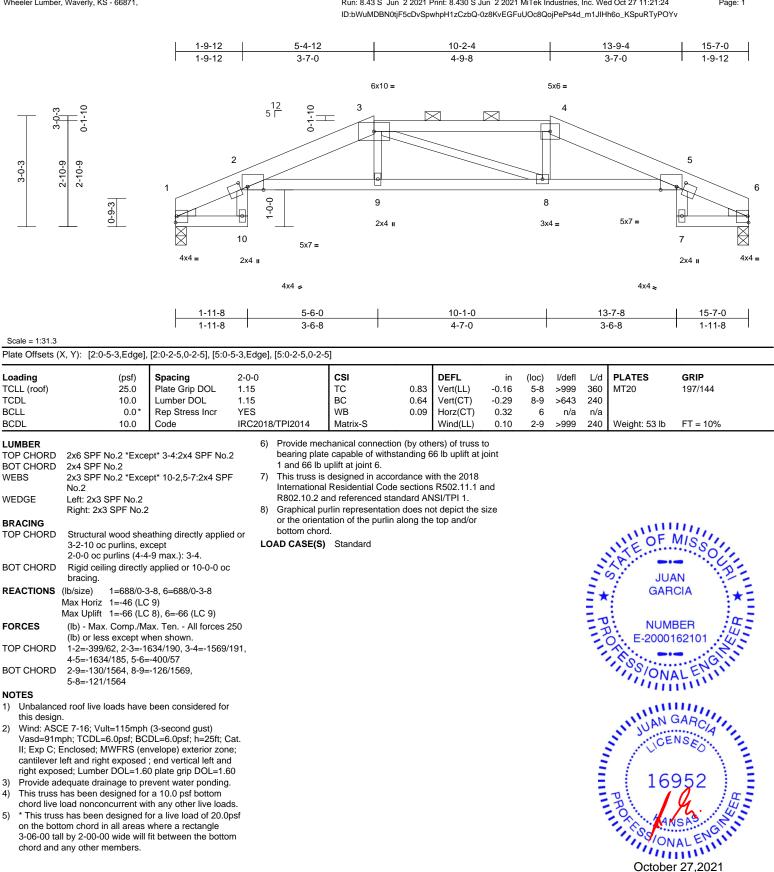
Vert: 4=-41 (F), 6=-41 (F), 13=-107 (F), 12=-32 (F), 5=-17 (F), 11=-107 (F), 15=-17 (F), 16=-17 (F), 17=-17 (F), 18=-17 (F), 19=-32 (F), 20=-32 (F) Run: 8.43 E Jul 16 2021 Print: 8.430 E Jul 16 2021 MiTek Industries, Inc. Wed Oct 27 12:56:39 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-vXP5RNhaWID_20B33Xzp5t56sF9KlvHu1nDiSryPN9e Page: 2



Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	A2	Нір	1	1	Job Reference (optional)	148527890

Run: 8 43 S. Jun. 2 2021 Print: 8 430 S. Jun. 2 2021 MiTek Industries. Inc. Wed Oct 27 11:21:24 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-0z8KvEGFuUOc8QojPePs4d_m1JIHh6o_KSpuRTyPOYv

Page: 1



Provide adequate drainage to prevent water ponding. 3) 4) 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 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.

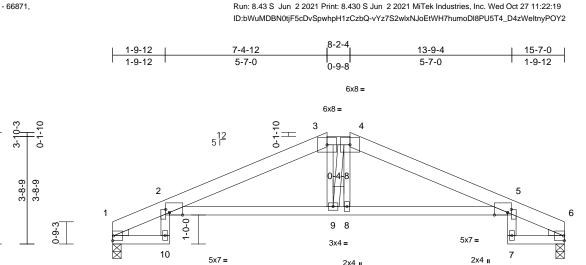
MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

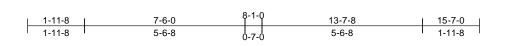
October 27,2021

GIT

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	A3	Нір	1	1	Job Reference (optional)	148527891

3-10-3





Scale = 1:39.7

Plate Offsets (X, Y): [2:0-5-7,Edge], [2:0-1-4,0-1-9], [5:0-5-7,Edge], [5:0-1-4,0-1-9]

4x4 =

2x4 II

2x4 II

			, , ,									
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	0.88	Vert(LL)	-0.21	2-9	>879	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.39	2-9	>470	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.41	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.15	2-9	>999	240	Weight: 56 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD	2x6 SPF No.2 *Exce 2x4 SPF No.2 2x3 SPF No.2 *Exce No.2 Left: 2x3 SPF No.2 Right: 2x3 SPF No.2 Structural wood she	pt* 10-2,5-7:2x4 SP athing directly applie	2 bearing pla 1 and 84 lb F 7) This truss i Internation: R802.10.2 8) Graphical p or the orier bottom choose		standing 8 ordance w e sections andard AN on does no	i4 lb uplift at j ith the 2018 is R502.11.1 a ISI/TPI 1. ot depict the s	joint and				UNIT OF	MISSO
BOT CHORD	2-2-0 oc purlins, except LOAD CASE(S) Standard 2-0-0 oc purlins (4-6-10 max.): 3-4.											
	(lb/size) 1=688/0-3 Max Horiz 1=61 (LC Max Uplift 1=-84 (LC									E*	GAR	CIA
FORCES	(lb) - Max. Comp./Ma (lb) or less except w		250								NUM	• 41.
TOP CHORD	1-2=-399/84, 2-3=-1 4-5=-1318/115, 5-6=	312/118, 3-4=-1222/	143,							1		- Chi
BOT CHORD	2-9=-76/1214, 8-9=-	42/1223, 5-8=-45/12	20								S/ONI	NEPIN
WEBS	3-9=-115/294										1111	in
NOTES												
this desigr	ed roof live loads have n. CE 7-16; Vult=115mph										IN UAN	GARCIA
Vasd=91rr II; Exp C; I cantilever right expos 3) Provide ac 4) This truss	ph; TCDL=6.0ps; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 Jequate drainage to pr has been designed for	DL=6.0psf; h=25ft; (ivelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 event water ponding r a 10.0 psf bottom	e; d 50							ATTINA STATE	I LICE	952 E

 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. October 27,2021

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 **ANSUTPI1 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 Page: 1

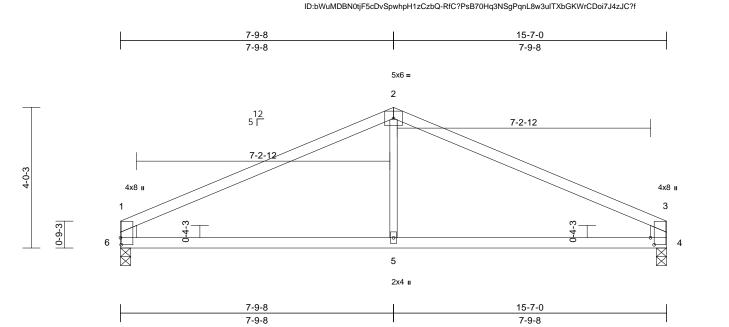
4x4 =

2x4 🛛

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	A4	Common	1	1	Job Reference (optional)	148527892

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Oct 26 12:47:32

Wheeler Lumber, Waverly, KS - 66871,



Scale = 1:32.9	
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Plate Offsets (X, Y): [1:0-2-6,0-0-4], [3:0-2-6,0-1-4]

	1, 1, 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	0.86	Vert(LL)	-0.07	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.16	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.03	5-6	>999	240	Weight: 41 lb	FT = 10%

- LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x6 SPF No.2 *Except* 5-2:2x3 SPF No.2 WEBS 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. REACTIONS (lb/size) 4=681/0-3-8, 6=681/0-3-8 Max Horiz 6=-37 (LC 9) Max Uplift 4=-86 (LC 9), 6=-86 (LC 8) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-928/114, 2-3=-928/114, 1-6=-594/134, 3-4=-594/134 BOT CHORD 5-6=-44/758, 4-5=-44/758 WEBS 2-5=0/306

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 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 6 and 86 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

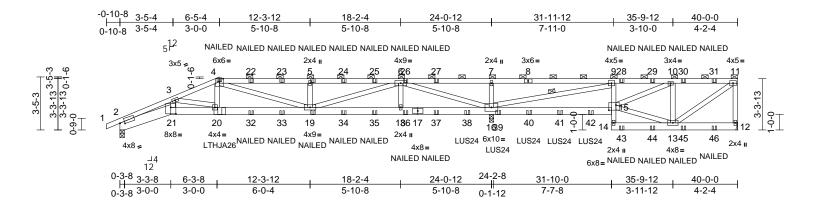


Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	B1	Half Hip Girder	1	2	Job Reference (optional)	148527893

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:33 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:74.6

Plate Offsets (X, Y): [2:0-3-8,0-2-1], [15:0-5-8,0-4-0], [21:0-4-0,0-5-0]

	X, Y): [2:0-3-8,0-2-1],	[15.0-5-6,0-4-0], [21	1.0-4-0,0-0	-0J									
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 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.85 0.45 0.83	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.36 0.13	(loc) 19-20 19-20 12 19-20	l/defl >999 >803 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 413 lb	GRIP 197/144 FT = 10%
	2x6 SP 2400F 2.0E DSS, 9-14:2x4 SPF 2x4 SPF No.2 Structural wood she 4-6-11 oc purlins, e 2-0-0 oc purlins (4-8 Rigid ceiling directly bracing. 1 Row at midpt (lb/size) 2=1803/0	No.2 athing directly applie xcept end verticals, i -15 max.): 4-11. applied or 10-0-0 oc 9-16 -3-8, 12=965/ Mecha 0-3-8, (req. 0-3-12) 7) C 4), 12=-86 (LC 4), LC 5) .C 1), 12=981 (LC 20 (LC 1) pression/Maximum 426, 3-4=-5142/321, -5060/188, -168/3108, -11=-956/115, -21=-428/5418, 8-19=-43/2163, -16=-246/1544,	P and N 1) anical, 2) 0), 3) 4) 5) 6)	OTES 2-ply truss to (0.131"x3") r Top chords oc. Bottom chorn staggered at oc, 2x4 - 1 rc Web connec All loads are except if not CASE(S) se provided to c unless other Unbalanced this design. Wind: ASCE Vasd=91mpi II; Exp C; Er and right exp Lumber DOL Provide adee This truss ha chord live loa * This truss I on the bottor 3-06-00 tall I chord and at WARNING: than input be	3-21=-92/1271, 3- 4-20=-52/1257, 4- 6-19=-191/3052, 6 6-16=-5551/184, 7 9-16=-4698/388, 1 10-15=-135/527, 1 11-13=-103/1138 b be connected tog hails as follows: connected as follows: connected as follows: connected as follows: considered equal ed as font (F) or t totion. Ply to ply co distribute only load wise indicated. roof live loads hav 7-16; Vult=115mp h; TCDL=6.0psf; E loclosed; MWFRS (oosed; end vertica =1.60 plate grip D quate drainage to as been designed ad nonconcurrent has been designed m chord in all area by 2-00-00 wide w hy other members. Required bearing saring size. er(s) for truss to tr	19=0/54 -18=0/2' -16=-59 3-15=-8 0-13=-7 gether wi ws: 2x4 - bilows: 2 rows sta 4 - 1 row by applie- back (B) nnection ls noted we been of both (3-sec SCDL=6.1 envelope al left and OCL=1.60 prevent to for a 10.1 with any s where ill fit betw - size at jo	 a), 5-19=-785/. b), 5-19=-785/. c), 3/128, 3/889, 74/211, 5/128, 3/889, 74/211, 5/128, 3/889, 74/211, 5/128,	0 -0 DAD r Cat. eft d; J. ds. psf om	usir des 11) Pro bea 12, 12) Thia R8(13) Gra or t bott 14) Use Left to c 15) Use Tru 22- fror 16) Fill 17) "NA	ng ANSÍ igner sh vide me uring pla 102 lb u s truss is prnationa 22.10.2 uphical p he orien tom cho e Simpsi s Si or e 6-0 from t face o all nail f VILED" in 48"x3.2	(TTP1 1 i i nould vi chanic te capa pupilit at gamma and the capa pupilit at the capa truss (c to the capat truss (c to the capat truss (c to the capat truss (c to the capat trus)))	angle to grain for arify capadity of b al conpection (b) ble of withstandii joint 2 and 3191t ared in accordance tential Code sect erenced standard presentation doe of the purlin along b) the purlin along b) the fourt faces s) to (fourt faces t) to (fourt faces) t) to (fourt faces) t) to (fourt faces) s) to	earing surface. Where S of truss to by 36 b oplif at joint uplift at joint 16 with the 2018 ions R502.11.1 and TANSI/TPI 1. the top and/or C2THUA26 of 2 ply, 10 from the test the top and/or C2THUA26 of 2 ply, 10 from the test 10 dorder, 2-10d o o max. starting at o connect truss(es) to contact with lumber. 3") or 3-12d judines.

- WARNING: Required bearing size at joint(s) 16 greater 8) than input bearing size.
- 9) Refer to girder(s) for truss to truss connections.

Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev, 5/19/2020 BEFORE USE WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2/2/2/ BE-VRE 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 Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	B1	Half Hip Girder	1	2	Job Reference (optional)	148527893

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:33 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (lb/ft)

Vert: 1-4=-70, 4-11=-70, 2-21=-20, 15-21=-20, 12-14=-20

Concentrated Loads (lb)

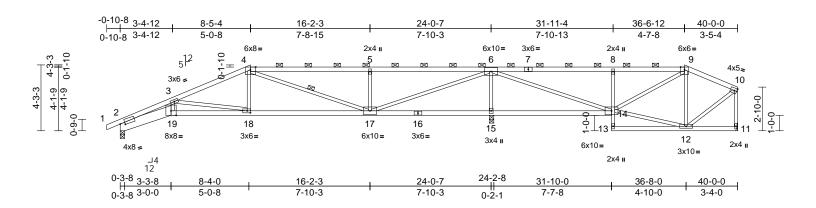
Vert: 4=97 (F), 22=-510 (F), 19=-87 (F), 5=-97 (F), 22=-97 (F), 23=-97 (F), 24=-97 (F), 25=-97 (F), 26=-97 (F), 27=-97 (F), 28=-126 (F), 29=-126 (F), 30=-126 (F), 31=-126 (F), 32=-87 (F), 33=-87 (F), 34=-87 (F), 35=-87 (F), 36=-87 (F), 37=-87 (F), 38=-253 (F), 39=-253 (F), 40=-253 (F), 41=-253 (F), 42=-253 (F), 43=-58 (F), 44=-58 (F), 45=-58 (F),



Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	B2	Нір	1	1	Job Reference (optional)	148527894

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:34 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:74.6

Plate Offsets (X, Y):	ate Offsets (X, Y): [2:0-3-8,0-2-1], [4:0-4-2,Edge], [18:0-2-8,0-1-8]												
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	0.83	Vert(LL)	-0.20	18-19	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.38	17-18	>759	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.13	15	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.11	18-19	>999	240	Weight: 150 lb	FT = 10%	

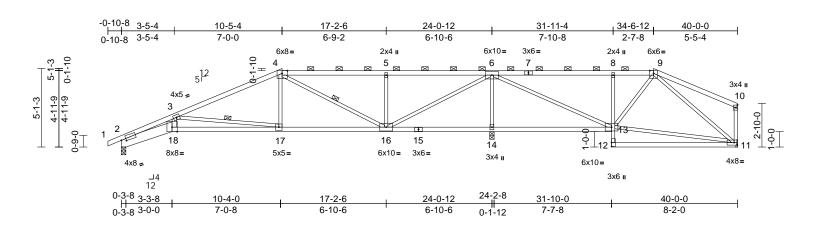
FORCES TOP CHORD BOT CHORD WEBS NOTES	8-13:2x3 SPF No.2 2x3 SPF No.2 Structural wood sheathing directly applied or 2-10-4 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-5 max.): 4-9. Rigid ceiling directly applied or 2-2-0 oc bracing. 1 Row at midpt 4-17 (lb/size) 2=984/0-3-8, 11=466/ Mechanical, 15=2199/0-3-8 Max Horiz 2=86 (LC 7) Max Uplift 2=-21 (LC 4), 11=-11 (LC 4), 15=-100 (LC 5) Max Grav 2=984 (LC 19), 11=509 (LC 20), 15=2199 (LC 1) (lb) - Maximum Compression/Maximum Tension 1-2=0/3, 2-3=-3580/80, 3-4=-1804/44, 4-5=-1218/95, 5-6=-1216/93, 6-8=-525/74, 8-9=-505/76, 9-10=-385/43, 10-11=-484/25 2-19=-140/3239, 18-19=-129/2963, 17-18=-59/1624, 15-17=-1176/52, 14-15=-1176/52, 13-14=0/84, 8-14=-471/113, 12-13=-20/25, 11-12=-29/22 3-19=0/1012, 3-18=-1345/128, 4-18=0/422, 4-17=-438/34, 5-17=-581/137, 6-17=-113/2539, 6-15=-2008/199, 6-14=-88/1679, 12-14=0/308, 9-14=-32/208, 9-12=-221/60, 10-12=0/398 ed roof live loads have been considered for	 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); 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 and any other members. 6) Refer to girder(s) for truss to truss connections. 7) This truss has been designed for allow the view of the bottom chord and any other members. 6) Refer to girder(s) for truss to truss connections. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 2, 11 lb uplift at joint 15. 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1. 10) 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
		October 27,2021



Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	B3	Нір	1	1	Job Reference (optional)	148527895

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:35 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:74.8

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

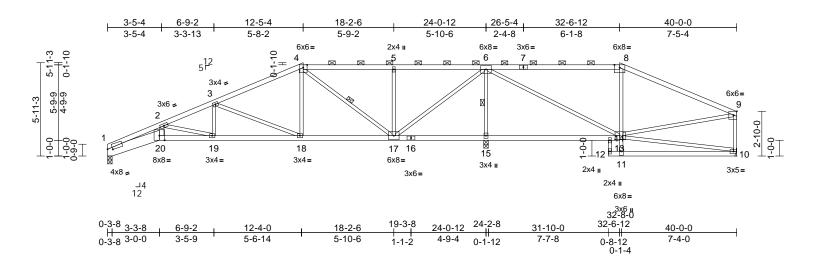
		-										
Loading (psf) TCLL (roof) 25.0 TCDL 10.0 BCLL 0.0* BCDL 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES IRC2018/TF		CSI TC BC WB Matrix-S	0.88 0.96 0.83	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.45 0.15	(loc) 17-18 17-18 14 17-18	l/defl >999 >632 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 156 lb	GRIP 197/144 FT = 10%
8-12:2x3 SPF No.2 WEBS 2x3 SPF No.2 *Exce BRACING Structural wood she TOP CHORD Structural wood she except end verticals (6-0-0 max.): 4-9. BOT CHORD BOT CHORD Rigid ceiling directly bracing. WEBS 1 Row at midpt REACTIONS (lb/size) 2=929/0- 14=2341/ Max Horiz 2=87 (LC Max Uplift 2=19 (LC 14=-92 (L Max Grav FORCES (lb) - Maximum Com Tension 1-2=0/3, 2-3=-3575/ 4-5=-580/88, 5-6=-5 8-9=-314/76, 9-10=- BOT CHORD 1-2=0/3, 2-3=-3575/ 4-5=-560/164, 14 13-14=-1293/49, 12 8-13=-442/105, 11-	3-17, 4-16 3-8, 11=379/ Mechanic (0-3-8, (req. 0-3-11) 7) C 8), 11=-13 (LC 9), C 5) C 19), 11=473 (LC 20), (LC 1) npression/Maximum (100, 3-4=-1357/42, 577/87, 6-8=-331/75, 116/55, 10-11=-202/48 -18=-125/2932, -16=-1293/49, -13=0/163, 12=0/69 -1771/188, 4-17=0/438 =-493/115, 4=-2161/188, 13=-39/227, =-333/25	 Vi II; ar 2 3) Pr 6) W 5) * 5) * 6) W cr cr cr cr dr dr<td>/asd=91mph l; Exp C; Enc and right exp C; Provide adeq This truss has shord live loa: This truss has shord live loa: This truss has shord live loa: This truss has shord and an VARNING: R VARNING: R VARNING: R Provide mech bearing at join sing ANSI/T designer shou pearing plate 2, 92 lb uplift This trus is a f802.10.2 an Graphical pur</td><td>er(s) for truss to tr nt(s) 2 considers Pl 1 angle to grai uld verify capacity nanical connection capable of withst at joint 14 and 13 Jesigned in accor Residential Code dr eferenced star lin representation tion of the purlin a</td><td>CDL=6.0 envelope al left and OCL=1.60 prevent ' for a 10.0 with any d for a liv s where ill fit betw size at jo uss conr parallel t n formula v of bearin h (by oth anding 1 b lb uplift dance w sections ndard AN h does nd</td><td>Dpsf; h=25ft; ;); cantilever right expos vater pondin 0 psf bottom other live loa e load of 20. a rectangle reen the bott int(s) 14 gre ections. o grain value a Building ng surface. ers) of truss 9 lb uplift at at joint 11. th the 2018 R502.11.1 is V/TPI 1. t depict the</td><td>left ed; g. ads. 0psf atom ater to joint</td><td></td><td></td><td></td><td>DO E-20001 SS/ONA LCE 169 S/ON</td><td>CIA BER 62101 LENO NSEO 52 SAS</td>	/asd=91mph l; Exp C; Enc and right exp C; Provide adeq This truss has shord live loa: This truss has shord live loa: This truss has shord live loa: This truss has shord and an VARNING: R VARNING: R VARNING: R Provide mech bearing at join sing ANSI/T designer shou pearing plate 2, 92 lb uplift This trus is a f802.10.2 an Graphical pur	er(s) for truss to tr nt(s) 2 considers Pl 1 angle to grai uld verify capacity nanical connection capable of withst at joint 14 and 13 Jesigned in accor Residential Code dr eferenced star lin representation tion of the purlin a	CDL=6.0 envelope al left and OCL=1.60 prevent ' for a 10.0 with any d for a liv s where ill fit betw size at jo uss conr parallel t n formula v of bearin h (by oth anding 1 b lb uplift dance w sections ndard AN h does nd	Dpsf; h=25ft; ;); cantilever right expos vater pondin 0 psf bottom other live loa e load of 20. a rectangle reen the bott int(s) 14 gre ections. o grain value a Building ng surface. ers) of truss 9 lb uplift at at joint 11. th the 2018 R502.11.1 is V/TPI 1. t depict the	left ed; g. ads. 0psf atom ater to joint				DO E-20001 SS/ONA LCE 169 S/ON	CIA BER 62101 LENO NSEO 52 SAS

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

October 27,2021

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	B4	Нір	1	1	Job Reference (optional)	148527896

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:35 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:73.2

2-0-0	0.01								
	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
DOL 1.15	тс	0.91	Vert(LL)	-0.15	19-20	>999	360	MT20	197/144
L 1.15	BC	0.87	Vert(CT)	-0.27	19-20	>999	240		
Incr YES	WB	0.84	Horz(CT)	0.11	15	n/a	n/a		
IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	19-20	>999	240	Weight: 159 lb	FT = 10%
0	OL 1.15 s Incr YES	OL 1.15 BC s Incr YES WB	OL 1.15 BC 0.87 s Incr YES WB 0.84	DL 1.15 BC 0.87 Vert(CT) s Incr YES WB 0.84 Horz(CT)	DL 1.15 BC 0.87 Vert(CT) -0.27 s Incr YES WB 0.84 Horz(CT) 0.11	DL 1.15 BC 0.87 Vert(CT) -0.27 19-20 s Incr YES WB 0.84 Horz(CT) 0.11 15	DL 1.15 BC 0.87 Vert(CT) -0.27 19-20 >999 s Incr YES WB 0.84 Horz(CT) 0.11 15 n/a	DL 1.15 BC 0.87 Vert(CT) -0.27 19-20 >999 240 s Incr YES WB 0.84 Horz(CT) 0.11 15 n/a n/a	DL 1.15 BC 0.87 Vert(CT) -0.27 19-20 >999 240 s Incr YES WB 0.84 Horz(CT) 0.11 15 n/a n/a

LUMBER			Wind: ASCE 7-16; Vult=115mph (3-second gust)
TOP CHORD	2x4 SPF No.2		Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
BOT CHORD	2x4 SPF No.2 *Except* 1-20:2x8 SP DSS,		II; Exp C; Enclosed; MWFRS (envelope); cantilever left
	14-12:2x3 SPF No.2		and right exposed; end vertical left and right exposed;
WEBS	2x3 SPF No.2 *Except* 20-2:2x4 SPF No.2		Lumber DOL=1.60 plate grip DOL=1.60
BRACING			Provide adequate drainage to prevent water ponding.
TOP CHORD	Structural wood sheathing directly applied or 2-10-11 oc purlins, except end verticals, and	,	This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
	2-0-0 oc purlins (3-2-14 max.): 4-8.		* This truss has been designed for a live load of 20.0psf
BOT CHORD	Rigid ceiling directly applied or 5-4-12 oc bracing.		on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom
WEBS	1 Row at midpt 4-17, 6-15		chord and any other members.
REACTIONS	(lb/size) 1=849/0-3-8, 10=369/ Mechanical, 15=2360/0-3-8, (reg. 0-3-11)		WARNING: Required bearing size at joint(s) 15 greater than input bearing size.
	Max Horiz 1=86 (LC 7)		Refer to girder(s) for truss to truss connections.
	Max Uplift 1=-16 (LC 8), 10=-29 (LC 9),		Bearing at joint(s) 1 considers parallel to grain value
	15=-72 (LC 5)		using ANSI/TPI 1 angle to grain formula. Building
	Max Grav 1=849 (LC 19), 10=485 (LC 20), 15=2360 (LC 1)	9)	designer should verify capacity of bearing surface. Provide mechanical connection (by others) of truss to
			bearing plate capable of withstanding 16 lb uplift at joint
FORCES	(lb) - Maximum Compression/Maximum Tension		1, 29 lb uplift at joint 10 and 72 lb uplift at joint 15.
TOP CHORD	1-2=-3259/106, 2-3=-1857/57, 3-4=-989/55,		This truss is designed in accordance with the 2018
IOP CHORD	4-5=-294/87, 5-6=-292/85, 6-8=-325/67,		International Residential Code sections R502.11.1 and
	8-9=-441/72, 9-10=-429/64		R802.10.2 and referenced standard ANSI/TPI 1.
BOT CHORD	1-20=-133/2940, 19-20=-121/2643,		Graphical purlin representation does not depict the size
	18-19=-42/1708, 17-18=-12/833,		or the orientation of the purlin along the top and/or bottom chord.
	15-17=-1087/59, 14-15=-1087/59,		
	13-14=-1062/88, 12-14=-343/0, 11-12=-84/0,	LOA	AD CASE(S) Standard
	10-11=-26/1		
WEBS	2-20=-7/934, 2-19=-966/81, 3-18=-933/100,		
	4-18=0/472, 4-17=-823/35, 5-17=-384/89,		
	6-17=-35/1607, 6-15=-2198/157,		
	0 40 0/4007 44 40 0/F44 0 40 400/40F		
	6-13=-6/1387, 11-13=0/544, 8-13=-492/105, 10-13=-9/60, 3-19=0/339, 9-13=-54/271		

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

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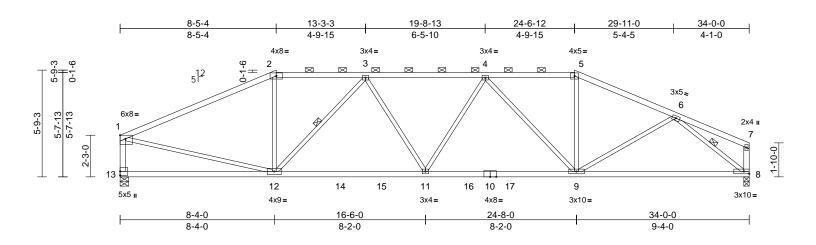
1X8 * PAOL

rss.



Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	C1	Нір	1	1	Job Reference (optional)	148527897

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:36 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:62.3

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

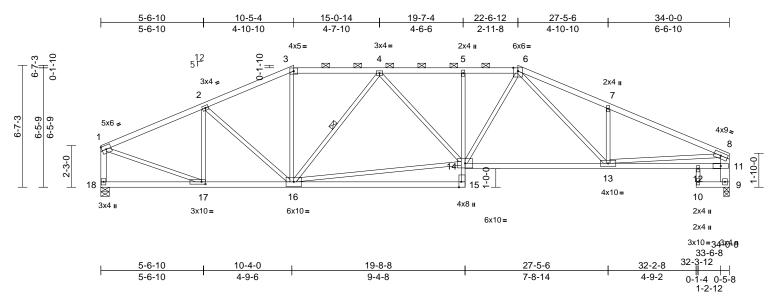
	,, i): [1:Eugo,o 2 o]					-							
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.89	Vert(LL)	-0.21	. ,	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.96	Vert(CT)	-0.37	11-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.97	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	IRC2018	/TPI2014	Matrix-S		Wind(LL)	0.11	11	>999	240	Weight: 128 lb	FT = 10%
		1					· · · ·					-	
LUMBER			,		s been designed								
TOP CHORD	2x4 SPF No.2 *Exce 1.8E	ept* 1-2:2x4 SPF 210			ad nonconcurrent as been designe								
BOT CHORD	2x4 SPF No.2 *Exce 1.8E	ept* 10-8:2x4 SPF 21	00F		n chord in all area by 2-00-00 wide v		0	om					
WEBS	2x3 SPF No.2 *Exce No.2	ept* 13-1,8-7:2x4 SP	F 6)		y other members								
BRACING					capable of withs		84 lb uplift a	t					na s
TOP CHORD	Structural wood she	athing directly applie	ed,		178 lb uplift at joir								
		, and 2-0-0 oc purlin		International	designed in acco Residential Code	e sections	R502.11.1 a	and				IN E OF	NISSO .
BOT CHORD	Rigid ceiling directly bracing.	applied or 2-2-0 oc	8)	Graphical pu	nd referenced sta rlin representatio	n does no	ot depict the	size			3	JUA	N
WEBS	1 Row at midpt	3-12, 6-8			tion of the purlin	along the	e top and/or				2.	GAR	
REACTIONS		-3-8, 13=1517/0-5-8		bottom chord							- *	:	:*=
	Max Horiz 13=-71 (L		LO	AD CASE(S)	Standard						-	÷	
	Max Uplift 8=-178 (L	C 5), 13=-184 (LC 4)								= 7	NUME	BER C
	Max Grav 8=1591 (I	LC 2), 13=1593 (LC 2	2)								-)	E-20001	62101 :00-
FORCES	(lb) - Maximum Com Tension	npression/Maximum									-	A	
TOP CHORD	1-2=-2167/297, 2-3=	1011/30/										1.05	ENGIN
	3-4=-2545/401, 4-5=	,										ONA	LLIN
	5-6=-2283/322, 6-7=	,											1111
	1-13=-1465/226, 7-8												un.
BOT CHORD	12-13=-51/159, 11-1	12=-339/2418,										11111	ARO
	9-11=-349/2482, 8-9											NUANC	AACIA
WEBS	,	12=0/529, 3-12=-837	,									N.CE	NSA .
	,	22/176, 4-9=-740/178	3,										SO
	5-9=-23/598, 6-9=0/	538, 6-8=-2039/327									-	UCE TOCE	A 2
NOTES											-	1.00	150
,	ed roof live loads have	been considered for	•								-	105	952
this design		(0									-	D:	1. 1. 5
	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC		Cot .									0.	4.14:
	Enclosed; MWFRS (er											AN	SAS
	left and right exposed											1,00	ENGIN
	sed; Lumber DOL=1.6											ON	ALLIN
	dequate drainage to pr											111	
		-										October	27,2021



Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	C2	Нір	1	1	Job Reference (optional)	148527898

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:37 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.3

Plate Offsets (X, Y): [15:0-3-8,Edge], [17:0-2-8,0-1-8]

	, , , , , [.e.e e e,_ege	, [-							
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	2)	Vasd=91mp	CSI TC BC WB Matrix-S : 7-16; Vult=115m h; TCDL=6.0psf; iclosed: MWFRS	BCDL=6.	0psf; h=25ft;	-0.55 0.10 0.13 Cat.	(loc) 15-16 15-16 9 13-14	l/defl >999 >738 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 145 lb	GRIP 197/144 FT = 10%
BOT CHORD WEBS	2x4 SPF No.2 *Exce 2x3 SPF No.2 *Exce 9-8:2x6 SPF No.2			cantilever le right expose	ft and right exposed; Lumber DOL=	èd ; end \ 1.60 plate	vertical left ar grip DOL=1.	nd 60					
BRACING TOP CHORD	Structural wood sheat 2-6-9 oc purlins, exc 2-0-0 oc purlins (3-7	cept end verticals, ar		This truss ha chord live lo * This truss	quate drainage to as been designed ad nonconcurrent has been designe	for a 10.0 with any d for a liv	0 psf bottom other live loa e load of 20.0	ids.					1997
	Rigid ceiling directly bracing. 1 Row at midpt	applied or 10-0-0 oc 4-16 -3-8, 18=1513/0-5-8 C 4)	6)	3-06-00 tall chord and a Provide med bearing plate joint 18 and	m chord in all area by 2-00-00 wide v ny other members chanical connectic e capable of withs 154 lb uplift at join designed in acco	vill fit betv s. on (by oth standing 1 nt 9.	veen the bott ers) of truss t 58 lb uplift at	to			*****	JUA GARG	
FORCES	(lb) - Maximum Com Tension	,. , ,	7)	Internationa	Residential Code	e sections	s R502.11.1 a	and			P	NUME	BER C
TOP CHORD	1-2=-1860/228, 2-3= 3-4=-1764/282, 4-5= 5-6=-2418/385, 6-7= 7-8=-2752/313, 1-18 9-11=-1448/168, 8-1	2403/384, 2731/387, =-1452/189,	8) L(Graphical pu	urlin representatio ation of the purlin d.	n does no	ot depict the s	size			1111	E-20001	• 41.
BOT CHORD	17-18=-31/77, 16-17 15-16=0/138, 14-15= 13-14=-245/2149, 12 11-12=-98/527, 9-10	′=-177/1656, =0/172, 5-14=-309/11 2-13=-98/527, ⊨=0/0	,									IN UAN C	ARCI
WEBS	10-12=-36/6, 2-17=-{ 3-16=-16/439, 4-16= 14-16=-286/2085, 4- 8-13=-186/1945, 1-1 7-13=-396/226, 6-14	812/183, ·14=-24/358, 7=-190/1696,									WILLIN,	LICE	νs _{ε0} 952
NOTES											-	10:	E E
 Unbalance 	ed roof live loads have	been considered for									-		

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

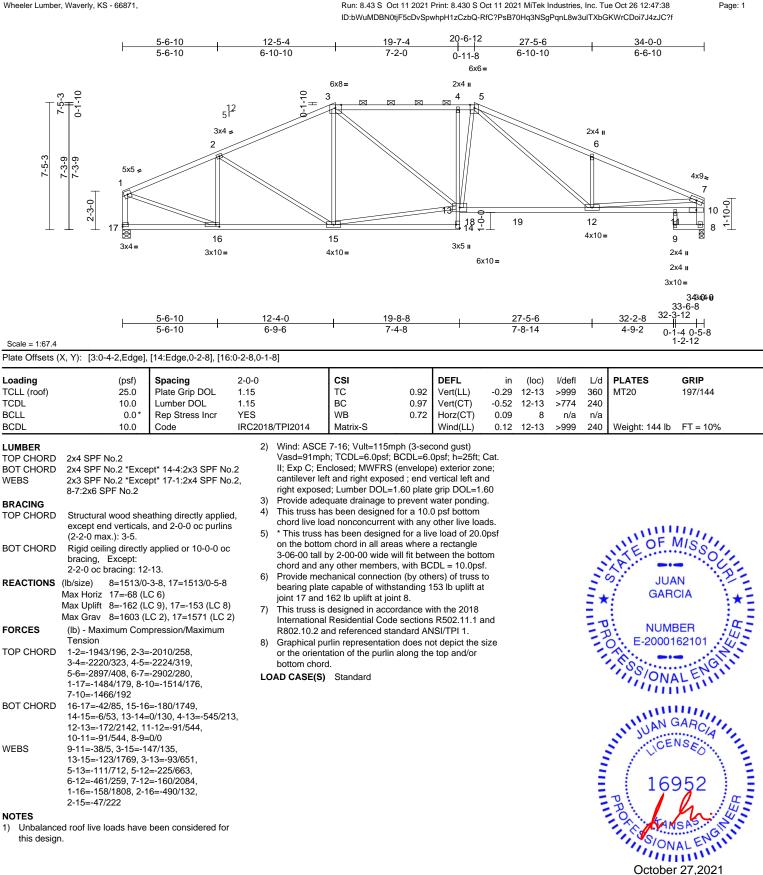


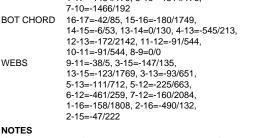
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October 27,2021

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	C3	Нір	1	1	Job Reference (optional)	148527899

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Oct 26 12:47:38





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



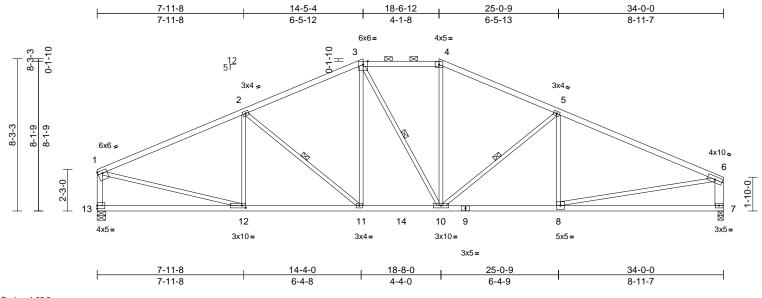
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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	C4	Нір	1	1	Job Reference (optional)	148527900

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Scale = 1:62.6

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

	(7, 1): [1:0 0 0,0 1 12	.,, [-	-						
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	0.99	Vert(LL)	-0.16	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.81	Vert(CT)	-0.33	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.63	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.07	11-12	>999	240	Weight: 139 lb	FT = 10%
LUMBER			3)	Provide ade	quate drainage t	o prevent	water pondin	q.					
TOP CHORD	2x4 SPF No.2 *Exce 1.8E	ept* 4-6:2x4 SPF 210	00F 4)	This truss ha	is been designe ad nonconcurrer	d for a 10.0	0 psf bottom						
BOT CHORD			5)		nas been design			0psf					
WEBS	2x3 SPF No.2 *Exce 7-6:2x6 SPF No.2	ept* 13-1:2x4 SPF N	0.2,	3-06-00 tall I	n chord in all are by 2-00-00 wide	will fit betv	veen the bott						
BRACING			0		ny other membe hanical connect								
TOP CHORD	Structural wood she except end verticals (4-4-15 max.): 3-4.			bearing plate joint 13 and	e capable of with 179 lb uplift at jo	nstanding 1 pint 7.	71 Ib uplift a					VU'OF	MISS
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	c 7)	International	designed in acc Residential Coc	de sections	R502.11.1	and			1	A	-00
WEBS	1 Row at midpt	3-10, 5-10, 2-11	C 1		nd referenced st						20	S: JUA	N :==
REACTIONS	(lb/size) 7=1513/0	-3-8, 13=1513/0-5-8	8)		rlin representati ation of the purli			size			24	GAR	
	Max Horiz 13=-65 (L	.C 4)		bottom chore		n along the	top anu/or				- *		
	Max Uplift 7=-179 (L	C 9), 13=-171 (LC 8	3)	DAD CASE(S)							-	1	
	Max Grav 7=1570 (I	LC 2), 13=1573 (LC	2) ^L	UAD CASE(S)	Standard						=	NUME	BER :
FORCES	(lb) - Maximum Com Tension	npression/Maximum									E	E-20001	62101
TOP CHORD	1-2=-2124/231, 2-3= 3-4=-1685/253, 4-5= 5-6=-2298/258, 1-13	-1912/242,										SSIONA	LENGTIN
	6-7=-1426/227												11.1
BOT CHORD	10-11=-71/1668, 8-1											UNIT JUAN CLOCE	SARO
WEBS	7-8=-63/230 3-11=-53/412, 3-10=		/428,									IL JURI	NSA
	5-10=-499/199, 5-8=												02
	1-12=-125/1819, 6-8	,											1 2 2
	2-11=-357/174, 2-12	2=-283/129									-	1 100	
NOTES	a di wa aƙ Kuta Ita a da K	have consider 17	_									10	992 =
,	ed roof live loads have	been considered to	r								-	P	n :#=
this design	n. CE 7-16; Vult=115mph	(3-second quet)									-	0.	Na: 143
	nph; TCDL=6.0psf; BC		Cat									- AN	SAS
	Enclosed; MWFRS (er											1, 50,	ENGIN
	left and right exposed											ON	ALE
	sed; Lumber DOL=1.6												
2 1												Octobo	07 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



October 27,2021

Job	Truss	Truss Type	Qty		Lot 117 RR	
RR117	C5	Нір	1	1	Job Reference (optional)	l48527901
Wheeler Lumber, Waverly, KS - 6	6871.	Run: 8.43 S Oct 11 2	021 Print: 8.4	430 S Oct 11	2021 MiTek Industries, Inc. Tue Oct 26 12:47:40	Page: 1

	, waveny, Ka	5 - 0007 1,											KWrCDoi7J4zJC?f	Fage	. 1
						17-6-12									
		5-6-10	1	2-9-1	16-5-4	16-6-12	25-0-8	2		33-	10-4		39-0-0	39-10-8	
		5-6-10		7-2-8	3-8-3		7-5-12		1)-12		5-1-12		
		0010			000	1-0-0		-		00			0.12	0-10-0	
						2x4	II								
						5x5=									
						4									
10-1-3 9-1-3 2-3-0	5x5 ≠ 1 19 ₩ 3x4 µ		5 ¹² 3x4 = 2 18 3x10=		2x4 II 3 17 20 4x8=	5 0 0 	¢		x4s 6 3x 3 x10=				5x6≈ 8 ₩ 12 4x5=	9 10 0 6x8=	
						3x5									
	 	5-6-10		2-9-1	17-5		25-0-8		I		10-4		34-0-0 39-0-0	<u> </u>	
Scale = 1:73		5-6-10		7-2-8	4-8	-/	7-7-0			8-9	-12		0-1-12 5-0-0		
	X, Y): [11:E	dge,0-5-4], [18:0-2-8,0-1-8]												
			1	-		1				-				-	
Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof) TCDL		25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15		TC BC	0.82 0.66	Vert(LL) Vert(CT)	-0.15 -0.29	13-15 13-15	>999 >999	360 240	MT20	197/144	
BCLL		0.0*	Rep Stress Incr	YES		WB	0.69		-0.29	13-15	>999 n/a	240 n/a			
BCDL		10.0	Code		8/TPI2014	Matrix-S	0.03	Wind(LL)		16-17		240	Weight: 169 lb	FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS	2x4 SPF N	No.2 No.2 *Exce	pt* 5-15:2x3 SPF I pt* 11-9,19-1:2x4 :	2) No.2	Wind: ASCE Vasd=91mpl II; Exp C; En cantilever lef right exposed	7-16; Vult= n; TCDL=6. closed; MV t and right d; Lumber I	=115mph (3-sec 0psf; BCDL=6.0 VFRS (envelope exposed ; end v DOL=1.60 plate	cond gust) Dpsf; h=25ft; e) exterior zo vertical left a grip DOL=1	; Cat. one; ind I.60				<u>-</u>		

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, Except: 6-0-0 oc bracing: 12-13,11-12. 1 Row at midpt 5-16 WEBS 1 Row at midpt 2-17, 6-16 REACTIONS (lb/size) 12=2083/0-3-8, 19=1472/0-5-8 Max Horiz 19=-190 (LC 9) Max Uplift 12=-310 (LC 9), 19=-186 (LC 8)

Max Grav 12=2141 (LC 2), 19=1535 (LC 2) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-1901/238, 2-3=-1922/258, 3-4=-1898/361, 4-5=-1708/336, 5-6=-1744/257, 6-8=-1785/238, 8-9=-177/513, 9-10=0/27, 9-11=-29/55, 1-19=-1454/210 BOT CHORD 18-19=-49/207, 17-18=-215/1711, 16-17=-27/1436, 15-16=0/126, 5-16=-423/222, 13-15=0/108, 12-13=-385/187, 11-12=-64/16 WEBS 2-18=-463/150, 2-17=-137/118, 3-17=-434/224, 4-17=-221/718, 4-16=-268/778, 13-16=-49/1464, 9-12=-326/189, 1-18=-186/1771, 6-13=-568/162, 6-16=-171/164, 8-12=-1879/389, 8-13=-161/2003

NOTES

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

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. 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 186 lb uplift at joint 19 and 310 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 7) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	C6	Нір	1	1	Job Reference (optional)	148527902

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39-10-8 7-11-7 25-0-9 33-10-4 39-0-0 14-5-4 18-6-12 7-11-7 6-5-13 4-1-8 6-5-13 8-9-11 5-1-12 0-10-8 6x6= 5x5= 9-3-3 1-10 0-1-10 3 4 5¹² = \boxtimes 3x4 🚽 3x4 👟 5 2 3x6**≈** 6 9-1-9 8-1-9 9-3-3 6x6 🚅 5x6~ 7 2-3-0 8 20 9 0-6-0 ę E 10 18 215 ę 19 T. 4x5= ø 3x10= 14 13 12 11 6x8= 3x4= 3x4 II 3x6= 4x10= 4x5= 2x4 II 6x8= _ . . _ 34-0-0 ~ ~ ~ ~

7-11-7	14-4-0	17-5-8 10-0-12	23-0-0	25-0-9	33-10-4	39-0-0	
7-11-7	6-4-9	3-1-8 1-1-4	4-4-0	2-0-9	8-9-11	0-1-12 5-0-0	
		0-1-4					

Scale = 1:73.5

Plate Offsets (X, Y	Y): [1:0-3-0,0-1-12]], [10:Edge,0-5-4], [16	6:0-3-8,0-	3-0], [17:0-2-0,	Edge], [19:0-2-8	3,0-1-8]							
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 IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.96 0.70 0.69	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.28 0.05	(loc) 11-12 11-12 11 11 17-18	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 164 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD 2 BOT CHORD 2 WEBS 2 WEBS 2 BOT CHORD 5 WEBS 1 REACTIONS (Ib Ma Ma FORCES (I TOP CHORD 1 TOP CHORD 1 S BOT CHORD 1 1 WEBS 3 4 4 7 7	x4 SPF No.2 x4 SPF No.2 *Exce x3 SPF No.2 *Exce lo.2 Structural wood she: except end verticals; 4-6-7 max.): 3-4. Rigid ceiling directly racing. Row at midpt /size) 11=2083/ ax Horiz 20=-174 (ax Uplift 11=-296 (ax Grav 11=2147 (b) - Maximum Com rension -2=-2071/230, 2-3= i-4=-1600/234, 4-5= i-10=-30/52, 1-20=- 9-20=-43/240, 18-1 7-18=-28/1609, 16- 5-17=-51/0, 14-15= 1-12=-379/187, 10-	athing directly applied, and 2-0-0 oc purlins applied or 6-0-0 oc 3-16, 5-16, 2-18 0-3-8, 20=1472/0-5-8 LC 9), 20=-171 (LC 8 (LC 2), 20=1540 (LC pression/Maximum -1827/226, -1810/220, -177/507, 8-9=0/27, 1411/211 9=-163/1839, -172-25/1526, -6/94, 12-14=0/116, -11=-71/17 -194/162, 14-16=0/20 -312/188, 2=-604/150, -1877/378, 8=-361/174,	2) o.2 F 3) (1, 4) 5) 6) (1) (2) 7) 8) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	Wind: ASCE Vasd=91mph II; Exp C; En cantilever lef right exposed Provide adee This truss ha chord live loa * This truss f on the bottor 3-06-00 tall b chord and ar Provide mec bearing plate joint 20 and 2 This truss is International R802.10.2 ar Graphical pu	7-16; Vult=115r n; TCDL=6.0psf; closed; MWFRS t and right exposi- d; Lumber DOL= quate drainage t s been designed n chord in all are by 2-00-00 wide y other membe hanical connecti- e capable of with 296 lb uplift at jo designed in acc Residential Coo nd referenced st flin representati- ation of the purlin t.	BCDL=6.6 (envelope sed; end v =1.60 plate of pravent v d for a 10.0 nt with any led for a live eas where will fit betw rs, with BC ion (by oth standing 1 bint 11. ordance w de sections tandard AN on does no	cond gust) opps; h=25ft; exterior zo vertical left ar grip DOL=1. water pondin. O psf bottom other live loa e load of 20. a rectangle veen the bott CDL = 10.0ps ers) of truss i 71 lb uplift ar ith the 2018 & R502.11.1 a SI/TP1 1. bt depict the s	Cat. ne; id 60 g. dds. Dpsf f. to t				JUA GARC NUME 20001 SS/ONA UCEI 165	MISSOUR CIA BER 62101 ULENO

NOTES

 Unbalanced roof live loads have been considered for this design.

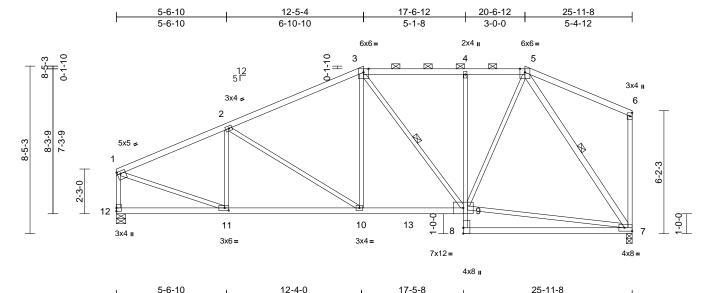
> 16023 Swingley Ridge Rd Chesterfield, MO 63017

October 27,2021

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	C7	Нір	1	1	Job Reference (optional)	148527903

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:41 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



	5-6-10	12-4-0	17-5-8	25-11-8	
	5-6-10	6-9-6	5-1-8	8-6-0	
Scale = 1:58					
Plate Offsets (X, Y): [1:0-2-0,0-1-	8] [7·Edge 0-2-0] [11·0-2-8 0-	1-8]			
	oj, [1:Edge,o E oj, [11:0 E e,o	[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	0.55	Vert(LL)	-0.20	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.40	7-8	>776	240	-	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	9-10	>999	240	Weight: 123 lb	FT = 10%
	2x4 SPF No.2 *Exce 2x3 SPF No.2 *Exce Structural wood she 4-1-3 oc purlins, ex 2-0-0 oc purlins (5-7 Rigid ceiling directly bracing. 1 Row at midpt	pt* 7-5:2x4 SPF No. athing directly applie cept end verticals, ar -3 max.): 3-5. applied or 10-0-0 oc 3-9, 5-7 -3-8, 12=1159/0-5-8 .C 7) .C 5), 12=-140 (LC 8) .C 2), 12=1208 (LC 2)	on the bot 3-06-00 tz chord and 6) Provide m bearing pl joint 12 ar 7) This truss Internation R802.10.2 8) Graphical or the orie bottom ch	s has been design tom chord in all are Il by 2-00-00 wide any other member echanical connecti ate capable of with d 140 lb uplift at jo is designed in acc nal Residential Coc and referenced st purlin representati ntation of the purlin prd.	eas where will fit betw rs, with BC ion (by oth standing 1 bint 7. ordance w de sections candard AN on does no	a rectangle veen the bott CDL = 10.0ps ers) of truss 40 lb uplift a th the 2018 R502.11.1 a NSI/TPI 1.	fom if. to t			*	JUA GAR	
	Tension									3	NUME	• 41.
TOP CHORD	1-2=-1458/177, 2-3=-1324/198, 3-4=-993/208, 4-5=-988/208, 5-6=-127/112, 6-7=-181/80, 1-12=-1127/164							E-20001	62101			
BOT CHORD	11-12=-208/53, 10-1 9-10=-206/1145, 8-9 7-8=0/145	,	34,								NONA	LENIN
WEBS	3-10=-2/368, 3-9=-2 5-9=-87/865, 5-7=-1 1-11=-130/1348, 2-1 2-11=-318/127	177/215,	,								ILI JUAN C	ARCIA
NOTES											UCE	NOED
 Unbalance this design Wind: ASC Vasd=91m II; Exp C; I cantilever right expo: Provide ac This truss 	ed roof live loads have n. 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	(3-second gust) DL=6.0psf; h=25ft; C ivelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 event water ponding r a 10.0 psf bottom	Cat. e; d b0							annus.	PBO DC SS/ON October	SAS THU

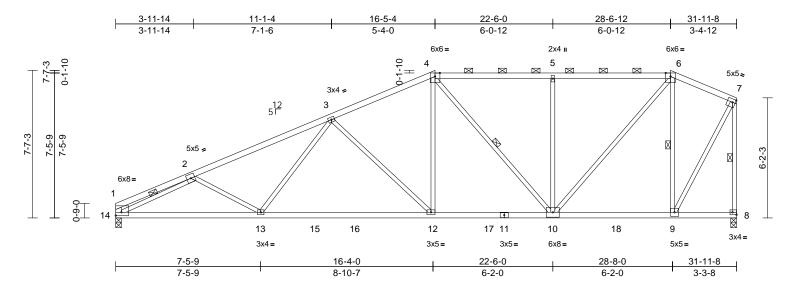
MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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 117 RR	
RR117	D1	Hip	1	1	Job Reference (optional)	148527904

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:42 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



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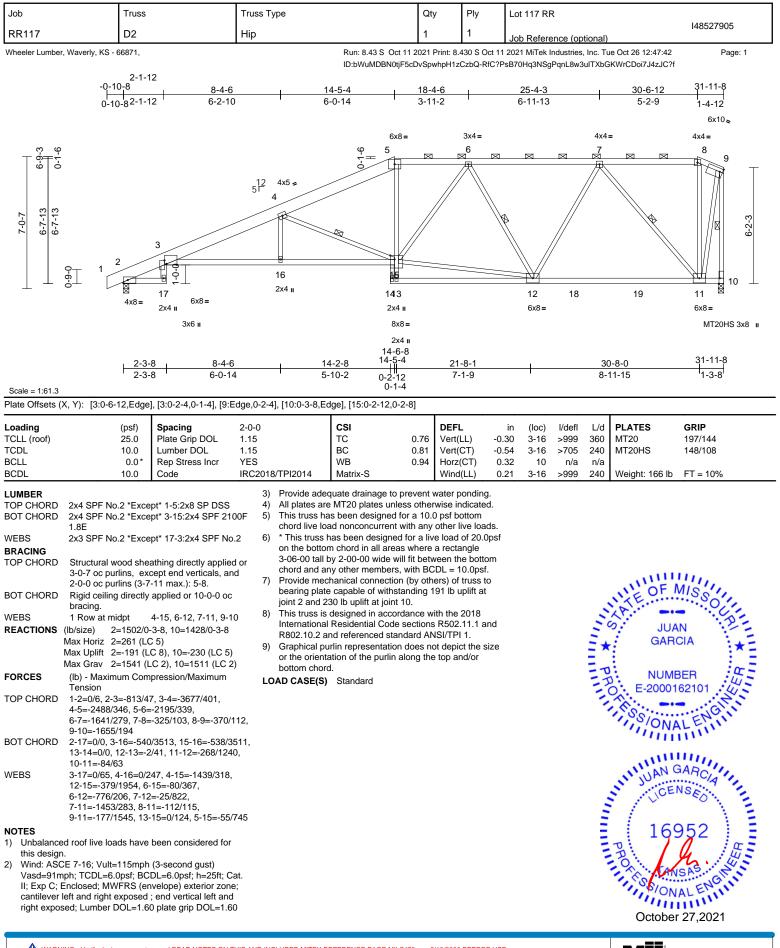
Plate Offsets (X, Y): [1:Edge,0-2-0], [7:0-1-12,0-2-0], [8:Edge,0-1-8]

										-	
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	0.73		28 12-13		360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.96		49 12-13		240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.84	()	08 8		n/a		
BCDL	10.0	Code	IRC2018/TPI			- (- / -	10 12-13		240	Weight: 134 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	Structural wood she 2-4-4 oc purlins, ex 2-0-0 oc purlins (4-5 Rigid ceiling directly bracing. 1 Row at midpt (Ib/size) 8=1427/0 Max Horiz 14=253 (I Max Uplift 8=-197 (L	applied or 2-2-0 oc 4-10, 6-9, 2-14, 7-8 -3-8, 14=1427/0-3-8 LC 5) C 5), 14=-184 (LC 8)	on 3-0 chc 6) Pro bea join d or join Inte R8(8) Gra or t bot	he bottom chord 5-00 tall by 2-00- rd and any other vide mechanical ring plate capab t 14 and 197 lb u t truss is designe rnational Reside 2.10.2 and refer phical purlin rep	ed in accordance w ntial Code sections enced standard AN resentation does no the purlin along the	a rectangle ween the bottom CDL = 10.0psf. ers) of truss to 184 lb uplift at ith the 2018 s R502.11.1 and VSI/TPI 1. ot depict the size			in the second se	S JUA	
	Max Grav 8=1539 (I	_C 2), 14=1512 (LC 2	2)						2.0		: 2 =
FORCES	(lb) - Maximum Com Tension	pression/Maximum							Ξτ	NUME	
TOP CHORD	1-2=-438/23, 2-3=-2 4-5=-1461/277, 5-6=		,						1111	E-20001	• 41.
BOT CHORD	13-14=-452/2458, 12 10-12=-266/1724, 9	2-13=-335/2182, -10=-141/653, 8-9=-8	34/63							S/ONA	LENIN
WEBS	,	3=0/414, 3-12=-640/2 422/103,)=-186/1265,								IN JUAN C	ARCIA
NOTES	2 . 1- 200 //001								2	I UCE	NSEO
 this design Wind: ASC Vasd=91n II; Exp C; cantilever right exposized Provide act This truss 	ed roof live loads have n. 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 with	cat. e; l 0						CHINES.	ROAL SAN	952 ALENGINI	

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

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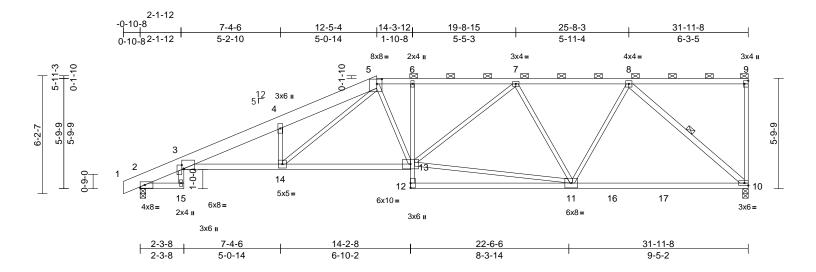
October 27,2021





Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	D3	Half Hip	1	1	Job Reference (optional)	148527906

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:43 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



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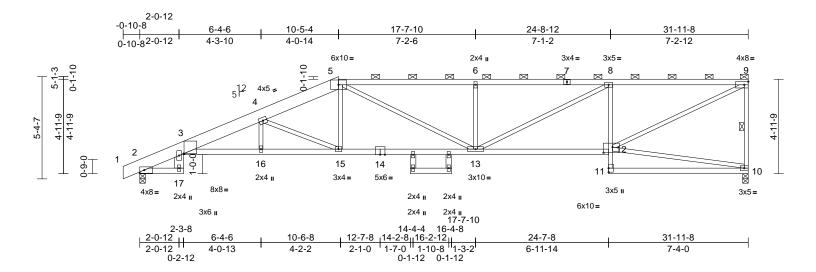
Plate Offsets (X, Y): [3:0-6-12,Edge], [3:0-2-4,0-1-4], [5:0)-3-4,0-3-	0], [9:Edge,0-2	-8]								
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.73 0.59 0.81	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.56 0.31	(loc) 13-14 13-14 10 13-14	l/defl >999 >681 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 155 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS		E *Except* 2-15:2x4 \$ No.2 ppt* 15-3,10-8:2x4 \$F athing directly applie cept end verticals, ar i-11 max.): 5-9. applied or 10-0-0 oc 8-10 -3-8, 10=1426/0-3-8 C 5) C 4), 10=-254 (LC 5) LC 2), 10=1499 (LC 2)	PF 5; d or id 6; 7; L	 chord live loa * This truss I on the bottoo 3-06-00 tall I chord and an Provide mechanism provide mechanism<td></td><td>with any ed for a liv as where vill fit betw s, with BC on (by oth standing 2 nt 2. rdance w e sections undard AN n does no</td><td>other live load e load of 20.0 a rectangle veen the bott DL = 10.0psi ers) of truss I 54 lb uplift al the 2018 a R502.11.1 a ISI/TPI 1. bt depict the s</td><td>Dpsf om co co</td><td></td><td></td><td>111 * Ph</td><td>JUA GAR NUME E-20001</td><td>BER U</td>		with any ed for a liv as where vill fit betw s, with BC on (by oth standing 2 nt 2. rdance w e sections undard AN n does no	other live load e load of 20.0 a rectangle veen the bott DL = 10.0psi ers) of truss I 54 lb uplift al the 2018 a R502.11.1 a ISI/TPI 1. bt depict the s	Dpsf om co co			111 * Ph	JUA GAR NUME E-20001	BER U
TOP CHORD	Tension 1-2=0/6, 2-3=-805/5 4-5=-4080/542, 5-6= 6-7=-2578/422, 7-8= 9-10=-181/79		60,									SS/ONA	
BOT CHORD	2-15=0/0, 3-14=-603 12-13=0/136, 6-13=- 10-11=-300/1365											IN AN C	ARC
WEBS	3-15=0/65, 4-14=-97 5-13=-63/371, 11-13 7-13=-75/535, 7-11= 8-10=-1805/341	3=-404/2044,	,								111	LICE	NSEO
Vasd=91m II; Exp C; I cantilever right expos	CE 7-16; Vult=115mph ph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 Jequate drainage to pr	DL=6.0psf; h=25ft; C tyclope) exterior zon ; end vertical left and 0 plate grip DOL=1.6	e; I O								THINK .	PROX SON	SAS NUT

October 27,2021



Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	D4	Half Hip	1	1	Job Reference (optional)	148527907

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:43 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:60.5

Plate Offsets (X, Y): [3:0-0-5,0-0-0], [12:0-5-12,0-3-8]

Plate Olisets (A, T). [3.0-0-5,0-0-0],	[12.0-5-12,0-5-6]										-		
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-S	0.76 0.77 0.88	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.58 0.35	(loc) 13-15 13-15 10 13-15	l/defl >999 >659 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 147 lb	GRIP 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF 2100F 1.8E DSS 2x4 SPF No.2 *Exce 1.8E, 8-11:2x3 SPF 2x3 SPF No.2 *Exce 18-20,19-21:2x4 SP Structural wood she 3-0-12 oc purlins, e 2-0-0 oc purlins, e 2-0-0 oc purlins (3-9 Rigid ceiling directly bracing. 1 Row at midpt (lb/size) 2=1492/0 Max Horiz 2=206 (LC Max Uplift 2=-202 (L	ept* 3-14:2x4 SPF 21 No.2 ept* 17-3:2x6 SPF Nr F No.2 athing directly applie xcept end verticals, i-1 max.): 5-9. applied or 8-1-13 or 9-10 -3-8, 10=1425/0-3-8 C 5)	P 4) 100F 5) 5.2, 5) ed or 6) C 7)	 chord live loa * This truss h on the bottor 3-06-00 tall h chord and ar Provide mec bearing plate joint 10 and This truss is International R802.10.2 a Graphical pu 		with any d for a liv as where rill fit betv n (by oth tanding 2 nt 2. rdance w sections ndard AN n does no	other live load e load of 20.0 a rectangle veen the botti ers) of truss I 259 lb uplift at the 2018 5 R502.11.1 a USI/TPI 1. bt depict the s	Opsf om to t				JUA GAR		
FORCES	(lb) - Maximum Com Tension 1-2=0/6, 2-3=-719/7 4-5=-3049/472, 5-6= 6-8=-3145/559, 8-9= 9-10=-1351/305	' 3, 3-4=-3846/519, 3145/559,									1111	E-20001	62101	
BOT CHORD	2-17=0/20, 3-16=-67 15-16=-668/3777, 13 12-13=-489/2341, 1 8-12=-956/288, 10-1 3-17=0/68, 4-16=-18	3-15=-518/2773, 1-12=0/148, 1=0/62	10										ARCIA	
NOTES 1) Wind: ASC Vasd=91n II; Exp C; cantilever right expo:	5-15=-30/595, 5-13= 6-13=-505/212, 8-13 10-12=-92/40, 9-12= 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	117/417, }=-133/908, 504/2575 (3-second gust) DL=6.0psf; h=25ft; (nvelope) exterior zor ; end vertical left an 0 plate grip DOL=1.6	Cat. ie; d 60								CHINNE.	DAL SSION	952 SA5. CH ALENGIN	WWWWIPPL

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

October 27,2021

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	D5	Half Hip	1	1	Job Reference (optional)	148527908

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:44 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

8-5-4 19-2-4 24-8-12 31-11-8 14-1-0 6-3-8 5-7-12 5-1-5 5-6-8 7-2-12 5x7= 3x4= 3x4= 3x4= 2x4 II 6x8= 0-1-10 0-1-10 4 6 8 5 2 12 5 - \bowtie \bowtie \bowtie \bowtie \bowtie \bowtie ∇ 4-1-9 4-1-9 4-1-9 4-6-7 3 0-6-0 13 è 15 14 e 11 10 Ř 3x4= Ř 16 10x12 =6x8= 3x5 II 4x8= MT20HS 3x10 = 4x5= 2x4 II 2x4 II 2x4 II 3x6 II 2x4 II 3x4= 16-7-10 16-2-12 14-4-4 16-2-3-8 2-1-12 II 16-4-8 8-6-8 10-7-8 14-2-8 24-7-8 31-11-8 0-1-12 F 2-1-12 ^{||} 0-1-12 6-2-15 2-1-0 3-7-0 7-11-14 7-4-0 0-1-12 1-10-8 0-3-2

Scale = 1:60.5

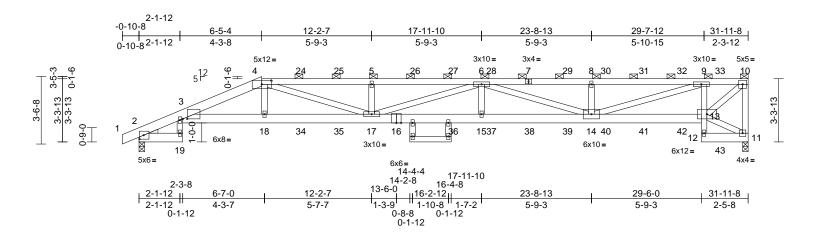
Plate Offsets (X, Y): [3:0-7-11,Edge]

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.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		тс	0.81	Vert(LL)	-0.41	13-15	>932	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15		BC	0.57	Vert(CT)	-0.76	13-15	>504	240	MT20HS	148/108	
BCLL	0.0*	Rep Stress Incr	YES		WB	0.82	Horz(CT)	0.43	10	n/a	n/a			
BCDL	10.0	Code	IRC2018/	TPI2014	Matrix-S		Wind(LL)	0.33	13-15	>999	240	Weight: 138 lb	FT = 10%	
LUMBER			4)	This truss ha	s been designed	d for a 10 () nsf hottom							
TOP CHORD	2x8 SP DSS *Excep	nt* 4-7-2x4 SPF No 2	,		d nonconcurren			ads.						
	7-9:2x4 SPF 2100F				as been design									
BOT CHORD	2x4 SPF No.2 *Exce		,		n chord in all are			-1						
	2100F 1.8E, 8-11:2>			3-06-00 tall b	y 2-00-00 wide	will fit betw	een the bott	om						
WEBS	2x3 SPF No.2 *Exce	ept*			y other member									
	16-3,12-9,17-19,18-	20:2x4 SPF No.2			nanical connecti									
BRACING					capable of with		62 lb uplift a	t					III.	
TOP CHORD	Structural wood she				218 lb uplift at jo designed in acco		ith the 2019					UN OF I	MIG	
	2-6-7 oc purlins, ex				Residential Cod			and				NE	SS	
	2-0-0 oc purlins (2-6	,			nd referenced st						- 5	18		
BOT CHORD	Rigid ceiling directly bracing.	applied or 8-10-12	OC		rlin representation			size			-	JUA	N . 7	-
WEBS	1 Row at midpt	6-12	,	or the orienta	tion of the purlir	n along the	top and/or				-	GAR		1
		-3-8, 10=1425/0-3-8		bottom chord							= *	GAN		1
	Max Horiz 2=170 (L0		LOA	AD CASE(S)	Standard						Ξ.	:	:	-
	Max Uplift 2=-218 (L		5)								= 7		BER 🤆	1
FORCES	(lb) - Maximum Com		,								- 7	E-20001	• [] [-
	Tension										-	A		
TOP CHORD	1-2=0/6, 2-3=-713/8	7, 3-4=-3351/509,									1	100	G	
	4-5=-3210/523, 5-6=	,										IN ONL	LENN	
	6-8=-2883/549, 8-9=	=-2873/557,										1111	iiiii	
BOT CHORD	9-10=-1351/306 2-16=0/15, 3-15=-59	21/2109											•	
BOT CHORD	13-15=-777/3955, 1	,											IIIII.	
	11-12=0/147, 8-12=	,	35									IN IAN C	SARC !!!	
WEBS	3-16=0/66, 4-15=-1/											1 20	···· A	
	5-13=0/173, 6-13=0	,	,									CE	NSED.	2
	10-12=-76/32, 9-12=	-599/3061									-	() () () () () () () () () ()		-
NOTES											=	UAN CLICE		=
1) Wind: ASC	CE 7-16; Vult=115mph	(3-second gust)									-	169	952	Ξ.
	nph; TCDL=6.0psf; BC										-	DI	: œ	-
	Enclosed; MWFRS (er										-	P.	U . 14	5
	left and right exposed sed; Lumber DOL=1.6											- Anter Han	SAS S	
	sed; Lumber DOL=1.6 dequate drainage to pr											1.50	NGIN	
	are MT20 plates unles											ON	ALE	
o, / iii piates e	are mirze plates unles		u.									111	nnn.	
												October	r 27,2021	

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	D6	Half Hip Girder	1	3	Job Reference (optional)	148527909

Run: 8.43 E Jul 16 2021 Print: 8.430 E Jul 16 2021 MiTek Industries, Inc. Wed Oct 27 13:11:12 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-NI5IRXEZAD5Fg1sf9fcIRmC3PmnC3CFEYSSr3IyPMy0 Page: 1



Scale = 1:60.4

Plate Offsets (X, Y): [2:0-2-11,0-2-8], [3:0-2-13,0-0-0], [4:0-6-0,0-2-6]

	A, T). [2.0-2-11,0-2-6	j, [3.0-2-13,0-0-0], [4 -	.0-0-0,0-2	-0]									
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 NO		CSI TC BC WB	0.95 0.56 0.46	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.44 -0.79 0.36	15-17 11	l/defl >864 >480 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.27	15-17	>999	240	Weight: 509 lb	FI = 10%
LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 *Exce 2x6 SP 2400F 2.0E SPF No.2 2x4 SPF No.2 Left: 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, exi 2-0-0 oc purlins (5-1 Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 11 (lb/size) 2=2835/0	Except* 9-12,20-21: athing directly applie cept end verticals, ar 0-15 max.): 4-10. applied or 10-0-0 oc	2x4 N 1) d or nd	3-ply truss to (0.131*x3") n Top chords c staggered at Bottom chorc staggered at Web connect All loads are except if note	3-19=-52/712, $4-184-17=-58/2859, 5-15-15=0/547, 6-14=-549/547, 6-14=-549/547, 6-14=-549/5575, 10^{-1}4^{-1} be connected tog-iails as follows:connected as follows:0-9-0$ oc, $2x4 - 1$ r 10^{-9} oc, $2x4 -$	7=-718, -3161/20 0-13=-2 ether wi vs: 2x6 - ow at 0- llows: 2 ow at 0- - 1 row y applie ack (B)	 (192, 6-17=-8€ (17, 8-14=-645, 92/4297 th 10d 2 rows 9-0 oc. x6 - 2 rows 9-0 oc. at 0-9-0 oc. at 0-9-0 oc. d to all plies, face in the LO 	/153,	or the bott 12) Har prov lb d at 8 dow at 2 dow at 2 dow at 2 140	ne orien om choi vided su own and 3-6-0, 13 vn and 4 14-6-0, 1 vn and 3 20-6-0, 1 vn and 3 20-6-0, 1 vn and 3 26-6-0, a lb dowr	tation of rd. or other fficient d 43 lb 30 lb do 2 lb up 14 lb up 14 lb up 14 lb up and 10 m and 5	of the purlin alon r connection dev to support conc up at $6-5-4$, 130 own and 42 lb up to at $12-6-0$, 130 down and 34 lb u to at $18-6-0$, 114 down and 34 lb u to at $24-6-0$, 107 7 lb down and 33 51 lb up at $30-6-107$	es not depict the size ig the top and/or rice(s) shall be sentrated load(s) 139 D lb down and 42 lb up p at 10-6-0, 130 lb lb down and 42 lb up up at 16-6-0, 114 lb lb down and 34 lb up up at 22-6-0, 114 lb lb down and 30 lb up O lb up at 28-6-0, and 0 on top chord, and 4, 78 lb down at
	Max Horiz 2=100 (LC				ction. Ply to ply cor listribute only loads								down at 12-6-0, 87 lb
FORCES	Max Uplift 2=-208 (L (lb) - Max. Comp./Ma (lb) or less except w	ax. Ten All forces 2		unless other	wise indicated. roof live loads have			•	20-6	6-0, 87 I	b dowr	n at 22-6-0, 87 lt	-6-0, 87 lb down at b down at 24-6-0, 94 nd 94 lb down and 15
TOP CHORD	2-3=-1819/133, 3-4= 4-24=-11145/735, 2- 5-25=-11146/735, 5- 26-27=-11145/735, (6-28=-8912/468, 7-2	8839/707, 4-25=-11145/735, -26=-11145/735, 6-27=-11145/735, 28=-8912/468,	4)	Wind: ASCE Vasd=91mph II; Exp C; En and right exp	7-16; Vult=115mp n; TCDL=6.0psf; Bo closed; MWFRS (e bosed ; end vertical =1.60 plate grip D	CDL=6.0 envelope I left and	Dpsf; h=25ft; C e); cantilever le d right exposed	eft	cho (s) i	rd. The s the reater ar applie	desigr sponsi d to ply	n/selection of suc bility of others. y: 1(Front)	t 30-6-0 on bottom ch connection device
	7-29=-8912/468, 8-2 8-30=-8912/468, 9- 9-32=-3319/220, 10- 10-14=2820/200 3-169-732/8443108 34-35=-736/8551, 11- 16-17=-699/11907, 15-36=-699/11907, 15-36=-699/11907, 14-39=-699/11907, 14-39=-699/11907, 14-39=-699/11907, 14-39=-699/11907, 14-39=-699/11907, 14-39=-699/11907, 14-39=-699/11907, 15-36=-699/11907, 14-39=-699/11907, 15-36=-699/11000, 15-36=-699/11000, 15-36=-699/11000, 15-36=-699/11000, 15-36=-699/11000, 15-36=-699/11000, 15-36=-699/11000, 15-36=-699/11000, 15-36=-699/11000, 15-36=-699/11000, 15-36=-699/11000, 15-36=-699/11000, 15-36=-699/1000, 15-36=-699/1000, 15-36=-600, 15-36=-600, 15-36=-600, 15-36=-60	31-99/2/468, 32-8312/468, 33=-8319/220 34=-736/8551, 735=-736/8551, 16-36=-699/11907, 38-99-699/11907, 38-39=-699/11907, 39-40, 39-4	5) 6) 7) 8) 9)	All plates are This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and an Provide mecl bearing plate joint 11 and 2)) This truss is International	quate drainage to p 2x4 MT20 unless is been designed fr ad nonconcurrent v nas been designed in chord in all areas by 2-00-00 wide will y other members. hanical connection e capable of withsts 208 lb uplift at joint designed in accord Residential Code in nd referenced stan	otherwi or a 10.0 vith any for a liv s where Il fit betw (by oth anding 1 2. dance w sections	se indicated. D psf bottom other live loac e load of 20.0) a rectangle veen the botto ers) of truss to 75 lb uplift at ith the 2018 s R502.11.1 ar	ds. psf m			. annua.	PROCESSION	GARCIA 952 VSAS VAL ENGINE

Continued on page 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/TP11 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

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	D6	Half Hip Girder	1	3	Job Reference (optional)	148527909

Run: 8,43 E Jul 16 2021 Print: 8,430 E Jul 16 2021 MiTek Industries. Inc. Wed Oct 27 13:11:12 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-NI5IRXEZAD5Fg1sf9fcIRmC3PmnC3CFEYSSr3IyPMy0 Page: 2

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, 1) Plate Increase=1.15
 - Uniform Loads (lb/ft)

Vert: 1-4=-70, 4-10=-70, 2-19=-20, 3-13=-20,

11-12=-20 Concentrated Loads (lb)

Soncentrated Loads (lb) Vert: 4=-116 (B), 7=-97 (B), 18=-524 (B), 17=-73 (B), 5=-116 (B), 24=-116 (B), 25=-116 (B), 26=-116 (B), 27=-97 (B), 28=-97 (B), 29=-97 (B), 30=-97 (B), 31=-91 (B), 32=-91 (B), 33=-126 (B), 34=-73 (B), 35=-73 (B), 36=-87 (B), 37=-87 (B), 38=-87 (B), 39=-87 (B), 40=-87 (B), 41=-94 (B), 42=-94 (B), 42=-58 (B)

43=-58 (B)



Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	E1	Hip Girder	1	1	Job Reference (optional)	l48527910

0-1-6

2-2-3

2-0-13 2-0-13

2-2-3

Scale = 1:33.4

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:48 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

14-10-8

0-10-8

5

6

-0-10-8 3-5-4 10-6-12 14-0-0 0-10-8 3-5-4 3-5-4 7-1-8 Special Special NAILED NAILED NAILED 12 5 Г 5x5 = 5x5 = 3 4 φ 5 2-9-4 2-9-4 2 0-6-0 ç 4 ┢ 10 ΠΠ ΠΠ \mathbb{R} \mathbb{R} 9 14 15 16 8 6x8 II 6x8 II 2x4 II 3x4 =Special NAILED NAILED NAILED Special 3-4-0 10-8-0 14-0-0 3-4-0 7-4-0 3-4-0 Plate Offsets (X, Y): [7:Edge,0-5-8]

	X, 1). [7.Luge,0-5-0]												
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 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.90 0.90 0.09	Vert(CT)	in -0.15 -0.35 0.03 0.12	(loc) 8-9 8-9 7 8-9	l/defl >999 >471 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 45 lb	GRIP 197/144 FT = 10%
FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this design 2) Wind: ASC Vasd=91m II; Exp C; I cantilever right expos 3) Provide ac 4) This truss chord live 5) * This truss on the bot 3-06-00 ta	2-0-0 oc purlins (4-7 Rigid ceiling directly bracing. (lb/size) 7=850/0-3 Max Horiz 10=17 (LC Max Uplift 7=-179 (L (lb) - Maximum Com Tension 1-2=0/30, 2-3=-1341 4-5=-1322/261, 5-6= 5-7=-748/158 9-10=-212/1181, 8-5 7-8=-202/1156 3-9=0/269, 3-8=-46/	ept* 10-2,7-5:2x6 SP athing directly applie cept end verticals, ar '5 max.): 3-4. applied or 10-0-0 or 3-8, 10=850/0-3-8 C 7) C 5), 10=-178 (LC 4 pression/Maximum 1/265, 3-4=-1152/260 e0/30, 2-10=-743/15; D=-220/1176, 21, 4-8=0/279 been considered for (3-second gust) DL=6.0psf; h=25ft; C twelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 event water ponding r a 10.0 psf bottom ith any other live load or a live load of 20.0 where a rectangle	7) 8) ed or 9) 10) 10) 10) 10) 10) 11) LO 1) Cat. e; d 500 - ds. psf	bearing plate joint 10 and 1 This truss is d International R802.10.2 ar Graphical pu or the orienta bottom chord "NAILED" ind (0.148"x3.25) Hanger(s) or provided suff Ib down and 122 Ib up at 3-5-4, and 55 design/select responsibility) In the LOAD of the truss a AD CASE(S) Dead + Rooc Plate Increas Uniform Loa Vert: 1-2: 7-10=-20 Concentrate Vert: 3=-6 11=-28 (F	ticates 3-10d (0. ") toe-nails per N other connection icient to support 122 lb up at 3-5 10-6-12 on top c 5 lb down at 10-1 ion of such conr of others. CASE(S) section re noted as front Standard of Live (balanced use=1.15 ads (lb/ft) =-70, 2-3=-70, 3-	standing 1 nt 7. ordance w e sections andard AN on does no along the 148"x3") of 19S guidil n device(s concentra 4, and 16 shord, and 5-0 on bol ection de n, loads a ; (F) or ba): Lumber 4=-70, 4-1 , 9=-36 (F	178 lb uplift a ith the 2018 is R502.11.1 a SI/TPI 1. bt depict the se a top and/or or 3-12d nes. i) shall be ated load(s) 1 33 lb down ar at 55 lb down ar ttom chord. T vice(s) is the pplied to the ck (B). f Increase=1. 5=-70, 5-6=-7 i), 8=-36 (F),	t and size 163 nd at The face 15,				PROCESSION	CIA BER 162101 ALENG NSEO 952 44

- 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. 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.

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 117 RR	
RR117	E2	Нір	1	1	Job Reference (optional)	148527911

5-5-4

Wheeler Lumber, Waverly, KS - 66871,

-0-10-8

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:48 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

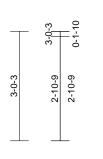
14-10-8

14-0-0

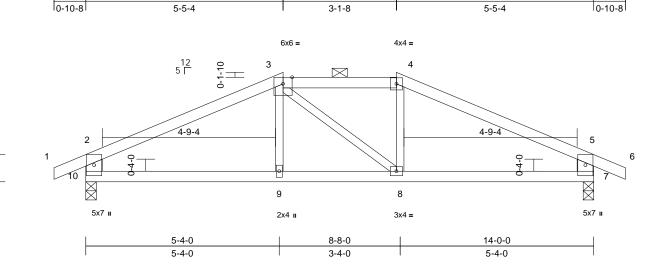
Page: 1

October 27,2021

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



0-6-0



8-6-12

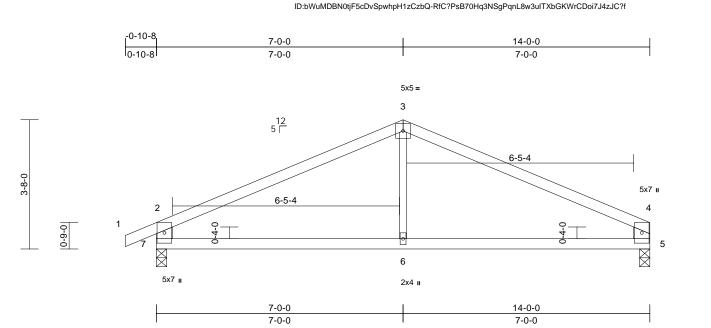
Scale = 1:31.8

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	0.58	Vert(LL)	-0.05	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.10	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	8-9	>999	240	Weight: 44 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS		ept* 10-2,7-5:2x6 SP	Internation R802.10.2 F 8) Graphical	is designed in acco al Residential Cod and referenced sta purlin representatio	le sections andard AN on does no	R502.11.1 a SI/TPI 1. ot depict the						
	No.2			ntation of the purlin	n along the	e top and/or						
BRACING			bottom cho									
TOP CHORD	Structural wood she 5-4-12 oc purlins, e 2-0-0 oc purlins (6-0	xcept end verticals, a 0-0 max.): 3-4.	and	 Standard 								10
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc									N'OF	MIS
REACTIONS	0	3-8, 10=687/0-3-8									NYE	
	Max Horiz 10=27 (LO									5	74	
	Max Uplift 7=-90 (LC									-	∽. JU/	AN :
FORCES	(lb) - Maximum Com Tension	pression/Maximum								Ξ×	GAR	
TOP CHORD	1-2=0/30, 2-3=-877/ 4-5=-877/96, 5-6=0/ 5-7=-612/128									PP	NUM	• [] [
BOT CHORD		34/727, 7-8=-34/729								-1	E-2000	162101
WEBS	3-9=0/152, 3-8=-107	7/107, 4-8=0/152								1	£	
NOTES											S/ON	NI ENIN
 Unbalance this design 	ed roof live loads have	been considered for									1111	Think
0	 CE 7-16; Vult=115mph	(3-second gust)										
	nph; TCDL=6.0psf; BC		Cat.									
	Enclosed; MWFRS (er										TICE TICE	SARCIA
	left and right exposed										N CE	NSA
	sed; Lumber DOL=1.6											0
	dequate drainage to pr has been designed fo									-	1 J	- A E
	load nonconcurrent w		le								1.0	050
	s has been designed f									-	10	952 🛛 🗖
,	tom chord in all areas		p0.							-	PT:	
3-06-00 ta	all by 2-00-00 wide will	fit between the botto	m								0	143
	any other members.										A MAN	ISA3
	echanical connection										1,00/0	IN EN IN
	ate capable of withsta	nding 90 lb uplift at jo	pint								1111	ALTIN
10 and 90	lb uplift at joint 7.										Ostaha	r 07 0001

J	lob	Truss	Truss Type	Qty	Ply	Lot 117 RR	
F	RR117	E3	Common	3	1	Job Reference (optional)	148527912

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:49

Wheeler Lumber, Waverly, KS - 66871,



Scale =	1:32.7
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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	тс	0.65	Vert(LL)	-0.05	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.11	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.03	6-7	>999	240	Weight: 38 lb	FT = 10%

LUM	BER	l
-----	-----	---

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

VEBS 2x	SPF No.2 *Except* 6-3:2x3 SPF No.2
---------	------------------------------------

BRACING	

Structural wood sheathing directly applied or
5-0-8 oc purlins, except end verticals.
Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS	(lb/size)	5=606/0-3-8, 7=690/0-3-8
	Max Horiz	7=47 (LC 8)
	Max Uplift	5=-77 (LC 9), 7=-103 (LC 8)
FORCES	(lb) Mov	imum Compression/Maximum

FURCES	(ib) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/30, 2-3=-820/104, 3-4=-815/102,
	2-7=-620/149, 4-5=-529/120
BOT CHORD	6-7=-38/662, 5-6=-38/662
WEBS	3-6=0/276

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
- 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 103 lb uplift at joint 7 and 77 lb uplift at joint 5.
- 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

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Page: 1

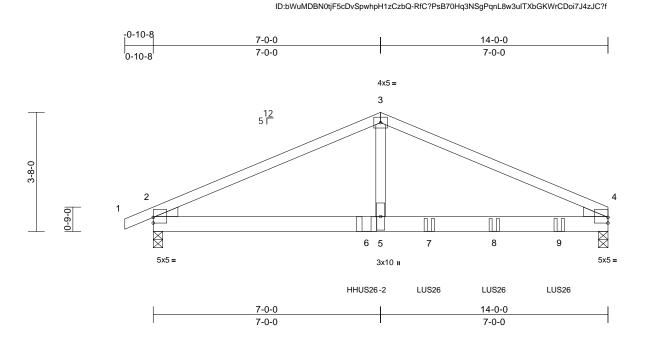


Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	E4	Common Girder	1	2	Job Reference (optional)	148527913

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:49

Page: 1

Wheeler Lumber, Waverly, KS - 66871,



Scale = 1:35.5 Plate Offsets (X, Y): [2:Edge,0-2-2], [4:Edge,0-2-2]

TCLL (roof)	psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.68	DEFL Vert(LL)	in -0.08	(loc) 4-5	l/defl >999	L/d 360	PLATES MT20	GRIP 197/144
TCDL BCLL	10.0 0.0*	Lumber DOL Rep Stress Incr	1.15 NO		BC WB	0.39 0.25	Vert(CT) Horz(CT)	-0.13 0.01	4-5 4	>999 n/a	240 n/a		
	10.0	Code		3/TPI2014	Matrix-S	0.20	Wind(LL)	0.04	4-5	>999	240	Weight: 113 lb	FT = 10%
6-0-0 oc purli BOT CHORD Rigid ceiling bracing. REACTIONS (Ib/size) 2= Max Horiz 2= Max Uplift 2= FORCES (Ib) - Maximu Tension	 - 2.0E No.3 No.3 od she ns. directly 1549/0 1549/0 58 (LC 173 (L 173 (L -3025/ 0, 4-5= follows as foll as foll s: 2x4 - qually or bar loads Joad 	C 8), 4=-193 (LC 9) pression/Maximum 274, 3-4=-3013/272 193/2630 ther with 10d s: 2x4 - 1 row at 0-9-0 ows: 2x6 - 2 rows 1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LOA tections have been noted as (F) or (B),	5) d or 6) 7) 8) 9) 10 11 LC 1)	Vasd=91mph II; Exp C; En cantilever lef right exposed This truss ha chord live loa * This truss ha chord live loa * This truss ha on the botton 3-06-00 tall b chord and an Provide med bearing plate joint 4 and 17 This truss is International R802.10.2 ar Use Simpsor 4-10d Truss) connect truss Use Simpsor Truss) or equ 8-6-0 from th back face of Fill all nail ho Dead + Roo Plate Increa Uniform Loa Vert: 1-3 Concentrate	of Live (balanced): ise=1.15	CDL=6. enveloped () end () 60 plate for a 10. with any d for a liv s where ill fit betw h (by oth anding 1 2. dance w sections ndard AN S26-2 (1 5-6-13 fro of bottoo 26 (4-10c 2-0-0 oc 0 to con is in cor : Lumber	Opsf; h=25ft; e) exterior zo vertical left ar grip DOL=1) psf bottom other live loz e load of 20. a rectangle veen the bott ers) of truss 93 lb uplift a ith the 2018 is R502.11.1 a USI/TPI 1. 4-10d Girder m the left en n chord. d Girder, 3-10 c max. startin nect truss(es ntact with lurr	ne; nd .60 ads. Opsf om to t and d to y g at) to ber. 15,				UCE	CIA BER 62101 ALENGA ALENGA NSEO

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



October 27,2021

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	G1	Hip Girder	1	1	Job Reference (optional)	148527914

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:50 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

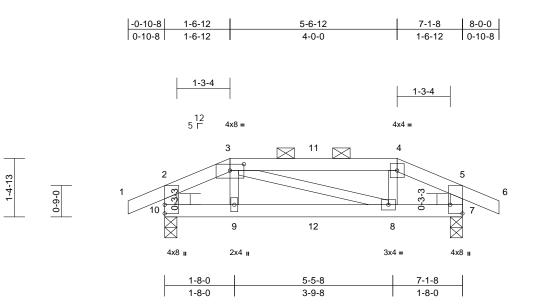


Plate Offsets (X, Y): [3:0-4-0,0-1-13], [7:Edge,0-3-8]

,												-	-
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	0.27	Vert(LL)	-0.02	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.22	Vert(CT)	-0.03	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC20	18/TPI2014	Matrix-S		Wind(LL)	0.01	8-9	>999	240	Weight: 24 lb	FT = 10%
UMBER			e) Provide med	chanical connecti	on (by oth	ers) of truss t	0					
OP CHORD	2x4 SPF No.2				e capable of with								
OT CHORD	2x4 SPF No.2			joint 10 and	100 lb uplift at joi	int 7.							
VEBS	2x3 SPF No.2 *Exce	ept* 10-2,7-5:2x4 SP	PF 7		designed in acco								
	No.2				Residential Cod			nd					
BRACING					ind referenced sta								
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.					urlin representation ation of the purlin			lize					
			nd	bottom chor		i along the							1117
OT CHORD	Rigid ceiling directly			r other connection	n device(s) shall be					N'OF	MISSI	
SOT CHORD	bracing.	applied of 10-0-0 of			fficient to support			7 lb			3	NXE	
REACTIONS	0	3-8, 10=375/0-3-8			2 lb up at 1-6-12						~	74	
	Max Horiz 10=17 (L	,			2, and 57 lb down							JU,	AN
	Max Uplift 7=-100 (L	,	l)		nd 6 lb down and 3 lb up at 3-6-12						24	GAF	
FORCES	(lb) - Maximum Con	pression/Maximum	,		on bottom chord.						- *		17 <u>-</u>
	Tension				ction device(s) is		0				-	÷	:~ T
OP CHORD	1-2=0/27, 2-3=-367/		1		CASE(S) section						= 7	NUM	BER :
	4-5=-367/94, 5-6=0/	27, 2-10=-307/86,		of the truss	are noted as from	t (F) or ba	ck (B).					C: E-2000	162101
	5-7=-307/85		_ L	OAD CASE(S)	Standard						1		
BOT CHORD	9-10=-64/299, 8-9=-		9 1) Dead + Ro	of Live (balanced	d): Lumber	Increase=1.	15,				1. So	
VEBS	3-9=-30/89, 3-8=-8/8	8, 4-8=-32/89		Plate Incre								IN ON	ALEIN
IOTES				Uniform Lo								- 1111	111 ¹ .
	ed roof live loads have	been considered fo	r		2=-70, 2-3=-70, 3·	-4=-70, 4-	5=-70, 5-6=-7	0,					110.
this design	1. CE 7-16; Vult=115mph	(2 cocond quet)		7-10=-20								, initia	
			Cat		ted Loads (lb)	-2 (E)						NAU	GARCIN
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.				vent 9=	3 (F), 8=3 (F), 12	.=3 (٢)						N 50	No

- 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.

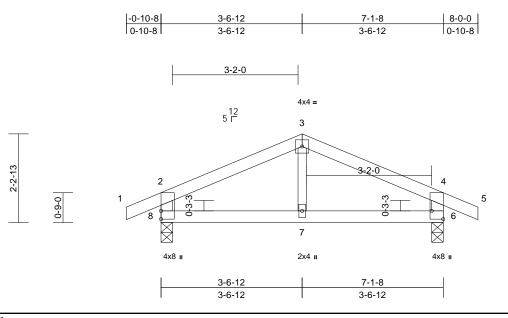


Page: 1

MiTek[®] 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR		
RR117	G2	Common	2	1	Job Reference (optional)	148527915	

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Oct 26 12:47:51 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:29.1

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

					-	· · · ·					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	TC	0.21	Vert(LL)	-0.01	7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	7-8	>999	240	Weight: 21 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=379/0-3-8, 8=379/0-3-8 Max Horiz 8=-15 (LC 13) Max Uplift 6=-63 (LC 9), 8=-63 (LC 8) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/27, 2-3=-333/49, 3-4=-333/48, 4-5=0/27, 2-8=-328/85, 4-6=-328/85 7-8=-4/254, 6-7=-4/254
- BOT CHORD WEBS 3-7=0/123

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 63 lb uplift at joint 8 and 63 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 Wint PRUM JUAN GARCIA NUMBER F -2000162101 C 3 E ONAL 1111 DCtober 27,202 JGIT October 27,2021

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Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	H1	Hip Girder	1	1	Job Reference (optional)	148527916
Wheeler Lumber, Waverly, KS - 6	Run: 8.43 S Oct 11 2	021 Print: 8.4	430 S Oct 11	2021 MiTek Industries, Inc. Tue Oct 26 12:47:51	Page: 1	

3-0-3

Loading

TCDL

BCLL

TCLL (roof)

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Oct 26 12:47:51 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-10-8 5-5-4 10-0-0 14-6-12 20-0-0 4-6-12 5-5-4 5-5-4 4-6-12 0-10-8 NAILED NAILED NAILED NAILED NAILED NAILED NAILED 6x6 = 2x4 ı 6x6 = 12 5 Г 3 15 5 12 13 4 14 0-1-6 φ \bowtie \sim \times 2 ℣ℙℿ ПТ ΠГ 2-10-13 2-10-13 8x8 👟 6 0-6-0 ПП ΠΓ 10 16 17 9 18 19 8 8x8 -5x6 = 3x10 =5x6 = NAILED NAILED NAILED NAILED Special NAILED Special 10-0-0 20-0-0 5-4-0 14-8-0 5-4-0 4-8-0 4-8-0 5-4-0 Scale = 1:42.3 Plate Offsets (X, Y): [6:0-3-12,0-2-12], [8:0-2-8,0-2-8], [10:0-2-8,0-2-8], [11:0-3-12,0-2-12] PLATES Spacing 2-0-0 CSI DEFL in (loc) l/defl L/d GRIP (psf) Plate Grip DOL 25.0 1.15 тс 0.87 Vert(LL) -0.15 8-9 >999 360 MT20 197/144 10.0 Lumber DOL 1.15 BC 0.88 Vert(CT) -0.28 8-9 >831 240

BCDL		10.0	Code	IRC2018	3/TPI2014
LUMBER TOP CHORD BOT CHORD WEBS	2x4 SPF I 2x4 SPF I 2x3 SPF I No.2	No.2	ot* 11-2,7-6:2x6 SPI	5) F 6)	* This tru on the bo 3-06-00 t chord an Refer to o
BRACING TOP CHORD	Structural 2-7-4 oc p	ourlins, exc	athing directly applie ept end verticals, ar ·8 max.): 3-5.	7) d or	Provide r bearing p joint 11 a This truss
BOT CHORD			applied or 10-0-0 oc		Internatio R802.10.
REACTIONS	Max Horiz	11=1743/0 11=24 (LC		9)	Graphica or the ori bottom cl) "NAILED
FORCES			pression/Maximum		(0.148"x3) Hanger(s)
TOP CHORD	1-2=0/30, 4-5=-3582	2/397, 5-6=	/345, 3-4=-3582/397 -3121/343, =-1594/184	7 ,	provided lb down a lb up at of such c
BOT CHORD		07/602, 9-1 2813, 7-8=	0=-294/2800, -61/478	12	others.) In the LO
WEBS	3-10=0/33	33, 3-9=-81 60, 5-8=0/3	/968, 4-9=-695/180, 325, 2-10=-233/2271		of the true OAD CASE Dead +
NOTES 1) Unbalance	ed roof live l	oads have	been considered for	,	Plate In Uniform

0.0

Rep Stress Incr

NO

- 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); 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.

s truss has been designed for a live load of 20.0psf e bottom chord in all areas where a rectangle -00 tall by 2-00-00 wide will fit between the bottom d and any other members.

0.81

Horz(CT)

Wind(LL)

0.05

0.10

7

9 >999

n/a n/a

240

Weight: 71 lb

FT = 10%

to girder(s) for truss to truss connections.

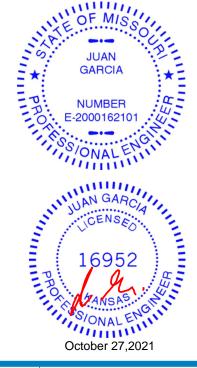
WB

Matrix-S

- ide mechanical connection (by others) of truss to ing plate capable of withstanding 176 lb uplift at 11 and 160 lb uplift at joint 7.
- truss is designed in accordance with the 2018 national Residential Code sections R502.11.1 and 10.2 and referenced standard ANSI/TPI 1.
- hical purlin representation does not depict the size e orientation of the purlin along the top and/or m chord.
- LED" indicates 3-10d (0.148"x3") or 3-12d 8"x3.25") toe-nails per NDS guidlines.
- ger(s) or other connection device(s) shall be ded sufficient to support concentrated load(s) 344 wn and 77 lb up at 5-5-4, and 344 lb down and 77 at 14-6-0 on bottom chord. The design/selection ch connection device(s) is the responsibility of
- e LOAD CASE(S) section, loads applied to the face e truss are noted as front (F) or back (B).
- ASE(S) Standard
 - d + Roof Live (balanced): Lumber Increase=1.15, te Increase=1.15 iform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 7-11=-20 Concentrated Loads (lb)

Vert: 3=-94 (F), 5=-94 (F), 10=-344 (F), 9=-44 (F), 4=-94 (F), 8=-344 (F), 12=-94 (F), 13=-94 (F), 14=-94 (F), 15=-94 (F), 16=-44 (F), 17=-44 (F), 18=-44 (F), 19=-44 (F)



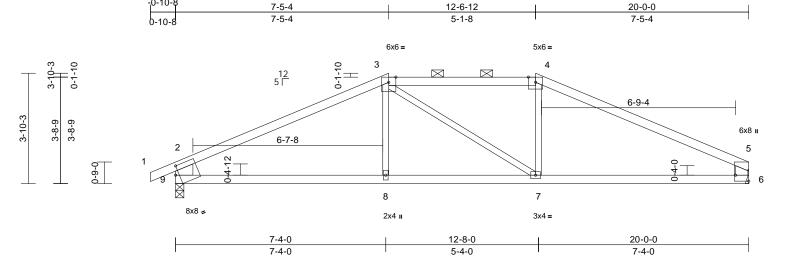


Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	H2	Hip	1	1	Job Reference (optional)	148527917

-0-10-8

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:52 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40.2

Plate Offsets (X, Y): [5:Edge,0-5-8], [9:0-1-8,0-3-9]

		[0.0 1 0,0 0 0]											
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	0.99 0.71 0.15	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.15 -0.28 0.04	(loc) 7-8 7-8 6	l/defl >999 >848 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code	IRC2018/	/TPI2014	Matrix-S	0.10	Wind(LL)	0.06	7-8	>999	240	Weight: 61 lb	FT = 10%
FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this desigr 2) Wind: ASC Vasd=91n II; Exp C; I and right e Lumber DU 3) Provide ac 4) This truss chord live 5) * This trus on the bot 3-06-00 ta chord and	2x4 SPF No.2 2x3 SPF No.2 *Exce 6-5:2x6 SP 2400F 2. Structural wood she except end verticals (4-10-5 max.): 3-4. Rigid ceiling directly bracing. (lb/size) 6=874/ Mr Max Horiz 9=28 (LC Max Uplift 9=-16 (LC (lb) - Maximum Com Tension 1-2=0/32, 2-3=-1374 4-5=-1368/18, 2-9=- 8-9=0/1162, 7-8=0/1 3-8=0/237, 3-7=-158 ed roof live loads have	athing directly applie and 2-0-0 oc purlins applied or 10-0-0 oc echanical, 9=961/0-3 10) : 4) pression/Maximum 1/21, 3-4=-1163/35, 872/61, 5-6=-765/48 158, 6-7=0/1166 1/165, 4-7=0/221 been considered for (3-second gust) DL=6.0psf; h=25ft; C velope); cantilever le left and right exposed u=1.60 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	8) d, 9) 5 LO -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8	bearing plate 9. This truss is International R802.10.2 ar Graphical pu		standing 1 ordance wi e sections andard AN on does no	6 lb uplift at th the 2018 R502.11.1 a ISI/TPI 1. ot depict the	joint and				PROTICE	BER 162101

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



October 27,2021

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	НЗ	Нір	1	1	Job Reference (optional)	148527918

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:52 Page: 1 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 10-6-12 9-5-4 3-7-2 16-4-14 20-0-0 1-1-8 5-10-2 3-7-2 5-10-2 3-7-2 18-9-8 6x6 = 5x6 = 0-1-10 H 3 4 12 5 Г 2x4 🕿 2x4 = 4-8-3 4-6-9 4-6-9 2 5 \square 6x8 II 6x8 II 1 6 0-6-0 10 7 9 8 4x8 = 3x4 = 10-8-0 1-4-0 20-0-0 9-4-0 9-4-0 9-4-0

Scale = 1:44.3

Plate Offsets (X, Y): [1:0-4-10,0-3-0], [6:0-4-10,0-3-0]

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/TPI2	CSI TC BC WB 014 Matrix-S	0.98 0.68 0.24	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.17 -0.34 0.04 0.08	(loc) 8-9 7-8 7 8-9	l/defl >999 >680 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 70 lb	GRIP 197/144 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 *Exce Structural wood she except end verticals (5-4-1 max.): 3-4. Rigid ceiling directly	athing directly applie , and 2-0-0 oc purlin	bear 10 a DSS 8) This Inter ed, R80 s 9) Grap or th c botto	ide mechanical conne- ing plate capable of wi nd 10 lb uplift at joint 7 truss is designed in ac national Residential C 2.10.2 and referenced bical purlin represent e orientation of the pur om chord.	ithstanding 1 7. ccordance wi ode sections standard AN ation does no	0 lb uplift at j th the 2018 R502.11.1 a ISI/TPI 1. ot depict the s	oint				1111	Mich
bracing. REACTIONS (lb/size) 7=873/ Mechanical, 10=873/0-3-8 Max Horiz 10=26 (LC 10) Max Uplift 7=-10 (LC 9), 10=-10 (LC 8) LOAD CASE(S) Standard											AN AN	
FORCES	(lb) - Maximum Com Tension 1-2=-1414/77, 2-3=-	pression/Maximum	26							Ē*	. GAR	CIA *
BOT CHORD	4-5=-1160/4, 5-6=-1- 6-7=-762/57 9-10=-75/1214, 8-9=	414/77, 1-10=-763/5	57,							PHU	NUM E-2000	• 41.
WEBS	2-9=-258/133, 3-9=- 4-8=0/206, 5-8=-259	25/269, 4-9=-163/17								1	SSION	ALENGIII
, this desigr			r									
 1) Orbital accert root 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); 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. 16952 m 												
 4) This truss chord live 5) * This trus on the both 	 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. * 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. irder(s) for truss to trus										SSION	ALENGIN

4 mm October 27,2021



Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	H4	Common	4	1	Job Reference (optional)	148527919

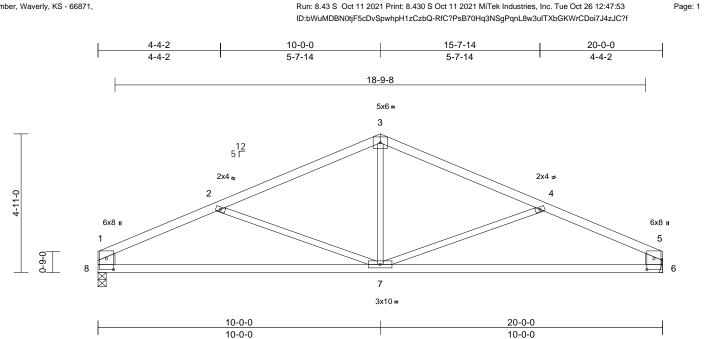


Plate Offsets (X, Y): [1:0-4-10.0-3-0]. [5:0-4-10.0-3-0]

		,[]										
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	0.81	Vert(LL)	-0.19	7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.37	6-7	>628	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	7	>999	240	Weight: 64 lb	FT = 10%

- LUMBER
- TOP CHORD
- 2x4 SPF No.2
- BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 *Except* 8-1,6-5:2x8 SP DSS WEBS
- 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.

LOAD CASE(S) Standard

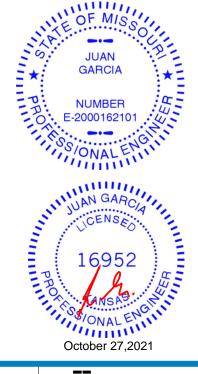
BRACING		
TOP CHORD		wood sheathing directly applied or
	3-3-5 oc p	ourlins, except end verticals.
BOT CHORD	Rigid ceili	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(lb/size)	6=873/ Mechanical, 8=873/0-3-8
	Max Horiz	8=29 (LC 8)
	Max Uplift	6=-12 (LC 9), 8=-12 (LC 8)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	

TOP CHORD 1-2=-1414/76, 2-3=-1103/14, 3-4=-1103/14, 4-5=-1414/77, 1-8=-758/60, 5-6=-758/60

BOT CHORD 7-8=-72/1216, 6-7=-43/1216 WEBS 3-7=0/434, 4-7=-331/139, 2-7=-331/139

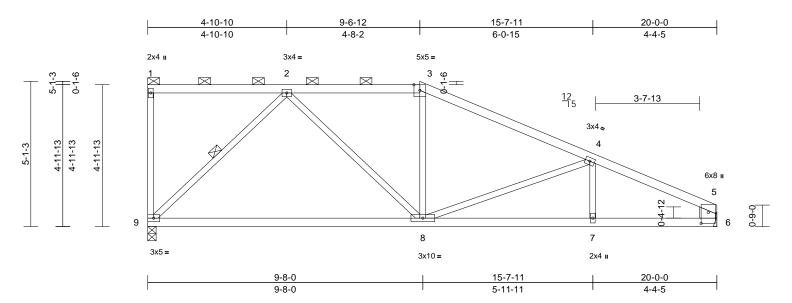
NOTES

- 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); 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.
- Refer to girder(s) for truss to truss connections. 5)
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 12 lb uplift at joint 8 and 12 lb uplift at joint 6.



Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	H5	Half Hip	1	1	Job Reference (optional)	148527920

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:54 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:40.5

Plate Offsets (X, Y): [5:0-4-10,0-3-0]

Leading TCLL (roof) (pat) (pat) Spacing Plates Grp Dol. (pat) Spacing Plates Grp Dol. (pat) 2-0-0 (pat) CSi TC CSi TC CSi TC Display (pat) Display (pat) Plates (pat) Plates (pat) GRIP (pat) UMBER FOC CORD 0.00 (pat) Pates Grp Dol. (pat) 1:5 (pat) TC 0.00 (pat) Plates Grp Dol. (pat) 1:00 (pat) 1:00 (p		(,,, ,). [0.0 1 10]0 0 0	1											
TCDL 10.0 Imper DoL 1.15 BC 0.67 Ver(CT) 0.41 8-9 559 240 BCDL 10.0 Rep Stress for YES MarkovS 0.41 Horz(CT) 0.02 6 na ná	Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCDL 0.0 Lumber DOL 1.15 BC 0.67 Ver(CT) 0.41 8-9 >569 240 BCDL 10.0 Code Rep Stress for YES Matrix-S 0.41 Ver(CT) 0.44 8-9 >569 240 BCDL 10.0 Code Rep Stress for YES Matrix-S 0.41 Ver(CT) 0.44 8-9 >569 240 LUMBER Code 10.0 Code 7 Provide mechanical connection (ty others) to bearing plate capable of vitrus to bearing plate capable of vitrus and capable of vitrus and capable of vitrus to bearing plate capable of vitrus to bearing vitrus to the capable of vitrus to the capable vitrus vitr	TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.60	Vert(LL)	-0.20	8-9	>999	360	MT20	197/144
BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Wind(LL) 0.06 7.8 >999 240 Weight: 7.2 is FT = 10% LUMBER TOP CHORD 2x4 SPF No.2 Except 6-5:2x8 SP DSS Partial connection (by others) of truss to bearing plate capable of withstanding 43 is upfit at joint 9 and 12 is upfit at joint 6. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 is upfit at joint 9 and 12 is upfit at joint 6. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 is upfit at joint 9 and 12 is upfit at joint 6. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 is upfit at joint 9 and 12 is upfit at joint 6. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 is upfit at joint 9 and 12 is upfit at joint 6. 7) Provide mechanical connection (by others) of truss to bearing plate of the others and dat NSI/TPI 1. 1) This truss has bear head plate the plate of the plate of the plate of the others and the others an						BC	0.67		-0.41					
BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Wind(LL) 0.06 7.8 >999 240 Weight: 7.2 is FT = 10% LUMBER TOP CHORD 2x4 SPF No.2 Except 6-5:2x8 SP DSS Partial connection (by others) of truss to bearing plate capable of withstanding 43 is upfit at joint 9 and 12 is upfit at joint 6. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 is upfit at joint 9 and 12 is upfit at joint 6. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 is upfit at joint 9 and 12 is upfit at joint 6. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 is upfit at joint 9 and 12 is upfit at joint 6. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 is upfit at joint 9 and 12 is upfit at joint 6. 7) Provide mechanical connection (by others) of truss to bearing plate of the others and dat NSI/TPI 1. 1) This truss has bear head plate the plate of the plate of the plate of the others and the others an	BCLL	0.0*	Rep Stress Incr	YES		WB	0.41	Horz(CT)	0.02	6	n/a	n/a		
 TOP CHORD 2x4 SPF No.2 Bort CHORD 2x4 SPF No.2 "Except" 6-5:2x8 SP DSS BRACING TOP CHORD Structural wood sheathing directly applied or 40-012 op putine, except end verticals, and 40-12 op putine, except end verticals, and 20-00 op putine (5-89 max); 1-3. BOT CHORD Rijd ceiling directly applied or 10-0-00 bracing. WEBS 1 Row at midpt 2-9 REACTIONS (Disize) 6-862/Mechanical, 9-882/0-3-8 Max Hoirs 9156 (CL 4) Max Upitif 6-12 (CL 9), 943 (CL 4) FORCES (b) - Maximum Compression/Maximum Tension TOP CHORD 1-9-14/136, 1-2-66/39, 2-3-9-979/34, 3-4-5-1136/29, 4-5-8-13/02, 0-7-13/1230 MOTES 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vull-115mp (3-second gust) Vasd-91mph; TODL=60, 05; fb:Cl.a. 6, 05; fb					PI2014		-	· · ·					Weight: 72 lb	FT = 10%
chord and any other members.	LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalance this desigr 2) Wind: ASC Vasd=91n II; Exp C; and right e Lumber D 3) Provide ac 4) This truss chord live 5) * This trus on the bot	2x4 SPF No.2 2x4 SPF 2100F 1.8E 2x3 SPF No.2 *Exce Structural wood she 4-0-12 oc purlins, e 2-0-0 oc purlins, e Rigid ceiling directly bracing. 1 Row at midpt (Ib/size) 6=882/ M Max Horiz 9=-155 (L Max Uplift 6=-12 (LC (Ib) - Maximum Com Tension 1-9=-141/35, 1-2=-6 3-4=-1135/23, 4-5=- 8-9=-2/687, 7-8=-13 2-9=-944/90, 2-8=0/ 4-8=-270/104, 4-7=- ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; AWFRS (er Enclosed; end vertical I OL=1.60 plate grip DC dequate drainage to pr has been designed foi load nonconcurrent wi shas been designed foi	Provide mech pearing plate 9 and 12 lb u This truss is o nternational R802.10.2 ar Graphical pu for the orienta pottom chord	hanical connection capable of withs plift at joint 6. designed in acco Residential Code nd referenced sta rlin representatio titon of the purlin I.	tanding 4 rdance wi sections indard AN n does no	ers) of truss t 3 lb uplift at j ith the 2018 5 R502.11.1 a ISI/TPI 1. ot depict the s	to joint and	7-8		111 * Philip	JUA GAR NUMI SS/ON/	MISSOUD CIA BER 62101 ALENG		
			ss connections.											

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

October 27,2021

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	H6	Half Hip	1	1	Job Reference (optional)	148527921

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:55 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

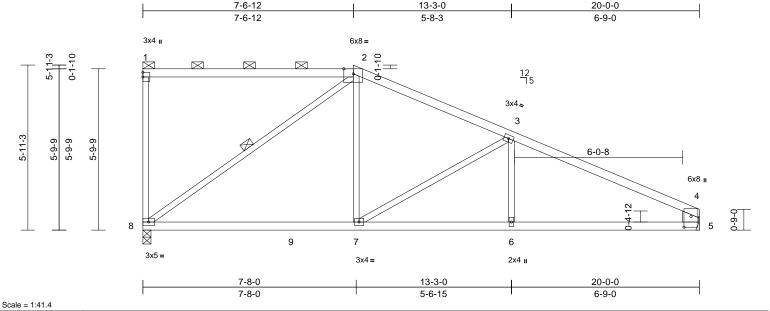


Plate Offsets (X, Y): [2:0-4-2.Edge], [4:0-4-10.0-3-0]

Plate Olisets ((X, Y): [2:0-4-2,Edge],	[4:0-4-10,0-3-0]			-								
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) TCDL	25.0	Plate Grip DOL	1.15		TC BC	0.90	Vert(LL)	-0.15	6-7	>999	360	MT20	197/144
BCLL	10.0 0.0*	Lumber DOL Rep Stress Incr	1.15 YES		WB	0.91 0.82	Vert(CT) Horz(CT)	-0.26 0.03	7-8 5	>888 n/a	240 n/a		
BCLL BCDL	10.0	Code		8/TPI2014	Matrix-S	0.02	Wind(LL)	0.03	6-7	>999	240	Weight: 72 lb	FT = 10%
	1010	0000		0,1112011				0.00			2.0	110igitti 12 io	1070
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF No.2 2x3 SPF No.2 *Exce Structural wood she 3-11-0 oc purlins, e 2-0-0 oc purlins (3-9 Rigid ceiling directly bracing. 1 Row at midpt (lb/size) 5=882/ M/ Max Horiz 8=-182 (L Max Uplift 5=-18 (LC	athing directly applie xcept end verticals, -12 max.): 1-2. applied or 10-0-0 o 2-8 echanical, 8=882/0- C 4) 2 9), 8=-41 (LC 4)	7) S 8) ed or and 9) c L	 Provide med bearing plat 8 and 18 lb This truss is Internationa R802.10.2 a Graphical point 		on (by oth standing 4 ordance w le sections andard AN on does no	ers) of truss 1 lb uplift at th the 2018 R502.11.1 a ISI/TPI 1. ot depict the	joint and				S. JU GAF	
ORCES	Max Grav 5=918 (LC (lb) - Maximum Com Tension										EP	NUM	
TOP CHORD												E-2000	• []].
BOT CHORD WEBS		240, 5-6=0/1240										SSION	ALENGII
NOTES													10.5
 Unbalance this design 		r									1111AN	GARC	
Vasd=91n II; Exp C; and right e Lumber D 3) Provide ad	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er exposed ; end vertical I iOL=1.60 plate grip DO dequate drainage to pr has been designed for	DL=6.0psf; h=25ft; (hvelope); cantilever left and right expose DL=1.60 event water ponding	left ed;								MILLI.	UCE	952

- 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, with BCDL = 10.0psf.

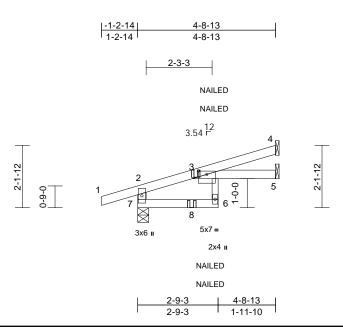
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



ANSAS ONAL ENGINE

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	J1	Diagonal Hip Girder	2	1	Job Reference (optional)	148527922

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:56 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:39.6 Plate Offsets (X, Y): [3:0-3-8.0-1-6]

Plate Offsets (X, Y): [3:0-3-8,0-1-6]												
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 NO IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.40 0.28 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.04 -0.09 0.04 0.05	(loc) 6 5 6	l/defl >999 >615 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 14 lb	GRIP 197/144 FT = 10%
BCDL 10.0 Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.05 6 >999 240 Weight: 14 lb FT = 10% LUMBER TOP CHORD 2x4 SPF No.2 Except* 6-3:2x3 SPF No.2 Structural wood sheathing directly applied or 60-00 cordinates 3:100 (0.148'x3) or 2:12d (0.148'x3) or 2:12d (0.148'x3.25') toe-nails per NDS guidlines. 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) "NALED" indicates 3:100 (0.148'x3) or 2:12d (0.148'x3) or 2:12d (0.148'x3.25') toe-nails per NDS guidlines. 6) In the LOAD CASE(S) Scion.loads applied to the face of the truss are noted as front (F) or back (B). BOT CHORD REACTIONS (Ib/size) 4=122/ Mechanical, 5=72/ Mechanical, 7=319/0-4-9 Max Horiz 7=68 (LC 4), T==68 (LC 4), T==58 (LC 1), Sets (LC 2), T==58 (LC 1), Sets (LC 2), T==58 (LC 2), T==50 (LC 1), Sets (LC 2), T==56 (LC 2), T==50 (LC 1), Sets (LC 2), T==56 (LC 2), T==50 (LC 1), Sets (LC 2), Sets (LC 2), T==50 (LC 2), Sets (L												
 right exposition 2) This truss chord live chord live on the bot 3-06-00 ta chord and 4) Refer to gi 5) Provide m bearing place 	left and right exposed sed; Lumber DOL=1.6 has been designed for load nonconcurrent w is has been designed tom chord in all areas ill by 2-00-00 wide will any other members. irder(s) for truss to tru- echanical connection ate capable of withsta b uplift at joint 4.	30 plate grip DOL=1.6 or a 10.0 psf bottom <i>i</i> th any other live load for a live load of 20.0 where a rectangle I fit between the botto uss connections. (by others) of truss to	60 Js. psf m							WITHIN .	PROFILE	952 WSA9 NAL ENGINE

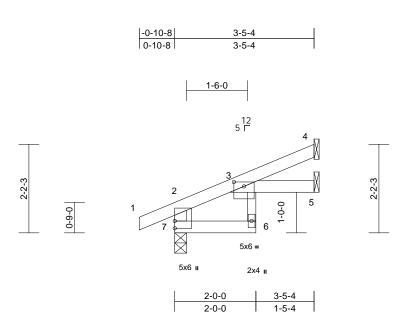


Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	J2	Jack-Open	7	1	Job Reference (optional)	148527923

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:57 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

October 27,2021

16023 Swingley Ridge Rd Chesterfield, MO 63017



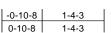
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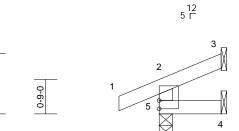
Plate Offsets (X, Y): [3:0-3-0,0-1-5]

1 1410 0110010 ((,,, ,). [e:e e e;e : e]											
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.17	DEFL Vert(LL)	in -0.01	(loc) 6	l/defl >999	L/d 360	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	· · ·	0.01	5	n/a	n/a		FT 400/
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	6	>999	240	Weight: 11 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 *Exce 2x4 SPF No.2 Structural wood she 3-5-4 oc purlins, ex Rigid ceiling directly bracing. (Ib/size) 4=87/ Me Mechanic Max Horiz 7=63 (LC Max Uplift 4=-38 (LC (LC 8) Max Grav 4=87 (LC	eathing directly applie ccept end verticals. / applied or 6-0-0 oc hchanical, 5=52/ cal, 7=234/0-3-8 8) C 8), 5=-3 (LC 8), 7=-	2 R802.10 LOAD CAS	ss is designed in acc onal Residential Cod 1.2 and referenced st E(S) Standard	de sections	R502.11.1 a	and				JU/ GAR	
FORCES	(LC 1) (Ib) - Maximum Con	npression/Maximum								=	NUM	BER A
	Tension	-									E-20001	162101
TOP CHORD BOT CHORD	2-7=-223/53, 1-2=0/ 6-7=-16/0, 3-6=0/47		24/28							1	- · ·	
NOTES	0-7=-10/0, 3-0=0/47	, 3-5=0/0									1.SSION	ENGIN
Vasd=91n II; Exp C; cantilever right expo	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6	CDL=6.0psf; h=25ft; (nvelope) exterior zor ; end vertical left and 60 plate grip DOL=1.6	ne; d								IN JUAN	GARCIA II
	has been designed fo load nonconcurrent w		ds								CE	NSED
 This trus on the bot 3-06-00 ta chord and Refer to gi Provide m bearing pla 	is has been designed if atom chord in all areas all by 2-00-00 wide will any other members. irder(s) for truss to tru bechanical connection ate capable of withsta blift at joint 4 and 3 lb to	for a live load of 20.0 where a rectangle fit between the botto uss connections. (by others) of truss to nding 30 lb uplift at jo	psf om o							THINK.	PRO 16	952
											· · · · · · ·	11111

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	J3	Jack-Open	12	1	Job Reference (optional)	148527924

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:57 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





1-3-12



5x6 🛛

1-4-3

Scale = 1:25.1

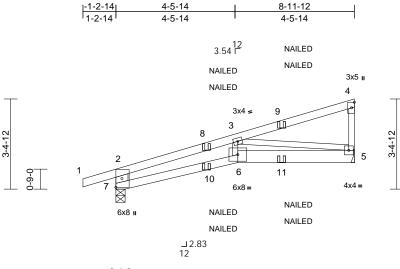
TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) 0.00 4-5 >999 3 TCDL 10.0 Lumber DOL 1.15 BC 0.02 Vert(CT) 0.00 4-5 >999 3 BCL 0.0* Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a i BCDL 10.0 Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.00 4-5 >999 2 LUMBER 10.0 Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.00 4-5 >999 2 LUMBER 10.0 Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.00 4-5 >999 2 LUMBER TOP CHORD 2x4 SPF No.2 WES 2x4 SPF No.2 WES 2x4 SPF No.2 BOT CHORD Structural wood sheathing directly applied or 1-4-3 oc purins, except end verticals. BOT CHORD 807 CHORD 807 CHORD 319/ Mechanical, 4=4/ Machanical, 5=156/0-3-8 Max Horiz 5=33 (LC 5) Max Horiz 5=33 (LC 1), 4=20 (LC 3), 5=156											
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	PLATES GRIP MT20 197/144 40 Veight: 5 lb FT = 10%										
Mechanical, 5=156/0-3-8 Max Horiz 5=33 (LC 5) Max Uplift 3=-17 (LC 8), 5=-36 (LC 4) Max Grav 3=19 (LC 1), 4=20 (LC 3), 5=156 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 2-5=-136/46, 1-2=0/27, 2-3=-25/4	TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 BRACING Structural wood sheathing directly applied or 1-4-3 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0 oc bracing. REACTIONS (lb/size) 3=19/ Mechanical, 4=4/										
Tension TOP CHORD 2-5=-136/46, 1-2=0/27, 2-3=-25/4	JUAN GABCIA										
Max Grav 3=19 (LC 1), 4=20 (LC 3), 5=156 (LC 1) FORCES (Ib) - Maximum Compression/Maximum Tension											

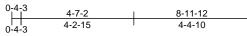


Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	J4	Diagonal Hip Girder	1	1	Job Reference (optional)	148527925

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:58 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:43.4

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	TC	0.83	Vert(LL)	-0.12	6	>901	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.20	6	>508	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.06	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI20	14 Matrix-S		Wind(LL)	0.10	6	>994	240	Weight: 32 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2 *Exce 2x3 SPF No.2 *Exce Structural wood she 4-2-11 oc purlins, e		2 Intern 8) "NAIL (0.14) 1 or 9) In the of the	russ is designed in ac ational Residential CC 10.2 and referenced s ED" indicates 3-10d ("x3.25") toe-nails per LOAD CASE(S) secti truss are noted as fro	ode sections standard AN 0.148"x3") o NDS guidli ion, loads a	R502.11.1 a NSI/TPI 1. or 2-12d nes. pplied to the	and					
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc		SE(S) Standard d + Roof Live (balance)	ed): Lumbei	Increase=1	.15,					
REACTIONS	(lb/size) 5=450/ M Max Horiz 7=123 (L0 Max Uplift 5=-109 (L (lb) - Maximum Com	.C 8), 7=-139 (LC 4)	Unif V Con	e Increase=1.15 orm Loads (lb/ft) ert: 1-2=-70, 2-4=-70, centrated Loads (lb) ert: 9=-59 (F=-30, B=-	,					11	XA.E.OF	MISSOU

Tension TOP CHORD 2-7=-647/208, 1-2=0/29, 2-3=-1079/256, 3-4=-122/35, 4-5=-193/81 BOT CHORD 6-7=-283/985, 5-6=-270/997 WEBS 3-6=0/287, 3-5=-951/274

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.
- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 7 and 109 lb uplift at joint 5.

Vert: 9=-59 (F=-30, B=-30), 10=-1 (F=0, B=0 11=-41 (F=-21, B=-21)

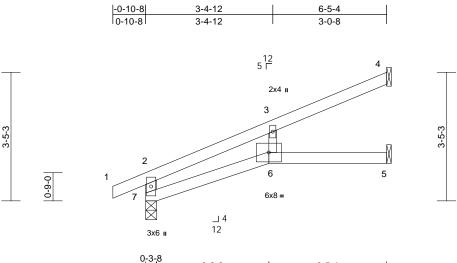




Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	J5	Jack-Open	13	1	Job Reference (optional)	148527926

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:47:59 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:30.8

00010 = 1.00.0												
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.41	DEFL Vert(LL)	in -0.11	(loc) 6	l/defl >672	L/d 360	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.20	6-7	>371	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.07	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.09	6-7	>851	240	Weight: 18 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2 2x4 SPF No.2 *Exce Structural wood she	athing directly applie	International R802.10.2 a 2 LOAD CASE(S)	designed in accor Residential Code nd referenced star Standard	sections	R502.11.1 a	and					
BOT CHORD	6-0-0 oc purlins, exe Rigid ceiling directly bracing.											
REACTIONS	()									1	LATE OF	MISSOU
FORCES	(lb) - Maximum Com Tension	pression/Maximum								E	JU/ GAR	
TOP CHORD	2-7=-251/16, 1-2=0/2 3-4=-27/56	27, 2-3=-76/20,								E *	Grift	*
BOT CHORD	,									= 7	NUM	BER :
WEBS	3-6=-90/62										E-20001	62101 :41
NOTES										1	1	
Vasd=91n II; Exp C; and right e Lumber D	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er exposed ; end vertical I OL=1.60 plate grip DO	DL=6.0psf; h=25ft; C hvelope); cantilever le left and right expose PL=1.60	eft								SS/ON/	
	has been designed for load nonconcurrent wi		łe								IN AN C	GARO
 This trus on the bot 3-06-00 ta chord and 	ss has been designed fi tom chord in all areas ' all by 2-00-00 wide will any other members. irder(s) for truss to tru:	or a live load of 20.0 where a rectangle fit between the botto	psf							1111	PR 16	NSEO
5) Bearing at using ANS designer s	t joint(s) 7 considers pa SI/TPI 1 angle to grain should verify capacity c	arallel to grain value formula. Building of bearing surface.								1111	PRO	952 hai
bearing pl	echanical connection (ate capable of withstar uplift at joint 4.										Octobe	AL ENGLIN

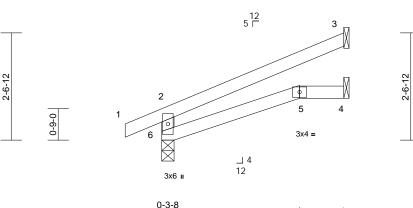


Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	J6	Jack-Open	2	1	Job Reference (optional)	148527927

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:48:00 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f









Scale = 1:27.5

oodio = hErio												
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	0.25	Vert(LL)	-0.01	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.03	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	· · ·	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R	0.00	Wind(LL)	0.02	5-6	>999	240	Weight: 12 lb	FT = 10%
		cept end verticals. applied or 6-0-0 oc echanical, 4=49/ al, 6=267/0-3-8 8) c 8), 6=-36 (LC 8)	R802.10.2 a LOAD CASE(S)	Residential Cod nd referenced sta	e sections	s R502.11.1 a	and			n _{in} .	JUA	
Vasd=91m II; Exp C; E cantilever I	(lb) - Maximum Com Tension 2-6=-233/76, 1-2=0/. 5-6=-28/8, 4-5=0/0 CE 7-16; Vult=115mph hph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed	27, 2-3=-69/38 (3-second gust) DL=6.0psf; h=25ft; (ivelope) exterior zon ; end vertical left and	ie; d							* 85.	GAR NUME E-20001	BER U
 This truss I chord live I * This truss on the bott 3-06-00 tal chord and Refer to gii Bearing at using ANS designer sI Provide me bearing pla 	sed; Lumber DOL=1.6 has been designed foi load nonconcurrent wi s has been designed f iom chord in all areas Il by 2-00-00 wide will any other members. rder(s) for truss to tru joint(s) 6 considers pa (J/TPI 1 angle to grain hould verify capacity of echanical connection (ate capable of withstar p uplift at joint 3.	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 ss connections. arallel to grain value formula. Building of bearing surface. (by others) of truss to	ds. psf om							. annua	PROCESSION	BARCIA NSEO 952

October 27,2021



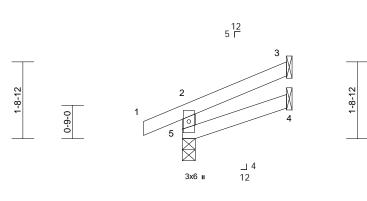
Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	J7	Jack-Open	2	1	Job Reference (optional)	148527928

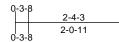
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0-10-8

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:48:01 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





2-4-3

2-4-3

Scale = 1:26

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	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	4-5	>999	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-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%
	Mechanic	cept end verticals. applied or 6-0-0 oc chanical, 4=20/ al, 5=185/0-3-8	Internationa R802.10.2 a LOAD CASE(S)	designed in accor I Residential Code and referenced star Standard	sections	R502.11.1 a	and				INTE OF	MISSO
	Max Horiz 5=45 (LC 5) Max Uplift 3=-35 (LC 8), 5=-31 (LC 4) Max Grav 3=59 (LC 1), 4=39 (LC 3), 5=185 (LC 1) GARCIA											
FORCES	(lb) - Maximum Com	pression/Maximum								- *		*=
TOP CHORD	Tension 2-5=-162/50, 1-2=0/	27 2 2 - 27/17								= 11	i	
BOT CHORD	2-5=-162/50, 1-2=0/ 4-5=-15/10	27, 2-3=-37/17								= 5	NUM	• 41.
NOTES	4-3=-13/10									-1	E-2000	162101
	CE 7-16; Vult=115mph	(3-second quet)								1	~~· -·	
Vasd=91m II; Exp C; I cantilever	hph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6	DL=6.0psf; h=25ft; (nvelope) exterior zor ; end vertical left an	ne; d								SS/ON	AL ENGIN
	has been designed fo											
	load nonconcurrent w										NAU	GARCIA
on the bott 3-06-00 ta	 * 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.											
	joint(s) 5 considers pa I/TPI 1 angle to grain										P	
designer s	hould verify capacity of	of bearing surface.									3	Ma. # 5
bearing pla	echanical connection ate capable of withstan o uplift at joint 3.										KSSION	SAS ON IN

October 27,2021

16023 Swingley Ridge Rd Chesterfield, MO 63017

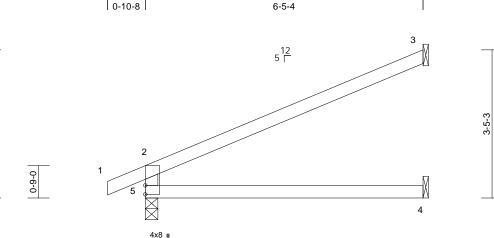
Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	J8	Jack-Open	5	1	Job Reference (optional)	148527929

-0-10-8

Wheeler Lumber, Waverly, KS - 66871,

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:48:02 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







6-5-4

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	TC	0.63	Vert(LL)	-0.07	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.16	4-5	>477	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.05	4-5	>999	240	Weight: 17 lb	FT = 10%

LUMBER

TOP CHORD BOT CHORD WEBS	2x4 SPF 2x4 SPF 2x4 SPF	No.2
BRACING	274 01 1	110.2
TOP CHORD		I wood sheathing directly applied purlins, except end verticals.
BOT CHORD		ing directly applied or 10-0-0 oc
REACTIONS	(lb/size)	3=196/ Mechanical, 4=78/

	Mechanical, 5=358/0-3-8
Max Horiz	5=80 (LC 8)
Max Uplift	3=-57 (LC 8), 5=-4 (LC 8)
Max Grav	3=196 (LC 1), 4=118 (LC 3), 5=358
	(LC 1)

applied or

3-5-3

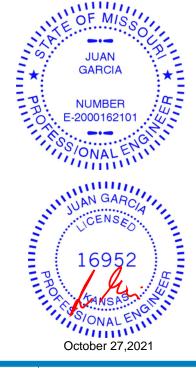
FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-311/56, 1-2=0/27, 2-3=-92/59 BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 5 and 57 lb uplift at joint 3.
- 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.

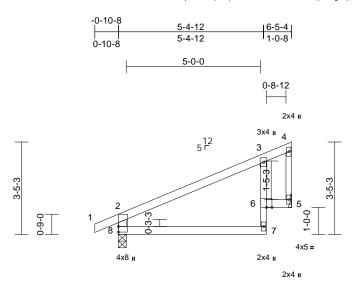
LOAD CASE(S) Standard

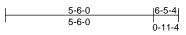




Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	J9	Jack-Closed	5	1	Job Reference (optional)	148527930

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Oct 26 12:48:02 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 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	0.29	Vert(LL)	-0.03	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.06	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	7-8	>999	240	Weight: 20 lb	FT = 10%

BOT CHORD	2x4 SPF No.2 *Except* 7-3:2x3 SPF No.2
WEBS	2x4 SPF No.2 *Except* 4-5:2x3 SPF No.2

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.
DEADTIONO	(lb/size) 5 070/ Mechanical 0 050/0 0 0

REACTIONS (lb/size) 5=273/ Mechanical, 8=356/0-3-8 Max Horiz 8=96 (LC 5) Max Uplift 5=-24 (LC 8), 8=-14 (LC 8)

FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	2-8=-313/51, 1-2=0/27, 2-3=-218/14,
	3-4=-55/27, 4-5=-43/0
BOT CHORD	7-8=-23/136, 6-7=0/107, 3-6=-162/75,
	5-6=-16/42

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); 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 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 14 lb uplift at joint 8 and 24 lb uplift at joint 5.
- 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.

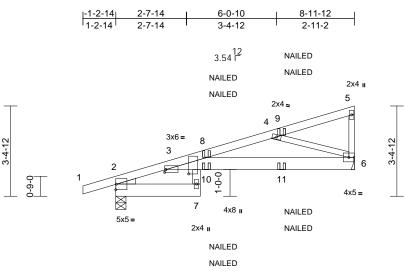
LOAD CASE(S) Standard

MIS 0 Wint PRUM JUAN GARCIA NUMBER F 2000162101 C 3 E ONAL IIIII DCtober 27,202 JGIT October 27,2021



Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	J10	Diagonal Hip Girder	1	1	Job Reference (optional)	148527931

Run: 8,43 S Jun 2 2021 Print: 8,430 S Jun 2 2021 MiTek Industries, Inc. Wed Oct 27 11:27:42 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-xh_EFUrMtd0zUViMY0BWOLeKEhLoF1XdFGOujZyPOT? Page: 1





Scale = 1:43.4

Plate Offsets (X, Y): [3:0-1-15,0-10-5], [3:0-0-8,0-1-4]

oading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL (roof)	(53)	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.20	(100)	>531	360	MT20	197/144
	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.39	7	>268	240		10//111
BCLL	0.0*	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2		0.21	Wind(LL)	0.23	7	>462	240	Weight: 36 lb	FT = 10%
DODL	10.0	Code	11(02010/1112		-		0.25		2402	240	Weight. 30 lb	11 = 1078
LUMBER TOP CHORD BOT CHORD		E	Ínter	truss is designed in accontrational Residential Cod 2.10.2 and referenced st	le sections	s R502.11.1 a	and					
WEBS	2x3 SPF No.2 *Exce	00+* 7 2.2v4 CDE No		LED" indicates 3-10d (0.								
VEDGE	Left: 2x3 SPF No.2 Exce	pt 7-5.2x4 SFF NU	· /	8"x3.25") toe-nails per N	, -							
BRACING	Len. 2x3 011 110.2			ELOAD CASE(S) sectio			face					
TOP CHORD	Structural wood she	othing directly opplie	·	e truss are noted as fron								
	6-0-0 oc purlins, ex	cept end verticals.	LOAD C	ASE(S) Standard	.,	. ,						111.
BOT CHORD	Rigid ceiling directly bracing.	applied or 6-0-0 oc	Pla	ad + Roof Live (balanced e Increase=1.15	d): Lumbei	r Increase=1.	15,				NE OF	MISS
REACTIONS	(lb/size) 2=567/0-4 Max Horiz 2=114 (L0	4-9, 6=479/ Mechani	icai	form Loads (lb/ft) /ert: 1-5=-70, 2-7=-20, 3	-6=-20					1	(P	
	Max Uplift 2=-162 (L			icentrated Loads (lb)						20	JU/	AN 22
ORCES	(lb) - Max. Comp./M		,	/ert: 9=-26 (F=-13, B=-13	3), 10=-32	(F=-16, B=-	16),			2.	GAR	
UNCES	(lb) or less except w			1=-87 (F=-44, B=-44)						- *	:	:*-
OP CHORD	· · ·									Ξ.	1	
BOT CHORD										= 7	NUM	BER :
	6-11=-265/743	,								- 7	E-2000	• 41.
VEBS	4-6=-753/296									-	A	
OTES										1	100	G
	CE 7-16; Vult=115mph	(3-second aust)									IN ON	ALENI
	nph; TCDL=6.0psf; BC		Cat.								1111	inn
	Enclosed; MWFRS (er											•
	left and right exposed											IIIII.
• •	sed; Lumber DOL=1.6		60								The IG	GARC
	has been designed for										1. 70	····· A ···
	load nonconcurrent wi										CE	NSEN
	s has been designed f tom chord in all areas		Jpst									~ \ =
	all by 2-00-00 wide will		m								1.1	
	any other members.	in between the bolic									: 16	952
	irder(s) for truss to trus	ss connections								=	- · · · ·	
	echanical connection (0							-	D.	
	ate capable of withstar										0.	14:45
	d 162 lb uplift at joint 2.										1 AN	VSAS
-											1, 5/00	IN ENIN
												AL
											Ontel	- 07 0004
											Uctobe	r 27,2021

- 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)
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 134 lb uplift at joint 6 and 162 lb uplift at joint 2.

MiTek° 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	J11	Jack-Open	5	1	Job Reference (optional)	148527932

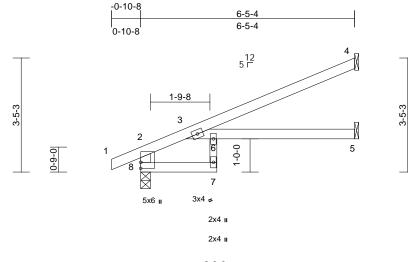
Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:48:03 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



.

October 27,2021

16023 Swingley Ridge Rd Chesterfield, MO 63017





Scale = 1:34.7

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	0.54 0.47 0.02	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.10 -0.20 0.11 0.08	(loc) 5-6 5-6 5 5-6	l/defl >765 >380 n/a >948	L/d 360 240 n/a 240	PLATES MT20 Weight: 18 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 *Exce Structural wood she 6-0-0 oc purlins, ex	ept* 7-6:2x3 SPF No.: athing directly applie cept end verticals. applied or 10-0-0 oc	Internationa R802.10.2 2 LOAD CASE(S	s designed in acco al Residential Code and referenced sta) Standard	e sections	8 R502.11.1 a	nd					
REACTIONS		8)	=370							in in	ATE OF JUA	
Vasd=91n II; Exp C; and right c Lumber D 2) This truss chord live 3) * This trus on the bot 3-06-00 ta chord and 4) Refer to g 5) Provide m	3-4=-55/58	27, 2-3=-114/0, 6=0/0 (3-second gust) DL=6.0psf; h=25ft; C ivelope); cantilever le left and right exposed DL=1.60 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 ss connections. (by others) of truss to	əft d; lis. posf m								NUME E-20001 SS/ON/ JCE 160 PROFISS/ON	BER 162101 ALENG SARCIA NSEO 952 HALENG

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	J12	Jack-Open	2	1	Job Reference (optional)	148527933

-0-10-8

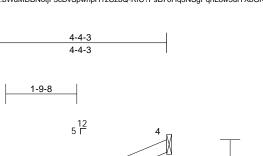
0-10-8

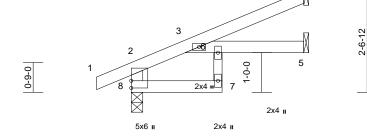
2-6-12

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:48:03 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:29.1

2)

3)

4) 5)

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

Refer to girder(s) for truss to truss connections.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 8, 50 lb uplift at joint 4 and 2 lb uplift at joint 5.

chord and any other members.

* 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

Scale = 1:29.1												
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	0.18	Vert(LL)	-0.02	7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.03	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	7	>999	240	Weight: 13 lb	FT = 10%
LUMBER			6) This truss i	s designed in acco	ordance w	ith the 2018						
TOP CHORD	2x4 SPF No.2			al Residential Cod			and					
BOT CHORD	2x4 SPF No.2 *Exce	ept* 7-6:2x3 SPF No	.2 R802.10.2	and referenced st	andard AN	ISI/TPI 1.						
WEBS	2x4 SPF No.2		LOAD CASE(S) Standard								
BRACING												
TOP CHORD		eathing directly applie	ed or									
	4-4-3 oc purlins, ex											
BOT CHORD	Rigid ceiling directly bracing.	/ applied or 10-0-0 o	С									
REACTIONS	0	lechanical, 5=72/									United and a second sec	1100
	Mechanic	cal, 8=277/0-3-8									NE OF	MISS
	Max Horiz 8=78 (LC	,								1		0,1
	Max Uplift 4=-50 (LC	C 8), 5=-2 (LC 8), 8=	-31							2	A	
	(LC 8)		277							2	JU/	
	Max Grav 4=112 (L (LC 1)	C 1), 5=00 (LC 3), 6	=211							= *	GAR	
FORCES	()	npression/Maximum										
TOROLO	Tension	npression/maximum								= 0	NUM	
TOP CHORD	2-8=-264/56, 1-2=0/	/27, 2-3=-132/0,								-5	E-2000	• 41.
	3-4=-37/36										E-2000	102101
BOT CHORD	7-8=-34/64, 6-7=0/4	7, 3-6=-64/34, 5-6=0	0/0							1	· · · · ·	- GN
NOTES											I.S/ON	NI ENIN
	CE 7-16; Vult=115mph		_								1111	Think
	nph; TCDL=6.0psf; BC											
	Enclosed; MWFRS (elleft and right exposed										IN UAN	11111
	sed; Lumber DOL=1.6										11 UAN	GARC
	has been designed for										N 100	A





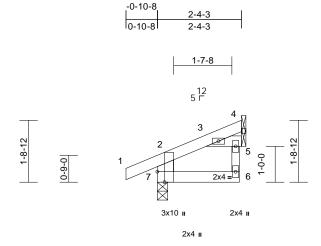
A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not
a truss system. Before 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 117 RR	
RR117	J13	Jack-Open	2	1	Job Reference (optional)	148527934

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October 27,2021

16023 Swingley Ridge Rd Chesterfield, MO 63017



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

Scale = 1:32.2

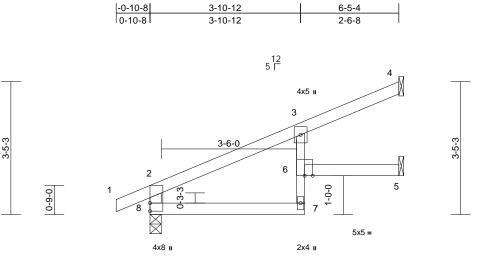
Plate Offsets (X, Y): [7:0-3-8,Edge]

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	0.08	Vert(LL)	0.00	3	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	3	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	3	>999	240	Weight: 9 lb	FT = 10%
	2x4 SPF No.2 *Exce 2x6 SPF No.2 Structural wood she 2-4-3 oc purlins, ex Rigid ceiling directly bracing. (Ib/size) 4=40/ Me Mechanic Max Horiz 7=45 (LC Max Uplift 4=-19 (LC (LC 4) Max Grav 4=40 (LC (LC 1)	athing directly applied cept end verticals. applied or 10-0-0 oc chanical, 5=44/ al, 7=193/0-3-8 5) : 8), 5=-3 (LC 8), 7=-3 1), 5=66 (LC 3), 7=19	International R802.10.2 at LOAD CASE(S)	designed in accorr Residential Code nd referenced star Standard	sections	R502.11.1 a	nd				GAR	CIA *
FORCES TOP CHORD BOT CHORD NOTES	(lb) - Maximum Com Tension 2-7=-170/47, 1-2=0/ 6-7=-7/9, 5-6=0/38, CE 7-16; Vult=115mph	30, 2-3=-41/0, 3-4=-1 3-5=-9/7	1/13							1111	E-20001	• 41.
Vasd=91m II; Exp C; I cantilever right expos 2) This truss chord live 3) * This truss on the bott 3-06-00 ta chord and 4) Refer to gi 5) Provide m bearing pla	ph; TCDL=6.0ps; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 has been designed foi load nonconcurrent wi s has been designed f tom chord in all areas II by 2-00-00 wide will any other members. irder(s) for truss to tru echanical connection (ate capable of withstar lift at joint 4 and 3 lb u	DL=6.0psf; h=25ft; C velope) exterior zone; ; end vertical left and 0 plate grip DOL=1.6 r a 10.0 psf bottom th any other live load or a live load of 20.0p where a rectangle fit between the bottor ss connections. by others) of truss to nding 33 lb uplift at jo	ə; O S. Dosf n							. THUMAN	PROFESSION	ALENO

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	J14	Jack-Open	2	1	Job Reference (optional)	148527935

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Scale = 1:29.8

00010 - 112010				-								
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	0.36	Vert(LL)	-0.08	3	>961	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.14	7	>546	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.06	6	>999	240	Weight: 18 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x4 SPF No.2 2x4 SPF No.2 *Exce 2x4 SPF No.2	ept* 7-3:2x3 SPF No	.2									
TOP CHORD	Structural wood she 6-0-0 oc purlins, ex		ed or									
BOT CHORD	Rigid ceiling directly bracing.		0									IG.
REACTIONS			-4 (LC							111	TE OF	MISSOUT
FORCES	(lb) - Maximum Com Tension	pression/Maximum								Ξ×	GAR	CIA *=
TOP CHORD	2-8=-330/34, 1-2=0/ 3-4=-23/55	27, 2-3=-263/0,								EP	NUM	
BOT CHORD	7-8=-34/178, 6-7=0/	79, 3-6=-17/75, 5-6=	=0/0							-1	E-20001	• 41-
NOTES											L-20001	102101
Vasd=91m II; Exp C; I and right e	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er exposed ; end vertical OL=1.60 plate grip DC	DL=6.0psf; h=25ft; (nvelope); cantilever l left and right expose	eft								SS/ON/	AL ENGLIN
	has been designed fo		da								ALL NO	GAR
3) * This trus on the bot 3-06-00 ta	load nonconcurrent wi s has been designed f tom chord in all areas Il by 2-00-00 wide will any other members.	or a live load of 20.0 where a rectangle	psf							annun.	LICE	NSEO
5) Provide m bearing pla 8, 32 lb up	irder(s) for truss to tru echanical connection ate capable of withstar blift at joint 4 and 3 lb u	(by others) of truss to nding 4 lb uplift at joi Iplift at joint 5.								THUN,	16 PRO	952 H
Internation R802.10.2	is designed in accordanal Residential Code search and referenced stand	ections R502.11.1 a	nd								AKSSION	AL ENGINI
LOAD CASE(S) Standard										Octobe	r 27,2021

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

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

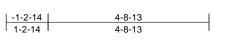
Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	J15	Diagonal Hip Girder	2	1	Job Reference (optional)	148527936

2-1-12

0-6-0

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:48:06 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

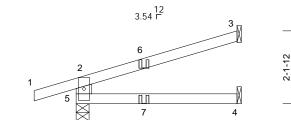
Page: 1







NAILED NAILED 4-8-13



4x8 II

Scale = 1:33.9

Scale = 1:33.9													
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	0.31	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.19	Vert(CT)	-0.04	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/	/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 13 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x6 SPF No.2 Structural wood she 4-8-13 oc purlins, e Rigid ceiling directly bracing. (Ib/size) 3=132/ M	eathing directly applie except end verticals. ' applied or 10-0-0 or echanical, 4=48/ al, 5=315/0-4-9 4)	7) 8) LO, ed or 1)	"NAILED" inc (0.148"x3.25 In the LOAD of the truss a AD CASE(S) Dead + Roo Plate Increa Uniform Loa Vert: 1-2 Concentrate	dicates 3-10d (0. ") toe-nails per N CASE(S) section re noted as from Standard of Live (balanced ase=1.15	NDS guidlii n, loads ar t (F) or bad l): Lumber	or 2-12d nes. oplied to the ck (B).	face		2000	240	Viegne 10 ID	MISSOU
FORCES	Max Grav 3=132 (LC (LC 1) (lb) - Maximum Com		=315								E*	JU/ GAR	
	Tension										-		
TOP CHORD BOT CHORD	2-5=-281/132, 1-2=0 4-5=0/0	J/29, 2-3=-09/29										NUM	• 41.
	4-5=0/0											C: E-2000	162101
NOTES		(a									/	A	- 21:
Vasd=91m II; Exp C; I cantilever	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6	DL=6.0psf; h=25ft; (nvelope) exterior zor ; end vertical left an	ne; d									SS/ON	AL ENGIN
	has been designed fo											, un	
, chord live	load nonconcurrent w	ith any other live loa										IN UAN	SARC
on the bott 3-06-00 ta	s has been designed f tom chord in all areas ill by 2-00-00 wide will any other members.	where a rectangle										THE LOCE	NSEO
, 0	irder(s) for truss to tru										=	16	952
bearing pla 5 and 60 l	echanical connection ate capable of withsta b uplift at joint 3.	nding 94 lb uplift at jo									1111	PRO	ha Ha
Ínternation	is designed in accorda nal Residential Code s and referenced stand	ections R502.11.1 a	nd									LESSION	IAL ENGINI
												Octobo	r 07 0001

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 117 RR	
RR117	J16	Jack-Open	5	1	Job Reference (optional)	148527937

-0-10-8

0-10-8

Wheeler Lumber, Waverly, KS - 66871,

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:48:06 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

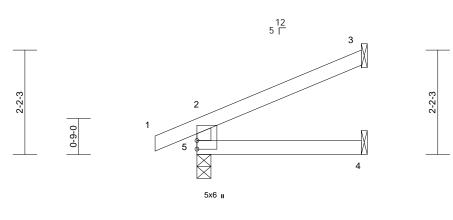
3-5-4

3-5-4

3-5-4



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



Scale = 1:24.1				1				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	0.14	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 10 lb	FT = 10%

LUMBER		
TOP CHORD	2x4 SPF I	No.2
BOT CHORD	2x4 SPF I	No.2
WEBS	2x4 SPF I	No.2
BRACING		
TOP CHORD		l wood sheathing directly applied or purlins, except end verticals.
BOT CHORD		ing directly applied or 10-0-0 oc
REACTIONS	(lb/size)	3=98/ Mechanical, 4=36/ Mechanical, 5=228/0-3-8
	Max Horiz	5=63 (LC 8)
	Max Uplift	3=-52 (LC 8), 5=-33 (LC 8)

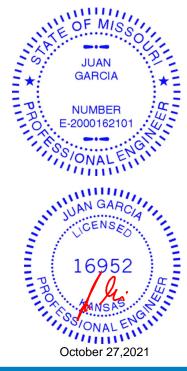
Max Grav 3=98 (LC 1), 4=60 (LC 3), 5=228 (LC 1) FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-200/64, 1-2=0/27, 2-3=-54/29 BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) 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 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 5 and 52 lb uplift at joint 3.
- 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 117 RR	
RR117	J17	Diagonal Hip Girder	2	1	Job Reference (optional)	148527938

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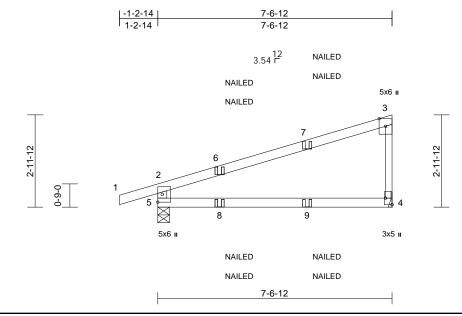


Plate Offsets (X, Y): [4:Edge,0-2-8]

	7, 1). [4.Luge,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	0.86		-0.11	4-5	>780	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.51	Vert(CT)	-0.24	4-5	>361	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.00	· · ·	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018	/TPI2014	Matrix-R		Wind(LL)	0.05	4-5	>999	240	Weight: 21 lb	FT = 10%
		1						_					
LUMBER			8)		CASE(S) section			face					
TOP CHORD	2x4 SPF No.2				re noted as from	nt (F) or ba	ск (В).						
BOT CHORD	2x4 SPF No.2			AD CASE(S)									
WEBS	2x4 SPF No.2 *Exce	ept* 3-4:2x3 SPF No.	2 1)		of Live (balanced	d): Lumber	Increase=1.	15,					
BRACING				Plate Increa									
TOP CHORD	Structural wood she 6-0-0 oc purlins, ex	eathing directly applie cept end verticals.	d or	Uniform Loa Vert: 1-2	ads (lb/ft) =-70, 2-3=-70, 4	-5=-20							
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 oc	;	Concentrate	ed Loads (lb)								н <u>л.</u>
	bracing.				2 (F=-1, B=-1), 8	8=7 (F=4, E	3=4), 9=-13					IN OF	MICH
REACTIONS	(lb/size) 4=328/ M	echanical, 5=435/0-4	l-9	(F=-7, B=	-7)							NE	SS
	Max Horiz 5=122 (LC											·	
	Max Uplift 4=-80 (LC	C 8), 5=-123 (LC 4)									-	2 · · · · ·	
FORCES	(lb) - Maximum Com Tension	npression/Maximum									Ξ.	JUA GAR	
TOP CHORD	2-5=-383/180, 1-2=0)/27 2-3=-199/21									=*	GATT	*=
	3-4=-228/112										Ξ.,		
BOT CHORD	4-5=-43/87										=7	NUME	BER :
NOTES												C E-20001	62101 :41
	CE 7-16; Vult=115mph	(3-second aust)									-	A	
	nph; TCDL=6.0psf; BC		Cat.									· · · · · · · · · · · · · · · · · · ·	GN
II; Exp C; E	Enclosed; MWFRS (er	nvelope) exterior zon	e;									I,ONI	LENN
	left and right exposed												iiii ⁱ
	sed; Lumber DOL=1.6		60										
	has been designed fo											I I I I I I I I I I I I I I I I I I I	1111
	load nonconcurrent w											IN UAN C	GARO
	s has been designed f		psf									N. 70	····· A
	tom chord in all areas											CE	NSE
	Il by 2-00-00 wide will any other members.	In between the bolto	m										
	rder(s) for truss to trus	es connections											1 A E
	echanical connection		`									160	952
	ate capable of withsta		,								-	10.	552
	80 lb uplift at joint 4.	nung 120 ib upint ut									-	T.	h : 55
	is designed in accorda	ance with the 2018										0	14. 14 S
	al Residential Code s		nd									AM	ISAS. RASI
	and referenced stand											1 SSIC	ENUI
7) "NAILED"	indicates 3-10d (0.148	3"x3") or 2-12d										I I I I	AL
(0.148"x3.2	25") toe-nails per NDS	6 guidlines.											
												Octobe	r 27,2021

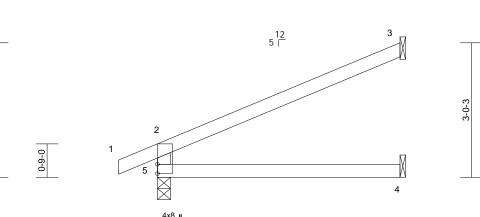


Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	J18	Jack-Open	7	1	Job Reference (optional)	148527939

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:48:07 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







xo II

-0-10-8

0-10-8

5-5-4

5-5-4

5-5-4

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	TC	0.43	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.08	4-5	>810	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.03	4-5	>999	240	Weight: 14 lb	FT = 10%

LUMBER

Scale = 1:25.8

2x4 SPF I	No.2
2x4 SPF I	No.2
2x4 SPF I	No.2
Structural	wood sheathing directly applied or
5-5-4 oc p	ourlins, except end verticals.
Rigid ceili	ing directly applied or 10-0-0 oc
bracing.	
(lb/size)	3=164/ Mechanical, 4=64/
	2x4 SPF I 2x4 SPF I Structural 5-5-4 oc p Rigid ceili bracing.

	Mechanical, 5=314/0-3-8
Max Horiz	5=68 (LC 8)
Max Uplift	3=-49 (LC 8), 5=-4 (LC 8)
Max Grav	3=164 (LC 1), 4=99 (LC 3), 5=314
	(LC 1)

3-0-3

FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-274/48, 1-2=0/27, 2-3=-78/49 BOT CHORD 4-5=0/0

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); 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 4 lb uplift at joint 5 and 49 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

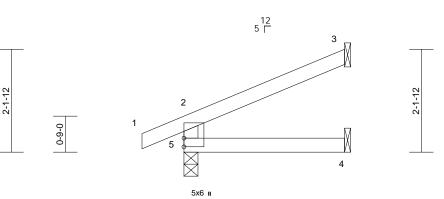




Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	J19	Jack-Open	3	1	Job Reference (optional)	148527940

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:48:07 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





3-4-3

Scale = 1:24

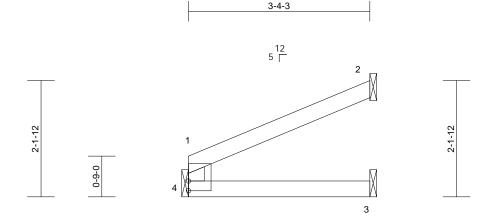
Scale = 1:24												
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.13 0.08 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in 0.00 -0.01 0.00 0.00	(loc) 4-5 4-5 3 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 9 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 Structural wood she 3-4-3 oc purlins, ex Rigid ceiling directly bracing.	y applied or 10-0-0 o										111.
REACTIONS		C 8), 5=-33 (LC 8)	224							in in	ALE OF	MISSO AN RCIA
 Vasd=91rr II; Exp C; I cantilever right expos 2) This truss chord live 3) * This trus on the bot 3-06-00 ta chord and 4) Refer to gi 5) Provide m bearing pla 5 and 51 II 6) This truss Internation 	Tension 2-5=-197/63, 1-2=0, 4-5=0/0 CE 7-16; Vult=115mph ph; TCDL=6.0psf; BC Enclosed; MWFRS (e left and right exposed sed; Lumber DOL=1.6 load nonconcurrent w s has been designed for hord in all areas II by 2-00-00 wide will any other members. rder(s) for truss to tru echanical connection ate capable of withsta o uplift at joint 3. is designed in accord all Residential Code s and referenced stand	h (3-second gust) DL=6.0psf; h=25ft; (nvelope) exterior zor 1; end vertical left an 30 plate grip DOL=1.1 or a 10.0 psf bottom ith any other live loa for a live load of 20.0 where a rectangle fit between the botto uss connections. (by others) of truss t inding 33 lb uplift at ju- ance with the 2018 sections R502.11.1 a	ne; d 60 ds.)psf om o oint							C PHONE CONTINUES	NUN E-2000 SS/ON LOE 16 PROXING S/OT	GARCIA NSEO
LUAD CASE(Si Stanuaru										Octobe	er 27,2021



Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	J20	Jack-Open	1	1	Job Reference (optional)	148527941

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:48:08 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





5x6 🛛

Matrix-R

IRC2018/TPI2014

		3-4-3										
Scale = 1:21.3		-					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	0.15	Vert(LL)	0.00	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	3-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		

Wind(LL)

0.01

3-4

>999

240

Weight: 8 lb

FT = 10%

L	ш	M	R	F	R	

BCDL

LOWIDER		
TOP CHORD	2x4 SPF	No.2
BOT CHORD	2x4 SPF	No.2
WEBS	2x4 SPF	No.2
BRACING		
TOP CHORD	Structura	I wood sheathing directly applied or
	3-4-3 oc	purlins, except end verticals.
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(lb/size)	2=101/ Mechanical, 3=40/
	. ,	Mechanical, 4=141/Mechanical

10.0

Code

	Mechanical, 4=141/ Mechanical
Max Horiz	z 4=46 (LC 5)
Max Uplif	t 2=-52 (LC 8), 4=-7 (LC 8)
Max Grav	2=101 (LC 1), 3=60 (LC 3), 4=141
	(LC 1)
	-

FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-118/38, 1-2=-52/31 BOT CHORD 3-4=0/0

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 7 lb uplift at joint 4 and 52 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





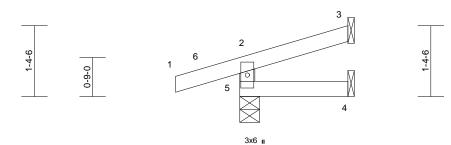
Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	J21	Diagonal Hip Girder	2	1	Job Reference (optional)	148527942

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:48:09 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-1-2-14 2-1-0 1-2-14 2-1-0



2-1-0



Scale = 1:22.2	:22.2	1	=	le	Sca
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3cale = 1.22.2														
Loading TCLL (roof) TCDL	(psf 25.0 10.0) Plate Grip DOL	2-0-0 1.15 1.15		CSI TC BC	0.07 0.02	DEFL Vert(LL) Vert(CT)	in 0.00 0.00	(loc) 4-5 4-5	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 197/144	
BCLL BCDL	0.0 10.0		NO IRC201	8/TPI2014	WB Matrix-R	0.00	Horz(CT) Wind(LL)	0.00 0.00	3 4-5	n/a >999	n/a 240	Weight: 7 lb	FT = 10%	
	2-1-0 oc purlins, Rigid ceiling dire bracing. (Ib/size) 3=21/ Max Horiz 5=43 Max Uplift 3=-24 5=-11. Max Grav 3=21 (LC 1)	(LC 12), 4=-6 (LC 19), 3 (LC 6) (LC 1), 4=17 (LC 3), 5=	oc L 1, -71	provided sui down and 5 up at -1-2-1 such connect) In the LOAD of the truss OAD CASE(5)) Dead + Ro Plate Incre Concentrat Vert: 1= Trapezoida Vert: 1= (F=35, E B=27)-tc	of Live (balance	rt concentra I, and 14 lb The desig is the respon- on, loads a nt (F) or ba ed): Lumber 11) to-6=-18 (F F=27, B=2	Ated load(s) 1 down and 5 n/selection of nsibility of oth pplied to the ck (B). Increase=1.	lb f hers. face 15, 6=0 27,				JU GAF	RCIA	
TOP CHORD BOT CHORD	2-5=-73/108, 1-2 4-5=0/0	=-3/10, 2-3=-15/3									1	E-2000	162101	4

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
- 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 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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 113 lb uplift at joint 5, 24 lb uplift at joint 3 and 6 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.

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/TP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

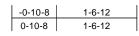


Page: 1

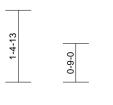


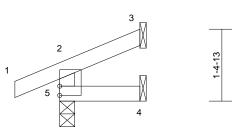
Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	J22	Jack-Open	3	1	Job Reference (optional)	148527943

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5x6 II

1-6-12

Sca	le.	_	1:22.5	

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	(53)	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4-5	>999	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-R	0.00	Wind(LL)	0.00	4-5	>999	240	Weight: 5 lb	FT = 10%
LUMBER												
TOP CHORD												
BOT CHORD												
WEBS	2x4 SPF No.2											
BRACING												
TOP CHORD			ed or									
	1-6-12 oc purlins, e											
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 of	2									• 1
REACTIONS	(lb/size) 3=29/ Me	chanical, 4=8/										1111
Mechanical, 5=161/0-3-8												
Max Horiz 5=36 (LC 5)												
Max Uplift 3=-22 (LC 8), 5=-35 (LC 4)												
Max Grav 3=29 (LC 1), 4=24 (LC 3), 5=161												
	(LC 1)									24	GAR	CIA :
FORCES	(lb) - Maximum Com Tension	pression/Maximum								Ξ.		
TOP CHORD		27. 2-3=-27/7								- 7	NUM	
BOT CHORD										-5		• []]
NOTES										-1	E-20001	102101
	CE 7-16; Vult=115mph	(3-second aust)								1	A	- dala
	nph; TCDL=6.0psf; BC		Cat.								1,SION	FNI
	Enclosed; MWFRS (er											
	left and right exposed											Here and a second se
	sed; Lumber DOL=1.6		60									1117.
	has been designed for										ALL NO	GARO
	load nonconcurrent wi										NUAN	CIA I
	s has been designed f tom chord in all areas		ipsr								CE	NSA
	all by 2-00-00 wide will		m									
	any other members.									-	6 A	1 2
	irder(s) for truss to tru	ss connections.								-	1 1 6	952 🛛 🗧
	echanical connection (0							-	10	952
	ate capable of withstar	nding 35 lb uplift at jo	pint								UCE	
	b uplift at joint 3.										0.	14:45
	is designed in accorda										AM	ISAS. R.
	nal Residential Code s		nd								1. SION	IN EN IN
	2 and referenced stand	ard ANSI/TPT1.										AL
LOAD CASE(S) Standard										Octobo	r 07 0001

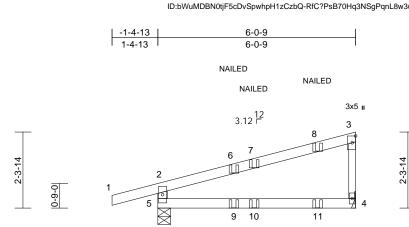
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 117 RR	
RR117	J23	Diagonal Hip Girder	2	1	Job Reference (optional)	148527944

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:48:10 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





3x6 II

NAILED

2x4 🛛

NAILED

NAILED

6-0-9

Scale = 1:35.2

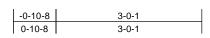
Loa	ding	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
	L (roof)	25.0	Plate Grip DOL	1.15		TC	0.48	Vert(LL)	-0.04	4-5	>999	360	MT20	197/144
TCD	L	10.0	Lumber DOL	1.15		BC	0.30	Vert(CT)	-0.09	4-5	>750	240		
BCL	L	0.0*	Rep Stress Incr	NO		WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCD)L	10.0	Code	IRC2018/TPI20)14	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 17 lb	FT = 10%
LUN	IBER			8) In the	e LOAD	CASE(S) section	, loads a	pplied to the	face					
TOP	CHORD	2x4 SPF No.2		of the	e truss a	ire noted as front	(F) or ba	ck (B).						
	CHORD	2x4 SPF No.2			ASE(S)	Standard								
WEE		2x4 SPF No.2 *Exce	ept* 3-4:2x3 SPF No.:	,		of Live (balanced)	: Lumber	Increase=1.	15,					
	CING					ase=1.15								
TOP	CHORD		athing directly applie			ads (lb/ft)	- 20							
BOT	CHORD	6-0-0 oc purlins, ex	cept end verticals.			=-70, 2-3=-70, 4-5	5=-20							
bracing. Vert: 8=-2 (B), 9=3 (B), 10=-1 (F), 11=-7 (B)										115				
REACTIONS (lb/size) 4=253/ Mechanical, 5=384/0-4-11										Mille				
Max Horiz 5=92 (LC 7) Max Liplift 4=-59 (LC 8) 5=-118 (LC 4)											SS			
Max Uplift 4=-59 (LC 8), 5=-118 (LC 4)														
FORCES (Ib) - Maximum Compression/Maximum Tension												20	JU/	AN P
TOP	CHORD	2-5=-338/160, 1-2=0	0/27, 2-3=-145/15,									=+	GAR	CIA
BOT	CHORD	3-4=-178/87 4-5=-29/69											:	
NOT		4-3=-23/03										= 0	NUM	
		CE 7-16; Vult=115mph	(3-second qust)									-5	E-20001	• 41.
		nph; TCDL=6.0psf; BC		Cat.									E-20001	102101
	II; Exp C; E	Enclosed; MWFRS (er	nvelope) exterior zon	e;									· • • • •	GN
		left and right exposed											1,SONI	ENIN
	•	sed; Lumber DOL=1.6		50									1111	iiiiii
		has been designed fo load nonconcurrent wi		ls.										
		s has been designed f											THE LOE	
		tom chord in all areas	0										NUAN	ARCIN
		Il by 2-00-00 wide will	fit between the botto	m									N CE	NSA
		any other members. rder(s) for truss to trus	ss connections											- O ·
		echanical connection		`									1 A State 1	- A E -
		ate capable of withstar											1 1 60	952
1	5 and 59 lt	b uplift at joint 4.	• • •									-	10	552
		is designed in accorda										-	D.	
		al Residential Code s		nd									On Kan	5145
		and referenced stand indicates 2-12d (0.148												SAGE
	NAILED		5 x5.25) toe-nalls pe	1									SION	ALENIN
													1111	IIIIII.
														r 27,2021
													2 2.500	,-•

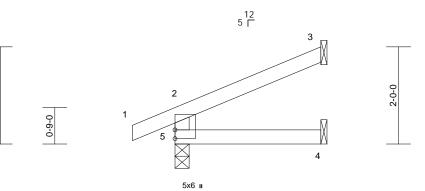


Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	J24	Jack-Open	2	1	Job Reference (optional)	148527945

2-0-0

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:48:11 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





3-0-1

Scale = 1:23.7

Scale = 1:23.7												
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	0.10 0.06 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.01 0.00	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 9 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 Structural wood she 3-0-1 oc purlins, ex	cept end verticals.				•						
REACTIONS		C 8), 5=-32 (LC 8)	210								S. JU	MISSOUT
FORCES	(lb) - Maximum Com	npression/Maximum								Ξ*	GAI	*=
Vasd=91n II; Exp C; cantilever	4-5=0/0 CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed	n (3-second gust) CDL=6.0psf; h=25ft; (nvelope) exterior zor ; end vertical left an	ne; Id							Philip		IBER 162101
 This truss chord live * This trus on the bot 3-06-00 ta chord and Refer to g Provide m bearing 15 5 and 45 I This truss Internation R802.10.2 	sed; Lumber DOL=1.6 has been designed fo load nonconcurrent w is has been designed fo tom chord in all areas all by 2-00-00 wide will any other members. irder(s) for truss to tru techanical connection techanical connection ate capable of withstat b uplift at joint 3. is designed in accorda all Residential Code s 2 and referenced stance	r a 10.0 psf bottom ith any other live loa for a live load of 20.0 where a rectangle fit between the botto iss connections. (by others) of truss t nding 32 lb uplift at j ance with the 2018 ections R502.11.1 a	ds. Dpsf om o oint							. THINK	LICE	GARCIA NSEO 952
LOAD CASE(S) Standard										Octobe	er 27,2021



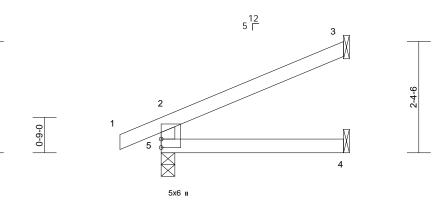
Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	J25	Jack-Open	5	1	Job Reference (optional)	148527946

2-4-6

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:48:11 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







3-10-8

Scale		

						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	TC	0.19	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 11 lb	FT = 10%
LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 BRACING TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins, except end verticals. BOT CHORD Reinfordity applied or 10.0 oc												
BOT CHORD												
	REACTIONS (lb/size) 3=112/ Mechanical, 4=43/ Mechanical, 5=246/0-3-8 Max Horiz 5=70 (LC 8) Max Uplift 3=-59 (LC 8), 5=-35 (LC 8) Max Grav 3=112 (LC 1), 4=69 (LC 3), 5=246 (LC 1) GARCIA											
FORCES	(lb) - Maximum Con	npression/Maximum								Ξ*	GAR	
TOP CHORD	Tension 2-5=-216/70, 1-2=0	/27 2-361/33								= 1		or =
BOT CHORD	4-5=0/0	21, 2-3=-01/33								= 5	NUME	• [] []
NOTES	4-3-0/0									-1	E-20001	62101
1) Wind: ASC Vasd=91m II; Exp C; I cantilever	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (e left and right exposed	CDL=6.0psf; h=25ft; 0 nvelope) exterior zon ; end vertical left and	ie; d								ESS/ONF	LENGINI
	sed; Lumber DOL=1.6 has been designed fo		50									1111.
	load nonconcurrent w		ds								IN AN C	ARC
3) * This trust on the bott 3-06-00 ta	s has been designed tom chord in all areas Il by 2-00-00 wide will any other members.	for a live load of 20.0 where a rectangle	psf								IN JUCE	NSED
	irder(s) for truss to tru	uss connections.								=	160	952
bearing pla	echanical connection ate capable of withsta b uplift at joint 3.									IIIIII IIII	PRO	
Ínternation	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											07.0004

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 117 RR	
RR117	J26	Jack-Open	2	1	Job Reference (optional)	148527947

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:48:11 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

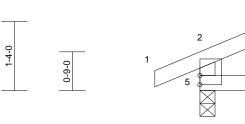
Page: 1

-0-10-8 1-4-13 0-10-8 1-4-13



3

4





5x6 II

1-4-13

Sca	le	_	1:22.3	

TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) 0.00 4-5 >999 360 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.02 Vert(CT) 0.00 4-5 >999 240 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-R Wind(LL) 0.00 4-5 >999 240 Weight	LATES GRIP IT20 197/144 /eight: 5 lb FT = 10%									
BCDL 10.0 Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.00 4-5 >999 240 Weight	/eight: 5 lb FT = 10%									
LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 BRACING TOP CHORD Structural wood sheathing directly applied or 1-4-13 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.										
REACTIONS (Ib/size) 3=21/ Mechanical, 4=5/ Mechanical, 5=157/0-3-8 Max Horiz 5=34 (LC 5) Max Uplift 3=-18 (LC 8), 5=-36 (LC 4) Max Grav 3=21 (LC 1), 4=21 (LC 3), 5=157 (LC 1) GARCIA										
FORCES (Ib) - Maximum Compression/Maximum										
TOP CHORD 2-5=-137/46, 1-2=0/27, 2-3=-25/5 BOT CHORD 4-5=0/0 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 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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. 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 5 and 18 lb uplift at joint 3. 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard 										

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

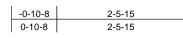


Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	J27	Jack-Open	2	1	Job Reference (optional)	148527948

1-6-0

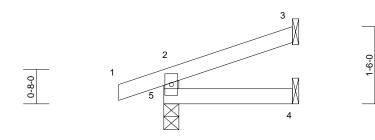
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Page: 1





2-5-15



3x5 II

Scal	<u> </u>	- 1.	22	3

Ocale = 1.22.0												
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	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4-5	>999	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-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 Structural wood she 2-5-15 oc purlins, e Rigid ceiling directly bracing.	except end verticals.										1907.
	Wetchnical, 5=190/0-3-8 Max Horiz 5=43 (LC 4) Max Uplift 3=-65 (LC 1), 4=42 (LC 3), 5=190 (LC 1) GARCIA											
FORCES	(lb) - Maximum Con Tension	npression/Maximum								<u>=</u> *	GAN	*
TOP CHORD		/23, 2-3=-32/15								- 7	NUM	BER : C-
BOT CHORD	4-5=0/0									-7	E-2000	• 41.
NOTES											L-2000	102101.2
Vasd=91n II; Exp C; cantilever	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed	DL=6.0psf; h=25ft; (nvelope) exterior zor ; end vertical left an	ne; d								SS/ON	ALENGIN
	sed; Lumber DOL=1.6		00									11111
	has been designed fo		ds								IN AN	GARC
 3) * This trus on the bot 3-06-00 ta chord and 4) Refer to g 	 * 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. 											
bearing pl	echanical connection ate capable of withsta b uplift at joint 3.										PRO	la #
6) This truss Internation	International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.											
LOAD CASE(S) Standard											r 27 2021

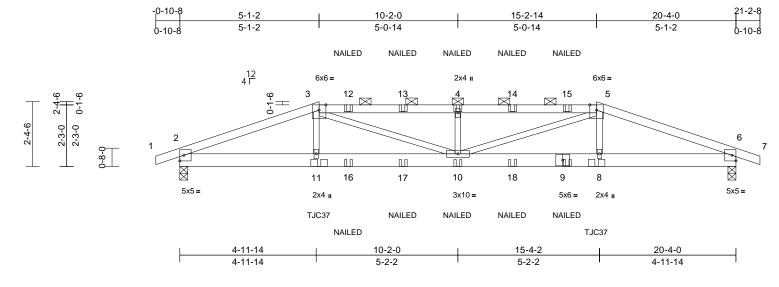
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 117 RR	
RR117	K1	Hip Girder	1	1	Job Reference (optional)	148527949

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Page: 1



Scale = 1:42.1

_			i											
Lo	ading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TC	LL (roof)	25.0	Plate Grip DOL	1.15		TC	0.93	Vert(LL)	-0.19	10	>999	360	MT20	197/144
TC	DL	10.0	Lumber DOL	1.15		BC	1.00	Vert(CT)	-0.34	10	>702	240		
BC	LL	0.0*	Rep Stress Incr	NO		WB	0.37	Horz(CT)	0.06	6	n/a	n/a		
BC	DL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.17	10	>999	240	Weight: 75 lb	FT = 10%
TC BC WE BR TC BC RE		2x6 SPF No.2 2x3 SPF No.2 Structural wood she 2-0-0 oc purlins, ex 2-0-0 oc purlins (2-3 Rigid ceiling directly bracing. (Ib/size) 2=1357/0 Max Horiz 2=-34 (LC Max Uplift 2=-333 (L	ccept -5 max.): 3-5. applied or 9-4-6 oc -3-8, 6=1357/0-3-8 : 13) C 4), 6=-333 (LC 5)	8) d or 9)	 International R802.10.2 au Graphical pu or the orienta bottom chore Use Simpson equivalent at to back face right, sloping Use Simpson equivalent at (es) to back 	designed in acco Residential Code ad referenced sta rlin representatio ation of the purlin b. Strong-Tie TJC: 5-1-2 from the le of bottom chord, 0.0 deg. down. 15-2-14 from the acce of bottom chord ng 0.0 deg. down	e sections indard AN n does no along the 37 (4 nail eft end to skewed 5 37 (4 nail e left end iord, skew	: R502.11.1 a ISI/TPI 1. ot depict the s top and/or 90-150) or connect truss i1.3 deg.to th , 30-90) or to connect trus	size s(es) ie uss			11.	IN OF	MISSOL
FO	RCES	(lb) - Maximum Com Tension	pression/Maximum		11) Fill all nail holes where hanger is in contact with lumber. 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d GARCIA									
тс	P CHORD	1-2=0/1, 2-3=-3034/ 4-5=-3658/855, 5-6=			(0.148"x3.25") toe-nails per NDS guidlines.									*
BC	T CHORD	2-11=-612/2766, 10- 8-10=-587/2744, 6-8	-11=-611/2745,		13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).									• []].
WE	BS	3-11=-19/396, 3-10= 4-10=-589/269, 5-10	-253/1078,	1`	 LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 								E-2000	102101
NC	TES												FNI	
		ed roof live loads have	been considered for		Vert: 1-3=-70, 3-5=-70, 5-7=-70, 2-6=-20								NON!	41-111
.,	this design													Un.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vert: 9=-23 (B), 11=-221 (B), 10=-23 (B), 4=-42 (B), Vasd=01mph; TCDI = 6 0psf; b=25ft; Cot												BARCIA NSEO		
	chord live load nonconcurrent with any other live loads.													
5)		s has been designed f		psf								=	1 10	
	للمط مطلا مرم	مممعم المصالمعمام مسمه	uhara a reatanala										U •	

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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 333 lb uplift at joint 2 and 333 lb uplift at joint 6.

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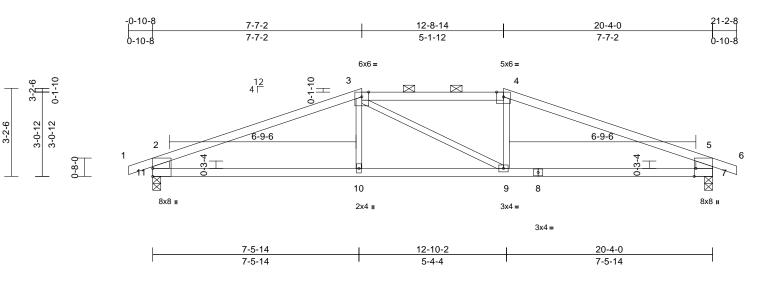


SIONAL ENGINE

Job		Truss	Truss Type	Qty	Ply	Lot 117 RR		
RR′	117	K2	Hip	1	1	Job Reference (optional)	148527950	

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:48:13 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





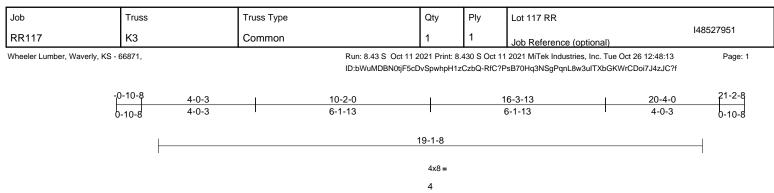
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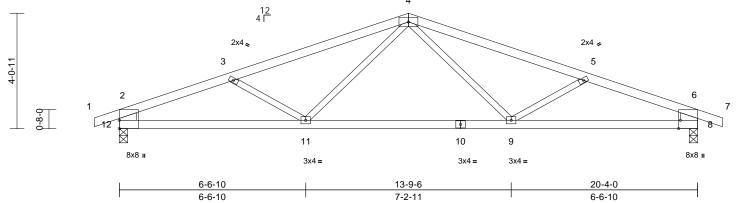
Plate Offsets (X, Y): [7:0-3-8,Edge]

Plate Olisets ((X, Y): [7:0-3-8,Edge]													
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	0.65 0.59 0.17	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.12 -0.24 0.05 0.08	(loc) 9-10 9-10 7 9-10	l/defl >999 >990 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 60 lb	GRIP 197/144 FT = 10%	
BOBL	10.0	0000	11(02010/	1112011	Matrix 0		Wind(EE)	0.00	0 10	2000	210	Wolght. 00 lb	11 - 10/0	
LUMBER TOP CHORD BOT CHORD	TOP CHORD2x4 SPF 2100F 1.8E *Except* 3-4:2x4 SPF No.2bearing plate capable of withstanding 197 lb uplift at joint 11 and 197 lb uplift at joint 7.BOT CHORD2x4 SPF No.27)WEBS2x3 SPF No.2 *Except* 11-2,7-5:2x8 SP DSSInternational Residential Code sections R502.11.1 and													
BRACING R802.10.2 and referenced standard ANSI/TPI 1. TOP CHORD Structural wood sheathing directly applied or 4-11-7 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-9 max.): 3-4. 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. BOT CHORD Rioid ceiling directly applied or 10-0-0 oc. LOAD CASE(S) Standard														
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	; LO/	AD CASE(S)	Standard						1	ATE	SO	
REACTIONS	(lb/size) 7=970/0-3 Max Horiz 11=33 (LC Max Uplift 7=-197 (L)								in the second se	JU/ GAR		
FORCES	(lb) - Maximum Com Tension	pression/Maximum									Ξ.		ΩΞ	
TOP CHORD											Philip	NUMI E-20001	• 41.	
BOT CHORD	10-11=-190/1464, 9- 7-9=-164/1464	-10=-193/1460,										SS/ON	ENGIN	
WEBS	3-10=0/239, 3-9=-18	86/187, 4-9=0/239										1111	i i i i i i i i i i i i i i i i i i i	
NOTES														
,	ed roof live loads have	been considered for	r											
 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 and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 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. * This truss has been designed for a live load of 20.0psf 												952		
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.														

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Scale = 1:40.5

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

	(/(, 1): [0:0 0 0,Eugo]													
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	0.81	Vert(LL)	-0.17	9-11	>999	360	MT20	197/144		
TCDL BCLL	10.0 0.0*	Lumber DOL	1.15 YES	BC WB	0.63	Vert(CT)	-0.32	9-11	>730	240				
BCDL	10.0	Rep Stress Incr Code	IRC2018/TPI2014	Matrix-S	0.12	Horz(CT) Wind(LL)	0.05 0.12	8 9-11	n/a >999	n/a 240	Weight: 65 lb	FT = 10%		
	10.0	Code						3-11	2333	240	Weight. 00 lb	11 = 1078		
LUMBER TOP CHORD	2v4 SDE 2100E 1 9	F		mechanical connection										
BOT CHORD		E		and 180 lb uplift at jo		ioo ib upiirt u	L.							
WEBS		ept* 12-2,8-6:2x8 SP	,	s is designed in acco		ith the 2018								
	2400F 2.0E International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.													
BRACING					andard AN	NSI/TPI 1.								
TOP CHORD		eathing directly applie	d or LOAD CASE	(S) Standard										
3-9-12 oc purlins, except end verticals.														
3OT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.														
REACTIONS	(lb/size) 8=970/0-3	3-8, 12=970/0-3-8								1		000		
	Max Horiz 12=-49 (L	,								-		· D=		
	Max Uplift 8=-180 (L	,, , , ,)							2	GAR			
FORCES	(lb) - Maximum Corr Tension	npression/Maximum								= *	CAN			
TOP CHORD		3/290, 3-4=-1502/196	δ.							Ξ.,				
	4-5=-1502/196, 5-6=	=-1713/290, 6-7=0/26	,							= 7	NUM	BER :		
	2-12=-888/206, 6-8=									-1	O: E-20001	162101		
BOT CHORD	11-12=-263/1537, 9 8-9=-226/1537	-11=-105/1179,								1	A			
WEBS		255/195, 4-11=-11/34	8.								1.SION	ENIN		
	3-11=-255/194		- ,								- I ON	ALLIN		
NOTES												1.1.1		
,	ed roof live loads have	been considered for										IIIII.		
this design 2) Wind: AS(n. CE 7-16; Vult=115mph	(2 cocond quet)									UCE DE	GARC		
,	nph; TCDL=6.0psf; BC		Cat.								N' SOUCE	NSA		
	Enclosed; MWFRS (er									- 2		0		
	left and right exposed										1.1	- N E		
	sed; Lumber DOL=1.6 has been designed fo		50								16	952		
	load nonconcurrent w		ls.							=	1. 10			
	s has been designed f									-	"P	4		
	tom chord in all areas										- A KAN	SAS		
	all by 2-00-00 wide will any other members.	fit between the botto	m								1.	NGIN		
chora ana	any other members.										NON	VALE		
											Octobe	r 27,2021		
WARN	NING - Verify design parameter	ers and READ NOTES ON	THIS AND INCLUDED MIT	EK REFERENCE PAGE M	II-7473 rev. 5	/19/2020 BEFOF	RE USE.							
	alid for use only with MiTek®													

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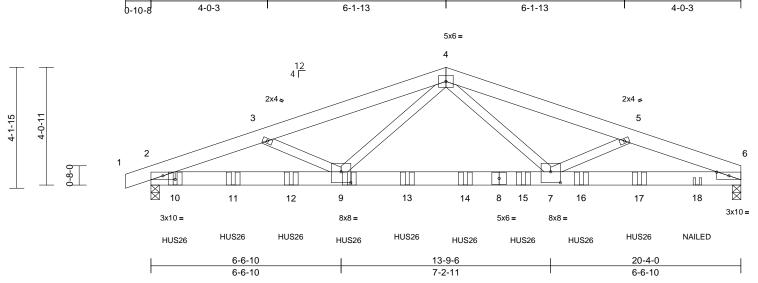


Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	К4	COMMON GIRDER	1	3	Job Reference (optional)	148527952

10-2-0

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:48:14 Page: 1 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 16-3-13 20-4-0



Scale = 1:39.7

Plate Offsets (X, Y): [2:0-5-1,0-1-8], [6:0-5-1,0-1-8], [7:0-4-0,0-4-8], [9:0-4-0,0-4-8]

-0-10-8

4-0-3

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		тс	0.31	Vert(LL)	-0.13	7-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.56	Vert(CT)	-0.23	7-9	>999	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.39	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.07	7-9	>999	240	Weight: 317 lb	FT = 10%
BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS (FORCES TOP CHORD BOT CHORD BOT CHORD WEBS NOTES 1) 3-ply truss ((0.131"x3") Top chords staggered a Web conne 2) All loads ar except if no CASE(5) a	6-0-0 oc purlins. Rigid ceiling directly bracing. (lb/size) 2=5495/0 Max Horiz 2=67 (LC Max Uplift 2=-263 (L (lb) - Maximum Com Tension 1-2=0/7, 2-3=-10644 4-5=-11173/223, 5-6 2-9=-455/9870, 7-9= 6-7=-313/10147 4-7=0/4786, 5-7=-4/ 3-9=-24/719 to be connected toge nails as follows: s connected as follows: at 0-9-0 oc. ords connected as follows: 2x4 - re considered equally bed as front (F) or ba ection. Ply to ply com o distribute only loads srwise indicated.	C 4), 6=-185 (LC 5) pression/Maximum 4/473, 3-4=-10818/35 5=-10953/365 166/7189, 796, 4-9=-142/4309, ther with 10d s: 2x6 - 2 rows ows: 2x6 - 2 rows ows: 2x6 - 2 rows -1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LO nections have been noted as (F) or (B),	ond gust) ond gust) opps; h=25ft; a) exterior zo vertical left ar grip DOL=1.) ps bottom other live load e load of 20. a rectangle veen the bott ers) of truss : 85 lb uplift ar ith the 2018 is R502.11.1 a ISJ/TPI 1. Od Girder, 4- c max. startin onnect truss(Dd Girder, 6- tat 16-10-0 fm t face of botto tact with lum or 3-12d nes. Increase=1. 862 (F), 12=- 853 (F), 16=-	ne; nd 60 dds. 0psf om to t 10d g at es) 10d om om ber. 15, 853				JUAN C BROCKSSONA	MISSOUR NCIA BER 62101 ALENO SARCIA NSEO 52 ALENO				

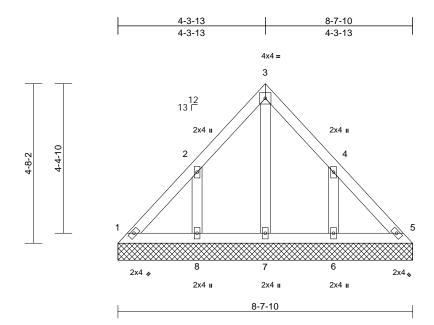
October 27,2021



Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	LAY1	GABLE	1	1	Job Reference (optional)	148527953

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Scale =	1:33.8
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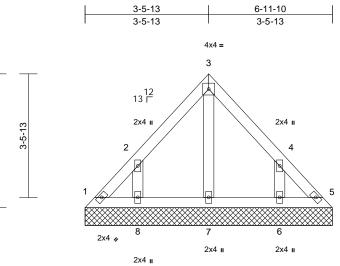
			i											
Loading	(r	osf)	Spacing	2-0-0	1	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		5.0	Plate Grip DOL	1.15		тс	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	1	0.0	Lumber DOL	1.15		BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.03	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	1	0.0	Code	IRC2	018/TPI2014	Matrix-P							Weight: 32 lb	FT = 10%
LUMBER					6) This truss ha	s been designed	for a 10.	0 psf bottom						
TOP CHORD	2x4 SPF No.2					ad nonconcurrent			ds.					
BOT CHORD	2x4 SPF No.2					nas been designe			Opsf					
OTHERS	2x4 SPF No.2					n chord in all area								
BRACING	_					by 2-00-00 wide w by other members		veen the botto	m					
TOP CHORD	Structural woo 6-0-0 oc purlin		athing directly applied	d or	8) Provide med	hanical connectio	n (by oth							
BOT CHORD	Rigid ceiling d		applied or 10-0-0 oc			e capable of withs at joint 5, 161 lb u								
DELOTIONO	bracing.				uplift at joint		piire at jo							ULL.
REACTIONS			10, 5=88/8-7-10, 7-10, 7=103/8-7-10,			designed in accor							N'OF	MISSIL
		19/8-7				Residential Code nd referenced sta			ind				1 XE	
	Max Horiz 1=1	15 (LC	C 5)				nuaru Ar	N31/TFTT.				~	X4	
			2 4), 5=-4 (LC 5), 6=-1	61	LOAD CASE(S)	Standard							S JUA	AN
			-161 (LC 8)									24	GAR	CIA :==
			C 16), 5=100 (LC 18), C 16), 7=124 (LC 18),									2.0	1	
		250 (LC										= T	· · · · · ·	in=
FORCES		``	pression/Maximum									= 3	NUM	• []] .
	Tension											-1	E-20001	162101
TOP CHORD		2-3=-1	00/86, 3-4=-91/69,									1	· · · · ·	
	4-5=-106/75												IS/ON	ENIN
BOT CHORD	1-8=-48/102, 7 5-6=-48/102	(-8=-4	8/102, 6-7=-48/102,										1111	ihin
WEBS	3-7=-87/3, 2-8	=-204	/189, 4-6=-204/188											
NOTES													THUNN UAN C	
1) Unbalance	ed roof live loads	s have	been considered for										NAN	ARCIN
this design													S CE	NSA
			(3-second gust) DL=6.0psf; h=25ft; C	• +								1	in Lion	SO .
			velope) exterior zone									-	6 / E	1 2
			; end vertical left and									-	16	952
			0 plate grip DOL=1.6									=	- IU	
			the plane of the trus									-	D.	
			(normal to the face), d Details as applicabl										- On the Har	5.1.54
			gner as per ANSI/TPI										1.60	G
			m chord bearing.										ON ON	ALEN
5) n/a			5										1111	mm.
													Ootobo	r 07 0001

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Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	LAY2	GABLE	1	1	Job Reference (optional)	148527954

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6-11-10

Scale = 1:32.5				I						I			
Loading	(psf	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		1.15		тс	0.05	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	0.03	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-P							Weight: 25 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	6-0-0 oc purlins.	sheathing directly applictly applied or 10-0-0	8)	chord live lo * This truss on the botto 3-06-00 tall chord and a Provide me bearing plat	as been designe bad nonconcurre has been desig m chord in all at by 2-00-00 wit ny other membe chanical connec te capable of wit ft at joint 5, 137 t 6	nt with any ned for a liv reas where e will fit betw ers. tion (by othe hstanding 3	other live loa e load of 20.1 a rectangle veen the bott ers) of truss 3 lb uplift at	ads. Opsf tom to joint					11.
	6=180 8=180 Max Horiz 1=-91	5-11-10, 5=46/6-11-10 /6-11-10, 7=113/6-11- /6-11-10 (LC 4) (LC 6), 5=-18 (LC 7), (10, ⁹⁾	This truss is Internationa	designed in ac I Residential Co and referenced s	de sections	R502.11.1 a	and				XA.E. OF	MISSOU

	Max Grav	(LC 9), 8=-137 (LC 8) 1=79 (LC 17), 5=72 (LC 18), 6=206 (LC 16), 7=117 (LC 18), 8=206 (LC 15)
FORCES	· · ·	mum Compression/Maximum
TODOLODD	Tension	

3-9-5

$\begin{array}{rl} \text{TOP CHORD} & 1\text{-}2\text{-}109/80, 2\text{-}3\text{-}97/68, 3\text{-}4\text{-}90/55, \\ & 4\text{-}5\text{-}96/60 \\ \text{BOT CHORD} & 1\text{-}8\text{-}36/76, 7\text{-}8\text{-}36/76, 6\text{-}7\text{-}\text{-}36/76, \\ & 5\text{-}6\text{-}\text{-}36/76 \\ \text{WEBS} & 3\text{-}7\text{-}\text{-}75/0, 2\text{-}8\text{-}171/158, 4\text{-}6\text{-}\text{-}171/157 \\ \end{array}$

NOTES

- 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 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, and the study of the default of the study.
- or consult qualified building designer as per ANSI/TPI 1. 4) Gable requires continuous bottom chord bearing.
- 5) n/a



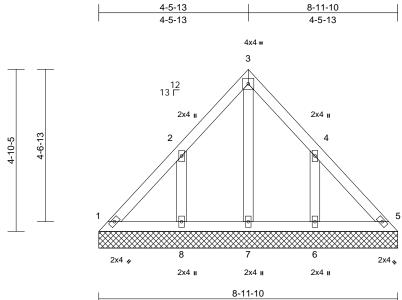
Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	LAY3	GABLE	1	1	Job Reference (optional)	148527955

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Scale =	1:34.6
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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-P	0.07 0.03 0.03	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 34 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing. (Ib/size) 1=95/8-1 6=229/8- 8=229/8- Max Horiz 1=120 (LI Max Uplift 1=-22 (LC UC 9), 8: Max Grav 1=118 (LI 6=261 (LI	8) , 9) 168 L (chord live loa * This truss h on the bottom 3-06-00 tall b chord and an Provide mech bearing plate 1, 2 lb uplift at uplift at joint (This truss is of International	designed in accor Residential Code nd referenced star	with any d for a liv is where ill fit betv n (by oth anding 2 plift at joi dance w sections	other live load re load of 20.0 a rectangle veen the botto ers) of truss to 22 lb uplift at jo int 8 and 168 ith the 2018 s R502.11.1 a	opsf om o oint Ib			In the second se	JUA GAR		
8=261 (LC 15) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-126/100, 2-3=-100/90, 3-4=-91/72, 4-5=-109/80 BOT CHORD 1-8=-50/107, 7-8=-50/107, 6-7=-50/107,											in the second se	NUMI E-20001	• 41.
 5-6=-50/107 WEBS 3-7=-89/4, 2-8=-213/197, 4-6=-213/197 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 4) Gable requires continuous bottom chord bearing. 5) n/a 											. AUTUAL	PRO 169	BARCIA NSEO 952

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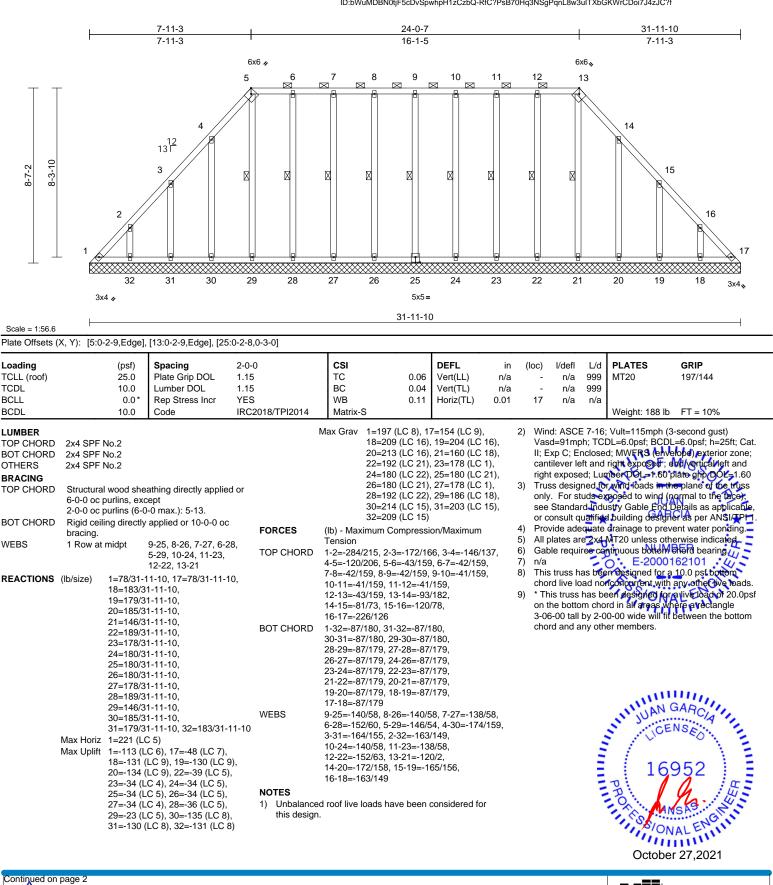
October 27,2021

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	LAY4	GABLE	1	1	Job Reference (optional)	148527956

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Mitek[®] 16023 Swingley Ridge Rd Chesterfield, MO 63017



Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	LAY4	GABLE	1	1	Job Reference (optional)	148527956

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 1, 48 lb uplift at joint 17, 34 lb uplift at joint 25, 34 lb uplift at joint 26, 34 lb uplift at joint 27, 36 lb uplift at joint 28, 23 lb uplift at joint 29, 135 lb uplift at joint 30, 130 lb uplift at joint 31, 131 lb uplift at joint 32, 34 lb uplift at joint 24, 34 lb uplift at joint 23, 39 lb uplift at joint 22, 134 lb uplift at joint 20, 130 lb uplift at joint 19 and 131 lb uplift at joint 18.

11) 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

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:48:16 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 2



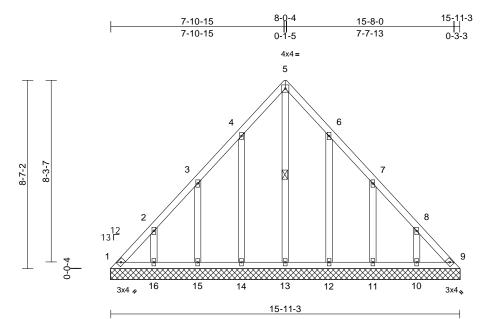
Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	LAY5	Lay-In Gable	2	1	Job Reference (optional)	148527957

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Page: 1

October 27,2021

16023 Swingley Ridge Rd Chesterfield, MO 63017



Scale = 1:52.6

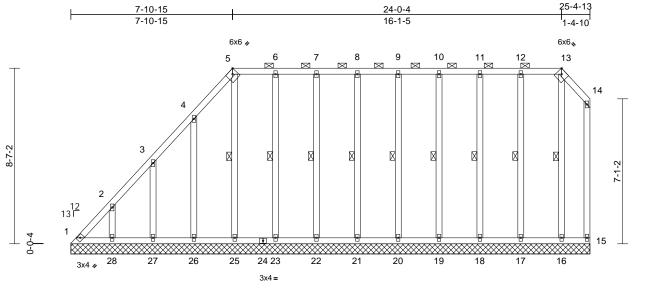
Loading TCLL (roof) (ps) 2.50 Spacing Plate Grip DOL Lumber DOL 1.15 CSI TC TCL DC DEFL 0.00 in (loc) (idc) Udd Lub PLATES Plate ORP PLATE BCL 0.00 Rep Stress incl YES TCL UMBER 0.01 Rep Stress incl YES 0.01 PLATES ORP COUL 1.00 Code VES 0.01 PLATES ORP UMBER 0.00 Rep Stress incl YES VES 0.01 9 n/a n/a DOT CHORD 2:4 SPF No.2 Stress incl YES -13-17321 4 -14-178/155. Stress incl YES 10 -0 -0 oc bracking ing directly applied or 10-0 -0 oc bracking in the period of live loads in the plane of twind loads in the pla	TC BC WB Matrix-S WEBS 5-13=-173/21, 4 3-15=-164/156, 6-12=-174/154, 8-10=-163/149 NOTES 1) Unbalanced roof live loads I this design.	0.06 0.04 0.11 Vert(LL) Vert(TL) Horiz(TL Horiz(TL 4-14=-176/155, , 2-16=-163/149, , 7-11=-165/157,	n/a n/a .) 0.01	-	n/a n/a	999 999	MT20	197/144
BCDL 10.0 Code IRC2018/TP12014 Marks Weight: 79 lb FT = 10% LUMBER TOP CHORD 2x4 SPF No.2 Status Weight: 79 lb FT = 10% BOT CHORD 2x4 SPF No.2 Status Status WEBS 5-13-173/21, 4-14176/155, 3-15-163/149, 6-12-173/23, 4-14-1-163/149, 6-12-174/156, 7-11-106/157, 8-15-163/149, 6-12-174/156, 7-11-106/157, 8-15-163/149, 6-12-174/156, 7-11-106/157, 8-10-163/149, 6-12-174/156, 7-11-106/157, 8-10-163/149, 6-12-174/156, 7-11-106/157, 8-10-163/149, 6-12-174/156, 7-11-106/157, 8-10-163/149, 6-12-174/156, 7-11-106/157, 12-174/15, 1-11-10, 12-183/15-11-10, 12-187/15-116-10, 12-187/15-116-10, 12-19/10/16-10, 12-187/15-116-10, 12	Matrix-S WEBS 5-13=-173/21, 4 3-15=-164/156, 6-12=-174/154, 8-10=-163/149 NOTES 1) Unbalanced roof live loads I this design.	4-14=-176/155, , 2-16=-163/149, , 7-11=-165/157,	, 					FT = 10%
TOP CHORD B0T CHORD OTHERS 2x4 SPF No.2 3-15—164/156, 2-16-163/149, 6-20 or purins. BRACING TOP CHORD BCT CHORD BOT CHORD BOT CHORD WEBS Structural wood sheathing directly applied or 10-0-0 or bracing. NOTES BRACTIONS BOT CHORD WEBS Structural wood sheathing directly applied or 10-0-0 or bracing. NOTES WEBS 1. Row at might 1-81/15-11-10, 10-183/15-11-10, 11-179/15-11-10, 11-179/15-11-10, 11-179/15-11-10, 11-179/15-11-10, 11-179/15-11-10, 11-137/15-11-10, 12-22/8/15-11-10,	3-15=-164/156, 6-12=-174/154, 8-10=-163/149 NOTES 1) Unbalanced roof live loads I this design.	, 2-16=-163/149, , 7-11=-165/157,	d for					
	 Vasd=91mph; TCDL=6.0ps II; Exp C; Enclosed; MWFR cantilever left and right exporight exposed; Lumber DOL Truss designed for wind loa only. For studs exposed to see Standard Industry Gabl or consult qualified building All plates are 2x4 MT20 unl Gable requires continuous t Gable studs spaced at 2-0-17 This truss has been design chord live load nonconcurre * This truss has been design on the bottom chord in all a 3-06-00 tall by 2-00-00 wide chord and any other membe Provide mechanical connect bearing plate capable of wit 1, 59 lb uplift at joint 15, 131 lb uplift joint 12, 132 lb uplift at joint 10. This truss is designed in act International Residential Co R802.10.2 and referenced s 	f; BCDL=6.0psf; h=25 S (envelope) exterior osed ; end vertical left =1.60 plate grip DOL- ids in the plane of the wind (normal to the fa le End Details as appl designer as per ANS less otherwise indicate bottom chord bearing. 0 oc. ed for a 10.0 psf botto ent with any other live ned for a 10.0 psf botto ent with any other live exist in the beare a rectangl e will fit between the b ers. bottom (by others) of trust thstanding 95 lb uplift lb uplift at joint 14, 13 t at joint 16, 130 lb up : 11 and 131 lb uplift a cordance with the 201 bode sections R502.11.	Sift; Cat. zone; t and =1.60 truss ace), licable, l/TPI 1. ed.				GAP NUM E-2000 SS/ON UCE 16 PROXISSION	BER 162101 ALENG SARCIA NSEO 952 SALENG
							I, ON	VALE
VONAL ENT								1111
		International Residential Co R802.10.2 and referenced	International Residential Code sections R502.11 R802.10.2 and referenced standard ANSI/TPI 1.	International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.	International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.	International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.	International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. DAD CASE(S) Standard	



Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	LAY6	Lay-In Gable	1	1	Job Reference (optional)	148527958

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Oct 26 12:48:17 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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25.	4-	1	3
20	-4-	1.	0

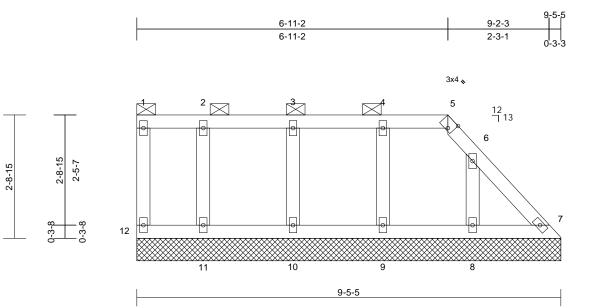
Scale = 1:56.4 Plate Offsets (X, Y): [5:0-2-9,Edge], [13:0-2-9,Edge]

- 1010 0110010 (,, ,, ,, [0.0	2 0,20g0],	[13.0-2-3,Euge]											
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-S	0.25 0.09 0.11	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 15	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 166 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD WEBS REACTIONS	2x4 SPF 2x4 SPF 2x4 SPF Structura 6-0-0 oc 2-0-0 oc Rigid ceil bracing. 1 Row at (lb/size) Max Horiz Max Uplift Max Grav	No.2 No.2 No.2 No.2 I wood she: purlins, exc purlins, exc purlins (6-0 ing directly midpt 1=61/25-4 16=144/25 18=178/22 22=177/22 22=165/22 22=177/22 22=165/22 22=177/22 22=165/22 22=177/22 22=131 (LC 1=-141 (L 18=-38 (L 20=-34 (L 20=-34 (L 20=-34 (L 27=-130 (1=254 (LC 16=144 (L 18=178 (L 20=180 (L 22=177 (L 22=180 (L 22=177 (L 25=180 (L 27=203 (L	athing directly applie cept end verticals, ar -0 max.): 5-13. applied or 10-0-0 oc 13-16, 12-17, 11-18 10-19, 9-20, 8-21, 7- 6-23, 5-25 I-13, 15=48/25-4-13, 5-4-13, 17=191/25-4 5-4-13, 21=180/25-4 5-4-13, 26=183/25-4 5-4-13, 26=183/25-4	d or B ⁽¹⁾ d or d or	OP CHORD OT CHORD OT CHORD /EBS Unbalanced this design. Unbalanced this design. Wind: ASC Vasd=91m; II; Exp C; E cantilever la right expos Truss desig only. For s see Standa or consult c Provide add or Consult c Provide add All plates a Gable requ Gable stud; This truss f	1-2=-348/255, 2-3 4-5=-201/161, 5-6 7-8=-116/106, 8-9 10-11=-116/106, 1 12-13=-117/105, 1 14-15=-183/135 1-28=-102/77, 27- 26-27=-102/77, 22 23-25=-100/76, 12 17-28=-100/76, 12 17-18=-100/76, 16 13-16=-114/142, 1 11-18=-139/59, 10 9-20=-140/58, 8-2 6-23=-155/66, 5-2 4-26=-171/157, 3- 2-28=-166/151	=-117/10 =-116/10 11-12=-1 3-14=-2 28=-102 5-26=-10 2-23=-10 3-19=-10 3-19=-10 3-19=-10 3-19=-14 1=-140/5 5=-141/1 27=-164. // e been of so plate in the pl nd (norm ind Deta signer at prevent is so therwit tom choir c. for a 10.1	15, 6-7=-116/10 16, 9-10=-116/10 16, 9-10=-116/10 16, 9-10=-116/10 16, 9-10=-116/10 16, 9-10=-116/10 177, 2/77, 0/76, 0	96, 006, 58, 58, 0 5 e,, 1.	on t 3-0 cho 10) Pro bea join upli 19, upli 25, 133 11) This Inte R8 12) Gra or t	the botto 6-00 tall ord and a vide me aring pla t 1, 78 II ff at join 133 Ib up iff at join 133 Ib up iff at join 133 Ib up blo upliff s truss is ernationa 02.10.2 a phical p he orien tom cho CASE(S	om cho by 2-0 any oth hcchanic te cape b uplift t t2, 4; uplift at t t2, 4; uplift at t at join al Resi uurlin re tation o rd. Sta	een designed for i rol in all areas wh 0-00 wide Willfiff er members F al confection (by able of withstandii out 20, 34 Brobhi 21b uplift at joint 2 ibint 26, 130 lb u 22b uplift at joint 2 ibint 26, 130 lb u 28. NUME ned in Economic and area and profesentaling dop of the puplin along ndard	a live load of 20.0psf ere a rectangle setwagen the bottom VIS others) optruss to og 141 lb uplift at point 21, 34 lb 23, 98 lb uplift at joint Part joint 21, 34 lb 23, 98 lb uplift at joint Part joint 27 and SER 6 with the 2018 ions R502 441 and JANSI/TEN ANSI/TEN the top and/or
													Octobei	27,2021



Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	LAY7	Lay-In Gable	1	1	Job Reference (optional)	148527959

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Scale = 1:25.7

Plate Offsets (X, Y): [5:0-1-7,Edge]

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/T	PI2014	CSI TC BC WB Matrix-S	0.05 0.02 0.02	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 34 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 2x4 SPF No.2 Structural wood she 6-0-0 oc purlins, ex 2-0-0 oc purlins, ex 2-0-0 oc purlins (6-C Rigid ceiling directly bracing. (lb/size) 7=59/9-5- 9=179/9-4 11=160/9 Max Horiz 12=-98 (L Max Uplift 7=-17 (LC (LC 4), 10 5), 12=-17 Max Grav 7=91 (LC 9=179 (LC	cept end verticals, an -0 max.): 1-5. applied or 10-0-0 oc 5, 8=180/9-5-5, 5-5, 10=185/9-5-5, -5-5, 12=46/9-5-5 C 4) c 5), 8=-78 (LC 9), 9= -36 (LC 5), 11=-33 4 (LC 4)	ed or 5) C and 6) C and 7) T c 8) * e=-40 1 (LC a 10) T I	only. For stu see Standard Provide adec All plates are Gable require Gable studs : This truss ha on the botton b-06-00 tall b behord and an Provide mecl pearing plate 2, 17 lb upli tt joint 10, 40 This truss is on the number of the struss is of the stru	ed for wind loads i dids exposed to wind d Industry Gable E alified building des quate drainage to p 2x4 MT20 unless es continuous bott spaced at 2-0-0 ou s been designed f ad nonconcurrent v has been designed in chord in all areas by 2-00-00 wide wi by other members. hanical connection e capable of withsta ft at joint 7, 33 lb u D lb uplift at joint 9 designed in accord Residential Code nd referenced stan	nd (norm nd Deta signer as prevent v or externiv or a 10. with any f for a liv s where Il fit betv n (by oth anding 1 uplift at jo and 78 dance w sections	al to the face Is as applical as per ANSI/TK water ponding se indicated. d bearing.) psf bottom other live load e load of 20.0 a rectangle veen the botto ers) of truss t 4 lb uplift at join tint 11, 36 lb b uplift at join tint the 2018 R502.11.1 a), ole, Pl 1. J. ds. opsf om ooint uplift it 8.				JU/ GAR SS/001	CIA *
FORCES	(lb) - Maximum Com Tension 1-12=-35/17, 1-2=-3 3-4=-32/26, 4-5=-32 6-7=-92/79	2/26, 2-3=-32/26,	o b					ize					GARO
BOT CHORD		/75	,									ILCE	NSED
Vasd=91r II; Exp C; cantilever	6-8=-146/94 CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er r left and right exposed sed; Lumber DOL=1.6	(3-second gust) DL=6.0psf; h=25ft; C nvelope) exterior zon ; end vertical left and	Cat. le;								THINK .	BORNES/ON	952 JSAS CHUI

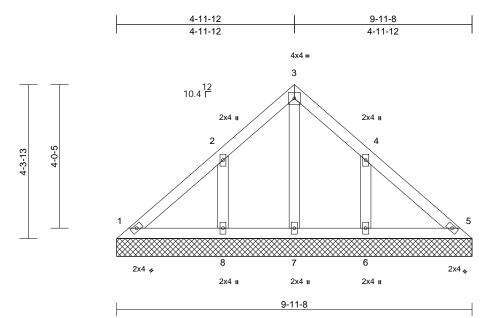


October 27,2021

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	LAY8	GABLE	1	1	Job Reference (optional)	148527960

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Page: 1



Scale = 1:32.3

		1				<u> </u>				1	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (lo	c) l/def		PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	- n/a		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	- n/a			
BCLL	0.0		YES	WB	0.03	Horiz(TL) (0.00	5 n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	4 Matrix-S						Weight: 34 lb	FT = 10%
LUMBER			6) This tru	ss has been designe	d for a 10.	0 psf bottom					
TOP CHORD	2x4 SPF No.2			ve load nonconcurrer							
BOT CHORD	2x4 SPF No.2		7) * This tr	uss has been design	ed for a liv	e load of 20.0ps	f				
OTHERS	2x4 SPF No.2			oottom chord in all are							
BRACING				tall by 2-00-00 wide		ween the bottom					
TOP CHORD	Structural wood s	neathing directly appli		nd any other membe							
	6-0-0 oc purlins.		, h	mechanical connecti plate capable of with							
BOT CHORD		tly applied or 10-0-0 o		b uplift at joint 8 and							
	bracing.		0) This true	ss is designed in acc							11.
REACTIONS		9-11-8, 5=108/9-11-8,	Ínternat	ional Residential Coc						IN OF	MIS
	6=254/ 8=254/	9-11-8, 7=101/9-11-8,	R802.10	0.2 and referenced st	andard Al	NSI/TPI 1.				NE	Sol.
	Max Horiz 1=-104		LOAD CAS	E(S) Standard						A	
		(LC 4) C 4), 6=-134 (LC 9), 8	2134						-	S: JU	ANI · D-
	(LC 8)	0 4), 0= 104 (20 0), 0	- 104						-		
		LC 16), 5=108 (LC 1)							= *	GAF	
	6=274	LC 16), 7=120 (LC 18	3),							1	1 2
	8=274	LC 15)							- 7	NUM	BEB : C-
FORCES		mpression/Maximum								C. E-2000	• []].
	Tension										
TOP CHORD		-87/88, 3-4=-80/74,							1	1.0.	G
	4-5=-83/66	0/04 07 00/04								INS/ON	ALENIN
BOT CHORD	1-8=-38/84, 7-8=- 5-6=-38/84	38/84, 6-7=-38/84,								1111	iiiiii
WEBS		10/158, 4-6=-210/158									
NOTES	0.00,202										IIIII.
	ed roof live loads ha	ve been considered fo	nr							ANIAN	GARC
this design										UCE DE 16	A
2) Wind: ASC	CE 7-16; Vult=115m	oh (3-second gust)								ICE	NSED
		CDL=6.0psf; h=25ft;								(/ Č	- N - E
		envelope) exterior zo							-		
		d; end vertical left ar								16	952
0 1	,	.60 plate grip DOL=1.							-	0:	i a E
		in the plane of the trund nd (normal to the face								P.	1 145
		End Details as applica								- A KA	ICAS
		signer as per ANSI/T								1.50	GIN
	uires continuous bot									10/ON	VALEN
5) n/a		5									IIIII.
,										Ostaba	- 07 0004

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

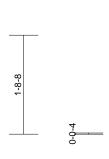


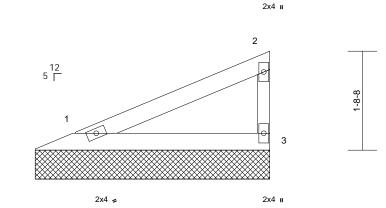
October 27,2021

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	V1	Valley	2	1	Job Reference (optional)	148527961

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or

4-0-10	

4-0-10

Scale	_	1	• 1	ł

Scale = 1:19.9												
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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	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: 10 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2		Ínternational	designed in ac Residential Co nd referenced Standard	ode sections	s R502.11.1 a						

BRACING		
TOP CHORD	Structural	wood sheathing directly applied
	4-1-4 oc p	ourlins, except end verticals.
BOT CHORD	Rigid ceili	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(lb/size)	1=146/4-0-10, 3=146/4-0-10
	Max Horiz	1=60 (LC 5)
	Max Uplift	1=-21 (LC 8), 3=-33 (LC 8)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-2=-53/3	5. 2-3=-114/53

BOT CHORD 1-3=-19/15

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)

- 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.
- * 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.
- Provide mechanical connection (by others) of truss to 7) bearing plate capable of withstanding 21 lb uplift at joint 1 and 33 lb uplift at joint 3.





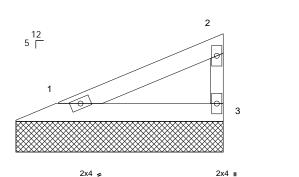
Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	V2	Valley	1	1	Job Reference (optional)	148527962

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2x4 🛚

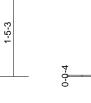
Page: 1





3-4-10

1-5-3





Scale = 1:	18.8
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Loading	(psf)	Spacing	2-0-0	CSI TC	0.11	DEFL	in	(loc)	l/defl	L/d 999	PLATES MT20	GRIP 197/144
TCLL (roof) TCDL	25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	BC	0.11 0.06	Vert(LL) Vert(TL)	n/a n/a	-	n/a n/a	999 999	101120	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	- 3	n/a n/a	999 n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P	0.00	TION2(TL)	0.00	3	n/a	11/a	Weight: 8 lb	FT = 10%
LUMBER		ļ	8) This truss is	designed in acc	ordonoo w	ith the 2019						
TOP CHORD	2x4 SPF No.2			Residential Cod			and					
BOT CHORD	2x4 SPF No.2			and referenced st								
WEBS	2x3 SPF No.2		LOAD CASE(S)	Standard								
BRACING			()	etandara								
TOP CHORD	Structural wood she	athing directly appli	ed or									
	3-5-4 oc purlins, except end verticals.											
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	с									
	bracing.											10.5
REACTIONS	(4-10, 3=116/3-4-10									UNDE.	Mich
	Max Horiz 1=47 (LC	,									NE	SS
	Max Uplift 1=-17 (LC									-	A	
FORCES	(lb) - Maximum Com	npression/Maximum								-	A	ANI : D=
TOP CHORD	Tension 1-2=-42/28, 2-3=-90	///2								2	JU/	
BOT CHORD	,	//42								=*	GAR	
NOTES	1 0= 10/12									-	1	
	CE 7-16; Vult=115mph	(2 second quist)								- 7	NUM	BEB : C-
	nph; TCDL=6.0psf; BC		Cat							=]	E-2000	• 41-
	Enclosed; MWFRS (er										E-2000	102101
	left and right exposed									1	· · · · ·	- diala
	sed; Lumber DOL=1.6										1,SION	I ENIN
2) Truce doe	Truss designed for wind loads in the plane of the truss											

- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 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. * 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.
- Provide mechanical connection (by others) of truss to 7) bearing plate capable of withstanding 17 lb uplift at joint 1 and 26 lb uplift at joint 3.

46 min 16952 PROMINISAS OCTOBER 27,2021 MULLIN III October 27,2021



Job	Truss	Truss Type	Qty Ply		Lot 117 RR	
RR117	V3	Valley	1	1	Job Reference (optional)	148527963

3-6-12

3-6-12

-0-10-8

0-10-8

Wheeler Lumber, Waverly, KS - 66871,

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Oct 26 12:48:19 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

7-1-8

3-6-12



8-0-0

5

GRIP

197/144

FT = 10%

MIS

0-10-8

2 4 0-7-9 3x5 II 3x5 " 2x4 I 7-1-8 Spacing 2-0-0 CSI DEFL l/defl L/d PLATES in (loc) Plate Grip DOL 1.15 тс 0.12 Vert(LL) n/a n/a 999 MT20 Lumber DOL BC 1 15 0.10 Vert(CT) 999 n/a n/a Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 6 n/a n/a Code IRC2018/TPI2014 Matrix-R Weight: 21 lb 8) * 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 9) bearing plate capable of withstanding 74 lb uplift at joint 8 and 76 lb uplift at joint 6. Structural wood sheathing directly applied or 10) This truss is designed in accordance with the 2018 6-0-0 oc purlins, except end verticals. International Residential Code sections R502.11.1 and Rigid ceiling directly applied or 10-0-0 oc R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard 0 6=265/7-1-8, 7=227/7-1-8, 8=265/7-1-8

Max Horiz 8=-19 (LC 13) Max Uplift 6=-76 (LC 9), 8=-74 (LC 8) FORCES (lb) - Maximum Compression/Maximum Tension 2-8=-238/94, 1-2=0/27, 2-3=-149/71, TOP CHORD 3-4=-149/68, 4-5=0/27, 4-6=-238/96 BOT CHORD 7-8=-24/92, 6-7=-24/92 WEBS 3-7=-145/23 NOTES

2x4 SPF No.2

2x4 SPF No.2

2x4 SPF No.2

2x3 SPF No.2

bracing.

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

(psf)

25.0

10.0

10.0

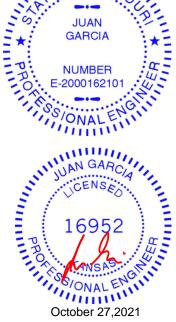
0.0*

- 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

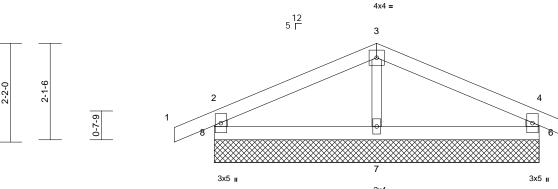
Gable studs spaced at 4-0-0 oc. 6)

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

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 preven tbuckling 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 sand 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







Loading

TCDI

BCLL

BCDL

WEBS

OTHERS

BRACING

TOP CHORD

BOT CHORD

REACTIONS (lb/size)

LUMBER

TOP CHORD

BOT CHORD

TCLL (roof)

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	V4	Valley	1	1	Job Reference (optional)	148527964

3-0-5

3-0-5

Wheeler Lumber, Waverly, KS - 66871,

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5-4-4

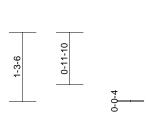
2-3-15

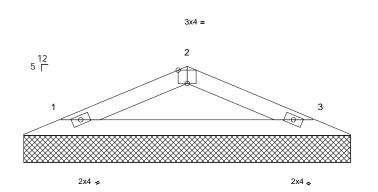


. .

6-0-10

0-8-6





6-0-10

Scale = 1:21.3

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

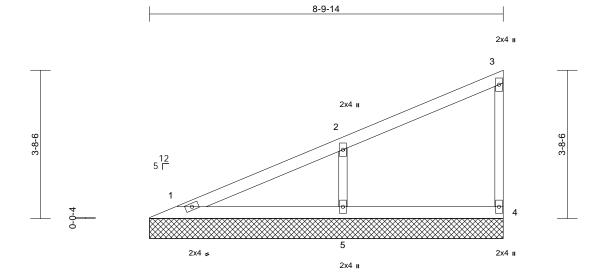
_oading FCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.09	DEFL Vert(LL)	in n/a	(loc) -	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI20	14 Matrix-P							Weight: 13 lb	FT = 10%
	2x4 SPF No.2 2x4 SPF No.2		Intern R802	russ is designed in act ational Residential Co 10.2 and referenced s SE(S) Standard	de sections	R502.11.1 a	Ind					
(Structural wood shea 6-0-0 oc purlins. Rigid ceiling directly											
	bracing.											1117
	o/size) 1=209/6-0 ax Horiz 1=-17 (LC ax Uplift 1=-27 (LC	,									AFEOF	MISSO
	(lb) - Maximum Com Tension	pression/Maximum								E	JU,	
	1-2=-235/69, 2-3=-23 1-3=-48/193	35/69								Ξ*	GAF	RCIA *
NOTES										= 1	1	in in
	roof live loads have	been considered for	r							= 5	NUM	• 41.
this design.	7 40. 14.14 445	(0								-1	E-2000	162101
	7-16; Vult=115mph h; TCDL=6.0psf; BC		Cat								A	G
	closed; MWFRS (en										S/ON	ALENI
	t and right exposed										- 4411	iiiii
	d; Lumber DOL=1.6											
	ed for wind loads in Ids exposed to wind										, initi	
	d Industry Gable End										NAU	GARCIN
	alified building desig										N CE	NSA
	es continuous bottor	m chord bearing.								1		- O ·
,	spaced at 4-0-0 oc.	10.0 (1 //								-	6 A	- A 3
	is been designed for ad nonconcurrent wi		de							-	16	952
	has been designed for									=	10	552
	n chord in all areas		,501							-	HO	
right exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 4) Gable requires continuous bottom chord bearing. 5) Gable studs spaced at 4-0-0 oc. 5) 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												
	ny other members.										1.6.141	VSA
	hanical connection (1, SION	VAL ENIN
	e capable of withstar	naing 27 ib uplift at jo	DINT								1111	inini'i
i anu z <i>i</i> id t	ıplift at joint 3.											er 27,2021
											000000	

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	V5	Valley	1	1	Job Reference (optional)	148527965

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Scale	_	1.28	7

8-9-14

Scale = 1:28.7										•		
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	0.26	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2	014 Matrix-P							Weight: 24 lb	FT = 10%
TOP CHORD BOT CHORD WEBS OTHERS BRACING	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2	athing dispaths and i	4 an 8) This Inter R802	 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 4 and 120 lb uplift at joint 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. 								
TOP CHORD	Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly	cept end verticals.	verticals.									
REACTIONS	bracing. 5 (lb/size) 1=142/8-9-14, 4=129/8-9-14,											

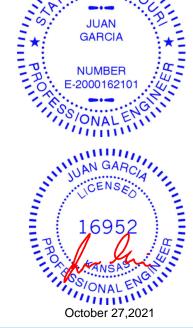
REACTIONS (lb/size) 1=142/8-9-14, 4=129/8-9-14, 5=451/8-9-14 Max Horiz 1=146 (LC 5) Max Uplift 4=-23 (LC 5), 5=-120 (LC 8) FORCES (Ib) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=-115/69, 2-3=-101/28, 3-4=-100/40 BOT CHORD 1-5=-48/36, 4-5=-48/36 2-5=-351/180

WEBS

NOTES

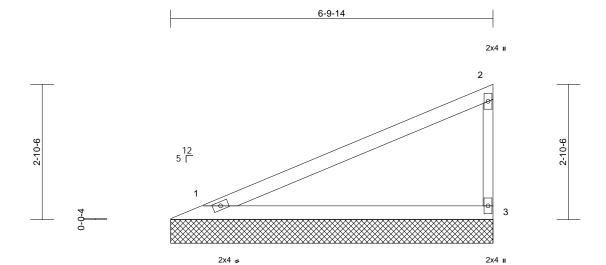
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the 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.
- Gable studs spaced at 4-0-0 oc. 4)
- 5) 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 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.





Job	Truss	Truss Type	Qty	Ply	Lot 117 RR	
RR117	V6	Valley	1	1	Job Reference (optional)	148527966

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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	0.72	Vert(LL)	n/a	(100)	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(TL)	n/a		n/a	999	101120	137/144
				-		· · ·		-				
BCLL BCDL	0.0* 10.0	Rep Stress Incr Code	YES IRC2018/TPI2014	WB Matrix-P	0.00	Horiz(TL)	0.00	3	n/a	n/a	Weight: 17 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2		Ínternationa	s designed in ac al Residential Cc and referenced s) Standard	de sections	R502.11.1 a	and					
TOP CHORD	Structural wood sheathing directly applied or 6-10-8 oc purlins, except end verticals.											
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.											
REACTIONS	bracing. 5 (Ib/size) 1=271/6-9-14, 3=271/6-9-14 Max Horiz, 1=110 (I C 5)											

6-9-14

	Max Horiz	1=110 (LC 5)
	Max Uplift	1=-40 (LC 8), 3=-62 (LC 8)
FORCES	(lb) - Max Tension	imum Compression/Maximum
TOP CHORD	1-2=-98/6	5, 2-3=-211/98
BOT CHORD	1-3=-36/2	7

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)
- 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.
- * 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.
- Provide mechanical connection (by others) of truss to 7) bearing plate capable of withstanding 40 lb uplift at joint 1 and 62 lb uplift at joint 3.

- Infinition JUAN GARCIA NUMBER E-2000162101 C 3 E ONAL mm 16952 Dotober 27,2021



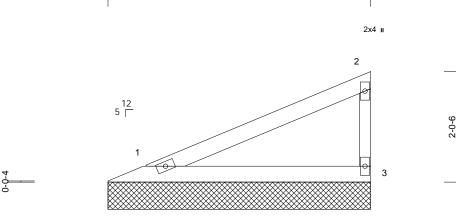
October 27,2021

Job	Truss	Truss Type Qty Ply Lot 117 RR		Lot 117 RR		
RR117	V7	Valley	1	1	Job Reference (optional)	148527967

2-0-6

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4-9-14

4-9-14

2x4 🚅

2x4 II

Scale :	- 1.21	2
Scale :	= 1.21	.2

Loading (psf) TCLL (roof) 25.0 TCDL 10.0 BCLL 0.0* BCDL 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-P	0.30 0.16 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 12 lb	GRIP 197/144 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: 4-10-8 oc purlins, e: BOT CHORD Rigid ceiling directly bracing.	athing directly applie xcept end verticals. applied or 10-0-0 oc -14, 3=181/4-9-14 5) : 8), 3=-41 (LC 8) pression/Maximum 1/65 (3-second gust) DL=6.0psf; h=25ft; C welope) exterior zon ; end vertical left an 0 plate grip DOL=1.6 the plane of the trus (normal to the face) d Details as applicat gner as per ANSI/TF n chord bearing. : 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	8) This truss is Internationa R802.10.2 LOAD CASE(S ad or c Cat. he; d 60 ss s, o, pole, P1 1.	s designed in acc al Residential Coc and referenced st	le sections	s R502.11.1 a	nd				DATE OF JU/ GAR NUM E-2000 SS/ON/ JUAN CE 160 PROCESS/ON	MISSOLA NCIA BER 162101 ALEN SARCIA NSEO 952

- 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 1 and 41 lb uplift at joint 3.

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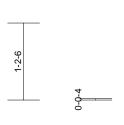
Job	Truss	Truss Type Qty Ply Lot 117 RR		Lot 117 RR		
RR117	V8	Valley	1	1	Job Reference (optional)	148527968

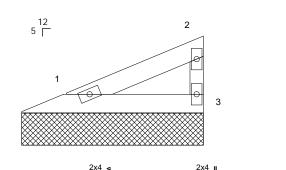
Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Oct 26 12:48:20 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2x4 I

Page: 1







2-9-14



1-2-6



Scale = 1:17.9												
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	0.04	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: 6 lb	FT = 10%

2-9-14

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 2-10-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc BOT CHORD bracing. REACTIONS (lb/size) 1=91/2-9-14, 3=91/2-9-14

Max Horiz 1=37 (LC 5) Max Uplift 1=-13 (LC 8), 3=-21 (LC 8) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-33/22, 2-3=-71/33

BOT CHORD

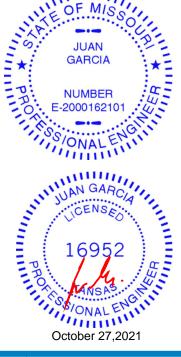
- NOTES
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads 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=-12/9

- 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 13 lb uplift at joint 1 and 21 lb uplift at joint 3.

International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard

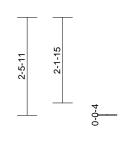
8) This truss is designed in accordance with the 2018

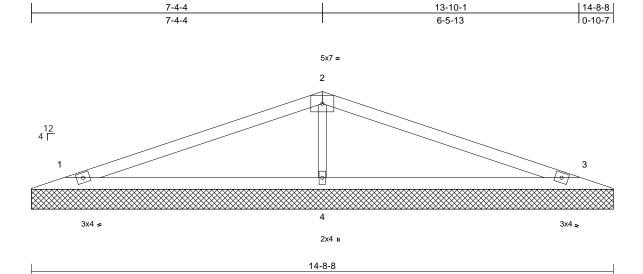




Job	Truss	Truss Type	Qty	Ply	Lot 117 RR		
RR117	V9	Valley	1	1	Job Reference (optional)	148527969	

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Scale = 1:29.1														
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	0.61 0.35 0.09	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCDL		10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 34 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	2x4 SPF No 2x3 SPF No Structural w 6-0-0 oc pu Rigid ceiling bracing. (Ib/size) 1 4 Max Horiz 1 Max Uplift 1 (I Max Grav 1 4	0.2 0.2 0.2 vood shear rlins. g directly =253/14- =660/14- =38 (LC LC 4) =261 (LC =660 (LC hum Com 1, 2-3=-10 3-4=-1/40	athing directly applie applied or 10-0-0 oc 8-8, 3=253/14-8-8, 8-8 8) 4), 3=-60 (LC 9), 4= 2 21), 3=261 (LC 22) 2 1) pression/Maximum 05/49	7) 8) d or 9) L	 * This truss I on the bottoo 3-06-00 tall I chord and ai Provide mec bearing plate 1, 60 lb uplif This truss is International 	has been designe n chord in all are yy 2-00-00 wide v yy other members hanical connectio e capable of withs : at joint 3 and 60 designed in accor Residential Code nd referenced sta	as where will fit betw s. on (by oth standing 5 b lb uplift a ordance w e sections	a rectangle veen the botto 55 lb uplift at ju it joint 4. ith the 2018 i R502.11.1 a	om o pint				JUA GAR NUMI O. E-20001	
NOTES	2-4=-400/13	58											1. So	
		ads have	been considered for										1, ONA	
 Vasd=91n II; Exp C; cantilever right expo: 3) Truss desionly. For see Stand or consult 4) Gable req 5) Gable stut 6) This truss 	nph; TCDL=6. Enclosed; MW left and right e sed; Lumber I igned for wind studs exposed lard Industry G qualified build uires continuo ds spaced at 4 has been des	0psf; BCI VFRS (en exposed ; DOL=1.60 I loads in d to wind Gable End ding desig bus bottor 4-0-0 oc. signed for	(3-second gust) DL=6.0psf; h=25ft; C velope) exterior zonr; ; end vertical left and 0 plate grip DOL=1.6 the plane of the trus (normal to the face), d Details as applicab gner as per ANSI/TPI n chord bearing. a 10.0 psf bottom th any other live load	e; 0 s le, ∣1.								. annua.	PROKESS/ON	ARCIA NSEO 952 ALENOIT



Job	Truss	Truss Type	Qty Ply Lot 117 RR		Lot 117 RR	
RR117	V10	Valley	1	1	Job Reference (optional)	148527970

1-3-15

1-7-11

Scale = 1:23.5 Loading

TCLL (roof)

TCDI

BCLL

BCDL

LUMBER

TOP CHORD



Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Oct 26 12:48:21 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 4-10-4 8-10-1 9-8-8 4-10-4 3-11-13 0-10-7 4x5 =2 12 4 Г 3 4 2x4 🕿 2x4 = 2x4 🛛 9-8-8 Spacing 2-0-0 CSI DEFL l/defl L/d PLATES GRIP in (loc) Plate Grip DOL 1.15 тс 0.21 Vert(LL) n/a n/a 999 MT20 197/144 BC Lumber DOL 1 15 0.13 999 Vert(TL) n/a n/a Rep Stress Incr YES WB 0.05 Horiz(TL) 0.00 3 n/a n/a Code IRC2018/TPI2014 Matrix-S Weight: 21 lb FT = 10% 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. Provide mechanical connection (by others) of truss to

bearing plate capable of withstanding 34 lb uplift at joint

International Residential Code sections R502.11.1 and

1, 37 lb uplift at joint 3 and 37 lb uplift at joint 4.

This truss is designed in accordance with the 2018

R802.10.2 and referenced standard ANSI/TPI 1.

BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 OTHERS BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (lb/size) 1=155/9-8-8, 3=155/9-8-8, 4=405/9-8-8 Max Horiz 1=-24 (LC 9) 1=-34 (LC 4), 3=-37 (LC 9), 4=-37 Max Uplift (LC 4) Max Grav 1=160 (LC 21), 3=160 (LC 22), 4=405 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension

(psf)

25.0

10.0

10.0

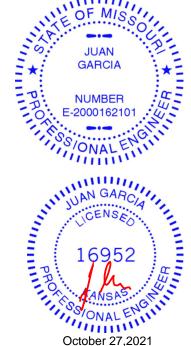
2x4 SPF No.2

0.0*

TOP CHORD 1-2=-65/37, 2-3=-65/30 BOT CHORD 1-4=-1/25, 3-4=-1/25 WEBS 2-4=-285/84

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
- 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.
- 4) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc. 5) 6)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



October 27,2021

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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 preven tbuckling 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 sand 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

9)

LOAD CASE(S) Standard

