

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

Re: 2387107

Summit/Stoney Creek #86

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Valley Center).

Pages or sheets covered by this seal: I41826257 thru I41826347

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

Missouri COA: Engineering 001193



June 26,2020

Sevier, Scott

,Engineer

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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826257 2387107 A1 Roof Special Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:07:49 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

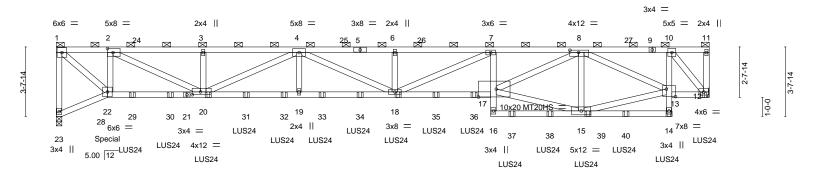
ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-jnOJJvloZ5BnkhGzoWxxpGj6LXPxKa14NUTpg?z2Q2O 27-7-12

2-0-0 oc purlins (3-8-0 max.): 1-11, except end verticals.

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

34-4-10 22-10-8 32-5-0 5-0-9 5-0-9 5-0-9 5-0-9 4-9-4 4-9-4 1-11-10

Scale = 1:60.7



2-8-5 7-8 2-8-5 5-6		9-6 )-9	17-9-15 5-0-9	22-10-8 5-0-9	27-7-12 4-9-4	32-5-0 4-9-4	34-4-10 1-11-10	
Plate Offsets (X,Y) [2:0-3-8,	0-2-8], [8:0-5-8,0-1-8], [1	3:0-5-12,0-4-1	2], [17:0-11-4,0-5-0	], [20:0-5-4,0-1-12]				
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO	CSI. TC 0.67 BC 0.76 WB 0.83	Vert(CT)	in (loc) I/defl -0.62 17-18 >661 -1.05 17-18 >388 0.27 12 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS	<b>GRIP</b> 197/144 148/108
BCDL 10.0	Code IRC2018/T	PI2014	Matrix-MS				Weight: 323 lb	FT = 20%

**BOT CHORD** 

LUMBER-**BRACING-**TOP CHORD

2x4 SPF 1650F 1.5E \*Except\* TOP CHORD 9-11: 2x4 SPF No.2

**BOT CHORD** 2x4 SPF No.2 \*Except\* 17-21: 2x4 SP 2400F 2.0E

**WEBS** 2x4 SPF No.2

REACTIONS. 23=0-3-8, 12=Mechanical (size)

Max Horz 23=-103(LC 8)

Max Uplift 23=-598(LC 10), 12=-597(LC 10) Max Grav 23=3660(LC 1), 12=3522(LC 1)

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

TOP CHORD 1-23=-3612/598, 1-2=-3570/639, 2-3=-8878/1537, 3-4=-8878/1537, 4-6=-12623/2168, 6-7=-12623/2168, 7-8=-11588/1990, 8-10=-2773/496

**BOT CHORD** 20-22=-615/3739, 19-20=-1986/11840, 18-19=-1986/11840, 17-18=-1989/11901,

16-17=-38/289, 7-17=-630/129, 15-16=-91/543, 14-15=-49/326, 13-14=-58/377,

10-13=-511/3132, 12-13=-448/2790

**WEBS** 1-22=-816/4853, 2-22=-2752/483, 2-20=-964/5706, 3-20=-336/88, 4-20=-3272/555, 4-19=-94/700, 4-18=-173/864, 6-18=-340/88, 7-18=-170/813, 15-17=-843/5108,

8-17=-1137/6742, 8-15=-1962/350, 13-15=-887/5332, 8-13=-3007/515, 10-12=-4287/724

# NOTES-

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

Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.

Bottom chords connected as follows: 2x4 - 1 row at 0-6-0 oc.

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Bearing at joint(s) 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

### Continued on page 2



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 permanent. 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



RELEASE FOR CONSTRUCTION

D ON PLANS REVIES ADMINISTRATION MIT, MISSOURI MiTek

16023 Swingley Riage Ru Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/Stoney Creek #86	
2387107	A1	Roof Special Girder	1	2	Job Reference (optional)	141826257

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:07:49 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-jnOJJvloZ5BnkhGzoWxxpGj6LXPxKa14NUTpg?z2Q2O

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 598 lb uplift at joint 23 and 597 lb uplift at joint 12.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-3-4 oc max. starting at 4-0-0 from the left end to 34-2-14 to connect truss(es) to front face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 254 lb down and 43 lb up at 0-1-12 on top chord, and 252 lb down and 68 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-11=-61, 22-23=-20, 17-22=-20, 14-16=-20, 12-13=-20

Concentrated Loads (lb)

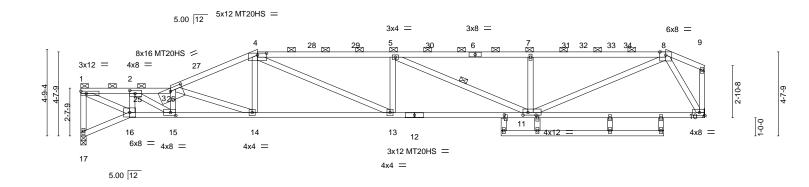
Vert: 1=-254 12=-262(F) 14=-223(F) 20=-254(F) 18=-254(F) 28=-252(F) 29=-254(F) 30=-254(F) 31=-254(F) 32=-254(F) 33=-254(F) 34=-254(F) 35=-254(F) 35=-254(F 36=-254(F) 37=-223(F) 38=-223(F) 39=-223(F) 40=-223(F)

> RELEASE FOR CONSTRUCTION NOTED ON PLANS REVIE OD TO MINISTRATION FROM MIT, MISSOURI



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017 Job Truss Truss Type Qty Summit/Stoney Creek #86 141826258 2387107 A2 Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:07:51 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-f9W4kbJ35iRVz?QLwxzPvhpPHL3BoVuMqoywktz2Q2M

Scale: 3/16"=1'



				25-2-0			
2-8-5 4-1	11-4 9-8-13	17-2-4	23-2-0	24-9-7	29-2-0	32-1-8 34-4-10	
2-8-5 2-2	2-15 4-9-9	7-5-7	5-11-12	1-7-7 0-4-9	4-0-0	2-11-8 2-3-2	
Plate Offsets (X,Y) [2:0-3-8,0	0-2-0], [3:0-8-0,0-1-15], [4:0-6-0,0-1-5],	[11:0-3-4,0-1-12], [11:0-1-	12,0-1-0], [15:0-3-	8,0-2-0], [18:0-2-0	),0-0-0]		
TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.84 BC 0.78 WB 0.74	DEFL. Vert(LL) Vert(CT) Horz(CT)	-0.38 13 >	/defl L/d 999 240 600 180 n/a n/a	PLATES MT20 MT20HS	<b>GRIP</b> 197/144 148/108
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS				Weight: 157 lb	FT = 20%

LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 \*Except\* TOP CHORD

4-9-9

4-6: 2x4 SP 2400F 2.0E, 6-8: 2x4 SPF 1650F 1.5E

2-0-0 oc purlins (2-2-0 max.): 1-3, 4-8. 2x4 SPF No.2 \*Except\* **BOT CHORD** 

**BOT CHORD** Rigid ceiling directly applied. 12-16,10-12: 2x4 SPF 1650F 1.5E **WEBS** 1 Row at midpt

**WEBS** 2x4 SPF No.2

REACTIONS. (size) 17=0-3-8, 10=Mechanical

Max Horz 17=111(LC 13)

Max Uplift 17=-124(LC 16), 10=-125(LC 16)

Max Grav 17=1566(LC 40), 10=1615(LC 40)

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

TOP CHORD  $1-17 = -1530/225, \ 1-2 = -2704/411, \ 2-3 = -4562/633, \ 3-4 = -3571/450, \ 4-5 = -4381/493, \ 4-5 = -438$ 

5-7=-3611/385, 7-8=-3614/386

BOT CHORD 15-16=-517/2850, 14-15=-705/4449, 13-14=-462/3274, 11-13=-509/4378, 10-11=-159/977 **WEBS** 

1-16=-419/3018, 2-16=-1349/187, 2-15=-239/2033, 3-15=-1044/153, 3-14=-1287/253,

4-14=-20/535, 4-13=-88/1213, 5-13=-363/99, 5-11=-838/117, 8-10=-1842/310,

7-11=-683/141, 8-11=-267/2894

### NOTES-

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

- 1) Orbital ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-8-13, Exterior(2R) 9-8-13 to 12-8-13, Interior(1) 12-8-13 to 32-2-14, Exterior(2E) 32-2-14 to 34-2-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 17 and 125 lb uplift at joint 10.
- 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.

Continued on page 2





Structural wood sheathing directly applied, except end verticals, and

RELEASE FOR CONSTRUCTION OTED ON PLANS REVIE DAS ADMINISTRATION

IMIT, MISSOURI MiTek 16023 Swingley Riage Ru Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/Stoney Creek #86	
					I41826258	
2387107	A2	Roof Special	1	1		
					Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:07:51 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-f9W4kbJ35iRVz?QLwxzPvhpPHL3BoVuMqoywktz2Q2M

### NOTES-

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

RELEASE FOR CONSTRUCTION



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826259 2387107 **A3** Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:07:53 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-bYeq9GLJdKiDCJak1L0t\_6uoN8jMGT7fl5R1pmz2Q2K

5-7-3

23-4-0

5-7-3

29-10-1

6-6-1

31-11-4 34-4-10

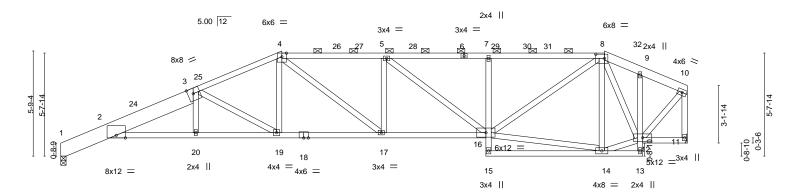
2-5-6

2-1-3

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (2-8-13 max.): 4-8.

Scale = 1:63.2



2-8-5 2-8-5		7-4-15 4-8-10	12-1-10 4-8-10	17-8-13 5-7-3	23-4-0 5-7-3		29-10-1 6-6-1	<del> </del>	31-11-4 34-4-10 2-1-3 2-5-6	
Plate Offsets (X,Y)	[3:0-3-8,	Edge], [8:0-5-12,0	)-2-12]							
Snow (Pf/Pg) 20.4/20 TCDL 1	25.0 0.0 0.0 0.0	SPACING Plate Grip Lumber De Rep Stres	DOL 1.15 OL 1.15	CSI. TC 0.61 BC 0.92 WB 0.50	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.26 17-19 -0.49 17-19 0.23 11	l/defl >999 >841 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 197/144
	0.0	Code IRC	2018/TPI2014	Matrix-AS					Weight: 182 lb	FT = 20%

TOP CHORD

LUMBER-**BRACING-**

2x4 SPF No.2 \*Except\* TOP CHORD 8-10: 2x6 SPF No.2, 1-3: 2x10 SP 2400F 2.0E

4-8-10

4-8-10

**BOT CHORD** 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied. **WEBS** 2x4 SPF No.2

REACTIONS. (size) 11=Mechanical, 1=0-3-8

Max Horz 1=134(LC 15)

Max Uplift 11=-125(LC 16), 1=-116(LC 16) Max Grav 11=1536(LC 2), 1=1552(LC 2)

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

1-2=-588/78, 2-3=-3791/455, 3-4=-3046/384, 4-5=-3054/398, 5-7=-2690/350, TOP CHORD

7-8=-2679/352, 8-9=-955/183, 9-10=-1009/162, 10-11=-1484/195

**BOT CHORD** 2-20=-516/3619, 19-20=-514/3625, 17-19=-362/2745, 16-17=-377/3052, 7-16=-524/114 **WEBS** 

3-19=-1071/170, 4-19=-35/594, 4-17=-39/620, 5-17=-255/99, 5-16=-540/59,

14-16=-156/1028, 8-16=-218/1867, 8-14=-460/128, 12-14=-130/1135, 8-12=-706/57,

10-12=-167/1332

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-4-11, Interior(1) 3-4-11 to 12-1-10, Exterior(2R) 12-1-10 to 16-4-8, Interior(1) 16-4-8 to 29-10-1, Exterior(2E) 29-10-1 to 34-2-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 11 and 116 lb uplift at joint 1.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



RELEASE FOR CONSTRUCTION

D ON PLANS REVIE B ADMINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge RO Chesterfield, MO 63017

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826260 2387107 A4 Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:07:55 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-YwlbayMZ9xyxSck79m2L3Xz5cyOgkG8ylPw7tfz2Q2l

6-4-9

27-4-6

6-4-9

7-3-10

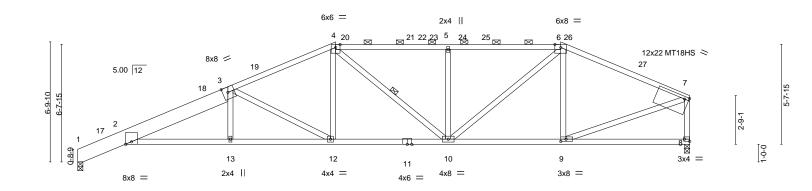
Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (3-1-9 max.): 4-6.

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:65.3



L	2-8-5	8-7-13	14-7-5	20-11-13		27-4-6		34-8-0		
	2-8-5	5-11-8	5-11-8	6-4-9		6-4-9		7-3-10		
Plate Offsets (2	X,Y) [3:0	-3-8,Edge], [7:0-3-0,0-1-1	2], [8:Edge,0-1-8], [	9:0-3-8,0-1-8]						
LOADING (ps TCLL (roof) Snow (Pf/Pg) TCDL BCLL	25.0	SPACING- Plate Grip DO Lumber DOL Rep Stress Ir	1.15	CSI. TC 0.82 BC 1.00 WB 0.92	DEFL. Vert(LL) Vert(CT) Horz(CT	in (loc) -0.24 13 -0.44 12-13 0.20 8	>999 >935	L/d 240 180 n/a	PLATES MT20 MT18HS	<b>GRIP</b> 197/144 197/144
BCDL	10.0	Code IRC20	18/TPI2014	Matrix-AS					Weight: 162 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

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

1-3: 2x10 SP 2400F 2.0E

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

**WEBS** 2x4 SPF No.2

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

Max Horz 1=143(LC 15)

Max Uplift 1=-117(LC 16), 8=-126(LC 16) Max Grav 1=1565(LC 2), 8=1548(LC 2)

5-11-8

5-11-8

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

1-2=-593/70, 2-3=-3619/436, 3-4=-2727/360, 4-5=-2428/354, 5-6=-2428/354, TOP CHORD

6-7=-1881/258 7-8=-1478/219

**BOT CHORD** 2-13=-480/3423, 12-13=-478/3429, 10-12=-310/2432, 9-10=-211/1667 **WEBS** 

3-12=-1239/186, 4-12=-30/673, 5-10=-641/123, 6-10=-118/1078, 6-9=-420/123,

7-9=-178/1647

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-4-11, Interior(1) 3-4-11 to 14-7-5, Exterior(2R) 14-7-5 to 18-10-3, Interior(1) 18-10-3 to 27-4-6, Exterior(2R) 27-4-6 to 31-7-5, Interior(1) 31-7-5 to 34-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 1 and 126 lb uplift at joint 8.
- 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.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



RELEASE FOR CONSTRUCTION D ON PLANS REVIES

ADMINISTRATION

IMIT, MISSOURI MiTek 16023 Swingley Riage Ru Chesterfield, MO 63017

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826261 B1 2387107 Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:07:56 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-07JznINBwF4o3mJJjUZackWHbMIVTn65\_3ghP5z2Q2H 20-11-13 25-0-8 29-8-8 34-8-0

4-0-10

4-0-10

4-8-0

Structural wood sheathing directly applied, except end verticals, and

3-12, 7-9

2-0-0 oc purlins (3-9-15 max.): 4-6.

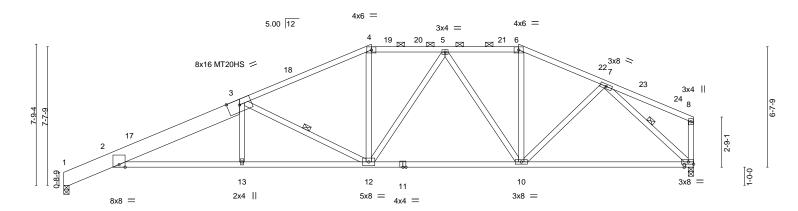
Rigid ceiling directly applied.

1 Row at midpt

4-11-8

7-1-7

Scale: 3/16"=1'



2-8-5	9-9-12	16-1	-	25-0-8			34-8		
2-8-5	7-1-7	7-1-	1-7 '	8-1-4			9-7-	-8 '	
LOADING (psf)       TCLL (roof)     25.0       Snow (Pf/Pg)     20.4/20.0       TCDL     10.0       BCLL     0.0       BCDL     10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.74 BC 0.89 WB 0.68 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.25 13-16 -0.47 13-16 0.22 9	l/defl >999 >878 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 169 lb	<b>GRIP</b> 197/144 148/108  FT = 20%

BRACING-

TOP CHORD

BOT CHORD

**WEBS** 

LUMBER-TOP CHORD 2x4 \$

2x4 SPF No.2 \*Except\*

1-3: 2x10 SP 2400F 2.0E

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

**REACTIONS.** (size) 9=0-3-8, 1=0-3-8

Max Horz 1=159(LC 15) Max Uplift 9=-126(LC 16), 1=-117(LC 16) Max Grav 9=1548(LC 2), 1=1565(LC 2)

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

TOP CHORD 1-2=-594/70, 2-3=-3454/419, 3-4=-2410/336, 4-5=-2122/340, 5-6=-1689/286,

6-7=-1893/286

BOT CHORD 2-13=-452/3244, 12-13=-450/3251, 10-12=-255/2008, 9-10=-207/1413 WEBS 3-13=0/281, 3-12=-1381/208, 4-12=-20/518, 5-12=-64/329, 5-10=-668/109,

6-10=-22/406, 7-10=0/492, 7-9=-1849/265

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-4-11, Interior(1) 3-4-11 to 16-11-3, Exterior(2R) 16-11-3 to 20-11-13, Interior(1) 20-11-13 to 25-0-8, Exterior(2R) 25-0-8 to 29-3-6, Interior(1) 29-3-6 to 34-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 9 and 117 lb uplift at joint 1.
- referenced standard ANSI/TPI 1.

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



RELEASE FOR CONSTRUCTION

S NOTED ON PLANS REVIE CODE TO MINISTRATION LETY SIMMIT, MISSOURI MITEK

16023 Swingley Ridge Rd Chesterfield, MO 63017

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826262 2387107 B2 Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:07:58 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-yVRjC\_PSSsKVJ4Shqvb2h9beP9POxbqORN9nU\_z2Q2F

5-5-1

22-7-11

3-3-11

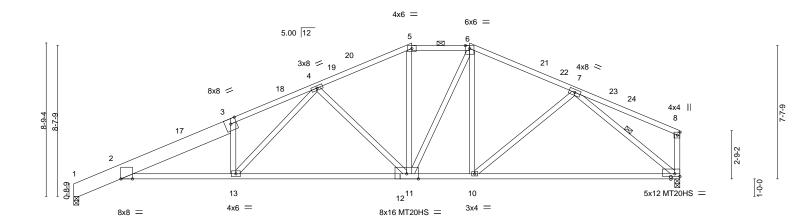
28-7-13

6-0-3

6-0-3

Structural wood sheathing directly applied, except end verticals, and

Scale = 1:65.9



2-8-5 2-8-5	9-1-8 6-5-3	19-4-0 10-2-8		-0-11 -5-0	28-7-13 4-7-3	-	34-8-0 6-0-3	<u> </u>	
Plate Offsets (X,Y) [2:0-7-15	,Edge], [9:Edge,0-1-12], [11:0-1-12	2,0-0-0], [12:0-0-0,0-1-12]							
LOADING (psf)   TCLL (roof)   25.0   Snow (Pf/Pg)   20.4/20.0   TCDL   10.0   BCLL   0.0   BCDL   10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.65 BC 1.00 WB 0.98 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.47 -0.97 0.22	(loc) l/def 9-10 >877 9-10 >424 9 n/a	7 240 1 180	MT MT	ATES 20 20HS eight: 171 lb	<b>GRIP</b> 197/144 148/108 FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

2-0-0 oc purlins (4-1-0 max.): 5-6.

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

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

1-3: 2x10 SP 2400F 2.0E

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

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

Max Horz 1=175(LC 15)

Max Uplift 9=-126(LC 16), 1=-117(LC 16) Max Grav 9=1664(LC 39), 1=1565(LC 2)

6-5-3

4-9-7

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

TOP CHORD 1-2=-604/69, 2-3=-3696/384, 3-4=-3806/465, 4-5=-2115/318, 5-6=-1864/317,

6-7=-1960/293, 8-9=-273/61

**BOT CHORD** 2-13=-424/3477, 11-13=-340/2599, 10-11=-180/1715, 9-10=-224/1631 **WEBS** 4-13=-113/1249, 4-11=-1019/182, 5-11=-41/508, 6-11=-71/471, 7-10=0/337,

7-9=-1974/285, 3-13=-712/159

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-4-11, Interior(1) 3-4-11 to 19-4-0, Exterior(2E) 19-4-0 to 22-7-11, Exterior(2R) 22-7-11 to 26-10-10, Interior(1) 26-10-10 to 34-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 9 and 117 lb uplift at joint 1.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



RELEASE FOR CONSTRUCTION

MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge RO Chesterfield, MO 63017

M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826263 2387107 ВЗ Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:07:59 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-Qi?5QKP4DASMwE1uOc6HDN8nMZlng9MYg1uL0Qz2Q2E

20-11-13

7-0-14

28-11-13

8-0-0

Scale = 1:61.1

34-8-0

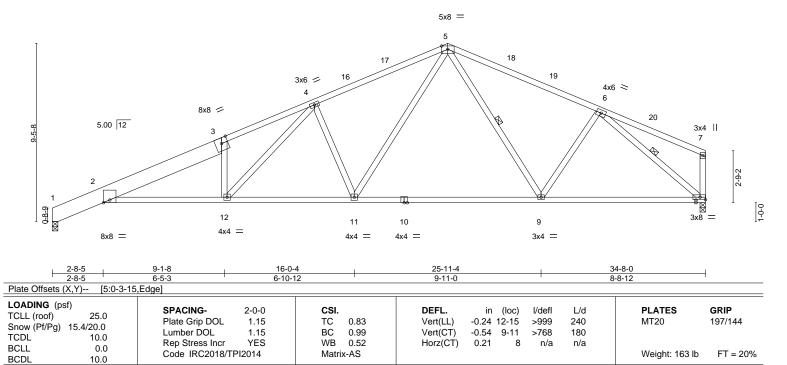
5-8-3

Structural wood sheathing directly applied, except end verticals.

5-9, 6-8

Rigid ceiling directly applied

1 Row at midpt



**BRACING-**

WEBS

TOP CHORD

**BOT CHORD** 

LUMBER-

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

1-3: 2x10 SP 2400F 2.0E

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

WEBS 2x4 SPF No.2

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

Max Horz 1=188(LC 15)

Max Uplift 1=-117(LC 16), 8=-126(LC 16) Max Grav 1=1565(LC 2), 8=1548(LC 2)

6-5-3

4-9-7

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  $1\hbox{-}2\hbox{--}612/73,\ 2\hbox{-}3\hbox{--}3492/385,\ 3\hbox{-}4\hbox{--}3580/460,\ 4\hbox{-}5\hbox{--}2451/375,\ 5\hbox{-}6\hbox{--}1871/297}$ TOP CHORD **BOT CHORD** 2-12=-421/3283, 11-12=-323/2503, 9-11=-183/1578, 8-9=-213/1543 **WEBS** 4-12=-135/1106, 4-11=-881/197, 5-11=-127/1159, 5-9=-65/255, 6-9=-24/305,

6-8=-1977/258, 3-12=-676/144

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-4-11, Interior(1) 3-4-11 to 20-11-13, Exterior(2R) 20-11-13 to 23-11-13, Interior(1) 23-11-13 to 34-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 1 and 126 lb uplift at ioint 8.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



RELEASE FOR CONSTRUCTION

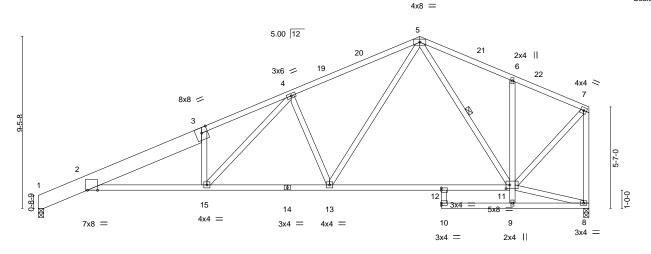


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826264 2387107 C1 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:00 2020 Page 1

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-uuZTdgQizTaDYOc4yKeWmag?7z9ZPd3hvheuYsz2Q2D 20-11-13 26-1-0 30-3-8 6-5-3 4-9-7 7-0-14 5-1-3 4-2-8

Scale: 3/16"=1'



2-8-5 6-10-12 6-1-12 Plate Offsets (X,Y)--[2:0-6-11,Edge], [11:0-2-8,0-2-8], [12:0-0-0,0-1-8] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.64 Vert(LL) -0.20 15-18 >999 240 MT20 197/144 15.4/20.0 Snow (Pf/Pg) Lumber DOL 1.15 ВС 0.76 Vert(CT) -0.41 12-13 >868 180 **TCDL** 10.0 Rep Stress Incr YES WB 0.49 Horz(CT) 0.18 8 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 165 lb Matrix-AS BCDL 10.0

**BRACING-**

**WEBS** 

TOP CHORD

**BOT CHORD** 

16-0-4

LUMBER-

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

1-3: 2x10 SP 2400F 2.0E

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

WEBS 2x4 SPF No.2

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

Max Horz 1=247(LC 15)

Max Uplift 8=-111(LC 16), 1=-100(LC 16) Max Grav 8=1352(LC 2), 1=1368(LC 2)

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

1-2=-590/96, 2-3=-2905/346, 3-4=-2978/425, 4-5=-1898/339, 5-6=-991/239, TOP CHORD

6-7=-978/175 7-8=-1358/193

**BOT CHORD** 2-15=-490/2729, 13-15=-379/1987, 12-13=-215/1067, 11-12=-141/1184, 9-10=-286/0 **WEBS** 

9-11=0/321, 6-11=-361/121, 7-11=-166/1226, 5-11=-459/103, 3-15=-636/159,

5-13=-158/1139, 4-13=-872/218, 4-15=-153/1053

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-4-11, Interior(1) 3-4-11 to 20-11-13, Exterior(2R) 20-11-13 to 23-11-13, Interior(1) 23-11-13 to 30-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 8 and 100 lb uplift at ioint 1.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



30-3-8

Structural wood sheathing directly applied, except end verticals.

26-1-0

Rigid ceiling directly applied.

1 Row at midpt

RELEASE FOR CONSTRUCTION



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Summit/Stoney Creek #86 141826265 2387107 C2 Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:02 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-qHgE2LSyV5qxnhmT3kg\_r?mHNmpWtPy\_M?7?dlz2Q2B 24-2-0 1-6-5 Scale = 1:66.8 4x6 = 6x8 = 5.00 12 5 8x16 MT20HS > 3x8 = 27 8x8 = 3 2-7-0

						24-2-0		
	1	2-8-5	9-1-8	19-4-0	22-2-0	22 <sub>1</sub> 7-11	28-2-0	30-3-8
	Г	2-8-5	6-5-3	10-2-8	2-10-0	0-5-11	4-0-0	2-1-8
						1-6-5		
Plate Offsets (X V)	12:0-6-1	11 Edgel	[7:0-3-0 0-1-12]					

15

4x6 =

1 late 0113013 (X,1) [2.0 0 11	,Eugej, [1.0 0 0,0 1 12]			
LOADING (psf)   TCLL (roof)   25.0   Snow (Pf/Pg)   20.4/20.0   TCDL   10.0   BCLL   0.0   BCDL   10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.85 BC 0.86 WB 0.97 Matrix-AS	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.27 14-16         >999         240           Vert(CT)         -0.60 14-16         >600         180           Horz(CT)         0.17         8         n/a         n/a	PLATES GRIP MT20 197/144 MT20HS 148/108 Weight: 173 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

1-3: 2x10 SP 2400F 2.0E **BOT CHORD** 2x4 SPF No.2 \*Except\* 8-13: 2x4 SP 2400F 2.0E

0-8-0

7x8 =

**WEBS** 2x4 SPF No.2 \*Except\* 7-8: 2x4 SP 2400F 2.0E

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

Max Horz 1=234(LC 15)

Max Uplift 8=-98(LC 16), 1=-96(LC 16) Max Grav 8=1448(LC 39), 1=1377(LC 2)

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

TOP CHORD 1-2=-585/92, 2-3=-3099/293, 3-4=-3196/373, 4-5=-1557/241, 5-6=-1348/241,

6-7=-1301/209, 8-10=-1381/184, 7-10=-1363/186

**BOT CHORD** 2-16=-448/2914, 14-16=-358/2073, 12-14=-191/1103 WFBS

4-16=-122/1196, 4-14=-1009/189, 5-14=-24/345, 6-12=-485/123, 7-12=-129/1177,

6-14=-78/662, 3-16=-680/163

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 1) Orbital ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-4-11, Interior(1) 3-4-11 to 19-4-0, Exterior(2E) 19-4-0 to 22-7-11, Exterior(2R) 22-7-11 to 26-10-10, Interior(1) 26-10-10 to 30-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

16

4x4 =

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 8 and 96 lb uplift at
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 permanent. 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



9

10

2x4 ||

Structural wood sheathing directly applied, except end verticals, and

8

3x4 ||

2x4 =

11

2x4 |

2x4 || 2x4 || 4x4 = 4x4 ||

2-0-0 oc purlins (4-5-13 max.): 5-6.

10-0-0 oc bracing: 11-12

Rigid ceiling directly applied. Except:

13

9

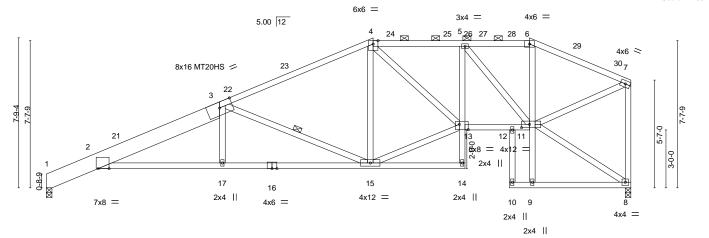
14

4x8 =





Scale = 1:59.7



2-8-5	9-1-8	16-11-3	21-8-5   24-0-0   25-0-7 <sub>1</sub> 26-5-8	30-3-8
2-8-5	6-5-3	7-9-11	4-9-2 2-3-11 1-0-7 1-5-0	3-10-0
Plate Offsets (X,Y) [2:0-6-11	,Edge], [11:0-5-0,0-2-0], [13:0-5-8,0-3-4	]		
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.82 BC 0.76 WB 0.56	DEFL.         in (loc)         I/defl         L/d           Vert(LL)         -0.20         17-20         >999         240           Vert(CT)         -0.39         15-17         >933         180           Horz(CT)         0.24         8         n/a         n/a	PLATES         GRIP           MT20         197/144           MT20HS         148/108
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 172 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

REACTIONS.

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

1-3: 2x10 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

Max Horz 1=218(LC 15) Max Uplift 8=-111(LC 16), 1=-100(LC 16) Max Grav 8=1352(LC 2), 1=1368(LC 2)

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

TOP CHORD 1-2=-571/94, 2-3=-3038/357, 3-4=-1865/269, 4-5=-1939/335, 5-6=-1331/244,

6-7=-1493/237, 7-8=-1304/233

BOT CHORD 2-17=-509/2865, 15-17=-506/2873, 5-13=-45/549, 12-13=-360/1939, 11-12=-358/1933

3-17=0/299, 3-15=-1488/233, 13-15=-312/1722, 4-13=-92/507, 5-11=-1022/147,

6-11=0/331, 7-11=-240/1437

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

### NOTES

**WEBS** 

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-4-11, Interior(1) 3-4-11 to 16-11-3, Exterior(2R) 16-11-3 to 21-2-2, Interior(1) 21-2-2 to 25-0-7, Exterior(2R) 25-0-7 to 29-3-6, Interior(1) 29-3-6 to 30-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 8 and 100 lb uplift at joint 1.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (3-11-7 max.): 4-6.

Rigid ceiling directly applied.

1 Row at midpt

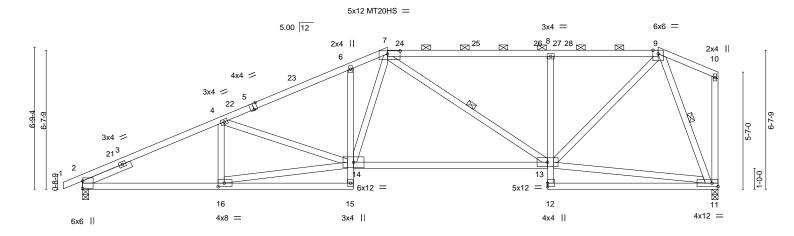
LEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LET STAMMIT, MISSOURI

MITEK 16023 Swingley Ridge Ro Chesterfield, MO 63017

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826267 2387107 C4 Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:06 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-j2wlujVTZJKNGJ4Elakw?rwz?OBMpKmaHd5DmWz2Q27 27-5-4 30-3-8 6-7-4 6-3-12 1-7-6 7-7-10 5-3-4 2-10-4

Scale = 1:54.9



. 6	6-7-4 6-3-12	1-7-6	7-7-10	5-3-4	1-5-0 1-5-4				
Plate Offsets (X,Y) [2:Edge,	Plate Offsets (X,Y) [2:Edge,0-0-0], [5:0-2-0,Edge], [7:0-7-4,0-1-12], [16:0-3-8,0-2-0]								
CADING (psf)   TCLL (roof)   25.0   Snow (Pf/Pg)   20.4/20.0   TCDL   10.0   BCDL   0.0   BCDL   10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.87 BC 0.80 WB 0.54 Matrix-AS	DEFL. in (loc) Vert(LL) -0.24 13-14 Vert(CT) -0.54 13-14 Horz(CT) 0.11 11	l/defl L/d >999 240 >664 180 n/a n/a	PLATES GRIP MT20 197/144 MT20HS 148/108 Weight: 152 lb FT = 20%				

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

14-6-6

LUMBER-

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

WEBS 2x4 SPF No.2

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

**REACTIONS.** (size) 2=0-3-8, 11=0-3-8 Max Horz 2=205(LC 15)

Max Uplift 2=-136(LC 16), 11=-112(LC 16)

Max Grav 2=1422(LC 2), 11=1356(LC 2)

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

TOP CHORD 2-4=-2493/289, 4-6=-2408/304, 6-7=-2305/335, 7-8=-1565/249, 8-9=-1529/245 BOT CHORD 2-16=-409/2239 6-14=-312/81 13-14=-347/1920 8-13=-649/137

BOT CHORD 2-16=-409/2239, 6-14=-312/81, 13-14=-347/1920, 8-13=-649/137 WEBS 4-16=-278/117, 14-16=-375/2193, 4-14=-258/105, 7-14=-92/950, 7-13=-543/97,

11-13=-128/484, 9-13=-182/1431, 9-11=-1358/260

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 14-6-6, Exterior(2R) 14-6-6 to 18-9-5, Interior(1) 18-9-5 to 27-5-4, Exterior(2E) 27-5-4 to 30-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 2 and 112 lb uplift at joint 11.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (2-11-15 max.): 7-9.

Rigid ceiling directly applied.

1 Row at midpt

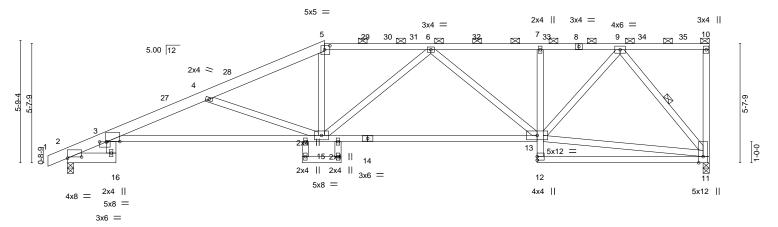
RELEASE FOR CONSTRUCTION

S NOTED ON PLANS REVIE CODE OMINISTRATION LEVEL MINIT, MISSOURI MITCK 16023 SWINGLY MISSOURI Chesterfield, MO 63017

႔ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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Scale = 1:54.4



		12-11-0				
2-3-8	11-1-0	12-1-10	22-2-0	30-3-8		
2-3-8	8-9-8	1-0-10 0-9-6	9-3-0	8-1-8	1	
Plate Offsets (X,Y) [2:0-8-0,	0-0-11], [3:0-7-2,0-0-1], [3:0-3-13,0-0-1],	, [5:0-3-0,0-2-4]				
TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES	CSI. TC 0.91 BC 0.84 WB 0.80	<b>DEFL.</b> in (loc) Vert(LL) -0.35 15-26 Vert(CT) -0.72 15-26 Horz(CT) 0.34 11	l/defl L/d >999 240 >500 180 n/a n/a	MT20 19	<b>GRIP</b> 97/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 154 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-TOP CHORD 2x4 SPF No.2 \*Except

RD 2x4 SPF No.2 \*Except\* 1-5: 2x6 SP 2400F 2.0E

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

2-16,3-16: 2x6 SPF No.2, 3-14: 2x4 SPF 1650F 1.5E WEBS 2x4 SPF No.2

OTHERS 2x4 SPF No.2

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

Max Horz 2=189(LC 15)

Max Uplift 11=-112(LC 16), 2=-133(LC 16)

Max Grav 11=1437(LC 35), 2=1429(LC 2)

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

TOP CHORD 3-22=-525/82, 3-4=-3698/480, 4-5=-2646/297, 5-6=-2337/296, 6-7=-1914/243,

7-9=-1878/245

BOT CHORD 3-15=-653/3564, 13-15=-381/2322, 7-13=-363/75

WEBS 4-15=-1383/287, 6-15=-210/271, 6-13=-599/140, 11-13=-170/933, 9-13=-135/1292,

9-11=-1667/239, 5-15=-11/657

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 1) Orbatantee Tool live does have been considered to this design.

  2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 1-10-9, Interior(1) 1-10-9 to 12-1-10, Exterior(2R) 12-1-10 to 16-4-8, Interior(1) 16-4-8 to 30-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 11 and 133 lb uplift at joint 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (3-7-1 max.): 5-10.

Rigid ceiling directly applied.

1 Row at midpt

EASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LETT STIMMIT, MISSOURI

MiTek\* 16023 Swingley Roge Ro Chesterfield, MO 63017

🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826269 2387107 C6 HALF HIP Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:09 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-7dbtWlXLsEjy7mopzjlddUYScbEu0fe0zbJtNrz2Q24

3-2-2

17-6-8

1-5-6

22-2-0

4-7-8

26-1-0

3-11-0

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (2-8-15 max.): 5-10.

Rigid ceiling directly applied.

1 Row at midpt

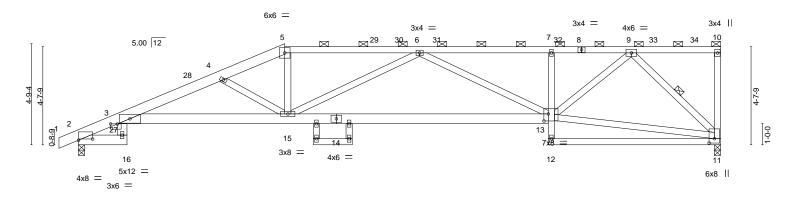
11-1-0 1-4-3 1-10-0

2-10-13

Scale = 1:54.3

30-3-8

4-2-8



2-3-8	9-8-13 <sub>1</sub> 11-1-0	12-11-0 16-1-2	1 22-2-0	30-3-8	
2-3-8	7-5-5 1-4-3	1-10-0 3-2-2	6-0-14	8-1-8	1
Plate Offsets (X,Y) [2:0-8-0,	0-0-11], [3:0-3-13,0-0-1], [11:0-2-8,0-3-0	], [13:0-2-8,0-4-0]			
LOADING (psf)   TCLL (roof)   25.0   Snow (Pf/Pg)   20.4/20.0   TCDL   10.0   BCLL   0.0   BCDL   10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.91 BC 0.68 WB 0.66 Matrix-AS	DEFL. in (loc) Vert(LL) -0.31 15-26 Vert(CT) -0.60 13-15 Horz(CT) 0.31 11	Videfi	<b>GRIP</b> 197/144

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

2x4 SPF No.2 \*Except\* TOP CHORD 1-5: 2x6 SP 2400F 2.0E

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

3-14: 2x6 SPF 2100F 1.8E, 11-12: 2x4 SPF No.2

4-6-8

**WEBS** 2x4 SPF No.2

2x4 SPF No.2 **OTHERS** 

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

Max Horz 2=154(LC 15)

Max Uplift 11=-112(LC 16), 2=-134(LC 16) Max Grav 11=1483(LC 35), 2=1429(LC 2)

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

TOP CHORD  $3-22=-503/82,\ 3-4=-3738/462,\ 4-5=-3166/350,\ 5-6=-2914/337,\ 6-7=-2659/302,$ 

7-9=-2651/304

**BOT CHORD** 3-15=-587/3557, 13-15=-481/3280

7-13=-419/83, 5-15=-57/915, 6-15=-520/140, 6-13=-758/159, 11-13=-202/1270, WFBS

9-13=-174/1697, 9-11=-1917/261, 4-15=-855/212

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 1-10-9, Interior(1) 1-10-9 to 9-8-13, Exterior(2R) 9-8-13 to 13-11-11, Interior(1) 13-11-11 to 30-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 11 and 134 lb uplift
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.





Job Truss Truss Type Summit/Stoney Creek #86 141826270 C7 2387107 Half Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:11 2020 Page 1

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-4?jexQZbOszfN4yB57K5iveo5PtHUb0JRvozRjz2Q22

Structural wood sheathing directly applied, except end verticals, and

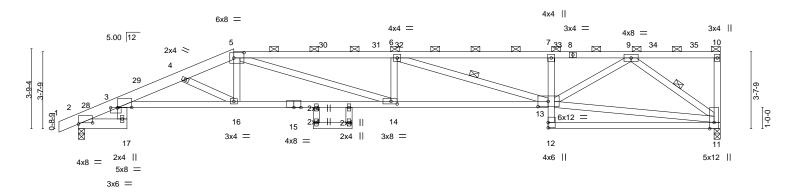
2-0-0 oc purlins (2-9-14 max.): 5-10.

Rigid ceiling directly applied.

1 Row at midpt

22-2-0 26-1-0 30-3-8 2-3-7 3-9-0 1-10-0 1-11-12 2-7-12 4-7-8 3-11-0 4-2-8

Scale = 1:54.4



2-3-8	7-4-0 5-0-8	11-1-0 3-9-0		4-10-12 1-11-12	22-2-0 7-3-4		-	30-3-8 8-1-8		
	-0-11], [3:0-7-10,0-0-1], [			–		3-8,0-1-8]		0-1-0		
CADING (psf)   TCLL (roof)   25.0   Snow (Pf/Pg)   20.4/20.0   TCDL   10.0   BCLL   0.0   BCDL   10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 1.15 1.15 YES I2014	CSI. TC BC WB Matri	0.91 0.88 0.54 x-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.45 14 -0.78 13-14 0.40 11	>463	L/d 240 180 n/a	PLATES MT20 Weight: 145 lb	<b>GRIP</b> 197/144 FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-TOP CHORD

2x6 SP 2400F 2.0E \*Except\*

5-8: 2x4 SP 2400F 2.0E, 8-10: 2x4 SPF No.2

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

2-17,3-17: 2x6 SPF No.2, 3-15,13-15: 2x4 SPF 1650F 1.5E

**WEBS** 2x4 SPF No.2

2x4 SPF No.2 **OTHERS** 

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

Max Horz 2=119(LC 15)

Max Uplift 11=-110(LC 16), 2=-134(LC 16) Max Grav 11=1522(LC 35), 2=1429(LC 2)

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

TOP CHORD 3-23=-488/82, 3-4=-4233/540, 4-5=-3628/429, 5-6=-4926/497, 6-7=-3885/377,

7-9=-3702/364

**BOT CHORD** 3-16=-636/4114, 14-16=-473/3421, 13-14=-545/4926, 7-13=-473/94, 11-12=-12/312 WFBS 5-16=-35/568, 5-14=-111/1575, 6-13=-1092/136, 11-13=-226/1542, 9-13=-189/2189,

9-11=-2332/277, 6-14=-323/102, 4-16=-888/184

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 1) Orbital action for the loads have been considered in this design.

  2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 1-10-9, Interior(1) 1-10-9 to 7-4-0, Exterior(2R) 7-4-0 to 11-6-15, Interior(1) 11-6-15 to 30-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 11 and 134 lb uplift at joint 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



MINISTRATION IMIT, MISSOURI MiTek

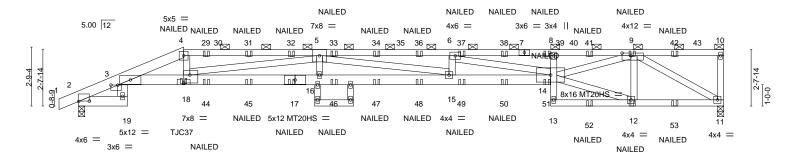
16023 Swingley Ridge RO Chesterfield, MO 63017

M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-QzWX\_8dkCObyTrr9uhwGPyLhiQck9ou2aAWk6xz2Q1z 12-11-0

3-8-5 4-11-3 1-4-13 1-2-14 11-3-12 0-2-12 1-7-4

Scale = 1:54.1



12-11-0 11-3-12 0-2-12 1-7-4 4-11-3 2-7-11 Plate Offsets (X,Y)--[2:0-6-0,0-0-3], [3:0-3-13,0-0-1], [9:0-5-0,0-1-8], [18:0-3-8,0-4-8] LOADING (psf) SPACING-2-0-0 DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 25.0Plate Grip DOL 1.15 TC 0.79 Vert(LL) -0.67 15-16 >544 240 MT20 197/144 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 ВС 0.73 Vert(CT) -1.17 15-16 >310 180 MT20HS 148/108 TCDL 10.0 Rep Stress Incr NO WB 0.75 Horz(CT) 0.42 n/a n/a 11 **BCLL** 0.0 Code IRC2018/TPI2014 Weight: 293 lb FT = 20%Matrix-MS BCDL 10.0

**BOT CHORD** 

LUMBER-**BRACING-**TOP CHORD

TOP CHORD 2x6 SP 2400F 2.0E \*Except\* 4-7: 2x4 SP 2400F 2.0E, 7-10: 2x4 SPF No.2

2x4 SPF No.2 \*Except\*

**BOT CHORD** 2-19,3-19: 2x6 SPF No.2, 3-17,14-17: 2x6 SPF 2100F 1.8E

**WEBS** 2x4 SPF No.2 2x4 SPF No.2 **OTHERS** 

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

Max Horz 2=85(LC 11)

Max Uplift 11=-241(LC 12), 2=-285(LC 12) Max Grav 11=2098(LC 31), 2=2021(LC 2)

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

TOP CHORD 3-24=-726/112, 3-4=-7781/1008, 4-5=-7623/995, 5-6=-12185/1486, 6-8=-9569/1154,

8-9=-9071/1098

3-18=-914/7384, 16-18=-1421/11860, 15-16=-1421/11860, 14-15=-1432/12185,

8-14=-350/93, 12-13=-84/748, 11-12=-384/3267

**WEBS** 4-18=-241/2113, 5-18=-4326/490, 5-16=0/288, 6-15=-3/326, 6-14=-2708/343, 12-14=-313/2621, 9-14=-727/6130, 9-12=-628/148, 9-11=-3729/438, 5-15=-52/346

## NOTES-

**BOT CHORD** 

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-7-0 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: 2x4 - 1 row at 0-9-0 oc.

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

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

- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 6) Unbalanced snow loads have been considered for this design.
- 7) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 8) Provide adequate drainage to prevent water ponding.
- 9) All plates are MT20 plates unless otherwise indicated.
- 10) All plates are 2x4 MT20 unless otherwise indicated.

Odntifibischesspage been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads

M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 permanent. 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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

except end verticals, and 2-0-0 oc purlins (3-5-2 max.): 4-10.

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

RELEASE FOR CONSTRUCTION D ON PLANS REVIE 5 ADMINISTRATION

IMIT, MISSOURI MiTek 16023 Swingley Riage Ru Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/Stoney Creek #86	
0007407	00	11 KUE 0: 1	_			l41826271
2387107	C8	Half Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:16 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-QzWX\_8dkCObyTrr9uhwGPyLhiQck9ou2aAWk6xz2Q1z

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 241 lb uplift at joint 11 and 285 lb uplift at joint 2.
- 13) 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.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Use Simpson Strong-Tie TJC37 (4 nail 90-150) or equivalent at 4-11-3 from the left end to connect truss(es) to back face of bottom chord, skewed 50.2 deg.to the right, sloping 0.0 deg. down.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-51, 3-4=-51, 4-10=-61, 19-23=-20, 14-26=-20, 11-13=-20

Concentrated Loads (lb)

Vert: 4=-30(B) 17=-58(B) 18=-205(B) 12=-24(B) 9=-67(B) 29=-57(B) 31=-57(B) 32=-57(B) 33=-67(B) 34=-41(B) 36=-41(B) 37=-41(B) 38=-41(B) 39=-67(B)

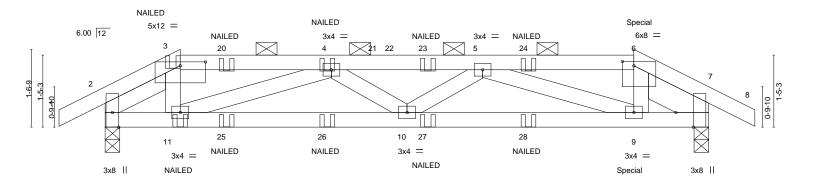
41=-67(B) 42=-67(B) 44=-58(B) 45=-58(B) 46=-24(B) 47=-63(B) 48=-63(B) 49=-63(B) 50=-63(B) 51=-24(B) 52=-24(B) 53=-24(B)

RELEASE FOR CONSTRUCTION



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826272 D1 2387107 Hip Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:18 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-NMeHPqe\_k?rgi9\_X?6ykVNQ80DNzdq5L2U?rApz2Q1x 10-6-2 12-0-0 12-11-0 0-11-0 1-5-15 3-0-1 3-0-1 3-0-1 1-5-14 0-11-0

Scale = 1:22.9



1-5-15	6-0-0 4-6-2		10-6-2 4-6-2	12-0-0 1-5-14
Plate Offsets (X,Y) [3:0-6-0,0	-0-15], [6:0-2-12,0-1-0], [7:0-3-8,Edge]			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.35 BC 0.43 WB 0.20 Matrix-MS	DEFL.         in (loc)         l/defl           Vert(LL)         -0.05         10         >999           Vert(CT)         -0.09         9-10         >999           Horz(CT)         0.01         7         n/a	L/d 240 MT20 197/144 180 n/a Weight: 48 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEBS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 1-5-2, Right 2x6 SPF No.2 1-5-1

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

Max Horz 2=18(LC 11)

Max Uplift 2=-73(LC 12), 7=-73(LC 12) Max Grav 2=596(LC 2), 7=596(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-966/61, 3-4=-871/61, 4-5=-1749/120, 5-6=-984/69, 6-7=-1006/64

BOT CHORD 2-11=-10/435, 10-11=-99/1245, 9-10=-98/1256, 7-9=-18/542

WEBS 3-11=0/255, 4-11=-862/94, 5-9=-759/87

### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.5) This truss has been designed for greater of min roof live load of the load of th
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 2 and 73 lb uplift at joint 7.
- 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.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 50 lb up at 10-7-14 on top chord, and 20 lb down and 11 lb up at 10-5-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

Continued on page 2

႔ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Structural wood sheathing directly applied or 5-7-5 oc purlins, except

2-0-0 oc purlins (4-4-5 max.): 3-6.

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

RELEASE FOR CONSTRUCTION

S NOTED ON PLANS REVIE CODES ADMINISTRATION LETTE MINIT, MISSOURI MITEK

16023 Swingley Ridge Rd Chesterfield, MO 63017

J	ob	Truss	Truss Type	Qty	Ply	Summit/Stoney Creek #86
	007407	D4	Ni- Oindan	_		I41826272
	387107	D1	Hip Girder	1	1	Joh Reference (entional)
- 1						Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:18 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-NMeHPqe\_k?rgi9\_X?6ykVNQ80DNzdq5L2U?rApz2Q1x

### LOAD CASE(S) Standard

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

Vert: 1-3=-51, 3-6=-61, 6-8=-51, 12-16=-20

Concentrated Loads (lb)

Vert: 11=1(B) 9=1(B) 25=0(B) 26=0(B) 27=0(B) 28=0(B)

# **RELEASE FOR CONSTRUCTION** NOTED ON PLANS REVIE CODE TO MINISTRATION LEVY STUMMIT, MISSOURI

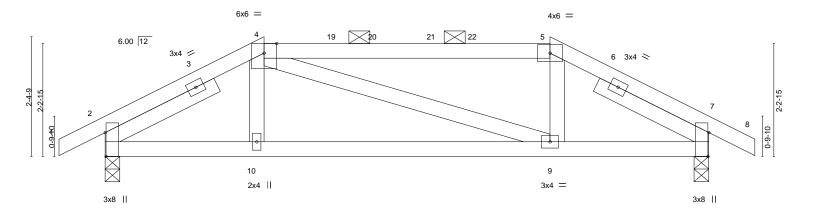
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses sand truss systems, see 
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MITEK\*
16023 Swingley Ridge Rid Chesterfield, MO 63017

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826273 D2 2387107 Hip Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:19 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-rYCfc9fdVJzXKIZkZpTz1azF1dk2MKiUG8kPiGz2Q1w 12-0-0 12-11-0 0-11-0 3-1-15 5-8-3 3-1-14 0-11-0

Scale = 1:22.9



	3-1-13		6-10-2					12-	-0-0	
ı	3-1-15		5-8-3				1	3-1	-14	
Plate Offsets (X,Y) [2:0-5	5-11,Edge], [7:0-5-11,Edge]									
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	Plate Grip DOL 1 Lumber DOL 1	-0-0 CSI. 1.15 TC 1.15 BC YES WB Matr	0.59 0.37	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.04 -0.09 0.02	(loc) 9-10 9-10 7	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 47 lb	<b>GRIP</b> 197/144 FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

g\_10\_2

LUMBER-

TOP CHORD 2x4 SPF No.2

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

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

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

Max Horz 2=38(LC 15)

Max Uplift 2=-72(LC 16), 7=-72(LC 16) Max Grav 2=604(LC 2), 7=604(LC 2)

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

TOP CHORD 2-4=-756/219, 4-5=-669/225, 5-7=-755/218 BOT CHORD 2-10=-127/674, 9-10=-130/669, 7-9=-129/673

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 3-1-15, Exterior(2R) 3-1-15 to 7-4-13, Interior(1) 7-4-13 to 8-10-2, Exterior(2E) 8-10-2 to 12-11-0 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOI =1 60 plate grip DOI =1 60
- exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

  3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 2 and 72 lb uplift at joint 7.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



12.0.0

Structural wood sheathing directly applied, except

2-0-0 oc purlins (5-6-9 max.): 4-5.

Rigid ceiling directly applied.

RELEASE FOR CONSTRUCTION



🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826274 2387107 D3 Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:21 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-nxKQ1rgt1wDFZcj6gEWR6?2i\_RS6qEOnkSDVn8z2Q1u 12-0-0 12-11-0

2-4-3

4-9-14

12-0-0

Structural wood sheathing directly applied, except

2-0-0 oc purlins (6-0-0 max.): 4-5.

Rigid ceiling directly applied

Scale: 1/2"=1

0-11-0

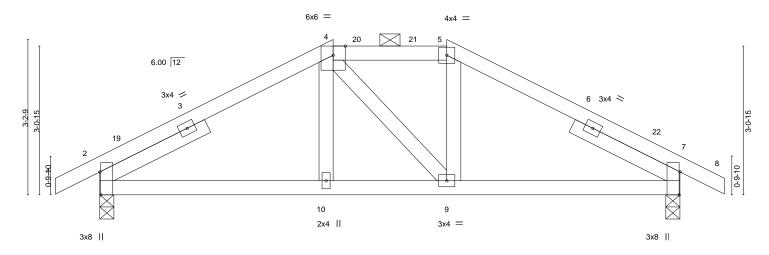


Plate Offsets (X,Y)--[2:0-5-11,Edge], [7:0-5-11,Edge] LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/defl L/d **PLATES** GRIP 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.18 Vert(LL) -0.01 9-10 >999 240 MT20 197/144 Snow (Pf/Pg) 20.4/20.0

Lumber DOL 1.15 ВС 0.21 Vert(CT) -0.02 10-13 >999 180 **TCDL** 10.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.01 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 47 lb Matrix-AS BCDL 10.0

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

0-11-0

**WEBS** 2x4 SPF No.2 Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0 SLIDER

REACTIONS. (size) 2=0-3-8, 7=0-3-8 Max Horz 2=53(LC 15)

Max Uplift 2=-72(LC 16), 7=-72(LC 16)

Max Grav 2=656(LC 39), 7=656(LC 39)

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

4-9-15

TOP CHORD 2-4=-622/209, 4-5=-558/229, 5-7=-622/209 BOT CHORD 2-10=-103/562, 9-10=-103/558, 7-9=-100/562

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 4-9-15, Exterior(2E) 4-9-15 to 7-2-2, Exterior(2R) 7-2-2 to 12-0-0, Interior(1) 12-0-0 to 12-11-0 zone; cantilever left and right exposed; end vertical left and right
- exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

  3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 2 and 72 lb uplift at ioint 7.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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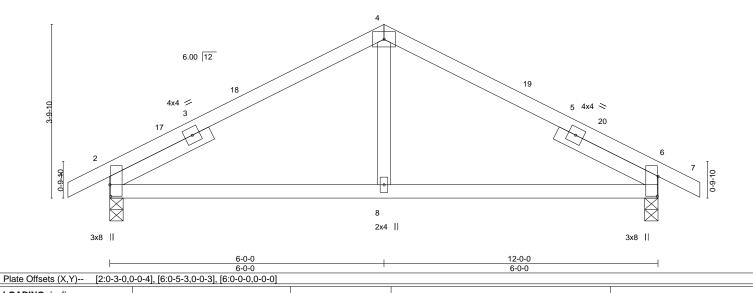


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826275 D4 2387107 Common Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:22 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-F7uoEBhVoEL6BmlJEx1hfDbqEqmKZhGwy6z3Jbz2Q1t 12-11-0 -0-11-0 0-11-0 6-0-0 6-0-0 0-11-0

4x6 =

Scale = 1:25.2



**BRACING-**

TOP CHORD

**BOT CHORD** 

LOADING (psf)

SPACING-CSI DEFL. in 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.34 Vert(LL) -0.04 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.27 Vert(CT) -0.06 **TCDL** 10.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.02 **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-AS BCDL 10.0

(loc) I/defl L/d 8-11 >999 240 8-11 >999 180 n/a n/a

Rigid ceiling directly applied.

Structural wood sheathing directly applied.

**PLATES** GRIP MT20

197/144

FT = 20% Weight: 41 lb

LUMBER-

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

**SLIDER** Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

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

Max Horz 2=66(LC 15)

Max Uplift 2=-72(LC 16), 6=-72(LC 16) Max Grav 2=604(LC 2), 6=604(LC 2)

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

TOP CHORD 2-4=-591/231, 4-6=-591/231 BOT CHORD 2-8=-91/519, 6-8=-91/519

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0 , Interior(1) 9-0-0 to 12-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 2 and 72 lb uplift at joint 6.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



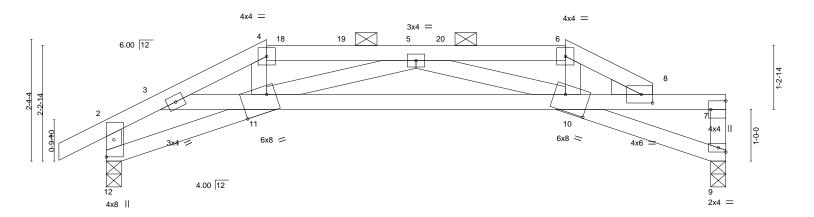
RELEASE FOR CONSTRUCTION





Job Truss Truss Type Qty Summit/Stoney Creek #86 141826276 F1 2387107 Roof Special Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:23 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-jJSASXi7ZYTypwtVofYwCQ7?zE5xl7X4Bmicr1z2Q1s 10-7-0 8-10-11 12-0-0 0-11-0 3-1-5 2-10-11 2-10-11 1-8-4 1-5-0

Scale = 1:22.3



1	3-3-8	8-8	3-8	10-7-0	12-0-0	1
	3-3-8	5-5	5-0	1-10-8	1-5-0	<u> </u>
Plate Offsets (X,Y) [2:0-0-14	i,0-1-12], [7:Edge,0-3-8], [8:0-2-10,0-2-	0], [10:0-5-8,0-3-12], [11:0-	6-0,Edge], [12:0-0-9,0-1-12]			
LOADING (psf)   TCLL (roof)   25.0   Snow (Pf/Pg)   20.4/20.0   TCDL   10.0   BCDL   0.0   BCDL   10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.34 BC 0.38 WB 0.12 Matrix-MS	Vert(LL) -0.06 10-11	l/defl L/d >999 240 >999 180 n/a n/a	_	<b>GRIP</b> 197/144 FT = 20%

TOP CHORD

**BOT CHORD** 

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF No.2 \*Except\* 1-4: 2x4 SP 2400F 2.0E

**BOT CHORD** 2x4 SPF No.2 \*Except\* 3-7: 2x4 SP 2400F 2.0E

**WEBS** 2x4 SPF No.2

WEDGE

Right: 2x4 SP No.3

REACTIONS. (size) 9=0-3-8, 12=0-3-8

Max Horz 12=67(LC 11)

Max Uplift 9=-3(LC 12), 12=-73(LC 12) Max Grav 9=658(LC 2), 12=627(LC 2)

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

TOP CHORD 2-3=-547/50, 3-4=-1431/77, 4-5=-1240/79, 5-6=-1401/45, 6-8=-1613/35, 7-9=-581/18,

2-12=-694/84

**BOT CHORD** 11-12=-59/324, 3-11=-22/997, 10-11=-144/1704, 8-10=-26/1268 WEBS 4-11=0/421, 5-11=-540/89, 5-10=-472/119, 6-10=0/485

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft: Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) Bearing at joint(s) 9, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 9 and 73 lb uplift at joint 12.
- 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.



Structural wood sheathing directly applied or 4-3-9 oc purlins,

except end verticals, and 2-0-0 oc purlins (4-10-5 max.): 4-6.

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

RELEASE FOR CONSTRUCTION

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M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Scale = 1:22.5

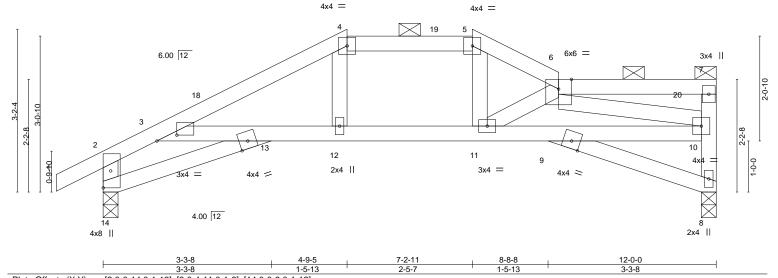


Plate Offsets (X,Y)-- [2:0-0-14,0-1-12], [3:0-4-11,0-1-6], [14:0-0-9,0-1-12]

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.37 BC 0.46 WB 0.22	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (lo -0.06 -0.10 0.05	oc) l/defl 13 >999 13 >999 8 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 47 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

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

> (size) 8=0-3-8, 14=0-3-8 Max Horz 14=91(LC 15)

Max Uplift 8=-43(LC 16), 14=-75(LC 16) Max Grav 8=524(LC 2), 14=633(LC 42)

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

2-3=-608/279, 3-4=-974/375, 4-5=-839/374, 5-6=-964/390, 8-10=-497/193, TOP CHORD

2-14=-678/279

BOT CHORD 13-14=-311/411, 3-13=-80/470, 12-13=-380/855, 11-12=-376/839, 9-11=-474/1139,

9-10=-452/1094

**WEBS** 6-11=-352/142, 6-10=-1118/454

# NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 4-9-5, Exterior(2E) 4-9-5 to 8-11-0, Interior(1) 8-11-0 to 11-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Bearing at joint(s) 8, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 8 and 75 lb uplift at joint 14.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 4-5, 6-7.

Rigid ceiling directly applied

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MINISTRATION IMIT, MISSOURI MiTek

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 permanent. 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

16023 Swingley Ridge RO Chesterfield, MO 63017

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826278 2387107 F3 Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:26 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-8u7J4Zk0sTsXgNb4Tn5dp3lVyR32VQEWtkxGSMz2Q1p -0-11-0 0-11-0 7-3-0 12-0-0 3-3-8 3-3-8

1-3-0

2-8-8

Scale = 1:25.6 4x6 =

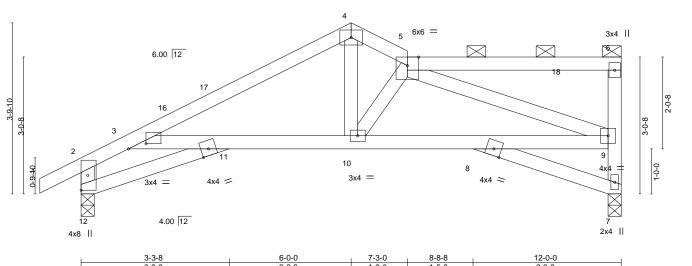


Plate Offsets (X,Y)-- [2:0-0-14,0-1-12], [3:0-4-11,0-1-6], [12:0-0-9,0-1-12]

LOADING (psf)   TCLL (roof)   25.0   Snow (Pf/Pg)   20.4/20.0   TCDL   10.0   BCLL   0.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES	CSI. TC 0.36 BC 0.60 WB 0.38	Vert(CT) -0	in (loc) 0.08 11 0.14 10-11 0.07 7	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 50 lb	FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied, except end verticals, and

**BOT CHORD** 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 5-6. **WEBS** 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied

REACTIONS. (size) 7=0-3-8, 12=0-3-8 Max Horz 12=117(LC 15)

Max Uplift 7=-44(LC 13), 12=-74(LC 16) Max Grav 7=524(LC 2), 12=605(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-615/259, 3-4=-824/282, 4-5=-797/319, 7-9=-494/195, 2-12=-647/255 **BOT CHORD** 11-12=-355/433, 3-11=0/304, 10-11=-337/705, 8-10=-385/859, 8-9=-363/836

WFBS 5-9=-853/364, 4-10=-103/456, 5-10=-335/119

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 6-0-0, Exterior(2E) 6-0-0 to 7-3-0 , Interior(1) 7-3-0 to 11-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Bearing at joint(s) 7, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 7 and 74 lb uplift at ioint 12.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



RELEASE FOR CONSTRUCTION

D ON PLANS REVIE B ADMINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge RO Chesterfield, MO 63017

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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

Max Horz 1=109(LC 11)

Max Uplift 1=-401(LC 12), 6=-572(LC 9) Max Grav 1=2999(LC 31), 6=4615(LC 30)

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

TOP CHORD 1-2=-9292/1290, 2-3=-7738/1096, 3-4=-5337/701, 4-5=-5323/698, 5-6=-3887/518 **BOT CHORD** 1-9=-1222/8250, 8-9=-1165/7877, 7-8=-1082/7300, 6-7=-176/275

**WEBS** 2-9=-205/1433, 2-8=-950/147, 3-8=-699/4708, 3-7=-2663/452, 5-7=-849/6458

# NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
  - Top chords connected as follows: 2x6 2 rows staggered at 0-7-0 oc, 2x4 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-3-0 oc, 2x10 - 2 rows staggered at 0-6-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 6) Unbalanced snow loads have been considered for this design.
- 7) Provide adequate drainage to prevent water ponding.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Bearing at joint(s) 1, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 401 lb uplift at joint 1 and 572 lb uplift at joint 6.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 permanent. 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



RELEASE FOR CONSTRUCTION



16023 Swingley Riage Ru Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/Stoney Creek #86	
			-			I41826279
2387107	GR1	Half Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:27 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-c4hhlulecm\_OHXAG1UdsMGlegrTBEm\_f6Ogq?oz2Q1o

13) Use Simpson Strong-Tie HGUS28-2 (36-16d Girder, 6-16d Truss) or equivalent at 6-0-14 from the left end to connect truss(es) to back face of bottom chord.

14) Use Simpson Strong-Tie HGUS28 (36-10d Girder, 6-10d Truss) or equivalent at 8-0-0 from the left end to connect truss(es) to back face of bottom chord.

15) Fill all nail holes where hanger is in contact with lumber.

16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1516 lb down and 145 lb up at 10-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-51, 3-5=-61, 9-10=-20, 7-9=-20, 6-7=-20

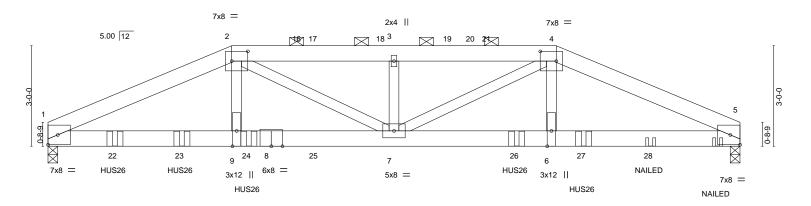
Concentrated Loads (lb)

Vert: 8=-3502(B) 14=-1595(B) 15=-1416(B)

# **RELEASE FOR CONSTRUCTION**

NOTED ON PLANS REVIE CODE ADMINISTRATION E STEMMIT, MISSOURI MiTek 16023 Swingley Ridge Ru Chesterfield, MO 63017

Scale = 1:34.4



5-5-14 5-5-14		-4-0 0-2	15-2-2 4-10-2		+	20-8-0 5-5-14	
Plate Offsets (X,Y) [2:0-5-12,0-3-8], [4:0-5-	12,0-3-8]		_				
LOADING (psf)         SPACII           TCLL (roof)         25.0           Snow (Pf/Pg)         20.4/20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	ip DOL 1.15 DOL 1.15	CSI. TC 0.83 BC 0.65 WB 0.37 Matrix-MS	Vert(CT) -	in (loc) -0.18 7-9 -0.31 7-9 0.07 5	l/defl L/d >999 240 >794 180 n/a n/a	PLATES MT20 Weight: 189 lb	<b>GRIP</b> 197/144 FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 1=0-3-8, 5=0-3-8 Max Horz 1=38(LC 56)

Max Uplift 1=-495(LC 12), 5=-567(LC 12) Max Grav 1=5197(LC 2), 5=5053(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-10009/985, 2-3=-11761/1205, 3-4=-11761/1205, 4-5=-10473/1188 TOP CHORD **BOT CHORD**  $1\hbox{-}9\hbox{--}859/9142, 7\hbox{-}9\hbox{--}869/9273, 6\hbox{-}7\hbox{--}1066/9702, 5\hbox{-}6\hbox{--}1047/9561}$ 2-9=-168/2291, 2-7=-321/2995, 3-7=-1859/196, 4-7=-99/2434, 4-6=-332/2669 WFBS

# NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 6) Unbalanced snow loads have been considered for this design.
- 7) Provide adequate drainage to prevent water ponding.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 495 lb uplift at joint 1 and 567 lb uplift at joint 5.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 8-0-0 oc max. starting at 2-0-0 from the left end to 14-0-0 to connect truss(es) to front face of bottom chord.
- 13) Use Simpson Strong-Tie HUS26 (14-16d Girder, 6-16d Truss) or equivalent at 16-0-0 from the left end to connect truss(es) to front face of bottom chord.

Centifilled on bages where hanger is in contact with lumber.

M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 permanent. 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Structural wood sheathing directly applied or 4-5-14 oc purlins,

2-0-0 oc purlins (3-3-7 max.): 2-4.

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



16023 Swingley Riage Ru Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/Stoney Creek #86
2387107	GR2	Hip Girder	1	2	I41826280
		•			Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:30 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-0fNpwwnWvhMz8?vridAZ\_vw4d3PEREN6oMvUb7z2Q1I

15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 839 lb down and 103 lb up at 10-0-0, and 892 lb down and 100 lb up at 12-0-0 on top chord, and 883 lb down and 97 lb up at 8-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-51, 2-4=-61, 4-5=-51, 10-13=-20

Concentrated Loads (lb)

Vert: 15=-61(F) 18=-804 19=-860 22=-912(F) 23=-859(F) 24=-805(F) 25=-790 26=-944(F) 27=-2186(F) 28=-138(F)

# **RELEASE FOR CONSTRUCTION**

NOTED ON PLANS REVIE CODE TO MINISTRATION ET SUMMIT, MISSOURI MiTek 16023 Swingley Ridge Ru Chesterfield, MO 63017

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826281 2387107 JA1 Jack-Open Supported Gable

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:30 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-0fNpwwnWvhMz8?vridAZ\_vw8U3UERJ66oMvUb7z2Q1I

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

5-11-4 0-11-0 5-11-4

Scale = 1:22.1

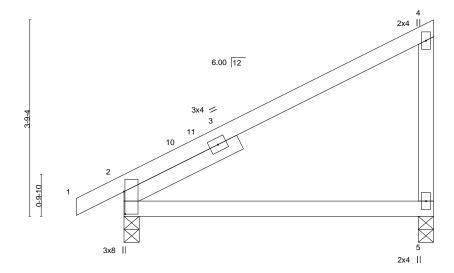


Plate Offsets (X,Y) [2:0-5-3,0-0-4]							
LOADING (psf)   TCLL (roof)   25.0   Snow (Pf/Pg)   15.4/20.0   TCDL   10.0   BCLL   0.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES	CSI. TC 0.51 BC 0.33 WB 0.00	DEFL.         in           Vert(LL)         0.07           Vert(CT)         -0.12           Horz(CT)         0.04	(loc) I/defl 5-8 >999 5-8 >588 2 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS				Weight: 22 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEBS 2x4 SPF No.2 **SLIDER** Left 2x4 SPF No.2 2-6-0

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

Max Horz 2=120(LC 15) Max Uplift 5=-34(LC 13), 2=-46(LC 16)

Max Grav 5=282(LC 21), 2=330(LC 2)

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

TOP CHORD 2-4=-296/110

## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 5 and 46 lb uplift at
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



RELEASE FOR CONSTRUCTION

MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Riage Ru Chesterfield, MO 63017

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826282 2387107 JA2 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:31 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

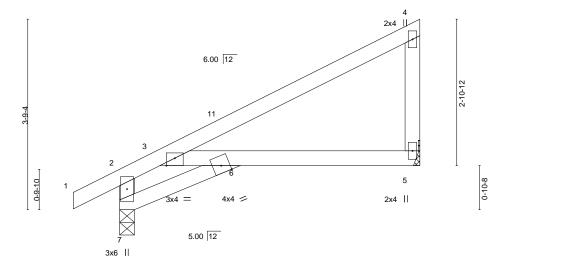
ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-UswC7Go8g?Uqm8U1GKhoW6TLeSpTAmvF10f18Zz2Q1k

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

-0-11-0 0-11-0 2-0-12 3-10-8

Scale = 1:22.8



2-0-12 3-10-8

> **BRACING-**TOP CHORD

**BOT CHORD** 

Plate Offsets (X,Y) [3:0-2-0,E	Edge]							
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.42 BC 0.40 WB 0.03	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.08 5-6 -0.12 5-6 0.05 5	l/defl >857 >542 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0	Code IRC2018/TPI2014	Matrix-AS	` ´				Weight: 21 lb	FT = 20%

LUMBER-

REACTIONS.

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

**WEBS** 2x4 SPF No.2

(size) 7=0-3-8, 5=Mechanical

Max Horz 7=115(LC 16)

Max Uplift 7=-26(LC 16), 5=-48(LC 16) Max Grav 7=335(LC 2), 5=272(LC 21)

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

TOP CHORD 2-7=-313/199

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Refer to girder(s) for truss to truss connections.
- 8) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 7 and 48 lb uplift at joint 5.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



RELEASE FOR CONSTRUCTION



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826283 2387107 JA3 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:32 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

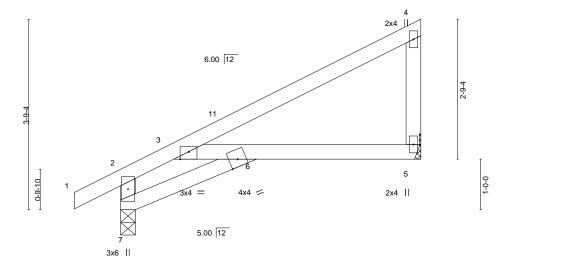
ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-y2UaLcpmRJchOl3Eq2C13K?Was9HvDAPGgObg?z2Q1j

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

-0-11-0 0-11-0 2-8-5 3-2-15

Scale = 1:22.8



**BRACING-**TOP CHORD

**BOT CHORD** 

Plate Offsets (X,Y) [3:0-2-0,Edge]							
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.41 BC 0.42 WB 0.03	DEFL.         in (loc)         l/defl         L/d         PLATES         GRIP           Vert(LL)         0.08         6 >865         240         MT20         197/14           Vert(CT)         -0.13         6 >520         180           Horz(CT)         0.05         5 n/a         n/a	14			
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Weight: 21 lb FT	= 20%			

LUMBER-

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

**WEBS** 2x4 SPF No.2 REACTIONS.

(size) 7=0-3-8, 5=Mechanical

Max Horz 7=115(LC 16)

Max Uplift 7=-26(LC 16), 5=-48(LC 16) Max Grav 7=335(LC 2), 5=274(LC 21)

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

TOP CHORD 2-7=-310/200

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Refer to girder(s) for truss to truss connections.
- 8) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 7 and 48 lb uplift at joint 5.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



RELEASE FOR CONSTRUCTION



M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Summit/Stoney Creek #86 141826284 2387107 JA4 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:33 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

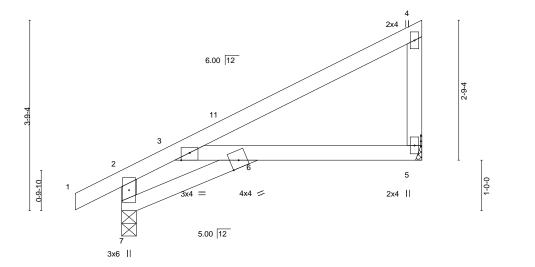
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Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

-0-11-0 0-11-0 3-2-15

Scale = 1:22.8



2-8-5	5-11-4
2-8-5	3-2-15

**BRACING-**TOP CHORD

**BOT CHORD** 

Plate Offsets (X,Y) [3:0-2-0,Edge]							
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.41 BC 0.42 WB 0.03	DEFL.         in (loc)         l/defl         L/d         PLATES         GRIP           Vert(LL)         0.08         6 >865         240         MT20         197/14           Vert(CT)         -0.13         6 >520         180           Horz(CT)         0.05         5 n/a         n/a	14			
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Weight: 21 lb FT	= 20%			

LUMBER-

REACTIONS.

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

**WEBS** 2x4 SPF No.2

> (size) 7=0-3-8, 5=Mechanical Max Horz 7=115(LC 16)

Max Uplift 7=-26(LC 16), 5=-48(LC 16) Max Grav 7=335(LC 2), 5=274(LC 21)

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

TOP CHORD 2-7=-310/200

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Refer to girder(s) for truss to truss connections.
- 8) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 7 and 48 lb uplift at joint 5.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



RELEASE FOR CONSTRUCTION

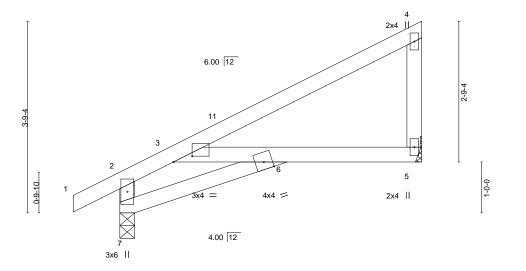
D ON PLANS REVIES ADMINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Riage Ru Chesterfield, MO 63017

M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826285 2387107 JA5 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:34 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-vRcKmlr1zwsPdcDcxTFV8l5sAgrON6ghj\_thkuz2Q1h 3-3-8 3-3-8

2-7-12

Scale = 1:22.7



2-7-12

**BRACING-**

TOP CHORD

**BOT CHORD** 

Plate Offsets (X,Y) [3:0-4-7,	0-1-6]							
LOADING (psf)   TCLL (roof)   25.0   Snow (Pf/Pg)   15.4/20.0   TCDL   10.0   BCLL   0.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES	CSI. TC 0.41 BC 0.45 WB 0.03	/	in (loc) -0.08 6-10 -0.13 6-10 0.04 5	l/defl >902 >529 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 21 lb	FT = 20%

LUMBER-

REACTIONS.

TOP CHORD

**WEBS** 

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

2x4 SPF No.2 (size) 7=0-3-8, 5=Mechanical

2-7=-304/189

Max Horz 7=114(LC 16) Max Uplift 7=-26(LC 16), 5=-48(LC 16) Max Grav 7=335(LC 2), 5=274(LC 21)

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

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

0-11-0

- 7) Refer to girder(s) for truss to truss connections.
- 8) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 7 and 48 lb uplift at joint 5.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

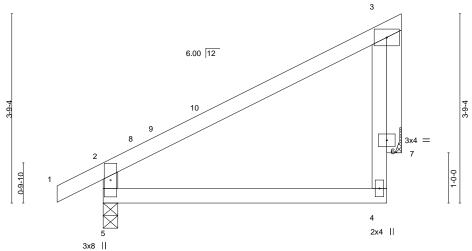
Rigid ceiling directly applied.

RELEASE FOR CONSTRUCTION

D ON PLANS REVIE B ADMINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Riage Ru Chesterfield, MO 63017

M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826286 2387107 JA6 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:34 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-vRcKmlr1zwsPdcDcxTFV8l5utguWN01hj\_thkuz2Q1h 0-11-0 Scale = 1:22.9 4x6 =



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI **PLATES** GRIP (loc) L/d TCLL (roof) 25.0 Plate Grip DOL Vert(LL) -0.03 240 197/144 1.15 TC 0.30 4-5 >999 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.25 Vert(CT) -0.07 4-5 >953 180 TCDI 10.0 Rep Stress Incr YES WB 0.39 Horz(CT) 0.02 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-AS Weight: 22 lb FT = 20% BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2

REACTIONS. (size) 5=0-3-8, 7=Mechanical

Max Horz 5=109(LC 16)

Max Uplift 5=-30(LC 16), 7=-42(LC 16) Max Grav 5=338(LC 2), 7=243(LC 21)

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

TOP CHORD 2-5=-285/162

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 5 and 42 lb uplift at
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

RELEASE FOR CONSTRUCTION

MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Riage Ru Chesterfield, MO 63017

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826287 2387107 JA7 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:35 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-NdAizerfkE\_FFmnpVAmkhyd1v4Ad6ZwryedFHKz2Q1g

2-7-12

2-7-12

Rigid ceiling directly applied.

Structural wood sheathing directly applied, except end verticals.

3-3-8 3-3-8

0-11-0

Scale = 1:22.7

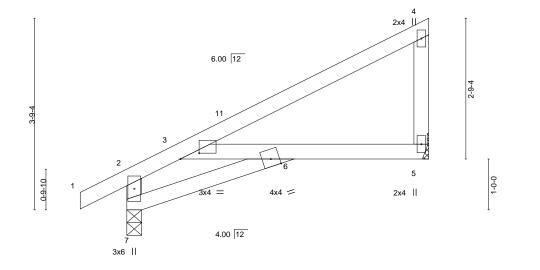


Plate Offsets (X,Y) [3:0-4-7,0-1-6]										
LOADING (psf)           TCLL (roof)         25.0           Snow (Pf/Pg)         15.4/20.0           TCDL         10.0           BCLL         0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.41 BC 0.45 WB 0.03 Matrix-AS	- ( /	-0.08 è	(loc) 6-10 6-10 5	l/defl >902 >529 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 21 lb	<b>GRIP</b> 197/144 FT = 20%	
BCDL 10.0	0000 11102010/11 12011	mann, 710						g 2	2070	

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

**WEBS** 2x4 SPF No.2

REACTIONS. (size) 7=0-3-8, 5=Mechanical

Max Horz 7=114(LC 16)

Max Uplift 7=-26(LC 16), 5=-48(LC 16) Max Grav 7=335(LC 2), 5=274(LC 21)

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

TOP CHORD 2-7=-304/189

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Refer to girder(s) for truss to truss connections.
- 8) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 7 and 48 lb uplift at joint 5.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



RELEASE FOR CONSTRUCTION

MINISTRATION IMIT, MISSOURI MiTek

16023 Swingley Riage Ru Chesterfield, MO 63017

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826288 2387107 JC1 Monopitch Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:36 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-rpk4BzsHVX66twM?3tHzDAAl4TcSr0b\_AlMopnz2Q1f 2-5-4 2-5-4 0-11-0 Scale = 1:11.5 5.00 12

				'		2-5-4						
LOADING (ps TCLL (roof) Snow (Pf/Pg) TCDL BCLL	25.0 25.0 15.4/20.0 10.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.06 0.02 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 0.00	(loc) 7 7 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL	10.0	Code IRC2018/TP	I2014	Matri	x-MP						Weight: 9 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

2-5-4

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 BOT CHORD

2x6 SPF No.2

3=Mechanical, 2=0-3-8, 4=Mechanical (size) Max Horz 2=44(LC 16)

Max Uplift 3=-18(LC 16), 2=-31(LC 16)

Max Grav 3=65(LC 21), 2=188(LC 21), 4=48(LC 7)

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

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 3 and 31 lb uplift at ioint 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 2-5-4 oc purlins.

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

RELEASE FOR CONSTRUCTION





M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826289 2387107 JC2 Diagonal Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:37 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-J0ITOJtvGrEzU4xBcboCmNjO3trTaTr8Py6MLDz2Q1e 3-5-2 3-5-2 1-5-3 Scale = 1:16.6 4x4 4 3.84 12 NAILED 12 1-8-3x4 = NAILED 5 4x6 II 15 16 0-0-1 0-9-10 4x4 13 14 NAILED 2x4 | NAILED 3x8 6-0-0 Plate Offsets (X,Y)-- [5:Edge,0-3-8], [6:0-3-0,0-0-8] LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/defl L/d **PLATES** GRIP 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.36 Vert(LL) -0.04 6 >999 240 MT20 197/144 15.4/20.0 Snow (Pf/Pg) Lumber DOL 1.15 ВС 0.49 Vert(CT) -0.06 6 >999 180 TCDL 10.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.02 5 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Matrix-MR Weight: 20 lb BCDL 10.0 LUMBER-**BRACING-**

TOP CHORD

**BOT CHORD** 

REACTIONS.

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

**WEBS** 2x4 SPF No.2

(size) 8=0-4-9, 4=Mechanical, 5=Mechanical

Max Horz 8=72(LC 31)

Max Uplift 8=-104(LC 12), 4=-25(LC 12), 5=-46(LC 9) Max Grav 8=412(LC 2), 4=117(LC 17), 5=236(LC 17)

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

TOP CHORD 2-8=-373/105, 2-3=-261/45, 3-4=-258/57

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 8, 25 lb uplift at joint 4 and 46 lb uplift at joint 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 10) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-51, 2-4=-51, 7-8=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 13=-7(B) 14=-7(F) 16=-111(B)



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

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

except end verticals.

RELEASE FOR CONSTRUCTION ED ON PLANS REVIE SADMINISTRATION MMIT, MISSOURI

> MiTek 16023 Swingley Riage Ru Chesterfield, MO 63017

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826290 2387107 JC3 Monopitch Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:38 2020 Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-nCsrbfuX19Mq6DWNAIJRlbFd2HHBJw5Hecrvtfz2Q1d

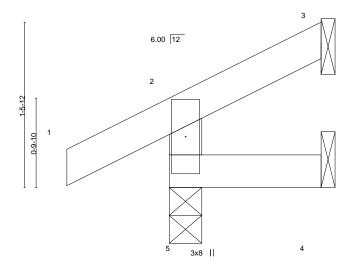
Structural wood sheathing directly applied or 1-4-5 oc purlins,

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

except end verticals.



Scale = 1:10.3



1-4-5 LOADING (psf) SPACING-2-0-0 DEFL. I/defI L/d **PLATES GRIP** CSI (loc) TCLL (roof) 25.0 Plate Grip DOL Vert(LL) 0.00 240 197/144 1.15 TC 0.09 5 >999 MT20 15.4/20.0 Snow (Pf/Pg) Lumber DOL 1.15 ВС 0.07 Vert(CT) -0.00 >999 180 5 TCDI 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-MR Weight: 5 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

BCDL

**WEBS** 

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

2x4 SPF No.2

10.0

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

Max Horz 5=58(LC 16)

Max Uplift 5=-70(LC 16), 4=-35(LC 16) Max Grav 5=162(LC 21), 4=27(LC 7)

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

## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=0.0 psf (Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.1 DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 5 and 35 lb uplift at ioint 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RELEASE FOR CONSTRUCTION

MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge RO Chesterfield, MO 63017

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

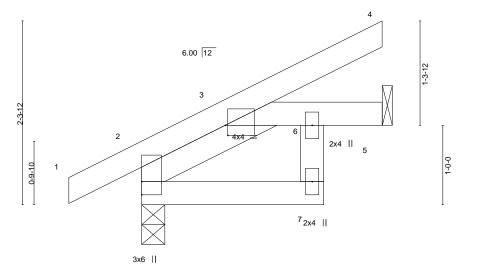
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:38 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-nCsrbfuX19Mq6DWNAIJRIbFeXHF9Jw5Hecrvtfz2Q1d

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

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

-0-11-0 2-3-8 3-0-5 0-11-0 2-3-8 0-8-13

Scale = 1:14.5



2-3-8 3-0-5 3-0-6 2-3-8 0-8-13 0-0-1

> BRACING-TOP CHORD

**BOT CHORD** 

Plate Offsets (X,Y) [3:0-0-6,0	0-1-8]							
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.06 BC 0.20 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.00 14 -0.01 7 0.00 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR					Weight: 13 lb	FT = 20%

LUMBER-

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

SLIDER Left 2x4 SPF No.2 1-10-1

REACTIONS.

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

Max Horz 2=67(LC 16)

Max Uplift 2=-17(LC 16), 5=-33(LC 16) Max Grav 2=219(LC 2), 5=144(LC 2)

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

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-3-7, Interior(1) 2-3-7 to 3-0-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 2 and 33 lb uplift at joint 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RELEASE FOR CONSTRUCTION



🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826292 2387107 JC5 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:39 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-FOPDp?u9oSUhkN5ak0qgroonlhbQ2NLRtFbSQ5z2Q1c 2-3-8 2-3-8 0-11-0 1-7-12 Scale = 1:16.7 6.00 12 -9-4 3x4 | 1-0-0 0-9-10 2x4 || 3x6 || 1-7-12 Plate Offsets (X,Y)-- [3:0-0-2,0-1-8] LOADING (psf) SPACING-GRIP 2-0-0 CSI DEFL. in (loc) I/defl L/d **PLATES** 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.16 Vert(LL) -0.01 14 >999 240 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.20 Vert(CT) -0.0214 >999 180 **TCDL** 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 5 n/a n/a

**BRACING-**

TOP CHORD

**BOT CHORD** 

Matrix-MR

LUMBER-

**BCLL** 

BCDL

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

SLIDER Left 2x4 SPF No.2 1-10-1

0.0

10.0

REACTIONS.

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

Code IRC2018/TPI2014

Max Horz 2=73(LC 16)

Max Uplift 4=-24(LC 16), 2=-17(LC 16), 5=-3(LC 16) Max Grav 4=118(LC 21), 2=288(LC 21), 5=78(LC 21)

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

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-3-7, Interior(1) 2-3-7 to 3-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 4, 17 lb uplift at joint 2 and 3 lb uplift at joint 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



FT = 20%

Weight: 15 lb

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

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

RELEASE FOR CONSTRUCTION

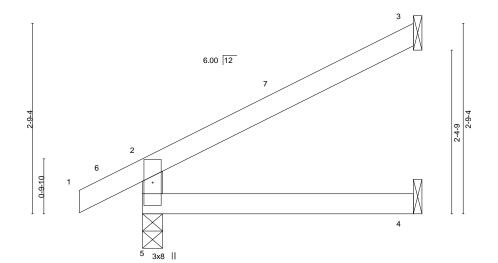


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826293 2387107 JC6 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:40 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-jbzb0LvoZmcYLXgmljMvO0Kxa5yXnqaa5vK0yYz2Q1b 3-11-4

Scale = 1:16.7



3-11-4

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES	CSI. TC 0.22 BC 0.14 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.02 -0.01	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a
BCDI 10.0	Code IRC2018/TPI2014	Matrix-MR	,				

0-11-0

GRIP 197/144

**PLATES** 

MT20

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

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

except end verticals.

Weight: 11 lb FT = 20%

LUMBER-

REACTIONS.

**WEBS** 

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

(size)

2x4 SPF No.2

Max Horz 5=87(LC 16) Max Uplift 5=-27(LC 16), 3=-38(LC 16)

Max Grav 5=280(LC 21), 3=128(LC 21), 4=70(LC 7)

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

5=0-3-8, 3=Mechanical, 4=Mechanical

TOP CHORD 2-5=-250/141

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 3-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 5 and 38 lb uplift at ioint 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RELEASE FOR CONSTRUCTION

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MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826294 2387107 JC7 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:41 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-BnXzEhwQJ4lPzhFyrRt8wDt7lUHFWHqjKZ4ZU\_z2Q1a 2-6-3 2-6-3 0-11-0 1-5-1 Scale = 1:16.7 6.00 12 -9-4 1-0-0 0-9-10 4x4 / 5.40 12 3x6 || 1-5-1 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl TCLL (roof) 25.0 Plate Grip DOL Vert(LL) -0.01 240 197/144 1.15 TC 0.13 6 >999 MT20

LUMBER-

TCDI

BCLL

BCDL

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

10.0

0.0

10.0

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

Snow (Pf/Pg) 15.4/20.0

7=0-3-8, 4=Mechanical, 5=Mechanical REACTIONS. (size)

Max Horz 7=88(LC 16)

Max Uplift 7=-19(LC 16), 4=-24(LC 16), 5=-4(LC 16) Max Grav 7=297(LC 21), 4=102(LC 21), 5=89(LC 7)

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

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

TOP CHORD 2-7=-279/146

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 3-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

1.15

YES

ВС

WB

Matrix-MR

0.18

0.00

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.02

0.01

>999

n/a

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

6

5

except end verticals.

180

n/a

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

- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 7) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 7, 24 lb uplift at joint 4 and 4 lb uplift at joint 5.
- 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.



Weight: 13 lb

FT = 20%

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D ON PLANS REVIE MIT, MISSOURI MiTek 16023 Swingley Riage Ru Chesterfield, MO 63017

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Summit/Stoney Creek #86 141826295 2387107 JC8 Jack-Open Supported Gable

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:42 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-gz5MR1x24NtGbrq9P8ONTRQG6ud1Fk4tZDp60Qz2Q1Z

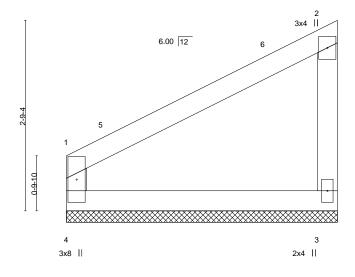
Structural wood sheathing directly applied or 3-11-4 oc purlins.

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

except end verticals.

3-11-4

Scale = 1:16.7



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES	CSI. TC 0.22 BC 0.14 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	,					Weight: 13 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. 4=3-11-4, 3=3-11-4 (size) Max Horz 4=82(LC 13)

Max Uplift 4=-10(LC 16), 3=-27(LC 13)

Max Grav 4=174(LC 20), 3=174(LC 20)

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

## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3E) 0-1-12 to 3-1-12, Exterior (2N) 3-1-12 to 3-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 4 and 27 lb uplift at
- 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.

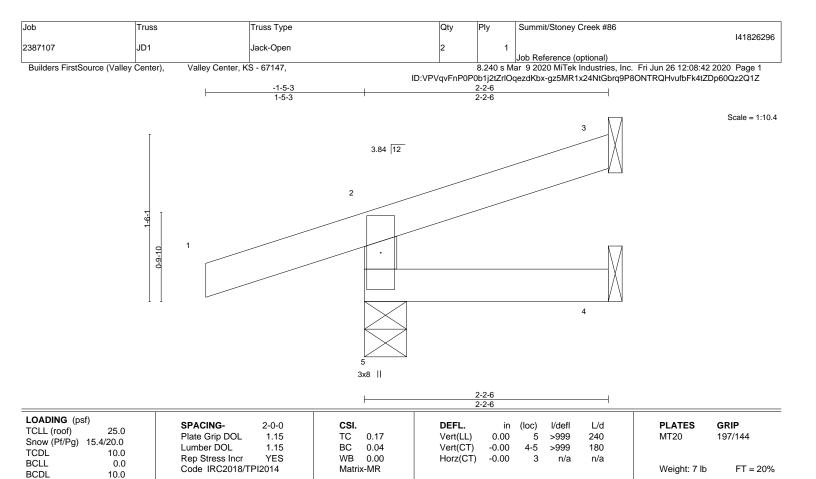


RELEASE FOR CONSTRUCTION





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



LUMBER-TOP CHORD

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

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

Structural wood sheathing directly applied or 2-2-6 oc purlins,

except end verticals

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

REACTIONS.

5=0-4-9, 3=Mechanical, 4=Mechanical (size)

Max Horz 5=52(LC 16)

Max Uplift 5=-62(LC 16), 3=-10(LC 13)

Max Grav 5=245(LC 21), 3=38(LC 21), 4=34(LC 7)

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

## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 5 and 10 lb uplift at ioint 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RELEASE FOR CONSTRUCTION





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826297 2387107 JD2 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:43 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-89fkfNygrh?7C?PLzsvc?eyT3I?2\_BK0ntZgZtz2Q1Y 2-0-0 0-11-0 2-0-0 Scale = 1:10.6 5.00 12 2 3x6 | LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI **PLATES** GRIP (loc) L/d TCLL (roof) 25.0 Plate Grip DOL Vert(LL) -0.00 240 197/144 1.15 TC 0.08 5 >999 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) -0.00 4-5 >999 180

LUMBER-

TCDI

BCLL

BCDL

TOP CHORD 2x4 SPF No.2

10.0

0.0

10.0

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

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

Max Horz 5=51(LC 16)

Max Uplift 5=-35(LC 16), 3=-15(LC 16)

Max Grav 5=181(LC 21), 3=47(LC 21), 4=33(LC 7)

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

Rep Stress Incr

Code IRC2018/TPI2014

## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

YES

WB

Matrix-MR

0.00

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.00

3

except end verticals

n/a

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

n/a

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

- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 5 and 15 lb uplift at ioint 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Weight: 6 lb

FT = 20%

RELEASE FOR CONSTRUCTION



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826298 JF1 2387107 Roof Special Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:44 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-cMD6sjylc?7\_q8zXXZQrYsVaZilbjeaA0XID5Jz2Q1X 4-8-12 1-5-7 4-8-12 Scale = 1:14.3 NAILED 3.84 12 0-11-0 0-9-10 NAILED 2.56 12 3x6 II

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         NO	CSI. TC 0.35 BC 0.20 WB 0.00	Vert(CT) -	in (loc) -0.02 4-5 -0.04 4-5 0.02 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR	- (- /				Weight: 13 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

(size)

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

**WEBS** 2x4 SPF No.2

> Max Horz 5=75(LC 12) Max Uplift 5=-63(LC 12), 3=-35(LC 12)

Max Grav 5=346(LC 17), 3=144(LC 17), 4=84(LC 7)

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

5=0-3-11, 3=Mechanical, 4=Mechanical

TOP CHORD 2-5=-301/85

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections
- 7) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 5 and 35 lb uplift at
- 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) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

## LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-51, 2-3=-51, 4-5=-20

Concentrated Loads (lb)

Vert: 8=-10(F)



Structural wood sheathing directly applied or 4-8-12 oc purlins,

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

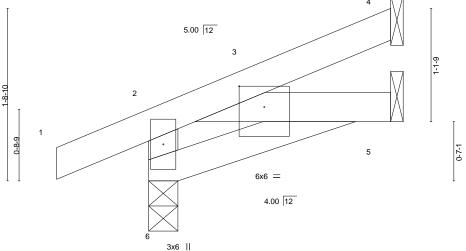
except end verticals.

RELEASE FOR CONSTRUCTION



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826299 2387107 JF2 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:45 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-4YnU32zwNIFrSIYk4Gx4532pX6hKS5qJFB2ndlz2Q1W 2-4-15 2-4-15 0-11-0 Scale = 1:11.5



2-0-12 2-4-15 2-0-12

Plate Offsets (X,Y) [3:0-	3-0,0-2-8]						
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES	CSI. TC 0.08 BC 0.04 WB 0.00	<b>DEFL.</b> Vert(LL) -0. Vert(CT) -0. Horz(CT) 0.	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR	, ,			Weight: 9 lb	FT = 20%

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 2-4-15 oc purlins,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 6=56(LC 16)

Max Uplift 6=-33(LC 16), 4=-14(LC 16), 5=-1(LC 16) Max Grav 6=196(LC 21), 4=53(LC 21), 5=35(LC 7)

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

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections
- 7) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 6, 14 lb uplift at joint 4 and 1 lb uplift at joint 5.
- 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.



RELEASE FOR CONSTRUCTION



M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826300 JF3 2387107 Jack-Open Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:46 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-YkLsHO\_Y8cNi3S7we\_SJdHazPV0QBY3SUrnKABz2Q1V 3-11-4 3-11-4 0-11-0 Scale = 1:14.6 5.00 12 1-4-4 1-11-13 5 9 0-8-9 4x4 = 4.00 12 3x6 || 3-3-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL (roof) 25.0 Plate Grip DOL Vert(LL) -0.01 240 197/144 1.15 TC 0.13 10 >999 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.11 Vert(CT) -0.01 6-7 >999 180 TCDI 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 5 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-MR Weight: 13 lb FT = 20% BCDL 10.0 LUMBER-BRACING-

TOP CHORD

BOT CHORD

REACTIONS.

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

**WEBS** 2x4 SPF No.2

> 7=0-3-8, 4=Mechanical, 5=Mechanical (size)

Max Horz 7=73(LC 16)

Max Uplift 7=-27(LC 16), 4=-16(LC 16), 5=-1(LC 16) Max Grav 7=288(LC 21), 4=84(LC 21), 5=111(LC 7)

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

TOP CHORD 2-7=-280/152

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-12, Interior(1) 2-1-12 to 3-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 7) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 7, 16 lb uplift at joint 4 and 1 lb uplift at joint 5.
- 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.



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

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

except end verticals

RELEASE FOR CONSTRUCTION



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826301 JF4 2387107 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:47 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-0xuFUk?BvwVZhci6Ch\_YAU791vMmw?JciVXtiez2Q1U 2-5-4 2-5-4 0-11-0 Scale = 1:11.5 5.00 12 3 1-1-1 2 0-7-1 4.00 12 3x6 Ш 2-0-12 2-0-12 Plate Offsets (X,Y)-- [3:0-3-0,0-2-8] LOADING (psf) SPACING-DEFL. (loc) 2-0-0 CSI. in I/defl L/d **PLATES** GRIP 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.08 Vert(LL) -0.00 3 >999 240 MT20 197/144 15.4/20.0 Snow (Pf/Pg) Lumber DOL 1.15 ВС 0.04 Vert(CT) -0.00 3 >999 180 **TCDL** 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 5 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Matrix-MR Weight: 9 lb

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

BCDL

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

**WEBS** 2x4 SPF No.2

10.0

(size) 6=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 6=56(LC 16)

Max Uplift 6=-33(LC 16), 4=-14(LC 16), 5=-1(LC 16) Max Grav 6=198(LC 21), 4=54(LC 21), 5=36(LC 7)

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

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections
- 7) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 6, 14 lb uplift at joint 4 and 1 lb uplift at joint 5.
- 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.



Structural wood sheathing directly applied or 2-5-4 oc purlins,

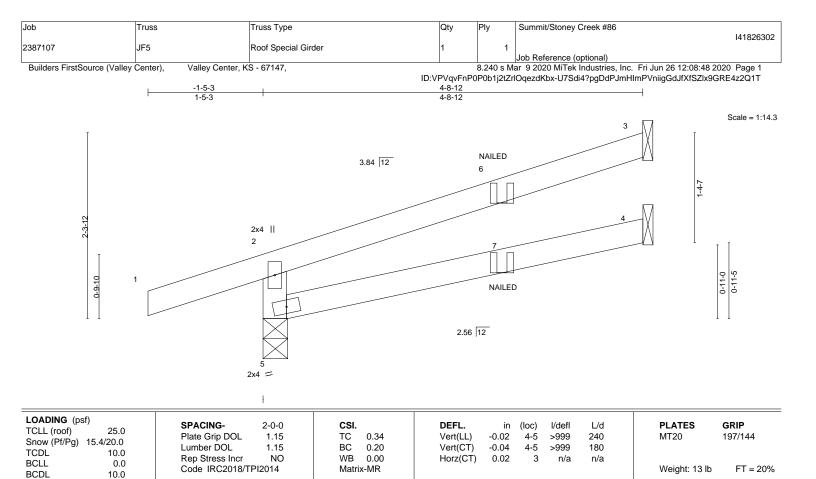
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

RELEASE FOR CONSTRUCTION

MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Riage Ru Chesterfield, MO 63017

M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

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

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

(size) 5=0-3-11, 3=Mechanical, 4=Mechanical Max Horz 5=75(LC 12)

Max Uplift 5=-63(LC 12), 3=-35(LC 12)

Max Grav 5=353(LC 17), 3=143(LC 17), 4=84(LC 7)

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

TOP CHORD 2-5=-308/84

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 5 and 35 lb uplift at joint 3.
- 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) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

## LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-51, 2-3=-51, 4-5=-20

Concentrated Loads (lb)

Vert: 7=-11(B)



Structural wood sheathing directly applied or 4-8-12 oc purlins,

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

except end verticals.

RELEASE FOR CONSTRUCTION



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE

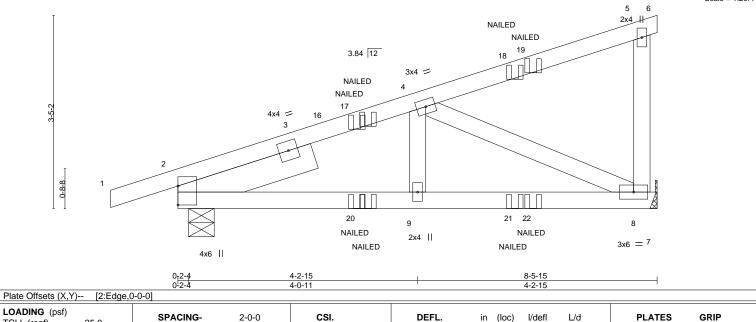
Job Truss Truss Type Qty Summit/Stoney Creek #86 141826303 2387107 JM1 Diagonal Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:49 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-yJ0?vQ0RRXlGwwsVJ600FvCPcj\_UOt5vAp0\_mWz2Q1S

4-2-15

8-5-15

4-2-15

Scale = 1:20.4



Vert(LL)

Vert(CT)

Horz(CT)

**BRACING-**

TOP CHORD

**BOT CHORD** 

-0.02

-0.03

0.01

8-9

8-9

except end verticals.

8

>999

>999

n/a

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

240

180

n/a

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

MT20

Weight: 35 lb

197/144

FT = 20%

LUMBER-

TCLL (roof)

TCDL

**BCLL** 

BCDL

Snow (Pf/Pg)

TOP CHORD 2x4 SPF No.2

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

**SLIDER** Left 2x6 SPF No.2 2-6-0

25.0

10.0

10.0

0.0

15.4/20.0

REACTIONS. (size) 8=Mechanical, 2=0-5-7

Max Horz 2=106(LC 11)

Max Uplift 8=-48(LC 9), 2=-74(LC 12) Max Grav 8=448(LC 17), 2=503(LC 2)

1-2-5

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

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

TOP CHORD 2-4=-521/51

BOT CHORD 2-9=-75/480, 8-9=-75/480

**WEBS** 4-8=-526/67

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

1.15

1.15

NO

TC

ВС

WB

Matrix-MP

0.46

0.28

0.17

- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 8 and 74 lb uplift at joint 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

## LOAD CASE(S) Standard

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

Vert: 1-5=-51, 5-6=-51, 7-10=-20

Vert: 18=-47(B) 19=-79(F) 20=0(F=-0, B=0) 21=-13(B) 22=-25(F)





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826304 2387107 JM2 Jack-Open Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:53 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-r5GWln3yVmFiPXAGYy4yPlNBWKQFKioU5R\_Cvlz2Q10

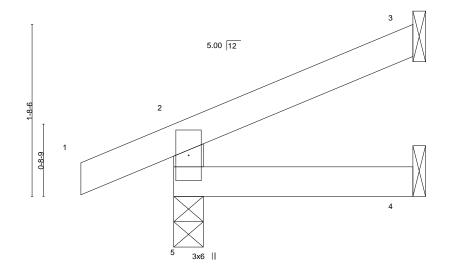
Structural wood sheathing directly applied or 2-4-5 oc purlins,

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

except end verticals.

0-11-0 2-4-5

Scale = 1:11.4



			2-4-5		1			
TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.08 BC 0.04 WB 0.00	Vert(CT) -	in (loc) -0.00 4-5 -0.00 4-5 -0.00 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR					Weight: 7 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

2-4-5

LUMBER-

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

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

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

Max Horz 5=54(LC 16)

Max Uplift 5=-34(LC 16), 3=-18(LC 16)

Max Grav 5=194(LC 21), 3=60(LC 21), 4=39(LC 7)

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

## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 5 and 18 lb uplift at ioint 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RELEASE FOR CONSTRUCTION





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826305 2387107 JM3 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:54 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-JHpuy74aG3NZ1hkS6fcByzwJXkjA392eJ5jlSkz2Q1N 0-11-0 Scale = 1:16.3 5.00 12 0-8-9

4-9-2 LOADING (psf) SPACING-CSI. DEFL. I/defI L/d **PLATES** GRIP 2-0-0 (loc) TCLL (roof) 25.0 Plate Grip DOL Vert(LL) 197/144 1.15 TC 0.32 -0.02 4-5 >999 240 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.18 Vert(CT) -0.04 4-5 >999 180 TCDI 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.02 3 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-AS Weight: 13 lb FT = 20% BCDL 10.0

LUMBER-

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

**BOT CHORD WEBS** 2x4 SPF No.2 BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

REACTIONS.

5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=82(LC 16)

Max Uplift 5=-35(LC 16), 3=-41(LC 16)

Max Grav 5=296(LC 21), 3=158(LC 21), 4=85(LC 7)

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

TOP CHORD 2-5=-261/163

# NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 4-8-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3x6 ||

- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 5 and 41 lb uplift at ioint 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



RELEASE FOR CONSTRUCTION

D ON PLANS REVIE MIT, MISSOURI MiTek 16023 Swingley Ridge RO Chesterfield, MO 63017

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826306 2387107 JM4 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:55 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-nTNGAT5C0NVQerJfgN7QVASPX8?poclnYITI\_Az2Q1M 6-7-4

6-7-4

4 5.00 12 3x4 = 3-5-9 3-4-2 3 0-8-9 5 3x6 || 2x4 ||

6-7-4

**BRACING-**TOP CHORD

**BOT CHORD** 

Plate Offsets (X,Y) [2:Edge,0-0-0]										
LOADING (psf)           TCLL (roof)         25.0           Snow (Pf/Pg)         15.4/20.0           TCDL         10.0           BCLL         0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.62 BC 0.41 WB 0.00 Matrix-AS	DEFL.         in (loc)         l/defl           Vert(LL)         -0.09         5-8         >856           Vert(CT)         -0.18         5-8         >430           Horz(CT)         0.04         2         n/a	240 180	PLATES MT20 Weight: 23 lb	<b>GRIP</b> 197/144 FT = 20%				
BCDL 10.0	0000 11102010/11 12011	mann, 710			110.g.m. 20 15	2070				

LUMBER-

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

**WEBS** 2x4 SPF No.2 **SLIDER** Left 2x4 SPF No.2 2-6-0

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

Max Horz 2=161(LC 16) Max Uplift 2=-16(LC 16), 5=-59(LC 16)

Max Grav 2=359(LC 2), 5=307(LC 21)

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

0-11-0

TOP CHORD 2-4=-388/109

## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 6-5-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 2 and 59 lb uplift at
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Scale = 1:20.8

2x4 ||

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

RELEASE FOR CONSTRUCTION

D ON PLANS REVIES

ADMINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Riage Ru Chesterfield, MO 63017

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826307 2387107 JM5 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:55 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

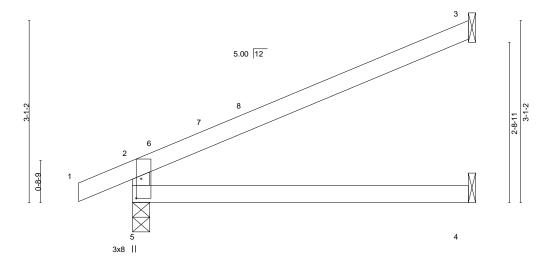
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Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

0-11-0 5-8-8

Scale = 1:19.6



**BRACING-**TOP CHORD

**BOT CHORD** 

Plate Offsets (X,Y) [2	0-0-12,0-1-12], [5:0-4-0,0-1-0], [5:0-0-0,0-1-12	2]							
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES	CSI. TC 0.47 BC 0.28 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	-0.04	4-5 >	/defl -999 -726 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS						Weight: 15 lb	FT = 20%

LUMBER-

REACTIONS.

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

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

Max Horz 5=93(LC 16) Max Uplift 5=-35(LC 16), 3=-50(LC 16)

Max Grav 5=329(LC 2), 3=193(LC 21), 4=102(LC 7)

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

TOP CHORD 2-5=-285/175

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-7-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 5 and 50 lb uplift at
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



RELEASE FOR CONSTRUCTION

D ON PLANS REVIES

ADMINISTRATION MIT, MISSOURI MiTek 16023 Swingley Riage Ru Chesterfield, MO 63017

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826308 2387107 JM6 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:56 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-FgxeNp6qnheHG\_urE4ef1O?huXQGX3YxnPCsWcz2Q1L 3-3-12 3-3-12 0-11-0 Scale = 1:13.3 5.00 12 -8-11 3-3-12 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL (roof) 25.0 4-5 Plate Grip DOL Vert(LL) 0.01 240 MT20 197/144 1.15 TC 0.13 >999 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.08 Vert(CT) -0.01 4-5 >999 180 TCDI 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-MR Weight: 9 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

BCDL

TOP CHORD 2x4 SPF No.2

10.0

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

**WEBS** 2x4 SPF No.2

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

Max Horz 5=65(LC 16)

Max Uplift 5=-34(LC 16), 3=-28(LC 16)

Max Grav 5=240(LC 21), 3=99(LC 21), 4=58(LC 7)

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

## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 3-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 5 and 28 lb uplift at joint 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 3-3-12 oc purlins,

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

except end verticals.

RELEASE FOR CONSTRUCTION

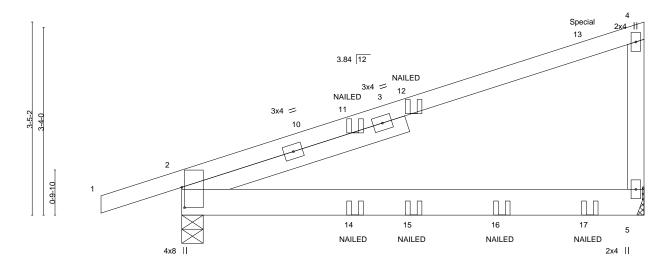




MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826309 2387107 JM7 Diagonal Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:57 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-jsV1b96SY\_m8u8T1no9uabYhpxd\_GWo403yP23z2Q1K 8-2-6 -1-5-3 1-5-3

Scale = 1:20.4



4-1-3

8-2-6

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

LOADING (psf) TCLL (roof) Snow (Pf/Pg) 15	25.0 5.4/20.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.83	DEFL. Vert(LL)	in -0.15	(loc) 5-8	l/defl >662	L/d 240	PLATES MT20	<b>GRIP</b> 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.26	5-8	>375	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.05	2	n/a	n/a		
		Code IRC2018/TF	PI2014	Matri	x-MP						Weight: 34 lb	FT = 20%
BCDL	10.0	0000 11(02010/11	12017	IVICUI	A IVII						Weight. 54 lb	1 1 = 2070

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

2x4 SPF 1650F 1.5E TOP CHORD

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

**SLIDER** Left 2x4 SPF No.2 4-1-15

REACTIONS. (size) 2=0-4-9, 5=Mechanical

Max Horz 2=159(LC 12)

Max Uplift 2=-68(LC 12), 5=-102(LC 12) Max Grav 2=526(LC 2), 5=588(LC 17)

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

TOP CHORD 2-4=-251/233, 4-5=-317/92

## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 2 and 102 lb uplift at
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 159 lb down and 76 lb up at 7-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

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

Vert: 1-4=-51, 5-6=-20

Concentrated Loads (lb)

Vert: 12=-22(B) 13=-133(B) 14=-4(F) 15=-5(B) 16=-120(F) 17=-45(B)



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

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

except end verticals.



MiTek 16023 Swingley Riage Ru Chesterfield, MO 63017

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826310 2387107 JM8 Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:58 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-C23PoV74Jlu?Vl2ELVg76p413L6o?zkEEjhzbVz2Q1J 1-11-15 1-7-0 6.00 12 Scale: 3/4"=1' 2x4 4x4 =

> 5 3x4 = 2x4 || 1-11-15

4

Structural wood sheathing directly applied or 3-7-0 oc purlins,

except end verticals, and 2-0-0 oc purlins: 1-2.

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

LOADING (psf)       TCLL (roof)     25.0       Snow (Pf/Pg)     20.4/20.0       TCDL     10.0       BCLL     0.0       BCDL     10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.09 BC 0.08 WB 0.02 Matrix-MS	Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.01 -0.00	(loc) 4-5 4-5 4	I/defI >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 14 lb	<b>GRIP</b> 197/144 FT = 209
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BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SPF No 2 2x4 SPF No.2

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

REACTIONS.

(size) 5=Mechanical, 4=Mechanical Max Horz 5=74(LC 13) Max Uplift 5=-22(LC 12), 4=-30(LC 13) Max Grav 5=158(LC 34), 4=148(LC 27)

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

## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 1-11-15, Interior(1) 1-11-15 to 3-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Unbalanced snow loads have been considered for this design.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 5 and 30 lb uplift at joint 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



RELEASE FOR CONSTRUCTION



M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826311 2387107 JM10 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:49 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-yJ0?vQ0RRXIGwwsVJ600FvCU3j14OvpvAp0\_mWz2Q1S

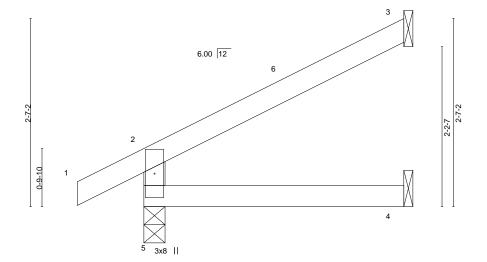
Structural wood sheathing directly applied or 3-7-0 oc purlins,

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

except end verticals.

3-7-0 3-7-0 0-11-0

Scale: 3/4"=1'



			3-7-0		1			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.17 BC 0.12 WB 0.00	Vert(CT)	in (loc) -0.01 4-5 -0.01 4-5 -0.01 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR					Weight: 10 lb	FT = 20%

3-7-0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

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

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

Max Horz 5=82(LC 16)

Max Uplift 5=-27(LC 16), 3=-35(LC 16)

Max Grav 5=261(LC 21), 3=113(LC 21), 4=63(LC 7)

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

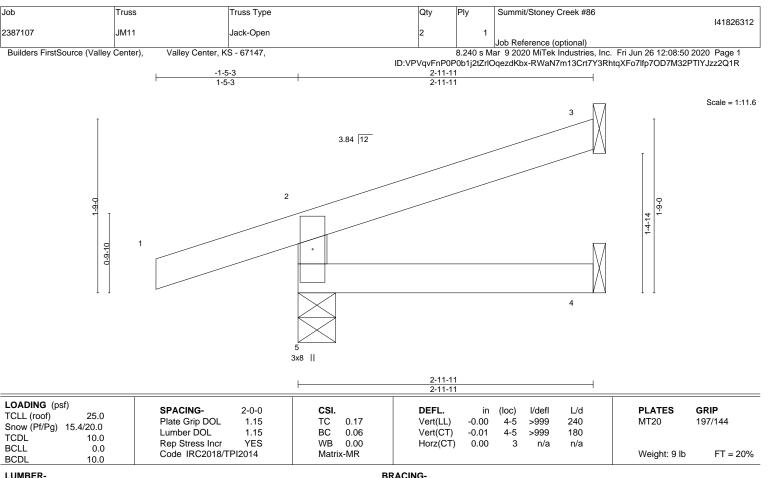
## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 3-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 5 and 35 lb uplift at joint 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RELEASE FOR CONSTRUCTION





TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SPF No.2

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

REACTIONS. 5=0-4-9, 3=Mechanical, 4=Mechanical (size)

Max Horz 5=58(LC 16)

Max Uplift 5=-59(LC 16), 3=-18(LC 16)

Max Grav 5=274(LC 21), 3=73(LC 21), 4=49(LC 7)

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

## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 5 and 18 lb uplift at ioint 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

except end verticals

RELEASE FOR CONSTRUCTION



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826313 2387107 JM12 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:51 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-vi8lK62hz8?\_AD0tRX2UKKIr\_WkkspJCd7V5rPz2Q1Q

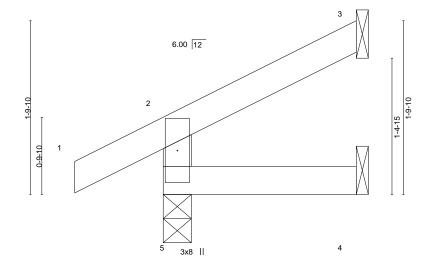
Structural wood sheathing directly applied or 2-0-0 oc purlins,

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

except end verticals.

2-0-0 0-11-0 2-0-0

Scale: 1"=1"



2-0-0 2-0-0

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.08 BC 0.04 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 -0.00	(loc) 5 4-5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR	(5.1)		_		., -	Weight: 7 lb	FT = 20%

LUMBER-

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

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

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

Max Horz 5=61(LC 16) Max Uplift 5=-28(LC 16), 3=-18(LC 16)

Max Grav 5=185(LC 21), 3=48(LC 21), 4=33(LC 7)

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

## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 5 and 18 lb uplift at joint 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RELEASE FOR CONSTRUCTION



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826314 2387107 JM13 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:52 2020 Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

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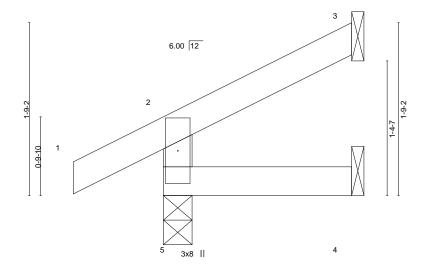
Structural wood sheathing directly applied or 1-11-0 oc purlins,

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

except end verticals.

1-11-0 0-11-0 1-11-0

Scale = 1:11.7



1-11-0	
1-11-0	1

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf)   TCLL (roof)   25.0   Snow (Pf/Pg)   15.4/20.0   TCDL   10.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES	CSI. TC 0.08 BC 0.04 WB 0.00	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.00         5 >999         240           Vert(CT)         -0.00         5 >999         180           Horz(CT)         -0.00         3 n/a         n/a	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR		Weight: 6 lb FT = 20%

LUMBER-

REACTIONS.

2x4 SPF No.2 TOP CHORD

(size)

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

5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=60(LC 16)

Max Uplift 5=-29(LC 16), 3=-17(LC 16) Max Grav 5=181(LC 21), 3=45(LC 21), 4=32(LC 7)

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

## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 5 and 17 lb uplift at ioint 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RELEASE FOR CONSTRUCTION





M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

 Job
 Truss
 Truss Type
 Qty
 Ply
 Summit/Stoney Creek #86

 2387107
 JM14
 Jack-Open
 1
 1
 1

 Job Reference (optional)
 Job Reference (optional)
 1
 1

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

Job Reference (optional)

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:52 2020 Page 1
ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-Nui8XS2JkS7rnNb4?EZjtYq1Hw4xbFZLsnEeNrz2Q1P

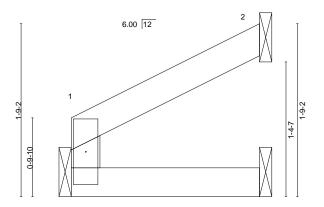
Structural wood sheathing directly applied or 1-11-0 oc purlins,

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

except end verticals.

1-11-0 1-11-0

Scale = 1:11.7



3x8 || 4

1-11-0 1-11-0

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.04 BC 0.04 WB 0.00	DEFL.         in (loc)         l/defl           Vert(LL)         -0.00         4         >999           Vert(CT)         -0.00         3-4         >999           Horz(CT)         -0.00         2         n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR			Weight: 5 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 4=Mechanical, 2=Mechanical, 3=Mechanical

Max Horz 4=37(LC 16)

Max Uplift 2=-22(LC 16) Max Grav 4=79(LC 2), 2=57(LC 2), 3=34(LC 7)

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

## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 2.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RELEASE FOR CONSTRUCTION



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826316 JP1 2387107 Jack-Open Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:59 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-gEdn?r8i4c0s7SdQvDBMf0dA6lSpkQHNTNRW7xz2Q1I 1-5-3 Scale = 1:12.3 <sup>6</sup>NAILED 3.84 12 1-10-122 0-9-10 NAILED 3x8 || LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl TCLL (roof) 25.0 Plate Grip DOL Vert(LL) 240 197/144 1.15 TC 0.20 -0.00 4-5 >999 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.09 Vert(CT) -0.01 4-5 >999 180 TCDI 10.0

LUMBER-

BCLL

BCDL

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

0.0

10.0

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

REACTIONS.

5=0-4-9, 3=Mechanical, 4=Mechanical (size) Max Horz 5=62(LC 12)

Rep Stress Incr

Code IRC2018/TPI2014

Max Uplift 5=-59(LC 12), 3=-23(LC 12)

Max Grav 5=294(LC 17), 3=92(LC 17), 4=58(LC 7)

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

TOP CHORD 2-5=-259/76

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

NO

WB

Matrix-MR

0.00

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

3

except end verticals.

n/a

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

n/a

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

- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 5 and 23 lb uplift at joint 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15. Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-51, 2-3=-51, 4-5=-20 Concentrated Loads (lb) Vert: 6=-12(F) 7=-0(F)



Weight: 10 lb

FT = 20%

RELEASE FOR CONSTRUCTION



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826317 JP2 2387107 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:00 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-8RB9DB9Lrv8ilcCcTwibCEANl9otTtXWi1A3fOz2Q1H 0-11-0 2-4-10

> 5.00 12 8-8-2 4

2-4-10 2-4-10 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL (roof) 25.0 Plate Grip DOL Vert(LL) -0.00 240 197/144 1.15 TC 0.08 4-5 >999 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.04 Vert(CT) -0.00 4-5 >999 180 TCDI 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-MR Weight: 7 lb FT = 20% BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

3x6

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

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

**WEBS** 2x4 SPF No.2

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=55(LC 16)

Max Uplift 5=-34(LC 16), 3=-18(LC 16)

Max Grav 5=195(LC 21), 3=61(LC 21), 4=40(LC 7)

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

## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 5 and 18 lb uplift at ioint 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 2-4-10 oc purlins,

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

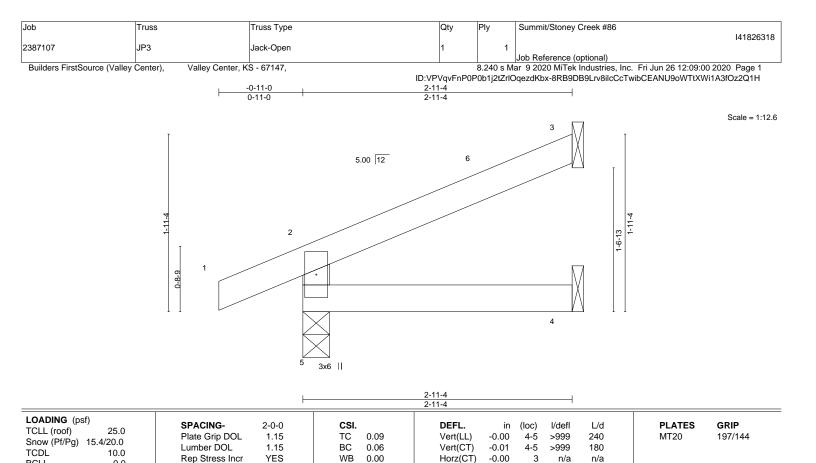
except end verticals

Scale = 1:11.4

RELEASE FOR CONSTRUCTION



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



BRACING-

TOP CHORD

BOT CHORD

Matrix-MR

LUMBER-

REACTIONS.

BCLL

BCDL

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

0.0

10.0

**WEBS** 2x4 SPF No.2

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=61(LC 16)

Max Uplift 5=-34(LC 16), 3=-24(LC 16)

Max Grav 5=221(LC 21), 3=84(LC 21), 4=50(LC 7)

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

Code IRC2018/TPI2014

## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 2-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 5 and 24 lb uplift at joint 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Weight: 9 lb

Structural wood sheathing directly applied or 2-11-4 oc purlins,

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

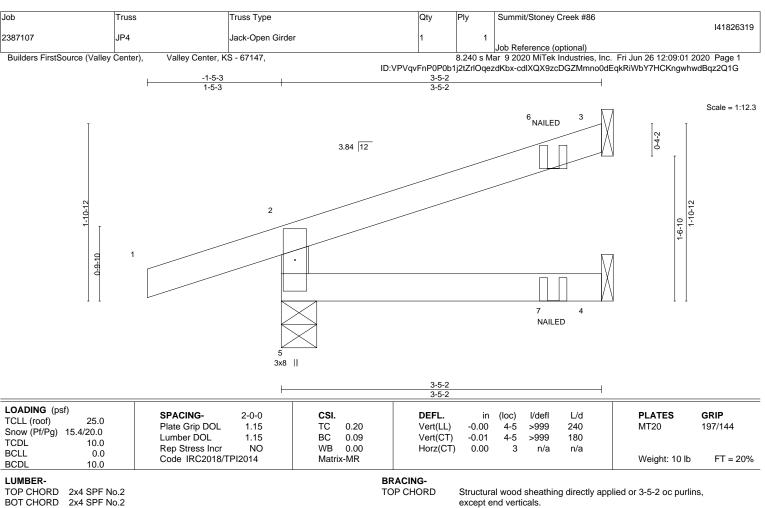
except end verticals.

FT = 20%

RELEASE FOR CONSTRUCTION

D ON PLANS REVIE B ADMINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Rigge Ru Chesterfield, MO 63017

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



BOT CHORD

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

REACTIONS.

**WEBS** 2x4 SPF No.2

> 5=0-4-9, 3=Mechanical, 4=Mechanical (size)

Max Horz 5=62(LC 12)

Max Uplift 5=-59(LC 12), 3=-23(LC 12)

Max Grav 5=294(LC 17), 3=92(LC 17), 4=58(LC 7)

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

TOP CHORD 2-5=-259/76

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 5 and 23 lb uplift at joint 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15. Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-51, 2-3=-51, 4-5=-20

Concentrated Loads (lb)

Vert: 6=-12(B) 7=-0(B)



RELEASE FOR CONSTRUCTION



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826320 2387107 LG1 GABLE

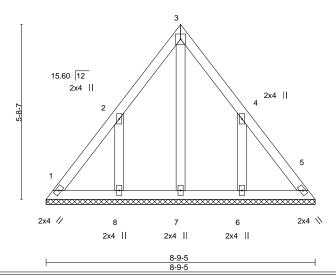
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:02 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-4plwesAbNXOQ\_vM?aLl3HfFj8yURxnNp9LfAkGz2Q1F

4-4-10 4-4-10

> Scale = 1:37.6 4x4 =



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES	CSI. TC 0.08 BC 0.03 WB 0.04	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 37 lb	FT = 20%

LUMBER-

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

**OTHERS** 2x4 SPF No.2 BRACING-

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

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

REACTIONS. All bearings 8-9-5.

(lb) - Max Horz 1=-144(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-138(LC 14), 6=-138(LC 14) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=282(LC 23), 6=282(LC 24)

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

2-8=-271/210, 4-6=-271/210 **WEBS** 

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-9 to 3-3-9, Interior(1) 3-3-9 to 4-4-10, Exterior(2R) 4-4-10 to 7-4-10, Interior(1) 7-4-10 to 8-5-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=138, 6=138,
- 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.



RELEASE FOR CONSTRUCTION

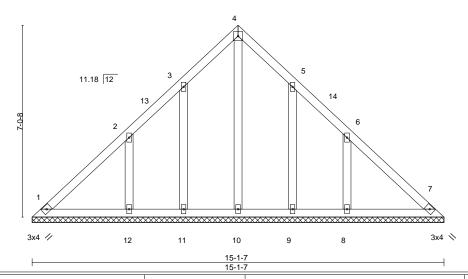




Job Truss Truss Type Qty Summit/Stoney Creek #86 141826321 2387107 LG2 GABLE Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:07 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-Rn6phaEkC30j5hEyNuLE\_iyaSzA4c1wYJcNxPUz2Q1A

7-6-12

Scale = 1:42.3 4x4 =



LOADING (psf) SPACING-TCLL (roof) 25.0 Plate Grip DOL Snow (Pf/Pg) 15.4/20.0 Lumber DOL TCDI 10.0 Rep Stress Incr BCLL 0.0 Code IRC2018/TPI2014 BCDL 10.0

CSI. TC 0.11 вс 0.06 WB 0.09 Matrix-S

DEFL. I/defI L/d Vert(LL) 999 n/a n/a Vert(CT) n/a 999 n/a Horz(CT) 0.00 n/a n/a **PLATES** MT20

GRIP 197/144

Weight: 64 lb FT = 20%

LUMBER-

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

BRACING-

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

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

REACTIONS. All bearings 15-1-7.

Max Horz 1=-159(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 9 except 12=-103(LC 14), 8=-103(LC 14)

2-0-0

1.15

1.15

YES

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 9 except 12=315(LC 23), 8=316(LC 24)

7-6-12

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

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-7 to 3-6-12, Interior(1) 3-6-12 to 7-6-12, Exterior(2R) 7-6-12 to 10-6-12, Interior(1) 10-6-12 to 14-9-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 9 except (it=lb) 12=103, 8=103,
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RELEASE FOR CONSTRUCTION





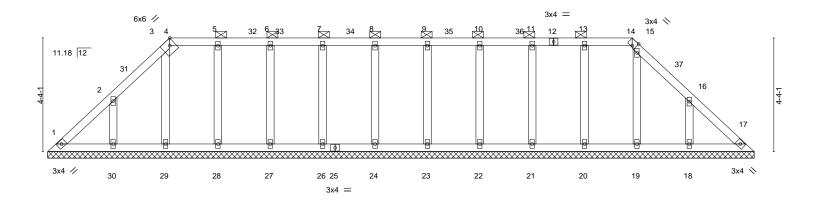
M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826322 GABLE 2387107 LG3 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:08 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-vzgBuwFMzN8aiqp9xcsTWwVm0NXqLVriXG6Vxwz2Q19 26-11-12

17-7-15

Scale = 1:44.0

4-7-14



· ·		26-11-12							
Plate Offsets (X,Y) [3:0-2-6,0-0-0], [4:0-2-6,Edge], [4:0-1-3,0-1-4], [14:0-1-10,Edge]									
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES	CSI. TC 0.06 BC 0.03 WB 0.04	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 17	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 BCDI 10.0	Code IRC2018/TPI2014	Matrix-S						Weight: 111 lb	FT = 20%

LUMBER-**BRACING-**

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

**BOT CHORD** 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 4-14.

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

REACTIONS. All bearings 26-11-12.

4-7-14

(lb) -Max Horz 1=-96(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 30, 28, 27, 26, 24, 23, 22, 21, 20, 18

Max Grav All reactions 250 lb or less at joint(s) 1, 17, 30, 29, 28, 27, 26, 24, 23, 22, 21, 20, 19, 18

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-7 to 3-4-7, Interior(1) 3-4-7 to 4-7-14, Exterior(2R) 4-7-14 to 8-10-13, Interior(1) 8-10-13 to 22-3-13, Exterior(2E) 22-3-13 to 26-7-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 30, 28, 27, 26, 24, 23, 22, 21, 20, 18.
- 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.



RELEASE FOR CONSTRUCTION



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826323 2387107 LG4 GABLE Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:10 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-rMnxJcGcU\_Oly8zX20uxbLa6fBDHpON??abb0oz2Q17 8-8-4 8-8-4

> Scale = 1:50.6 3x4 =

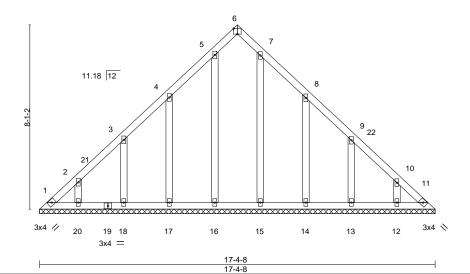


Plate Offsets (X.Y)-- [6:0-2-0.Edge]

1 1010 0110010 (71) 17 [010 2 0]				
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES	CSI. TC 0.05 BC 0.03 WB 0.11	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         n/a         -         n/a         999           Vert(CT)         n/a         -         n/a         999           Horz(CT)         0.00         11         n/a         n/a	<b>PLATES GRIP</b> MT20 197/144
BCLL 0.0	Code IRC2018/TPI2014	Matrix-S		Weight: 81 lb FT = 20%
BCDL 10.0	0000 11(02010/11 12014	Wattix 6		VVCIGITE 01 ID 11 = 2070

LUMBER-

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

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS. All bearings 17-4-8.

Max Horz 1=-184(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 20, 18, 17, 16, 14, 13, 12 Max Grav All reactions 250 lb or less at joint(s) 1, 11, 20, 18, 17, 16, 15, 14, 13, 12

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-7 to 3-4-7, Interior(1) 3-4-7 to 8-8-4, Exterior(2R) 8-8-4 to 11-8-6, Interior(1) 11-8-6 to 17-0-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 20, 18, 17, 16, 14, 13, 12.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RELEASE FOR CONSTRUCTION



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826324 2387107 LG5 GABLE Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:11 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-JYLJXxHEFIW9ZlYjckPA8Y7F9aZCYrz8EEL9YFz2Q16

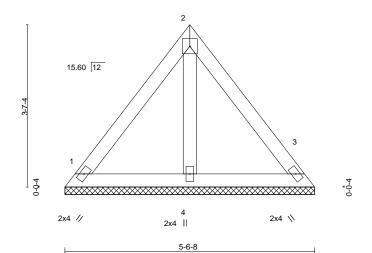
Structural wood sheathing directly applied or 5-6-8 oc purlins.

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

5-6-8 2-9-4 2-9-4

Scale = 1:25.6

4x4 =



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES	CSI. TC 0.13 BC 0.05 WB 0.02	DEFL. Vert(LL) Vert(CT) Horz(CT)	in ( n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	11012(01)	0.00	Ü	n, a	11/4	Weight: 19 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

1=5-6-8, 3=5-6-8, 4=5-6-8 (size) Max Horz 1=87(LC 13) Max Uplift 1=-26(LC 14), 3=-26(LC 14)

Max Grav 1=144(LC 2), 3=144(LC 2), 4=157(LC 2)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.



RELEASE FOR CONSTRUCTION



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826325 2387107 LG6 GABLE

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:13 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-FxT4ydJUnvnspch6j9ReDzCYcOEy0l5RhYqFd7z2Q14

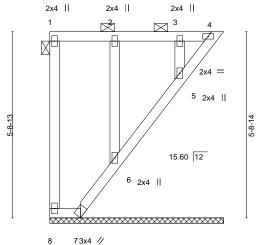
2-0-0 oc purlins: 1-4, except end verticals.

6-0-0 oc bracing: 4-5.

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

5-4-4

Scale = 1:35.5



Ш

0-11-5	5-4-4
0-11-5	1-1-15

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES	CSI. TC 0.26 BC 0.03 WB 0.04	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - -	I/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	11012(01)	-0.00		II/a	II/a	Weight: 27 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2 WEBS **OTHERS** 2x4 SPF No.2

REACTIONS. All bearings 5-4-4.

Max Horz 8=-137(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 8, 4, 7, 6, 5 Max Grav All reactions 250 lb or less at joint(s) 8, 4, 7, 6, 5

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

### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 7, 6, 5.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4, 6, 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



RELEASE FOR CONSTRUCTION



M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

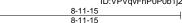
Job Truss Truss Type Summit/Stoney Creek #86 141826326 2387107 LG7 GABLE Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:13 2020 Page 1

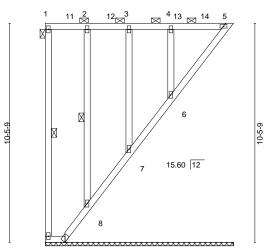
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-FxT4ydJUnvnspch6j9ReDzCUcODU0kWRhYqFd7z2Q14

Scale = 1:55.0





10 9 3x4 //

Q-11-5<sub>1</sub>

	0-1	1-5 8-0-10	)						
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES	CSI. TC 0.52 BC 0.06 WB 0.08	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0	Code IRC2018/TPI2014	Matrix-P	11012(01)	0.01	Ŭ	Π/α	11/4	Weight: 61 lb	FT = 20%

8-11-15

LUMBER-

BCDL

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD **WEBS** 2x4 SP 2400F 2.0E

10.0

**OTHERS** 2x4 SPF No.2 BRACING-

TOP CHORD **BOT CHORD WEBS** 

2-0-0 oc purlins: 1-5, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt 1-10, 2-8

REACTIONS. All bearings 8-11-15.

Max Horz 10=-256(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 10, 8, 7, 6 except 5=-158(LC 14), 9=-165(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 10, 5, 9, 8, 7 except 6=252(LC 2)

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

BOT CHORD 8-9=-308/294, 7-8=-301/286, 6-7=-300/289, 5-6=-305/283

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 5-8-6, Corner(3) 5-8-6 to 8-8-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8, 7, 6 except (jt=lb) 5=158, 9=165.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 8, 7, 6.
- 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.



RELEASE FOR CONSTRUCTION



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826327 2387107 LG8 GABLE Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:14 2020 Page 1

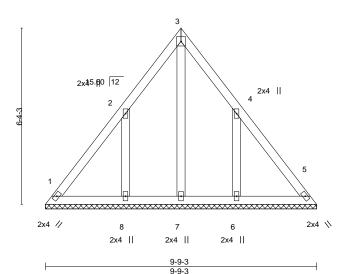
Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-k71S9zK7YDvjQlGlHsztmBlmxoa1lC2awCZp9az2Q13

4-10-9 4-10-9

> Scale = 1:41.5 4x4 =

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

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



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL (roof) 25.0 Plate Grip DOL Vert(LL) 999 MT20 197/144 1.15 TC 0.09 n/a n/a Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.04 Vert(CT) 999 n/a n/a TCDI 10.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 5 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 42 lb FT = 20% BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. All bearings 9-9-3.

Max Horz 1=-161(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-150(LC 14), 6=-150(LC 14) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=318(LC 23), 6=318(LC 24)

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

2-8=-281/214, 4-6=-281/214 **WEBS** 

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-9 to 3-3-9, Interior(1) 3-3-9 to 4-10-9, Exterior(2R) 4-10-9 to 7-10-9, Interior(1) 7-10-9 to 9-5-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=150, 6=150,
- 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.



RELEASE FOR CONSTRUCTION

MINISTRATION MIT, MISSOURI MiTek 16023 Swingley Ridge RO Chesterfield, MO 63017

M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Summit/Stoney Creek #86 141826328 2387107 LG9 GABLE

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:15 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-CJbqMJKlJW1a2vrVraU6lOHqTCw8Udxk8sJMh0z2Q12

2-0-0 oc purlins: 1-5, except end verticals.

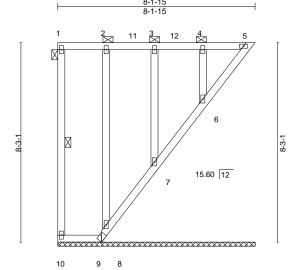
6-0-0 oc bracing: 5-6.

1 Row at midpt

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

1-10

Scale: 1/4"=1'



1-9-12 8-1-15 6-4-3

3x4 //

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES	CSI. TC 0.56 BC 0.05 WB 0.15	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0	Code IRC2018/TPI2014	Matrix-P	` ′					Weight: 48 lb	FT = 20%
BCDL 10.0	0000 11102010/11 12011	Tricking 1						110.g.m. 10.5	2070

BRACING-

TOP CHORD

BOT CHORD

**WEBS** 

LUMBER-

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

WEBS 2x4 SPF No.2

(lb) -

**OTHERS** 2x4 SPF No.2 REACTIONS. All bearings 8-1-15.

Max Horz 10=-201(LC 12) Max Uplift All uplift 100 lb or less at joint(s) 10, 8, 7, 6 except 5=-123(LC 14), 9=-187(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 10, 5, 9, 8, 7, 6

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

BOT CHORD 8-9=-276/291

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 4-10-6, Corner(3) 4-10-6 to 7-10-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8, 7, 6 except (jt=lb) 5=123, 9=187.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 8, 7, 6.
- 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.



RELEASE FOR CONSTRUCTION

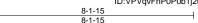
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Job Truss Truss Type Summit/Stoney Creek #86 141826329 2387107 LG10 GABLE Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:03 2020 Page 1

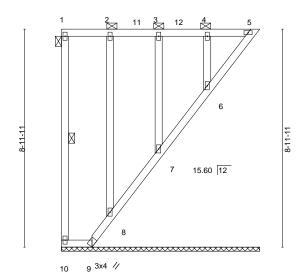
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-Y0sIrCBD8qWHc3wB82GlpsnlfMqNgCzzO\_PkGiz2Q1E



Scale = 1:47.4



. 1-3-1	8-1-15	
1-3-1	6-10-14	

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.67 BC 0.05 WB 0.15	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 5	I/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 49 lb	FT = 20%

BRACING-

LUMBER-

TOP CHORD 2x4 SPF No.2

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

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

6-0-0 oc bracing: 5-6. **WEBS** 1 Row at midpt 1-10

2-0-0 oc purlins: 1-5, except end verticals.

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

REACTIONS. All bearings 8-1-15. Max Horz 10=-219(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 10, 8, 7, 6 except 5=-134(LC 14), 9=-144(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 10, 5, 9, 8, 7, 6

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

BOT CHORD 8-9=-270/259, 7-8=-261/250, 6-7=-261/250, 5-6=-262/242

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 4-10-6, Corner(3) 4-10-6 to 7-10-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8, 7, 6 except (jt=lb) 5=134, 9=144.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 8, 7, 6.
- 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.



RELEASE FOR CONSTRUCTION





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826330 GABLE 2387107 LG11 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:04 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-0CQg3YCrv8e8EDVNimnXM4K1Ym9lPga6de8Ho9z2Q1D 17-7-3 7-6-6 Scale = 1:43.9 3x4 =3x4 × 29 5 <del>30\_6</del> ⊠<sup>9 31 32</sup> ⊠ <sup>10</sup> 11 33 12 11.18 12 13 34 14

28 27 26 25 24 23 22 21 20 19 18 17 16 3x4 = Plate Offsets (X,Y)-- [7:0-1-12,0-1-8], [11:0-1-10,Edge]

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.22 BC 0.10 WB 0.13	DEFL.         in (loc)         I/defl         L/d           Vert(LL)         n/a         -         n/a         999           Vert(CT)         n/a         -         n/a         999           Horz(CT)         0.01         15         n/a         n/a	<b>PLATES GRIP</b> MT20 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 140 lb FT = 20%

LUMBER-**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-11. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing **OTHERS** 2x4 SPF No.2

REACTIONS. All bearings 25-1-9.

Max Horz 28=-235(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 28, 15, 27, 26, 25, 24, 22, 21, 20, 19, 18, 17, 16 Max Grav All reactions 250 lb or less at joint(s) 28, 15, 27, 26, 25, 24, 22, 21, 20, 19, 18, 17 except 16=260(LC 24)

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

TOP CHORD 14-15=-332/265

**BOT CHORD** 27-28=-200/267, 26-27=-200/267, 25-26=-200/267, 24-25=-200/267, 22-24=-200/267,

21-22=-200/267, 20-21=-200/267, 19-20=-200/267, 18-19=-200/267, 17-18=-200/267,

16-17=-200/267, 15-16=-200/267

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 17-7-3, Exterior(2R) 17-7-3 to 20-7-3, Interior(1) 20-7-3 to 24-9-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 15, 27, 26, 25, 24, 22, 21, 20, 19, 18, 17, 16,
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



RELEASE FOR CONSTRUCTION

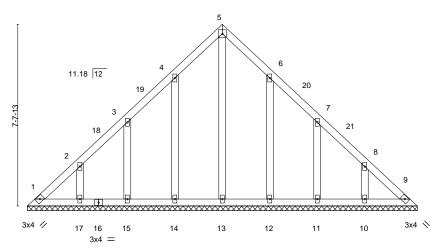


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826331 2387107 LG12 GABLE Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:06 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-zbYQTED5RlusTXfmpBp?RVPQbZsRtaBP4ydOt1z2Q1B 8-2-9 8-2-9 16-5-2 8-2-9

> Scale = 1:48.5 4x4 =



LOADING (psf) SPACING-2-0-0 CSI. TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.05 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.03 TCDI 10.0 Rep Stress Incr YES WB 0.12 BCLL 0.0 Code IRC2018/TPI2014 Matrix-S BCDL 10.0

DEFL. I/defI L/d Vert(LL) n/a n/a 999 Vert(CT) 999 n/a n/a Horz(CT) 0.00 9 n/a n/a

GRIP

197/144

**PLATES** 

MT20

Weight: 74 lb FT = 20%

LUMBER-

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

BRACING-

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

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

REACTIONS. All bearings 16-5-2.

Max Horz 1=-174(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 14, 15, 17, 12, 11, 10 Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 14, 15, 17, 12, 11, 10

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-7 to 3-4-7, Interior(1) 3-4-7 to 8-2-9, Exterior(2R) 8-2-9 to 11-2-9, Interior(1) 11-2-9 to 16-0-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 14, 15, 17,
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Job Truss Truss Type Qty Summit/Stoney Creek #86 141826332 2387107 M1 Roof Special Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:18 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-cuGz?LNdcRP9vNa4Wi1pw1vHSPoAhnUArqX0lLz2Q1? 15-4-1 20-8-0

5-0-1

1-8-0

Structural wood sheathing directly applied or 2-8-10 oc purlins,

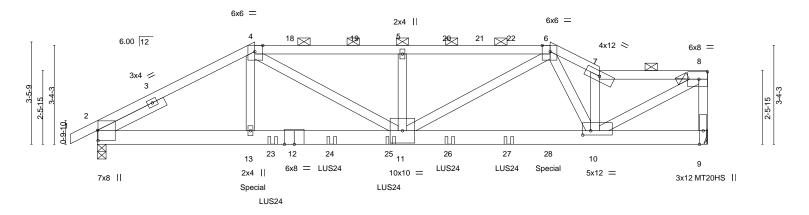
Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals, and 2-0-0 oc purlins (2-6-8 max.): 4-6, 7-8.

3-7-15

5-0-1

Scale = 1:39.0



	5-3-15	10	0-4-0	15-4-	1	17-0-1	20-8-0	
	5-3-15	5	i-0-1	5-0-1		1-8-0	3-7-15	<u> </u>
Plate Offsets (X,Y) [2:0-4-3,	0-0-4], [4:0-3-4,Edge], [6:0	-3-4,Edge], [10:0	0-3-4,0-1-12]					
LOADING (psf)   TCLL (roof)   25.0   Snow (Pf/Pg)   20.4/20.0   TCDL   10.0   BCDL   0.0   BCDL   10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI	2-0-0 1.15 1.15 NO  2014	CSI. TC 0.83 BC 0.67 WB 0.99 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.22 10-11 -0.37 10-11 0.04 9	>999 2 >670 1	_/d	197/144

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

6-7,7-8: 2x4 SPF No.2

**BOT CHORD** 2x6 SPF 2100F 1.8E

2x4 SPF No.2 **WEBS** 

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

REACTIONS. 9=Mechanical, 2=0-3-8 (size)

Max Horz 2=94(LC 11)

Max Uplift 9=-338(LC 12), 2=-350(LC 12) Max Grav 9=2206(LC 37), 2=2096(LC 2)

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

TOP CHORD 2-4=-3655/615, 4-5=-4700/805, 5-6=-4700/805, 6-7=-3838/661, 7-8=-3565/600,

8-9=-2267/371

2-13=-524/3244, 11-13=-521/3217, 10-11=-511/3160 **BOT CHORD** 

4-13=-69/656, 4-11=-292/1729, 5-11=-576/100, 6-11=-292/1796, 7-10=-1770/313, **WEBS** 

8-10=-656/4051, 6-10=-104/700

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=338, 2=350
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 5-11-4 from the left end to 13-11-4 to connect truss(es) to front face of bottom chord.

Centifilled on bages where hanger is in contact with lumber.



OF MISS

SCOTT M.

SEVIER

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M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job	Truss	Truss Type	Qty	Ply	Summit/Stoney Creek #86	٦
					I41826332	
2387107	M1	Roof Special Girder	1	1		
					Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:18 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-cuGz?LNdcRP9vNa4Wi1pw1vHSPoAhnUArqX0lLz2Q1?

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 422 lb down and 74 lb up at 5-3-15, and 562 lb down and 128 lb up at 15-4-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

16) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-51, 4-6=-61, 6-7=-51, 7-8=-61, 9-14=-20

Concentrated Loads (lb)

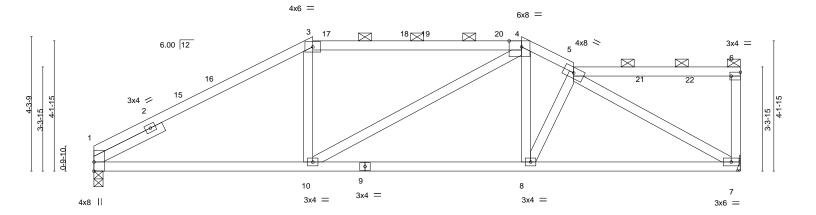
Vert: 13=-422(F) 23=-287(F) 24=-287(F) 25=-287(F) 26=-287(F) 27=-287(F) 28=-562(F)

### RELEASE FOR CONSTRUCTION



Job Truss Truss Type Summit/Stoney Creek #86 141826333 2387107 M2 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:25 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-vFBcTkS0ybH9FScQQgfSiViTVEDoq\_ZCSQku1Rz2Q0u 15-4-1 13-8-1 20-8-0 6-11-15 6-8-1 1-8-0 5-3-15

Scale = 1:36.8



	6-11-15	13-	·8-1	15-4-1	20-8-0	
	6-11-15	6-	3-1	1-8-0	5-3-15	<u> </u>
Plate Offsets (X,Y) [4:0-4-12	2,Edge], [6:Edge,0-1-8]					
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.84 BC 0.54 WB 0.84 Matrix-AS	Vert(CT) -0	in (loc) l/defl .08 8-10 >999 .15 8-10 >999 .04 7 n/a	L/d PLATES 240 MT20 180 n/a Weight: 8	<b>GRIP</b> 197/144 2 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SPF No.2

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

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

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

Max Horz 1=118(LC 15)

Max Uplift 1=-74(LC 16), 7=-76(LC 16) Max Grav 1=923(LC 2), 7=964(LC 40)

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

 $1-3=-1346/267,\ 3-4=-1146/282,\ 4-5=-1272/270$ TOP CHORD BOT CHORD 1-10=-297/1151, 8-10=-257/1142, 7-8=-272/1180 **WEBS** 3-10=0/265, 4-8=0/281, 5-7=-1311/276

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-11-15, Exterior(2R) 6-11-15 to 9-11-15, Interior(1) 9-11-15 to 13-8-1, Exterior(2E) 13-8-1 to 15-4-1, Interior(1) 15-4-1 to 20-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) 1, 7.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (2-10-13 max.): 3-4, 5-6.

Rigid ceiling directly applied.

RELEASE FOR CONSTRUCTION



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826334 2387107 МЗ Roof Special Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:27 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-rdJMuQUGUCXtUImoY5hwownp01uul0eVvjD?5Jz2Q0s 13-8-1 20-11-4 4-5-12 4-2-4 3-4-1 1-8-0 7-3-3

Scale = 1:38.8

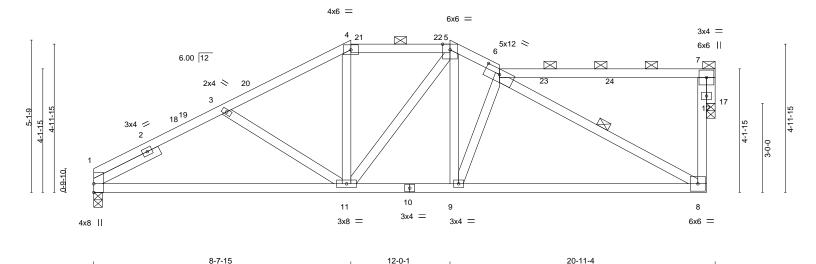


Plate Offsets (X,Y)--[6:0-6-0,0-2-1] LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/defl L/d **PLATES** GRIP 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.84 Vert(LL) -0.13 8-9 >999 240 MT20 197/144 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 ВС 0.57 Vert(CT) -0.27 8-9 >913 180 **TCDL** 10.0

Rep Stress Incr YES WB 0.36 Horz(CT) 0.08 17 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Weight: 92 lb FT = 20%Matrix-AS BCDL 10.0

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

8-11-3

2-0-0 oc purlins (5-8-9 max.): 4-5, 6-7.

Rigid ceiling directly applied.

1 Row at midpt

Structural wood sheathing directly applied, except end verticals, and

LUMBER-

TOP CHORD 2x4 SPF No.2

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

**OTHERS** 2x4 SPF No.2 SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 1=0-3-8, 17=0-3-8

Max Horz 1=121(LC 15)

Max Uplift 1=-71(LC 16), 17=-79(LC 16) Max Grav 1=948(LC 42), 17=921(LC 41)

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

TOP CHORD 1-3=-1383/282, 3-4=-1204/248, 4-5=-1023/249, 5-6=-1222/269, 8-12=-102/674,

7-12=-102/674

**BOT CHORD** 1-11=-366/1198, 9-11=-242/1014, 8-9=-284/1157

3-11=-305/115, 4-11=0/257, 5-9=-69/502, 6-9=-415/132, 6-8=-1174/266, 7-17=-999/190 **WEBS** 

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-7-15, Exterior(2R) 8-7-15 to 11-7-15, Interior(1) 11-7-15 to 12-0-1, Exterior(2E) 12-0-1 to 13-8-1, Interior(1) 13-8-1 to 20-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 17.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





D ON PLANS REVIES ADMINISTRATION MIT, MISSOURI MiTek 16023 Swingley Riage Ru Chesterfield, MO 63017

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design Valid for use only with release controlled in the controlle Job Truss Truss Type Qty Summit/Stoney Creek #86 141826335 2387107 M4 Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:29 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-n0R7I5VX0qobj3wBfWkOtLsEprbxmrSoM1i6ACz2Q0q

5-0-4

12-6-11

2-2-11

16-7-4

4-0-8

Scale = 1:39.7

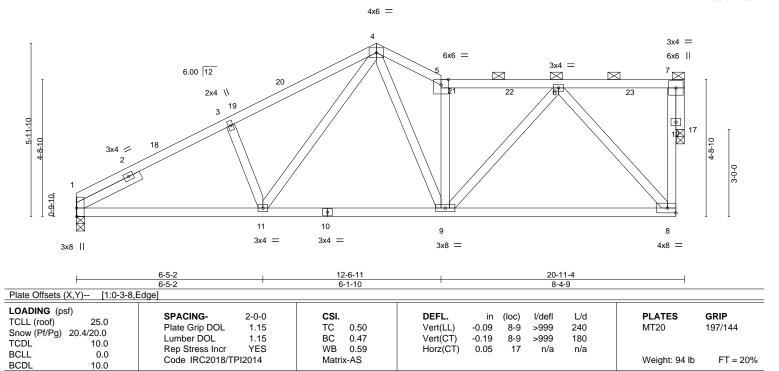
20-11-4

4-4-0

Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied



**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SPF No.2

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

**OTHERS** 2x4 SPF No.2 SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 1=0-3-8, 17=0-3-4

Max Horz 1=133(LC 15)

Max Uplift 1=-67(LC 16), 17=-82(LC 16) Max Grav 1=936(LC 2), 17=909(LC 2)

5-3-12

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

TOP CHORD  $1-3=-1395/246,\ 3-4=-1320/288,\ 4-5=-1236/265,\ 5-6=-1056/205,\ 8-12=-142/808,$ 

7-12=-142/808

**BOT CHORD** 1-11=-343/1202, 9-11=-229/874, 8-9=-190/723

3-11=-285/148, 4-11=-109/451, 4-9=-74/589, 5-9=-708/176, 6-9=-72/500, 6-8=-973/225, **WEBS** 

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-4-0, Exterior(2E) 10-4-0 to 12-6-11, Interior(1) 12-6-11 to 20-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  $\,$
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 17.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



RELEASE FOR CONSTRUCTION

D ON PLANS REVIE B ADMINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge RO Chesterfield, MO 63017

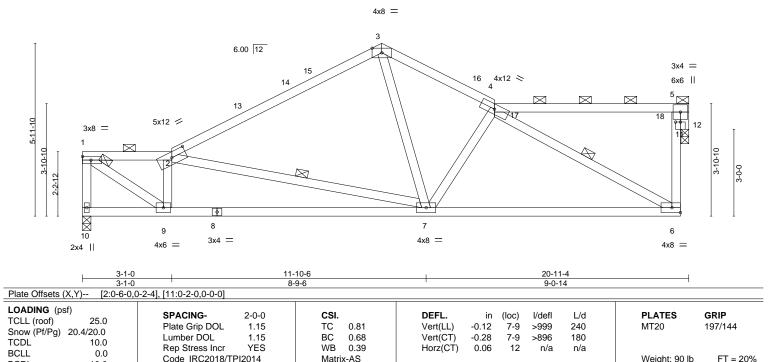
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design Valid for use only with release controlled in the controlle Job Truss Truss Type Qty Summit/Stoney Creek #86 141826336 2387107 M5 Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:30 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-GC?VWRW9n7wSLDVNDDFdPZPKIFutVLuxbhRfiez2Q0p 14-2-11 20-11-4

3-10-11

7-3-0

Scale = 1:39.8



LUMBER-

BCDL

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

**WEBS** 2x4 SPF No.2 2x4 SPF No.2 **OTHERS** 

**BRACING-**

TOP CHORD

Structural wood sheathing directly applied, except end verticals, and

6-8-9

2-0-0 oc purlins (4-6-11 max.): 1-2, 4-5.

**BOT CHORD** Rigid ceiling directly applied. **WEBS** 1 Row at midpt

REACTIONS. (size) 10=0-3-8, 12=0-3-4

10.0

Max Horz 10=140(LC 15)

Max Uplift 10=-72(LC 16), 12=-77(LC 16) Max Grav 10=929(LC 2), 12=903(LC 2)

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

TOP CHORD 1-10=-929/154, 1-2=-1296/213, 2-3=-1146/216, 3-4=-1209/245, 6-11=-96/684,

5-11=-96/684

**BOT CHORD** 7-9=-344/1353, 6-7=-265/1175

**WEBS** 1-9=-250/1589, 2-9=-768/212, 2-7=-515/142, 3-7=-54/573, 4-7=-351/131,

4-6=-1199/248, 5-12=-1028/190

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-0, Interior(1) 3-1-0 to 10-4-0, Exterior(2R) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 20-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 12.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



RELEASE FOR CONSTRUCTION



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



5-6-11

5-7-0

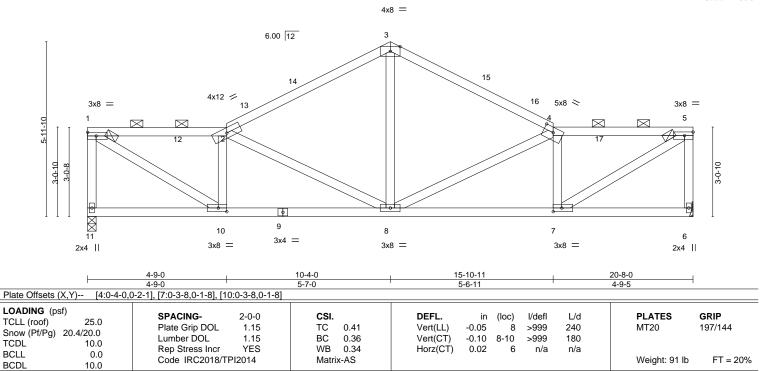
Scale = 1:39.3

4-9-5

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (5-1-8 max.): 1-2, 4-5.

Rigid ceiling directly applied



**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

**WEBS** 

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

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

(size) 11=0-3-8, 6=Mechanical Max Horz 11=144(LC 15)

Max Uplift 11=-74(LC 16), 6=-74(LC 16) Max Grav 11=917(LC 2), 6=917(LC 2)

4-9-0

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

TOP CHORD 1-11=-870/184, 1-2=-1183/229, 2-3=-1140/225, 3-4=-1140/225, 4-5=-1182/230,

5-6=-869/184

BOT CHORD 8-10=-297/1215. 7-8=-254/1213

**WEBS** 1-10=-248/1366, 2-10=-623/181, 2-8=-431/122, 3-8=-41/479, 4-8=-430/122,

4-7=-621/181, 5-7=-248/1364

### NOTES-

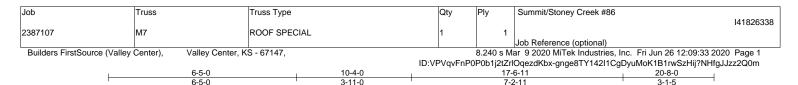
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 10-4-0, Exterior(2R) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 20-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) 11, 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



RELEASE FOR CONSTRUCTION

D ON PLANS REVIE IMIT, MISSOURI MiTek 16023 Swingley Ridge RO Chesterfield, MO 63017

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Scale = 1:39.3 4x8 = 6.00 12 15 4x12 // 4x8 =  $\boxtimes$ 4x12 > 2x4 || 3-10-8 2-2-10 2-2-10 T o 10 9 7 8 6 3x4 =3x4 =5x8 = 3x4 II 3x6 =6-11-12 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL (roof) 25.0 Plate Grip DOL Vert(LL) 240 197/144 1.15 TC 0.81 -0.06 6-7 >999 MT20 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 ВС 0.44 Vert(CT) -0.13 6-7 >999 180 TCDI 10.0 Rep Stress Incr YES WB 0.37 Horz(CT) 0.03 6 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-AS Weight: 90 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

**WEBS** 2x4 SPF No.2

REACTIONS. 10=0-3-8, 6=Mechanical (size) Max Horz 10=-159(LC 14)

Max Uplift 10=-76(LC 16), 6=-73(LC 16)

Max Grav 10=917(LC 2), 6=917(LC 2)

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

1-10=-852/200, 1-2=-1169/245, 2-3=-1328/315, 3-4=-1308/232 TOP CHORD

**BOT CHORD** 7-8=-160/897, 6-7=-282/1280

WEBS 1-8=-248/1268, 2-8=-912/249, 3-8=-111/565, 3-7=-16/351, 4-7=-305/171,

4-6=-1520/336

### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 10-4-0, Exterior(2R) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 20-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) 10, 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

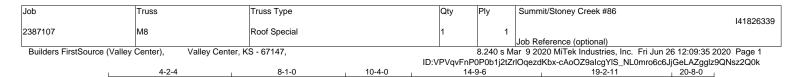
2-0-0 oc purlins (4-2-6 max.): 1-2, 4-5.

Rigid ceiling directly applied.

RELEASE FOR CONSTRUCTION



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



4-5-6

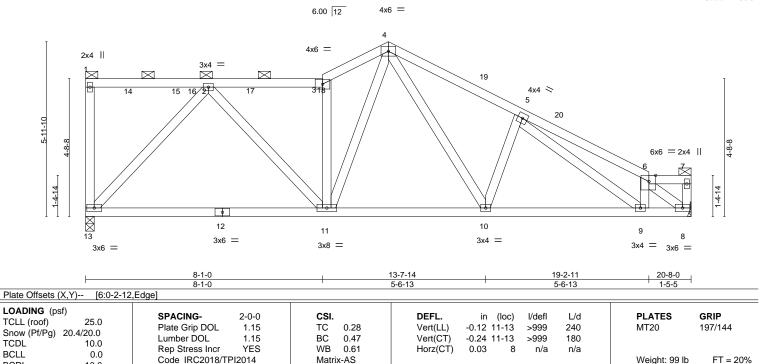
4-5-6

2-3-0

3-10-12

Scale = 1:39.3

1-5-5



**BRACING-**

TOP CHORD

**BOT CHORD** 

Matrix-AS

LUMBER-

REACTIONS.

BCDL

TOP CHORD 2x4 SPF No.2

10.0

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

(size) 13=0-3-8, 8=Mechanical

Max Horz 13=-174(LC 14) Max Uplift 13=-77(LC 16), 8=-72(LC 16) Max Grav 13=917(LC 2), 8=932(LC 41)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1031/232, 3-4=-1165/286, 4-5=-1310/294, 5-6=-1286/221

BOT CHORD 11-13=-108/681, 10-11=-105/839, 9-10=-197/1204, 8-9=-174/1058 WFBS

2-13=-971/243, 2-11=-82/601, 3-11=-686/192, 4-11=-96/539, 4-10=-114/493,

5-10=-344/145, 6-8=-1377/209

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 10-4-0, Exterior(2R) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 20-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) 13, 8.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Weight: 99 lb

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (5-7-9 max.): 1-3, 6-7.

Rigid ceiling directly applied

RELEASE FOR CONSTRUCTION



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Summit/Stoney Creek #86 141826340 2387107 M9 Hip Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:37 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-YYw8\_qbY7HoShlXj7BtGB1Cel3l7eakzCHeXSkz2Q0i

10-10-5

1-0-10

4-9-2

15-7-6

4-9-2

Scale = 1:37.2

21-7-0

20-8-0

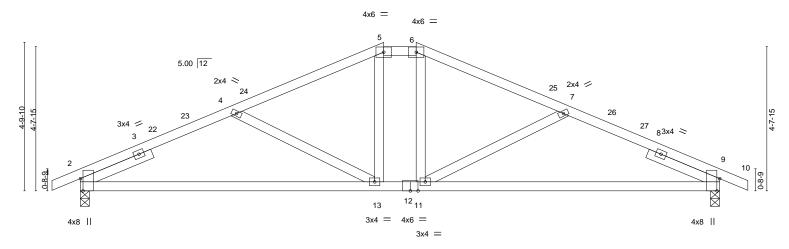
5-0-10

20-8-0

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-11-11 max.): 5-6.

Rigid ceiling directly applied.



	9-9-11	1-0-10	)	9-9-11		
Plate Offsets (X,Y) [2:0-4-12	2,Edge], [9:0-4-12,Edge]					
LOADING (psf)   TCLL (roof)   25.0   Snow (Pf/Pg)   20.4/20.0   TCDL   10.0   BCLL   0.0   BCDL   10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.34 BC 0.64 WB 0.19 Matrix-AS	<b>DEFL.</b> in (loc Vert(LL) -0.13 11-20 Vert(CT) -0.28 11-20 Horz(CT) 0.05	) >999 240	PLATES MT20 Weight: 78 lb	<b>GRIP</b> 197/144 FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

10-10-5

LUMBER-

TOP CHORD 2x4 SPF No.2

0-11-0

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

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

5-0-10

REACTIONS. (size) 2=0-3-8, 9=0-3-8

Max Horz 2=-72(LC 14)

Max Uplift 2=-103(LC 16), 9=-103(LC 16) Max Grav 2=1126(LC 39), 9=1126(LC 39)

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

 $2\text{-}4\text{--}1752/256,\ 4\text{-}5\text{--}1410/207,\ 5\text{-}6\text{--}1228/211,\ 6\text{-}7\text{--}1410/207,\ 7\text{-}9\text{--}1752/256}$ TOP CHORD **BOT CHORD** 

9-9-11

2-13=-174/1580, 11-13=-71/1228, 9-11=-180/1580

**WEBS** 4-13=-385/123, 5-13=-11/272, 6-11=-11/272, 7-11=-385/122

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed: MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 9-9-11, Exterior(2E) 9-9-11 to 10-10-5, Exterior(2R) 10-10-5 to 15-1-3, Interior(1) 15-1-3 to 21-7-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=103. 9=103.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



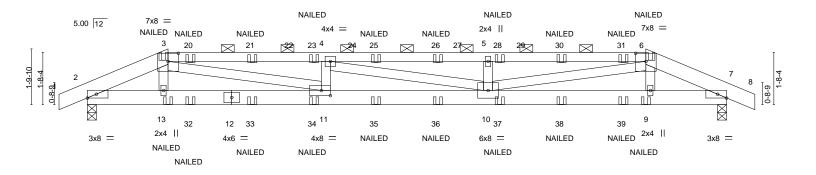
RELEASE FOR CONSTRUCTION



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Summit/Stoney Creek #86 141826341 2387107 M10 Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:20 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-YHOjQ0Ot83ft8gkSe73H?S?ahDOh9paTl807LDz2Q0z 21-7-0 18-0-11 20-8-0 5-2-15 5-1-3 2-7-5

Scale = 1:37.2



2-7-5 2-7-5	7-8-8 5-1-3		12-11-8 5-2-15			20-8-0	$\dashv$
Plate Offsets (X,Y) [3:0-4-0	,0-3-3], [6:0-4-0,0-3-3], [11:0-3-8,0-2-0]						
TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         NO	CSI. TC 0.97 BC 0.99 WB 0.51	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/defl -0.30 10-11 >822 -0.50 10-11 >495 0.04 7 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS				Weight: 90 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

**WEBS** 

TOP CHORD 2x6 SPF No.2 \*Except\*

3-6: 2x4 SPF No.2 BOT CHORD 2x6 SPF No.2

2x4 SPF No.2 (size) 2=0-3-8, 7=0-3-8

Max Horz 2=24(LC 11) Max Uplift 2=-108(LC 12), 7=-108(LC 12) Max Grav 2=988(LC 2), 7=988(LC 2)

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

TOP CHORD 2-3=-1983/154, 3-4=-3810/307, 4-5=-3759/302, 5-6=-3759/302, 6-7=-1998/156 BOT CHORD 2-13=-105/1815, 11-13=-109/1813, 10-11=-261/3810, 9-10=-111/1824, 7-9=-106/1829

WEBS 3-11=-157/2063, 4-11=-438/87, 5-10=-442/89, 6-10=-150/1998

### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=108, 7=108.
- 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.
- 11) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

SCOTT M.
SEVIER

NUMBER

PE-2001018807

Structural wood sheathing directly applied or 5-1-0 oc purlins, except

2-0-0 oc purlins (2-1-0 max.): 3-6.

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

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CONSTRUCTION

IMIT, MISSOURI

MITEK 16023 Swingley Klage Ro Chesterfield, MO 63017

Continued on page 2

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job	Truss	Truss Type	Qty	Ply	Summit/Stoney Creek #86	٦
0007407	M40	His Circles			I41826341	
2387107	M10	Hip Girder	1	1	I-b D-f(tiI)	
					Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:21 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-0Ty5dMPWvMnkmqJeBqbWYfXlQckwuGqcXomhugz2Q0y

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-51, 3-6=-61, 6-8=-51, 14-17=-20

Concentrated Loads (lb)

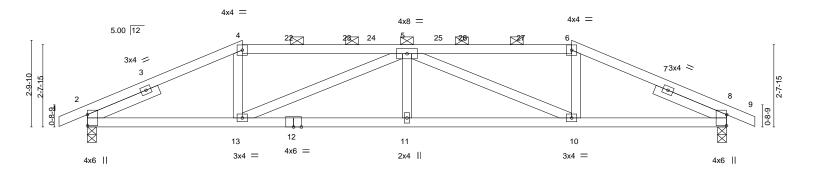
Vert: 13=0(B) 9=0(B) 32=0(B) 33=0(B) 34=0(B) 35=0(B) 36=0(B) 37=0(B) 38=0(B) 39=0(B)

### **RELEASE FOR CONSTRUCTION**

NOTED ON PLANS REVIE CONTRACTION DE STANMIT, MISSOURI MiTek 16023 Swingley Riage Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826342 2387107 M11 Hip Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:22 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-VgWTqiQ8ggvbO\_trlY6l5t42m092diamlSVEQ6z2Q0x 21-7-0 0-11-0 15-7-14 5-3-14 5-3-14 5-0-2

Scale = 1:37.2



5-0-2 5-0-2	<u> </u>	10-4-0 5-3-14	15-7-14 5-3-14	20-8-0 5-0-2					
Plate Offsets (X,Y) [2:Edge,0-0-0], [8:Edge,0-0-0]									
ICLL (root) 25.0 F Snow (Pf/Pg) 20.4/20.0 F TCDL 10.0 F	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.49 BC 0.68 WB 0.54 Matrix-AS	Vert(LL) -0.12 11 >9 Vert(CT) -0.22 11-13 >9	defl L/d PLATE 999 240 MT20 999 180 n/a n/a Weight	197/144				

**BRACING-**

TOP CHORD

**BOT CHORD** 

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-5-8 max.): 4-6.

Rigid ceiling directly applied.

LUMBER-

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

**WEBS** 2x4 SPF No.2

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

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

Max Horz 2=-39(LC 14)

Max Uplift 2=-103(LC 16), 8=-103(LC 16) Max Grav 2=994(LC 2), 8=994(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-4=-1615/245, 4-5=-1442/244, 5-6=-1442/244, 6-8=-1615/245 TOP CHORD 2-13=-158/1460, 11-13=-241/2185, 10-11=-241/2185, 8-10=-161/1460 BOT CHORD

**WEBS** 4-13=0/391, 5-13=-884/89, 5-10=-884/89, 6-10=0/391

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-0-2, Exterior(2R) 5-0-2 to 9-3-0 , Interior(1) 9-3-0 to 15-7-14, Exterior(2R) 15-7-14 to 20-1-15, Interior(1) 20-1-15 to 21-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=103 8=103
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



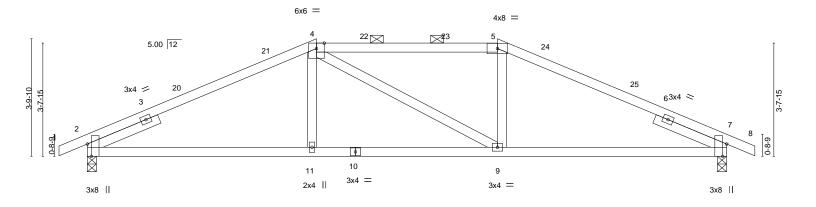
RELEASE FOR CONSTRUCTION



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Summit/Stoney Creek #86 141826343 2387107 M12 Hip Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:24 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-R2dEFOROBH9Jdl1Dtz8DAl9LYquO5i12Dm\_LU?z2Q0v 21-7-0 0-11-0 7-4-14 5-10-3

Scale = 1:37.2



	7-4-14	13-3-2		1		20-8-0			
	7-4-14	5-10-3		ı		7-4-14			
Plate Offsets (X,Y) [2:0-4-12,Edge], [7:0-4-12,Edge]									
LOADING (psf)   TCLL (roof)   25.0   Snow (Pf/Pg)   20.4/20.0   TCDL   10.0   BCLL   0.0   BCDL   10.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES           Code IRC2018/TPI2014	CSI. TC 0.66 BC 0.49 WB 0.16 Matrix-AS	Vert(CT) -	in (loc) 0.09 9-11 0.14 9-11 0.04 7	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 72 lb	<b>GRIP</b> 197/144 FT = 20%	

**BRACING-**

TOP CHORD

**BOT CHORD** 

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-1-0 max.): 4-5.

Rigid ceiling directly applied.

LUMBER-

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

**WEBS** 2x4 SPF No.2

**SLIDER** Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

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

Max Horz 2=56(LC 15)

Max Uplift 2=-103(LC 16), 7=-103(LC 16) Max Grav 2=994(LC 2), 7=994(LC 2)

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

2-4=-1489/252, 4-5=-1344/270, 5-7=-1489/252 TOP CHORD BOT CHORD 2-11=-150/1350, 9-11=-152/1344, 7-9=-156/1350

**WEBS** 4-11=0/255, 5-9=0/255

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed: MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 7-4-14, Exterior(2R) 7-4-14 to 11-7-13, Interior(1) 11-7-13 to 13-3-2, Exterior(2R) 13-3-2 to 17-6-0, Interior(1) 17-6-0 to 21-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=103 7=103
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



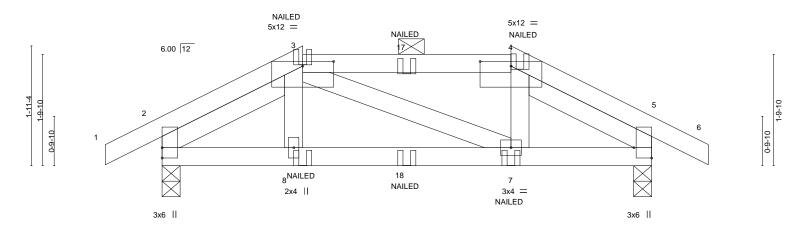
RELEASE FOR CONSTRUCTION

D ON PLANS REVIE B ADMINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Riage Ru Chesterfield, MO 63017

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826344 P1 2387107 Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:38 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-1IUXBAcAubwJJR6whvOVkFkp?TjuN3U6RxN4\_Bz2Q0h 8-10-0 2-3-5 2-3-5 0-11-0 3-4-7 2-3-5 0-11-0

Scale = 1:18.6



	2-3-5	3-4-7	2-3-5	<u> </u>
Plate Offsets (X,Y) [3:0-6-0,0	0-0-15], [4:0-6-0,0-0-15], [5:Edge,0-3-7]			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI.         DEFL.           TC 0.34         Vert(L           BC 0.22         Vert(C           WB 0.03         Horz(C           Matrix-MP         Horz(C	L) -0.01 7-8 >999 240 T) -0.02 7-8 >999 180	PLATES         GRIP           MT20         197/144           Weight: 34 lb         FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

5-7-11

7-11-0

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

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

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

LUMBER-

TOP CHORD 2x4 SPF No.2

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

SLIDER Left 2x4 SPF No.2 2-3-9, Right 2x4 SPF No.2 2-3-9

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

Max Horz 2=28(LC 60)

Max Uplift 2=-61(LC 12), 5=-61(LC 12) Max Grav 2=458(LC 36), 5=457(LC 36)

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

2-3-5

TOP CHORD 3-4=-411/46, 4-5=-480/40

BOT CHORD 2-8=-9/386, 7-8=-12/381, 5-7=-12/404

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
- 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.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-3=-51, 3-4=-61, 4-6=-51, 9-13=-20

## SCOTT M. SEVIER PE-2001018807 PE-2001018807

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CONSTRUCTION

LETT MINISTRATION

LETT MINISTRATION

MITEK 16023 Swingley Ridge R Chesterfield, MO 63017

Continued on page 2

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job	Truss	Truss Type	Qty	Ply	Summit/Stoney Creek #86
2207407	D4	Llin Circles	4		141826344
2387107		Hip Girder	1	1	Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:39 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-Vx1vPWdofu2Awbh6FcvkHSH\_lt376WkGgb7eWdz2Q0g

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 8=-4(F) 3=-20(F) 7=-4(F) 4=-19(F) 17=-23(F) 18=-9(F)

### **RELEASE FOR CONSTRUCTION** NOTED ON PLANS REVIECO ATTACHMENT ON LEVEL OF THE PROPERTY OF

MiTek\* 16023 Swingley Rigge Ru Chesterfield, MO 63017

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826345 2387107 P2 Common Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:40 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID: VPVqvFnP0P0b1j2tZrlOqezdKbx-z7bHcseQQCA1YIFlpKQzpgqCKHQjrzuPuFsB33z2Q0faces and the property of the prop

3-11-8

7-11-0

3-11-8

7-11-0

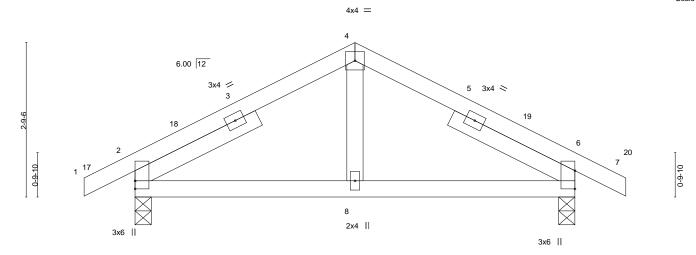
Structural wood sheathing directly applied.

Rigid ceiling directly applied.

Scale = 1:20.7

8-10-0

0-11-0



	3-11-8			1-8		1	
CADING (psf)   TCLL (roof)   25.0   Snow (Pf/Pg)   15.4/20.0   TCDL   10.0   BCLL   0.0   BCDL   10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.16 BC 0.13 WB 0.04 Matrix-AS	DEFL.         in           Vert(LL)         -0.01           Vert(CT)         -0.01           Horz(CT)         0.01	(loc) I/defl 8-15 >999 8-15 >999 2 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 30 lb	<b>GRIP</b> 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

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

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

0-11-0

REACTIONS.

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=-46(LC 14)

Max Uplift 2=-57(LC 16), 6=-57(LC 16) Max Grav 2=420(LC 2), 6=420(LC 2)

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

2-4=-324/185, 4-6=-324/185 TOP CHORD **BOT CHORD** 2-8=-60/290, 6-8=-60/290

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 3-11-8, Exterior(2R) 3-11-8 to 6-11-8, Interior(1) 6-11-8 to 8-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



RELEASE FOR CONSTRUCTION



M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Job Truss Truss Type Summit/Stoney Creek #86 141826346 V1 Valley 2387107 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:41 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-RK9fqCe2BWluAvqUM1yCMtMMWgnAaQJZ7vckbVz2Q0e 3-11-8 3-11-8 Scale = 1:18.3 4x4 = 2 6.00 12 10 3x6 || 3x6 II 2x4 || 7-11-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP I/defl TCLL (roof) 25.0 Plate Grip DOL 0.20 Vert(LL) 197/144 1.15 TC n/a n/a 999 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.12 Vert(CT) 999 n/a n/a TCDI 10.0 Rep Stress Incr YES WB 0.02 Horz(CT) 0.00 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-R Weight: 22 lb FT = 20%

LUMBER-

BCDL

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

10.0

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

BRACING-

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

except end verticals.

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

REACTIONS.

(size) 6=7-11-0, 4=7-11-0, 5=7-11-0

Max Horz 6=-51(LC 14)

Max Uplift 6=-39(LC 16), 4=-39(LC 16)

Max Grav 6=217(LC 20), 4=217(LC 21), 5=253(LC 2)

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

### NOTES-

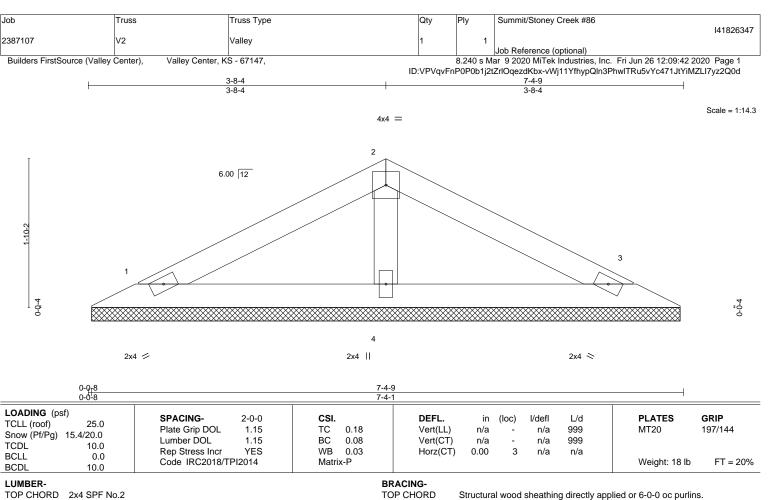
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-11-8, Exterior(2R) 3-11-8 to 6-11-8, Interior(1) 6-11-8 to 7-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RELEASE FOR CONSTRUCTION



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



BOT CHORD

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

TOP CHORD

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

**OTHERS** 2x4 SPF No.2

REACTIONS.

1=7-3-9, 3=7-3-9, 4=7-3-9 (size)

Max Horz 1=29(LC 15)

Max Uplift 1=-21(LC 16), 3=-21(LC 16), 4=-3(LC 16) Max Grav 1=143(LC 20), 3=143(LC 21), 4=270(LC 2)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RELEASE FOR CONSTRUCTION

MINISTRATION MIT, MISSOURI MiTek 16023 Swingley Ridge Ro Chesterfield, MO 63017

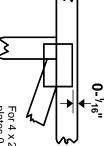
M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

### Symbols

# PLATE LOCATION AND ORIENTATION



offsets are indicated. Center plate on joint unless x, y and fully embed teeth Apply plates to both sides of truss Dimensions are in ft-in-sixteenths



plates 0- 1/16" from outside For 4 x 2 orientation, locate edge of truss.

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

\* Plate location details available in MiTek 20/20 software or upon request.

### PLATE SIZE



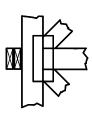
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

## LATERAL BRACING LOCATION



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

### **BEARING**



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

### Industry Standards:

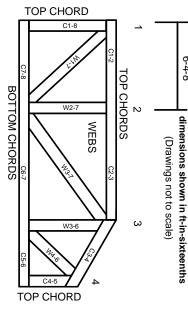
National Design Specification for Metal

**Building Component Safety Information** Guide to Good Practice for Handling Design Standard for Bracing. Connected Wood Trusses. Installing & Bracing of Metal Plate Plate Connected Wood Truss Construction.

DSB-89: ANSI/TPI1:

# Numbering System

6-4-8



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

### PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

established by others. section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

- Failure to Follow Could Cause Property Reviews Reviews Damage or Personal Injury

  1. Additional stability bracing for truss system, e.g., diagonal or X-bracing, is always required. See BCSI.

  2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves Summit, Source Summit Summit Property Required See BCSI.

  2. Truss bracing, individual lateral braces themselves Summit Summit Property Required See BCSI.

  3. NOTED ON PLANS REVIEWS FOR CODES ADMINISTRATION PLANS REVIEWS SUMMIT, MISSOURCE SUMMIT, MI

08/03/2020

- bracing should be considered
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building
- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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7.

Unless expressly noted, this design is not applicable for

use with fire retardant, preservative treated, or green lumber.

- 10. Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design
- Bottom chords require lateral bracing at 10 ft. spacing. or less, if no ceiling is installed, unless otherwise noted
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.