Garcia, Juan

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

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

01/11/2021

RE: W2 45 Lot 45 W2

liTek

Site Information:

Customer: Project Name: W2 45 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: N/A Roof Load: 45.0 psf Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 65 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	143918016	A1	12/9/2020	21	143918036	C4	12/9/2020
2	143918017	A2	12/9/2020	22	l43918037	C5	12/9/2020
3	I43918018	A3	12/9/2020	23	l43918038	D1	12/9/2020
4	I43918019	A4	12/9/2020	24	I43918039	D2	12/9/2020
5	143918020	B1	12/9/2020	25	I43918040	D3	12/9/2020
6	143918021	B2	12/9/2020	26	l43918041	D4	12/9/2020
7	143918022	B3	12/9/2020	27	143918042	D5	12/9/2020
8	143918023	B4	12/9/2020	28	I43918043	D6	12/9/2020
9	143918024	B6	12/9/2020	29	143918044	D7	12/9/2020
10	143918025	B7	12/9/2020	30	l43918045	D8	12/9/2020
11	143918026	B8	12/9/2020	31	143918046	D9	12/9/2020
12	143918027	B9	12/9/2020	32	143918047	D10	12/9/2020
13	143918028	B10	12/9/2020	33	143918048	D11	12/9/2020
14	143918029	B11	12/9/2020	34	143918049	D12	12/9/2020
15	143918030	B12	12/9/2020	35	143918050	D13	12/9/2020
16	143918031	B13	12/9/2020	36	l43918051	E1	12/9/2020
17	143918032	B14	12/9/2020	37	143918052	E2	12/9/2020
18	143918033	C1	12/9/2020	38	I43918053	E3	12/9/2020
19	143918034	C2	12/9/2020	39	l43918054	J1	12/9/2020
20	143918035	C3	12/9/2020	40	143918055	J2	12/9/2020

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.



RE: W2 45 - Lot 45 W2

Site Information:

Project Customer: Project Name: W2 45 Lot/Block: Address: City, County:

No.	Seal#	Truss Name	Date
41	143918056	J3	12/9/2020
42	143918057	J4	12/9/2020
43	143918058	J5	12/9/2020
44	143918059	JG	12/9/2020
45	143918060	J7	12/9/2020
46	143918061	J8	12/9/2020
47	143918062	J9	12/9/2020
48	143918063	J10	12/9/2020
49	143918064	J11	12/9/2020
50	143918065	J12	12/9/2020
51	143918066	J13	12/9/2020
52	143918067	J14	12/9/2020
53	143918068	J15	12/9/2020
54	143918069	J16	12/9/2020
55	143918070	J17	12/9/2020
56	143918071	J18	12/9/2020
57	143918072	J19	12/9/2020
58	143918073	J20	12/9/2020
59	143918074	J21	12/9/2020
60	I43918075	LAY1	12/9/2020
61	143918076	LAY2	12/9/2020
62	143918077	LAY3	12/9/2020
63	143918078	LAY4	12/9/2020
64	143918079	V1B	12/9/2020
65	I43918080	V2	12/9/2020

01/11/2021

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

Subdivision:

State:

Garcia, Juan

December 09, 2020

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

01/11/2021

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

RE: W2 45 Lot 45 W2

Site Information:

Customer: Project Name: W2 45 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: N/A Roof Load: 45.0 psf Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 65 individual, dated Truss Design Drawings and 0 Additional Drawings.

	• • • •					_	-
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	l43918016	A1	12/9/2020	21	l43918036	C4	12/9/2020
2	143918017	A2	12/9/2020	22	l43918037	C5	12/9/2020
3	l43918018	A3	12/9/2020	23	l43918038	D1	12/9/2020
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20	143918035	C3	12/9/2020	40	143918055	J2	12/9/2020

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

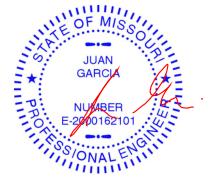
MiTek USA, Inc under my direct supervision

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, 2020. Missouri COA: 001193

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.





RE: W2 45 - Lot 45 W2

Site Information:

Project Customer: Project Name: W2 45 Lot/Block: Address: City, County:

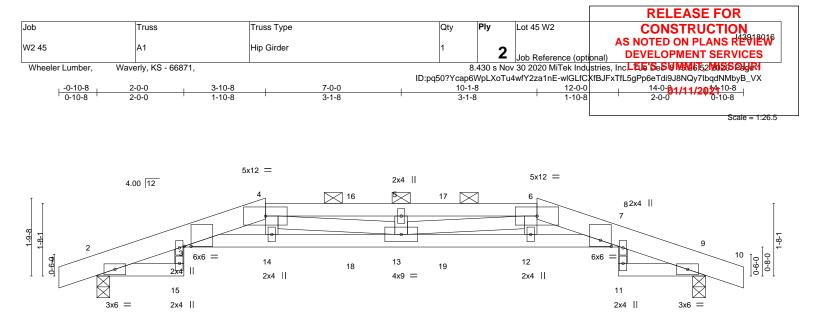
No.	Seal#	Truss Name	Date
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64	143918079	V1B	12/9/2020
65	I43918080	V2	12/9/2020

01/11/2021

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

Subdivision:

State:



F	2-0-0 3-10-8 2-0-0 1-10-8	7-0-0	10-1-8		12-0-0 1-10-8	14-0-0	
Plate Offsets (X,Y)	[3:0-1-15,0-0-0], [7:0-3-0,0-1-11]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.86 BC 0.73 WB 0.09 Matrix-S	DEFL. in Vert(LL) -0.20 Vert(CT) -0.35 Horz(CT) 0.19 Wind(LL) 0.17	(loc) l/defl 13 >837 13 >467 9 n/a 13 >971	L/d 360 240 n/a 240	PLATES MT20 Weight: 100 lb	GRIP 197/144 FT = 10%
BOT CHORD 2x4 SF WEBS 2x4 SF 3-15,8-	PF No.2 *Except* 4 SPF No.2 PF No.2 *Except* -11: 2x3 SPF No.2 e) 2=0-3-8, 9=0-3-8		BRACING- TOP CHORD BOT CHORD	2-0-0 oc purlins	(5-7-2 max.): 4-	ttly applied or 6-0-0 c -6. 10-0-0 oc bracing.	oc purlins, except
Max H Max U	lorz 2=27(LC 8) lplift 2=-256(LC 4), 9=-253(LC 5) irav 2=1010(LC 1), 9=1015(LC 1)					INTE OF	MISSO
TOP CHORD 2-3=	Comp./Max. Ten All forces 250 -425/117, 3-4=-3965/896, 4-5=-46 -76/441, 8-9=-384/108						JAN P
	=-894/4091, 13-14=-874/4032, 12 =-155/696, 5-13=-264/118, 6-13=-	,	3			GAI	RCIA *
Top chords connect Bottom chords conn Webs connected as 2) All loads are conside ply connections hav	nected together with 10d (0.131% ed as follows: 2x6 - 2 rows stagge lected as follows: 2x4 - 1 row at 0- follows: 2x3 - 1 row at 0-9-0 oc, 2 ered equally applied to all plies, e: e been provided to distribute only	red at 0-9-0 oc, 2x4 - 1 row at 0 9-0 oc. x4 - 1 row at 0-9-0 oc. cept if noted as front (F) or bac loads noted as (F) or (B), unles	k (B) face in the LOAD C/	ASE(S) section. F	Ply to	- 2.	ABER 44
 4) Wind: ASCE 7-16; W MWFRS (envelope) grip DOL=1.60 	e loads have been considered for /ult=115mph (3-second gust) Vas- gable end zone; cantilever left an	l=91mph; TCDL=6.0psf; BCDL:			ate	PRO 16	GARCIA
 6) This truss has been 7) * This truss has bee will fit between the b 	rainage to prevent water ponding. designed for a 10.0 psf bottom ch n designed for a live load of 20.0p bottom chord and any other memb	sf on the bottom chord in all are ers.	eas where a rectangle 3-6		ide	16	952
2=256, 9=253.	connection (by others) of truss to ed in accordance with the 2018 In	51 1	0 1 7	() 10)		PRO	M H
referenced standard 10) Graphical purlin re	I ANSI/TPI 1. presentation does not depict the s	ize or the orientation of the purl	in along the top and/or bo	ottom chord.		A SSIO	NSAS ENGINI
3-10-8, 97 lb down chord, and 195 lb d	connection device(s) shall be pro and 60 lb up at 5-11-4, and 97 lb down and 68 lb up at 3-10-8, 12 ll chord. The design/selection of su	down and 60 lb up at 8-0-12, down at 5-11-4, and 12 lb down	and 97 lb down and 60 lb wn at 8-0-12, and 195 lb o	up at 10-1-8 on	top	Decem	ber 9,2020
Design valid for use o a truss system. Before building design. Brac is always required for fabrication, storage, d	design parameters and READ NOTES ON T inly with MiTek® connectors. This design is e use, the building designer must verify the ing indicated is to prevent buckling of indiv stability and to prevent collapse with possi lelivery, erection and bracing of trusses and available from Truss Plate Institute, 2670 C	based only upon parameters shown, ar applicability of design parameters and p Jual truss web and/or chord members o le personal injury and property damage truss systems, see ANSI/TPI	Id is for an individual building cor roperly incorporate this design in nly. Additional temporary and pe b. For general guidance regardin I Quality Criteria, DSB-89 and I	mponent, not nto the overall ermanent bracing ig the	onent	16023 Swingle Chesterfield, M	

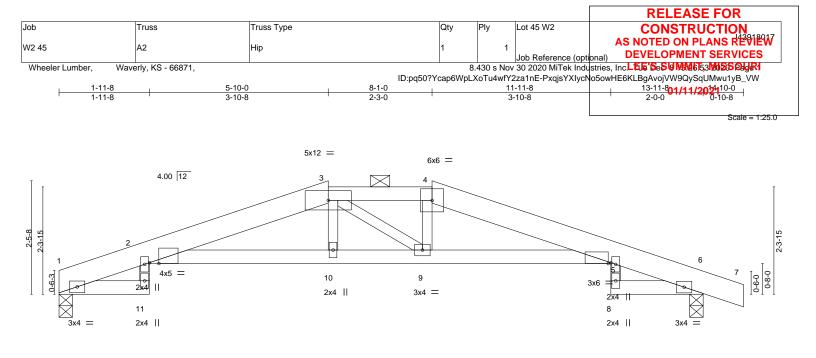
						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 45 W2	CONSTRUCTION AS NOTED ON PLANS REVIEW
W2 45	A1	Hip Girder	1			AS NOTED ON PLANS REVIEW
WZ 45			'		Job Reference (opt	
Wheeler Lumber, Way	verly, KS - 66871,			8.430 s N	lov 30 2020 MiTek Indu	stries, IncLEE'SeSUMM652MISSOUGR1
			ID:pq50?Ycap	6WpLXoT	u4wfY2za1nE-wlGLfC	KfBJFxTfL5gPp6eTdi9J8NQy7lbqdNMbyB_VX
						01/11/2021
LOAD CASE(S) Standar						
1) Dead + Roof Live (hala	nced). Lumber Increas	e-1 15 Plate Increase-1 15				

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

Vert: 1-4=-70, 4-6=-70, 6-10=-70, 2-15=-20, 3-7=-20, 9-11=-20

Concentrated Loads (lb) Vert: 4=-65(F) 6=-65(F) 14=-195(F) 12=-195(F) 16=-65(F) 17=-65(F) 18=-4(F) 19=-4(F)





<u>1-11-8</u> 1-11-8	5-10-0 3-10-8		1-0 3-0		<u>11-11-8</u> 3-10-8		<u>13-11-8</u> 2-0-0	———————————————————————————————————————
Plate Offsets (X,Y)	[2:0-2-7,Edge], [5:0-0-11,Edge]	1	1				I.	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (lo	oc) l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.74	Vert(LL)	-0.16 5	5-9 >999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.61	Vert(CT)	-0.29 5	5-9 >570	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	0.21	6 n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.12 2-1	10 >999	240	Weight: 47 lb	FT = 10%
LUMBER-		1	BRACING	i -			1	

 TOP CHORD
 2x6 SPF No.2 *Except*

 3-4: 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-8-6 oc purlins, except 2-0-0 oc purlins (4-7-14 max.): 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 6=0-3-8 Max Horz 1=-42(LC 13) Max Uplift 1=-97(LC 4), 6=-142(LC 5) Max Grav 1=612(LC 1), 6=689(LC 1)

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

TOP CHORD 1-2=-251/70, 2-3=-1587/227, 3-4=-1534/215, 4-5=-1586/203

BOT CHORD 2-10=-184/1531, 9-10=-182/1536, 5-9=-146/1529

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) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

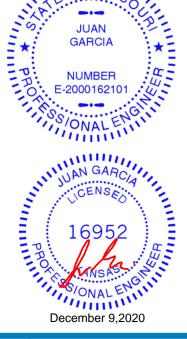
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 6=142.

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

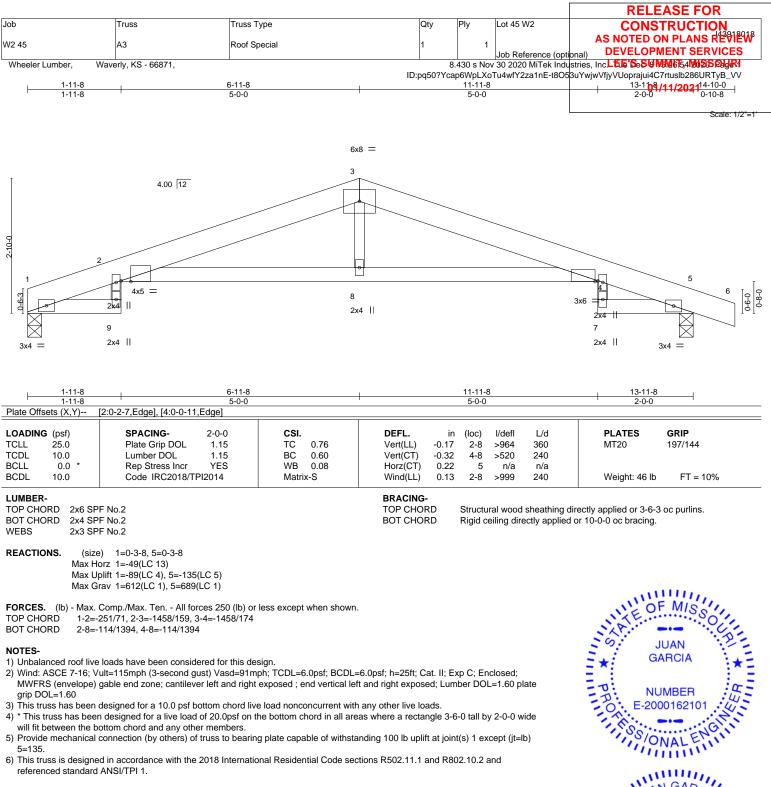
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Mitek° 16023 Swingley Ridge Rd Chesterfield, MO 63017

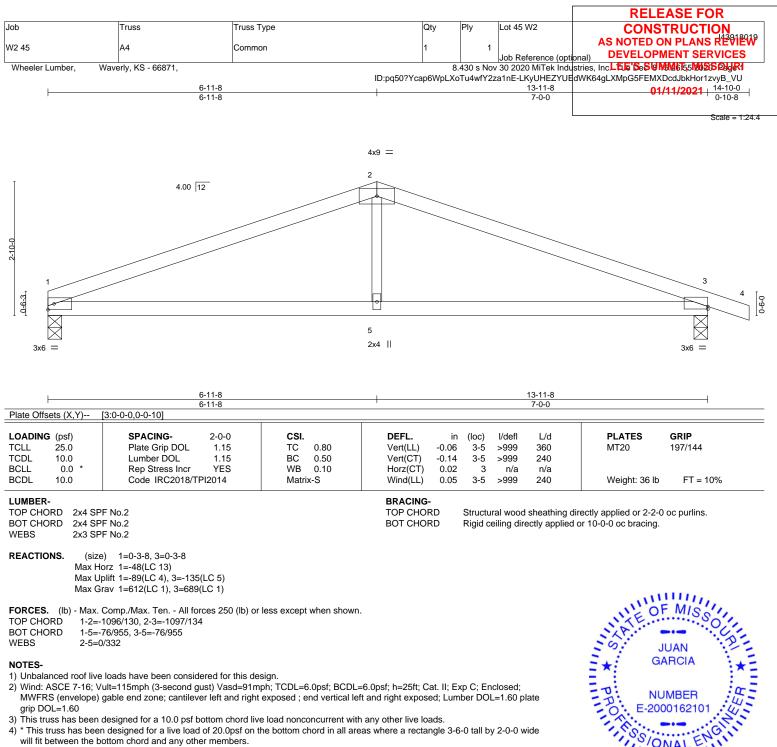
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16023 Swingley Ridge Rd Chesterfield, MO 63017

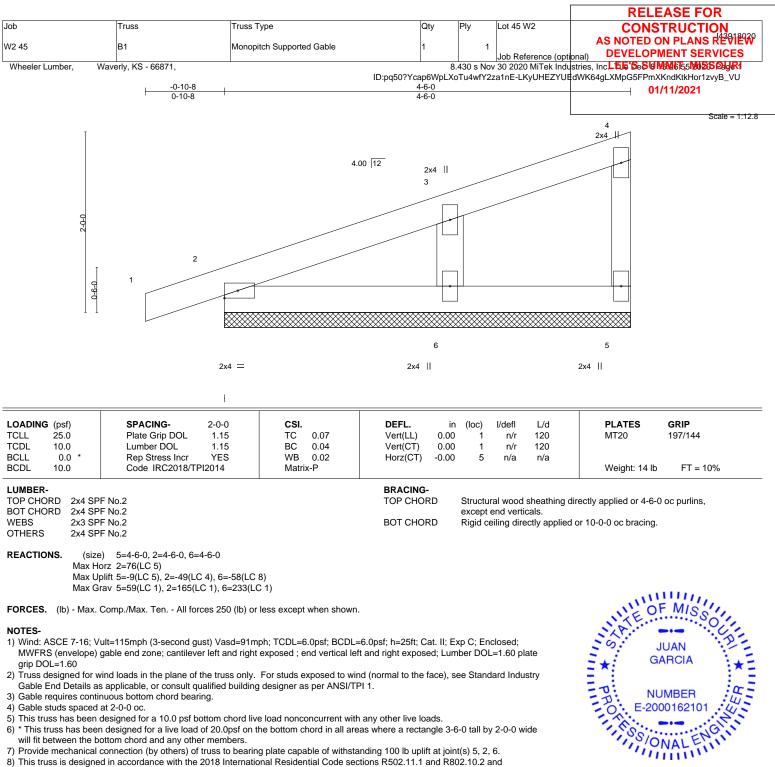


5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 3=135.

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.



mponent 16023 Swingley Ridge Rd Chesterfield, MO 63017

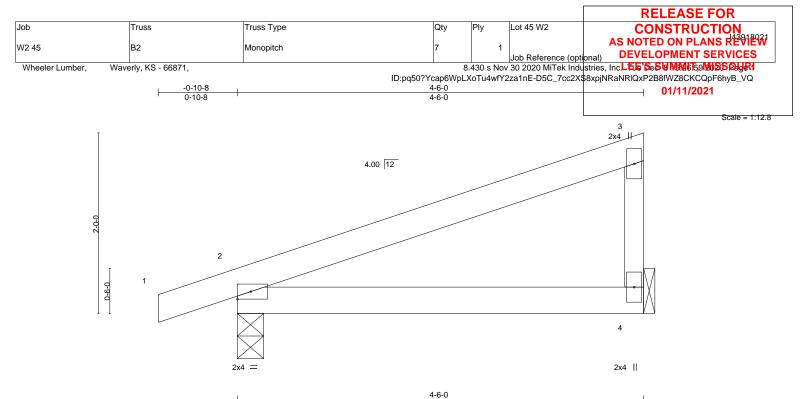




16023 Swingley Ridge Rd Chesterfield, MO 63017

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 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

referenced standard ANSI/TPI 1.



					4-6	-0					
LOADIN	G (psf)	SPACING- 2-	D-0 C	SI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1	.15 T	C 0.30	Vert(LL)	-0.02	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1	.15 B	C 0.18	Vert(CT)	-0.04	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr Y	ES V	/B 0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	14 N	atrix-P	Wind(LL)	0.00	2	****	240	Weight: 13 lb	FT = 10%

LUMBER-

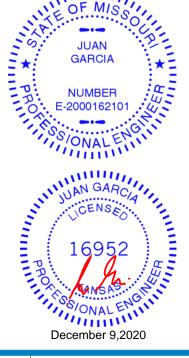
TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2 WEBS

- 2x3 SPF No.2
- REACTIONS. 4=Mechanical, 2=0-3-8 (size) Max Horz 2=76(LC 5) Max Uplift 4=-40(LC 8), 2=-78(LC 4) Max Grav 4=183(LC 1), 2=271(LC 1)

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

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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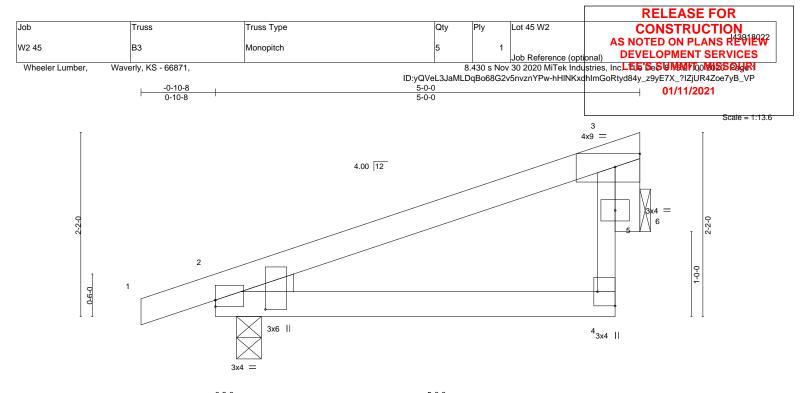
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🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTeK® connectors. This design is based only upon parameters shown, and is for an individual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



BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 4-6-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.



		0-3-0			5-0-						
Plate Offsets (X,Y)-	[2:0-1-5,0-7-1], [2:0-0-0,		ge,0-1-14], [4:E	dge,0-2-8]		-					
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	тс	0.22	Vert(LL)	-0.01	2-4	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.02	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2018/T	PI2014	Matrix	R	Wind(LL)	0.01	2-4	>999	240	Weight: 15 lb	FT = 10%
LUMBER-					BRACING-						

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 OTHERS 2x4 SPF No.2 WEDGE

Left: 2x3 SPF No.2

REACTIONS. (size) 2=0-3-8, 6=Mechanical Max Horz 2=65(LC 5) Max Uplift 2=-77(LC 4), 6=-44(LC 8) Max Grav 2=294(LC 1), 6=179(LC 1)

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

NOTES-

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

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

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 3) 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 100 lb uplift at joint(s) 2, 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.



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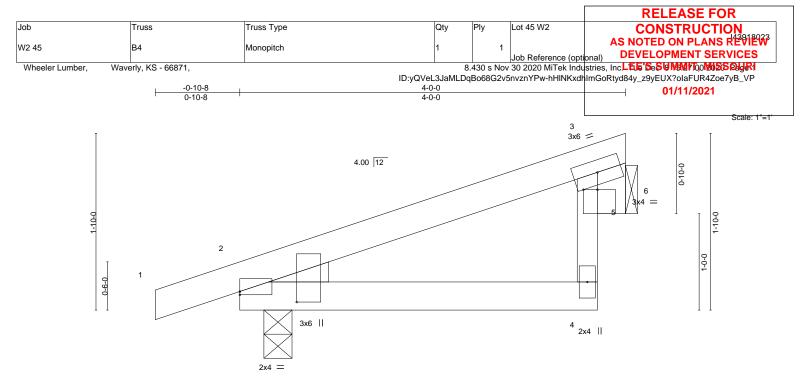
🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTeK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Wint PROM

except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing

Structural wood sheathing directly applied or 5-0-0 oc purlins,



			0-3-0 0-3-0				0-0 9-0					
Plate Offse	ets (X,Y)	[2:0-0-0,0-0-6], [2:0-1-5,0)-7-1], [5:0-1-1	2,0-0-0]								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.00	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.01	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix	k-R	Wind(LL)	0.00	2-4	>999	240	Weight: 12 lb	FT = 10%

LUMBER-

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing

WEDGE Left: 2x3 SPF No.2

REACTIONS.

(size) 2=0-3-8, 6=Mechanical Max Horz 2=55(LC 5) Max Uplift 2=-72(LC 4), 6=-32(LC 8) Max Grav 2=250(LC 1), 6=132(LC 1)

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

NOTES-

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

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 3) 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 100 lb uplift at joint(s) 2, 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.

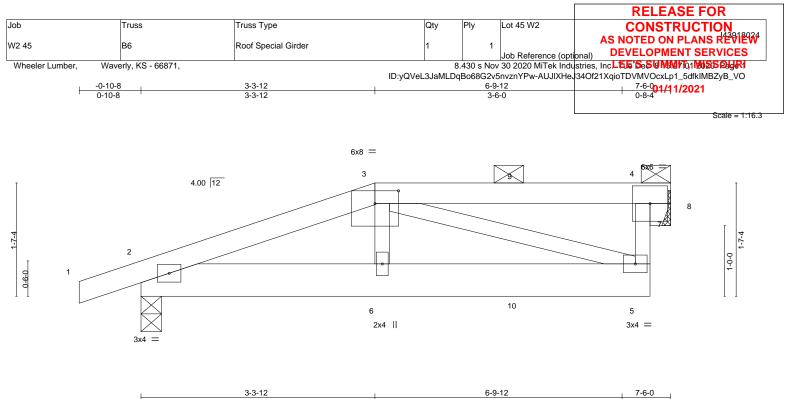


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OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) l/defl	L/d	PLATES (GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL) -0		5 >999	360	MT20 1	97/144
CDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0	0.02	6 >999	240		
SCLL 0.0 *	Rep Stress Incr NO	WB 0.30	Horz(CT) 0	0.01	8 n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0	0.01	5 >999	240	Weight: 28 lb	FT = 10%

 BOT CHORD
 2x6 SPF No.2

 WEBS
 2x3 SPF No.2

 OTHERS
 2x4 SPF No.2

 TOP CHORD
 Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-4.

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

REACTIONS. (size) 2=0-3-8, 8=Mechanical Max Horz 2=60(LC 4)

Max Uplift 2=-125(LC 4), 8=-76(LC 4) Max Grav 2=402(LC 1), 8=293(LC 1)

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

TOP CHORD 2-3=-508/117

BOT CHORD 2-6=-125/433, 5-6=-120/437

WEBS 3-5=-376/109, 4-8=-363/94

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

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

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=125.

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

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

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 123 lb down and 129 lb up at 3-3-12, and 57 lb down and 39 lb up at 5-4-8 on top chord, and 14 lb down and 6 lb up at 3-3-12, and 8 lb down at 5-4-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

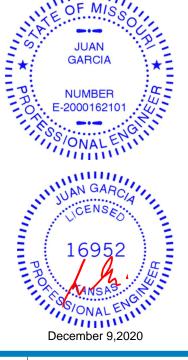
LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-70, 3-4=-70, 2-5=-20

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



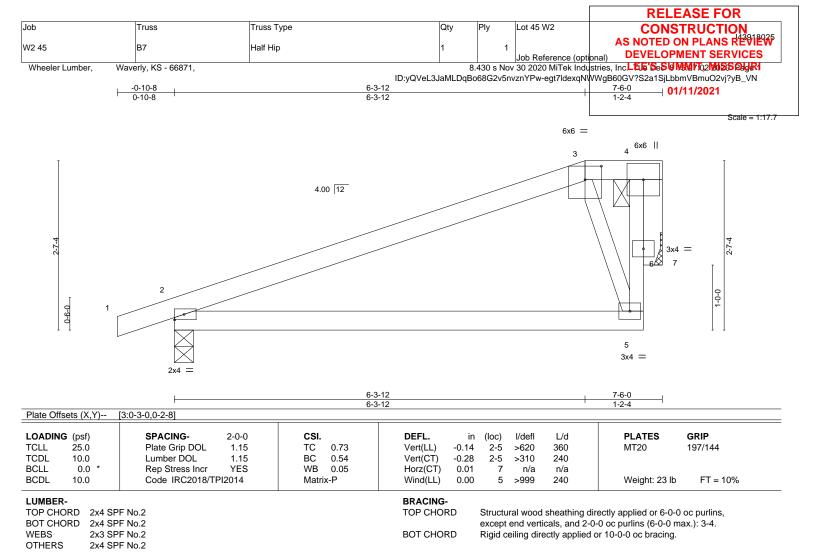
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						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 45 W2	CONSTRUCTION AS NOTED ON PLANS REVIEW
W2 45	B6	Roof Special Girder	1	1		AS NOTED ON PLANS REVIEW
112 10	50				Job Reference (option	
Wheeler Lumber, Way	verly, KS - 66871,		8.	430 s Nov	/ 30 2020 MiTek Indu	stries, Inc.LEE'SeSUMMTO,1MISS PLOR1
			ID:yQVeL3JaMLDq	Bo68G2v8	5nvznYPw-AUJIXHeJ	34Of21XqioTDVMVOcxLp1_5dfkIMBZyB_VO
						01/11/2021
LOAD CASE(S) Standard Concentrated Loads (Ib						

Concentrated Loads (lb) Vert: 6=6(B) 10=-3(B)





REACTIONS. (size) 2=0-3-8, 7=Mechanical Max Horz 2=81(LC 4) Max Uplift 2=-94(LC 4), 7=-67(LC 4)

Max Grav 2=404(LC 1), 7=294(LC 1)

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

 TOP CHORD
 5-6=-52/285, 4-6=-52/285

WEBS 4-7=-301/69

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

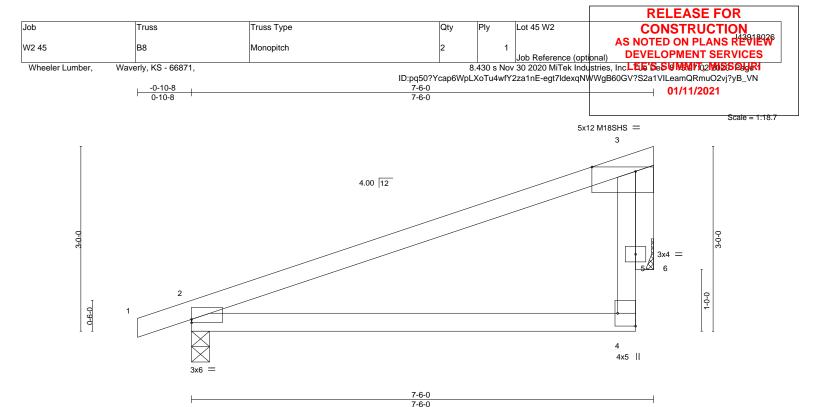
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

in (loc)

2-4

2-4

2-4

6

-0.05

-0.12

-0.01

0.04

l/defl

>999

>726

>999

except end verticals

n/a

L/d

360

240

n/a

240

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

OTHERS	2x4 SPF N	No.2	
REACTIONS.	(size)	2=0-3-8, 6=Mechanical	

2x4 SPF No.2

2x4 SPF No.2

(size) 2=0-3-8, 6=Mechanical Max Horz 2=91(LC 4) Max Uplift 2=-90(LC 4), 6=-71(LC 8) Max Grav 2=404(LC 1), 6=290(LC 1)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-315/23, 3-5=-285/223

[2:0-0-0,0-0-10], [3:0-8-8,Edge], [4:Edge,0-3-8]

2-0-0

1.15

1.15

YES

NOTES-

Plate Offsets (X,Y)--

25.0

10.0

0.0

TOP CHORD 2x4 SPF No.2

10.0

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

WEBS

LUMBER-

BOT CHORD

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

CSI.

тс

BC

WВ

Matrix-R

0.56

0.35

0.35

- 2) All plates are MT20 plates unless otherwise indicated.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 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.



PLATES

M18SHS

Weight: 23 lb

MT20

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

GRIP

197/144

197/144

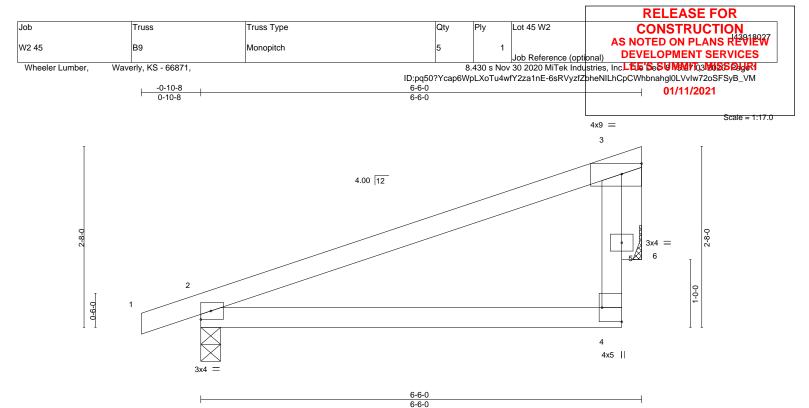
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FT = 10%





OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	(loc)	l/defl	L/d	PLATES GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.40	Vert(LL) -0.03	2-4	>999	360	MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.25	Vert(CT) -0.06	2-4	>999	240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.25	Horz(CT) -0.00	6	n/a	n/a	
3CDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.02	2-4	>999	240	Weight: 20 lb FT = 10%

TOP CHORD

BOT CHORD

TOP CHORD 2x4 SPF No.2 BOT CHORD WEBS

2x4 SPF No.2 2x4 SPF No.2 OTHERS 2x4 SPF No.2

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

Max Horz 2=78(LC 5) Max Uplift 2=-85(LC 4), 6=-60(LC 8) Max Grav 2=359(LC 1), 6=245(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-271/20

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.



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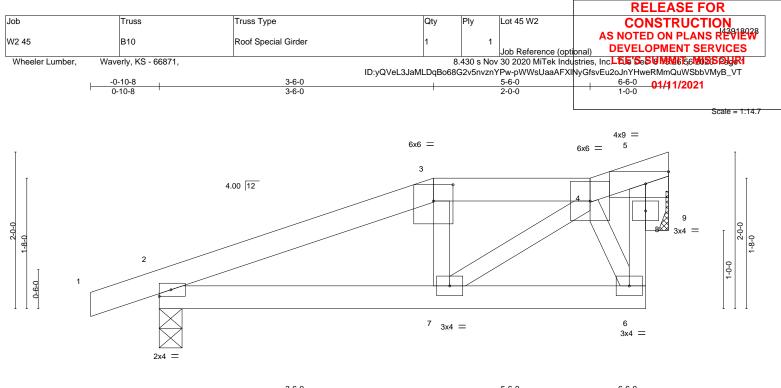
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Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.





				3-6-0			1		5-6-0		1 6-6-0	
				3-6-0			I		2-0-0		1-0-0	1
Plate Off	sets (X,Y)	[3:0-3-0,0-2-8], [5:Edge,0)-1-14]									
	G (nof)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
	u /						in	(/				
TCLL	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.01	2-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.01	2-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	k-P	Wind(LL)	0.00	7	>999	240	Weight: 21 lb	FT = 10%

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2
OTHERS	2x4 SPF No.2

BRACING-TOP CHORD

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

REACTIONS. (size) 2=0-3-8, 9=Mechanical Max Horz 2=60(LC 5) Max Uplift 2=-101(LC 4), 9=-62(LC 8)

Max Grav 2=357(LC 1), 9=246(LC 1)

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

TOP CHORD 2-3=-384/62, 3-4=-307/73, 6-8=-62/280, 5-8=-62/280

BOT CHORD 2-7=-71/311

WEBS 4-6=-284/77, 5-9=-265/69

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

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

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 2=101.

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

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

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 78 lb up at 3-6-0 on top chord, and 7 lb down and 5 lb up at 3-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

 Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-70, 3-4=-70, 4-5=-70, 2-6=-20

Continued on page 2

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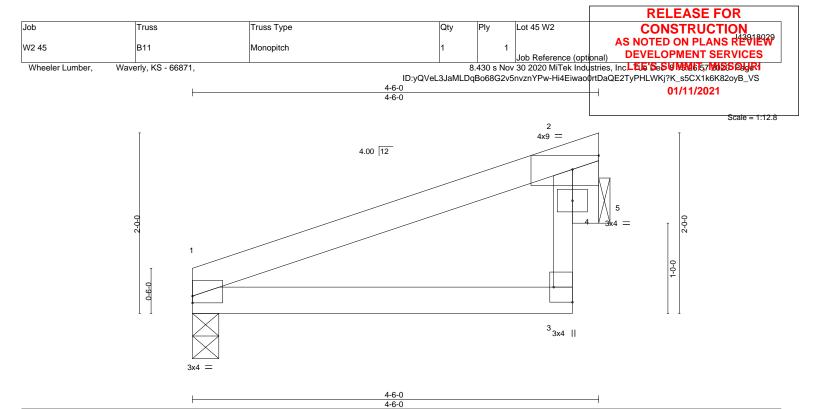
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						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 45 W2	CONSTRUCTION AS NOTED ON PLANS REVIEW
W2 45	B10	Roof Special Girder	1		1	AS NOTED ON PLANS REVIEW
112 40	510				Job Reference (option	
Wheeler Lumber, Wa	averly, KS - 66871,		8	.430 s N	lov 30 2020 MiTek Indu	stries, IncLEE'SeSUMM65,6M02(SPage2
			ID:yQVeL3JaMLDqBo680	G2v5nvz	nYPw-pWWsUaaAFXI	lyGfsvEu2oJnYHweRMmQuWSbbVMyB_VT
						01/11/2021
LOAD CASE(S) Standa						

Concentrated Loads (lb) Vert: 7=5(F)





late Offsets (X,Y)	[1:0-0-0,0-0-14], [2:Edge,0-1-14], [3:Edge,0-1-14], [3:Edge,0-10-14], [3:Edge,0-1-14], [3:Edge,0-10-14], [3:Edge,0-10-14], [3:Edge,0-14], [3:Edge,0-1	lge,0-2-8]							
OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.22	Vert(LL)	-0.01	1-3	>999	360	MT20	197/144
CDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT)	-0.02	1-3	>999	240		
CLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT)	0.00	5	n/a	n/a		
SCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.00	1-3	>999	240	Weight: 12 lb	FT = 10%
UMBER- OP CHORD 2x4 SP	F No.2		BRACING- TOP CHOR	D	Structu	ral wood	sheathing di	rectly applied or 4-6-0	oc purlins,

BOT CHORD

except end verticals.

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

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 OTHERS 2x4 SPF No.2

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

Max Horz 1=58(LC 5) Max Uplift 1=-26(LC 4), 5=-41(LC 8) Max Grav 1=192(LC 1), 5=164(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

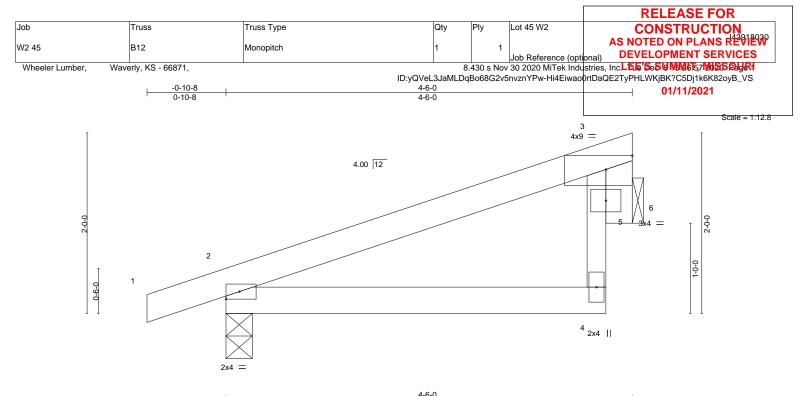


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					4-0-0						
	[2:Edge 0.4.44]				4-0-0						
IS (X, Y)	[3:Edge,0-1-14]		-								
(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
25.0	Plate Grip DOL	1.15	тс	0.20	Vert(LL)	-0.01	2-4	>999	360	MT20	197/144
10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	2-4	>999	240		
0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	6	n/a	n/a		
10.0	Code IRC2018/TF	912014	Matrix	(-R	Wind(LL)	0.00	2-4	>999	240	Weight: 13 lb	FT = 10%
()	(psf) 25.0 10.0 0.0 *	(psf) SPACING- 25.0 Plate Grip DOL 10.0 Lumber DOL 0.0 * Rep Stress Incr	(psf) SPACING- 2-0-0 25.0 Plate Grip DOL 1.15 10.0 Lumber DOL 1.15 0.0 * Rep Stress Incr YES	(psf) SPACING- 2-0-0 CSI. 25.0 Plate Grip DOL 1.15 TC 10.0 Lumber DOL 1.15 BC 0.0 * Rep Stress Incr YES WB	(psf) SPACING- 2-0-0 CSI. 25.0 Plate Grip DOL 1.15 TC 0.20 10.0 Lumber DOL 1.15 BC 0.11 0.0 * Rep Stress Incr YES WB 0.13	SPACING- 2-0-0 CSI. DEFL. 25.0 Plate Grip DOL 1.15 TC 0.20 Vert(LL) 10.0 Lumber DOL 1.15 BC 0.11 Vert(CT) 0.0 * Rep Stress Incr YES WB 0.13 Horz(CT)	s (X,Y) [3:Edge,0-1-14] (psf) SPACING- 25.0 2-0-0 CSI. DEFL. in 10.0 Lumber DOL 1.15 TC 0.20 Vert(LL) -0.01 0.0 * Rep Stress Incr YES WB 0.13 Horz(CT) 0.00	s (X,Y) [3:Edge,0-1-14] (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) 25.0 Plate Grip DOL 1.15 TC 0.20 Vert(LL) -0.01 2-4 0.0 Lumber DOL 1.15 BC 0.11 Vert(CT) -0.01 2-4 0.0 * Rep Stress Incr YES WB 0.13 Horz(CT) 0.00 6	s (X,Y) [3:Edge,0-1-14] (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl 25.0 Plate Grip DOL 1.15 TC 0.20 Vert(LL) -0.01 2-4 >999 0.0 * Rep Stress Incr YES WB 0.13 Horz(CT) 0.00 6 n/a	s (X,Y) [3:Edge,0-1-14] (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defi L/d 25.0 Plate Grip DOL 1.15 TC 0.20 Vert(LL) -0.01 2-4 >999 360 10.0 Lumber DOL 1.15 BC 0.11 Vert(CT) -0.01 2-4 >999 240 0.0 * Rep Stress Incr YES WB 0.13 Horz(CT) 0.00 6 n/a n/a	s (X,Y) [3:Edge,0-1-14] (psf) SPACING- 25.0 2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES 10.0 Lumber DOL 1.15 TC 0.20 Vert(LL) -0.01 2-4 >999 360 MT20 0.0 * Rep Stress Incr YES WB 0.13 Horz(CT) 0.00 6 n/a n/a

BRACING-

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 OTHERS 2x4 SPF No.2

TOP CHORD Structural wood sheathing directly applied or 4-6-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 2=60(LC 5) Max Uplift 2=-74(LC 4), 6=-38(LC 8) Max Grav 2=272(LC 1), 6=156(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.

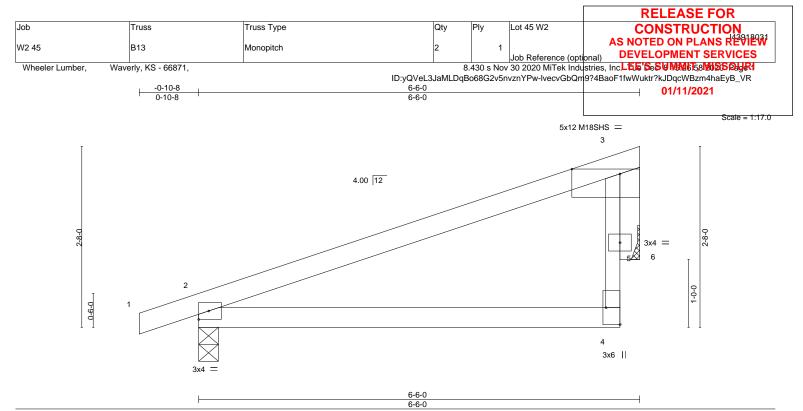


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OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ii	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.39	Vert(LL) -0.03	2-4	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.25	Vert(CT) -0.08	2-4	>990	240	M18SHS	197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.35	Horz(CT) -0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.02	2-4	>999	240	Weight: 19 lb	FT = 10%

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 OTHERS 2x4 SPF No.2

TOP CHORD except end verticals. BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 2=78(LC 5) Max Uplift 2=-85(LC 4), 6=-61(LC 8) Max Grav 2=360(LC 1), 6=248(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-258/20, 3-5=-273/175

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) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 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.



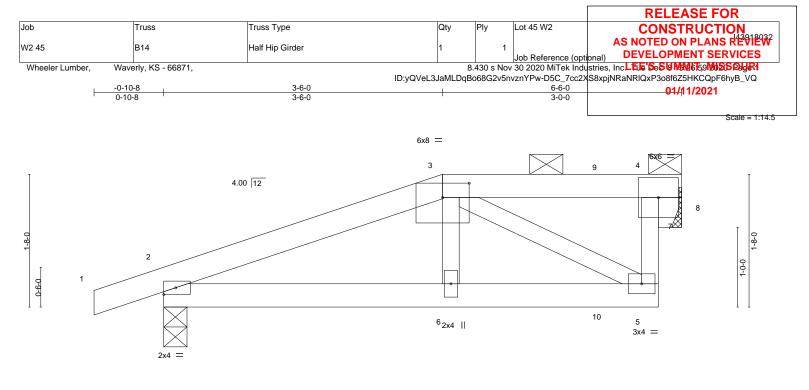
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		L		3-6-0						6-6-0		4
		1		3-6-0						3-0-0		1
Plate Offs	sets (X,Y)	[3:0-4-0,0-2-3]										
	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.01	2-6	>999	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.01	2-6	>999	240		
CLL	0.0 *	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	k-P	Wind(LL)	0.01	6	>999	240	Weight: 20 lb	FT = 10%

 LUMBER BRACING

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

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

 WEBS
 2x3 SPF No.2
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (size) 2=0-3-8, 8=Mechanical Max Horz 2=61(LC 4)

Max Uplift 2=-104(LC 4), 8=-70(LC 4) Max Grav 2=357(LC 1), 8=245(LC 1)

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

TOP CHORD 2-3=-383/76

BOT CHORD 2-6=-89/309, 5-6=-86/314

WEBS 3-5=-288/80, 4-8=-291/83

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

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

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

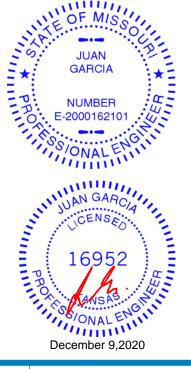
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=104.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 141 lb down and 115 lb up at 3-6-0, and 47 lb down and 35 lb up at 5-6-12 on top chord, and 15 lb down and 5 lb up at 3-6-0, and 8 lb down and 0 lb up at 5-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-4=-70, 2-5=-20

Continued on page 2

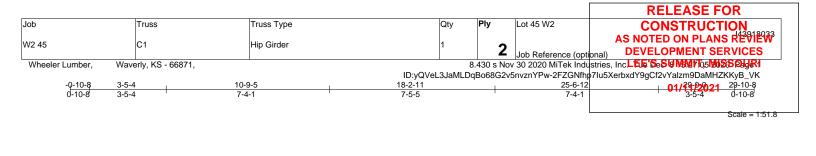


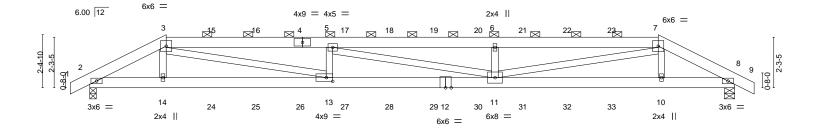


						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 45 W2	CONSTRUCTION AS NOTED ON PLANS REVIEW
W2 45	B14	Half Hip Girder	1	1		AS NOTED ON PLANS REVIEW
112 40					Job Reference (optic	
Wheeler Lumber, Wave	erly, KS - 66871,		8.	430 s Nov	30 2020 MiTek Indus	stries, IncLEE'SeSUMM659MISS PugPl
		ID:yQVeL3	JaMLDqB	068G2v5n	vznYPw-D5C_7cc2X	S8xpjNRaNRIQxP3o8f6Z5HKCQpF6hyB_VQ
LOAD CASE(S) Standard						01/11/2021
LOAD CASE(S) Standard						

Concentrated Loads (lb) Vert: 6=5(F) 10=0(F)







	3-5-4 <u>10-9-5</u> 3-5-4 7-4-1		18-2-11 7-5-5		25-6-12 7-4-1		<u>29-0-0</u> 3-5-4
	[13:0-3-8,0-2-0]		7-5-5		7-4-1		<u> </u>
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.35 BC 0.71 WB 0.42 Matrix-S	Vert(CT) -0 Horz(CT) 0	in (loc) l/def .24 11-13 >999 .45 11-13 >764 .05 8 n/a .23 11-13 >999	360 240 a n/a	PLATES MT20 Weight: 282 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x6 SP BOT CHORD 2x6 SP WEBS 2x4 SP	F No.2		BRACING- TOP CHORD BOT CHORD	2-0-0 oc purli	ns (6-0-0 max.): :	ectly applied or 6-0-0 3-7. r 10-0-0 oc bracing.	oc purlins, except
Max He Max U	e) 2=0-3-8, 8=0-5-8 brz 2=-37(LC 30) plift 2=-362(LC 5), 8=-364(LC 4) rav 2=1694(LC 1), 8=1702(LC 1)						
TOP CHORD 2-3=-3 BOT CHORD 2-14= WEBS 3-14=	Comp./Max. Ten All forces 250 (lb) or 3286/751, 3-5=-6097/1509, 5-6=-6074/ -655/2850, 13-14=-662/2831, 11-13=-1 -0/373, 3-13=-859/3379, 5-13=-631/334 -0/374	1503, 6-7=-6074/1503, 7- 481/6097, 10-11=-631/27	8=-3241/742 75, 8-10=-623/2795				
Top chords connecte Bottom chords connected	nected together with 10d (0.131"x3") na ad as follows: 2x6 - 2 rows staggered at ected as follows: 2x6 - 2 rows staggered follows: 2x4 - 1 row at 0-9-0 oc.	0-9-0 oc.				- 1.	MBER 00162101
ply connections have3) Unbalanced roof live	ered equally applied to all plies, except is been provided to distribute only loads loads have been considered for this de	noted as (F) or (B), unles sign.	s otherwise indicated			\$\$\$\$/0	NALENGII
MWFRS (envelope) grip DOL=1.60	ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right						A GAD
 6) This truss has been 7) * This truss has been will fit between the b 	ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t ottom chord and any other members. connection (by others) of truss to bearir	the bottom chord in all are	eas where a rectangle	3-6-0 tall by 2-0-0		T 1	ENSEO
referenced standard	d in accordance with the 2018 Internation ANSI/TPI 1. Desentation does not depict the size or					PRO	6952
						Decer	NAL ENGLIN

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/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[®]

December 9,2020

16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 45 W2	CONSTRUCTION
W2 45	C1	Hip Girder	1	_		AS NOTED ON PLANS REVIEW
					Job Reference (opt	
Wheeler Lumber,	Waverly, KS - 66871,		8	.430 s Nov	/ 30 2020 MiTek Indu	stries, Inc.LEE'SeSUMMITO5M02SPagR1

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NOTES-

01/11/2021
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 162 lb down and 138 lb up at 3-5-4, 78 lb down and 65 lb up at 5-6-0, 78 lb down and 65 lb up at 7-6-0, 78 lb down and 65 lb up at 9-6-0, 78 lb down and 65 lb up at 11-6-0, 78 lb down and 65 lb up at 13-6-0, 78 lb d 15-6-0, 78 lb down and 65 lb up at 17-6-0, 78 lb down and 65 lb up at 19-6-0, 78 lb down and 65 lb up at 21-6-0, and 78 lb down and 65 lb up at 23-6-0, and 162 lb down and 138 lb up at 25-6-12 on top chord, and 55 lb down at 3-5-4, 23 lb down at 5-6-0, 23 lb down at 7-6-0, 23 lb down at 9-6-0, 23 lb down at 11-6-0, 23 lb down at at 13-6-0, 23 lb down at 15-6-0, 23 lb down at 17-6-0, 23 lb down at 19-6-0, 23 lb down at 21-6-0, and 23 lb down at 23-6-0, and 55 lb down at 25-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

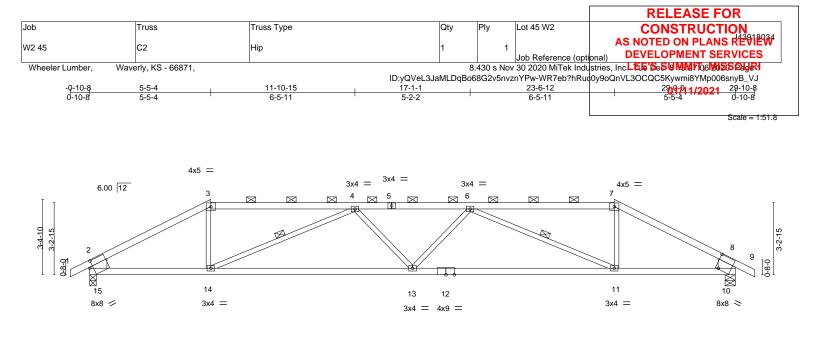
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-3=-70, 3-7=-70, 7-9=-70, 2-8=-20

Concentrated Loads (lb)

Vert: 3=-64(F) 4=-30(F) 14=-37(F) 7=-64(F) 10=-37(F) 15=-30(F) 16=-30(F) 17=-30(F) 18=-30(F) 19=-30(F) 20=-30(F) 21=-30(F) 22=-30(F) 23=-30(F) 24=-17(F) 25=-17(F) 26=-17(F) 27=-17(F) 28=-17(F) 29=-17(F) 30=-17(F) 31=-17(F) 32=-17(F) 33=-17(F)

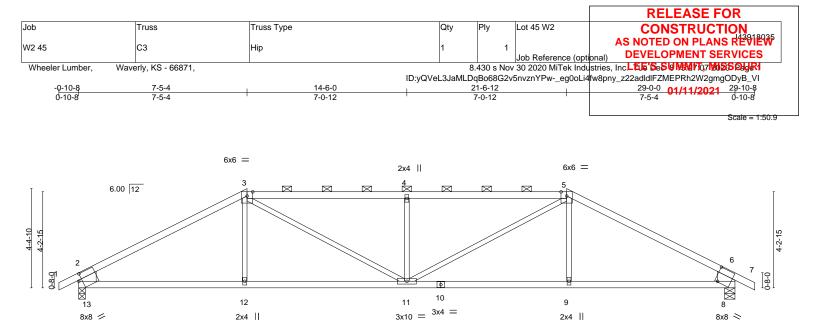




	5-5-4	14-6-0		23-6-12	29-0-0)	
Plate Offsets (X,Y)	<u>5-5-4</u> [10:0-1-8,0-7-10], [15:0-1-13,0-3-8]	9-0-12		9-0-12	5-5-4		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.88 BC 0.66 WB 0.73 Matrix-S	Vert(LL) -0.26 Vert(CT) -0.56 Horz(CT) 0.09	n (loc) l/defl L/d 11-13 >999 360 11-13 >601 240 10 n/a n/a 11-13 >999 240	PLATES MT20 Weight: 96 lb	GRIP 197/144 FT = 10%	
LUMBER- BRACING- TOP CHORD 2x4 SPF 2100F 1.8E *Except* TOP CHORD Structural wood sheathing directly applied or 3-3-12 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 3-7. BOT CHORD 2x4 SPF 2100F 1.8E BOT CHORD Rigid ceiling directly applied or 10-0 oc bracing. WEBS 2x3 SPF No.2 *Except* BOT CHORD WEBS 1 Row at midpt 2-15,8-10: 2x10 SP DSS 2x10 SP DSS Structural wood sheathing directly applied or 10-0.0 cc bracing.							
Max H Max U	e) 15=0-3-8, 10=0-5-8 orz 15=61(LC 7) plift 15=-158(LC 5), 10=-158(LC 4) rav 15=1359(LC 1), 10=1359(LC 1)				IN E OF	MISS	
TOP CHORD 2-3=-	Comp./Max. Ten All forces 250 (lb 2065/282, 3-4=-1719/267, 4-6=-307(1237/167, 8-10=-1237/167				- 0 - JI	UAN P	
BOT CHORD 14-15	5=-23/107, 0-10=-1237107 5=-231/1737, 13-14=-483/2974, 11-1 23/635, 4-14=-1437/321, 4-13=0/27				★ GA	RCIA *	
 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 3) Provide adequate dr 	e loads have been considered for this ult=115mph (3-second gust) Vasd=9 gable end zone; cantilever left and ri ainage to prevent water ponding.	1mph; TCDL=6.0psf; BCDL= ght exposed ; end vertical le	ft and right exposed; Lun			MBER 0162101	
5) * This truss has beer	designed for a 10.0 psf bottom choro n designed for a live load of 20.0psf o ottom chord and any other members	on the bottom chord in all are		6-0 tall by 2-0-0 wide			
	connection (by others) of truss to be		anding 100 lb uplift at joir	nt(s) except (jt=lb)	IN JUAN	GARCIA	
 This truss is designer referenced standard 					and the	ENSED	
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.							



Mitek* 16023 Swingley Ridge Rd Chesterfield, MO 63017



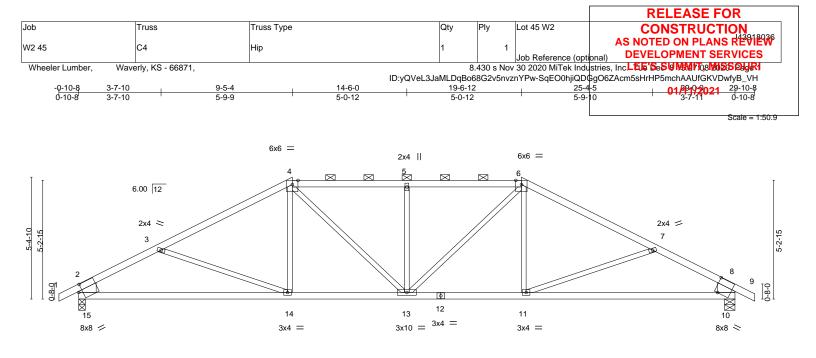
1	7-5-4	14-6-0		21-6-12	I	29-0-0	1
	7-5-4	7-0-12		7-0-12		7-5-4	1
Plate Offsets (X,Y)	[8:0-1-8,0-7-10], [13:0-1-13,0-3-8]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.92 BC 0.82 WB 0.33	DEFL. Vert(LL) -0. Vert(CT) -0. Horz(CT) 0.	41 9-11 >8 [.]	99 360	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		16 9-11 >99		Weight: 96 lb	FT = 10%
BOT CHORD 2x4 SP WEBS 2x3 SP	PF 2100F 1.8E PF No.2 PF No.2 *Except* -8: 2x10 SP DSS		BRACING- TOP CHORD BOT CHORD	2-0-0 oc pu	rlins (4-5-13 max.)	ectly applied, excep): 3-5. or 10-0-0 oc bracing.	t end verticals, and
Max H Max U Max G	e) 13=0-3-8, 8=0-5-8 lorz 13=-74(LC 6) lplift 13=-122(LC 8), 8=-122(LC 9) irav 13=1359(LC 1), 8=1359(LC 1)						F MISS
TOP CHORD 2-3=-	Comp./Max. Ten All forces 250 (lb) o -2022/233, 3-4=-2379/346, 4-5=-2379/3 -1255/170					ILA.	01
BOT CHORD 12-13	3=-184/1679, 11-12=-186/1677, 9-11=- =0/255, 3-11=-201/915, 4-11=-635/245,		5				
 Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 Provide adequate dr 4) This truss has been 5) * This truss has bee 	e loads have been considered for this d /ult=115mph (3-second gust) Vasd=91r gable end zone; cantilever left and righ rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on	nph; TCDL=6.0psf; BCDL= t exposed ; end vertical lef re load nonconcurrent with	t and right exposed; L any other live loads.	umber DOL=1.6	60 plate		MBER 00162101
	bottom chord and any other members. connection (by others) of truss to bearing	ng plate capable of withsta	nding 100 lb uplift at j	oint(s) except (j	t=lb)	1111	N GARCIN
	ed in accordance with the 2018 Internati	onal Residential Code sec	tions R502.11.1 and F	R802.10.2 and		1 20	ENO

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

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



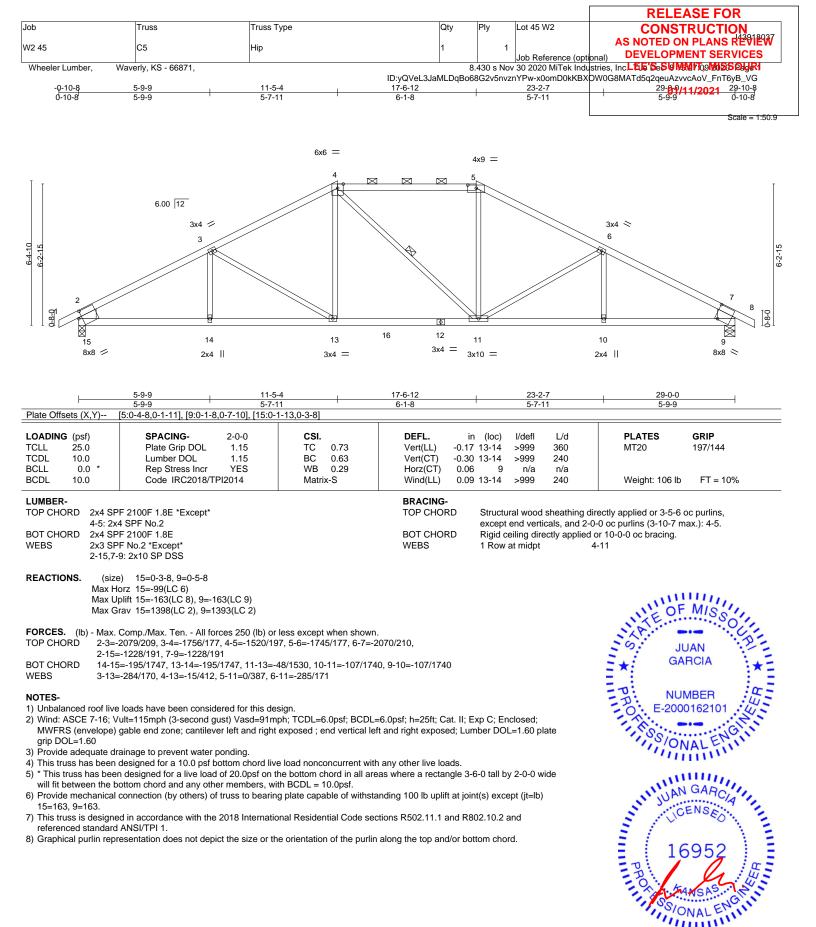
16023 Swingley Ridge Rd Chesterfield, MO 63017



I	9-5-4	14-6-0	19-6-12		29-0-0
Plate Offsets (X,Y)	9-5-4 [10:0-1-12,0-7-14], [15:0-2-1,0-3-12]	5-0-12	5-0-12	1	9-5-4
	[10.0-1-12,0-7-14], [13.0-2-1,0-3-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (lo		PLATES GRIP
TCLL 25.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.99 BC 0.69	Vert(LL) -0.17 10- Vert(CT) -0.35 10-		MT20 197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.25	- (-)	-11 >968 240 10 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.09 13-	-14 >999 240	Weight: 107 lb FT = 10%
4-6: 2x4 BOT CHORD 2x4 SP WEBS 2x3 SP	F 2100F 1.8E *Except* 4 SPF No.2 F No.2 F No.2 *Except* 10: 2x10 SP DSS		2-0	ructural wood sheathing dir 0-0 oc purlins (4-1-5 max.): gid ceiling directly applied c	
Max Ho Max Up	e) 15=0-3-8, 10=0-5-8 brz 15=-87(LC 6) blift 15=-144(LC 8), 10=-144(LC 9) rav 15=1359(LC 1), 10=1359(LC 1)				OF MISS
TOP CHORD 2-3=-	Comp./Max. Ten All forces 250 (lb) or 1961/238, 3-4=-1831/162, 4-5=-1834/21	3, 5-6=-1834/213, 6-7=-1			JUAN P
	1961/238, 2-15=-1256/191, 8-10=-1256 =-223/1609, 13-14=-110/1586, 11-13=-		٥		GARCIA
	0/293, 4-13=-134/456, 5-13=-414/169,	,			12 M 10 E
NOTES-					NUMBER #
	loads have been considered for this de	sian.			E-2000162101
2) Wind: ASCE 7-16; V	ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right	ph; TCDL=6.0psf; BCDL=			ASSIGNAL ENGLI
	ainage to prevent water ponding.				
	designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t			tall by 2-0-0 wide	
will fit between the be	ottom chord and any other members.		Ŭ		IN GAD
 Provide mechanical 15=144, 10=144. 	connection (by others) of truss to bearin	g plate capable of withsta	nding 100 lb uplift at joint(s)	except (jt=lb)	JUAN CARCIA
 This truss is designe referenced standard 	d in accordance with the 2018 Internation	onal Residential Code sec	tions R502.11.1 and R802.1	0.2 and	ICENSED
8) Graphical purlin repr	esentation does not depict the size or th	e orientation of the purlin	along the top and/or bottom	chord.	



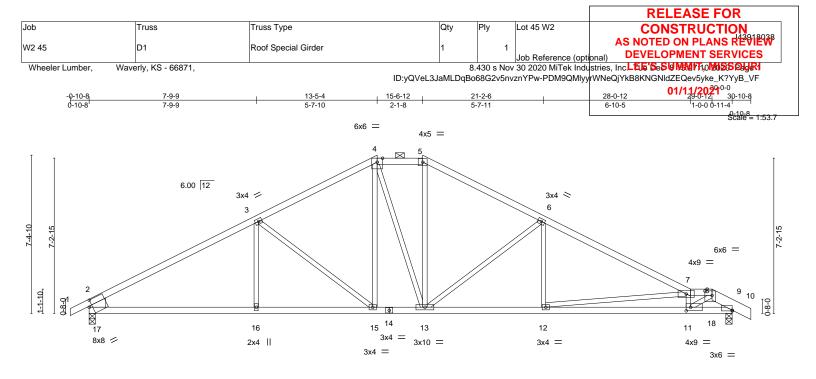




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F	7-9-9	13-5-4 5-7-10		<u>21-2-6</u> 5-7-11	1	<u>28-0-12</u> 6-10-5	30-0-0
Plate Offsets (X,Y)	[8:0-4-0,0-2-8], [9:0-0-0,0-0-7], [11:0-2-8			5-7-11		0-10-5	1-11-4
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.99 BC 0.93	Vert(LL) -0.1	n (loc) l/defl 7 15-16 >999 1 15-16 >999	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IRC2018/TPI2014	WB 0.89 Matrix-S	Horz(CT) 0.09 Wind(LL) 0.09	9 9 n/a 9 11-12 >999	n/a 240	Weight: 119 lb	FT = 10%
4-5,7-8 BOT CHORD 2x4 SP WEBS 2x3 SP	2F 2100F 1.8E *Except* :: 2x4 SPF No.2, 8-10: 2x6 SPF No.2 ?F No.2 ?F No.2 *Except* x10 SP DSS	1	BRACING- TOP CHORD BOT CHORD	except end ver	icals, and 2-0-	ectly applied or 2-4-4 c -0 oc purlins (3-4-15 m or 10-0-0 oc bracing.	
Max H Max U	e) 17=0-3-8, 9=0-3-8 orz 17=-121(LC 13) plift 17=-182(LC 8), 9=-188(LC 9) irav 17=1415(LC 1), 9=1396(LC 1)					NILE OF	MISS
TOP CHORD 2-3=- 7-8=- 7-8- BOT CHORD 16-17	Comp./Max. Ten All forces 250 (lb) or 2101/234, 3-4=-1639/216, 4-5=-1396/23 2783/353, 8-9=-1793/183, 2-17=-1305/2 7=-217/1740, 15-16=-217/1740, 13-15=- =-104/1264	34, 5-6=-1668/224, 6-7=-2 227	2291/269,				JAN RCIA
WEBS 3-15=	=-104/1284 =-487/201, 4-15=-79/386, 5-13=-56/476, =-666/166, 7-11=-1059/246, 8-11=-270/1		342,				MBER
2) Wind: ASCE 7-16; V	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right	ph; TCDL=6.0psf; BCDL=			late	0. E-2000	IAL ENGLIN
4) This truss has been5) * This truss has been will fit between the b	rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t ottom chord and any other members. connection (by others) of truss to bearin	he bottom chord in all are	eas where a rectangle 3	,		PR 16	GARCIA
 This truss is designer referenced standard Graphical purlin repr Hanger(s) or other c 29-0-12 on top chord the responsibility of a 	resentation does not depict the size or th connection device(s) shall be provided su d, and 3 lb down and 1 lb up at 29-0-12	ne orientation of the purlin ufficient to support concer on bottom chord. The de	a along the top and/or bo htrated load(s) 69 lb dow esign/selection of such o	ottom chord. /n and 12 lb up at		16 PROFILE	952
LOAD CASE(S) Stand							NAL ENTRY

LOAD CASE(S) Standard

Continued on page 2

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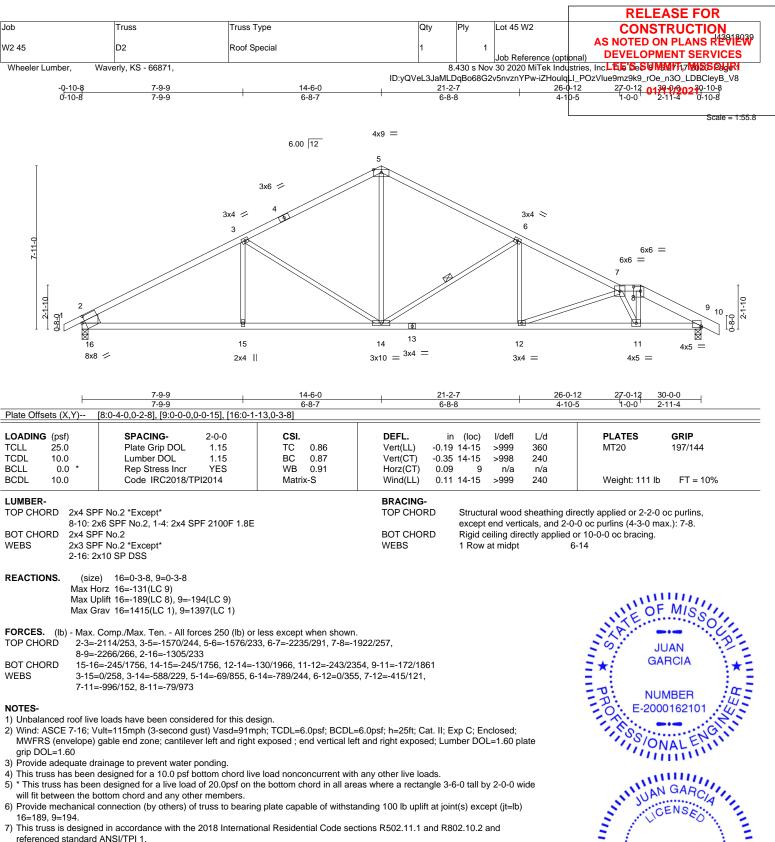
December 9,2020

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 45 W2	CONSTRUCTION AS NOTED ON PLANS REVIEW
W2 45	D1	Roof Special Girder	1		1	AS NOTED ON PLANS REVIEW
WZ 45			1		Job Reference (opt	
Wheeler Lumber, W	averly, KS - 66871,			8.430 s N	Nov 30 2020 MiTek Indu	stries, IncLEE'SeSUMMIThoMUSS PugPl
			ID:yQVeL3JaMLDqB	o68G2v5	5nvznYPw-PDM9QMlyy	rWNeQjYkB8KNGNIdZEQev5yke_K?YyB_VF
	1					01/11/2021
LOAD CASE(S) Standa						
 Dead + Roof Live (ba) 	ianced): Lumber Increas	se=1.15. Plate Increase=1.15				

Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 4-5=-70, 5-7=-70, 7-8=-70, 8-10=-70, 9-17=-20 Concentrated Loads (lb)

Vert: 18=1(F)

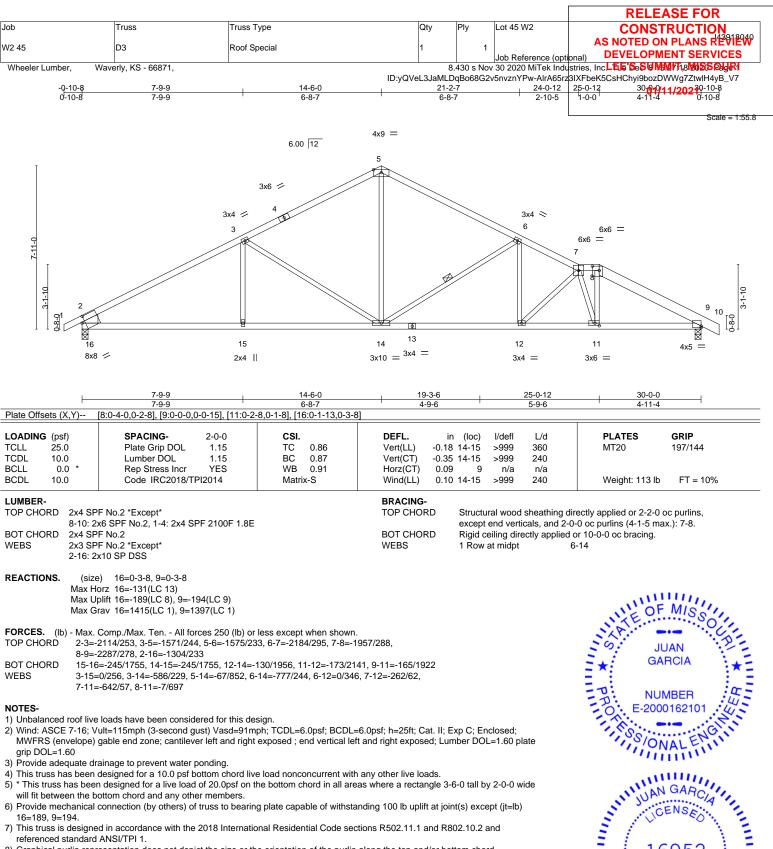




8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

16952 December 9,2020

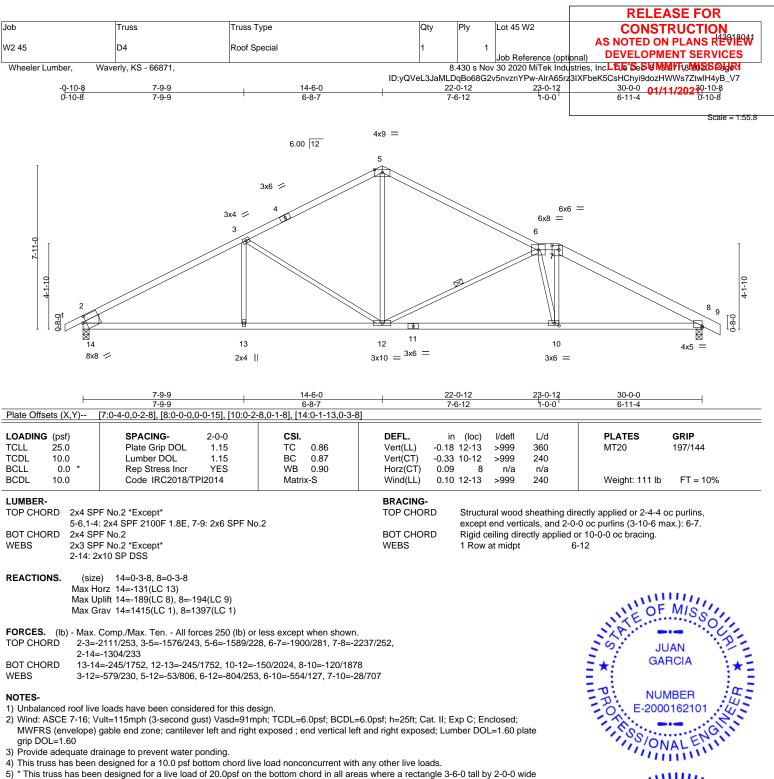
> 16023 Swingley Ridge Rd Chesterfield, MO 63017



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



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will fit between the bottom chord and any other members.

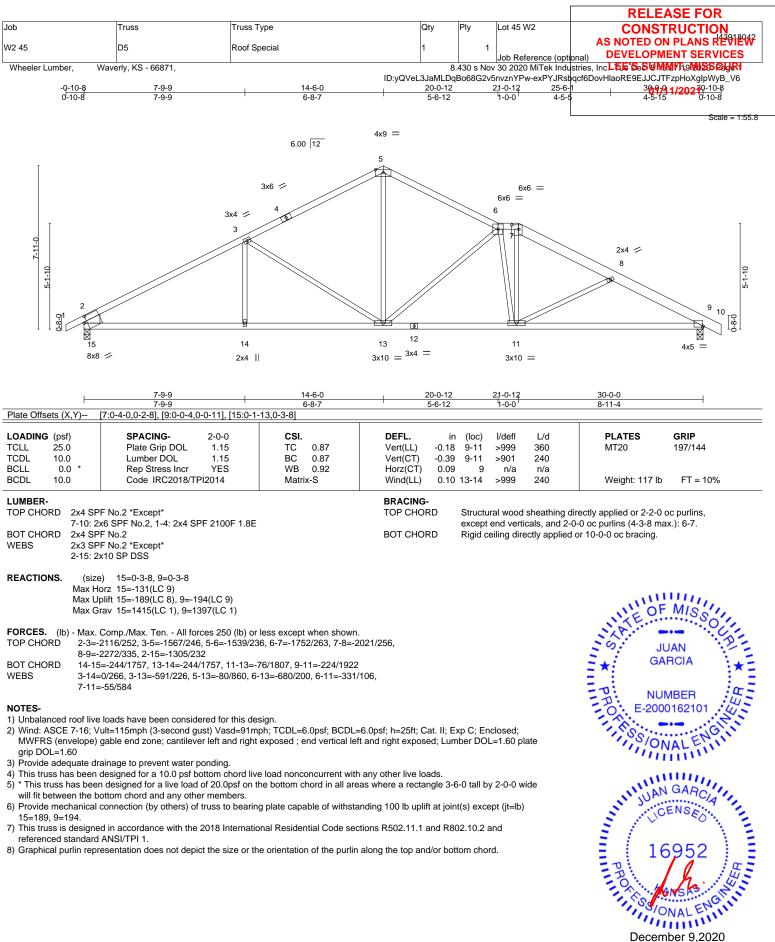
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=189, 8=194.

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

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



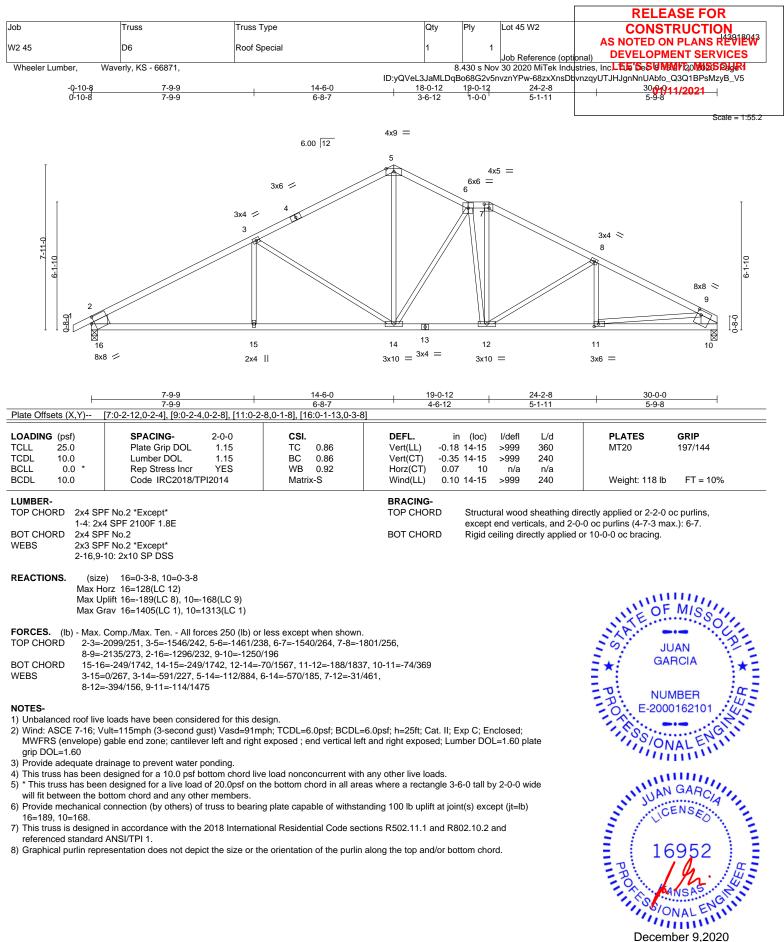
MITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017



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



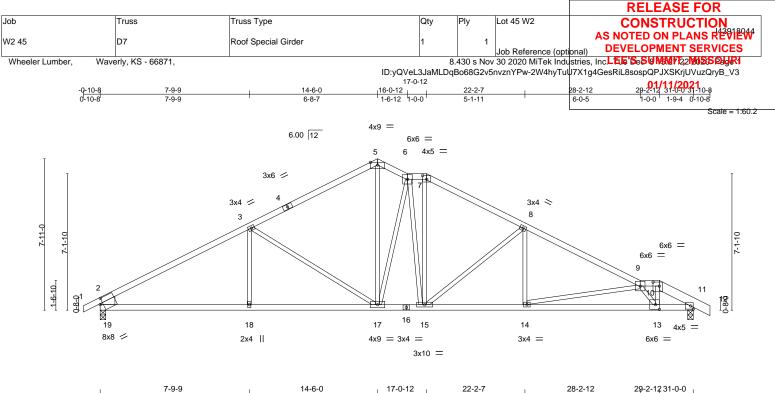
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8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



	7-9-9	14-6-0	17-0-12	22-2-7		2-12 29-2-123	
	7-9-9	6-8-7	2-6-12	5-1-11	<u> </u>	<u>0-5 1-0-0'</u>	1-9-4
Plate Offsets (X,Y)	[7:0-2-8,0-2-4], [10:0-4-0,0-2-8], [13:0-2	<u>-8,0-3-0], [19:0-1-13,0-3-8</u>	[]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.94	Vert(LL) -0.1	19 17-18 >999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.98	· · ·	37 17-18 >975	240	-	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.90	Horz(CT) 0.1		n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		11 17-18 >999	240	Weight: 128 lb	FT = 10%
BCDL 10.0	Code 11(C2018/1F12014	Matrix-3	WIND(LL) 0.	11 17-10 >999	240		FT = 1076
LUMBER-			BRACING-			-	
				0	I - I 41- !	and the second	
TOP CHORD 2x4 S		-	TOP CHORD			ectly applied, except e	end verticals, and
	2: 2x6 SPF No.2, 1-4: 2x4 SPF 2400F 2.0	E		2-0-0 oc purlins			
	SPF No.2		BOT CHORD	Rigid ceiling dir	ectly applied o	r 10-0-0 oc bracing.	
	SPF No.2 *Except*						
2-19:	2x10 SP DSS						
REACTIONS. (s	ize) 19=0-3-8, 11=0-3-8						
	Horz 19=-131(LC 13)						
	Uplift 19=-193(LC 8), 11=-211(LC 9)						1111.
	Grav 19=1460(LC 1), 11=1440(LC 1)					N'OF	MIS
Max						NE	Sol
FORCES (Ib) - Ma	x. Comp./Max. Ten All forces 250 (lb) o	less excent when shown				N. P	
	=-2204/259, 3-5=-1661/258, 5-6=-1502/2					201	
			105/209,			JL S	JAN
	=-2380/309, 9-10=-1821/221, 10-11=-218	,				GA GA	RCIA :1=
	19=-251/1833, 17-18=-251/1833, 15-17=	63/1508, 14-15=-149/205	8, 13-14=-326/2614,			- *:	:*=
	-13=-155/1718					1 1	
	8=0/267, 3-17=-579/225, 5-17=-143/926,					- U: NILIN	MBER :
8-1	5=-705/208, 8-14=0/350, 9-14=-568/181,	9-13=-1364/282, 10-13=-1	40/1185			- 2.	• 41-
						- O: E-2000	0162101
NOTES-						1000	. 7.
	ve loads have been considered for this de					1.000	G
2) Wind: ASCE 7-16;	Vult=115mph (3-second gust) Vasd=91n	nph; TCDL=6.0psf; BCDL=	6.0psf; h=25ft; Cat. II;	Exp C; Enclosed;		1.0/01	INTERN
MWFRS (envelop	e) gable end zone; cantilever left and righ	t exposed ; end vertical lef	t and right exposed; L	umber DOL=1.60 p	late	1111	ALLIN
grip DOL=1.60			. . /				1005
	drainage to prevent water ponding.						111
	en designed for a 10.0 psf bottom chord liv	e load nonconcurrent with	any other live loads				
	een designed for a live load of 20.0psf on			3-6-0 tall by 2-0-0 v	vide	THE TE	GARC
	bottom chord and any other members.		as more a restargies	5 5 5 tuli by 2 0 0 1		N 30	A 1
	al connection (by others) of truss to bearing	a plata capable of withoto	nding 100 lb unlift of i	hint(c) avaant (it lb	`	S (C	ENSE
,	a connection (by others) of truss to beam	ig plate capable of withsta	nuing 100 ib upilit at jo	onn(s) except (Jt=ID)		
19=193, 11=211.	nod in accordance with the 2010 laters of	anal Desidential Carls	tions DE00 44 4	000 10 0 and		2 1	1 2
	ned in accordance with the 2018 Internati	onal Residential Code sec	tions R502.11.1 and F	(802.10.2 and			
referenced standa						= : 16	5952 i E
	presentation does not depict the size or t					- 11	1. im=
	r connection device(s) shall be provided s					ER	9 142
29-2-12 on top ch	ord, and 4 lb down and 3 lb up at 29-2-12	on bottom chord. The de	sign/selection of such	connection device	(s) is	-0.	12:145
the responsibility of	of others.					1 A	INSA?
	SE(S) section, loads applied to the face of	the truss are noted as from	nt (F) or back (B).			1.00	
,	(, ,		· · · · · · · · · · · · · · · · · · ·			1,00	NALE
LOAD CASE(S) Sta	andard						IIIIII.
						Decem	

Continued on page 2

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December 9,2020

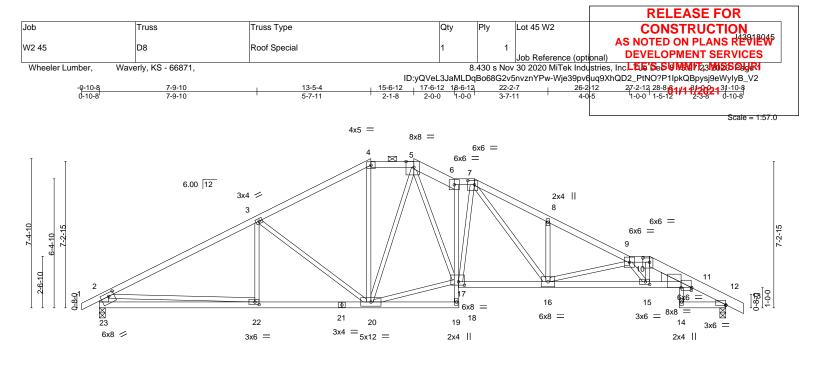


						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 45 W2	CONSTRUCTION AS NOTED ON PLANS REVIEW
W2 45	D7	Roof Special Girder	1	1		
					Job Reference (opti	
Wheeler Lumber, Wav	erly, KS - 66871,		8.	430 s Nov	30 2020 MiTek Indu	stries, Inc.LEE'SeSUMM1722MISS Puger
		ID:yQVeL	.3JaMLDql	Bo68G2v5	nvznYPw-2W4hyTul	J7X1g4GesRiL8sospQPJXSKrjUVuzQryB_V3
						01/11/2021
 LOAD CASE(S) Standard Dead + Roof Live (balard) 	iced): Lumber Increase=1.15	, Plate Increase=1.15				

Uniform Loads (plf) Vert: 1-2=-70, 2-5=-70, 5-6=-70, 6-7=-70, 7-9=-70, 9-10=-70, 10-12=-70, 11-19=-20 Concentrated Loads (lb)

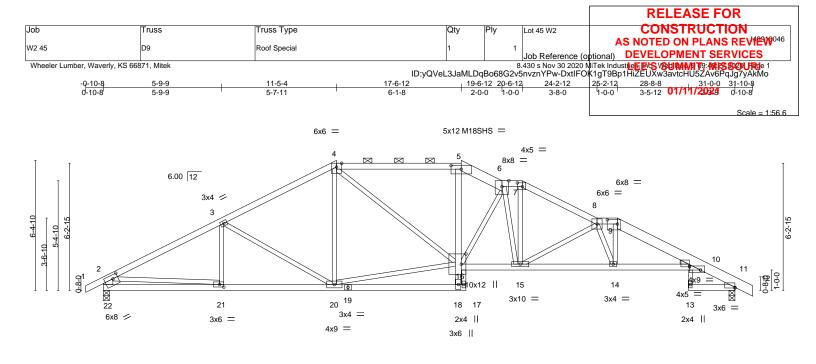
Vert: 13=2(F)





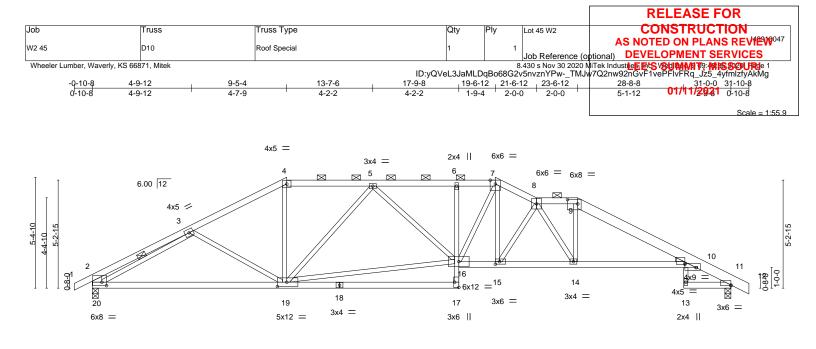
	 	7-9-10		13-5-4	15-6-12 17-9-8		22-2-		26-2-12	2 27-2-12 28-8-8	31-0-0	
Plate Offsets		[5:0-4-10,Edge], [7:0-4-0, [23:0-3-4,0-2-0]	,0-2-8], [10:0-4		0], [11:0-6-4,0-0-0]	, [12:0					-8,0-1-8],	
TCDL 1 BCLL	(psf) 25.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES Pl2014	CSI. TC 0.74 BC 0.68 WB 0.78 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.26	16-17 12	l/defl >999 >787 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 145 lb	GRIP 197/144 FT = 10%	
WEBS WEDGE Right: 2x6 S	5-6: 2x6 D 2x4 SP 6-19: 2; 2x3 SP 2-23: 2; P No.2 S. (size			3E	BRACING- TOP CHOR BOT CHOR		except 9-10. Rigid c 9-11-10 6-0-0 c	end vertio	als, and 2-0- ctly applied c ng: 22-23 12-14.	ectly applied or 2-11- 0 oc purlins (2-9-8 mi or 10-0-0 oc bracing,	ax.): 4-5, 6-7,	
REACTIONS. (size) 12=0-3-8, 23=0-3-8 Max Horz 23=-121(LC 13) Max Uplift 12=-192(LC 9), 23=-181(LC 8) Max Grav 12=0-3-8, 23=-181(LC 8) Max Uplift 12=-192(LC 1), 23=1457(LC 1) FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. JUAN TOP CHORD 2-3=-2268/239, 3-4=-1755/225, 4-5=-1492/224, 5-6=-2228/309, 6-7=-2012/258, 7-8=-3039/428, 8-9=-3010/331, 9-10=-3761/416, 10-11=-3824/404, 11-12=-806/128, 2-23=-1380/225 NUMBER BOT CHORD 22-23=-342/886, 20-22=-220/1916, 6-17=-846/139, 16-17=-48/1994, 15-16=-401/4248, 11-15=-314/3687 NUMBER WEBS 3-20=-567/201, 4-20=-57/499, 5-20=-554/88, 17-20=-45/1582, 5-17=-172/1219, 7-17=-31/258, 9-16=-1663/261, 9-15=-855/142, 10-15=-65/734, 2-22=0/1032, 8-16=-318/172, 7-16=-228/1145 NUMBER												
 2) Wind: AS MWFRS (grip DOL= 3) Provide a 4) This truss 5) * This trus will fit bett 6) Provide m 12=192, 2 7) This truss reference 	CE 7-16; V (envelope) = =1.60 dequate dra s has been o ss has been o ss has been ween the bo nechanical o 22=181. s is designe of standard	loads have been conside ult=115mph (3-second gu gable end zone; cantileve ainage to prevent water p designed for a 10.0 psf b n designed for a live load ottom chord and any othe connection (by others) of d in accordance with the ANSI/TPI 1. esentation does not depi	ust) Vasd=91m er left and right bonding. ottom chord liv, of 20.0psf on t er members. truss to bearin 2018 Internatio	ph; TCDL=6.0psf; BCDL exposed ; end vertical le e load nonconcurrent with he bottom chord in all are g plate capable of withsta onal Residential Code sec	ff and right expose h any other live loa eas where a rectan anding 100 lb uplift ctions R502.11.1 a	d; Lun ds. gle 3- at joir nd R8	nber DO 6-0 tall b nt(s) exce 02.10.2 a	L=1.60 pla y 2-0-0 wi ept (jt=lb) and		PROFILE	GARCIA ENSED 5952 ANGAE OF NALENO	
WAR	NING - Verify c	lesign parameters and READ NC	DTES ON THIS AND	INCLUDED MITEK REFERENCE	CE PAGE MII-7473 rev. 5	5/19/202	0 BEFORE	USE.				

Mitek* 16023 Swingley Ridge Rd Chesterfield, MO 63017



⊢	<u>5-9-9</u> 11-5 5-9-9 5-7-			<u>-6-12 20-6-12 24-2-</u> -9-4 1-0-0 3-8-		31-0-0
Plate Offsets (X,Y)	[5:0-6-0,0-2-3], [7:0-3-0,0-2-4], [9:0-6-0,	0-2-8], [10:0-6-8,0-2-6], [1	0:0-6-8,0-1-14], [11:0-0			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.75 BC 0.67 WB 0.50 Matrix-S	DEFL. i Vert(LL) -0.2 Vert(CT) -0.4 Horz(CT) 0.2 Wind(LL) 0.1	3 15 >999 3 1 15 >889 3 9 11 n/a	L/d PLATES 360 MT20 240 M18SHS n/a 240 Weight: 141 lb	GRIP 197/144 197/144 FT = 10%
BOT CHORD 2x4 Si 10-16 WEBS 2x3 Si 2-22: 2 WEDGE Right: 2x3 SPF No.2	x6 SPF No.2, 9-12: 2x6 SP 2400F 2.0E PF No.2 *Except* : 2x4 SPF 2100F 1.8E PF No.2 *Except* 2x6 SPF No.2		BRACING- TOP CHORD BOT CHORD	end verticals, and	eathing directly applied or 3-4-2 o 2-0-0 oc purlins (2-10-8 max.): 4-5 ly applied or 10-0-0 oc bracing, E 1-13.	5, 6-7, 8-9.
Max H Max I Max I FORCES. (Ib) - Max TOP CHORD 2-3= 7-8= BOT CHORD 21-2 14-1 WEBS 3-20 7-15 16-1 NOTES- 1) Unbalanced roof liv	 t1=1462/0-3-8, 22=1458/0-3-8 Horz 22=-103(LC 9) Jplift 11=-177(LC 9), 22=-163(LC 8) Comp./Max. Ten All forces 250 (lb) or c-2302/220, 3-4=-1936/184, 4-5=-2092/22 c-2620/254, 8-9=-3029/319, 9-10=-3221/3 c2=-191/570, 20-21=-213/1975, 16-18=0/4 5=-201/3175, 10-14=-181/2989 -396/177, 16-20=-89/1454, 4-16=-80/64 5=-10/771, 8-15=-1006/184, 8-14=-437/67 r7=-270/0 re loads have been considered for this de Vult=115mph (3-second gust) Vasd=91m 	16, 5-6=-2271/225, 6-7=-2; 102, 10-11=-806/119, 2-22 122, 5-16=-12/491, 15-16= 19, 6-16=-598/135, 6-15=-7 7, 9-14=-1/530, 2-21=-22/1 sign.	333/257, =-1393/194 35/2367, 251/67, 410,	Exp C; Enclosed;	PROFILE GARG PROFILE E-20001	CIA *
 MWFRS (envelope grip DOL=1.60 3) Provide adequate c 4) All plates are MT20 5) This truss has beer 6) * This truss has beer will fit between the 7) Provide mechanica joint 22. 8) This truss is design standard ANSI/TPI) gable end zone; cantilever left and right drainage to prevent water ponding. o plates unless otherwise indicated. In designed for a 10.0 psf bottom chord live en designed for a live load of 20.0psf on t bottom chord and any other members. I connection (by others) of truss to bearin the in accordance with the 2018 Internation	exposed ; end vertical left e load nonconcurrent with he bottom chord in all area g plate capable of withstar onal Residential Code sect	t and right exposed; Lur any other live loads. as where a rectangle 3- nding 177 lb uplift at join tions R502.11.1 and R8	nber DOL=1.60 plate 6-0 tall by 2-0-0 wide nt 11 and 163 lb uplift 02.10.2 and referenc	at 160 ed 160	ALENGINE





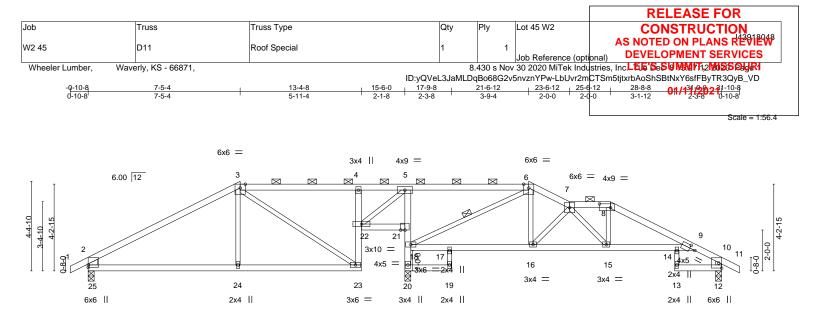
	9-5-4	17-9-8	, 1	19-6-12 _ 21-6-1	2 23-6-12	28-8-8	31-0-0
	9-5-4	8-4-4	1	1-9-4 2-0-0		5-1-12	2-3-8
Plate Offsets (X,Y)	[9:0-6-0,0-2-8], [10:0-6-8,0-2-6], [10:0-6-	8,0-1-14], [11:0-0-0,0-0-7]], [15:0-2-8,0-1-8], [1	17:Edge,0-2-8],	[19:0-5-8,0-2-8], [20):0-2-12,0-2-0]	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	CSI. TC 0.78 BC 0.80 WB 0.89	Vert(CT) -(Horz(CT) (0.27 10-14 ====================================	l/defl L/d >999 360 >722 240 n/a n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) (0.18 10-14 >	>999 240	Weight: 136 lb	FT = 10%
9-12: 2 BOT CHORD 2x4 SF 6-17: 2 WEBS 2x3 SF	PF No.2 *Except* x6 SP 2400F 2.0E PF No.2 *Except* x3 SPF No.2, 10-16: 2x4 SPF 2100F 1.8 PF No.2 *Except* x6 SPF No.2	E	BRACING- TOP CHORD BOT CHORD WEBS	end vertio Rigid ceil	cals, and 2-0-0 oc pu ling directly applied o bracing: 11-13.	ectly applied or 3-3-3 Irlins (3-0-11 max.): 4- or 10-0-0 oc bracing, -20	7, 8-9.
Right: 2x3 SPF No.2							
Max H Max U	e) 11=1461/0-3-8, 20=1456/0-3-8 lorz 20=-86(LC 13) plift 11=-159(LC 9), 20=-143(LC 8)	loss sysset when shows				NATE OF	MISSO
TOP CHORD 2-3=-	Comp./Max. Ten All forces 250 (lb) or 715/81, 3-4=-2083/194, 4-5=-1804/191, 1 2721/237, 8-9=-2649/250, 9-10=-2894/2	5-6=-2582/258, 6-7=-2594				GAF	
BOT CHORD 19-20 WEBS 4-19=)=-208/1926, 6-16=-285/100, 15-16=-150 =0/600, 5-19=-843/181, 16-19=-226/2094 =-83/742, 8-15=-783/143, 8-14=-476/120	/2443, 14-15=-160/2872, , 5-16=-33/429, 7-16=-10	10-14=-96/2625 4/453,			PD NUM 0 E-2000	• []].
NOTES-						10.	
 Unbalanced roof live Wind: ASCE 7-16; W MWFRS (envelope) 	e loads have been considered for this des /ult=115mph (3-second gust) Vasd=91mp gable end zone; cantilever left and right	oh; TCDL=6.0psf; BCDL=				SS/ON	ALENII
grip DOL=1.60							um.
	rainage to prevent water ponding.						GAD
5) * This truss has bee	designed for a 10.0 psf bottom chord live n designed for a live load of 20.0psf on th				-0-0 wide	UCE 16	NSA
6) Provide mechanical	oottom chord and any other members. connection (by others) of truss to bearing	g plate capable of withstar	nding 159 lb uplift at	joint 11 and 14	13 lb uplift at	3 / 100	0
joint 20. 7) This truss is designe	ed in accordance with the 2018 Internatio	nal Residential Code sect	ions R502.11.1 and	R802.10.2 and	d referenced	16	952

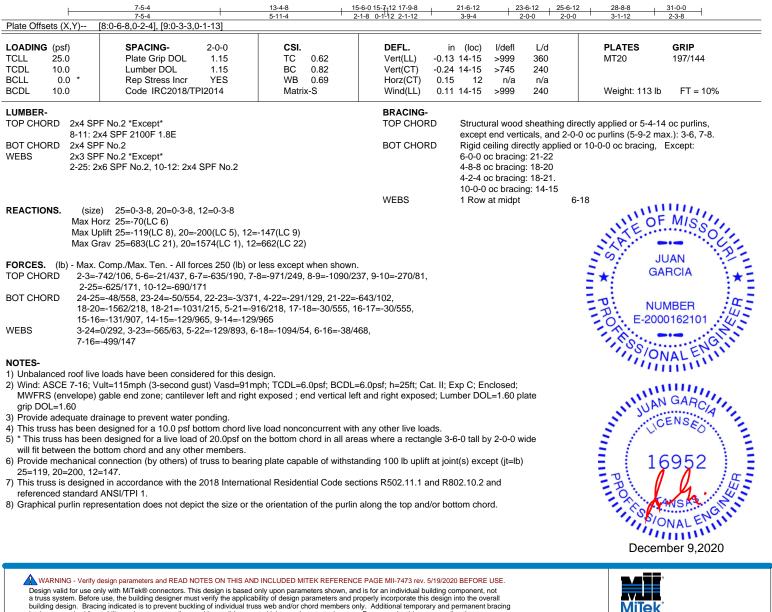
standard ANSI/TPI 1.

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



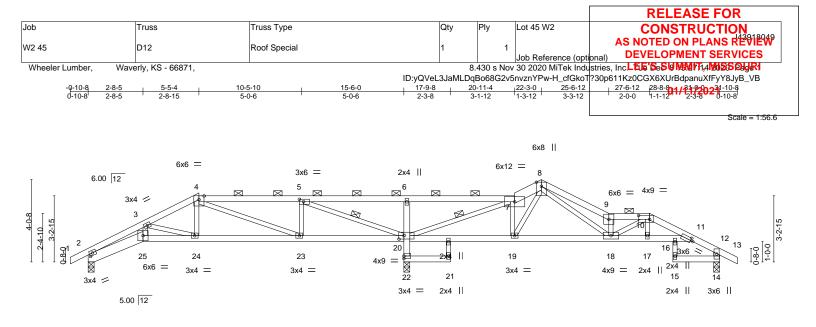
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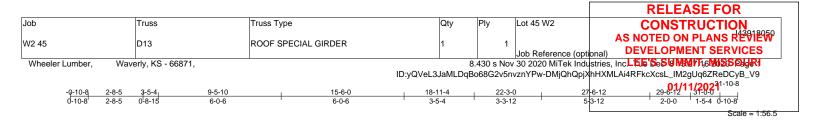
16023 Swingley Ridge Rd Chesterfield, MO 63017

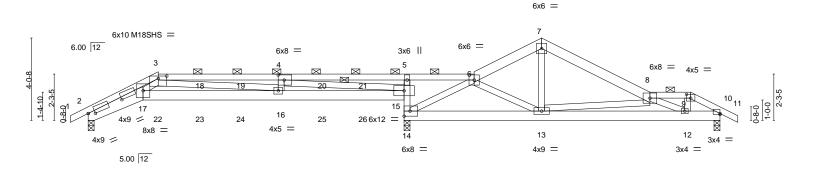
besign value to be only with with ever connectors. This besign is based only upon parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is 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



H	2-8-5 2-8-5	5-5-4 2-8-15	-	10-5-10 5-0-6		15-6-0 5-0-6	15-7 ₁ 12 17-9-8 0-1-12 2-1-12	20-11-4		25-6-12 4-7-8			31-0-0 2-3-8	
Plate Offsets (X,Y	/) [2:0)-1-13,0-1-8], [5:	0-2-8,0	-1-8], [10:0-6·	-8,0-2-4], [1′	:0-1-7,0-1-8	3], [20:0-3-0,0-2-0]							
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	*	SPACING- Plate Grip D Lumber DOL Rep Stress I Code IRC20	- ncr	2-0-0 1.15 1.15 YES 2014	CSI. TC BC WB Matri	0.78 0.77 0.58 <-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)		9 >999	L/d 360 240 n/a 240	PLATE MT20 Weight:		GRIP 197/144 FT =	
BCDL 10.0 LUMBER- TOP CHORD 2: TOP CHORD 2: WEBS 2: WEBS 2: REACTIONS. FORCES. (Ib) - TOP CHORD BOT CHORD BOT CHORD WEBS NOTES- 1) Unbalanced ro 2) Wind: ASCE 7- MWFRS (enve grip DOL=1.60 3) Provide adequa 4) This truss has las vill fit between 6) Bearing at joint capacity of bea 7) Provide mecha 2=129, 22=233 8) This truss is de referenced stat	x4 SPF N -8: 2x6 S x4 SPF N -25: 2x6 (x3 SPF N 2-14: 2x4 (size) Max Horz Max Uplift Max Grav Max. Col 2-3=-176 8-9=-134 2-25=-37 6-20=-41 3-25=-10 5-20=-41 3-41 3-25=-10 5-20=-41 3-41 3-41 3-41 3-41 3-41 3-41 3-41 3	Code IRC20 lo.2 *Except* PF No.2 lo.2 *Except* SPF No.2 lo.2 *Except* SPF No.2 2=0-3-8, 22=0-2=61(LC 12) 2=-129(LC 8), 2 2=615(LC 21), mp./Max. Ten 37/393, 3-4=-953 13/280, 9-10=-11 2/1550, 24-25=- 17/163, 18-19=0/ 17/679, 3-24=-53 327/295, 7-20=-1 22/192 ads have been c c115mph (3-seccord) ads have been c c115mph (3-seccord) ads have been c alge to prevent w signed for a 10.0 signed for a 10.0 sign	3-8, 14= 22=-233 22=183 All force 3/220, 4 105/194 -326/13 /297, 17 31/177, 1 767/12 onsider ond gus ntilever vater po psf bot e load o by other o grain v ers) of tr th the 20	=0-3-8 3(LC 8), 14=- 22(LC 1), 14= es 250 (lb) or -5=-483/169, , 10-11=-114; 57, 23-24=-1; 7-18=-120/100 4-24=-4/272, 9, 7-19=0/35; ed for this de et) Vasd=91m left and right inding. tom chord livit f 20.0psf on t russ to bearin 018 Internation	Matri 113(LC 9) 552(LC 1) less except 5-6=-109/14 5/196, 12-14 4-23=-517/5 3, 8-19=-263 sign. ph; TCDL=6 exposed ; e e load noncc he bottom cl NSI/TPI 1 al g plate capa onal Resider	when show 185, 6-7=-11 19-572/132 19-1041, 11 15, 5-23=0/3 148, 8-18=-2 .0psf; BCDI nd vertical le phore the optimum of the optimum angle to grain ble of withs tial Code se	Wind(LL) BRACING- TOP CHOR BOT CHOR WEBS wEBS n. 6/1454, , 20-22=-1789/259, I-16=-119/1041	0.08 1 D Stru exce D Rigio 6-0-1 4-3- 10-0 1 Ro 1 Ro 4.3- 10-0 1 Ro 4.5- 10-0 1 Ro 4.5- 10-0 1 Ro 4.5- 10-0 1 Ro 4.5- 10-0	18 >999 Inctural wood ept end vert d ceiling dir 0 oc bracing 0 oc bracing 0 oc bracing 0-0 oc bracing ow at midpt Dolo co bracing 0 oc bracing Double to bracing 0 oc bracing </td <td>240 I sheathing o icals, and 2- ectly applied g: 20-23 ng: 20-22. ng: 16-17</td> <td>tirectly applied o 0-0 oc purlins (5 1 or 10-0-0 oc br 5-20, 7-20</td> <td>or 4-2-12 -7-0 ma acing, I OF JL GA NUN E-2000</td> <td>oc purlin x.): 4-7, 9</td> <td>s, 10.</td>	240 I sheathing o icals, and 2- ectly applied g: 20-23 ng: 20-22. ng: 16-17	tirectly applied o 0-0 oc purlins (5 1 or 10-0-0 oc br 5-20, 7-20	or 4-2-12 -7-0 ma acing, I OF JL GA NUN E-2000	oc purlin x.): 4-7, 9	s, 10.







	2-8-5	3-5-4	9-5-10	15-6-0	15-7 ₁ 12 18-11-4		22-3-0		27-6-12	29-6-12	31-0-0 J
	2-8-5		6-0-6	6-0-6	0-1-12 3-3-8	1	3-3-12		5-3-12	2-0-0	1-5-4
Plate Offsets ((X,Y) [2	2:1-9-6,0-0-2], [2:0-	3-15,0-1-8], [3:0-5-0	<u>,0-1-7], [4:0-3-8,0-3-0], [</u>	<u>9:0-2-8,0-2-4], [10:0</u>	-0-0,0)-0-9]				
LOADING (ps	sf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc) l/d	defl L/d		PLATES	GRIP
TCLL 25	5.0	Plate Grip DC	DL 1.15	TC 0.66	Vert(LL)	-0.25	16-17 >	755 360		MT20	197/144
	0.0	Lumber DOL	1.15	BC 0.83	Vert(CT)	-0.47	16-17 >3	397 240		M18SHS	197/144
	0.0 *	Rep Stress Ir		WB 0.70	Horz(CT)	0.13		n/a n/a			
BCDL 10	0.0	Code IRC20	18/TPI2014	Matrix-S	Wind(LL)	0.25	16-17 >7	747 240		Weight: 144 lb	FT = 10%
LUMBER- TOP CHORD BOT CHORD	3-6: 2x4		6-7,7-8: 2x6 SPF Nc	.2	BRACING- TOP CHORE	D	except	wood sheathing urlins (3-11-8 m		pplied or 2-9-11 8-9.	oc purlins,
			4 SPF 2400F 2.0E		BOT CHORE)		ng directly appli) oc bracing.	
WEBS	2x4 SPF	No.2			WEBS		1 Row at n	nidpt	4-15		
	Max Hoi Max Upl Max Gra	w 2=819(LC 21), 1 omp./Max. Ten A	4=-375(LC 8), 10=- 14=1777(LC 1), 10= All forces 250 (lb) or	657(LC 1)						NATE OF	MISSOU
TOP CHORD		,	60/714, 4-5=-159/79 11, 9-10=-801/112	0, 5-6=-156/680, 6-7=-62	24/225,						JAN
BOT CHORD			689/2022, 15-16=-69 316/1306, 10-12=-59	97/2560, 14-15=-1212/34 9/611	6, 5-15=-535/233,				= 7	GA	RCIA *
WEBS	3-16=-	91/545, 4-15=-334	,	34, 6-13=-34/398, 7-13=	-66/262,					U •	MBER 44
NOTES-									-	A	. 2.
2) Wind: ASC	E 7-16; Vu envelope) g	lt=115mph (3-seco		sign. ph; TCDL=6.0psf; BCDL= exposed ; end vertical le						KSS/ON	VALENGII
 All plates a This truss h 	are MT20 pl has been d		vise indicated. psf bottom chord live	e load nonconcurrent with						16	GARCI
		designed for a live		he bottom chord in all are	eas where a rectang	gle 3-6	6-0 tall by 2-	0-0 wide		1	ENSED
	joint(s) 2 co	onsiders parallel to		NSI/TPI 1 angle to grain	formula. Building d	esigne	er should ve	erify			$\sim 10^{-1}$
	echanical c	onnection (by othe	rs) of truss to bearin	g plate capable of withsta	anding 100 lb uplift a	at join	t(s) except	(jt=lb)	-	16	5952 E
9) This truss is	is designed	in accordance with	n the 2018 Internatio	onal Residential Code sec	ctions R502.11.1 an	nd R80)2.10.2 and			PH	
referenced			t denict the size or t	the orientation of the purl	in along the top and	l/or bo	ottom chord			-	NSA

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

ANSAS CONAL EN December 9,2020

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Continued on page 2

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 45 W2	CONSTRUCTION
W2 45	D13	ROOF SPECIAL GIRDER	1	1		AS NOTED ON PLANS REVIEW
-					Job Reference (opti	
Wheeler Lumber, Wave	erly, KS - 66871,		8	.430 s Nov	30 2020 MiTek Indu	stries, IncLEE'SeSUMMITI,6MISSOUGRI
		ID:vQVeL	3JaMLDoB	068G2v5n	znYPw-DMiQhQpiX	hHXMLAi4RFkcXcsL IM2aUa6ZReDCvB V9

NOTES-

- NUTES-11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 160 lb down and 165 lb up at 3-5-4, 81 lb down and 67 lb up at 5-6-0, 04 lb down and 07 lb up at 3-5-4, 81 lb down and 67 lb up at 5-6-0,
 - 81 lb down and 67 lb up at 7-6-0, 81 lb down and 67 lb up at 9-6-0, 81 lb down and 67 lb up at 13-6-0, 81 lb down at 3-6-0, 81 lb down 11-6-0, 23 lb down at 13-6-0, and 23 lb down at 15-7-12, and 2 lb down and 1 lb up at 29-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

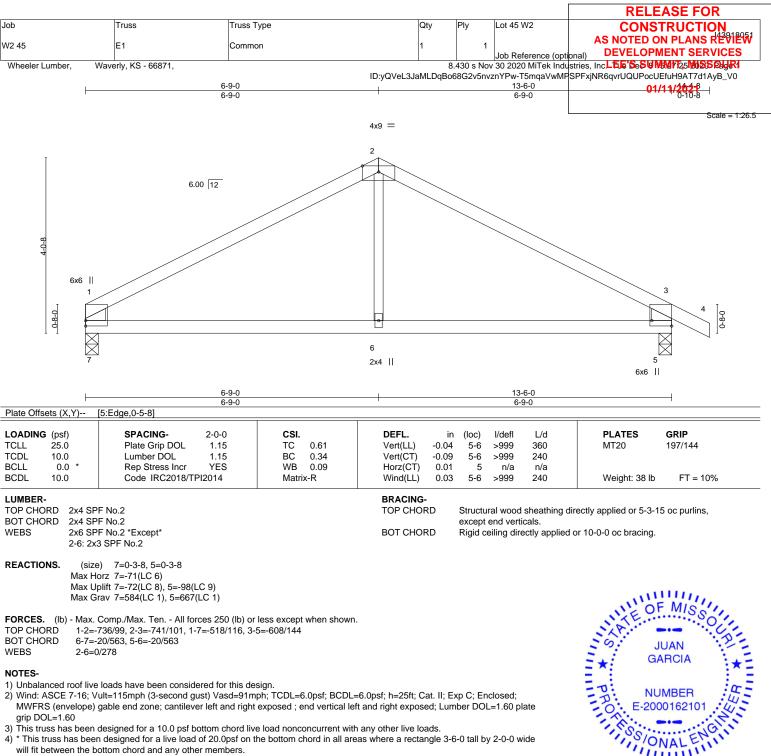
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-3=-70, 3-6=-70, 6-7=-70, 7-8=-70, 8-9=-70, 9-11=-70, 2-17=-20, 15-17=-20, 10-14=-20

Concentrated Loads (lb)

Vert: 3=-39(B) 15=-16(B) 5=-31(B) 16=-16(B) 4=-31(B) 12=1(B) 18=-31(B) 19=-31(B) 20=-31(B) 21=-31(B) 22=-22(B) 23=-16(B) 24=-16(B) 25=-16(B) 26=-16(B) 26=-1



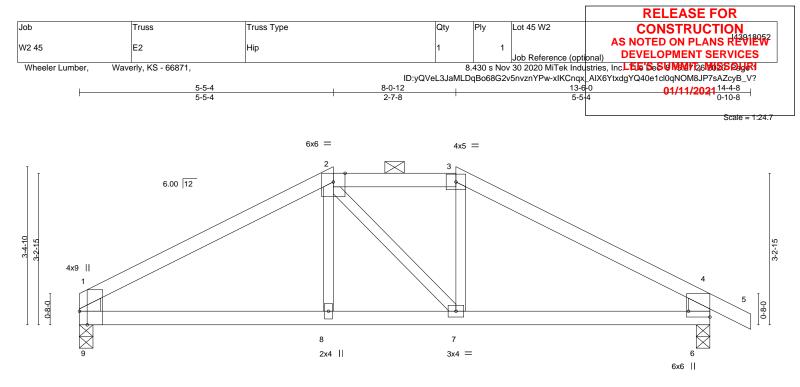


5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.

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







	 	<u>5-5-4</u> 5-5-4		8-0-12			<u>13-6-0</u> 5-5-4					
Plate Offse	ets (X,Y)	[1:0-3-8,Edge], [6:Edge,0-	-5-8]			2-7-8				5-5	-4	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.03	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.06	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matrix	k-S	Wind(LL)	0.02	7-8	>999	240	Weight: 42 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 1-9,4-6: 2x6 SPF No.2

REACTIONS. (size) 9=0-3-8, 6=0-3-8 Max Horz 9=-61(LC 6) Max Uplift 9=-62(LC 8), 6=-89(LC 9) Max Grav 9=584(LC 1), 6=667(LC 1)

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

 TOP CHORD
 1-2=-779/69, 2-3=-617/104, 3-4=-788/70, 1-9=-508/99, 4-6=-605/128

BOT CHORD 8-9=-24/618, 7-8=-26/617, 6-7=0/619

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6. 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.

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



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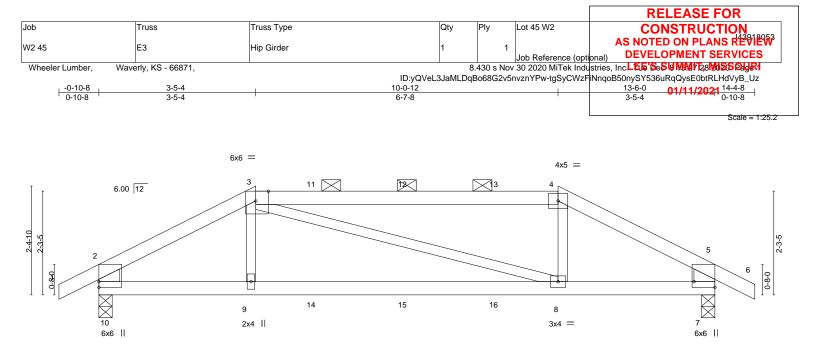
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Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

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

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



	3-5-4		6-7-8		1	3-5-4	1
Plate Offsets (X,Y)	[3:0-3-5,Edge], [7:Edge,0-5-8]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.71 BC 0.72 WB 0.09 Matrix-S	DEFL. in Vert(LL) -0.10 Vert(CT) -0.24 Horz(CT) 0.02 Wind(LL) 0.09	8-9 >99 8-9 >60 7 n	99 360 62 240 n/a n/a	PLATES MT20 Weight: 44 lb	GRIP 197/144 FT = 10%
3-4: 2x	PF No.2 *Except* 4 SPF 2100F 1.8E PF No.2		BRACING- TOP CHORD BOT CHORD	except end	verticals, and 2-0-	ectly applied or 4-2-1 0 oc purlins (5-9-9 m or 10-0-0 oc bracing.	

10-0-12

REACTIONS. (size) 10=0-3-8, 7=0-3-8 Max Horz 10=-45(LC 27) Max Uplift 10=-192(LC 8), 7=-192(LC 9)

2x3 SPF No.2 *Except*

2-10,5-7: 2x6 SP DSS

Max Grav 10=836(LC 1), 7=836(LC 1)

3-5-4

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

- TOP CHORD 2-3=-1208/261, 3-4=-1011/256, 4-5=-1210/261, 2-10=-752/179, 5-7=-753/179
- BOT CHORD 9-10=-224/1015, 8-9=-230/1010, 7-8=-206/1017
- WEBS 3-9=0/276, 4-8=0/277

NOTES-

WEBS

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

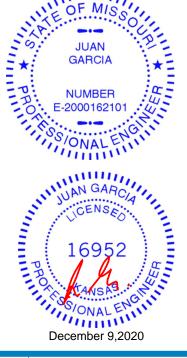
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=192, 7=192.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 162 lb down and 138 lb up at 3-5-4, 78 lb down and 65 lb up at 4-9-0, 78 lb down and 65 lb up at 6-9-0, and 78 lb down and 65 lb up at 8-9-0, and 162 lb down and 138 lb up at 10-0-12 on top chord, and 55 lb down at 3-5-4, 23 lb down at 4-9-0, 23 lb down at 6-9-0, and 23 lb down at 8-9-0, and 55 lb down at 10-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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 besign value to be only with with ever connectors. This besign is based only upon 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



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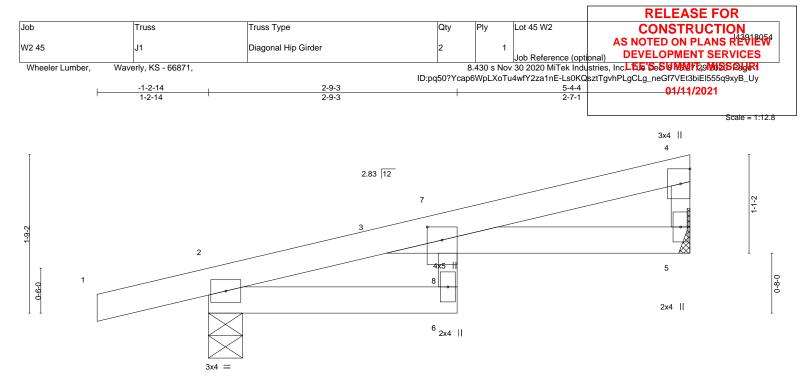


						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 45 W2	CONSTRUCTION AS NOTED ON PLANS REVIEW
W2 45	E3	Hip Girder	1	1		
			•		Job Reference (opti	
Wheeler Lumber, Wave	erly, KS - 66871,		8.	430 s Nov	30 2020 MiTek Indu	stries, Inc.LEE'SeSUMM1728M055 Page2
		ID:yQVeL3	BJaMLDqE	8068G2v5r	vznYPw-tgSyCWzF	iNnqoB50nySY536uRqQysE0btRLHdVyB_Uz
LOAD CASE(S) Standard						01/11/2021
Uniform Loads (plf)						

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-20 Concentrated Loads (Ib)

Vert: 3=-64(B) 4=-64(B) 9=-37(B) 8=-37(B) 11=-30(B) 12=-30(B) 13=-30(B) 14=-17(B) 15=-17(B) 16=-17(B)





	1		2-9-3		1	5-4-4		1	
	1		2-9-3			2-7-1			
Plate Offsets (X,Y)	[3:0-1-12,0-2-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.50	Vert(LL) -	0.07 6 >920	360	MT20	197/144	

LUMBER-	D 2x4 SPI	F No.2				BRACING- TOP CHOR		Structu	ral wood	sheathing of	directly applied or 5-4-4	l oc purlins,
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2018/TF	NO PI2014	WB Matri	0.03 x-S	Horz(CT) Wind(LL)	0.04 0.06	5 6	n/a >977	n/a 240	Weight: 16 lb	FT = 10%
	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.13	6	>460	240		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.07	6	>920	360	MT20	197/144
LUADING	(psi)	SPACING-		DEFL.	In	(10C)	i/dell	L/a	PLAIES	GRIP		

BOT CHORD

except end verticals.

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

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2

REACTIONS. (size) 5=Mechanical, 2=0-4-9 Max Horz 2=52(LC 22)

Max Uplift 5=-40(LC 8), 2=-102(LC 4) Max Grav 5=220(LC 1), 2=350(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2 = 102.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 67 lb down and 31 lb up at 2-7-6, and 67 lb down and 31 lb up at 2-7-6 on top chord, and 0 lb down at 2-7-15, and 0 lb down at 2-7-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

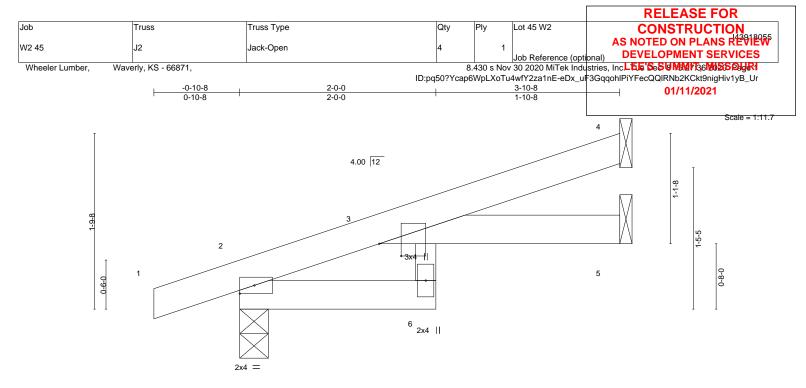
Uniform Loads (plf) Vert: 1-4=-70, 2-6=-20, 3-5=-20



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2-0-0	
2-0-0	

	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.03	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.05	6	>820	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-P	Wind(LL)	0.03	6	>999	240	Weight: 11 lb	FT = 10%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

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

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

Max Horz 2=65(LC 4)

Max Uplift 4=-52(LC 8), 2=-65(LC 4) Max Grav 4=135(LC 1), 2=252(LC 1), 5=48(LC 3)

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

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) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

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



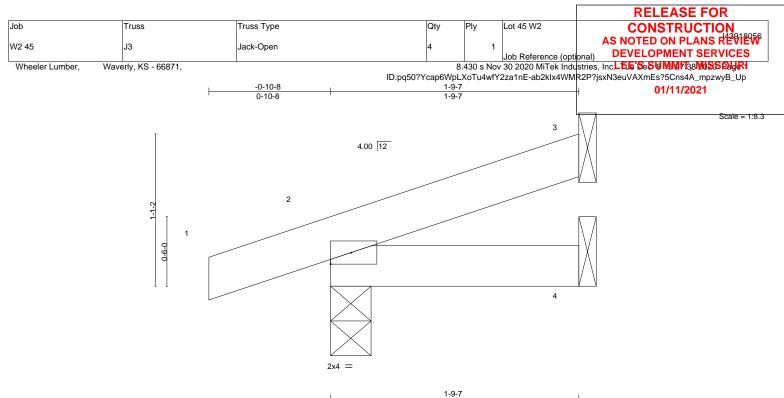
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Structural wood sheathing directly applied or 3-10-8 oc purlins.

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

16023 Swingley Ridge Rd Chesterfield, MO 63017



							1-9-7				7	
LOADING () TCLL 2	psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC	0.05	DEFL. Vert(LL)	in -0.00	()	l/defl >999	L/d 360	PLATES MT20	GRIP 197/144
TCDL 1	0.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 1	0.0	Code IRC2018/TF	PI2014	Matri	k-P	Wind(LL)	0.00	2	****	240	Weight: 5 lb	FT = 10%

TOP CHORD

BOT CHORD

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

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

Max Horz 2=37(LC 4) Max Uplift 3=-27(LC 8), 2=-56(LC 4)

Max Grav 3=45(LC 1), 2=158(LC 1), 4=35(LC 3)

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

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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.

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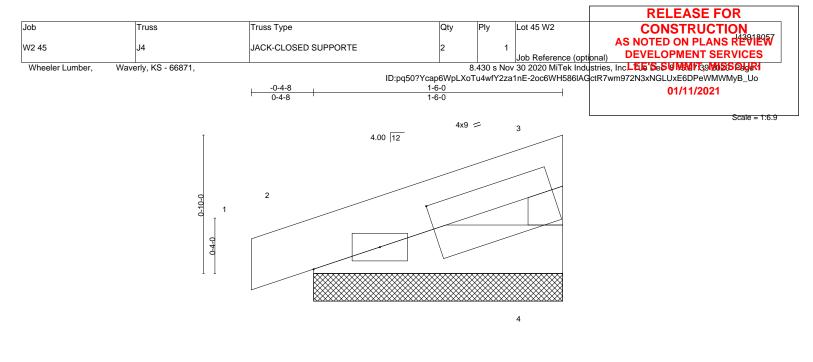
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Structural wood sheathing directly applied or 1-9-7 oc purlins.

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





2x4 =

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ADING	i (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL	25.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
FCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matrix	K-P						Weight: 4 lb	FT = 10%

BOT CHORD

except end verticals.

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

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

REACTIONS. (size) 4=1-6-0, 2=1-6-0 Max Horz 2=24(LC 5)

Max Uplift 4=-12(LC 8), 2=-28(LC 4) Max Grav 4=59(LC 1), 2=93(LC 1)

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

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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.4) Gable studs spaced at 2-0-0 oc.

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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 4, 2.

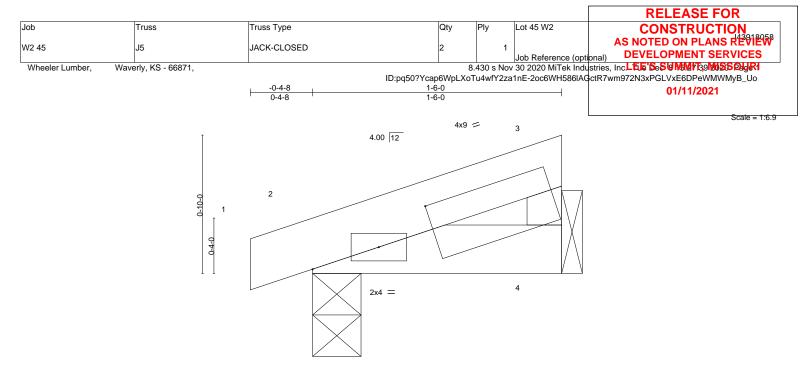
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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16023 Swingley Ridge Rd Chesterfield, MO 63017



			<u> </u>	
Plate Offsets (X,Y)	[3:0-9-2,0-1-12]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.02	Vert(LL) -0.00 2 >999 360	MT20 197/144

LUMBER TOP CHC	DIMBER- BRACING- DP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing									directly applied or 1-6-	0 oc purlins,	
BCDL	10.0	Code IRC2018/T	Matr		Wind(LL)	0.00		****		Weight: 4 lb	FT = 10%	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	2	>999	240		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	-0.00	2	>999	360	MT20	197/144
LOADING	G (psf)	SPACING-		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP		

BOT CHORD

except end verticals.

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

OP CHORD BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2

REACTIONS. (size) 4=Mechanical, 2=0-3-8 Max Horz 2=24(LC 5)

Max Uplift 4=-12(LC 8), 2=-30(LC 4) Max Grav 4=57(LC 1), 2=94(LC 1)

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

NOTES-

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

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

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

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

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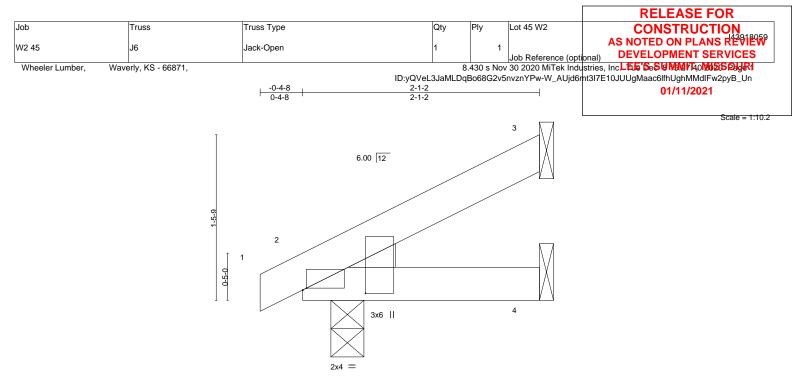
🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTeK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





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			0-3-0	2-1-2						
			0-3-0	1-10-2						
Offsets (X,Y)	[2:0-0-7,Edge], [2:0-0-5,	0-6-11]								
								_		
NG (nsf)	SPACING-	2-0-0	CSI	DEEL	in (loc)	l/defl	I/d	PLATES	GRIP	

BRACING-TOP CHORD

BOT CHORD

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) -0.00	2	>999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00	2-4	>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-P	Wind(LL) 0.00	2	**** 240	Weight: 6 lb FT = 10%

LUMBER-

Plate Of

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEDGE Left: 2x3 SPF No.2

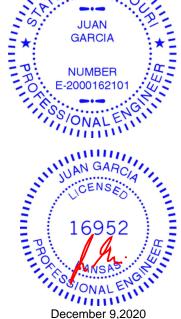
REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=49(LC 8) Max Uplift 3=-39(LC 8), 2=-16(LC 8) Max Grav 3=61(LC 1), 2=126(LC 1), 4=38(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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.



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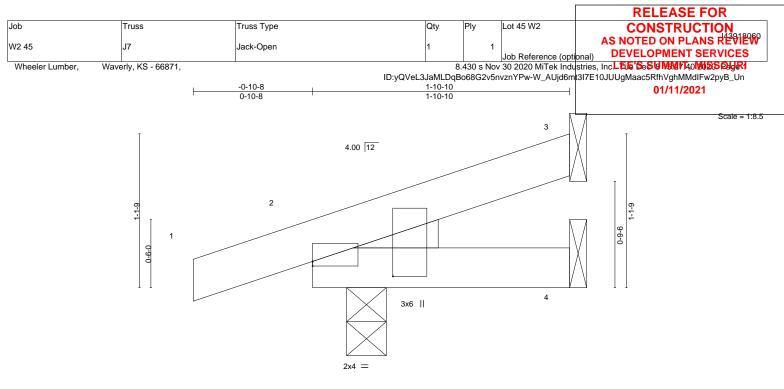
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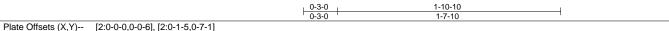
Structural wood sheathing directly applied or 2-1-2 oc purlins.

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

December 9,2020







BCDL 100 Code IRC2018/TP12014 Matrix-P Wind(LL) 0.00 2 **** 240 Weight: 6 lb FT = 10%	LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.07 BC 0.03 WB 0.00 Materia B	DEFL. in Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) -0.00 Wind(L) 0.00	2 2-4 3	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
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BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEDGE Left: 2x3 SPF No.2

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

Max Horz 2=39(LC 4) Max Uplift 3=-29(LC 8), 2=-56(LC 4) Max Grav 3=49(LC 1), 2=162(LC 1), 4=37(LC 3)

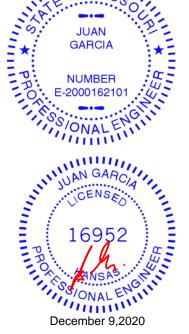
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

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) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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.



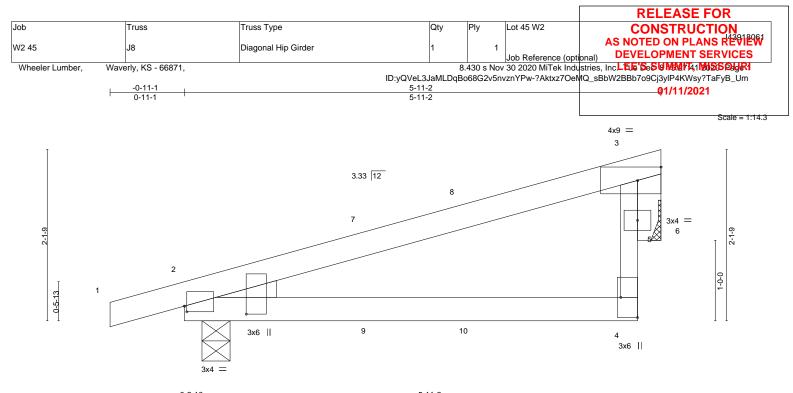
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Structural wood sheathing directly applied or 1-10-10 oc purlins.

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





	0 <u>-2-10</u>		5-11-2	
	0-2-10		5-8-8	_
Plate Offsets (X,Y)	- [2:0-1-3,0-9-3], [2:0-0-6,0-0-14], [4:Edg	e,0-2-8]		_
		· ·		=
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL 25.0	Plate Grip DOL 1.15	TC 0.36	Vert(LL) -0.02 2-4 >999 360 MT20 197/144	
TCDL 10.0	Lumber DOL 1.15	BC 0.35	Vert(CT) -0.05 2-4 >999 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.27	Horz(CT) 0.00 6 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 2-4 >999 240 Weight: 17 lb FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

except end verticals.

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

Structural wood sheathing directly applied or 5-11-2 oc purlins,

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LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 OTHERS 2x4 SPF No.2 WEDGE

Left: 2x3 SPF No.2

REACTIONS. (size) 2=0-4-3, 6=Mechanical Max Horz 2=62(LC 5) Max Uplift 2=-90(LC 4), 6=-50(LC 8) Max Grav 2=339(LC 1), 6=219(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-253/29, 3-5=-277/153

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 83 lb down and 35 lb up at 2-4-9, and 64 lb down and 45 lb up at 3-7-3 on top chord, and at 2-4-9, and 4 lb down at 3-7-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

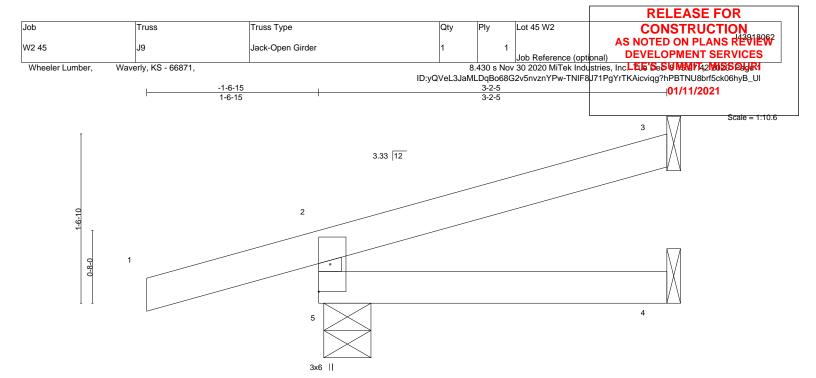
LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-70, 2-4=-20

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> MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



						3-1-12			1	
LOADING (psf)	SPACING- 2-0-	0 CS I		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.1	5 TC	0.25	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.1	5 BC	0.06	Vert(CT)	-0.00	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr N	O WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Mat	rix-R	Wind(LL)	0.00	4-5	>999	240	Weight: 9 lb	FT = 10%

TOP CHORD

BOT CHORD

2 2 6

except end verticals

Structural wood sheathing directly applied or 3-2-5 oc purlins,

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

LUMBER-

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

2x3 SPF No.2

REACTIONS. 5=0-5-3, 3=Mechanical, 4=Mechanical (size) Max Horz 5=56(LC 12) Max Uplift 5=-82(LC 6), 3=-52(LC 12), 4=-3(LC 19) Max Grav 5=167(LC 1), 3=30(LC 1), 4=40(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
 - referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 36 lb down and 13 lb up at -1-6-15, and 36 lb down and 13 lb up at -1-6-15 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

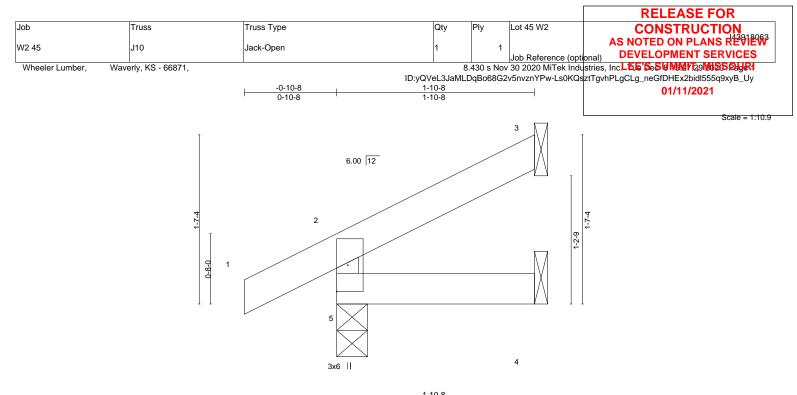
LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Concentrated Loads (lb)
- Vert: 1=-56(F=-28, B=-28)
- Trapezoidal Loads (plf)
 - Vert: 1=0(F=35, B=35)-to-2=-42(F=14, B=14), 2=-2(F=34, B=34)-to-3=-56(F=7, B=7), 5=-0(F=10, B=10)-to-4=-16(F=2, B=2)



December 9.2020

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



	1-10-8										
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES	GRIP			
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00	5	>999	360	MT20	197/144			
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00	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	5	>999	240	Weight: 6 lb	FT = 10%			

LUMBER-

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

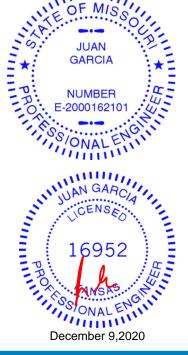
WEBS 2x3 SPF No.2

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=47(LC 8) Max Uplift 5=-25(LC 8), 3=-31(LC 8) Max Grav 5=167(LC 1), 3=45(LC 1), 4=33(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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.



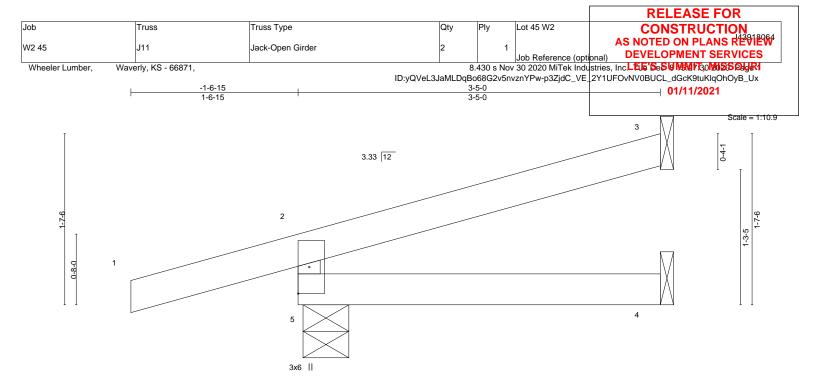
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🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTeK® connectors. This design is based only upon parameters shown, and is for an individual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



BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.



	3-4-7										
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (lo	oc) l/de	fl L/d	PLATES	GRIP			
TCLL 25.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL)	-0.01 4	1-5 >99	9 360	MT20	197/144			
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT)	-0.01 4	1-5 >99	9 240					
BCLL 0.0 *	Rep Stress Incr NO	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	1-5 >99	9 240	Weight: 10 lb	FT = 10%			

TOP CHORD

BOT CHORD

3-5-0

except end verticals.

LUMBER-

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

2x3 SPF No.2

5=0-5-3, 3=Mechanical, 4=Mechanical REACTIONS. (size) Max Horz 5=58(LC 12)

Max Uplift 5=-83(LC 4), 3=-53(LC 12), 4=-2(LC 19) Max Grav 5=176(LC 1), 3=38(LC 1), 4=45(LC 3)

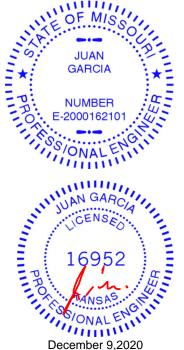
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1. 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 39 lb down and 14 lb up at -1-6-15, and 39 lb down and 14 lb up at -1-6-15 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Concentrated Loads (lb)
- Vert: 1=-60(F=-30, B=-30)
- Trapezoidal Loads (plf)
 - Vert: 1=0(F=35, B=35)-to-2=-42(F=14, B=14), 2=-2(F=34, B=34)-to-3=-60(F=5, B=5), 5=-0(F=10, B=10)-to-4=-17(F=1, B=1)

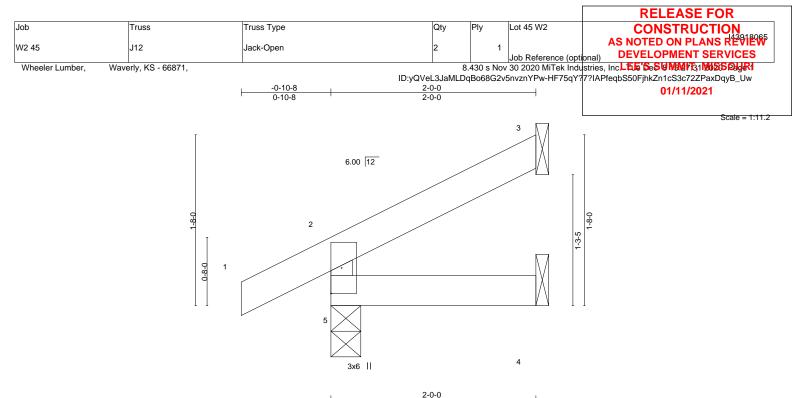


Structural wood sheathing directly applied or 3-5-0 oc purlins,

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



December 9.2020



		2-0-0										
LOADING	u /	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	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/TF	912014	Matri	k-R	Wind(LL)	0.00	5	>999	240	Weight: 6 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2

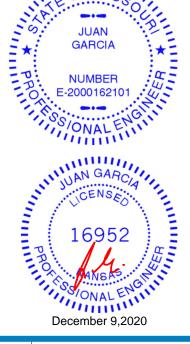
REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=50(LC 8) Max Uplift 5=-25(LC 8), 3=-33(LC 8)

Max Grav 5=171(LC 1), 3=50(LC 1), 4=35(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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.



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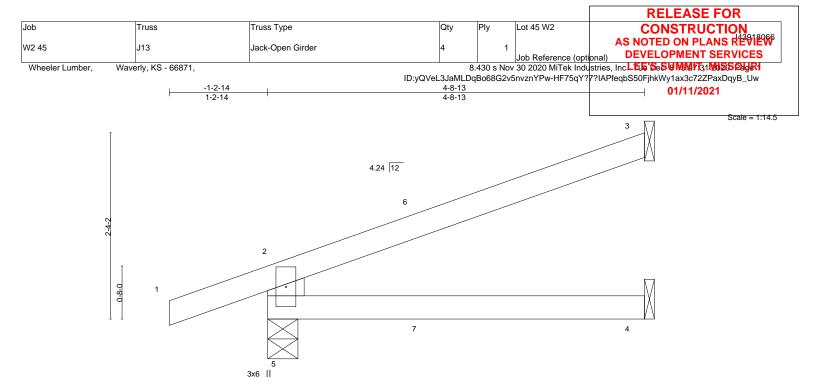
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Structural wood sheathing directly applied or 2-0-0 oc purlins,

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

except end verticals.





		4-8-13 4-8-13	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.02 4-5 >999 360 MT20 197/144
TCLL 25.0	Plate Grip DOL 1.15	TC 0.31	
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) 0.02 4-5 >999 240 Weight: 13 lb FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

2x6 SPF No.2

REACTIONS. 5=0-4-9, 3=Mechanical, 4=Mechanical (size) Max Horz 5=85(LC 4) Max Uplift 5=-91(LC 4), 3=-63(LC 8) Max Grav 5=317(LC 1), 3=133(LC 1), 4=82(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-281/129

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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.

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 22 lb up at 1-11-15, and 66 lb down and 22 lb up at 1-11-15 on top chord, and 2 lb down and 2 lb up at 1-11-15, and 2 lb down and 2 lb up at 1-11-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

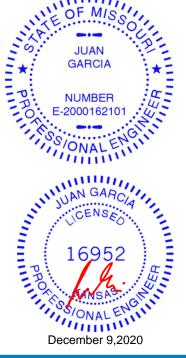
LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 4-5=-20

- Concentrated Loads (lb)
 - Vert: 7=4(F=2, B=2)

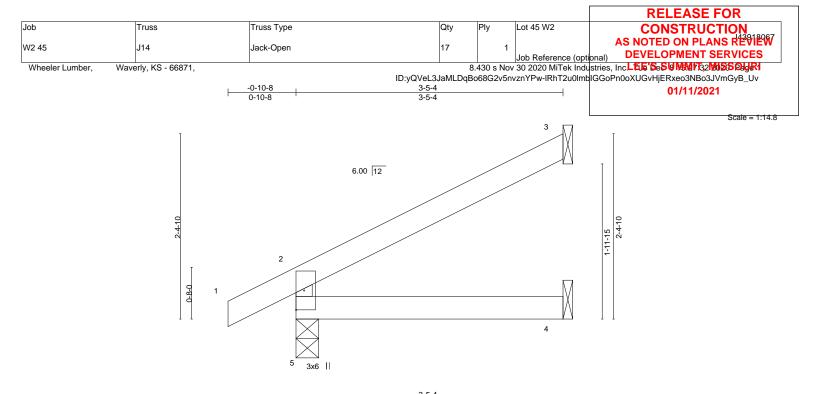


Structural wood sheathing directly applied or 4-8-13 oc purlins,

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

except end verticals.





		-	3-5-4	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) -0.01 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) -0.00 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 No 2 BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 BRACING-TOP CHORD BOT CHORD

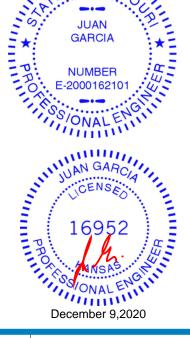
Structural wood sheathing directly applied or 3-5-4 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=78(LC 8) Max Uplift 5=-28(LC 8), 3=-58(LC 8) Max Grav 5=226(LC 1), 3=100(LC 1), 4=62(LC 3)

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

NOTES-

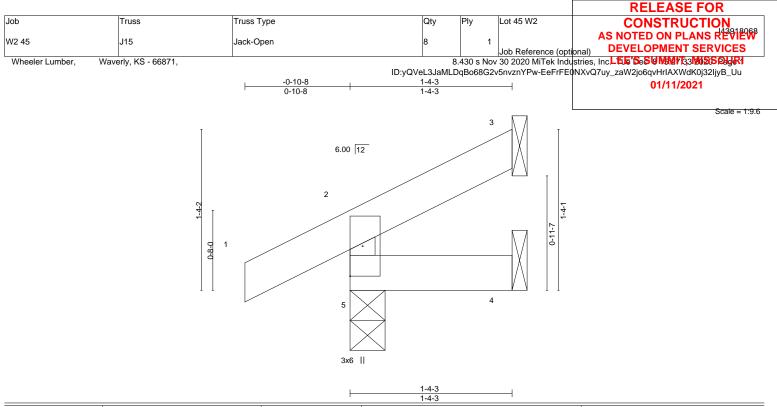
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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.



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				1-4-5	
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00 5 >999 360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.01	Vert(CT) -0.00 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 5 >999 240	Weight: 5 lb FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2

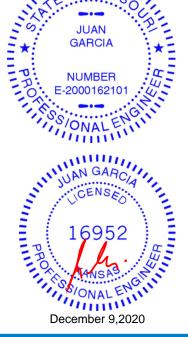
REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=36(LC 8) Max Uplift 5=-26(LC 8), 3=-19(LC 8)

Max Grav 5=151(LC 1), 3=21(LC 1), 4=22(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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.



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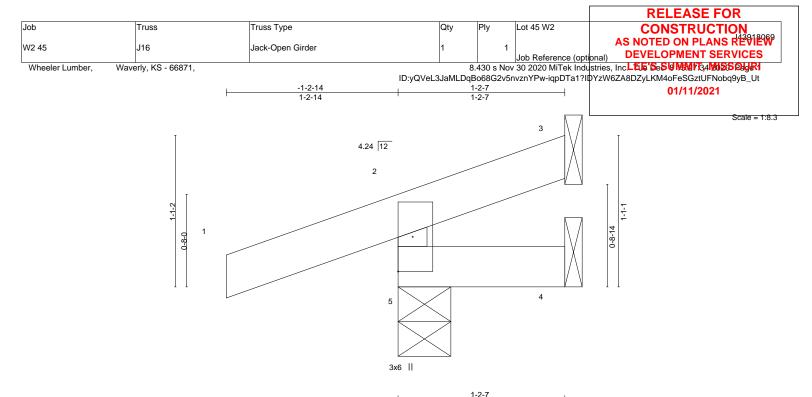
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Structural wood sheathing directly applied or 1-4-3 oc purlins,

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

except end verticals.





		1-2-7										
LOADIN TCLL	G (psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC	0.08	DEFL. Vert(LL)	in -0.00	(loc) 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	0.01 0.00	Vert(CT) Horz(CT)	-0.00 0.00	5	>999 n/a	240 n/a		
BCDL	10.0	Code IRC2018/TF		Matri		Wind(LL)	0.00	5	>999	240	Weight: 5 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

2x3 SPF No.2

REACTIONS. 5=0-4-9, 3=Mechanical, 4=Mechanical (size) Max Horz 5=38(LC 7) Max Uplift 5=-115(LC 6), 3=-13(LC 5)

Max Grav 5=69(LC 1), 3=18(LC 15), 4=16(LC 3)

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

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=115.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2 lb down and 1 lb up at -1-2-14 , and 2 lb down and 1 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Concentrated Loads (lb)
- Vert: 1=-3(F=-1, B=-1) Trapezoidal Loads (plf)
 - - Vert: 1=-7(F=32, B=32)-to-2=-30(F=20, B=20), 2=-30(F=20, B=20)-to-3=-50(F=10, B=10), 5=-9(F=6, B=6)-to-4=-14(F=3, B=20)-to-3=-50(F=10, B=10), 5=-9(F=6, B=6)-to-4=-14(F=3, B=10), 5=-9(F=10, B=1 B=3)



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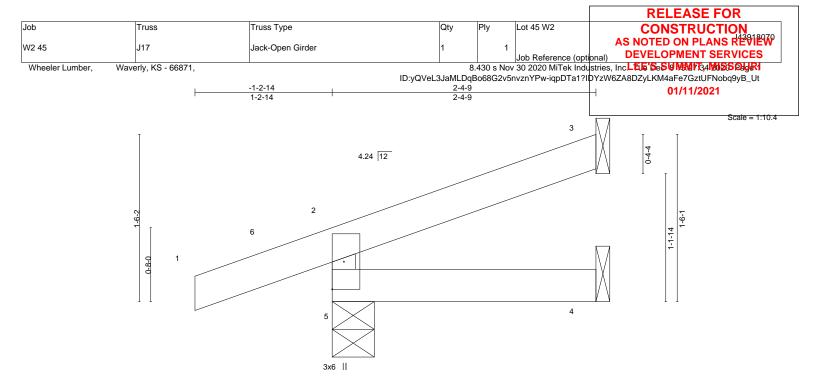
Structural wood sheathing directly applied or 1-2-7 oc purlins,

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

except end verticals.







			<u>2-4-9</u> 2-4-9		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (lo	oc) l/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL) -0.00 4	4-5 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 4	4-5 >999 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00	3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00	5 >999 240	Weight: 7 lb FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

2x3 SPF No.2

5=0-4-9, 3=Mechanical, 4=Mechanical REACTIONS. (size) Max Horz 5=57(LC 12) Max Uplift 5=-92(LC 6), 3=-37(LC 12), 4=-1(LC 19) Max Grav 5=93(LC 1), 3=24(LC 1), 4=30(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 18 lb down and 7 lb up at -1-2-14, and 18 lb down and 7 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Concentrated Loads (lb)
- Vert: 1=-28(F=-14, B=-14)
- Trapezoidal Loads (plf)
 - Vert: 1=0(F=35, B=35)-to-6=-23(F=24, B=24), 6=0(F=35, B=35)-to-2=-10(F=30, B=30), 2=-10(F=30, B=30)-to-3=-49(F=10, B=30)-to-3=-40+to-3=-400+to-3=-40+to-3=-400+to-3=-40+to-3=-400+to-3=-400+to-3=-40+to-3=-400+to-3=-40+to-3=-400+to-3=-400+to-3= B=10), 5=-3(F=9, B=9)-to-4=-14(F=3, B=3)



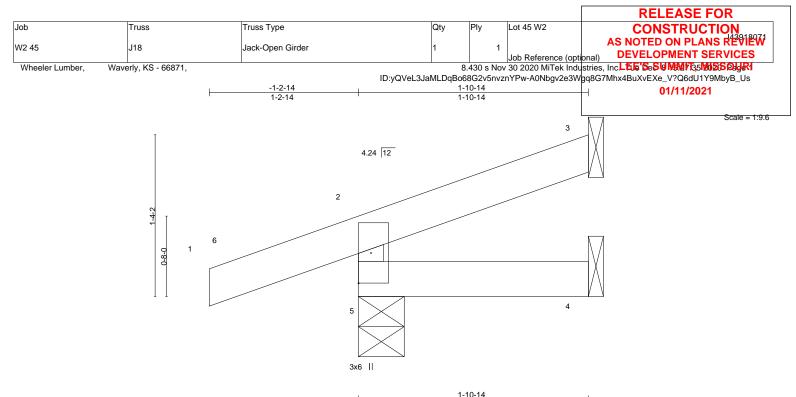
Structural wood sheathing directly applied or 2-4-9 oc purlins.

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

except end verticals.



December 9.2020



		1-10-14								1		
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.08	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-R	Wind(LL)	0.00	5	>999	240	Weight: 6 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

2x3 SPF No.2

5=0-4-9, 3=Mechanical, 4=Mechanical REACTIONS. (size) Max Horz 5=49(LC 7)

Max Uplift 5=-108(LC 6), 3=-18(LC 12) Max Grav 5=70(LC 1), 3=24(LC 1), 4=26(LC 3)

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

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (it=lb) 5=108.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 9 lb down and 3 lb up at -1-2-14 , and 9 lb down and 3 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Concentrated Loads (lb)
 - Vert: 1=-14(F=-7, B=-7)
- Trapezoidal Loads (plf)
 - Vert: 1=0(F=35, B=35)-to-6=-10(F=30, B=30), 6=0(F=35, B=35)-to-2=-18(F=26, B=26), 2=-18(F=26, B=26)-to-3=-50(F=10, B=10), 5=-5(F=7, B=7)-to-4=-14(F=3, B=3)



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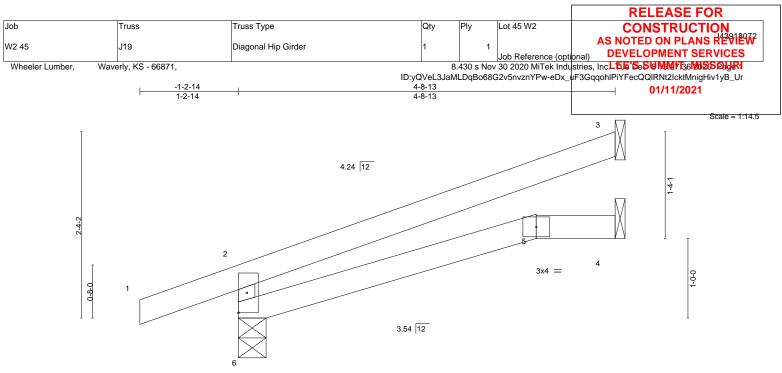
Structural wood sheathing directly applied or 1-10-14 oc purlins,

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

except end verticals



December 9.2020



3x6 ||

			3-8-15 3-8-15				4-8-13 0-11-15		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL)	-0.02	5 -6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT)	-0.03	5-6	>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)	0.02	5-6	>999	240	Weight: 13 lb	FT = 10%
LUMBER-			BRACING-						

TOP CHORD

BOT CHORD

LUMBER-

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

2x3 SPF No.2

REACTIONS. 6=0-4-3, 3=Mechanical, 4=Mechanical (size) Max Horz 6=84(LC 12) Max Uplift 6=-64(LC 4), 3=-53(LC 12) Max Grav 6=196(LC 1), 3=108(LC 1), 4=76(LC 3)

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

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections. 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

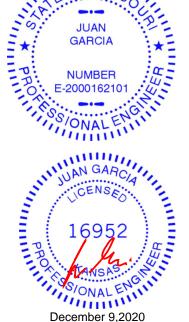
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 3.

- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 44 lb down and 16 lb up at -1-2-14, and 44 lb down and 16 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

- Concentrated Loads (lb) Vert: 1=-67(F=-34 B=-34)
- Trapezoidal Loads (plf)
 - Vert: 1=0(F=35, B=35)-to-2=-33(F=18, B=18), 2=-2(F=34, B=34)-to-3=-83(F=-6, B=-6), 6=-0(F=10, B=10)-to-5=-19(F=1, B=10)-to-5=-10 B=1), 5=-19(F=1, B=1)-to-4=-24(F=-2, B=-2)



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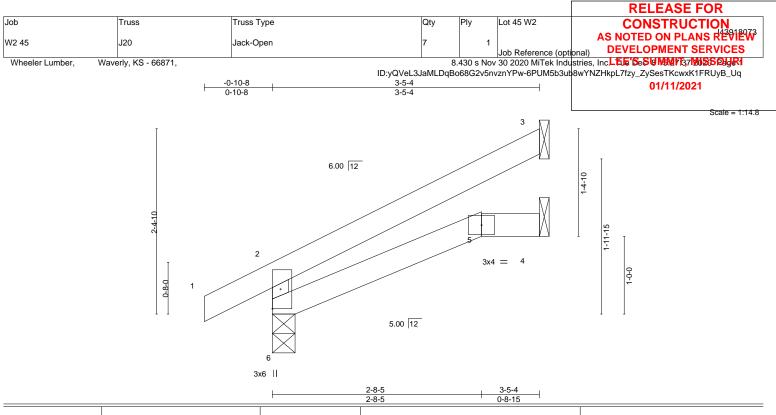
Structural wood sheathing directly applied or 4-8-13 oc purlins,

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

except end verticals.



December 9.2020



						2-8-5			0-8-15			
	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.01	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	5-6	>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/TI	PI2014	Matri	x-R	Wind(LL)	0.01	5-6	>999	240	Weight: 10 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

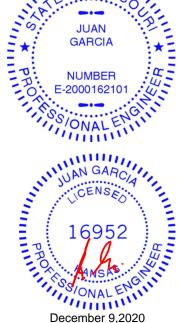
WEBS 2x3 SPF No.2

REACTIONS. 6=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 6=77(LC 8) Max Uplift 6=-26(LC 8), 3=-60(LC 8) Max Grav 6=226(LC 1), 3=101(LC 1), 4=62(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections. 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 3.
- 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.



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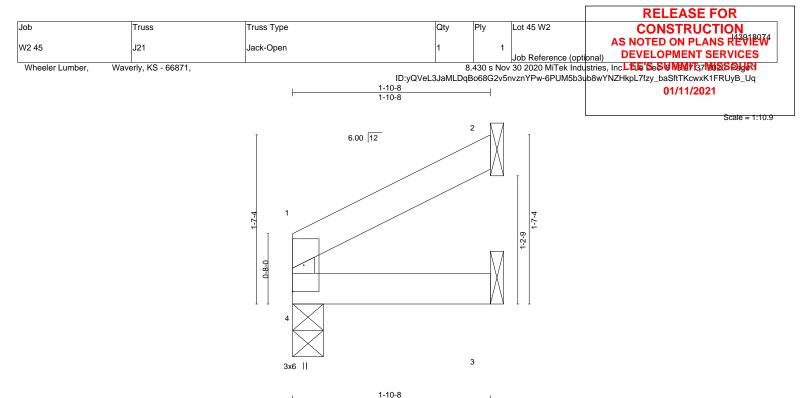
Structural wood sheathing directly applied or 3-5-4 oc purlins,

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

except end verticals.

🛦 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/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 December 9,2020





		-	1-10-8						
LOADING (psf)	SPACING- 2-0-0		DEFL.		(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.05 BC 0.03		-0.00 -0.00	4 3-4	>999 >999	360 240	MT20	197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) · Wind(LL)	-0.00 0.00	2 4	n/a >999	n/a 240	Weight: 5 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

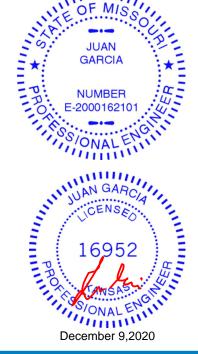
2x3 SPF No.2

REACTIONS. 4=0-3-8, 2=Mechanical, 3=Mechanical (size) Max Horz 4=31(LC 5) Max Uplift 2=-35(LC 8) Max Grav 4=79(LC 1), 2=58(LC 1), 3=34(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.



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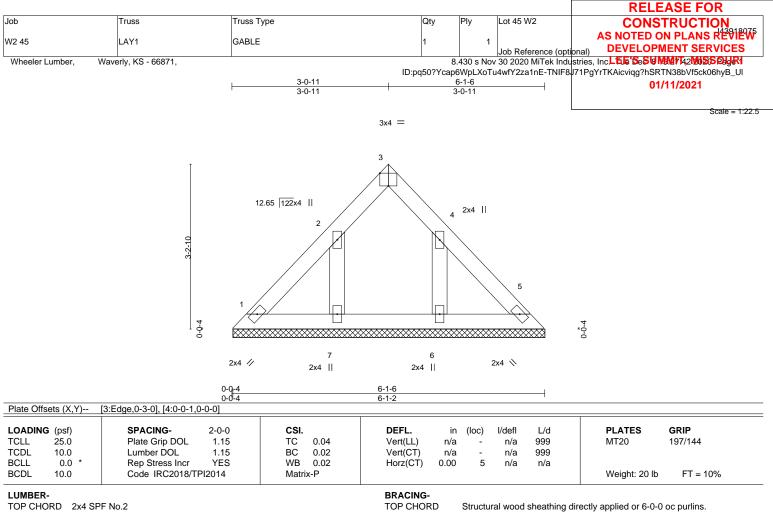
11

Structural wood sheathing directly applied or 1-10-8 oc purlins,

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

except end verticals.





BOT CHORD

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

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

REACTIONS. All bearings 6-1-2.

(lb) -Max Horz 1=-76(LC 4)

Max Uplift All uplift 100 lb or less at joint(s) except 7=-102(LC 8), 6=-100(LC 9) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 6

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

NOTES-

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

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

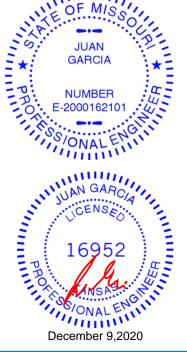
3) Gable requires continuous bottom chord bearing.

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

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

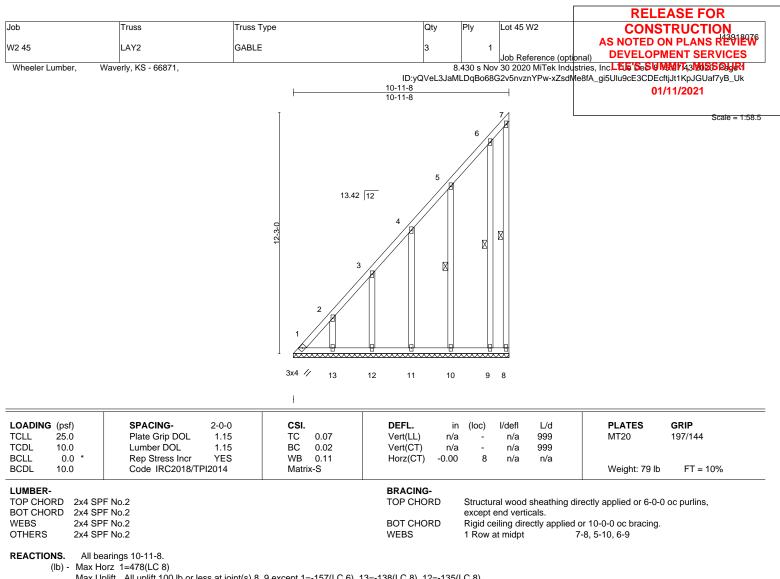
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 7 and 100 lb uplift at ioint 6.

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.



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Max Uplift All uplift 100 lb or less at joint(s) 8, 9 except 1=-157(LC 6), 13=-138(LC 8), 12=-135(LC 8), 11=-134(LC 8), 10=-144(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 8, 13, 12, 11, 10, 9 except 1=491(LC 8)

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

TOP CHORD 1-2=-674/272, 2-3=-544/220, 3-4=-406/167, 4-5=-270/119

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) gable end zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) All plates are 2x4 MT20 unless otherwise indicated.

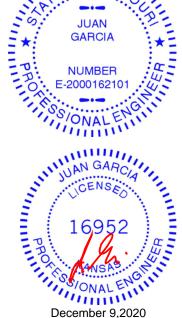
3) Gable requires continuous bottom chord bearing.

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

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 9 except (jt=lb) 1=157, 13=138, 12=135, 11=134, 10=144.

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.



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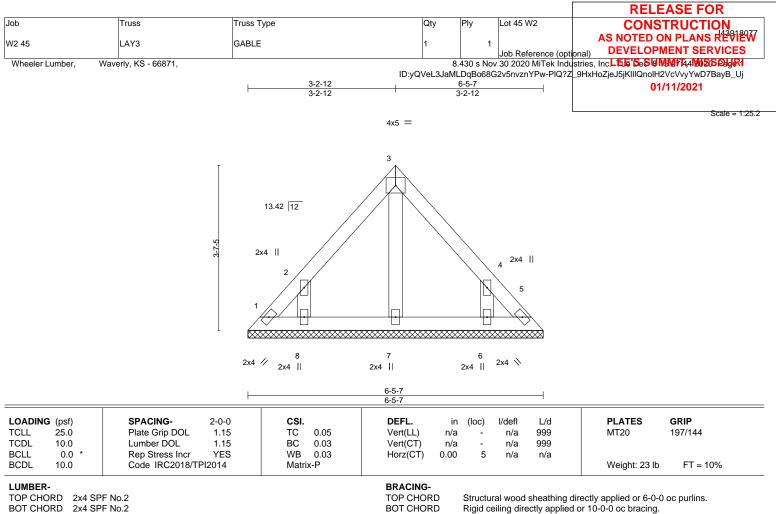
GARCIA

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MIS

December 9,2020

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



BOT CHORD 2x4 SPF No.2 OTHERS 2x4 SPF No.2

REACTIONS. All bearings 6-5-7. Max Horz 1=-87(LC 4) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-141(LC 8), 6=-141(LC 9) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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

NOTES-

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

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

3) Gable requires continuous bottom chord bearing.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=141.6=141.

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

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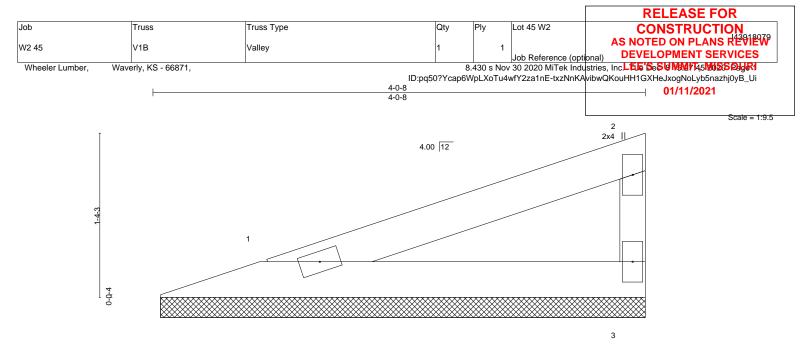
December 9,2020



With PROM JUAN GARCIA NUMBER E -2000162101 3 6 ONALE 16952 December 9,2020

	T	Truce Ture		Dha	-+ 45 \M/O	RELEASE FOR
Job	Truss	Truss Type	Qty	-	ot 45 W2	CONSTRUCTION AS NOTED ON PLANS REVIEW
N2 45 Wheeler Lumber, V	LAY4 Vaverly, KS - 66871,	GABLE	1	1 8 430 s Nov 3	ob Reference (opti	onal) DEVELOPMENT SERVICES stries, IncLEE'SeSUMMIT45MUSSOUGRI
	vaveny, no - 00071,	. 7				vibwQKouHH1GXHeJzHgNjLxA5nazhj0yB_Ui
		7	-7-12			01/11/2021
		1				Scale = 1:67.4
				Ī		
		12 11 10 <u>4-4-0</u> <u>4-4-0</u>	9 8 3x4 // 			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0- Plate Grip DOL 1.1 Lumber DOL 1.1 Rep Stress Incr YE Code IRC2018/TPI2014	5 TC 0.06 5 BC 0.09 5 WB 0.09	DEFL. Vert(LL) ກ. Vert(CT) ກ. Horz(CT) 0.0	'a - 'a -	defl L/d n/a 999 n/a 999 n/a n/a	PLATES GRIP MT20 197/144 Weight: 66 lb FT = 10%
LUMBER- TOP CHORD 2x4 SPI BOT CHORD 2x4 SPI WEBS 2x4 SPI OTHERS 2x4 SPI	F No.2 F No.2		BRACING- TOP CHORD BOT CHORD	except end Rigid ceilir	d verticals.	directly applied or 6-0-0 oc purlins, d or 10-0-0 oc bracing, Except:
(Ib) - Max Ho Max Up	8=-109(LC 9), 7=-366(LC 9	pint(s) 12, 11 except 6=-420(LC 7), 9:) ; at joint(s) 12, 9, 11, 10, 8 except 6=			nidpt	1-12, 2-11, 3-10
FORCES. (lb) - Max. (TOP CHORD 3-4=-2 BOT CHORD 11-12 6-7=-2	Comp./Max. Ten All forces 25 266/117, 4-5=-412/170, 5-6=-73	0 (Ib) or less except when shown.		·		JUAN GARCIA
MWFRS (envelope) (DOL=1.60 2) All plates are 2x4 MT 3) Gable requires contir 4) This truss has been 5) * This truss has been	gable end zone; cantilever left a 720 unless otherwise indicated. huous bottom chord bearing. designed for a 10.0 psf bottom n designed for a live load of 20.	sd=91mph; TCDL=6.0psf; BCDL=6.0 and right exposed ; end vertical right e chord live load nonconcurrent with an Opsf on the bottom chord in all areas	xposed; Lumber D y other live loads.	OL=1.60 plate	e grip	NUMBER D. E-2000162101
 will fit between the bo 6) Provide mechanical of (jt=lb) 6=420, 9=417, 7) Beveled plate or shin 	ottom chord and any other men connection (by others) of truss 10=142, 8=109, 7=366. n required to provide full bearin d in accordance with the 2018		ng 100 lb uplift at jo 5, 8, 7.	int(s) 12, 11 e	except	16952 December 9,2020
WARNING - Verify c	lesign parameters and READ NOTES Of	I THIS AND INCLUDED MITEK REFERENCE PA	AGE MII-7473 rev. 5/19/20	20 BEFORE USE	E.	MII

MiTek* 16023 Swingley Ridge Rd Chesterfield, MO 63017



2x4 📁

2x4 ||

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

except end verticals.

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LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.16 BC 0.09 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	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: 9 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SPF No.2			BRACING- TOP CHOF		Structu	ral wood	sheathing di	rectly applied or 4-0-	-8 oc purlins,

BOT CHORD

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

REACTIONS. (size) 1=3-11-12, 3=3-11-12 Max Horz 1=45(LC 5) Max Uplift 1=-22(1 C 4) 3=-20(1 C

Max Uplift 1=-22(LC 4), 3=-29(LC 8) Max Grav 1=135(LC 1), 3=135(LC 1)

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

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) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

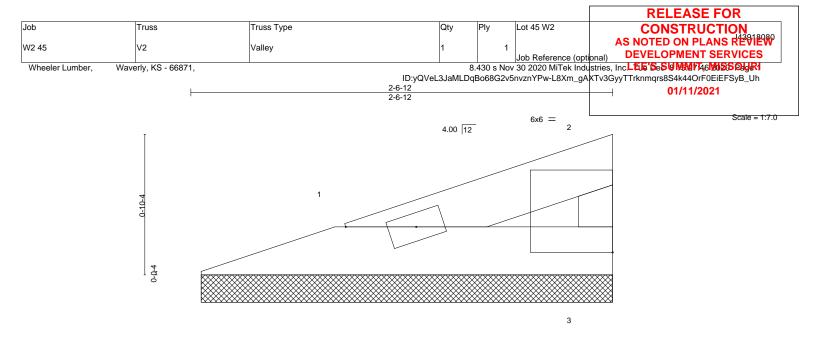
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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2x4 ⋍

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OADING (psf) CLL 25.0 CDL 10.0 CLL 0.0 * CDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.04 BC 0.02 WB 0.00 Matrix-P	DEFL. Vert(LL) n. Vert(CT) n. Horz(CT) -0.0	a -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 5 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2			BRACING- TOP CHORD Structural wood sheathing directly applied or 2-6-1: except end verticals.				-12 oc purlins,	

BOT CHORD

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

BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2

REACTIONS. (size) 1=2-6-0, 3=2-6-0

Max Horz 1=23(LC 5) Max Uplift 1=-11(LC 4), 3=-15(LC 8)

Max Grav 1=68(LC 1), 3=68(LC 1)

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 4) will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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