



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

08/05/2020

RE: 400422
Lot 77 RR

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

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

Design Code: IRC2018/TPI2014

Design Program: MiTek 20/20 8.4

Wind Code: N/A

Wind Speed: 115 mph

Roof Load: 45.0 psf

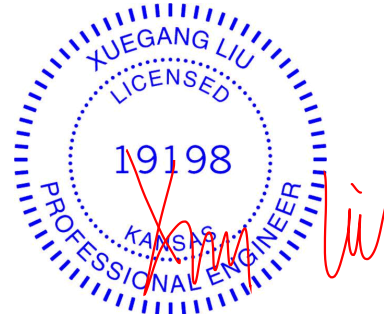
Floor Load: N/A psf

This package includes 68 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I42065388	B1A	7/17/2020	27	I42065414	D8	7/17/2020
2	I42065389	B2A	7/17/2020	28	I42065415	D9	7/17/2020
3	I42065390	B3A	7/17/2020	29	I42065416	E1	7/17/2020
4	I42065391	B4A	7/17/2020	30	I42065417	E2	7/17/2020
5	I42065392	B5	7/17/2020	31	I42065418	E3	7/17/2020
6	I42065393	B6	7/17/2020	32	I42065419	E4	7/17/2020
7	I42065394	B7	7/17/2020	33	I42065420	J2	7/17/2020
8	I42065395	B8	7/17/2020	34	I42065421	J5	7/17/2020
9	I42065396	B9	7/17/2020	35	I42065422	J6A	7/17/2020
10	I42065397	B10	7/17/2020	36	I42065423	J7A	7/17/2020
11	I42065398	B11	7/17/2020	37	I42065424	J8	7/17/2020
12	I42065399	B12	7/17/2020	38	I42065425	J9	7/17/2020
13	I42065400	B13	7/17/2020	39	I42065426	J10	7/17/2020
14	I42065401	B14	7/17/2020	40	I42065427	J11	7/17/2020
15	I42065402	C1	7/17/2020	41	I42065428	J12	7/17/2020
16	I42065403	C2	7/17/2020	42	I42065429	J13	7/17/2020
17	I42065404	C3	7/17/2020	43	I42065430	J14	7/17/2020
18	I42065405	C4	7/17/2020	44	I42065431	J15	7/17/2020
19	I42065406	C5	7/17/2020	45	I42065432	J16	7/17/2020
20	I42065407	D1	7/17/2020	46	I42065433	J17	7/17/2020
21	I42065408	D2	7/17/2020	47	I42065434	J18	7/17/2020
22	I42065409	D3	7/17/2020	48	I42065435	J19	7/17/2020
23	I42065410	D4	7/17/2020	49	I42065436	J20	7/17/2020
24	I42065411	D5	7/17/2020	50	I42065437	J21	7/17/2020
25	I42065412	D6	7/17/2020	51	I42065438	J22	7/17/2020
26	I42065413	D7	7/17/2020	52	I42065439	J23	7/17/2020

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: Liu, Xuegang
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.



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RE: 400422 - Lot 77 RR

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

Site Information:

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

Subdivision:

State:

No.	Seal#	Truss Name	Date
53	I42065440	J24	7/17/2020
54	I42065441	J25	7/17/2020
55	I42065442	J26	7/17/2020
56	I42065443	J27	7/17/2020
57	I42065444	J28	7/17/2020
58	I42065445	J29	7/17/2020
59	I42065446	J30	7/17/2020
60	I42065447	LAY2	7/17/2020
61	I42065448	LAY3	7/17/2020
62	I42065449	LAY4	7/17/2020
63	I42065450	LAY5	7/17/2020
64	I42065451	LAY6	7/17/2020
65	I42065452	LAY7	7/17/2020
66	I42065453	V5	7/17/2020
67	I42065454	V6	7/17/2020
68	I42065455	V7	7/17/2020



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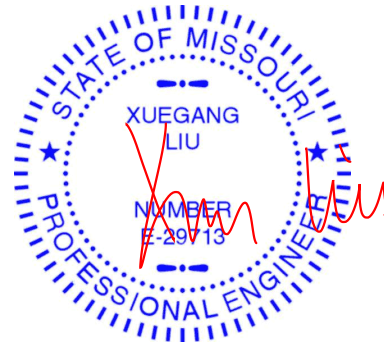
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The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision
based on the parameters provided by Wheeler - Waverly.
Truss Design Engineer's Name: Liu, Xuegang
My license renewal date for the state of Missouri 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.



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66	I42065453	V5	7/17/2020
67	I42065454	V6	7/17/2020
68	I42065455	V7	7/17/2020

Job: 400422

Truss: B1A

Truss Type: Half Hip Girder

Wheeler Lumber, Waverly, KS 66871

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

08/05/2020

Ply: 2

Lot 77 RR

Job Reference (optional)

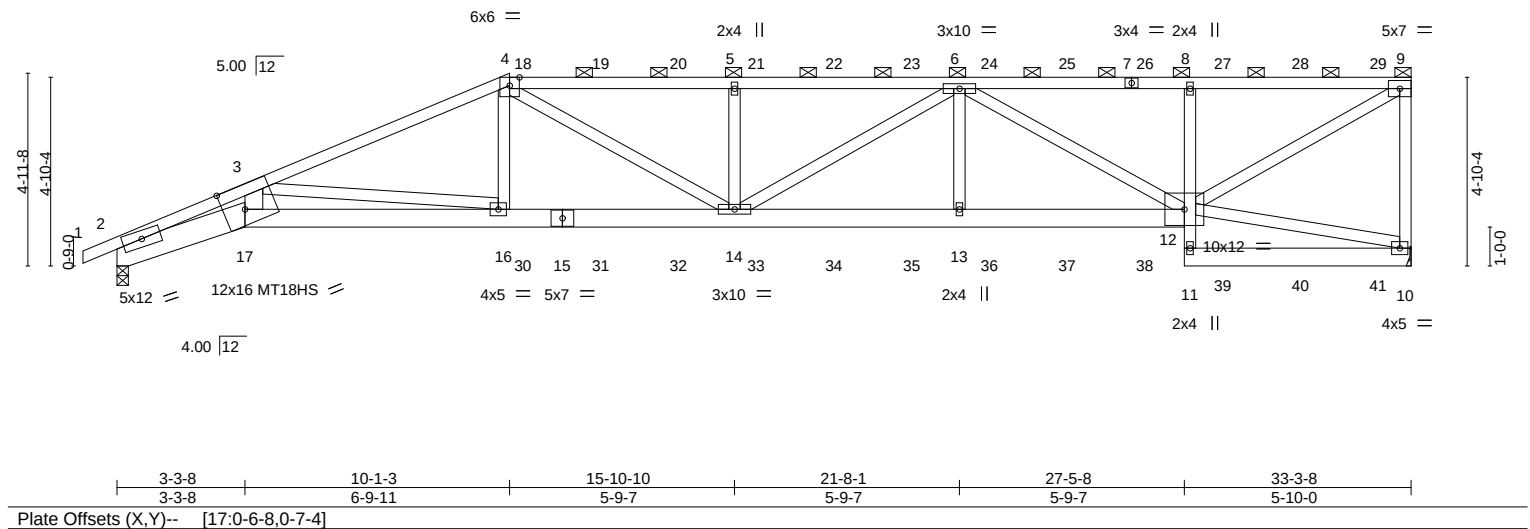
0-10-8 3-3-8 10-1-3 15-10-10 21-8-1 27-5-8 33-3-8

0-10-8 3-3-8 6-9-11 5-9-7 5-9-7 5-9-7 5-10-0

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:29 2020 Page 1

ID:ell3htjhC3ucpFh1ifG0EcZUTUF-o4SKj7ovdQjMK5ouOLNWb2WhT5uSq2lDcyWVUryxDe8

Scale = 1:59.3



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.30 14-16 >999 360	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.53 14-16 >750 240	MT18HS		197/144	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.24 10 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.25 14-16 >999 240	Weight: 369 lb		FT = 10%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 1-4: 2x4 SPF 2100F 1.8E	TOP CHORD	Structural wood sheathing directly applied or 4-7-1 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-4 max.): 4-9.
BOT CHORD	2x6 SP 2400F 2.0E *Except* 2-17: 2x8 SP DSS, 8-11: 2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2 *Except* 3-17: 2x6 SPF No.2		

REACTIONS.	
(size)	10=Mechanical, 2=0-3-8
Max Horz	2=150(LC 7)
Max Uplift	10=-547(LC 5), 2=-490(LC 8)
Max Grav	10=2988(LC 1), 2=2756(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-11442/2216, 3-4=-7079/1513, 4-5=-7281/1512, 5-6=-7278/1511, 6-8=-4026/785, 8-9=-4009/795, 9-10=-2833/620
BOT CHORD	2-17=-2161/10449, 16-17=-1931/9247, 14-16=-1459/6438, 13-14=-1336/6602, 12-13=-1336/6602, 8-12=-655/200
WEBS	3-17=-520/2875, 3-16=-2768/507, 4-16=-358/1582, 4-14=-148/1163, 5-14=-774/266, 6-14=-268/789, 6-13=0/516, 6-12=-2986/612, 9-12=-919/4682

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=547, 2=490.



July 17, 2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020		Ply	Lot 77 RR
400422	B1A	Half Hip Girder			2	I42065388

Wheeler Lumber,

Waverly, KS 66871

8.410 s

May 22 2020

MiTek Industries, Inc.

Fri Jul 17 07:58:29 2020

Page 2

ID:e!!3htjhC3ucpFh1ifG0EczUTUF-o4SKj7ovdQjMK5ouOLNWb2WhT5uSq2IDcyWVUryxDe8

NOTES-

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

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

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 114 lb down and 78 lb up at 10-5-7, 116 lb down and 78 lb up at 12-5-7, 116 lb down and 78 lb up at 14-5-7, 116 lb down and 78 lb up at 16-5-7, 116 lb down and 78 lb up at 18-5-7, 116 lb down and 78 lb up at 20-5-7, 116 lb down and 79 lb up at 22-5-7, 76 lb down and 24 lb up at 24-5-7, 76 lb down and 24 lb up at 26-5-7, 124 lb down and 94 lb up at 28-5-7, and 124 lb down and 94 lb up at 30-5-7, and 129 lb down and 91 lb up at 32-5-7 on top chord, and 706 lb down and 320 lb up at 10-1-3, 71 lb down and 21 lb up at 10-5-7, 71 lb down and 21 lb up at 12-5-7, 71 lb down and 21 lb up at 14-5-7, 71 lb down and 21 lb up at 16-5-7, 71 lb down and 21 lb up at 18-5-7, 71 lb down and 21 lb up at 20-5-7, 91 lb down at 22-5-7, 142 lb down and 73 lb up at 24-5-7, 142 lb down and 73 lb up at 26-5-7, 71 lb down at 28-5-7, and 71 lb down at 30-5-7, and 77 lb down at 32-5-7 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: 1-4=-70, 4-9=-70, 9-12=-70, 12-17=-20, 17-20=-20, 20-21=-20

Concentrated Loads (lb)

Vert: 16=-706(F) 18=-93(F) 19=-93(F) 20=-93(F) 21=-93(F) 22=-93(F) 23=-93(F) 24=-100(F) 25=-24(F) 26=-24(F) 27=-114(F) 28=-114(F) 29=-125(F) 30=-71(F) 31=-71(F) 32=-71(F) 33=-71(F) 34=-71(F) 35=-71(F) 36=-75(F) 37=-142(F) 38=-142(F) 39=-50(F) 40=-50(F) 41=-53(F)

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020			Ply	Lot 77 RR	I42065389
400422	B2A	Half Hip				1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871					8.410 s	May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:30 2020 Page 1		
					ID:ell3htjhC3ucpFh1fG0EcZUTUF-HG?ixToXOkRdxFN4y2ul7F2v2VEnZTrMrcG20lyxDe7			
0-10-8	3-3-8	9-1-14	13-3-10	20-4-9	27-5-8	33-3-8		
0-10-8	3-3-8	5-10-6	4-1-12	7-0-15	7-0-15	5-10-0		

Scale = 1:59.3

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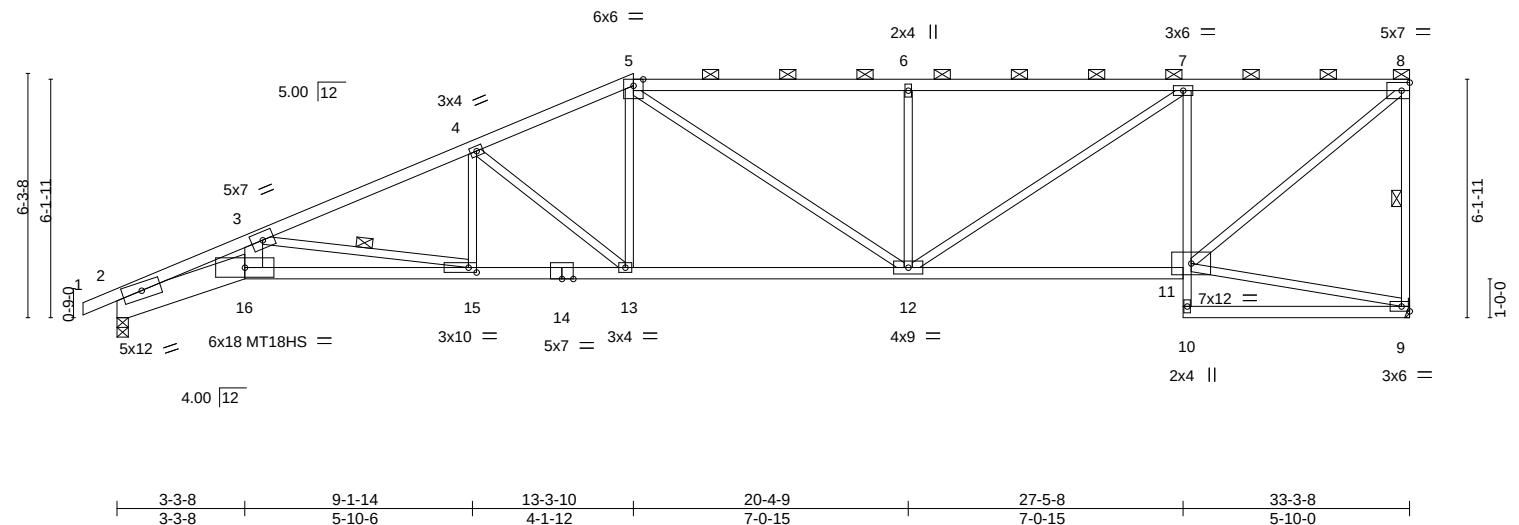


Plate Offsets (X,Y)--		[15:0-2-8,0-1-8]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.76	Vert(LL)	-0.31 15-16	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.77	Vert(CT)	-0.59 15-16	>673	240	MT18HS	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.30 9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.18 15-16	>999	240	Weight: 138 lb	FT = 10%

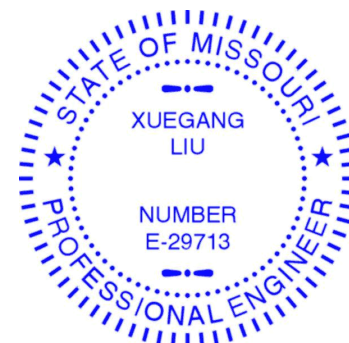
LUMBER-
TOP CHORD 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2 *Except*
2-16: 2x8 SP DSS, 14-16: 2x4 SPF 2100F 1.8E, 7-10: 2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except*
3-16: 2x6 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-9 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-2 max.): 5-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 8-9, 3-15

REACTIONS. (size) 9=Mechanical, 2=0-3-8
Max Horz 2=195(LC 7)
Max Uplift 9=-70(LC 5), 2=-14(LC 8)
Max Grav 9=1486(LC 1), 2=1559(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6322/163, 3-4=-3369/55, 4-5=-2681/77, 5-6=-2493/114, 6-7=-2490/112, 7-8=-1535/98, 8-9=-1429/106
BOT CHORD 2-16=-328/5761, 15-16=-301/5027, 13-15=-170/3074, 12-13=-150/2417, 11-12=-126/1545, 7-11=-1119/141
WEBS 3-16=-38/1822, 5-13=0/613, 5-12=-39/312, 6-12=-565/130, 7-12=-40/1142, 8-11=-118/1988, 4-13=-827/83, 4-15=0/403, 3-15=-1978/132

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 2.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 17, 2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

400422

Truss

B3A

Truss Type

Half Hip

Lot 77 RR

I42065390

Wheeler Lumber,

Waverly, KS 66871

0-10-8

3-3-8

9-1-14

16-6-0

21-11-12

27-5-8

33-3-8

0-10-8

3-3-8

5-10-5

7-4-2

5-5-12

5-5-12

5-10-0

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

8.410 s

May 22 2020

May 22 2020

May 22 2020

May 22 2020

May 22 2020

May 22 2020

Job Reference (optional)

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:31 2020 Page 1

ID:ell3htjhC3ucpFh1fG0EcZUTUF-ITZ48pp991z4ZPyHWmp_gTb3TuWDlu2W4G?cYkxDe6

08/05/2020

Scale = 1:59.3

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.35 15-16 >999 360	MT20	197/144	MT18HS	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.62 15-16 >639 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.30 9 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.18 15-16 >999 240				
								Weight: 147 lb		FT = 10%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF 2100F 1.8E *Except* 5-8: 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-6-6 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-12 max.): 5-8.
BOT CHORD	2x4 SPF No.2 *Except* 2-16: 2x8 SP DSS, 14-16: 2x4 SPF 2100F 1.8E, 7-10: 2x3 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 13-15.
WEBS	2x3 SPF No.2 *Except* 8-9: 2x4 SPF No.2, 3-16: 2x6 SPF No.2	WEBS	1 Row at midpt 7-11 8-9, 3-15, 4-13, 5-12

REACTIONS.		FORCES.	
(size)	9=Mechanical, 2=0-3-8	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
Max Horz	2=240(LC 7)	TOP CHORD	2-3=-6535/151, 3-4=-3556/56, 4-5=-2374/60, 5-6=-1916/91, 6-7=-1914/89, 7-8=-1245/86, 8-9=-1469/107
Max Uplift	9=-68(LC 5), 2=-30(LC 8)	BOT CHORD	2-16=-338/5963, 15-16=-306/5181, 13-15=-168/3266, 12-13=-134/2103, 11-12=-113/1253, 7-11=-1120/129
Max Grav	9=1568(LC 2), 2=1608(LC 2)	WEBS	3-16=-51/1948, 3-15=-1939/139, 4-15=0/534, 4-13=-1262/122, 5-13=0/764, 5-12=-287/52, 6-12=-424/95, 7-12=-30/992, 8-11=-101/1813

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

July 17, 2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek

16023 Swingley Ridge Rd

Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Ply	Lot 77 RR	I42065391
400422	B4A	Half Hip				1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:32 2020 Page 1 ID:ell3htjhC3ucpFh1iG0EcZUTUF-Df7TM9qnlwL5xBZXT4TWDCg8ECluj1Kjflw95AyxDe5					
0-10-8	3-3-8	9-1-13	16-4-4	19-8-6	26-4-3	33-3-8		
0-10-8	3-3-8	5-10-5	7-2-7	3-4-3	6-7-13	6-11-5		

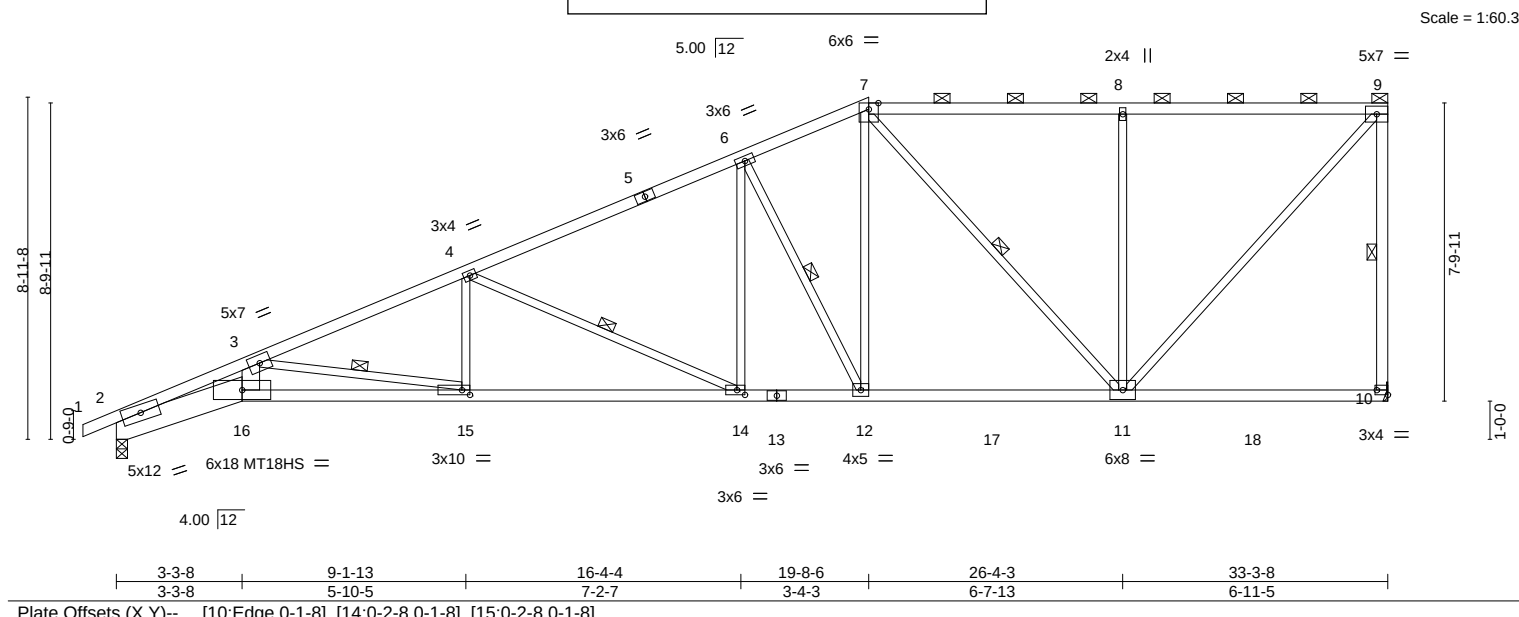


Plate Offsets (X,Y)--		[10:Edge,0-1-8], [14:0-2-8,0-1-8], [15:0-2-8,0-1-8]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.78	Vert(LL)	-0.35 15-16	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.80	Vert(CT)	-0.61 15-16	>647	240	MT18HS	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.79	Horz(CT)	0.26 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.18 15-16	>999	240	Weight: 147 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
1-5: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except*
2-16: 2x8 SP DSS, 13-16: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except*
9-10: 2x4 SPF No.2, 3-16: 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-6-9 oc purlins, except end verticals, and 2-0-0 oc purlins (4-7-7 max.): 7-9.

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

WEBS 1 Row at midpt 9-10, 3-15, 4-14, 6-12, 7-11

REACTIONS. (size) 10=Mechanical, 2=0-3-8
Max Horz 2=271(LC 5)
Max Uplift 10=-66(LC 5), 2=-41(LC 8)
Max Grav 10=1605(LC 2), 2=1606(LC 2)

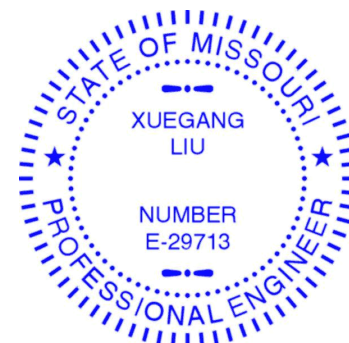
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-6532/248, 3-4=-3552/96, 4-6=-2359/73, 6-7=-1861/84, 7-8=-1198/86, 8-9=-1196/85, 9-10=-1468/94

BOT CHORD 2-16=-327/5961, 15-16=-297/5180, 14-15=-150/3261, 12-14=-119/2097, 11-12=-111/1675

WEBS 3-16=-47/1944, 3-15=-1943/178, 4-15=0/544, 4-14=-1278/117, 6-14=0/684, 6-12=-887/102, 7-12=-37/997, 7-11=-728/50, 8-11=-562/136, 9-11=-72/1758

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 2.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 17, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job: 400422

Truss: B5

Truss Type: Half Hip

Wheeler Lumber, Waverly, KS 66871

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

08/05/2020

Ply: 1

Lot 77 RR

Job Reference (optional)

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:34 2020 Page 1

ID:ell3htjhC3ucpFh1fG0EczUTUF-91FDnrs2SyMeQshrBuzhl5Dac6a3VCJymEEG93yxDe3

0-10-8 3-3-8 9-1-13

0-10-8 3-3-8 5-10-5

16-4-3 22-10-13

7-2-6 6-6-9

27-11-6 33-3-8

5-0-10 5-4-2

Scale = 1:65.1

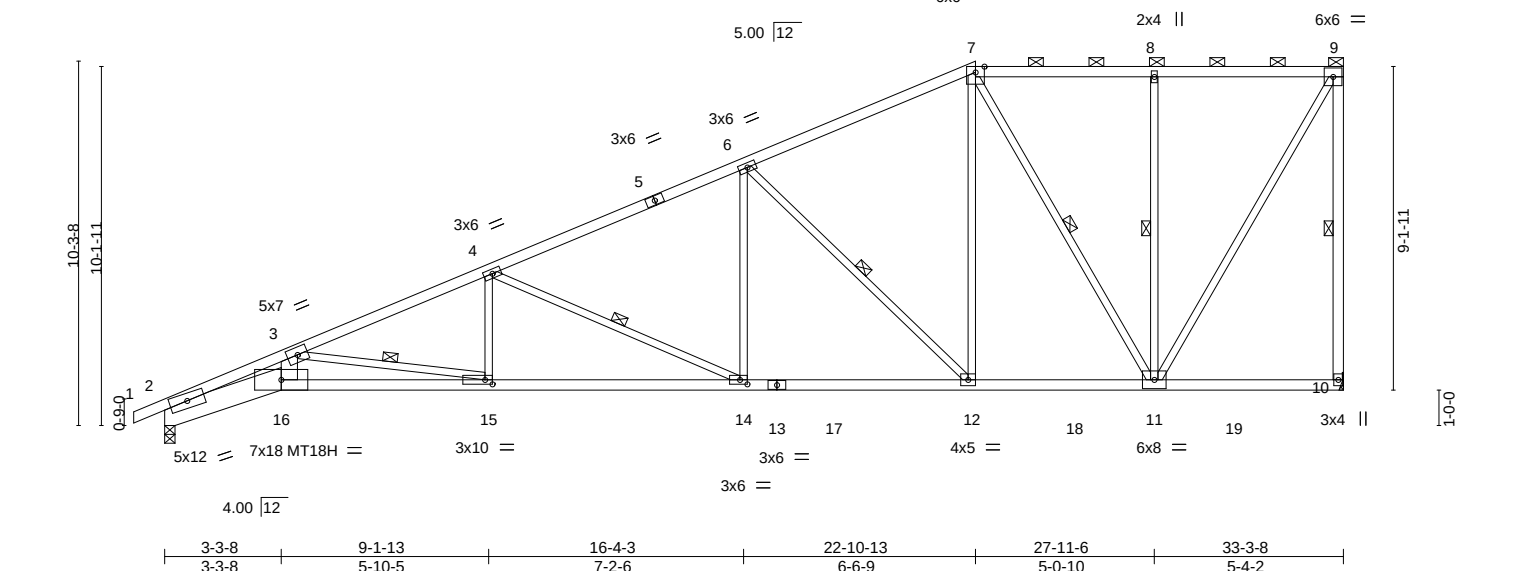
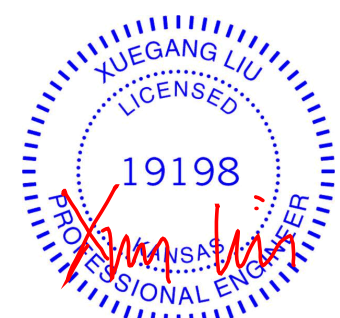


Plate Offsets (X,Y)--		[14:0-2-8,0-1-8], [15:0-2-8,0-1-8]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL 25.0	Plate Grip DOL	1.15	TC 0.79	Vert(LL)	-0.36 15-16	>999	360	MT20	197/144		
TCDL 10.0	Lumber DOL	1.15	BC 0.81	Vert(CT)	-0.63 15-16	>632	240	MT18H	197/144		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.91	Horz(CT)	0.26 10	n/a	n/a				
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.19 15-16	>999	240	Weight: 153 lb FT = 10%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 1-5: 2x4 SPF 2100F 1.8E	TOP CHORD	Structural wood sheathing directly applied or 2-6-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD	2x4 SPF No.2 *Except* 2-16: 2x8 SP DSS, 13-16: 2x4 SPF 2100F 1.8E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2 *Except* 9-10: 2x4 SPF No.2, 3-16: 2x6 SPF No.2	WEBS	1 Row at midpt 9-10, 3-15, 4-14, 6-12, 7-11, 8-11

REACTIONS.	
(size)	10=Mechanical, 2=0-3-8
Max Horz	2=315(LC 5)
Max Uplift	10=-63(LC 5), 2=-48(LC 8)
Max Grav	10=1620(LC 2), 2=1618(LC 2)
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-6600/305, 3-4=-3572/122, 4-6=-2412/96, 6-7=-1482/91, 7-8=-830/85, 8-9=-827/84, 9-10=-1510/80
BOT CHORD	2-16=-398/6025, 15-16=-360/5235, 14-15=-162/3277, 12-14=-117/2152, 11-12=-101/1287
WEBS	3-16=-66/1968, 3-15=-1982/200, 4-15=0/533, 4-14=-1236/117, 6-14=0/781, 6-12=-1188/121, 7-12=-15/1065, 7-11=-949/57, 8-11=-425/108, 9-11=-62/1603

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members, with BC DL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 2.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 17, 2020

			RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI					
Job	Truss	Truss Type	Chord	Ply	Lot 77 RR			
400422	B6	Hip	1	1	I42065393			
Wheeler Lumber,		Waverly, KS 66871		Job Reference (optional)				
				8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:35 2020 Page 1				
-0-10-8		3-3-8		11-6-11		18-9-1		
0-10-8		3-3-8		8-3-3		ID:ell3htjhC3ucpFh1fG0EczUTUF-dEpb_BsgD GUV20F2lbUwqJllQWueHv5?u_phVyxDe2		
						26-1-3		
						30-5-0		
						33-3-8		
						4-3-13		
						2-10-8		

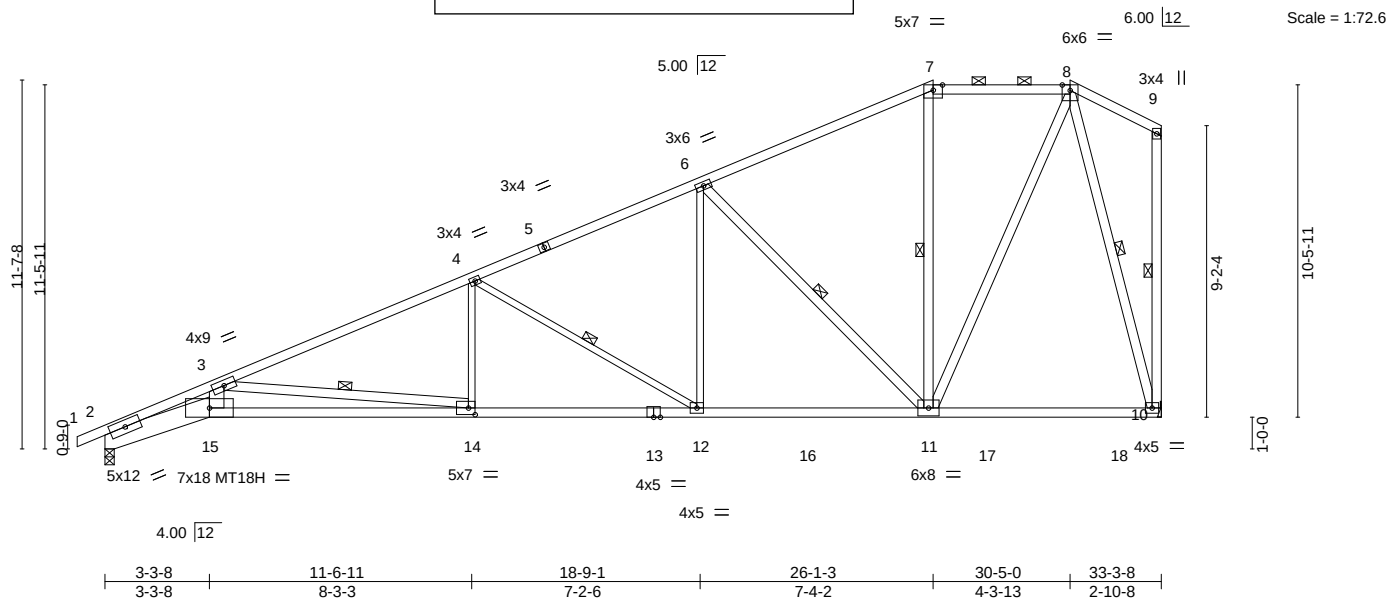


Plate Offsets (X,Y)--	[14:0-2-8,0-2-8]	
LOADING (psf)	SPACING-	2-0-0
TCLL 25.0	Plate Grip DOL	1.15
TCDL 10.0	Lumber DOL	1.15
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code IRC2018/TPI2014	
CSL	DEFL.	in (loc) l/defl L/d
TC 0.78	Vert(LL)	-0.47 14-15 >851 360
BC 0.92	Vert(CT)	-0.84 14-15 >470 240
WB 0.82	Horz(CT)	0.30 10 n/a n/a
Matrix-S	Wind(LL)	0.23 14-15 >999 240
PLATES	GRIP	
MT20		197/144
MT18H		197/144
Weight: 170 lb	FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
1-5: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except*
2-15: 2x8 SP DSS, 13-15: 2x4 SPF 2100F 1.8E

WEBS 2x4 SPF No.2 *Except*
3-15: 2x6 SPF No.2, 4-14,4-12,6-12: 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-7-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 14-15.

WEBS 1 Row at midpt 3-14, 4-12, 6-11, 7-11, 9-10, 8-10

REACTIONS. (size) 2=0-3-8, 10=Mechanical
Max Horz 2=335(LC 5)
Max Uplift 2=-52(LC 8), 10=-30(LC 8)
Max Grav 2=1612(LC 2), 10=1613(LC 2)

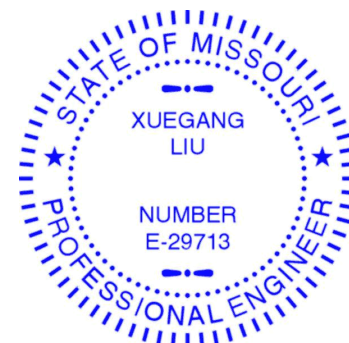
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-6888/375, 3-4=-3171/120, 4-6=-2059/110, 6-7=-1071/100, 7-8=-910/117

BOT CHORD 2-15=-483/6319, 14-15=-447/5479, 12-14=-153/2877, 11-12=-98/1822, 10-11=-75/381

WEBS 3-15=-61/2106, 3-14=-2617/295, 4-14=0/568, 4-12=-1226/117, 6-12=0/883, 6-11=-1295/137, 8-11=-59/1333, 8-10=-1447/86

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 17, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Ply	Lot 77 RR	I42065394
400422	B7	Roof Special				1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871		8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:36 2020 Page 1						
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1-10-8		9-1-15	15-7-8	18-1-12	21-9-8	28-5-7	33-3-8	
1-10-8		9-1-15	6-5-9	0-8-12	5-5-4	6-7-15	4-10-1	

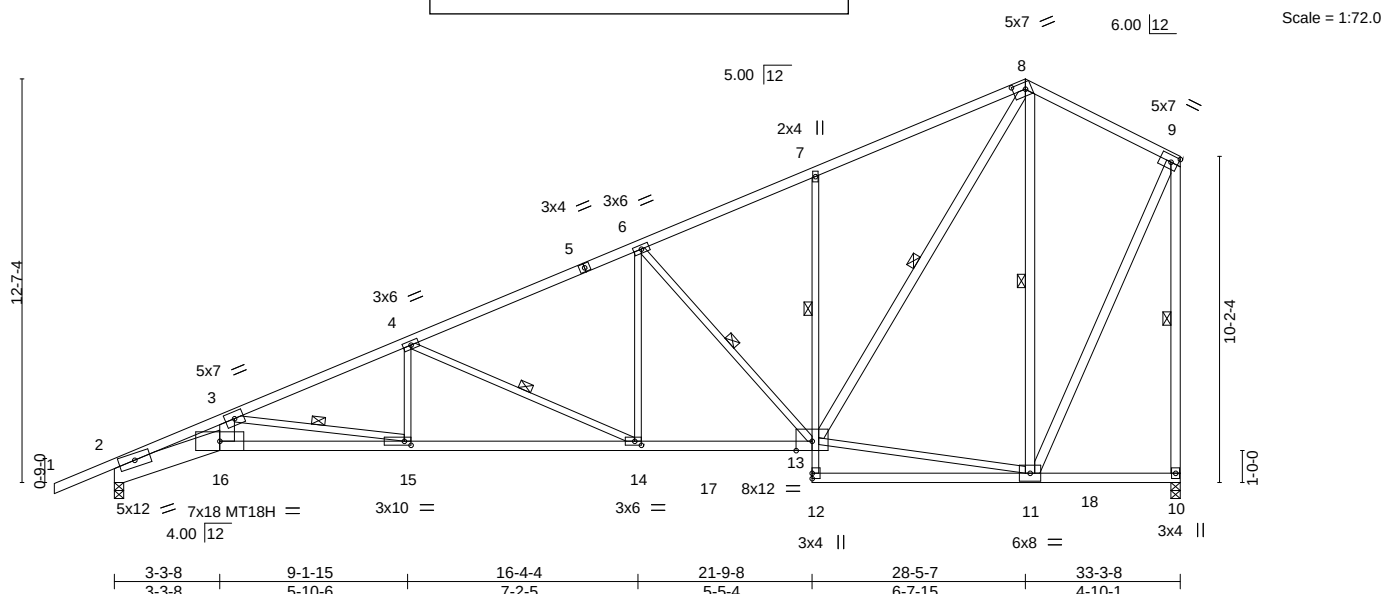


Plate Offsets (X,Y)--		[8:0-4-11,0-2-8], [14:0-2-8,0-1-8], [15:0-2-8,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.81
TCDL 10.0	Lumber DOL	1.15	BC 0.79
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.73
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.34 15-16	>999	360
Vert(CT)	-0.61 15-16	>653	240
Horz(CT)	0.27 10	n/a	n/a
Wind(LL)	0.29 15-16	>999	240
PLATES	GRIP		
MT20	197/144		
MT18H	197/144		
Weight: 179 lb		FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E *Except*
8-9: 2x4 SPF No.2

BOT CHORD 2x4 SPF 2100F 1.8E *Except*
2-16: 2x8 SP DSS, 7-12: 2x3 SPF No.2, 10-12: 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*
3-16: 2x6 SPF No.2, 8-13,9-10,9-11,8-11: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-7-4 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-7-0 oc bracing. Except:

WEBS 1 Row at midpt 7-13
1 Row at midpt 3-15, 6-13, 8-13, 9-10, 4-14, 8-11

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=458(LC 8)
Max Uplift 2=-246(LC 8), 10=-272(LC 8)
Max Grav 2=1663(LC 2), 10=1579(LC 2)

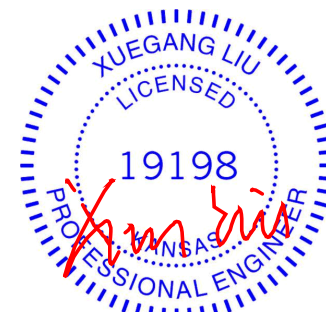
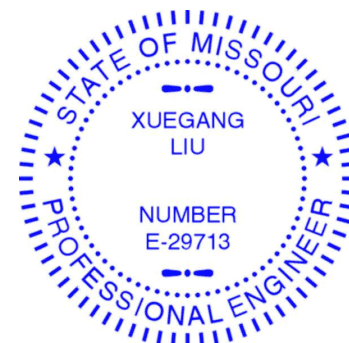
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-6414/1292, 3-4=-3510/538, 4-6=-2355/335, 6-7=-1541/251, 7-8=-1555/370, 8-9=-631/147, 9-10=-1497/289

BOT CHORD 2-16=-1601/5848, 15-16=-1422/5090, 14-15=-816/3221, 13-14=-505/2096, 7-13=-447/228

WEBS 3-16=-422/1892, 3-15=-1892/613, 6-13=-1103/273, 11-13=-106/475, 8-13=-447/1668, 9-11=-231/1231, 4-15=-6/521, 4-14=-1235/342, 6-14=-56/776, 8-11=-996/309

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=246, 10=272.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17, 2020

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

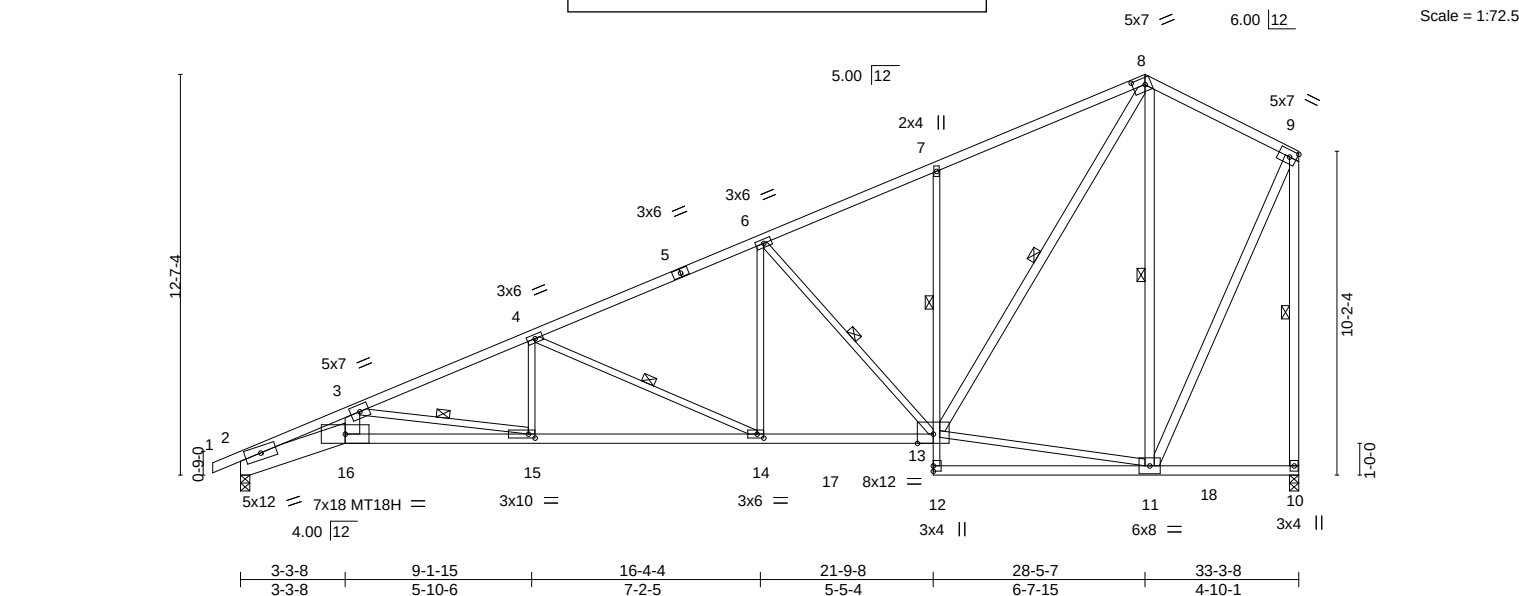
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Ply	Lot 77 RR	I42065395
400422	B8	Roof Special	8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:37 2020 Page 1			1	Job Reference (optional)	
Wheeler Lumber,		Waverly, KS 66871	ID:ell3htjhC3ucpFh1fG0EczUTUF-ZcwMPsuwtkDHKPKQs0WOvkr5_JbuickOSCtWmOyxDe0					
0-10-8 3-3-8 9-1-15 16-4-4 21-9-8 28-5-7 33-3-8		0-10-8 3-3-8 5-10-6 7-2-5 5-5-4 6-7-15 4-10-1	08/05/2026					



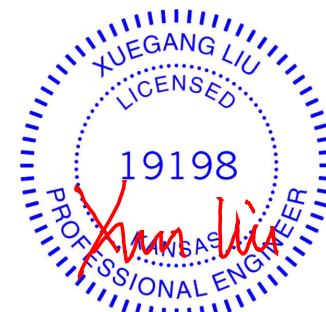
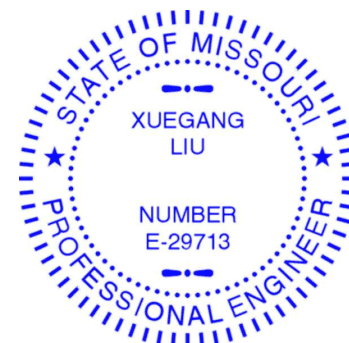
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.78	Vert(LL)	-0.35 15-16	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.80	Vert(CT)	-0.62 15-16	>641	240	MT18H	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.74	Horz(CT)	0.28 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.30 15-16	>999	240	Weight: 178 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 1-5: 2x4 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied or 2-6-10 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2 *Except* 2-16: 2x8 SP DSS, 13-16: 2x4 SPF 2100F 1.8E, 7-12: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-5-15 oc bracing. Except: 1 Row at midpt 7-13
WEBS 2x3 SPF No.2 *Except* 3-16: 2x6 SPF No.2, 8-13, 8-11, 9-10, 9-11: 2x4 SPF No.2	WEBS 1 Row at midpt 3-15, 4-14, 6-13, 8-13, 8-11, 9-10

REACTIONS.	(size) 2=0-3-8, 10=0-3-8 Max Horz 2=444(LC 8) Max Uplift 2=222(LC 8), 10=274(LC 8) Max Grav 2=1603(LC 2), 10=1581(LC 2)
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FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-6527/1341, 3-4=-3533/548, 4-6=-2362/338, 6-7=-1544/252, 7-8=-1560/372, 8-9=-632/147, 9-10=-1500/290
BOT CHORD	2-16=-1651/5957, 15-16=-1459/5175, 14-15=-826/3243, 13-14=-507/2102, 7-13=-449/229
WEBS	3-16=-446/1948, 3-15=-1957/641, 4-15=-10/531, 4-14=-1252/350, 6-14=-59/783, 6-13=-1106/274, 11-13=-107/475, 8-13=-449/1673, 8-11=-999/311, 9-11=-233/1234

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=222, 10=274.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020			Ply	Lot 77 RR	I42065396
400422	B9	Hip	1			1	Job Reference (optional)	
Wheeler Lumber,		Waverly, KS 66871		8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:38 2020 Page 1				
-0-10-8 3-3-8 9-1-15 16-4-4 21-9-8 26-1-3 30-5-0 33-3-8		0-10-8 3-3-8 5-10-6 7-2-5 5-5-4 4-3-11 4-3-13 2-10-8		ID:ell3htjhC3ucpFh1fG0EcZUTUF-2pUkcCvYVBs4vU_dQk1dSxNDdjx8R2FYhsCTlqyxDe?				

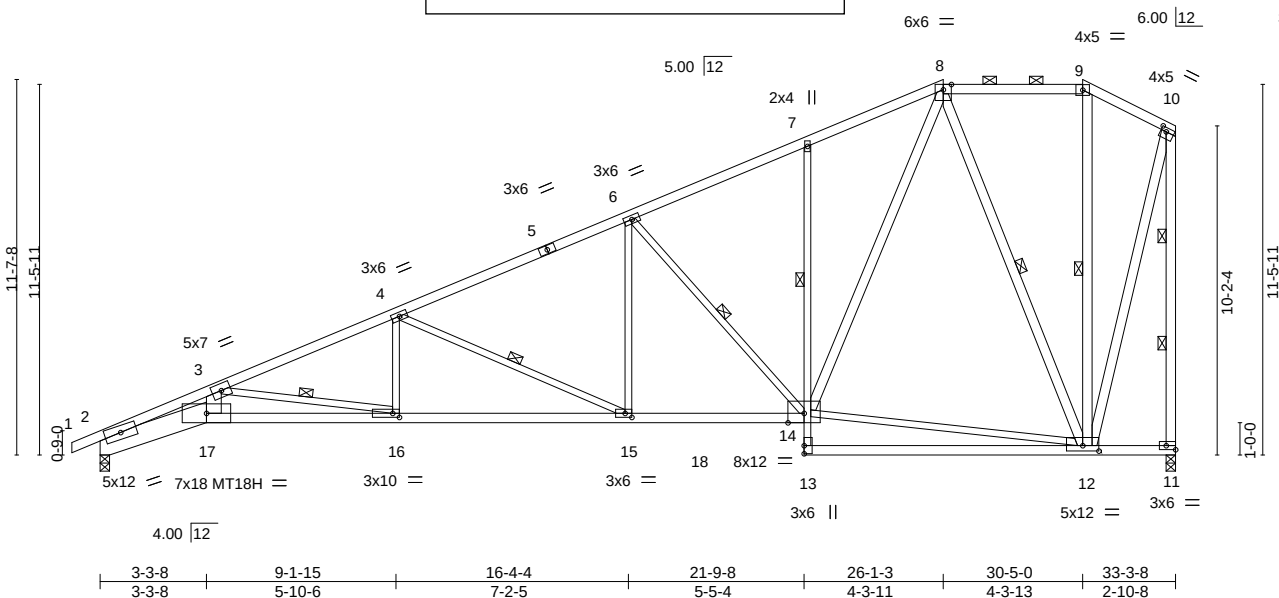


Plate Offsets (X,Y)--		[10:0-2-0,0-1-8], [11:Edge,0-1-8], [12:0-6-0,0-2-0], [15:0-2-8,0-1-8], [16:0-2-8,0-1-8]							
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.35 16-17 >999 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.62 16-17 >643 240	MT18H	197/144
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.28 11 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.27 16-17 >999 240	Weight: 188 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
1-5: 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2 *Except*
2-17: 2x8 SP DSS, 14-17: 2x4 SPF 2100F 1.8E, 7-13: 2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except*
3-17: 2x6 SPF No.2, 8-14, 8-12, 9-12, 10-11, 10-12: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-6-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-9.
BOT CHORD Rigid ceiling directly applied or 7-4-7 oc bracing. Except:
1 Row at midpt 7-14
WEBS 1 Row at midpt 3-16, 4-15, 6-14, 8-12, 9-12
2 Rows at 1/3 pts 10-11

REACTIONS.

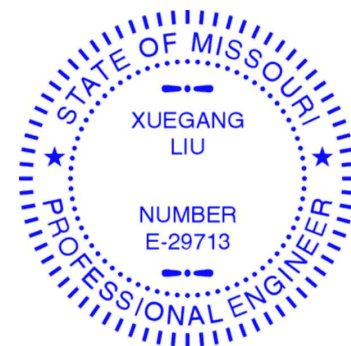
(size) 2=0-3-8, 11=0-3-8
Max Horz 2=453(LC 7)
Max Uplift 2=250(LC 8), 11=204(LC 8)
Max Grav 2=1601(LC 2), 11=1543(LC 2)

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

TOP CHORD 2-3=-6522/1186, 3-4=-3526/568, 4-6=-2360/386, 6-7=-1535/305, 7-8=-1504/387, 8-9=-389/158, 9-10=-478/179, 10-11=-1571/227
BOT CHORD 2-17=-1285/5952, 16-17=-1137/5171, 15-16=-626/3236, 14-15=-335/2101, 7-14=-311/169
WEBS 3-17=-335/1947, 3-16=-1959/517, 4-16=0/531, 4-15=-1246/320, 6-15=-46/782, 6-14=-1126/275, 12-14=-207/669, 8-14=-332/1502, 8-12=-1172/266, 10-12=-142/1382

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=250, 11=204.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 17, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job		Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Ply	Lot 77 RR	I42065397						
400422		B10	Half Hip				1	Job Reference (optional)							
Wheeler Lumber,		Waverly, KS 66871					8.410 s	May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:20 2020 Page 1							
				ID: e1l3hjhC3ucpFh1fG0EczUTUF-ZLPwr2hGlfbdjlc9NyrjPj8eD4ToYDtnuY2rWfytDeH											
-0-10-8		6-9-0		13-11-7		17-10-8		21-9-8		27-11-6		33-3-8			
0-10-8		6-9-0		7-2-7		3-11-1		3-11-0		1-1-5		5-0-10		5-4-2	

Scale = 1:72.7

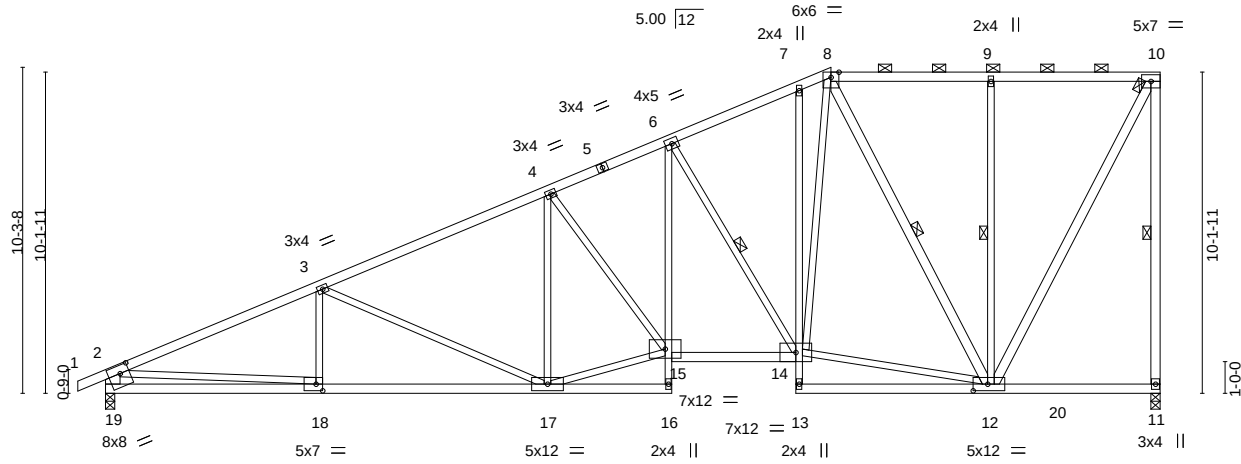


Plate Offsets (X,Y)--		[12:0-5-8,0-2-8], [18:0-2-8,0-2-8], [19:0-3-8,0-3-0]													
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP			
TCLL 25.0		2-0-0		TC 0.66		in (loc)		l/defl		MT20		197/144			
TCDL 10.0		Plate Grip DOL 1.15		BC 0.83		Vert(LL) -0.20 17-18		360							
BCLL 0.0 *		Lumber DOL 1.15		WB 0.91		Vert(CT) -0.38 17-18		>999							
BCDL 10.0		Rep Stress Incr YES		Matrix-S		Horz(CT) 0.11 11		n/a							
		Code IRC2018/TPI2014				Wind(LL) 0.13 17-18		>999		Weight: 181 lb		FT = 10%			

LUMBER-		BRACING-	
TOP CHORD 2x4 SPF No.2		TOP CHORD Structural wood sheathing directly applied or 2-10-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-10.	
BOT CHORD 2x4 SPF No.2 *Except* 6-16,7-13: 2x3 SPF No.2		BOT CHORD Rigid ceiling directly applied or 7-5-3 oc bracing.	
WEBS 2x3 SPF No.2 *Except* 10-11,8-12,10-12: 2x4 SPF No.2, 2-19: 2x6 SPF No.2		WEBS 1 Row at midpt 10-11, 6-14, 8-12, 9-12	

REACTIONS.	
(size) 11=0-3-8, 19=0-3-8	
Max Horz 19=388(LC 8)	
Max Uplift 11=-230(LC 4), 19=-214(LC 8)	
Max Grav 11=1566(LC 2), 19=1589(LC 2)	

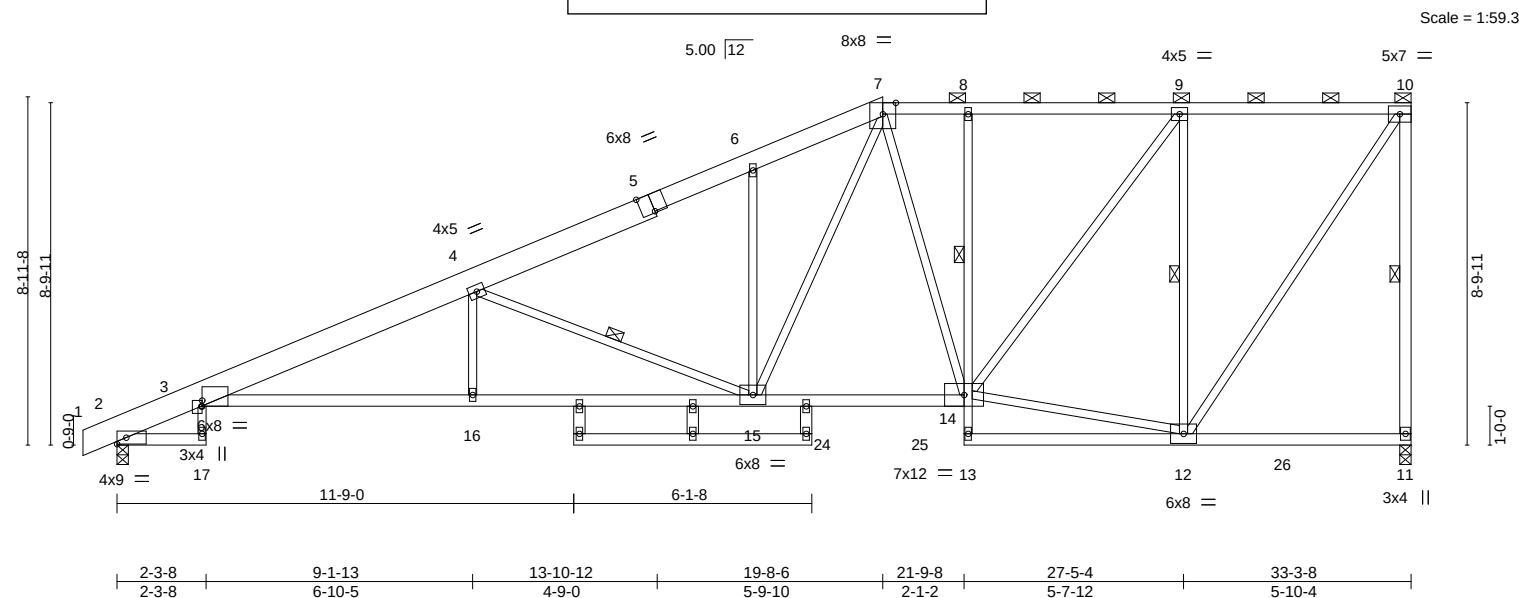
FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-2823/340, 3-4=-2245/276, 4-6=-2089/319, 6-7=-1482/229, 7-8=-1363/256, 8-9=-716/102, 9-10=-718/103, 10-11=-1460/253, 2-19=-1488/248	
BOT CHORD 18-19=-496/648, 17-18=-628/2536, 6-15=-180/956, 14-15=-395/1882	
WEBS 3-17=-590/200, 15-17=-444/2050, 6-14=-1074/281, 12-14=-215/1143, 8-14=-277/1111, 8-12=-1059/263, 9-12=-416/173, 10-12=-217/1512, 2-18=-132/1894	

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=230, 19=214.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 17, 2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI				Ply	Lot 77 RR	I42065398
400422	B11	Half Hip	8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:21 2020 Page 1				1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871		ID:ell3htjhC3ucpFh1iFG0EcZUTUF-1XzI2OhuWzjUMtBMwfEeGMAMvsAYyKG2nia4CJyxDeG							
0-10-8	2-3-8	9-1-13	16-4-5	19-8-6	21-9-8	27-5-4	33-3-8		
0-10-8	2-3-8	6-10-5	7-2-8	3-4-2	2-1-2	5-7-12	5-10-4		



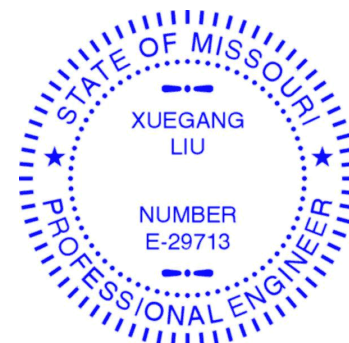
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.79	Vert(LL)	-0.35	3-16	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.65	Vert(CT)	-0.62	3-16	>636		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.33	11	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.25	3-16	>999	Weight: 193 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 2-9-3 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-11 max.): 7-10.
7-10: 2x4 SPF No.2, 1-5: 2x8 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
BOT CHORD 2x4 SPF No.2 *Except*	6-0-0 oc bracing: 2-17.
3-17,8-13: 2x3 SPF No.2, 3-14: 2x4 SPF 2100F 1.8E	1 Row at midpt 8-14
WEBS 2x3 SPF No.2 *Except*	10-11, 4-15, 9-12
10-11,18-20,19-21,22-23: 2x4 SPF No.2	

REACTIONS.	(size) 11=0-3-8, 2=0-3-8
	Max Horz 2=374(LC 5)
	Max Uplift 11=-245(LC 5), 2=-228(LC 8)
	Max Grav 11=1593(LC 2), 2=1608(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-928/20, 3-4=-3744/519, 4-6=-2412/326, 6-7=-2306/405, 7-8=-1559/272, 8-9=-1556/272, 9-10=-904/212, 10-11=-1474/262
BOT CHORD	3-16=-574/3552, 15-16=-572/3551, 14-15=-319/1646, 8-14=-302/129
WEBS	4-16=0/281, 4-15=-1568/382, 7-15=-262/1143, 7-14=-314/129, 12-14=-200/882, 9-14=-169/1097, 9-12=-1286/334, 10-12=-245/1606

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=245, 2=228.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 17, 2020

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400422	Truss B12	Truss Type Half Hip	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	Lot 77 RR I42065399
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:22 2020 Page 1 ID: e1l3htjhC3ucpFh1ifG0EcZUTUF-WkWhFkiWHGrL_0mYUNtoZjWeGVihn6B?MKdklyxDeF		
0-10-8 2-3-8 9-1-13 16-6-0 21-1-0 25-5-8 33-3-8 0-10-8 2-3-8 6-10-5 7-4-4 4-7-0 4-4-8 7-10-0			08/05/2020		

Scale = 1:59.3

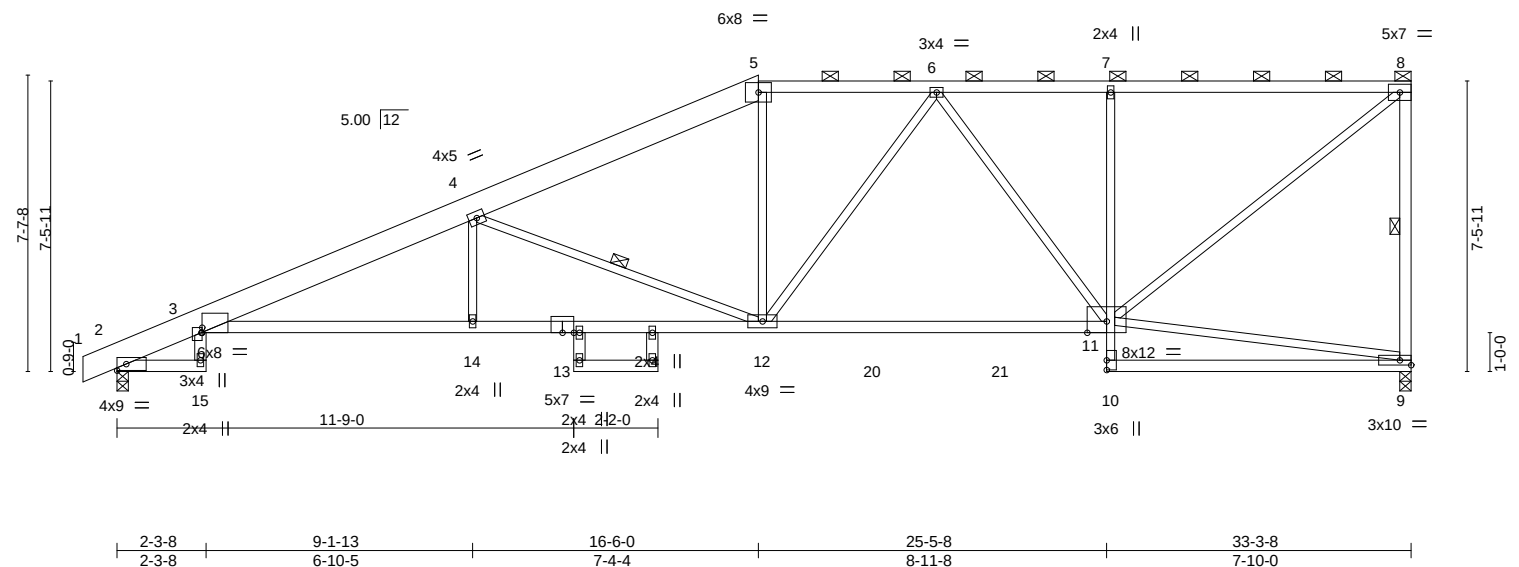


Plate Offsets (X,Y)--		[3:0-0-3,0-0-0], [3:0-1-9,0-0-3]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d
TCLL 25.0		Plate Grip DOL	1.15	TC 0.79		Vert(LL)	-0.36 11-12	>999	360
TCDL 10.0		Lumber DOL	1.15	BC 0.72		Vert(CT)	-0.63 3-14	>632	240
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.92		Horz(CT)	0.33 9	n/a	n/a
BCDL 10.0		Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.23 3-14	>999	240
						PLATES	GRIP		
						MT20	197/144		
						Weight: 173 lb	FT = 10%		

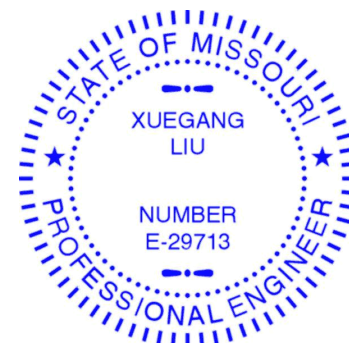
LUMBER-
 TOP CHORD 2x8 SP DSS *Except*
 5-8: 2x4 SPF 2100F 1.8E
 BOT CHORD 2x4 SPF No.2 *Except*
 3-13,11-13: 2x4 SPF 2100F 1.8E, 7-10: 2x3 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 8-9,16-18,17-19: 2x4 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-9-3 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-3 max.): 5-8.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 9-10.
 WEBS 1 Row at midpt 8-9, 4-12

REACTIONS. (size) 9=0-3-8, 2=0-3-8
 Max Horz 2=316(LC 5)
 Max Uplift 9=255(LC 5), 2=210(LC 8)
 Max Grav 9=1557(LC 2), 2=1607(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-899/38, 3-4=-3729/453, 4-5=-2422/318, 5-6=-2142/318, 6-7=-1540/290, 7-8=-1537/293, 8-9=-1429/304
 BOT CHORD 3-14=-556/3537, 12-14=-555/3536, 11-12=-385/1916, 7-11=-505/218
 WEBS 4-14=0/262, 4-12=-1519/385, 5-12=0/616, 6-12=-69/385, 6-11=-641/120, 8-11=-339/1952

- 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=255, 2=210.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 17, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400422	Truss B13	Truss Type Half Hip	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply 1	Lot 77 RR	I42065400
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:23 2020 Page 1 ID:ell3htjhC3ucpFh1ifG0EcZUTUF_w43T4j81azCcALK24G6LnGgxgt8QFRKE03AGCyXDeE				
0-10-8 2-3-8 6-9-1 13-3-10 19-5-13 25-5-8 33-3-8 0-10-8 2-3-8 4-5-9 6-6-9 6-2-3 5-11-11 7-10-0			08/03/2020				

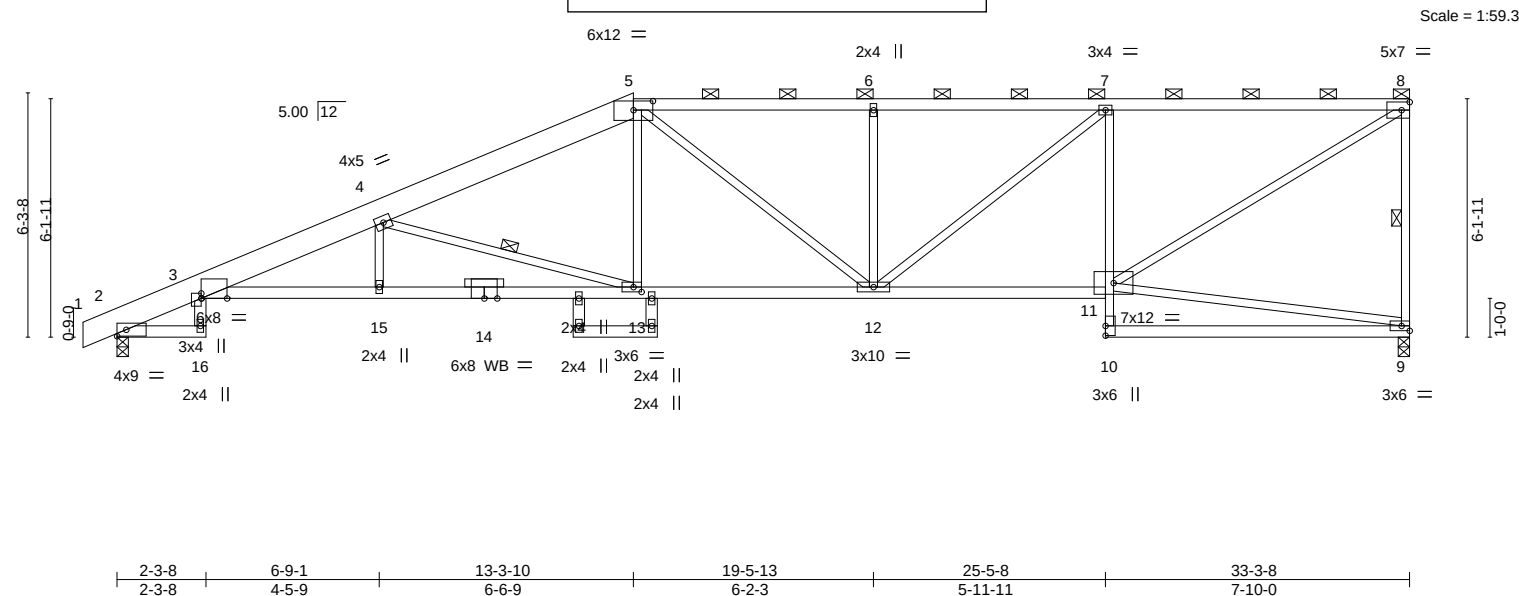


Plate Offsets (X,Y)--		[3:0-1-9,0-0-1], [3:0-7-15,0-0-0], [5:0-6-0,0-2-13], [13:0-2-8,0-1-8]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 25.0		Plate Grip DOL	1.15	TC 0.88		Vert(LL)	-0.27 13-15	>999	360	MT20	197/144
TCDL 10.0		Lumber DOL	1.15	BC 0.58		Vert(CT)	-0.51 13-15	>776	240		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.85		Horz(CT)	0.30 9	n/a	n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.21 13-15	>999	240	Weight: 163 lb	FT = 10%

LUMBER-

TOP CHORD 2x8 SP DSS *Except*
5-8: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except*
3-14,11-14: 2x4 SPF 2100F 1.8E, 7-10: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*
17-19,18-20: 2x4 SPF No.2

OTHERS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-3-5 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-14 max.): 5-8.

BOT CHORD Rigid ceiling directly applied or 9-9-9 oc bracing.

WEBS 1 Row at midpt 8-9, 4-13

REACTIONS. (size) 9=0-3-8, 2=0-3-8
Max Horz 2=258(LC 5)
Max Uplift 9=264(LC 5), 2=184(LC 4)
Max Grav 9=1486(LC 1), 2=1561(LC 1)

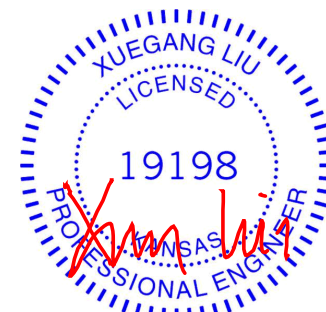
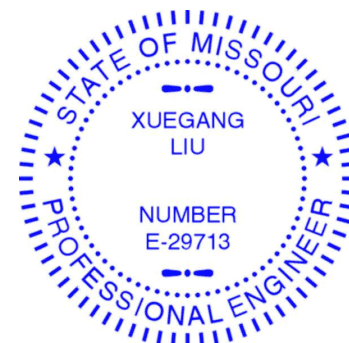
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-768/59, 3-4=-4023/473, 4-5=-2765/405, 5-6=-2508/443, 6-7=-2507/443, 7-8=-1932/381, 8-9=-1406/314

BOT CHORD 3-15=-646/3861, 13-15=-644/3859, 12-13=-459/2478, 11-12=-415/1933, 7-11=-1002/289

WEBS 4-13=-1461/338, 5-13=-26/575, 6-12=-408/173, 7-12=-94/738, 8-11=-433/2248

- 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=264, 2=184.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 17, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/05/2020

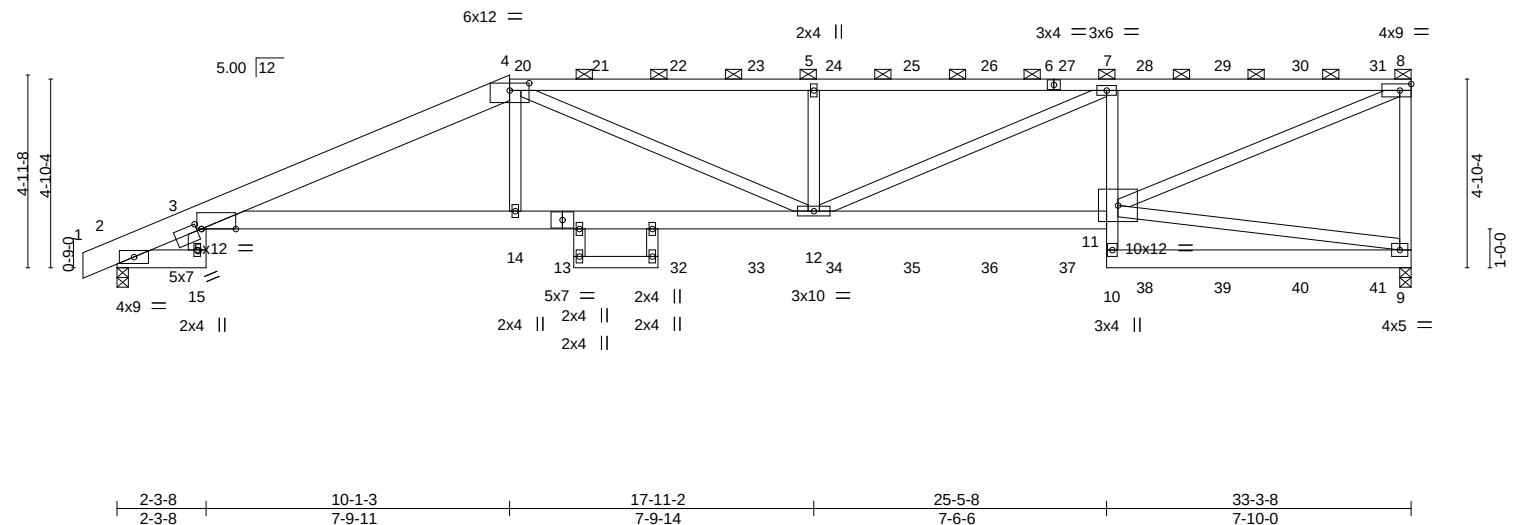
Job 400422	Truss B14	Truss Type Half Hip Girder	Ply 2	Lot 77 RR Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:26 2020 Page 1 ID:ell3htjhC3ucpFh1if60EczUTUF-OVmb56l1KVLnTe3JjCqzpPuD4twAdeLnw_IrtYxDeB
Wheeler Lumber, Waverly, KS 66871				

0-10-8 2-3-8 10-1-3 17-11-2 25-5-8 33-3-8

0-10-8 2-3-8 7-9-11 7-9-14 7-6-6 7-10-0

08/05/2020

Scale = 1:59.3



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	2-0-0	TC	0.76	Vert(LL)	-0.28 12-14 >999	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.50 12-14 >786				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.27 9 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.23 12-14 >999 240				
								Weight: 394 lb		FT = 10%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF 2100F 1.8E *Except* 1-4: 2x8 SP DSS	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-11 max.): 4-8.
BOT CHORD	2x6 SP 2400F 2.0E *Except* 7-10,16-17: 2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-15.
WEBS	2x4 SPF No.2 *Except* 3-15: 2x6 SPF No.2		

REACTIONS.	
(size)	9=0-3-8, 2=0-3-8
Max Horz	2=153(LC 5)
Max Uplift	9=-534(LC 5), 2=-444(LC 8)
Max Grav	9=2945(LC 1), 2=2690(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1386/228, 3-4=-6956/1382, 4-5=-7167/1427, 5-7=-7167/1427, 7-8=-5438/1086, 8-9=-2749/631
BOT CHORD	3-14=-1384/6491, 12-14=-1393/6541, 11-12=-1113/5483, 10-11=0/298, 7-11=-1744/506
WEBS	3-15=-46/299, 4-14=-214/1170, 4-12=-122/733, 5-12=-823/248, 7-12=-403/1859, 8-11=-1172/5835

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=534, 2=444.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 17, 2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020		Ply	Lot 77 RR
400422	B14	Half Hip Girder			2	I42065401

Wheeler Lumber, Waverly, KS 66871

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:26 2020 Page 2

ID:eIl3htjhC3ucpFh1f60EczUTUF-OVmB56l1KVLnTe3JjCqpzPuD4twAdeLnw_IrtXyxDeB

NOTES-

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 115 lb down and 81 lb up at 10-5-7, 111 lb down and 63 lb up at 12-5-7, 111 lb down and 63 lb up at 14-5-7, 111 lb down and 63 lb up at 16-5-7, 111 lb down and 63 lb up at 18-5-7, 111 lb down and 63 lb up at 20-5-7, 111 lb down and 63 lb up at 22-5-7, 111 lb down and 63 lb up at 24-5-7, 124 lb down and 94 lb up at 26-5-7, 124 lb down and 94 lb up at 28-5-7, and 124 lb down and 94 lb up at 30-5-7, and 129 lb down and 91 lb up at 32-5-7 on top chord, and 703 lb down and 311 lb up at 10-1-3, 82 lb down at 10-5-7, 80 lb down and 34 lb up at 14-5-7, 80 lb down and 34 lb up at 16-5-7, 80 lb down and 34 lb up at 18-5-7, 80 lb down and 34 lb up at 20-5-7, 80 lb down and 34 lb up at 22-5-7, 80 lb down and 34 lb up at 24-5-7, 71 lb down at 26-5-7, 71 lb down at 28-5-7, and 71 lb down at 30-5-7, and 77 lb down at 32-5-7 on bottom chord. The design/selecion of such connection device(s) is the responsibility of others.
11) Filler applied to ply: 1(Front)

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 4-8=-70, 2-15=-20, 3-11=-20, 9-10=-20
Concentrated Loads (lb)
Vert: 14=-772(B) 20=-102(B) 21=-81(B) 22=-81(B) 23=-81(B) 24=-81(B) 25=-81(B) 26=-81(B) 27=-81(B) 28=-114(B) 29=-114(B) 30=-114(B) 31=-125(B) 32=-80(B) 33=-80(B) 34=-80(B) 35=-80(B) 36=-80(B) 37=-80(B) 38=-50(B) 39=-50(B) 40=-50(B) 41=-53(B)

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Safety Information
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



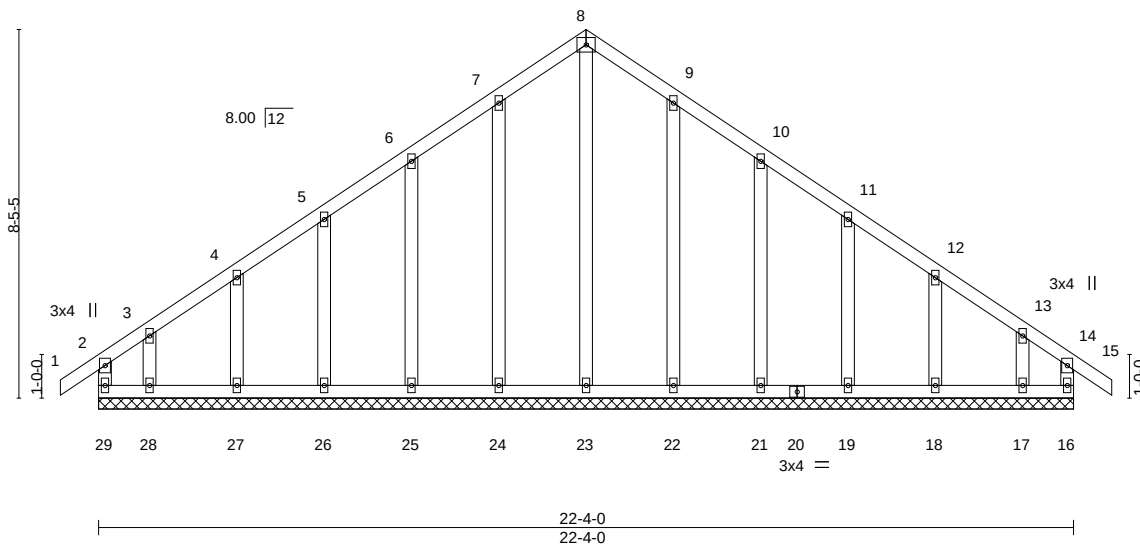
16023 Swingley Ridge Rd

Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/05/2020

Job 400422	Truss C1	Truss Type Common Supported Gable	Ply 1	Lot 77 RR Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:40 2020 Page 1 ID:ell3htjhC3ucpFh1fG0EcZUTUF-_BcU1uwp1o6o8n8?Y945XMTm0Xoyv5Vr8AhaMjyxDdz
Wheeler Lumber, Waverly, KS 66871				
-0-10-8 0-10-8		11-2-0 11-2-0		22-4-0 11-2-0

Scale = 1:52.8



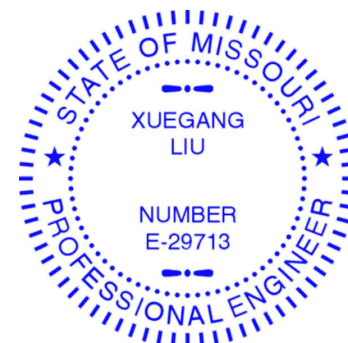
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	-0.00	15	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.00	15	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.22	Horz(CT)	0.00	16	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						Weight: 114 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 end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2	
OTHERS 2x4 SPF No.2	

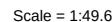
REACTIONS. All bearings 22-4-0.
 (lb) - Max Horz 29=239(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 24, 25, 26, 27, 22, 21, 19, 18 except 29=-151(LC 4), 28=-163(LC 8), 17=-146(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 29, 16, 23, 24, 25, 26, 27, 28, 22, 21, 19, 18, 17

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - 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 will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 24, 25, 26, 27, 22, 21, 19, 18 except (jt=lb) 29=151, 28=163, 17=146.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17,2020



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) 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=136, 8=136.
- 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.



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 BCS Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601.



Job 400422	Truss C3	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Lot 77 RR 142065404
Wheeler Lumber, Waverly, KS 66871			Job Reference (optional)		
0-10-8 0-10-8 6-3-12 6-3-12 14-3-0 7-11-4 21-7-11 7-4-11 28-6-0 6-10-5			8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:42 2020 Page 1		
0-2-0 0-2-0 6-2-0 6-0-0 14-3-0 8-1-0 21-7-11 7-4-11 28-6-0 6-10-5			0-2-0 0-2-0 6-2-0 6-0-0 14-3-0 8-1-0 21-7-11 7-4-11 28-6-0 6-10-5		

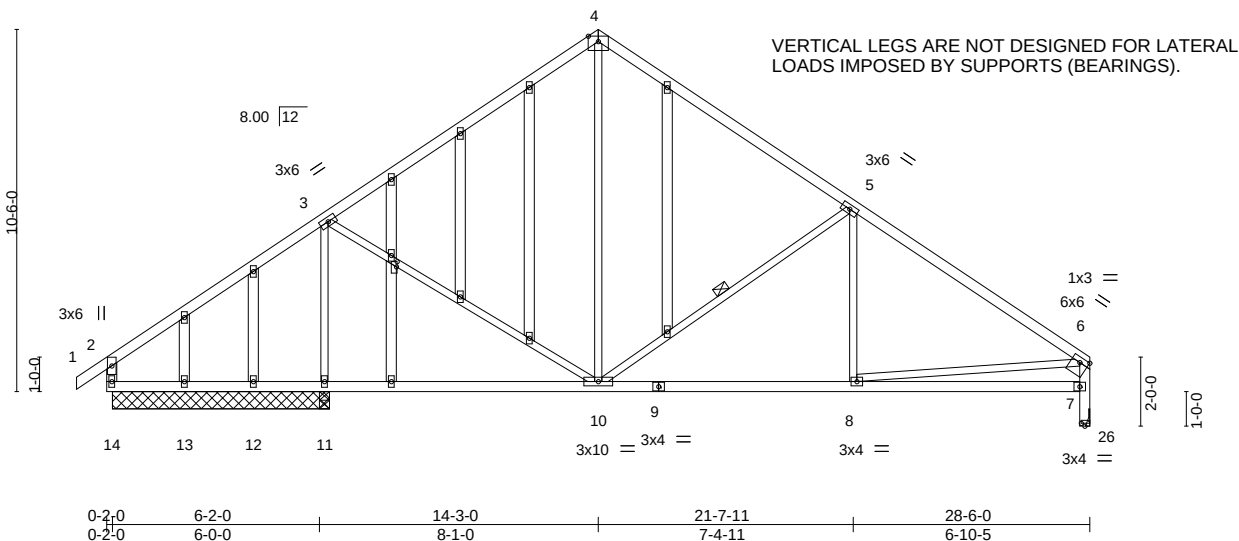


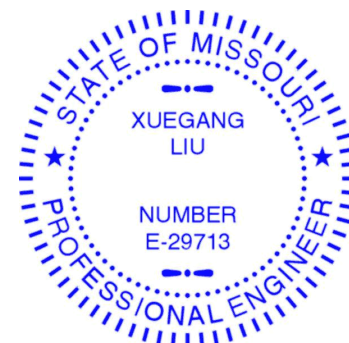
Plate Offsets (X,Y)--		[6:Edge,0-1-12], [19:0-1-13,0-0-4], [26:0-1-4,0-1-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.78
TCDL 10.0	Lumber DOL	1.15	BC 0.47
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.07 10-11 >999 360
			Vert(CT) -0.14 10-11 >999 240
			Horz(CT) 0.01 26 n/a n/a
			Wind(LL) 0.03 8-10 >999 240
			PLATES
			MT20
			GRIP
			197/144
			Weight: 146 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-1-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except*	WEBS 1 Row at midpt 5-10
OTHERS 2-14,6-26: 2x4 SPF No.2	
2x4 SPF No.2	

REACTIONS. All bearings 6-3-8 except (jt=length) 26=Mechanical.
 (lb) - Max Horz 14=320(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 12, 11 except 14=-119(LC 8), 26=-135(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 13 except 14=324(LC 21), 11=1263(LC 1), 11=1263(LC 1), 26=991(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=-796/234, 4-5=-784/224, 5-6=-1268/191, 2-14=-311/149, 7-26=-991/135, 6-7=-927/171
 BOT CHORD 13-14=-262/276, 12-13=-262/276, 11-12=-262/276, 10-11=-262/276, 8-10=-89/962
 WEBS 3-11=-1107/152, 4-10=-76/315, 3-10=0/533, 5-10=-584/261, 6-8=-39/735

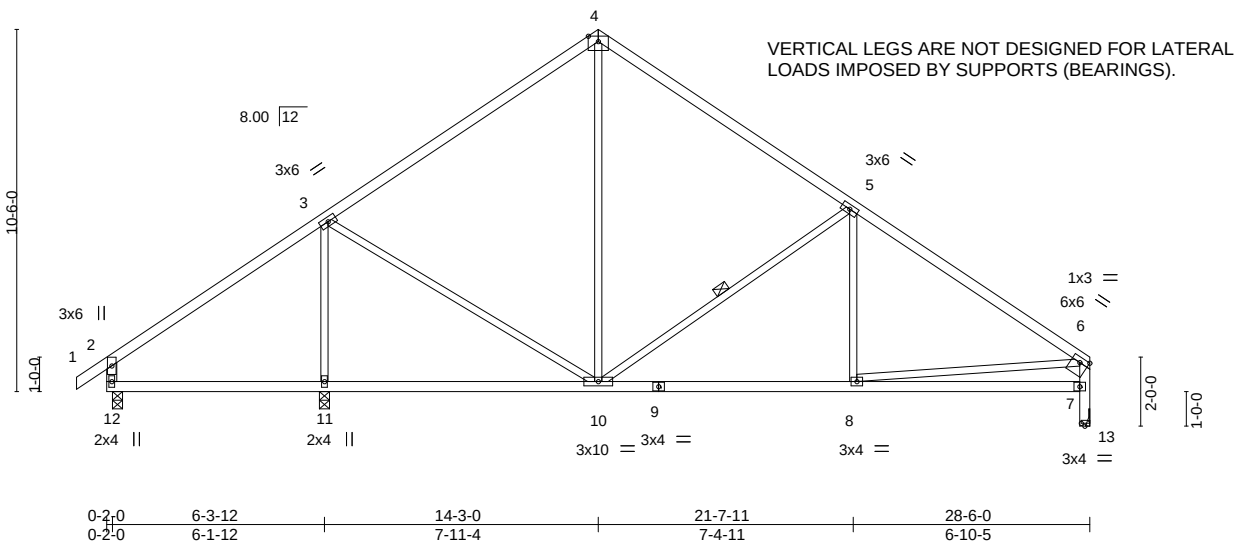
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - 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 will fit between the bottom chord and any other members.
 - 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) 12, 11 except (jt=lb) 14=119, 26=135.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17,2020

Job 400422	Truss C4	Truss Type Roof Special	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply 1	Lot 77 RR 142065405
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:43 2020 Page 1 ID: e1l3htjhC3ucpFh1fG0EcZUTUF-OmlgdwzhKjUN?FtaDHdo9?56WkjZ6MIHq7wEy2yxDdw			
0-10-8 6-3-12 14-3-0 21-7-11 28-6-0 0-10-8 6-3-12 7-11-4 7-4-11 6-10-5			08/05/2020			
			5x7 =			

Scale = 1:66.8



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.06 10-11 >999 360	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.13 10-11 >999 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.01 13 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.03 8-10 >999 240				
								Weight: 111 lb		FT = 10%	

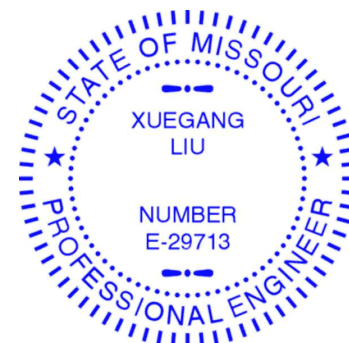
LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-12,6-13: 2x4 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-0-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-10

REACTIONS. (size) 12=0-3-8, 11=0-3-8, 13=Mechanical
 Max Horz 12=320(LC 7)
 Max Uplift 12=-120(LC 8), 11=-59(LC 8), 13=-134(LC 9)
 Max Grav 12=373(LC 21), 11=1240(LC 1), 13=997(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=-805/231, 4-5=-793/226, 5-6=-1277/188, 2-12=-326/153, 7-13=-997/134, 6-7=-933/169
 BOT CHORD 11-12=-267/317, 10-11=-267/317, 8-10=-86/970
 WEBS 3-11=-1083/147, 3-10=-14/521, 4-10=-73/333, 5-10=-584/261, 6-8=-41/742

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 12=120, 13=134.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17, 2020

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

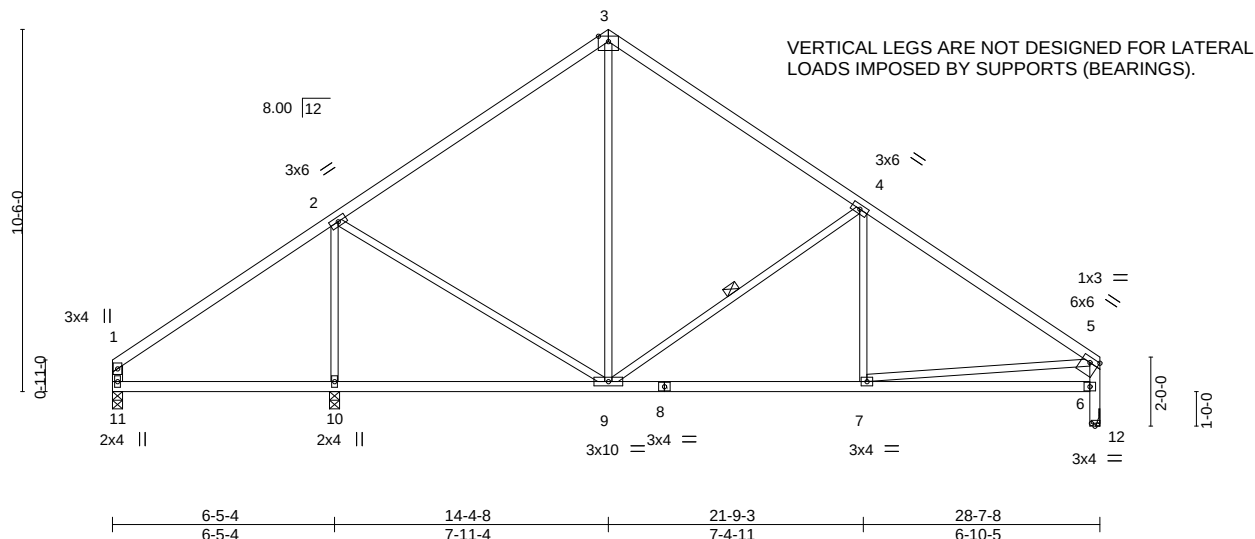
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400422	Truss C5	Truss Type Roof Special	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply 1	Lot 77 RR 142065406
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:44 2020 Page 1 ID:elI3hjhC3ucpFh1ifC0EcZUTUF-szs?IFzJ51cEdPSmn_81hCdH283prouQ3nfoVUyxDdv				
6-5-4 6-5-4		14-4-8 7-11-4		21-9-3 7-4-11		28-7-8 6-10-5
		5x7 =				

Scale = 1:66.8



Job: 400422

Truss: D1

Truss Type: Roof Special

Girder: Ply 1

Lot 77 RR

142065407

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

08/05/2020

Job Reference (optional)

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:46 2020 Page 1

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Wheeler Lumber, Waverly, KS 66871

0-10-8 2-4-6 7-11-15 13-10-6 17-9-12 25-9-0 33-1-11 40-0-0

0-10-8 2-4-6 5-7-10 5-10-7 3-11-6 7-11-4 7-4-11 6-10-5

Scale = 1:77.7

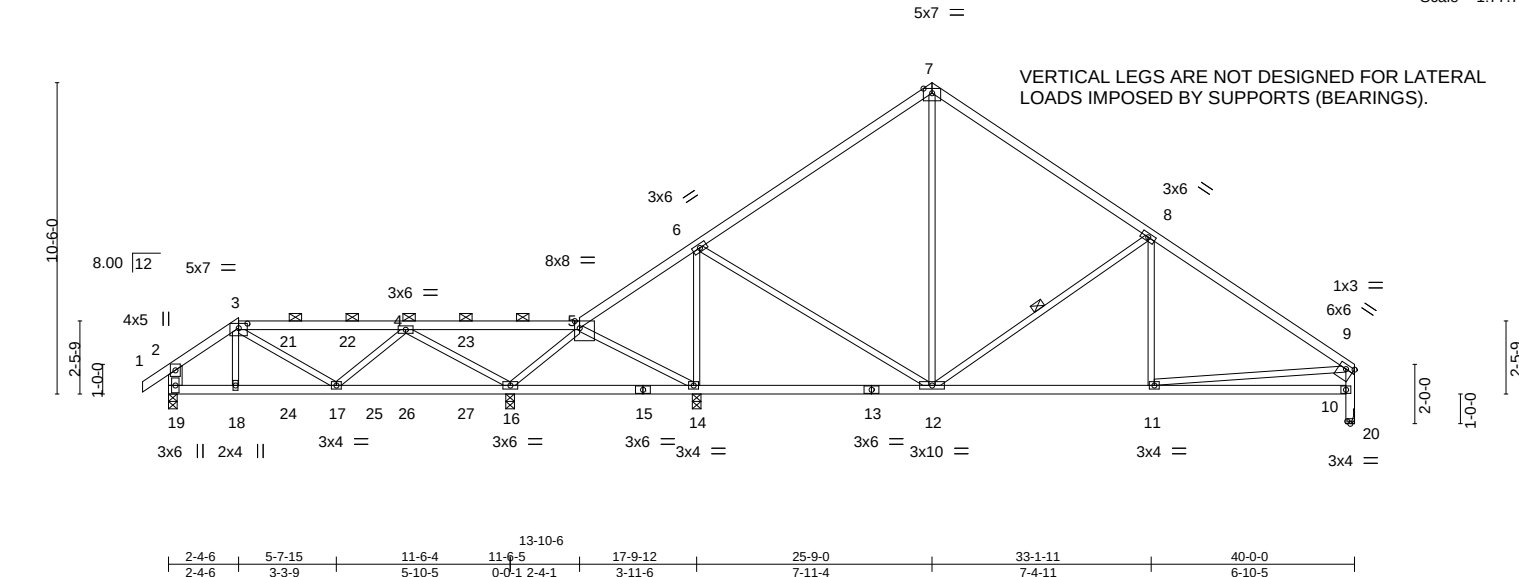


Plate Offsets (X,Y)--		[3:0-3-8,0-1-14], [5:0-2-0,Edge], [9:Edge,0-1-12], [20:0-1-4,0-1-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.87
TCDL 10.0	Lumber DOL	1.15	BC 0.51
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.68
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.07 12-14 >999 360
		Vert(CT)	-0.14 12-14 >999 240
		Horz(CT)	0.02 20 n/a n/a
		Wind(LL)	0.03 11-12 >999 240
		PLATES	MT20
		GRIP	197/144
		Weight: 155 lb	FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-16,12-14.
WEBS	2x3 SPF No.2 *Except*	WEBS	1 Row at midpt 8-12
	2-19: 2x6 SPF No.2, 9-20: 2x4 SPF No.2		

REACTIONS. All bearings 0-3-8 except (it=length) 20=Mechanical.

(lb) - Max Horz 19=320(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) except 19=152(LC 8), 16=-241(LC 4), 14=-260(LC 29), 20=-126(LC 30)

Max Grav All reactions 250 lb or less at joint(s) except 19=600(LC 21), 16=1126(LC 21), 14=1205(LC 1), 20=969(LC 1)

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

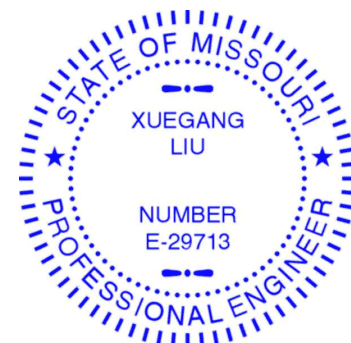
TOP CHORD 2-3=-533/155, 3-4=-556/164, 4-5=-217/530, 6-7=-757/217, 7-8=-747/179, 8-9=-1234/176, 2-19=-470/138, 10-20=-969/126, 9-10=-905/161

BOT CHORD 18-19=-340/500, 17-18=-343/502, 16-17=-328/498, 14-16=-262/184, 11-12=-76/934

WEBS 4-16=-1202/443, 5-16=-515/188, 6-14=-1156/265, 6-12=-6/595, 7-12=-57/290, 8-12=-583/262, 9-11=0/707

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 19, 241 lb uplift at joint 16, 260 lb uplift at joint 14 and 126 lb uplift at joint 20.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 93 lb down and 84 lb up at 2-4-6, 82 lb down and 69 lb up at 4-0-0, 82 lb down and 69 lb up at 6-0-0, and 82 lb down and 69 lb up at 8-0-0, and 82 lb down and 69 lb up at 10-0-0 on top chord, and 29 lb down at 2-4-6, 24 lb down at 4-0-0, 24 lb down at 6-0-0, and 24 lb down at 8-0-0, and 24 lb down at 10-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



July 17, 2020

			RELEASE FOR CONSTRUCTION AS NOTED ON PLANS, REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020					
Job	Truss	Truss Type	Girder	Ply	Lot 77 RR			
400422	D1	Roof Special		1	I42065407			
Wheeler Lumber, Waverly, KS 66871			8.410 s			May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:46 2020 Page 2		
			ID:elI3htjhC3ucpFh1ifG0EczUTUF-pLzIIX?Zdesxsib9uPBVndjcExkUJiqjW58uZMyxDdt			Job Reference (optional)		
LOAD CASE(S) Standard								
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15								

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, 3-5=-70, 5-7=-70, 7-9=-70, 10-19=-20

Concentrated Loads (lb)

Vert: 3=-18(F) 18=-16(F) 4=-32(F) 21=-32(F) 22=-32(F) 23=-32(F) 24=-17(F) 25=-17(F) 26=-17(F) 27=-17(F)

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020			Ply	Lot 77 RR	I42065408
400422	D2	Roof Special				1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:47 2020 Page 1 ID:ell3htjhC3ucpFh1rG0EcZUTUF-HYX8VH0COy_oUsALS7ikJrFoZL5O29xtlluS6pyxDds					
-0-10-8	3-10-6	9-7-6	15-4-6	17-9-12	25-9-0	33-1-11	40-0-0	
0-10-8	3-10-6	5-9-0	5-9-0	2-5-6	7-11-4	7-4-11	6-10-5	

Scale = 1:77.7

VERTICAL LEGS ARE NOT DESIGNED FOR LATERAL LOADS IMPOSED BY SUPPORTS (BEARINGS).

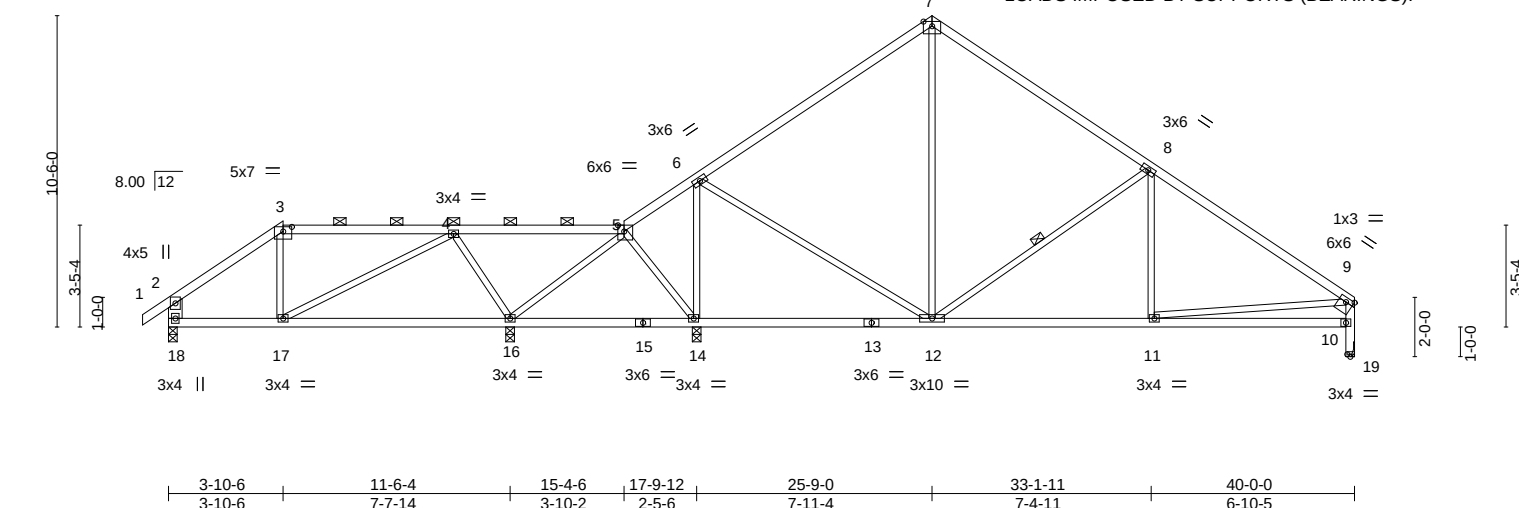


Plate Offsets (X,Y)--		[3:0-3-8,0-1-14], [5:0-2-8,Edge], [9:Edge,0-1-12], [19:0-1-4,0-1-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	2-0-0	TC 0.77	in (loc) l/defl L/d
TCDL 10.0	Plate Grip DOL 1.15	BC 0.47	Vert(LL) -0.08 16-17 >999 360
BCLL 0.0 *	Lumber DOL 1.15	WB 0.69	Vert(CT) -0.17 16-17 >792 240
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 19 n/a n/a
	Code IRC2018/TPI2014		Wind(LL) 0.02 11-12 >999 240
		Weight: 156 lb FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-18: 2x6 SPF No.2, 9-19: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 8-12

REACTIONS.

All bearings 0-3-8 except (it=length) 19=Mechanical.
(lb) - Max Horz 18=258(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 18, 16, 14, 19
Max Grav All reactions 250 lb or less at joint(s) except 18=483(LC 19), 16=1021(LC 19), 14=1197(LC 1), 19=966(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-440/41, 3-4=-295/61, 4-5=0/376, 6-7=-752/117, 7-8=-742/96, 8-9=-1229/51, 2-18=-437/54, 10-19=-966/16, 9-10=-902/52
BOT CHORD 17-18=-172/378, 11-12=0/930
WEBS 4-17=0/328, 4-16=-740/109, 5-16=-374/73, 6-14=-1173/104, 6-12=0/605, 7-12=-16/285, 8-12=-567/137, 9-11=0/703

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 will fit between the bottom chord and any other members.
- 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) 18, 16, 14, 19.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 17, 2020

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

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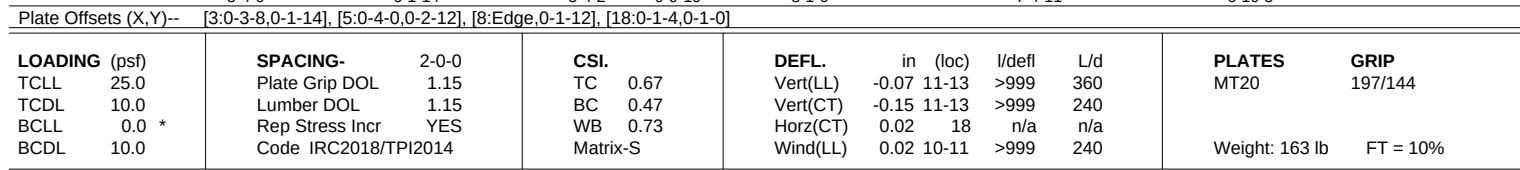


16023 Swingley Ridge Rd
Chesterfield, MO 63017

6x6 =

6

VERTICAL LEGS ARE NOT DESIGNED FOR LATERAL LOADS IMPOSED BY SUPPORTS (BEARINGS).



REACTIONS. All bearings 0-3-8 except (jt=length) 18=Mechanical.
 (lb) - Max Horz 17=257(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 17, 15, 13, 18
 Max Grav All reactions 250 lb or less at joint(s) except 17=498(LC 19), 15=1086(LC 1), 13=1067(LC 1), 18=998(LC 1)

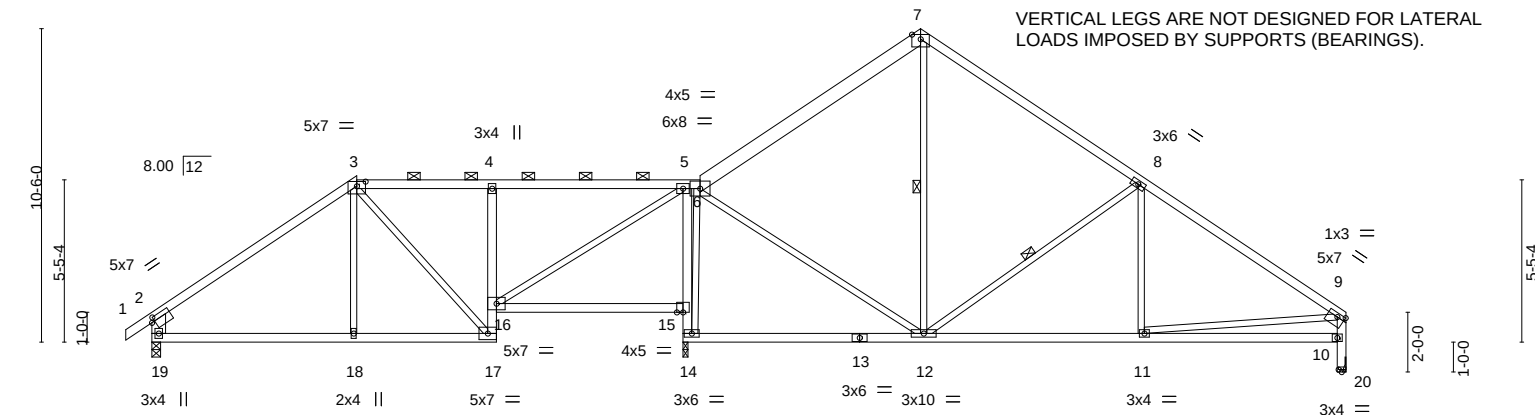
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-417/83, 5-6=-821/122, 6-7=-801/107, 7-8=-1277/60, 2-17=-447/90, 9-18=-998/23, 8-9=-934/59
 BOT CHORD 16-17=-193/371, 15-16=-195/368, 10-11=0/969
 WEBS 3-15=-529/0, 4-15=-436/123, 5-15=-372/65, 5-11=0/723, 6-11=-14/300, 7-11=-552/133, 8-10=0/739, 5-13=-945/136

-
- STATE OF MISSOURI
XUEGANG LIU
NUMBER
E-29713
- KANSAS
XUEGANG LIU
19198
PROFESSIONAL ENGINEER

July 17, 2020

			RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020					
Job	Truss	Truss Type	On Ply			Lot 77 RR		
400422	D4	Roof Special	11			I42065410		
Wheeler Lumber, Waverly, KS 66871			Job Reference (optional)					
			8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:49 2020 Page 1					
			ID:ell3hthC3ucpFh1ifG0EdzUTUF-Dwfuwz1SwZEWjAKkZYkCOGLAZ9kYW5o9D3NZAhxYDdq					
-0-10-8	6-10-6	11-6-8	17-9-8	18-4-6	25-9-0	33-1-11	40-0-0	
0-10-8	6-10-6	4-8-2	6-3-0	0-6-14	7-4-10	7-4-11	6-10-5	

Scale = 1:77.2



	6-10-6	11-6-8	17-9-8	17-10-8	25-9-0	33-1-11	40-0-0	
	6-10-6	4-8-2	6-3-0	0-1-0	7-10-8	7-4-11	6-10-5	
Plate Offsets (X,Y)--	[2:0-1-5,0-1-12], [3:0-3-8,0-1-14], [9:0-3-0,0-1-8], [20:0-1-4,0-1-0]							

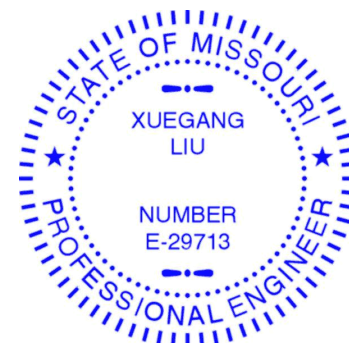
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.68	Vert(LL)	-0.11 12-14	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.22 12-14	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.47	Horz(CT)	0.04 20	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.04 17-18	>999	240	Weight: 171 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 6-7: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-7-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-6.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 4-5-15 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-19: 2x6 SPF No.2, 9-20: 2x4 SPF No.2	WEBS 1 Row at midpt 7-12, 8-12

REACTIONS. (size) 19=0-3-8, 14=0-2-0 (req. 0-3-1), 20=Mechanical
Max Horz 19=257(LC 7)
Max Uplift 19=-47(LC 8), 14=-21(LC 8), 20=-44(LC 9)
Max Grav 19=781(LC 19), 14=1961(LC 1), 20=906(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-786/73, 3-4=-477/131, 4-5=-564/110, 5-6=-87/316, 6-7=-655/161, 7-8=-649/141,
8-9=-1135/94, 2-19=-702/95, 10-20=-906/44, 9-10=-840/80
BOT CHORD 18-19=-100/538, 17-18=-102/536, 4-16=-387/119, 15-16=-326/6, 14-15=-1200/63,
5-15=-1104/106, 11-12=-17/852
WEBS 5-16=-46/1041, 6-14=-737/70, 6-12=0/771, 8-12=-560/132, 9-11=0/628

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members.
 - WARNING: Required bearing size at joint(s) 14 greater than input bearing size.
 - 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) 19, 14, 20.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 17, 2020

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

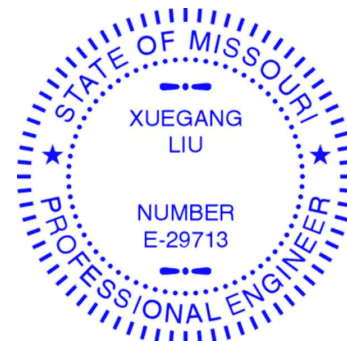
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS, REVIEW DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

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LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-7-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-6-1 oc bracing.
WEBS	2x3 SPF No.2 *Except*	WEBS	1 Row at midpt 9-13
	2-20: 2x8 SP DSS, 10-21: 2x4 SPF No.2		

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-847/67, 3-4=-730/162, 4-5=-448/122, 5-6=-490/112, 6-7=-83/377, 7-8=-708/176,
8-9=-713/151, 9-10=-1247/102, 2-20=-688/77, 11-21=-1022/50, 10-11=-911/85
BOT CHORD 19-20=-108/686, 18-19=-84/501, 17-18=-27/315, 5-17=-361/100, 16-17=-319/8,
15-16=-1069/56, 6-16=-951/94, 12-13=-25/910
WEBS 6-17=-45/989, 7-15=-958/9, 7-13=0/642, 8-13=-85/284, 9-13=-650/134, 10-12=0/687,
4-19=-79/427

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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, with BCDL = 10.0psf.
- 6) WARNING: Required bearing size at joint(s) 15 greater than input bearing size.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 15, 21.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 17, 2020

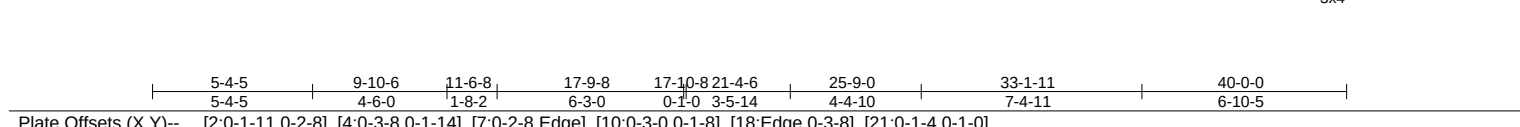


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VERTICAL LEGS ARE NOT DESIGNED FOR LATERAL LOADS IMPOSED BY SUPPORTS (BEARINGS).



LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-7-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.
BOT CHORD	2x4 SPF No.2 *Except*	BOT CHORD	
	5-18,6-15: 2x3 SPF No.2		Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS	2x3 SPF No.2 *Except*		6-0-0 oc bracing: 16-17
	2-20: 2x8 SP DSS, 10-21: 2x4 SPF No.2		1-11-14 oc bracing: 15-16.
			1 Row at midpt 6-16
		WEBS	1 Row at midpt 7-15, 9-13

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

TOP CHORD 2-3=-866/73, 3-4=-778/189, 4-5=-401/132, 5-6=-416/127, 6-7=-97/359, 7-8=-684/196,
 8-9=-736/167, 9-10=-1265/118, 2-20=-679/80, 11-21=-1035/60, 10-11=-922/95

BOT CHORD 19-20=-98/700, 18-19=-64/425, 17-18=-41/395, 5-17=-325/117, 16-17=-273/10,
 15-16=-1136/76, 6-16=-978/113, 12-13=-37/925

WEBS 6-17=-44/923, 7-15=-973/0, 3-19=-278/157, 4-19=-98/519, 7-13=0/537, 8-13=-109/338,
 9-13=-646/134, 10-12=0/701

STATE OF MISSOURI
XUEGANG LIU
NUMBER
E-29713
PROFESSIONAL ENGINEER

XUEGANG LIU
LICENSED
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PROFESSIONAL ENGINEER

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

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Job		Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Ply	Lot 77 RR		I42065413
400422		D7	Roof Special	8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:54 2020 Page 1			1	Job Reference (optional)		
Wheeler Lumber,		Waverly, KS 66871		ID:ell3htjhC3ucpFh1fG0EcZUTUF-auSnzg5bk6tpqxChM5KN5J20SARuBH3uML4JrvyxDdl						
-0-10-8	5-4-4	11-4-6	17-9-8	23-10-6	25-9-0	33-1-10	40-0-0			
0-10-8	5-4-4	6-0-1	6-5-2	5-0-14	2-10-10	7-4-10	6-10-6			
Scale = 1:77.2										

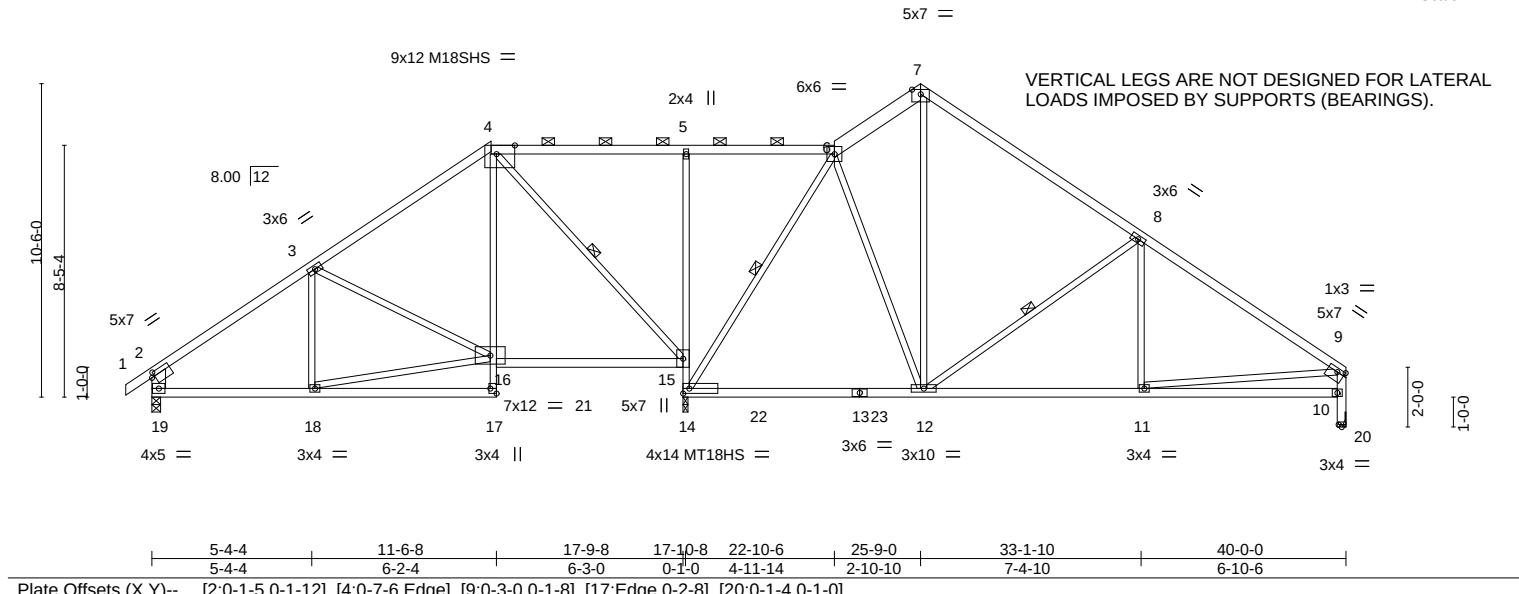


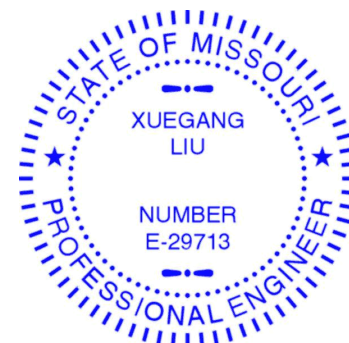
Plate Offsets (X, Y)--		[2:0-1-5,0-1-12], [4:0-7-6,Edge], [9:0-3-0,0-1-8], [17:Edge,0-2-8], [20:0-1-4,0-1-0]
LOADING (psf)	SPACING-	2-0-0
TCLL 25.0	Plate Grip DOL	1.15
TCDL 10.0	Lumber DOL	1.15
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code IRC2018/TPI2014	
CSI.	DEFL.	in (loc) l/defl L/d
TC 0.67	Vert(LL)	-0.21 12-14 >999 360
BC 0.67	Vert(CT)	-0.33 12-14 >788 240
WB 0.79	Horz(CT)	-0.06 14 n/a n/a
Matrix-S	Wind(LL)	0.03 17-18 >999 240
PLATES	GRIP	
MT20		197/144
M18SHS		197/144
MT18HS		197/144
Weight: 178 lb	FT = 10%	

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 6-7: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-6-6 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 4-6.
BOT CHORD 2x4 SPF No.2 *Except* 4-17,5-14: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 17-18 3-6-14 oc bracing: 14-15.
WEBS 2x3 SPF No.2 *Except* 2-19: 2x6 SPF No.2, 9-20: 2x4 SPF No.2	WEBS 1 Row at midpt 4-15, 6-14, 8-12

REACTIONS.	(size) 19=0-3-8, 14=0-2-0 (req. 0-3-4), 20=Mechanical Max Horz 19=257(LC 7) Max Uplift 19=-53(LC 8), 14=-11(LC 8), 20=-54(LC 9) Max Grav 19=832(LC 13), 14=2055(LC 2), 20=1063(LC 14)
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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-917/81, 3-4=-594/126, 6-7=-715/187, 7-8=-791/158, 8-9=-1307/109, 2-19=-714/80, 10-20=-1063/54, 9-10=-949/90
BOT CHORD 18-19=-107/784, 4-16=0/560, 15-16=-69/476, 14-15=-1111/86, 5-15=-470/117, 12-14=0/355, 11-12=-29/958
WEBS 16-18=-107/780, 3-16=-357/89, 4-15=-890/43, 6-14=-952/0, 6-12=0/380, 7-12=-98/412, 8-12=-628/131, 9-11=0/728

- 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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * 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, with BCDL = 10.0psf.
 - 7) WARNING: Required bearing size at joint(s) 14 greater than input bearing size.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 14, 20.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



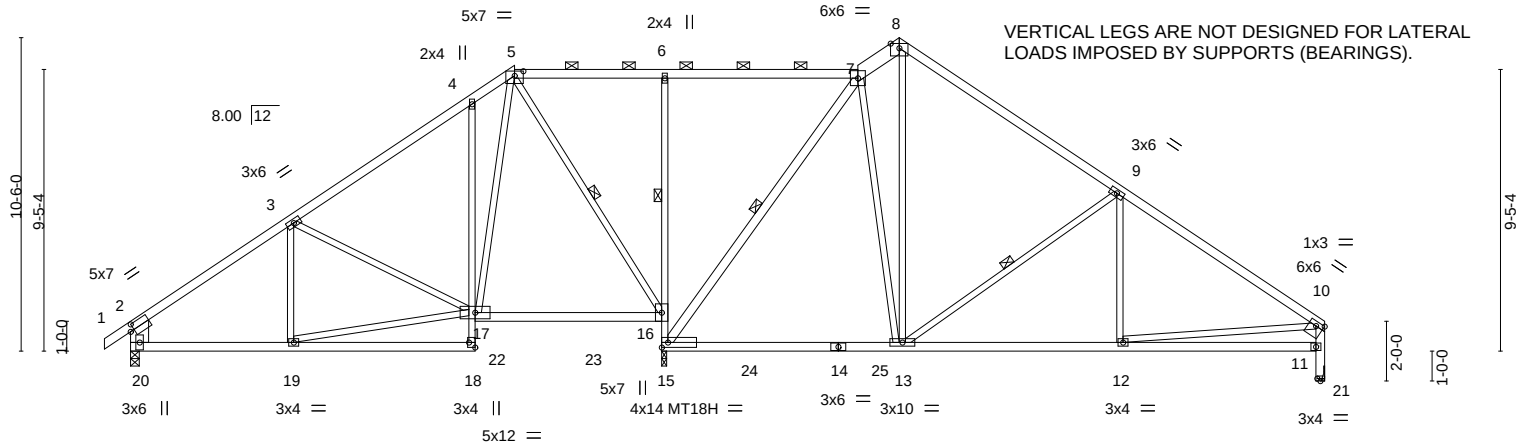
July 17, 2020

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Chesterfield, MO 63017

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	5-4-5	11-6-8	12-10-6	17-9-8	17-10-8	24-4-6	25-9-0	33-1-11	40-0-0		
Plate Offsets (X,Y)--	5-4-5	6-2-3	1-3-14	4-11-2	0-1-0	6-5-14	1-4-10	7-4-11	6-10-5		
	[2:0-1-11,0-2-8], [5:0-3-8,0-1-14], [10:Edge,0-1-12], [18:Edge,0-2-8], [21:0-1-4,0-1-0]										
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	0.66	Vert(LL)	-0.21 13-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.33 13-15	>788	240	MT18H	197/144
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(CT)	-0.07 15	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.03 18-19	>999	240	Weight: 191 lb	FT = 10%

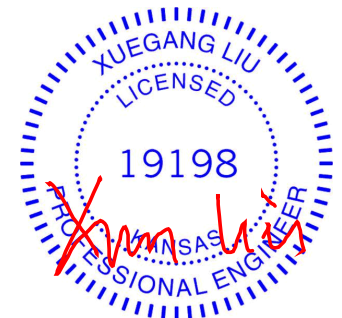
TOP CHORD	2x4 SPF No.2 *Except*
	7-8: 2x6 SPF No.2
BOT CHORD	2x4 SPF No.2 *Except*
	4-18,6-15: 2x3 SPF No.2
WEBS	2x3 SPF No.2 *Except*
	7-15,10-21: 2x4 SPF No.2, 2-20: 2x8 SP DSS

(size) 20=0-3-8, 15=0-2-0 (req. 0-3-5), 21=Mechanical
 Max Horz 20=257(LC 7)
 Max Uplift 20=-58(LC 8), 15=-3(LC 8), 21=-61(LC 9)
 Max Grav 20=817(LC 13), 15=2099(LC 2), 21=1052(LC 14)

TOP CHORD 2-3=-873/86, 3-4=-547/134, 4-5=-486/210, 7-8=-665/193, 8-9=-773/169,
9-10=-1289/119, 2-20=-700/84, 11-21=-1052/61, 10-11=-938/97
BOT CHORD 19-20=-108/750, 4-17=-360/128, 16-17=-62/278, 15-16=-1160/91, 6-16=-473/110,
13-15=0/402, 12-13=-38/944
WEBS 17-19=-108/741, 3-17=-359/84, 5-17=-108/898, 5-16=-822/40, 7-15=-997/0,
8-13=-108/428, 9-13=-628/129, 10-12=-0/714, 7-13=0/375

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDD=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * 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, with BCDL = 10.0psf.
- 7) WARNING: Required bearing size at joint(s) 15 greater than input bearing size.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 15, 21.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

TOP CHORD	Structural wood sheathing directly applied or 4-7-3 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 5-7.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 18-19 3-3-3 oc bracing: 15-16.	
	1 Row at midpt	6-16
WEBS	1 Row at midpt	5-16, 7-15, 9-13



July 17, 2020



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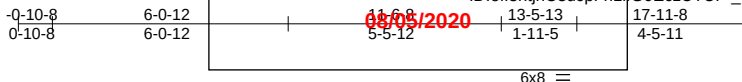


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Release for Construction AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply	Lot 77 RR
400422	D9	HALF HIP GIRDER		3	I42065415

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional)
8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:57 2020 Page 1
ID:ell3htjhC3ucpFh1fG0EczUTUF_T8vci7T11FNhPxG1Dt4jygcFNUZOhjL2JJ_SEyxDdi



Scale = 1:59.2

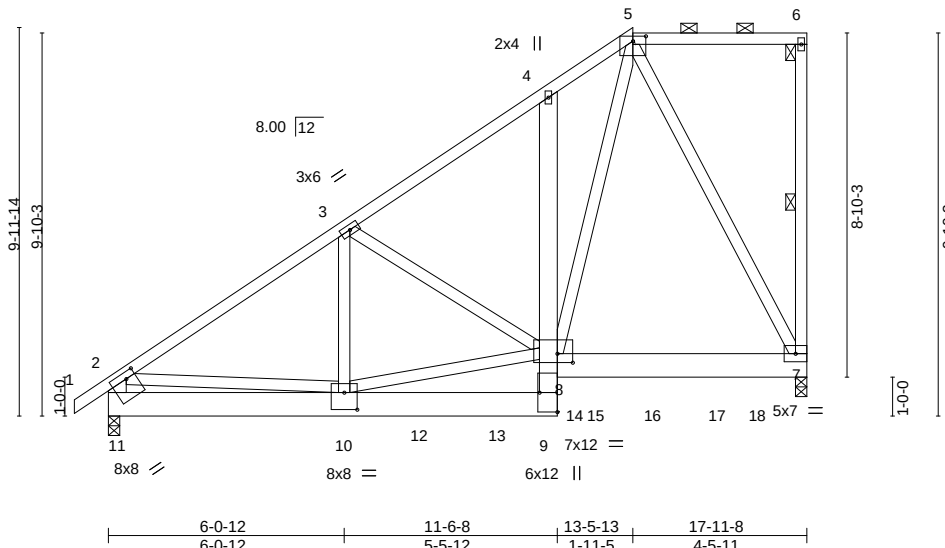


Plate Offsets (X,Y)-- [5:0-4-0,0-1-9], [8:0-4-12,0-2-12], [9:Edge,0-5-8], [10:0-4-0,0-5-4], [11:0-3-0,0-2-0]

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 0.37	Vert(LL)	-0.09	7-8	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.55	Vert(CT)	-0.16	7-8	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.61	Horz(CT)	0.02	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.05	7-8	>999	Weight: 440 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x8 SP DSS *Except*
4-9: 2x6 SPF No.2
WEBS 2x4 SPF No.2 *Except*
2-11: 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-7

REACTIONS.

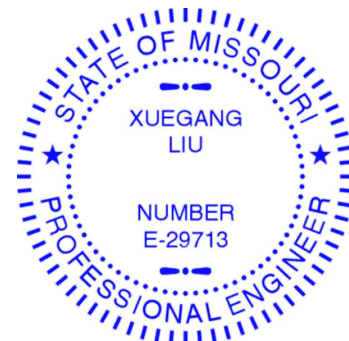
(size) 7=0-3-8 (req. 0-3-9), 11=0-3-8
Max Horz 11=300(LC 5)
Max Uplift 7=492(LC 5), 11=513(LC 8)
Max Grav 7=6793(LC 2), 11=5275(LC 1)

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

TOP CHORD 2-3=-7703/770, 3-4=-5222/437, 4-5=-5101/504, 2-11=-5063/520
BOT CHORD 10-11=-413/1577, 9-10=-177/1060, 8-9=-100/1976, 7-8=-271/2451
WEBS 3-10=-417/2483, 8-10=-579/5333, 3-8=-2472/461, 5-8=-672/7414, 5-7=-5319/472, 2-10=-437/4772

NOTES-

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-4-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 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, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 7 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=492, 11=513.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2968 lb down and 567 lb up at 6-0-13, 1466 lb down and 90 lb up at 8-0-0, 1533 lb down and 88 lb up at 10-0-0, 1567 lb down and 86 lb up at 12-0-0, and 1570 lb down and 83 lb up at 14-0-0, and 1573 lb down and 50 lb up at 16-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



July 17, 2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



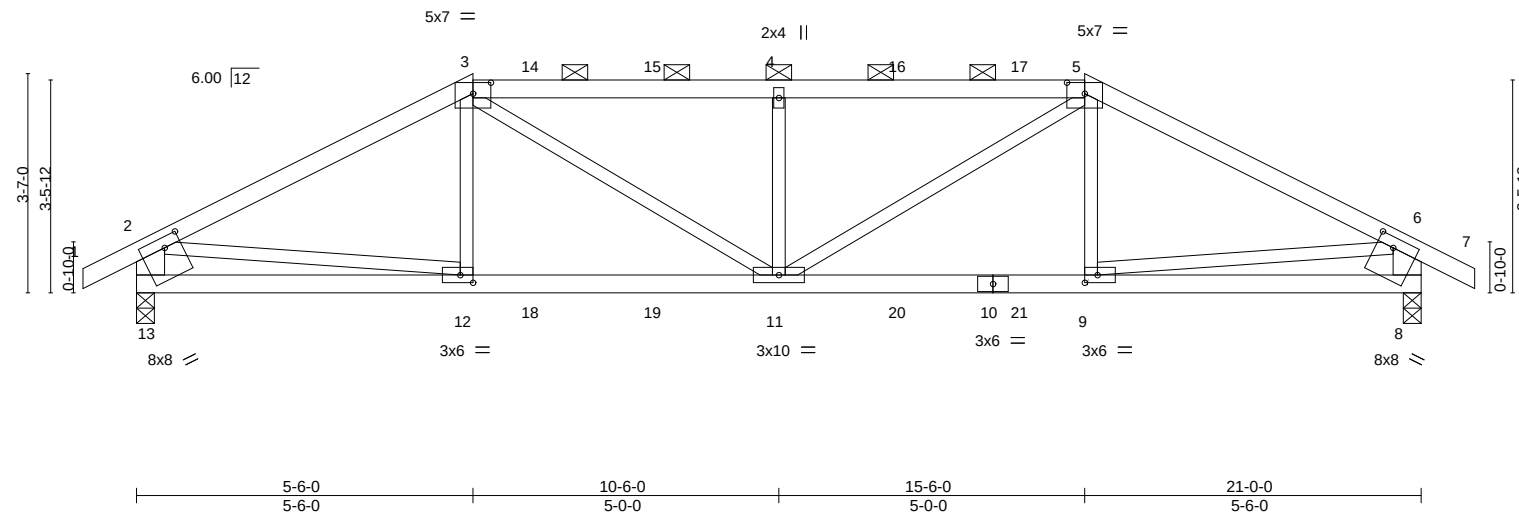
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020		Ply	Lot 77 RR
400422	D9	HALF HIP GIRDER	8.410 s		3	I42065415
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional)				
ID:ell3htjhC3ucpFh1fG0EcZUTUF-_T8vci7T11FNhPxG1Dt4jygcFNUZOhjL2JJ_SEyxDdi						

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 2-5=-70, 5-6=-70, 9-11=-20, 7-8=-20
Concentrated Loads (lb)
Vert: 10=-2968(B) 12=-1466(B) 13=-1464(B) 14=-1464(B) 16=-1464(B) 18=-1464(B)

Job 400422	Truss E1	Truss Type Hip Girder	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020		Lot 77 RR Job Reference (optional) ID: e1l3htjhC3ucpFh1ifG0EcZUTUF-Sfilp285oKNEIZWTbxOJG9CkGnqQ7AnUH2X_gyxDdh
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:58 2020 Page 1		
0-10-8 0-10-8			5-6-0 5-6-0		
10-6-0 5-0-0			15-6-0 5-0-0		
21-0-0 5-6-0			21-10-8 0-10-8		

Scale = 1:37.7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.09	MT20	197/144		
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.17				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.04				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.08	Weight: 78 lb		FT = 10%	

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-13,6-8: 2x6 SPF No.2

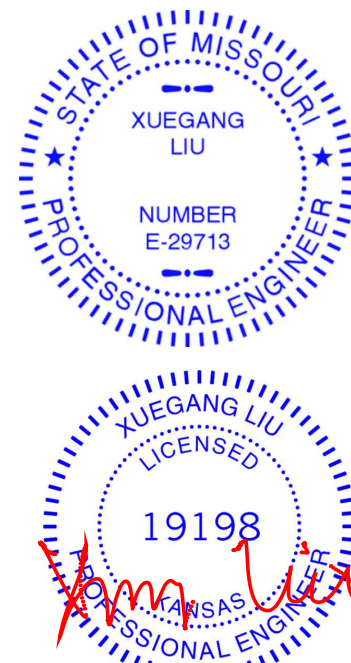
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-7-6 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-8 max.): 3-5.
 BOT CHORD Rigid ceiling directly applied or 9-6-11 oc bracing.

REACTIONS. (size) 13=0-3-8, 8=0-3-8
 Max Horz 13=-65(LC 27)
 Max Uplift 13=-297(LC 8), 8=-297(LC 9)
 Max Grav 13=1406(LC 1), 8=1406(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2099/442, 3-4=-2363/520, 4-5=-2363/520, 5-6=-2099/442, 2-13=-1350/322, 6-8=-1350/322
 BOT CHORD 12-13=-168/396, 11-12=-380/1793, 9-11=-338/1793, 8-9=-137/396
 WEBS 3-11=-177/748, 4-11=-574/252, 5-11=-177/748, 2-12=-333/1429, 6-9=-336/1429

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=297, 8=297.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 100 lb down and 63 lb up at 6-6-0, 100 lb down and 63 lb up at 8-6-0, 100 lb down and 63 lb up at 10-6-0, and 100 lb down and 63 lb up at 12-6-0, and 100 lb down and 63 lb up at 14-6-0 on top chord, and 234 lb down and 134 lb up at 5-6-0, 32 lb down at 6-6-0, 32 lb down at 8-6-0, 32 lb down at 10-6-0, 32 lb down at 12-6-0, and 32 lb down at 14-6-0, and 234 lb down and 134 lb up at 15-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



July 17, 2020

Continued on page 2

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MiTek
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020			Lot 77 RR	I42065416
400422	E1	Hip Girder		Ply	1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:58:59 2020 Page 2 ID:ell3htjhC3ucpFh1fG0EcZUTUF-wrGg0O9jZev5wi5f9evYoNlv0BAfsd1eWdo4X6yxDdg				

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, 3-5=-70, 5-6=-70, 6-7=-70, 8-13=-20
- Concentrated Loads (lb)
 - Vert: 12=-234(B) 11=-22(B) 4=-46(B) 9=-234(B) 14=-46(B) 15=-46(B) 16=-46(B) 17=-46(B) 18=-22(B) 19=-22(B) 20=-22(B) 21=-22(B)



RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/05/2020

Job 400422	Truss E2	Truss Type Hip	Ply 1	Lot 77 RR Job Reference (optional)
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:00 2020 Page 1	
0-10-8 0-10-8 3-5-5 3-5-5 8-2-0 4-8-10 12-10-0 4-8-0 17-6-11 4-8-10 21-0-0 3-5-5 21-10-8 0-10-8			ID: ell3htjhC3ucpFh1fG0EcZUTUF-O2p2EkALKydyYsgrjLRnLa1abX8bA2nkHXe3YyxDdf	

Scale = 1:37.7

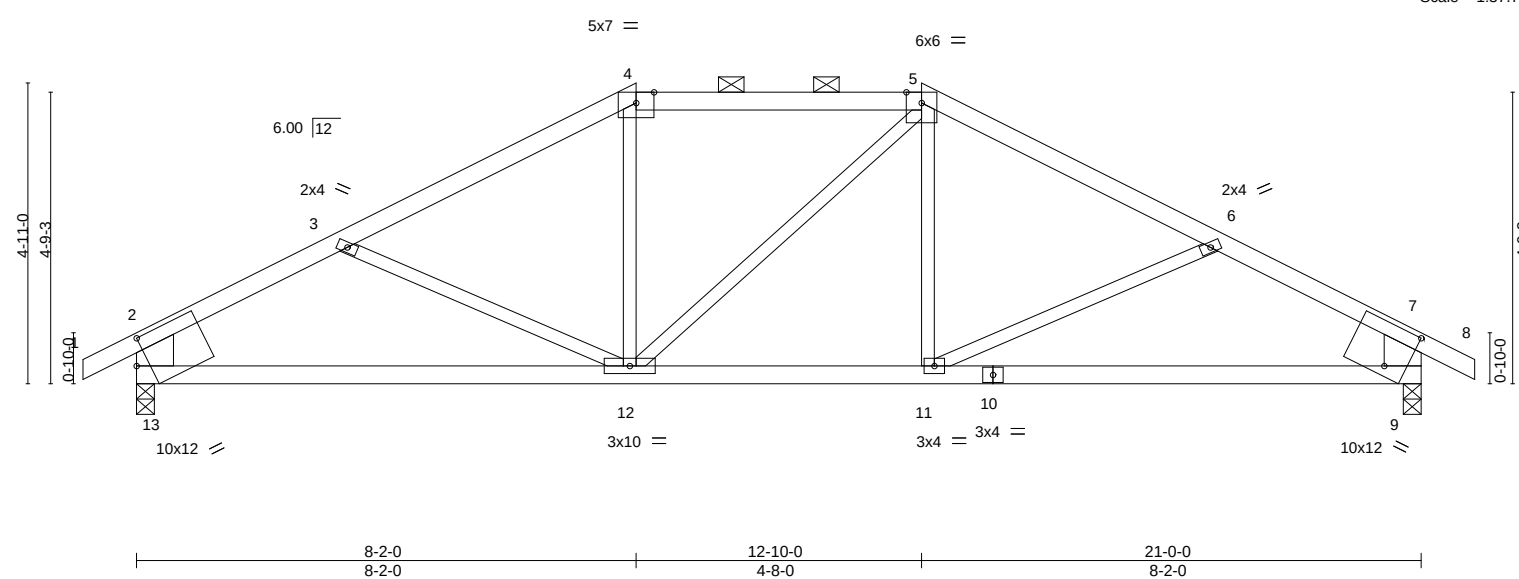


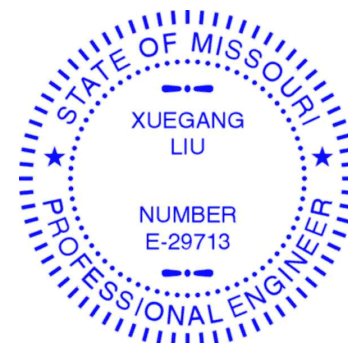
Plate Offsets (X,Y)--		[9-0-4-1,0-8-2], [13-0-2-7,0-4-14]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.11	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.21	9-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.06	11-12	>999	240	Weight: 76 lb	FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF 2100F 1.8E *Except* 4-5: 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-10-1 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-8 max.): 4-5.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2 *Except* 2-13,7-9: 2x8 SP DSS		

REACTIONS.	
(size)	13=0-3-8, 9=0-3-8
Max Horz	13=-83(LC 6)
Max Uplift	13=-123(LC 8), 9=-123(LC 9)
Max Grav	13=1000(LC 1), 9=1000(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1274/179, 3-4=-1157/109, 4-5=-997/135, 5-6=-1157/109, 6-7=-1274/180, 2-13=-909/165, 7-9=-909/165
BOT CHORD	12-13=-158/1011, 11-12=-2/997, 9-11=-103/1011

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=123, 9=123.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 17,2020

Job 400422	Truss E3	Truss Type Common	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020		Ply 1 Lot 77 RR Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:01 2020 Page 1 ID: e13htjhC3ucpFh1ifG0EcZUTUF-sENQR3A_5Fip90F2G3y0uoq8d_rJkdQwzxHBb?yxDe
Wheeler Lumber, Waverly, KS 66871			Scale = 1:41.4		

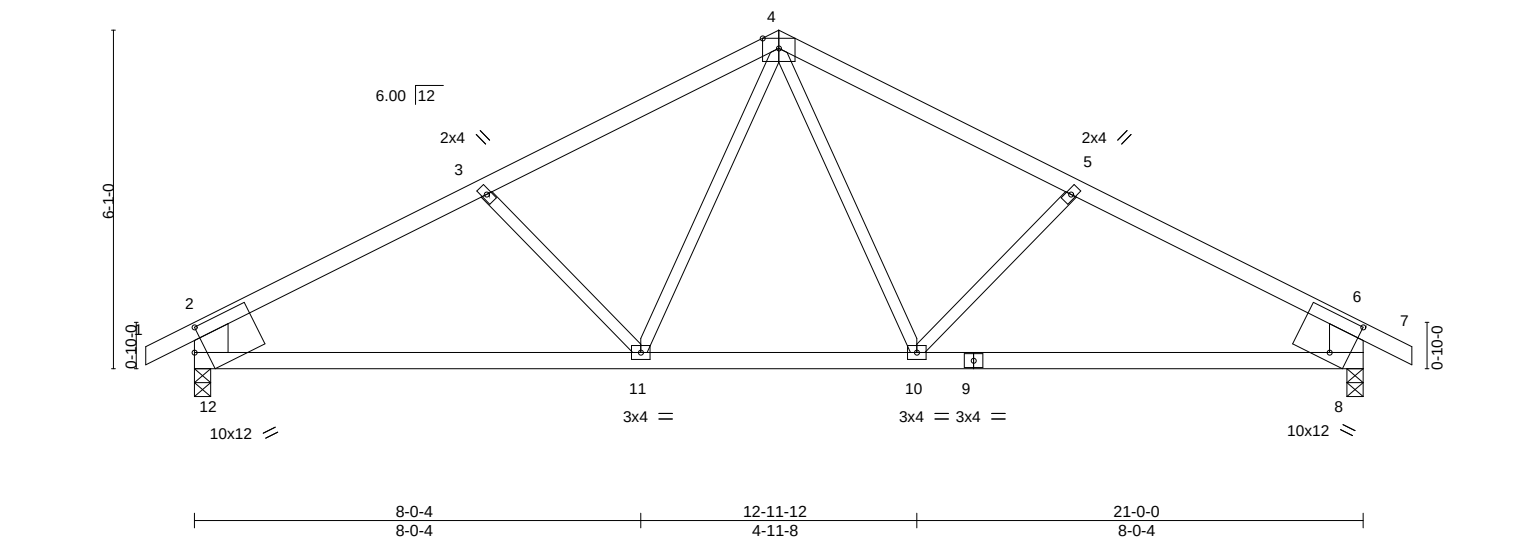


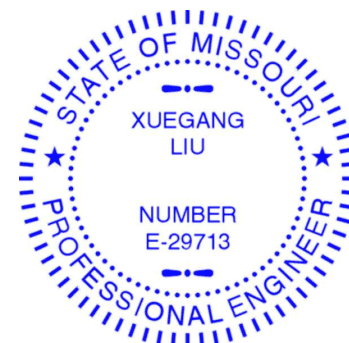
Plate Offsets (X,Y)--		[8:0-4-1,0-8-2], [12:0-2-7,0-4-14]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.99
TCDL 10.0	Lumber DOL	1.15	BC 0.62
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.16 10-11 >999 360
			Vert(CT) -0.25 10-11 >968 240
			Horz(CT) 0.03 8 n/a n/a
			Wind(LL) 0.09 10-11 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 73 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except*	
2-12,6-8: 2x8 SP DSS	

REACTIONS.	(size) 12=0-3-8, 8=0-3-8
	Max Horz 12=99(LC 7)
	Max Uplift 12=-140(LC 8), 8=-140(LC 9)
	Max Grav 12=1000(LC 1), 8=1000(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1318/195, 3-4=-1092/171, 4-5=-1092/171, 5-6=-1318/195, 2-12=-898/182, 6-8=-898/182
BOT CHORD	11-12=-177/1066, 10-11=-25/819, 8-10=-100/1066
WEBS	4-10=-62/308, 4-11=-62/308

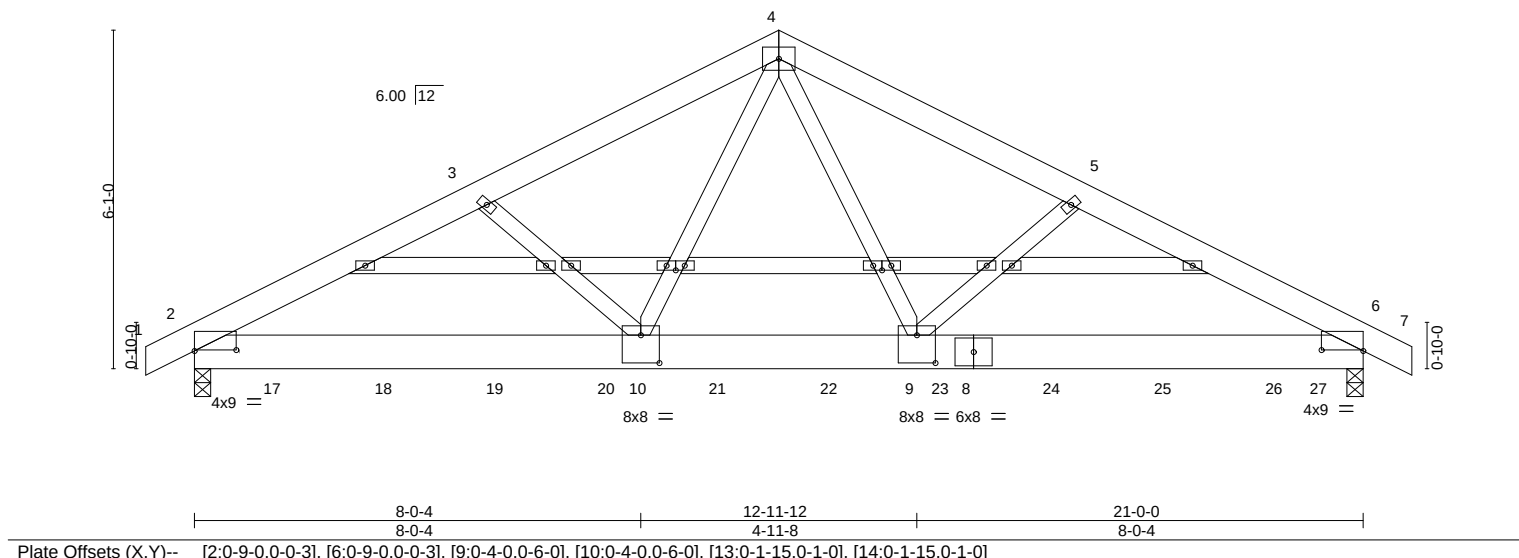
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 12=140, 8=140.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17, 2020

Job 400422	Truss E4	Truss Type COMMON GIRDER	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020		Ply 3	Lot 77 RR I42065419
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional)				
ID: e1l3htjhC3ucpFh1fG0EcZUTUF-LQxofPBcsZtgnAqEqmTFQ?NT6OCq30J4Cb0l7RyxDdd 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:02 2020 Page 1						
0-10-8 0-10-8	5-3-0 5-3-0	10-6-0 5-3-0	15-9-0 5-3-0	21-0-0 5-3-0	21-10-8 0-10-8	

Scale = 1:41.4



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.09	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.16				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.03				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.06				
								Weight: 447 lb		FT = 10%	

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x8 SP DSS	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2		

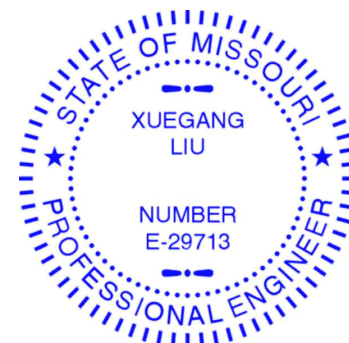
REACTIONS.	
(size)	2=0-3-8, 6=0-3-8
Max Horz	2=65(LC 7)
Max Uplift	2=-371(LC 8), 6=-634(LC 9)
Max Grav	2=5598(LC 1), 6=6623(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-7994/531, 3-4=-7828/526, 4-5=-8125/614, 5-6=-8314/623
BOT CHORD	2-10=-471/6942, 9-10=-320/5548, 6-9=-500/7235
WEBS	4-9=-363/4009, 5-9=-243/251, 4-10=-175/3392, 3-10=-251/271

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=371, 6=634.
 - 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 929 lb down and 81 lb up at 1-5-7, 944 lb down and 74 lb up at 3-5-7, 909 lb down and 80 lb up at 5-5-7, 903 lb down and 69 lb up at 7-5-7, 882 lb down and 63 lb up at 9-5-7, 978 lb down and 43 lb up at 11-5-7, 946 lb down and 36 lb up at 13-5-7, 949 lb down and 146 lb up at 15-5-7, 977 lb down and 150 lb up at 17-5-7, and 977 lb down and 154 lb up at 19-5-7, and 971 lb down and 155 lb up at 19-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



July 17, 2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020			Lot 77 RR
400422	E4	COMMON GIRDER			3	I42065419
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:03 2020 Page 2			Job Reference (optional)
			ID:elI3htjhC3ucpFh1ifG0EcUTUF-pdVBslCEdt?XPKOQOU_UzDwesoY3oTZDRFmIgtYxDdc			

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-4=-70, 4-7=-70, 2-6=-20
- Concentrated Loads (lb)
 - Vert: 17=-885(F) 18=-901(F) 19=-876(F) 20=-872(F) 21=-882(F) 22=-978(F) 23=-946(F) 24=-949(F) 25=-977(F) 26=-977(F) 27=-971(F)



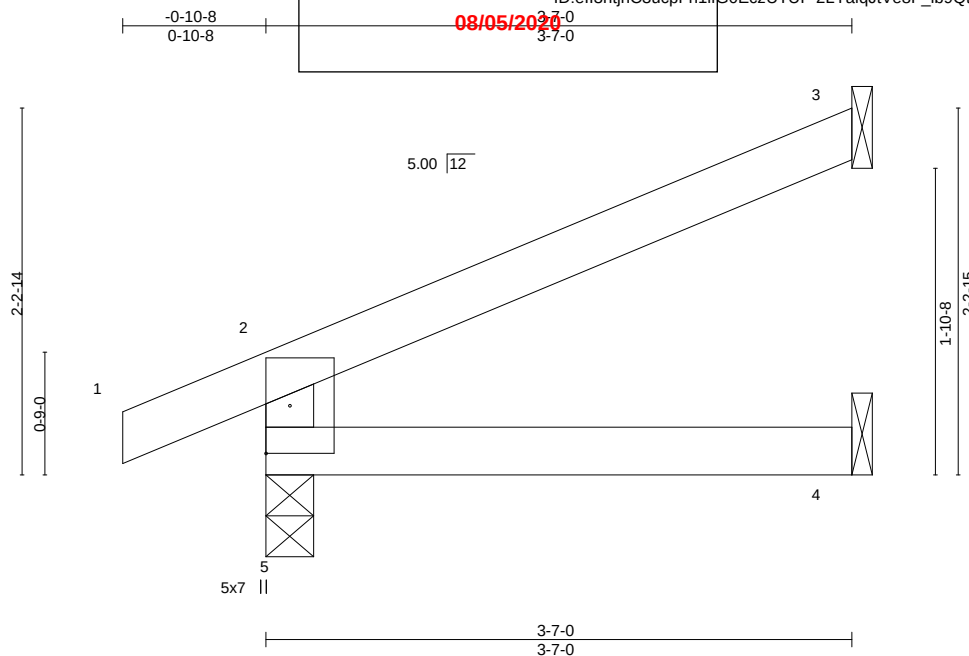
Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020			Lot 77 RR	I42065420
400422	J2	Jack-Open				1	

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional)

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:12 2020 Page 1

ID:ell3htjhC3ucpFh1fG0EcZUTUF-2LYalqJtVe8F_ib9Qtebq6oDuQj4PcvYV8RGUsyxDdT



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 0.15	Vert(LL)	-0.01	4-5	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.01	4-5	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01	4-5	>999	240	
								Weight: 10 lb	FT = 10%

LUMBER-

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

BRACING-

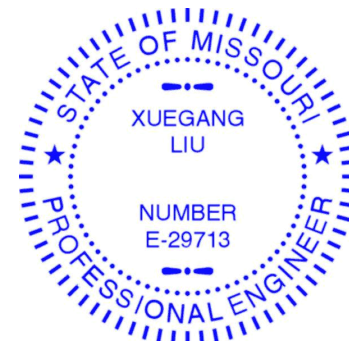
TOP CHORD Structural wood sheathing directly applied or 3-7-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=65(LC 8)
Max Uplift 5=-34(LC 8), 3=-54(LC 8)
Max Grav 5=234(LC 1), 3=103(LC 1), 4=63(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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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400422	Truss J5	Truss Type Diagonal Hip	Girder	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	Lot 77 RR I42065421
Wheeler Lumber, Waverly, KS 66871			Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:21 2020 Page 1 ID:ell3htjhC3ucpFh1ifG0EcZUTUF-H4b_evQXNPG_Z5nuRGJih0faY2fJ0UZta27FfryxDdK			
-1-7-13 1-7-13		3-7-0 3-7-0		08/05/2020		
				11-0-1 7-5-0		

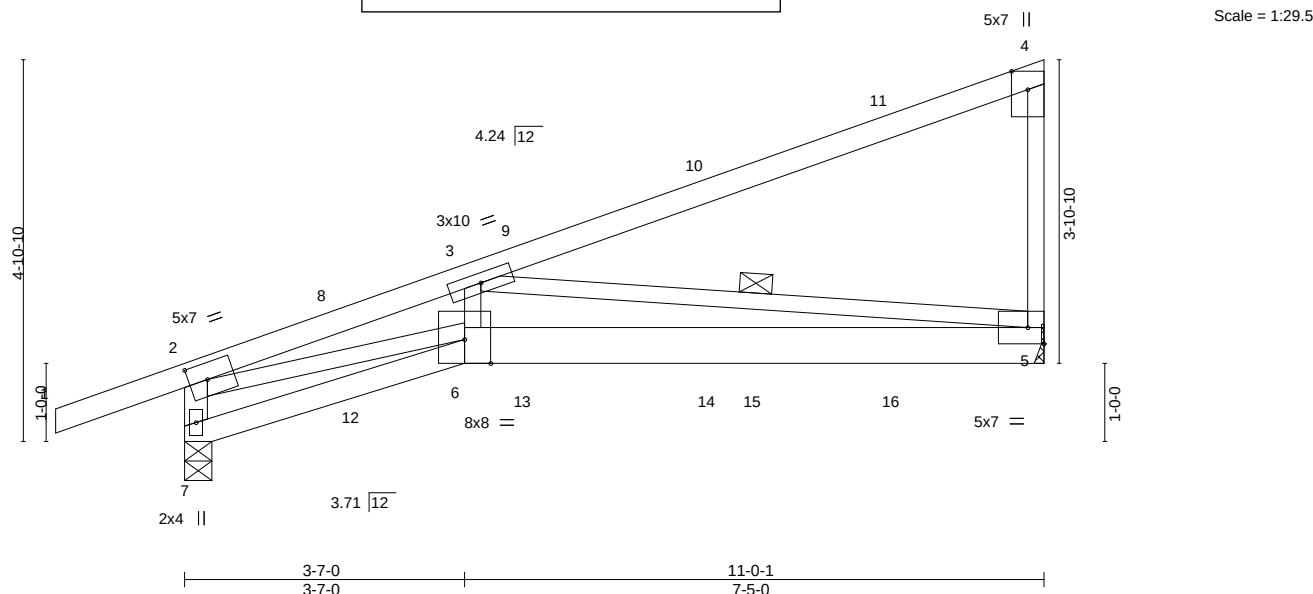


Plate Offsets (X,Y)-- [2-0-2-13,0-2-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.13 5-6 >961 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.26 5-6 >500 240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.06 5 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.15 5-6 >888 240	Weight: 45 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 5-6: 2x6 SPF 1650F 1.4E
 WEBS 2x3 SPF No.2 *Except*
 2-7: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 3-5

REACTIONS.

(size) 7=0-4-3, 5=Mechanical
 Max Horz 7=196(LC 5)
 Max Uplift 7=247(LC 4), 5=282(LC 8)
 Max Grav 7=734(LC 1), 5=744(LC 1)

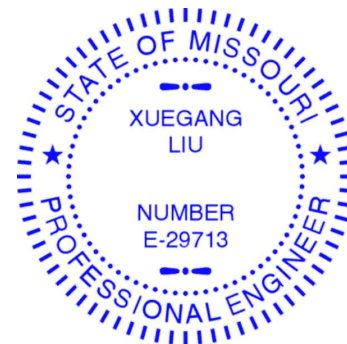
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-7=-685/259, 2-3=-1907/712, 4-5=-255/145
 BOT CHORD 5-6=-777/1750
 WEBS 2-6=-687/1800, 3-6=-75/378, 3-5=-1702/751

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
- 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 will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=247, 5=282.
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 20 lb up at 2-0-9, 105 lb down and 70 lb up at 3-6-14, 80 lb down and 58 lb up at 4-4-14, and 105 lb down and 87 lb up at 6-9-3, and 120 lb down and 94 lb up at 9-1-8 on top chord, and 13 lb down and 16 lb up at 2-0-9, 14 lb down at 3-7-4, 15 lb down and 16 lb up at 4-4-14, 28 lb down at 6-9-3, and 251 lb down and 109 lb up at 7-4-3, and 53 lb down and 43 lb up at 9-1-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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



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Continued on page 2

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			RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020					
Job	Truss	Truss Type	Girder	Ply	Lot 77 RR			
400422	J5	Diagonal Hip		1	I42065421			
Wheeler Lumber, Waverly, KS 66871			Job Reference (optional)					
			8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:21 2020 Page 2 ID:e1l3htjhC3ucpFh1ifG0EcZUTUF-H4b_evQXNPG_Z5nuRGJih0faY2fJ0UZta27FryxDdK					
LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15								

LOAD CASE(S)
Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-70, 2-4=-70, 6-7=-20, 5-6=-20
- Concentrated Loads (lb)
- Vert: 6=-4(B) 10=-23(F) 11=-44(F) 12=2(F) 13=-0(F) 14=-13(F) 15=-251(B) 16=-51(F)


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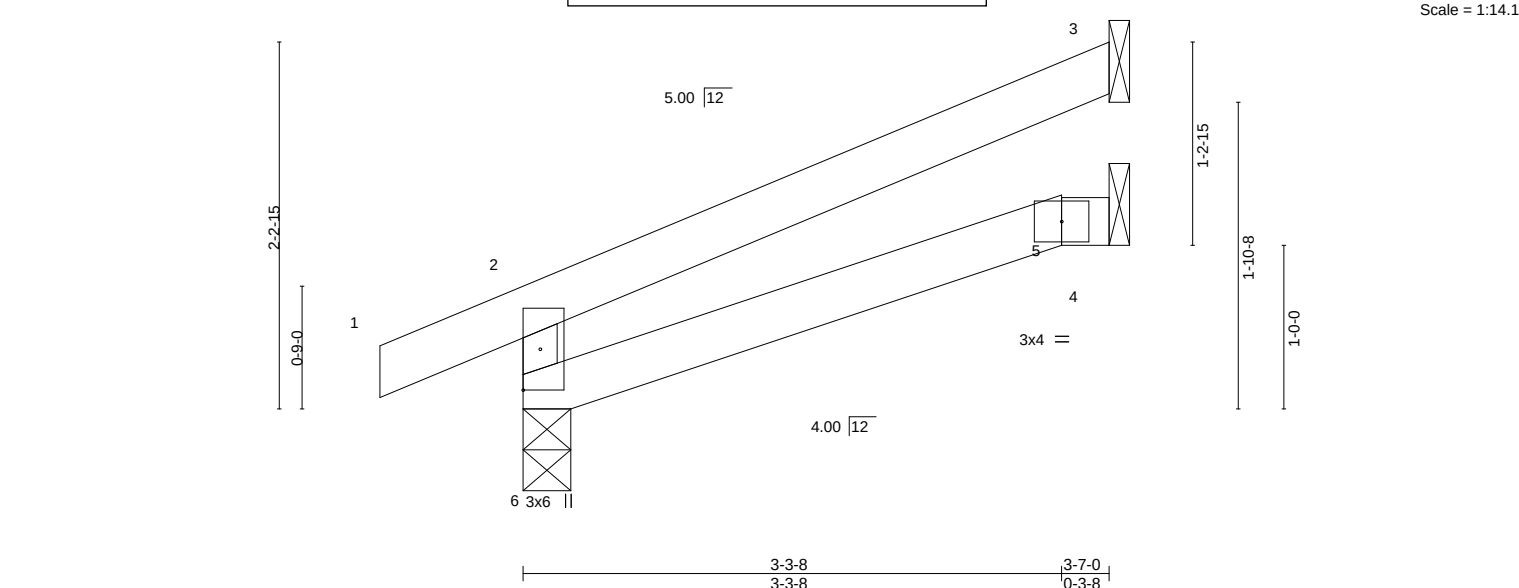
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



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Job 400422	Truss J6A	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Lot 77 RR I42065422
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:21 2020 Page 1 ID:ell3htjhC3ucpFh1ifG0EcZUTUF-H4b_evQXNPG_Z5nuRGJih0fmS2o60h7ta27FlryxDdK			



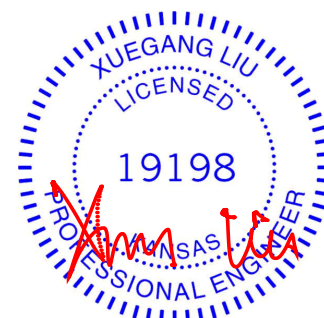
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	-0.01 5-6	>999	360	MT20	197/144
BCLL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.02 5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01 5-6	>999	240		
								Weight: 10 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (size) 6=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 6=65(LC 8)
 Max Uplift 6=32(LC 8), 3=58(LC 8)
 Max Grav 6=232(LC 1), 3=106(LC 1), 4=65(LC 3)

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

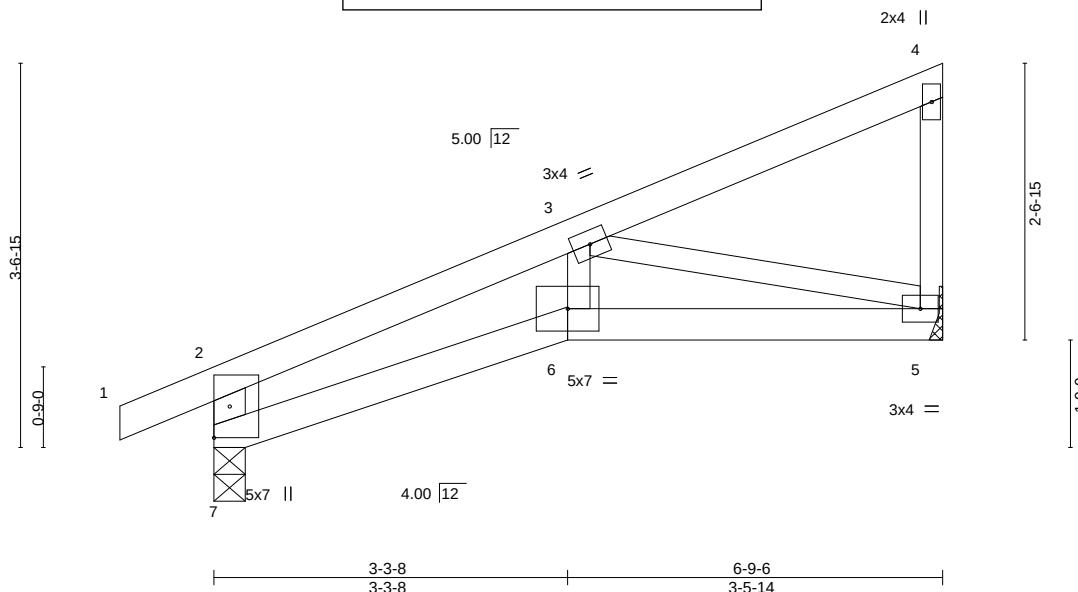
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed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



July 17, 2020

			RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI					
Job	Truss	Truss Type	Qty	Ply	Lot 77 RR			I42065423
400422	J7A	Jack-Closed	1	1	Job Reference (optional)			
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:22 2020 Page 1					
			ID:ell3htjhC3ucpFh1iKG0EcZUTUF-IG8MrFR98iPqBFL4?zqxEDCuPS43l6B0oisorHyxDdJ					
-0-10-8			3-3-8			6-9-6		
0-10-8			3-3-8			3-5-14		
			08/05/2020					

Scale = 1:21.4



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 0.34	Vert(LL)	-0.04	6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.06	6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.03	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.03	6	>999	240	Weight: 23 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-7: 2x4 SPF No.2

BRACING-

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

REACTIONS.

(size) 7=0-3-8, 5=Mechanical
 Max Horz 7=131(LC 5)
 Max Uplift 7=62(LC 8), 5=71(LC 8)
 Max Grav 7=371(LC 1), 5=288(LC 1)

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

TOP CHORD 2-7=-450/120, 2-3=-579/122
 BOT CHORD 6-7=-152/491, 5-6=-143/450
 WEBS 3-5=-445/167

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
- 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 will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17, 2020

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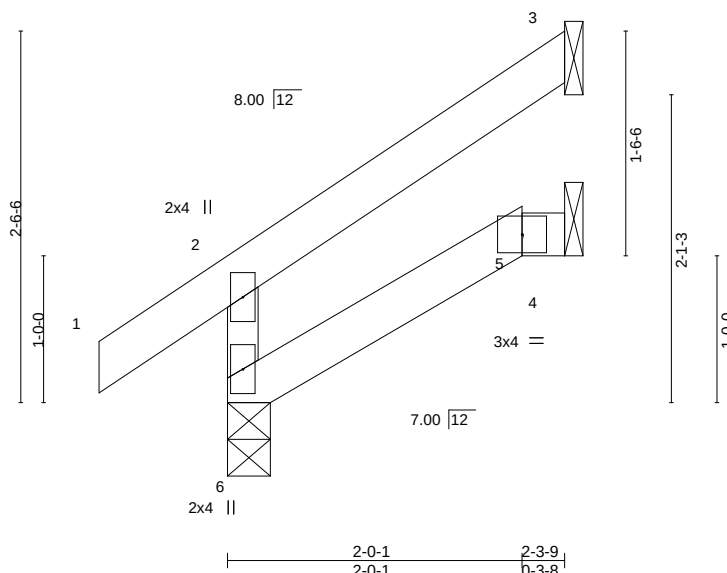
Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020			Lot 77 RR	I42065425
400422	J9	Jack-Open				Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

0-10-8 0-10-8 2-3-9 2-3-9

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:23 2020 Page 1
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Scale = 1:15.7



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 0.09	Vert(LL)	-0.00	5	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	5-6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	5-6	>999	Weight: 8 lb	FT = 10%

LUMBER-

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

BRACING-

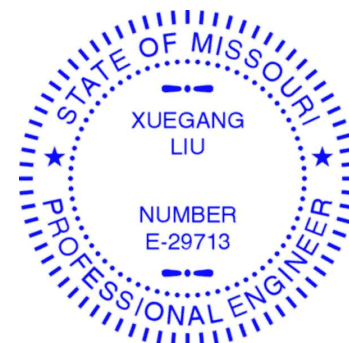
TOP CHORD Structural wood sheathing directly applied or 2-3-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 6=69(LC 8)
Max Uplift 3=-55(LC 8), 4=-3(LC 8)
Max Grav 6=180(LC 1), 3=69(LC 15), 4=41(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) 3, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

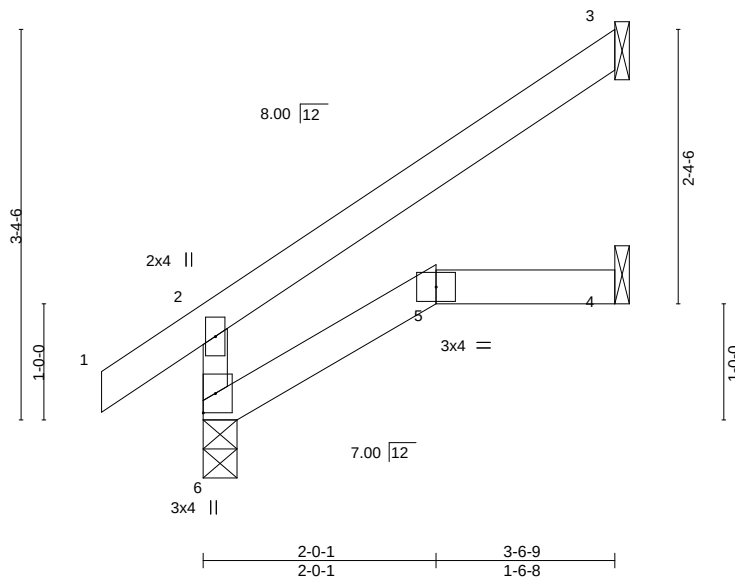
Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020			Ply	Lot 77 RR	I42065426
400422	J10	Jack-Open				1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

0-10-8 2-0-1 3-6-9
0-10-8 2-0-1 1-6-8

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:03 2020 Page 1
ID:ell3htjhC3ucpFh1ifG0EcZUTUF-pdVBSlCEdt?XPKOQOU_UzDwhwoe0oYgDRFmlgtyxDdc

Scale = 1:19.8



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 0.17	Vert(LL)	-0.01 5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.02 5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.02 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01 5-6	>999	240		
								Weight: 11 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 6=103(LC 8)
Max Uplift 3=82(LC 8)
Max Grav 6=231(LC 1), 3=115(LC 15), 4=65(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) 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.



July 17, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Ply	Lot 77 RR
400422	J11	Jack-Open	8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:04 2020 Page 1			1	I42065427
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional) ID:ell3htjhC3ucpFh1fG0EcZUTUF-Hp3Z45DsNA7O0UzcyBVjVQSRlCxbX?bNfuVrCKyxDb					
-0-10-8 0-10-8		2-0-1 2-0-1		08/05/2020		4-9-9 2-9-8	

Scale: 1/2"=1'

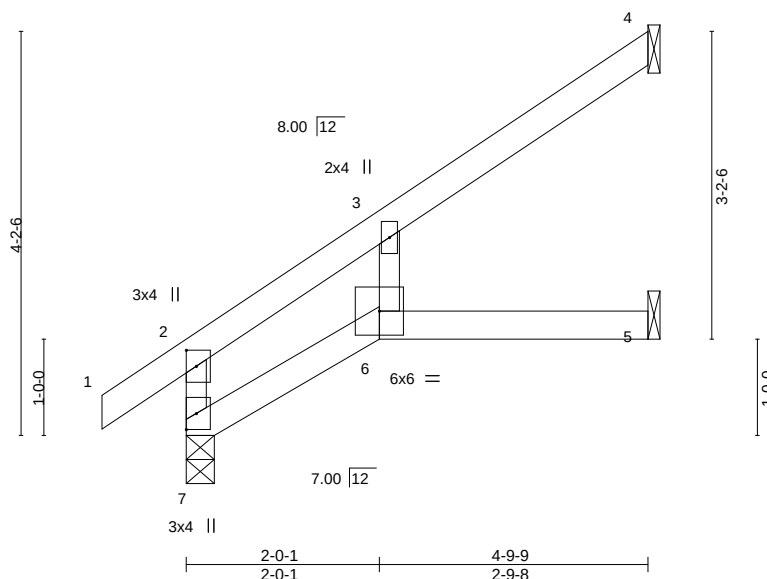


Plate Offsets (X,Y)--		[2:0-2-0,0-1-4]								
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0		Plate Grip DOL 1.15		TC 0.23		Vert(LL) -0.03	6	>999	360	MT20 197/144
TCDL 10.0		Lumber DOL 1.15		BC 0.27		Vert(CT) -0.06	5-6	>894	240	
BCLL 0.0 *		Rep Stress Incr YES		WB 0.02		Horz(CT) -0.05	4	n/a	n/a	
BCDL 10.0		Code IRC2018/TPI2014		Matrix-P		Wind(LL) 0.06	6	>919	240	Weight: 15 lb FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-9 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

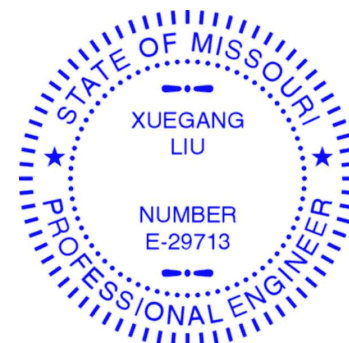
REACTIONS.

(size) 7=0-3-8, 4=Mechanical, 5=Mechanical
 Max Horz 7=137(LC 8)
 Max Uplift 4=-83(LC 8), 5=-19(LC 8)
 Max Grav 7=284(LC 1), 4=137(LC 15), 5=81(LC 15)

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) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:ell3htjhC3ucpFh1ifG0EcZUTUF-I?dxHREU8UFFedYpVv0y2e?zkcF6GSrWuYFPkmyxDda		Lot 77 RR	I42065428
400422	J12	Jack-Open			1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

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0-10-8 2-0-1 5-11-4
0-10-8 2-0-1 3-11-3

08/05/2020

Scale = 1:29.8

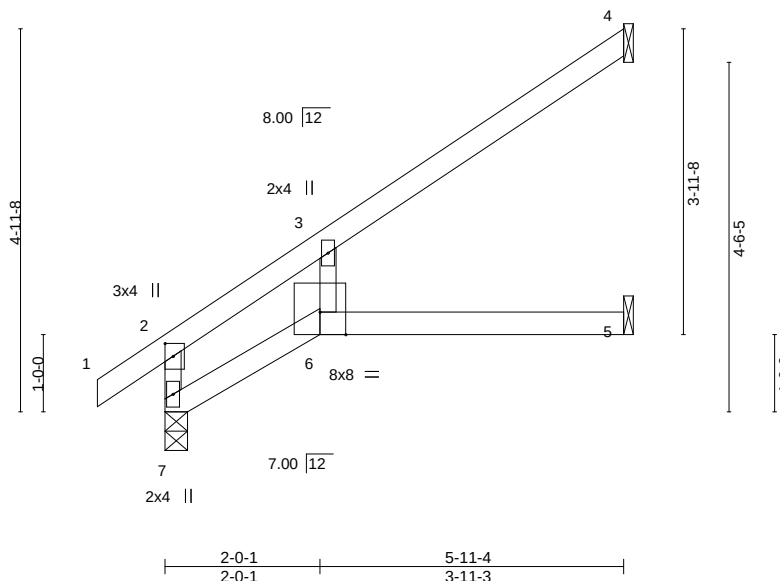


Plate Offsets (X,Y)--		[2-0-2-0-0-1-4]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.41	Vert(LL) -0.08 5-6 >857 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.15 5-6 >462 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.08 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.09 5-6 >739 240	Weight: 18 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 7=118(LC 8)
Max Uplift 4=-64(LC 8), 5=-1(LC 8)
Max Grav 7=334(LC 1), 4=170(LC 13), 5=103(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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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.
- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:ell3htjhC3ucpFh1ifG0EzUTUF-DBBJUnE6voO6Gn7?3cXBbrY7W?bY?vQf7C_yHCyxDdZ			Lot 77 RR	I42065429
400422	J13	Jack-Open				1	

Wheeler Lumber, Waverly, KS 66871

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:06 2020 Page 1

0-10-8 2-9-1 5-11-4
0-10-8 2-9-1 3-2-3

08/05/2020

Scale = 1:29.0

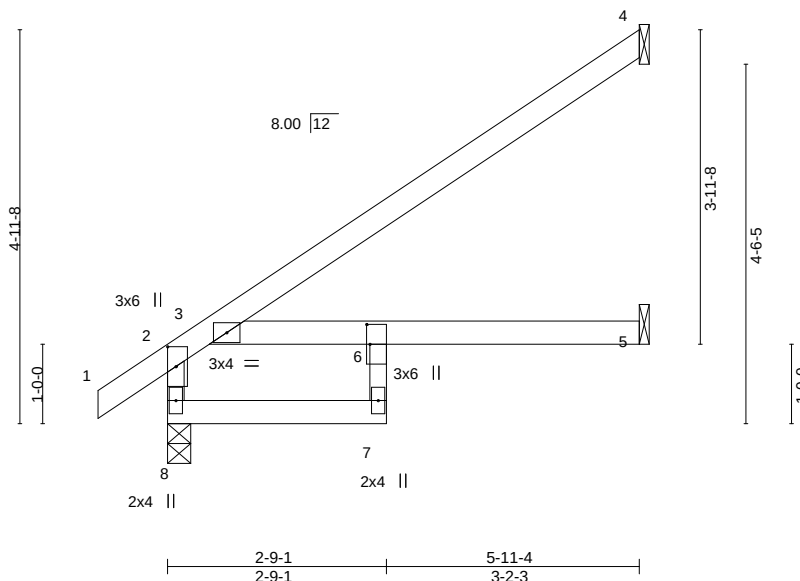


Plate Offsets (X,Y)-- [2:0-3-0,0-1-4], [6:0-3-0,0-0-8]

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 0.47	Vert(LL)	-0.06	5-6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.14	5-6	>506	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.05	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.06	5-6	>999	240	Weight: 20 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 6-7: 2x3 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-8, 4=Mechanical, 5=Mechanical
 Max Horz 8=119(LC 8)
 Max Uplift 4=66(LC 8)
 Max Grav 8=366(LC 1), 4=174(LC 13), 5=131(LC 3)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-343/0

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:07 2020 Page 1 ID:elI3hjhC3ucpFh1ifG0EcZUTUF-hOkhi7Fkg5WztXiBdK3Q734L3Pv9kLgpLskWpexxDdY		Lot 77 RR
400422	J14	Jack-Open			I42065430

Wheeler Lumber,	Waverly, KS 66871	Job Reference (optional) Scale = 1:29.0			
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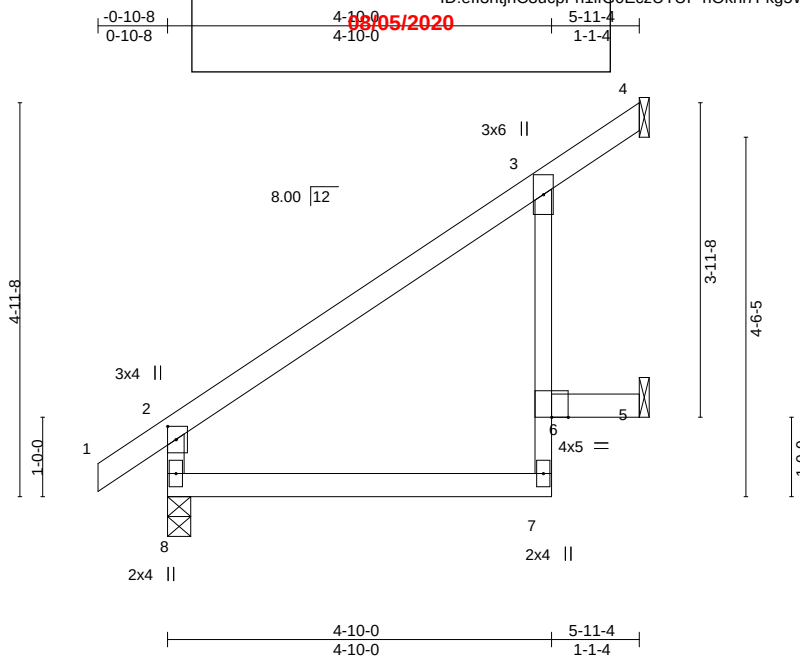


Plate Offsets (X,Y)--		[2:0-2-0,0-1-4]			
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL) -0.03	6 >999 360
TCDL 10.0	Lumber DOL	1.15	BC 0.53	Vert(CT) -0.06	7-8 >999 240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT) -0.03	4 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL) 0.03	6 >999 240
				PLATES	GRIP
				MT20	197/144
				Weight: 20 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-8, 4=Mechanical, 5=Mechanical
 Max Horz 8=119(LC 8)
 Max Uplift 4=-10(LC 8), 5=-53(LC 8)
 Max Grav 8=334(LC 1), 4=92(LC 13), 5=172(LC 13)

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

TOP CHORD 2-8=-290/11

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17, 2020

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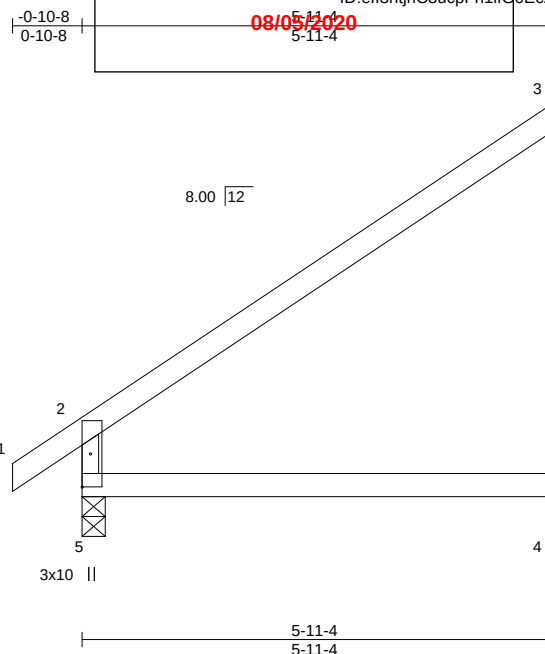
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 77 RR	I42065431
400422	J15	Jack-Open				1	

Wheeler Lumber, Waverly, KS 66871



Scale = 1:29.0

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 0.56	Vert(LL)	-0.05	4-5	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.33	Vert(CT)	-0.12	4-5	>569	240	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.06	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.05	4-5	>999	240	
								Weight: 17 lb	FT = 10%

LUMBER-

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

BRACING-

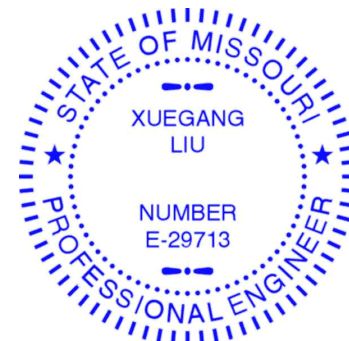
TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=119(LC 8)
 Max Uplift 3=80(LC 8)
 Max Grav 5=334(LC 1), 3=191(LC 13), 4=111(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-288/25

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17, 2020

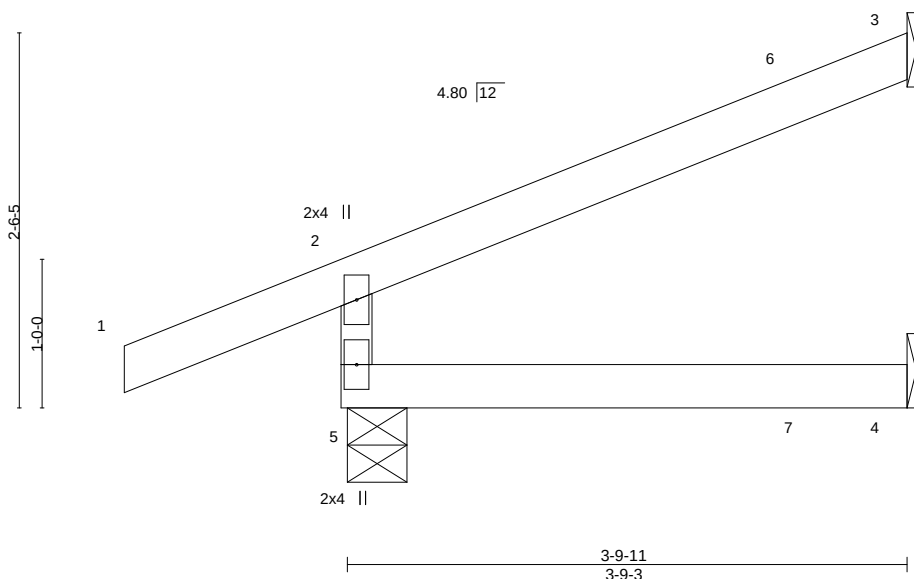
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400422	Truss J16	Truss Type Diagonal Hip	Girder	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	Lot 77 RR I42065432
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional) ID: ell3htjhC3ucpFh1ifG0EcZUTUF-9al4vTGNRPeqV5HOB1afgGdYOpLcTovyaWT3L5yxDdX 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:08 2020 Page 1 08/05/2020				



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 0.19	Vert(LL)	-0.01 4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.02 4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.01 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01 4-5	>999	240	Weight: 11 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-11 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-13, 3=Mechanical, 4=Mechanical
 Max Horz 5=71(LC 8)
 Max Uplift 5=64(LC 4), 3=-73(LC 8)
 Max Grav 5=298(LC 1), 3=105(LC 1), 4=73(LC 3)

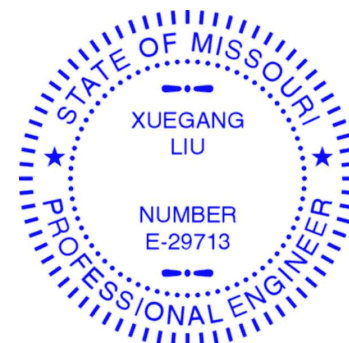
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-260/95

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
- 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 will fit between the bottom chord and any other members.
- 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) 5, 3.
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 57 lb up at 3-2-0 on top chord, and 15 lb down at 3-2-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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: 1-2=-70, 2-3=-70, 4-5=-20
 Concentrated Loads (lb)
 Vert: 6=-1(F) 7=-5(F)



July 17, 2020

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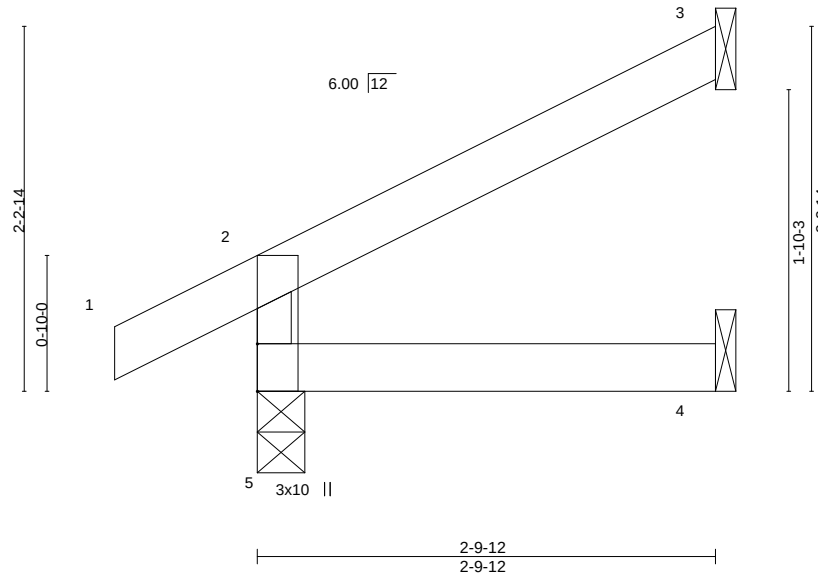
Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 77 RR	I42065433
400422	J17	Jack-Open				1	

Wheeler Lumber, Waverly, KS 66871

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:09 2020 Page 1
 ID:ell3htjhC3ucpFh1fG0EczUTUF-dmsS7pH?Cjmh7Fsakk5uCUAkiDizCF96pADctXyxDdW

0-10-8 0-10-8 08/05/2020 2-9-12 2-9-12

Scale = 1:14.1



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 0.09	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
BCLL 10.0	Lumber DOL	1.15	BC 0.06	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)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-9-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

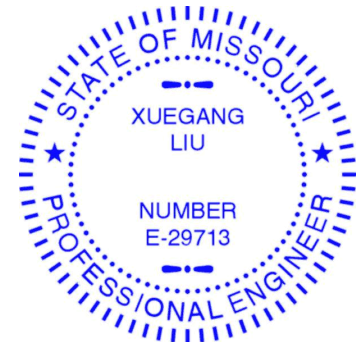
REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=63(LC 8)
 Max Uplift 5=-22(LC 8), 3=-50(LC 8)
 Max Grav 5=200(LC 1), 3=79(LC 1), 4=50(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.



July 17, 2020

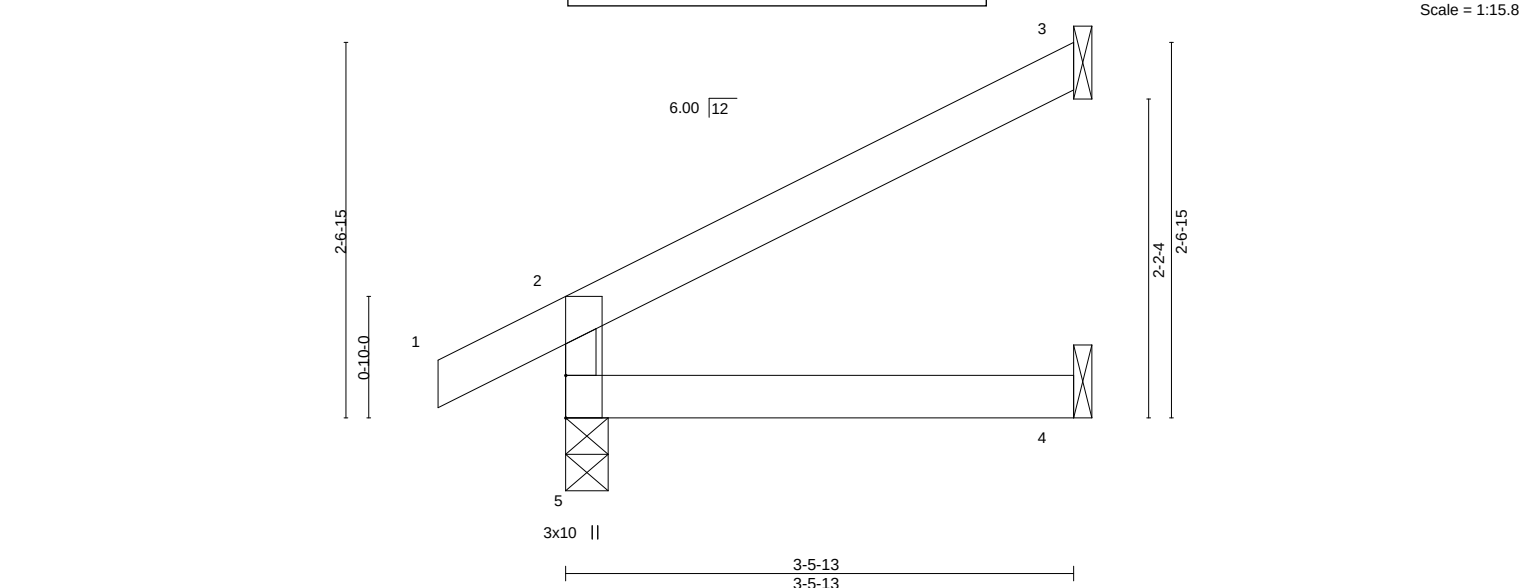
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020			Lot 77 RR	I42065434
400422	J18	Jack-Open	4	Ply	1	Job Reference (optional)	
Wheeler Lumber,		Waverly, KS 66871		8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:10 2020 Page 1 ID:ell3htjhC3ucpFh1iG0EcZUTUF-6zQqK8Hdz0uXkPRmISc7lhitPd1cxiPF2qyAQzyxDdV			
		-0-10-8 0-10-8					



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 0.15	Vert(LL)	-0.01 4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.01 4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01 4-5	>999	240	Weight: 10 lb	FT = 10%

LUMBER-

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

BRACING-

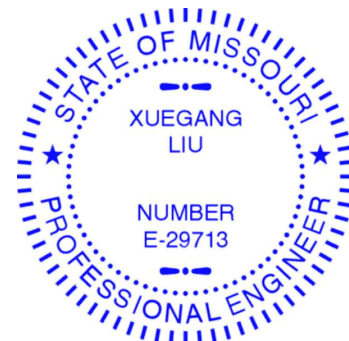
TOP CHORD Structural wood sheathing directly applied or 3-5-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=77(LC 8)
Max Uplift 5=-24(LC 8), 3=-62(LC 8)
Max Grav 5=228(LC 1), 3=102(LC 1), 4=63(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.



July 17, 2020

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Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/05/2020

Job 400422	Truss J19	Truss Type Diagonal Hip	Girder	Ply 1	Lot 77 RR Job Reference (optional)
Wheeler Lumber, Waverly, KS 66871			ID: e13htjhC3ucpFh1ifG0EcZUTUF-a9_CYUIFKk0OMY0zs97MlvFxY0Jpg9fPGUiyyQyxDdU 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:11 2020 Page 1 6-3-8 6-3-8		

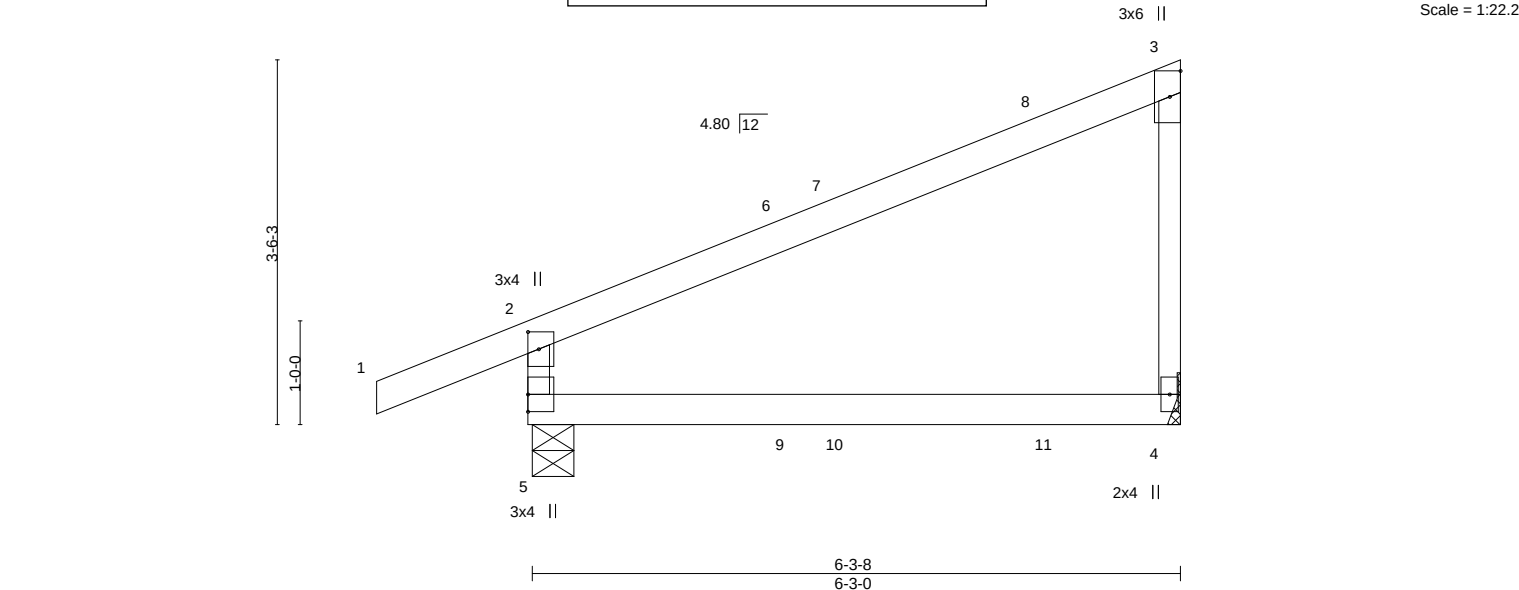


Plate Offsets (X,Y)--		[2:0-2-0,0-1-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.58
TCDL 10.0	Lumber DOL	1.15	BC 0.36
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.06 4-5 >999 360
			Vert(CT) -0.12 4-5 >591 240
			Horz(CT) -0.00 4 n/a n/a
			Wind(LL) 0.03 4-5 >999 240
			PLATES GRIP
			MT20 197/144
			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 end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (size) 5=0-4-13, 4=Mechanical
 Max Horz 5=149(LC 5)
 Max Uplift 5=-98(LC 4), 4=-100(LC 5)
 Max Grav 5=399(LC 1), 4=268(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-348/134

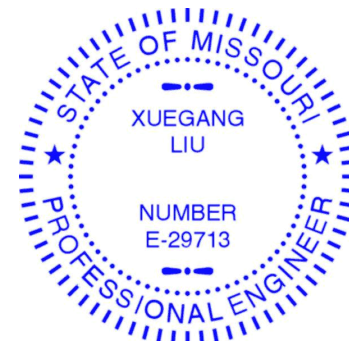
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been 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) 4=100.
 - 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) 73 lb down and 36 lb up at 2-6-15, and 87 lb down and 57 lb up at 3-0-12, and 93 lb down and 73 lb up at 5-0-15 on top chord, and 9 lb down and 14 lb up at 2-6-15, and 8 lb down at 3-0-12, and 21 lb down at 5-0-15 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: 8=-3(F) 9=1(F) 10=-2(B) 11=-7(F)

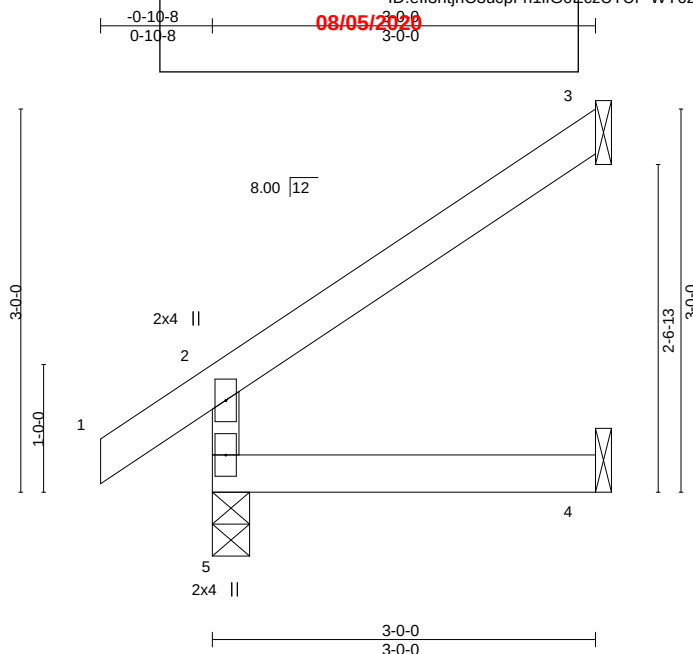


July 17,2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020			Lot 77 RR	I42065436
400422	J20	Jack-Open				Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:13 2020 Page 1
ID:ell3htjhC3ucpFh1ifG0EcZUTUF-WY6zyAKVGxG6cs9LzaAqNKKO1q3k839hkoBq0lyxDdS



Scale = 1:18.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.00	4-5	>999	360	MT20
BCLL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.01	4-5	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01	4-5	>999	240	
								Weight: 9 lb	FT = 10%

LUMBER-

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

BRACING-

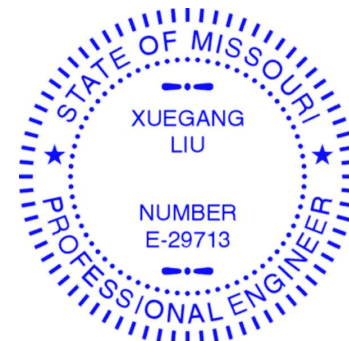
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=89(LC 8)
Max Uplift 5=-2(LC 8), 3=-68(LC 8)
Max Grav 5=208(LC 1), 3=94(LC 15), 4=54(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.



July 17, 2020

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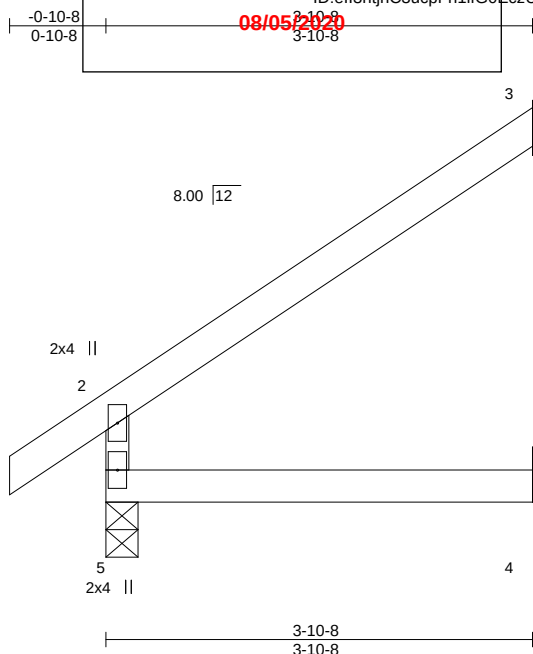
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 77 RR	I42065437
400422	J21	Jack-Open				Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871



Scale = 1:20.9

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)	-0.01	4-5	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.02	4-5	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.02	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01	4-5	>999	240	
								Weight: 12 lb	FT = 10%

LUMBER-

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

BRACING-

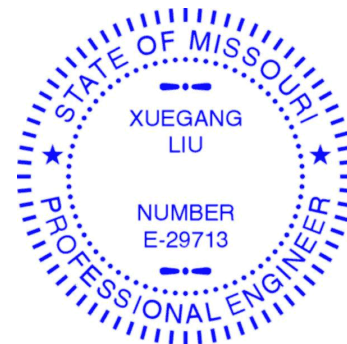
TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=80(LC 8)
 Max Uplift 3=54(LC 8)
 Max Grav 5=244(LC 1), 3=122(LC 13), 4=71(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); 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.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17, 2020

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

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job

400422

Truss

J22

Truss Type

Jack-Open

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

08/05/2020

1

1

1

1

Lot 77 RR

I42065438

Job Reference (optional)

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:14 2020 Page 1

Wheeler Lumber,

Waverly, KS 66871

0-10-8

0-10-8

1-6-0

1-6-0

ID:ell3htjhC3ucpFh1fG0EcZUTUF-_kgLAWL71FOzD0kXXIh3vXtamEQrZWPzSwNZlyxDdR

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	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00 5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R					Weight: 6 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-6-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=50(LC 8)
 Max Uplift 5=-5(LC 8), 3=-35(LC 8), 4=-6(LC 8)
 Max Grav 5=155(LC 1), 3=36(LC 15), 4=26(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.

July 17, 2020

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MiTek

16023 Swingley Ridge Rd

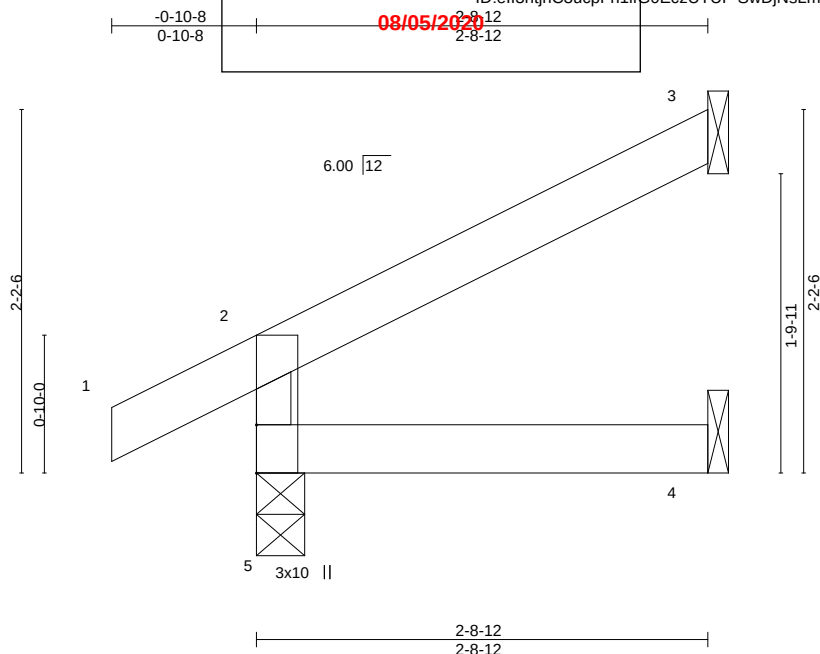
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020			Lot 77 RR	I42065439
400422	J23	Jack-Open				Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:15 2020 Page 1

ID:ell3htjhC3ucpFh1ifG0EcZUTUF-SwDjNsLmoZWqrAjk5?CISlQllelRcZe_B6gx5ByxDdQ



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 0.08	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
BCLL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=61(LC 8)
Max Uplift 5=-22(LC 8), 3=-48(LC 8)
Max Grav 5=197(LC 1), 3=76(LC 1), 4=49(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.



July 17, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 77 RR	I42065440
400422	J24	Jack-Open				1	

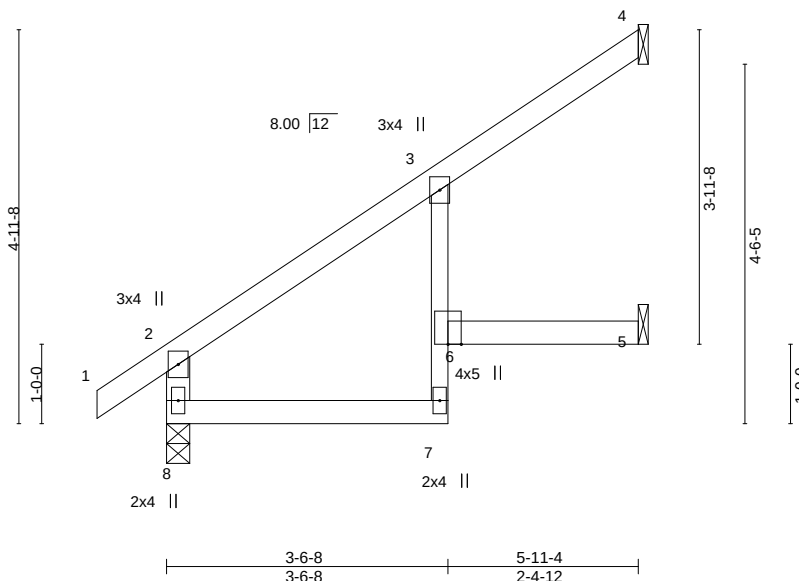
Wheeler Lumber, Waverly, KS 66871

0-10-8 3-6-8 5-11-4
0-10-8 3-6-8 2-4-12

08/05/2020

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:15 2020 Page 1
ID:ell3htjhC3ucpFh1ifG0EcZUTUF-SwDjNsLmoZWqrAJk5?CISlQHtEfscze_B6gx5ByxDdQ

Scale = 1:29.0



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 0.33	Vert(LL)	-0.07	6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.12	6	>578	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.03	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.07	6	>999	240		
									Weight: 19 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

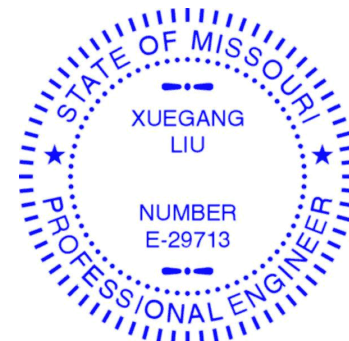
(size) 8=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 8=118(LC 8)
Max Uplift 4=-49(LC 8), 5=-14(LC 8)
Max Grav 8=336(LC 1), 4=156(LC 13), 5=106(LC 13)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-304/7

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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, 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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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 77 RR	I42065441
400422	J25	Jack-Open				1	
Wheeler Lumber,		Waverly, KS 66871		8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:16 2020 Page 1 ID:eIl3htjhC3ucpFh1fGCEczUTUF-w7n5bCMOZsehTKuwfjX?yyqr1?0LQu8QmPUddyxDdP			
		-0-10-8 0-10-8		2-3-8 2-3-8		5-11-4 3-7-12	

Scale = 1:29.0

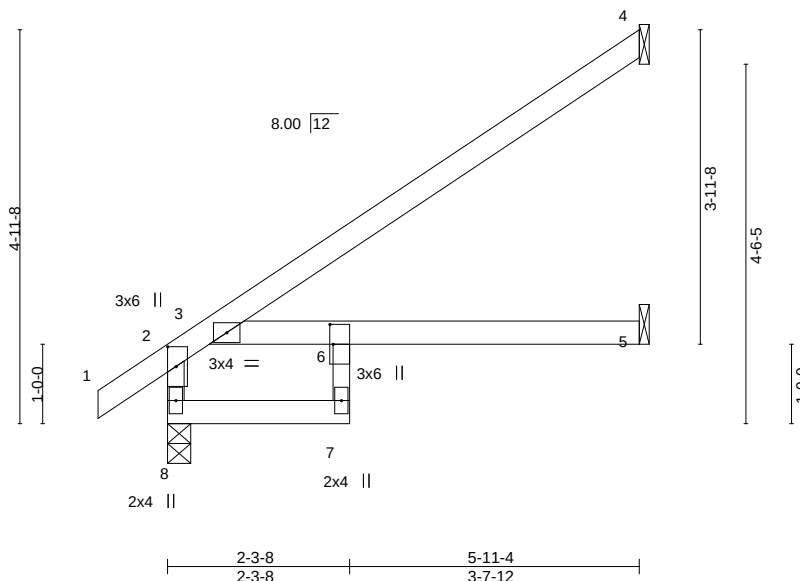


Plate Offsets (X,Y)--		[2:0-3-0,0-1-4], [6:0-3-0,0-0-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL) -0.06 5-6 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.42	Vert(CT) -0.13 5-6 >519 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.06 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.07 5-6 >999 240	Weight: 19 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 6-7: 2x3 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

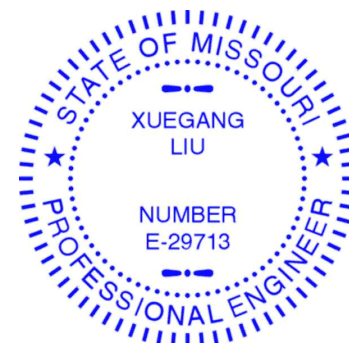
TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical
 Max Horz 8=119(LC 8)
 Max Uplift 4=67(LC 8)
 Max Grav 8=360(LC 1), 4=176(LC 13), 5=122(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-342/0

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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.
- 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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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
 ID: e1l3htjhC3ucpFh1ifG0EcZUTUF-OJLT0YN0KAmY4TT6CQEmXAVtRRHQ4fmHfQ9193yxDdO
 08/05/2020

Job 400422	Truss J26	Truss Type Diagonal Hip	Girder	Ply 1	Lot 77 RR Job Reference (optional)
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:17 2020 Page 1 ID: e1l3htjhC3ucpFh1ifG0EcZUTUF-OJLT0YN0KAmY4TT6CQEmXAVtRRHQ4fmHfQ9193yxDdO		

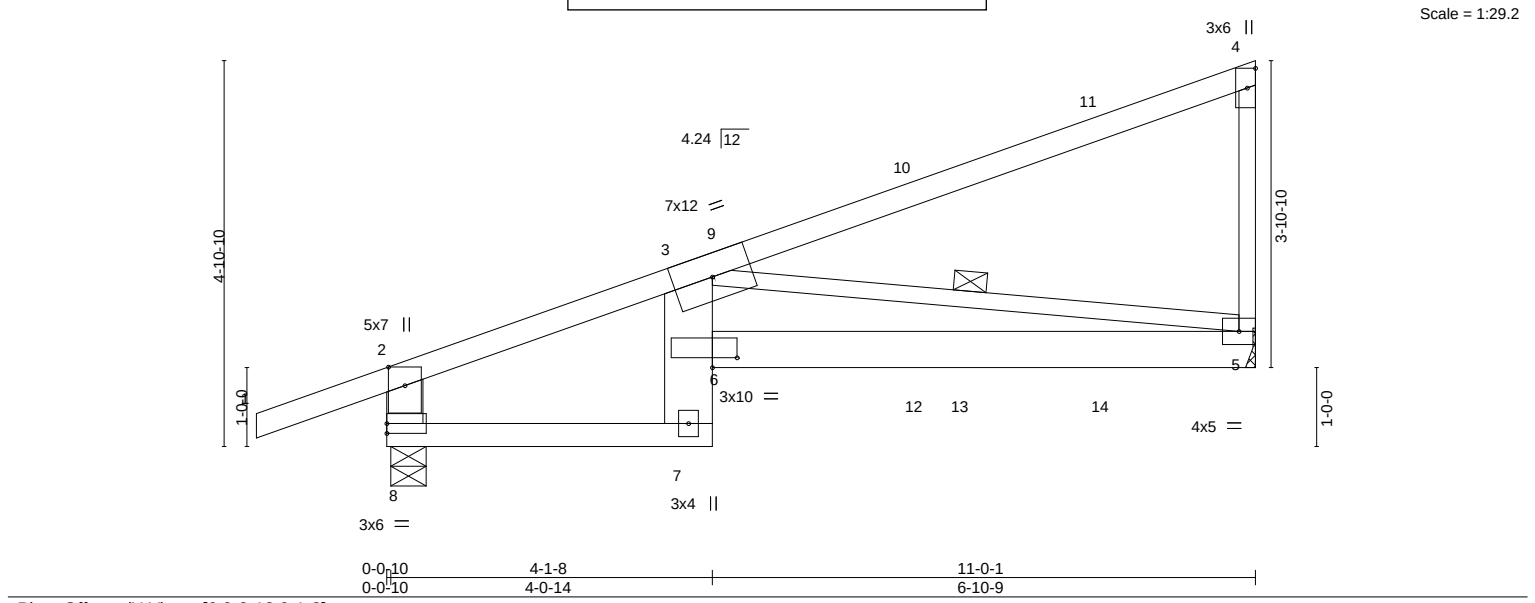


Plate Offsets (X,Y)--		[6:0-3-12,0-1-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 1.00	Vert(LL) -0.14 5-6 >909 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.66	Vert(CT) -0.26 5-6 >498 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.92	Horz(CT) 0.05 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.15 5-6 >848 240	Weight: 47 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
3-7: 2x8 SP DSS, 5-6: 2x6 SPF 1650F 1.4E	WEBS 1 Row at midpt 3-5
WEBS 2x3 SPF No.2 *Except*	
2-8: 2x6 SPF No.2	

REACTIONS. (size) 8=0-5-6, 5=Mechanical
 Max Horz 8=196(LC 5)
 Max Uplift 8=227(LC 4), 5=273(LC 8)
 Max Grav 8=744(LC 1), 5=741(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-638/230, 2-3=-731/193
 BOT CHORD 7-8=-262/596, 3-6=-2/250, 5-6=-763/1988
 WEBS 3-5=-1956/758

- 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
 - 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 will fit between the bottom chord and any other members.
 - 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) except (it=lb) 8=227, 5=273.
 - 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 103 lb down and 68 lb up at 3-6-14, 85 lb down and 48 lb up at 4-4-14, and 91 lb down and 55 lb up at 6-9-3, and 121 lb down and 91 lb up at 9-1-8 on top chord, and 13 lb down at 3-9-14, 39 lb down and 49 lb up at 6-9-3, and 251 lb down and 109 lb up at 7-4-3, and 47 lb down and 42 lb up at 9-1-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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, 2-4=-70, 7-8=-20, 5-6=-20



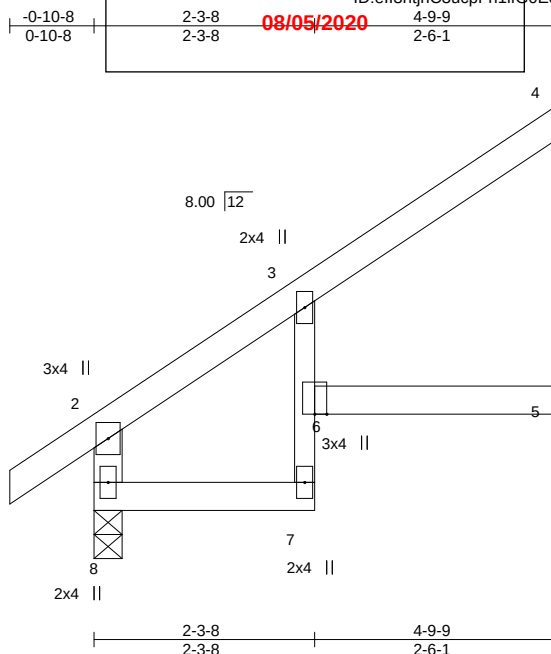
July 17,2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION		
400422	J26	Diagonal Hip	Girder	Ply	Lot 77 RR
			AS NOTED ON PLANS REVIEW		I42065442
			DEVELOPMENT SERVICES		Job Reference (optional)
			LEE'S SUMMIT, MISSOURI		
			ID:eII3htjhC3ucpFh1ifG0EcZUTUF-OJLT0YN0KAmY4TT6CQEmXAVtRRHQ4fmHfQ9193yxDdO		
			08/05/2020		
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:17 2020 Page 2		
LOAD CASE(S) Standard					
Concentrated Loads (lb)					
Vert: 7=-6(F) 9=-4(B) 10=-9(B) 11=-48(B) 12=-31(B) 13=-251(F) 14=-44(B)					



Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020		Ply	Lot 77 RR	I42065443
400422	J27	Jack-Open			1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871



Scale: 1/2"=1'

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 0.24	Vert(LL)	-0.03	6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	-0.06	7	>942	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.03	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.05	6	>999	240	Weight: 16 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 8=138(LC 8)
Max Uplift 8=-1(LC 8), 4=-81(LC 8), 5=-19(LC 8)
Max Grav 8=286(LC 1), 4=140(LC 15), 5=76(LC 3)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-262/38

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) 8, 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17, 2020

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

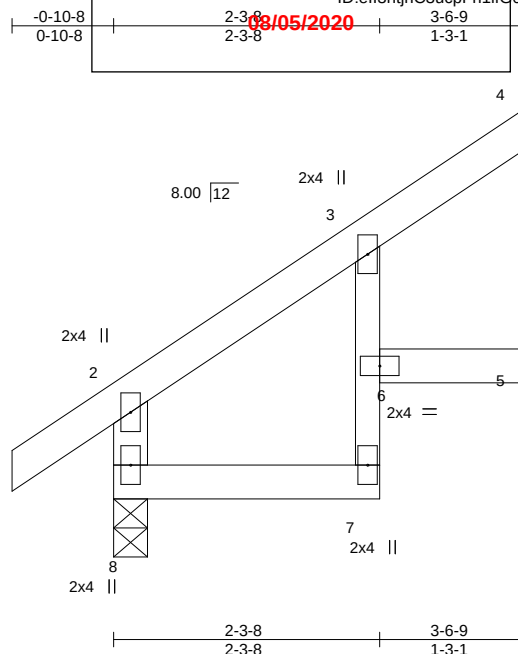
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020			Ply	Lot 77 RR	I42065444
400422	J28	Jack-Open				1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871



Scale = 1:19.8

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 0.10	Vert(LL)	-0.01	6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	-0.01	7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01	6	>999	240		
									Weight: 12 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

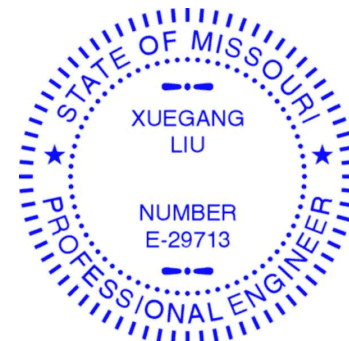
REACTIONS.

(size) 8=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 8=104(LC 8)
Max Uplift 8=-2(LC 8), 4=-48(LC 8), 5=-30(LC 8)
Max Grav 8=233(LC 1), 4=90(LC 15), 5=64(LC 15)

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
- 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 will fit between the bottom chord and any other members.
- 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, 4, 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job
400422

Truss
J29

Truss Type
Jack-Open

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

08/05/2020

Ply
1

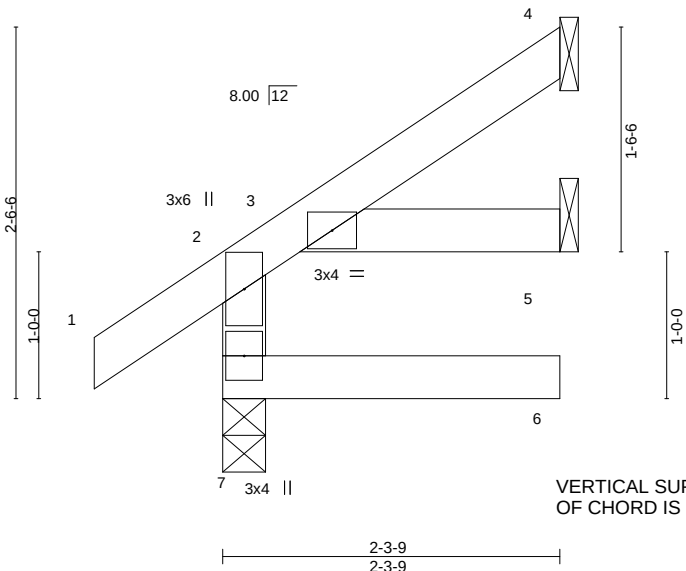
Lot 77 RR

Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:19 2020 Page 1

ID:ell3htjhC3ucpFh1fG0EcZUTUF-LiTEDDOGn0GKndVKrGEcbaQzF5dYnea6ke8EyyxDdM



VERTICAL SUPPORT OF FREE END OF CHORD IS REQUIRED.

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 0.16	Vert(LL)	-0.05	6	>552	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.09	6	>278	240	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.02	5	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.03	6	>933	240	
								Weight: 10 lb	FT = 10%

LUMBER-

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

BRACING-

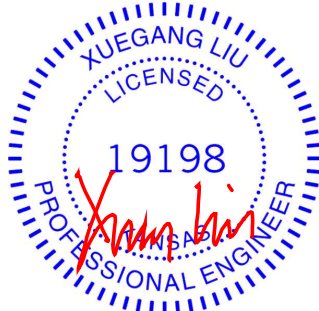
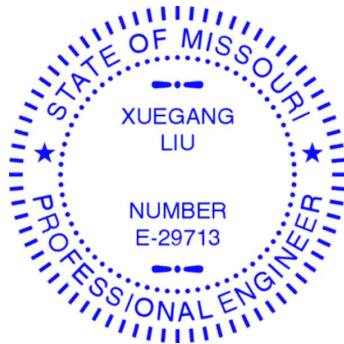
TOP CHORD Structural wood sheathing directly applied or 2-3-9 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 4=Mechanical, 5=Mechanical
 Max Horz 7=70(LC 8)
 Max Uplift 4=-39(LC 8), 5=-3(LC 8)
 Max Grav 7=197(LC 1), 4=71(LC 15), 5=60(LC 3)

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

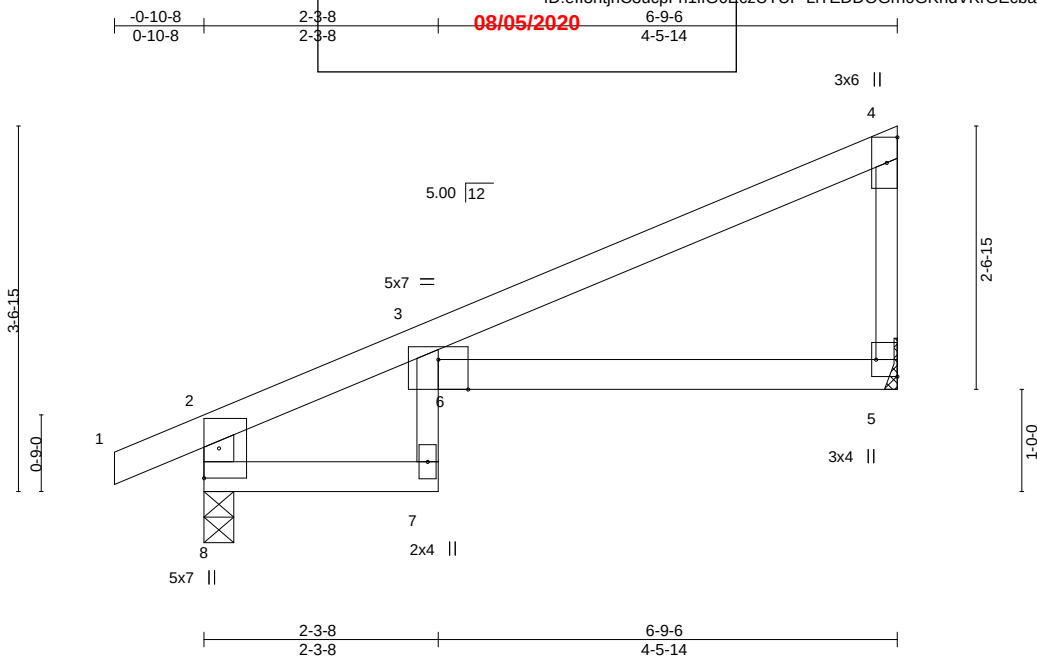
NOTES-

- 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) 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17,2020

Job 400422	Truss J30	Truss Type Jack-Closed	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Lot 77 RR 142065446
Wheeler Lumber, Waverly, KS 66871			ID: ell3htjhC3ucpFh1ifG0EcZUTUF-LITEDDOGm0GKndVKrGEcbaK6F?NYnea6ke8EyyxDdM 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:19 2020 Page 1		



Scale = 1:22.5

Plate Offsets (X,Y)--		[3:0-3-8,Edge], [5:Edge,0-2-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.54
TCDL 10.0	Lumber DOL	1.15	BC 0.57
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.11 5-6 >686 360
			Vert(CT) -0.21 5-6 >380 240
			Horz(CT) 0.10 5 n/a n/a
			Wind(LL) 0.12 5-6 >670 240
			PLATES
			MT20
			GRIP
			197/144
			Weight: 20 lb FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

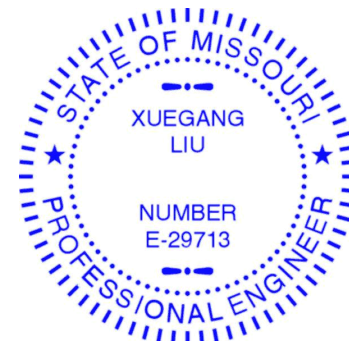
(size) 8=0-3-8, 5=Mechanical
 Max Horz 8=131(LC 5)
 Max Uplift 8=62(LC 8), 5=-71(LC 8)
 Max Grav 8=371(LC 1), 5=288(LC 1)

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

TOP CHORD 2-8=-359/86, 2-3=-284/36

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
- 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 will fit between the bottom chord and any other members.
- 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, 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17, 2020

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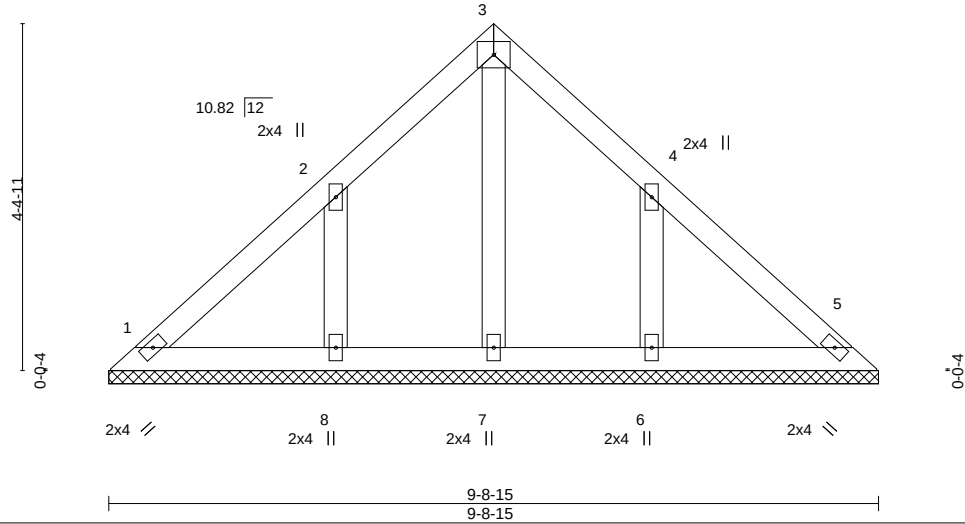
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400422	Truss LAY2	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/05/2020		Lot 77 RR Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:24 2020 Page 1 ID:eII3htjhC3ucpFh1ifG0EdzUTUF-hfG7GxSPgKfYQYVS7OsPJeHIBGqmD2RJG0Lv9xDdH
Wheeler Lumber, Waverly, KS 66871					

Scale = 1:29.2



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)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 34 lb	FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 9-8-15.
 (lb) - Max Horz 1=106(LC 5)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=138(LC 8), 6=137(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=268(LC 15), 6=268(LC 16)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=138, 6=137.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17, 2020

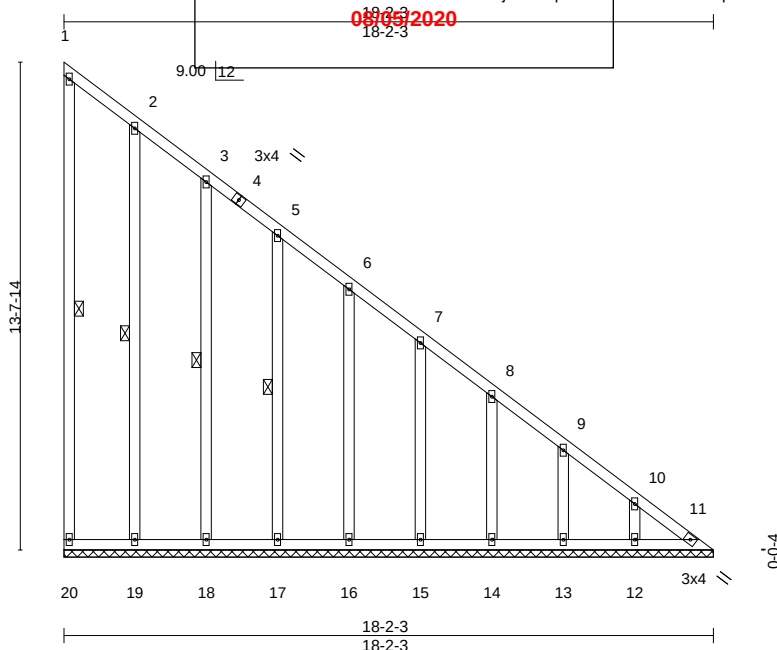
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Wheeler Lumber,	Waverly, KS 66871	LEE'S SUMMIT, MISSOURI	8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:25 2020 Page 1
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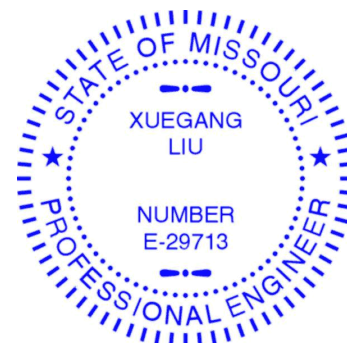
LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 1-20, 2-19, 3-18, 5-17
OTHERS	2x4 SPF No.2		

REACTIONS. All bearings 18-2-3.
(lb) - Max Horz 20=-539(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 20, 19, 18, 17, 16, 15, 14, 13, 12 except 11=-103(LC 7)
Max Grav All reactions 250 lb or less at joint(s) 20, 19, 18, 17, 16, 15, 14, 13, 12 except 11=378(LC 9)

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

TOP CHORD	5-6=-269/106, 6-7=-345/134, 7-8=-422/161, 8-9=-499/189, 9-10=-575/216, 10-11=-650/245
BOT CHORD	19-20=-194/539, 18-19=-194/539, 17-18=-194/539, 16-17=-194/539, 15-16=-194/539, 14-15=-194/539, 13-14=-194/539, 12-13=-194/539, 11-12=-194/539

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDD=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical right 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) 20, 19, 18, 17, 16, 15, 14, 13, 12 except (jt=lb) 11=103.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17, 2020

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Job	Truss	Truss Type	Lot 77 RR	
400422	LAY4	GABLE		I42065449

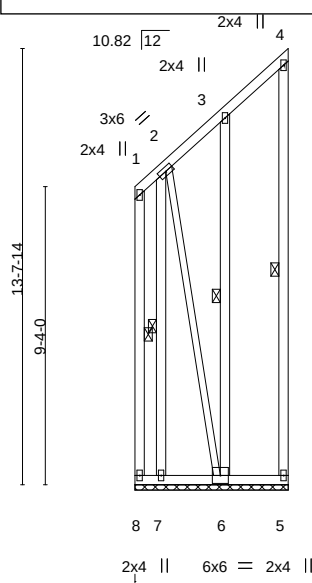
**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI**

Wheeler Lumber, Waverly, KS 66871

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:26 2020 Page 1
ID:e1l3htjhC3ucpFh1fG0EcZUTUF-e2OthdUfCvxGfsfrEputO3Nch3WThm9cjKq0_2yxDdF

08/05/2020

Scale = 1:72.1



LOADING (psf)	SPACING-	2-0-0	CSI.	2x4	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.13		Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03		Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.72		Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P							
									Weight: 70 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
2-6: 2x3 SPF No.2
OTHERS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 1-8, 4-5, 2-7, 3-6

REACTIONS.

All bearings 4-9-9.
(lb) - Max Horz 8=166(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 8, 5 except 7=-150(LC 6), 6=-821(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 8, 5 except 7=633(LC 8), 6=408(LC 15)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-7=-613/183, 2-6=-289/808

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; 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) 8, 5 except (jt=lb) 7=150, 6=821.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

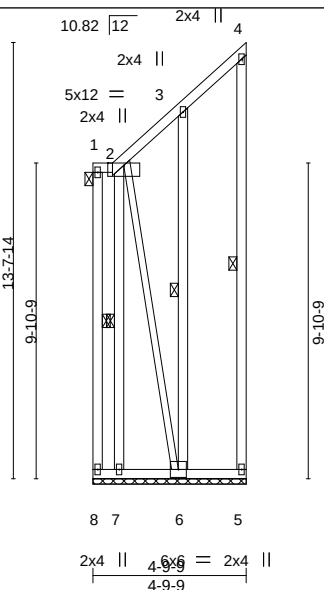
Job	Truss	Truss Type	Lot 77 RR	142065450
400422	LAY5	GABLE	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

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

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:26 2020 Page 1
ID:ell3htjhC3ucpFh1fG0EcZUTUF-e2OthdUfCvxGfsrEputO3Nep3WThnKcjKq0_2yxDdF

08/05/2020



Scale = 1:72.1

LOADING (psf)	SPACING-	2-0-0	CSI.	2x4	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06		Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03		Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.64		Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P							
									Weight: 70 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
2-6: 2x3 SPF No.2
OTHERS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-9 oc purlins, except end verticals, and 2-0-0 oc purlins: 1-2.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 1-8, 4-5, 2-7, 3-6

REACTIONS.

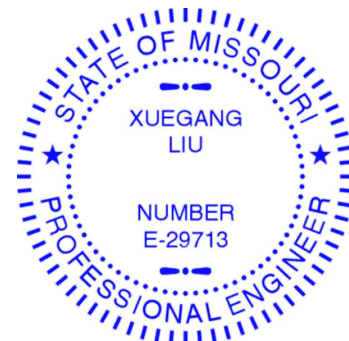
All bearings 4-9-9.
(lb) - Max Horz 8=146(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 8, 5 except 7=232(LC 6), 6=814(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 8, 5 except 7=791(LC 8), 6=413(LC 15)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-7=772/264, 2-6=259/719

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; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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, 5 except (jt=lb) 7=232, 6=814.
- 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.



July 17, 2020

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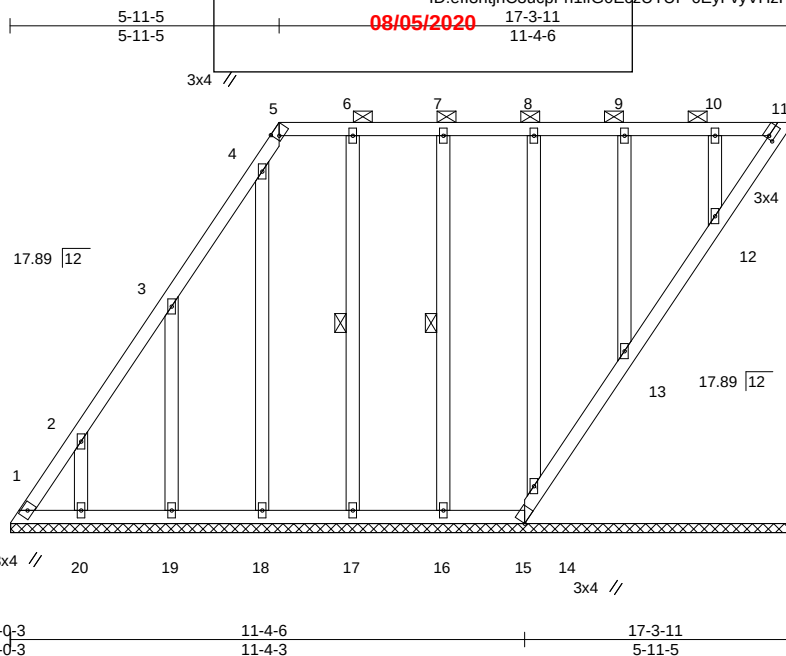


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400422	Truss LAY6	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	Lot 77 RR I42065451
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Wheeler Lumber, Waverly, KS 66871

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:27 2020 Page 1
ID: eII3htjhC3ucpFh1ifG0EczUTUF-6EyFvyVHZF17H0E1oWQ6xGvoRTscQM9ly_aZWUyxDdE



Scale = 1:50.9

Plate Offsets (X,Y)-- [5:0-1-1,Edge], [11:0-0-13,0-1-8]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	PLATES
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	in (loc) l/defl L/d	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(LL) n/a - n/a 999	GRIP 197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Vert(CT) n/a - n/a 999	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Horz(CT) -0.00 11 n/a n/a	Weight: 101 lb FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-11.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-17, 7-16

REACTIONS.

All bearings 17-3-8.
(lb) - Max Horz 1=350(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 11, 15, 18, 17, 16, 14, 13, 12 except 1=158(LC 6), 20=192(LC 8), 19=240(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 11, 15, 20, 18, 17, 16, 14, 13, 12 except 1=398(LC 8), 19=260(LC 15)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-487/232, 2-3=-304/152
WEBS 3-19=-220/265

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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 will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 15, 18, 17, 16, 14, 13, 12 except (jt=lb) 1=158, 20=192, 19=240.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 11, 14, 13, 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 17, 2020

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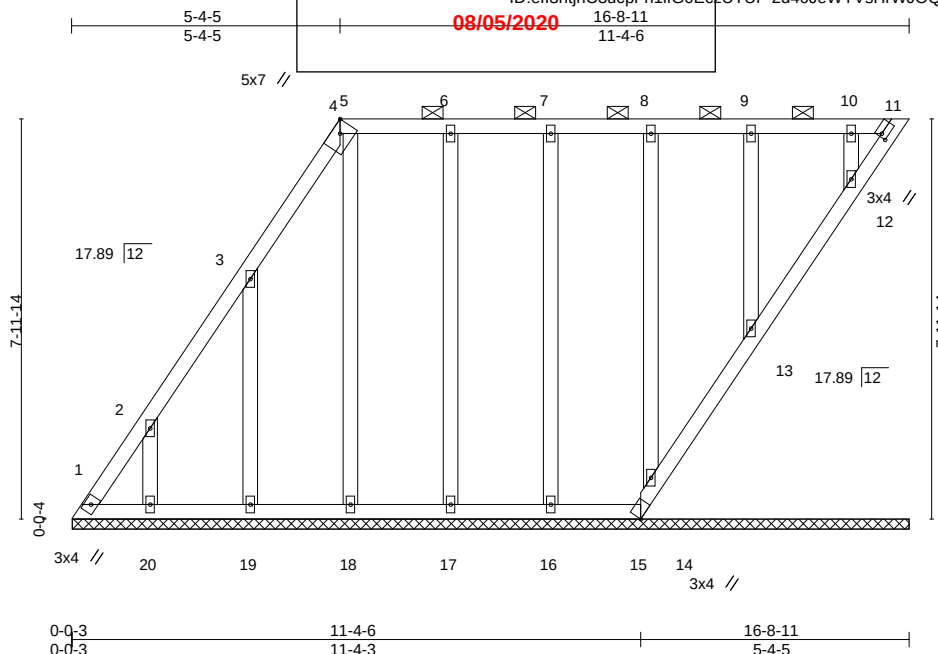
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400422	Truss LAY7	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	Lot 77 RR I42065452
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Wheeler Lumber, Waverly, KS 66871

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:29 2020 Page 1
ID:ell3htjhC3ucpFh1ifG0Ec2UTUF-2d40JeWYVsHrWJOQvxSa0h?96HX3uGg2PH3gbNyxDdC

08/05/2020



Scale = 1:46.0

Plate Offsets (X,Y)-- [4:0-2-15,Edge], [11:0-0-13,0-1-8]					
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.06	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.16	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 11 n/a n/a		
	Code IRC2018/TPI2014			Weight: 94 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-11.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.

REACTIONS.

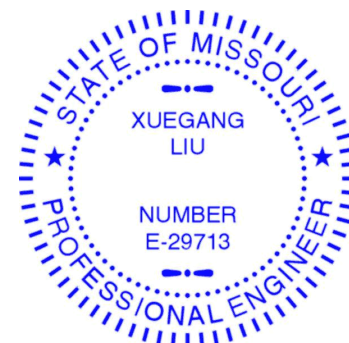
All bearings 16-8-8.
(lb) - Max Horz 1=314(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 11, 15, 18, 17, 16, 14, 13, 12 except 1=119(LC 6), 20=197(LC 8), 19=224(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 11, 15, 20, 18, 17, 16, 14, 13, 12 except 1=327(LC 8), 19=251(LC 15)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-402/185

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 15, 18, 17, 16, 14, 13, 12 except (jt=lb) 1=119, 20=197, 19=224.
- Non Standard bearing condition. Review required.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 17, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Lot 77 RR	
400422	V5	Valley		I42065453

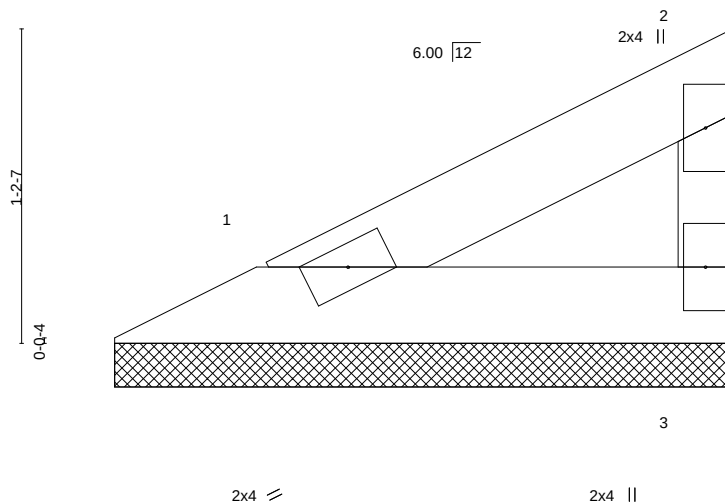
Wheeler Lumber, Waverly, KS 66871

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

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:29 2020 Page 1
ID: e1l3htjhC3ucpFh1ifG0EczUTUF-2d40JeWYVSHrWJOQvxSa0h?9KHXCul62PH3gbNyxDDC

08/05/2020

Scale = 1:8.8



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 0.04	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a	999	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						
								Weight: 5 lb	FT = 10%

LUMBER-

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

BRACING-

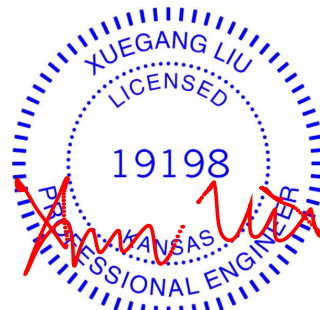
TOP CHORD Structural wood sheathing directly applied or 2-4-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-4-5, 3=2-4-5
Max Horz 1=35(LC 5)
Max Uplift 1=-10(LC 8), 3=-18(LC 8)
Max Grav 1=75(LC 1), 3=75(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.
- 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.



July 17, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job
400422

Truss
V6

Truss Type
Valley

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

08/05/2020

Ply
1

Lot 77 RR

Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:30 2020 Page 1

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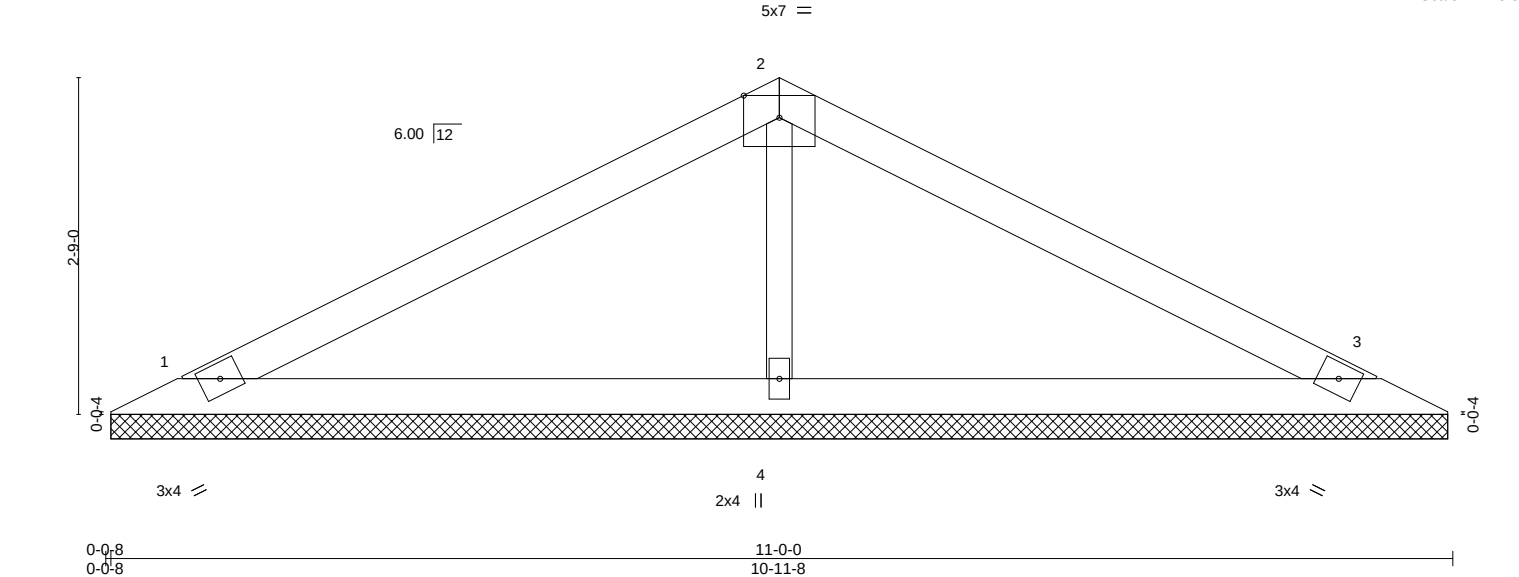
5-6-0

5-6-0

11-0-0

5-6-0

Scale = 1:18.8



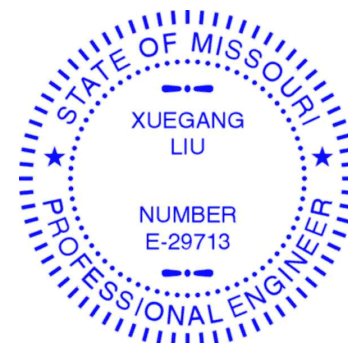
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							
								Weight: 27 lb		FT = 10%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x3 SPF No.2		

REACTIONS. (size) 1=10-11-0, 3=10-11-0, 4=10-11-0
Max Horz 1=-43(LC 9)
Max Uplift 1=-42(LC 8), 3=-50(LC 9), 4=-26(LC 8)
Max Grav 1=207(LC 21), 3=207(LC 22), 4=465(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-318/83

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=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
 - Gable requires continuous bottom chord bearing.
 - 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 will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17,2020

Job
400422

Truss
V7

Truss Type
Valley

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

08/05/2020

Ply
1

Lot 77 RR

Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

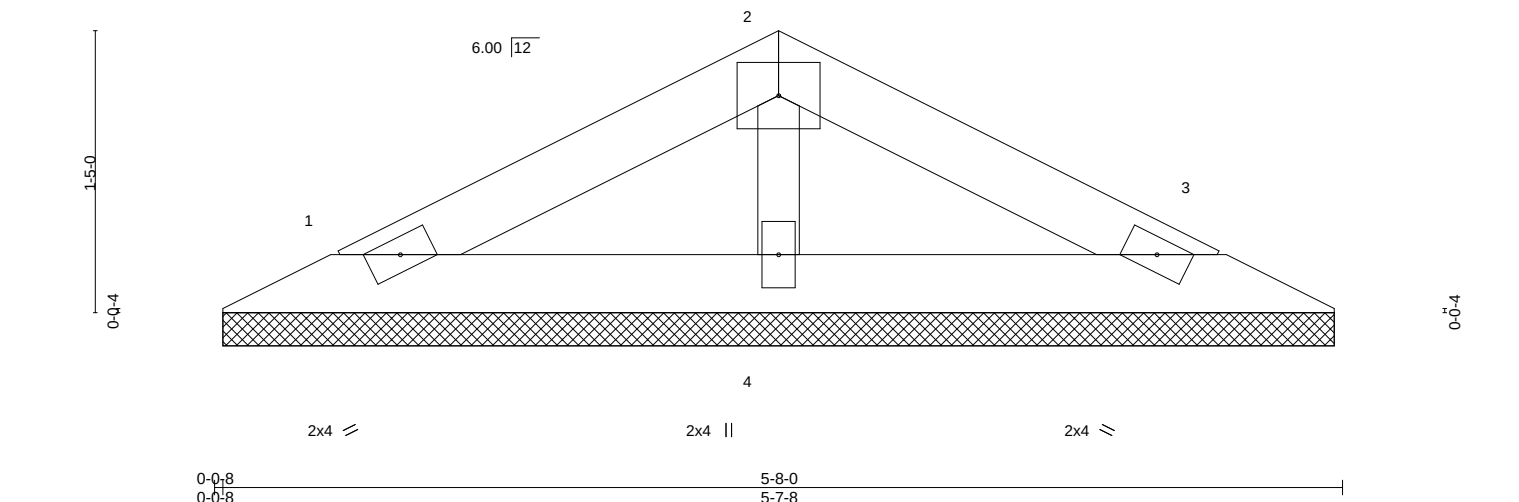
2-10-0
2-10-0

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jul 17 07:59:31 2020 Page 1

ID: eII3htjhC3ucpFh1ifG0Ec2UTUF-?BmkKY01TXZmdXp1MU2564UD4DPMCEltbYnfFyxDdA

5-8-0
2-10-0

Scale = 1:11.6



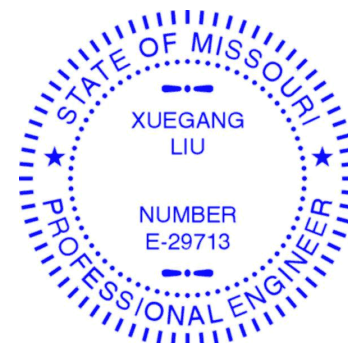
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 13 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-8-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x3 SPF No.2	

REACTIONS. (size) 1=5-7-0, 3=5-7-0, 4=5-7-0
Max Horz 1=20(LC 8)
Max Uplift 1=24(LC 8), 3=27(LC 9), 4=2(LC 8)
Max Grav 1=104(LC 1), 3=104(LC 1), 4=189(LC 1)

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

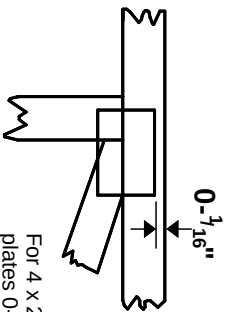
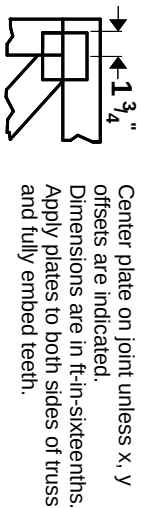
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - 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 will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 17, 2020

Symbols

PLATE LOCATION AND ORIENTATION



For 4 x 2 orientation, locate plates 0- $\frac{3}{16}$ " from outside edge of truss.

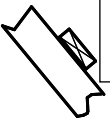
This symbol indicates the required direction of slots in connector plates.

Plate location details available in **MiTek 20120** software or upon request.

PLATE SIZE

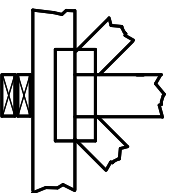
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)

