



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

Re: 2955860

SUMMIT/STONEY CREEK #110/MO

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: I48256862 thru I48256934

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

Missouri COA: Engineering 001193



October 8,2021

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.

SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVEGES2

LEF'S SUMMIT, MISSOURI

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

3-2-10

Truss Type

Hip Girder

4-8-3

Truss

Α1

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-6p5x6r57zX0SiFZ7bB2RIIMX(E65

24-10-13

4-8-3

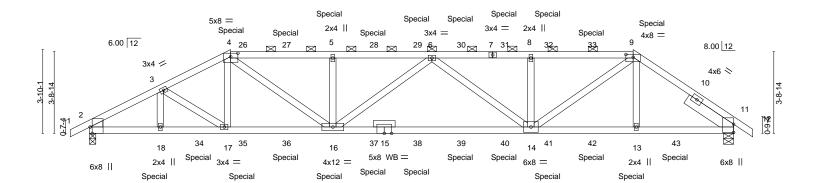
Structural wood sheathing directly applied or 2-9-2 oc purlins, except

2-0-0 oc purlins (2-7-5 max.): 4-9.

Rigid ceiling directly applied or 5-9-7 oc bracing

Thu Oct 7 11/06: bB2RIIMX(E)51/24 09/2021-8298

Scale = 1:52.8



4-6-7

Qty

20-2-10

4-6-7

		2-15	6-5-9		1-12	15-8-3		20-2-10		24-10-13	29-6	
		2-15	3-2-10		-8-3	4-6-7	<u> </u>	4-6-7		4-8-3	4-7-	3
Plate Offsets	s (X,Y)	[2:0-3-8,E	dge], [4:0-4-0,0-	1-15], [9:0-4-0),0-1-9], [11:0	0-4-9,0-0-1]						
LOADING (psf)	SP	ACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL 2	25.0	Pla	te Grip DOL	1.15	TC	0.78	Vert(LL)	0.34 14-16	>999	240	MT20	197/144
TCDL 1	10.0	Lur	nber DOL	1.15	BC	0.91	Vert(CT)	-0.59 14-16	>598	180		
BCLL	0.0	Re	Stress Incr	NO	WB	0.44	Horz(CT)	0.12 11	n/a	n/a		
BCDL 1	10.0	Co	de IRC2018/TP	2014	Matrix	-MS					Weight: 123 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Job

2955860

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF 1650F 1.5E WEBS 2x4 SPF No.2

OTHERS 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

SLIDER Right 2x6 SPF No.2 2-6-0

REACTIONS. 2=0-3-8, 11=0-5-8 (size)

Max Horz 2=89(LC 28)

Max Uplift 2=-657(LC 8), 11=-698(LC 9) Max Grav 2=1797(LC 1), 11=1773(LC 1)

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

2-3=-2982/1151, 3-4=-2867/1187, 4-5=-3526/1507, 5-6=-3525/1506, 6-8=-3235/1396, TOP CHORD

8-9=-3236/1397, 9-11=-2378/1019

BOT CHORD 2-18=-1013/2580, 17-18=-1013/2580, 16-17=-1037/2554, 14-16=-1569/3621, 13-14=-763/1918, 11-13=-763/1921

WEBS 4-16=-591/1270, 5-16=-437/272, 8-14=-450/280, 9-14=-750/1679, 6-14=-503/278

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=657, 11=698.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 92 lb down and 88 lb up at 7-0-0, 92 lb down and 88 lb up at 9-0-0, 92 lb down and 88 lb up at 11-0-0, 92 lb down and 88 lb up at 13-0-0, 92 lb down and 85 lb up at 15-0-0, 92 lb down and 88 lb up at 17-0-0, 92 lb down and 88 lb up at 19-0-0, 92 lb down and 88 lb up at 21-0-0, and 92 lb down and 88 lb up at 23-0-0, and 92 lb down and 90 lb up at 24-10-13 on top chord, and 132 lb down and 70 lb up at 3-0-0, 85 lb down and 60 lb up at 5-0-0, 33 lb down and 22 lb up at 7-0-0, 33 lb down and 22 lb up at 9-0-0, 33 lb down and 22 lb up at 11-0-0, 33 lb down and 22 lb up at 13-0-0, 33 lb down and 22 lb up at 15-0-0, 33 lb down and 22 lb up at 17-0-0, 33 lb down and 22 lb up at 19-0-0, 33 lb down and 22 lb up at 21-0-0, 33 lb down and 22 lb up at 23-0-0, and 33 lb down and 22 lb up at 24-10-1, and 116 lb down and 93 lb up at 26-10-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

(B) httrtbed_GARAGESE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)



October 8,2021

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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION Truss Truss Type Qty SUMMIT/STONEY CREEK 110/MO AS NOTED FOR PLAN REVIEW

Job Hip Girder 2955860 Α1 Builders FirstSource (Valley Center),

DEVELOPMENT SERVEGES2 LEE'S SUMMIT. MISSOURI

| Job Reference (optional) | LEE'S SUMMIT, MISSOURI | 8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Oct 7/11/06/09/2071 | Page 2 | ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-6p5x6r57zX0SiHZ7bB2RIMX(E6 22 Juvzykid X v log 2 | 10.500 km² | 10.500 km²

Valley Center, KS - 67147,

LOAD CASE(S) Standard

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

Vert: 1-4=-70, 4-9=-70, 9-12=-70, 19-22=-20

Concentrated Loads (lb)

Vert: 18=-132(B) 16=-18(B) 5=-28(B) 9=-28(B) 13=-18(B) 26=-28(B) 27=-28(B) 28=-28(B) 29=-28(B) 30=-28(B) 31=-28(B) 32=-28(B) 33=-28(B) 34=-85(B)

35=-18(B) 36=-18(B) 37=-18(B) 38=-18(B) 39=-18(B) 40=-18(B) 41=-18(B) 42=-18(B) 43=-116(B)

SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPESS

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc.

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

22-4-13

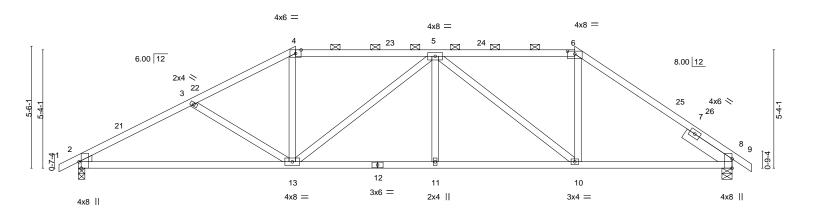
6-3-10

LEE'S SUMMIT, MISSOURI

Thu Oct 7 11 06 28 202 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-2Tk75LJ2VNPmUAWmDguulleriug

28/2021 Rage

Scale = 1:52.0



6-3-10

Qty

		3-3-3			10-1-0	'		Z- T -10		23-0-0	
	1	9-9-9		1	6-3-10)		6-3-10		7-1-3	1
Plate Offs	sets (X,Y)	[2:0-3-8,Edge], [6:0-4-0,0)-1-9], [8:0-5-1	,Edge]							
LOADING	(nsf)	SPACING-	2-0-0	CSI.		DEFL.	in (lo	oc) I/def	l L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.15 13-	.,		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.31 13-	16 >999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.09	8 n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-AS					Weight: 118 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Job

2955860

Truss

A2

4-10-15

Builders FirstSource (Valley Center),

-0-10-8 0-10-8

Truss Type

Hip

Valley Center, KS - 67147,

4-10-10

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

WEBS WEDGE

Left: 2x4 SPF No.2

SLIDER Right 2x6 SPF No.2 2-6-0

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

Max Horz 2=130(LC 11)

Max Uplift 2=-202(LC 12), 8=-180(LC 13)

Max Grav 2=1389(LC 1), 8=1389(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD $2\text{-}3\text{--}2272/345,\ 3\text{-}4\text{--}2000/293,\ 4\text{-}5\text{--}1733/296,\ 5\text{-}6\text{--}1424/258,\ 6\text{-}8\text{--}1817/248}$

BOT CHORD 2-13=-311/1955, 11-13=-227/1981, 10-11=-227/1981, 8-10=-92/1438 WEBS 4-13=-22/481, 5-13=-451/126, 5-10=-813/196, 6-10=-41/596, 3-13=-257/142

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -010-8 to 2-1-8, Interior(1) 2-1-8 to 9-9-9, Exterior(2R) 9-9-9 to 14-0-8, Interior(1) 14-0-8 to 22-4-13, Exterior(2R) 22-4-13 to 26-7-12, Interior(1) 26-7-12 to 30-4-8 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVESS4

LEE'S SUMMIT, MISSOURI

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc.

4-7-13

Structural wood sheathing directly applied, except

2-0-0 oc purlins (3-6-8 max.): 4-5.

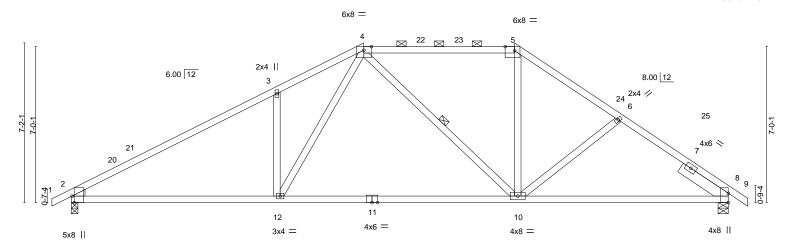
Rigid ceiling directly applied.

1 Row at midpt

ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-xE_dxjMYZcvCznpY\$WzqBbp\\$m\8ss.(mtG_0Qxzy 29-6-0

Thu Oct 711100 32,2021

Scale = 1:51.7



Qty

19-10-13

6-9-4

		6-6-15	9-2-12	13-1-9	19-10-13	1	29-6-0	
	ı	6-6-15	2-7-13	3-10-13	6-9-4	I	9-7-3	l l
Plate Offset	ts (X,Y)	[2:0-3-8,Edge], [4:0-4-2,Edge]	dge], [5:0-5-1,I	Edge], [8:0-5-1,Edge]				
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES	GRIP
TCLL :	25.0	Plate Grip DOL	1.15	TC 0.88	Vert(LL) -0.26 10-12 >	>999 240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.82	Vert(CT) -0.55 10-12 >	-648 180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.24	Horz(CT) 0.07 8	n/a n/a		
BCDL	10.0	Code IRC2018/TP	I2014	Matrix-AS			Weight: 118 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

Job

2955860

Truss

6-6-15

АЗ

Builders FirstSource (Valley Center),

-0-10-8 0-10-8

Truss Type

3-10-13

Hip

9-2-12

Valley Center, KS - 67147,

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

WEDGE

Left: 2x4 SPF No.2

SLIDER Right 2x6 SPF No.2 2-6-0

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

Max Horz 2=172(LC 11)

Max Uplift 2=-173(LC 12), 8=-138(LC 13) Max Grav 2=1389(LC 1), 8=1389(LC 1)

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

TOP CHORD $2\text{-}3\text{--}2163/272, 3\text{-}4\text{--}2088/373, 4\text{-}5\text{--}1315/259, 5\text{-}6\text{--}1649/259, 6\text{-}8\text{--}1816/263}$

BOT CHORD 2-12=-196/1813, 10-12=-102/1430, 8-10=-138/1448 WEBS 4-10=-282/124, 5-10=-21/462, 3-12=-448/260, 4-12=-221/778

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-1-9, Exterior(2R) 13-1-9 to 17-4-8, Interior(1) 17-4-8 to 19-10-13, Exterior(2R) 19-10-13 to 24-1-12, Interior(1) 24-1-12 to 30-4-8 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=173, 8=138
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVEGES5

LEE'S SUMMIT, MISSOURI

Job Reference (optional)

Structural wood sheathing directly applied, except

3-12, 7-12

2-0-0 oc purlins (4-8-10 max.): 5-6.

Rigid ceiling directly applied.

1 Row at midpt

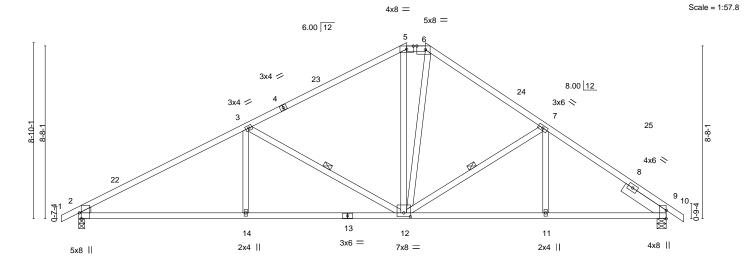
33,2021 Thu Oct 71110

8.430 s Aug 16 2021 MiTek Industries, Inc.

ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-PQY083NBKv12bxOl?DU3koLhkvKx 17-4-13 0-11-4 5-5-12 5-10-13

Qty

29-6-0



	8-2-15 8-2-15	16-5-9 8-2-10	17-4-13 23-3-11 0-11-4 5-10-13		
Plate Offsets (X,Y)	[2:0-3-8,Edge], [5:0-4-0,0-1-15], [6:0-5-			0-2-0	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	TC 0.61 \\BC 0.58 \\	DEFL. in (loc) l/def /ert(LL) -0.09 12-14 >999 /ert(CT) -0.21 12-14 >999 dorz(CT) 0.08 9 n/e	9 240 MT20 197/144 9 180	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

Job

2955860

Truss

A4

Builders FirstSource (Valley Center),

Truss Type

2-8-14

Hip

2-8-14

Valley Center, KS - 67147,

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

Left: 2x4 SPF No.2

SLIDER Right 2x6 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 9=0-5-8

Max Horz 2=214(LC 11)

Max Uplift 2=-192(LC 12), 9=-156(LC 13) Max Grav 2=1389(LC 1), 9=1389(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2215/293, 3-5=-1457/251, 5-6=-1181/261, 6-7=-1446/252, 7-9=-1833/237 **BOT CHORD** 2-14=-291/1878, 12-14=-291/1878, 11-12=-105/1457, 9-11=-105/1457 WEBS 5-12=-77/380, 3-14=0/319, 3-12=-814/258, 6-12=-154/612, 7-12=-444/199

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 16-5-9, Exterior(2E) 16-5-9 to 17-4-13, Exterior(2R) 17-4-13 to 21-7-12, Interior(1) 21-7-12 to 30-4-8 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=192, 9=156
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





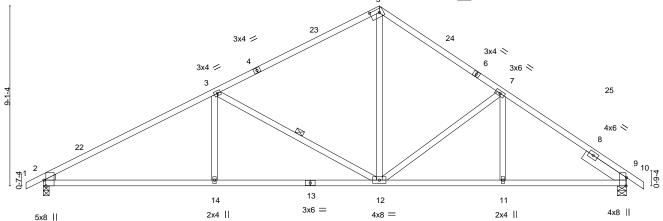
RELEASE FOR CONSTRUCTION Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVEGES6 2955860 A5 Roof Special

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc. Builders FirstSource (Valley Center), Valley Center, KS - 67147,

LEE'S SUMMIT, MISSOURI Thu Oct 711106 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-LpgmZkPRrXImqFY 7eWXpDR01D 9-6-0

2-9-15 2-9-15 6-1-4

5x8 / Scale = 1:58.3 6.00 12 8.00 12 5



17-0-0 29-6-0 Plate Offsets (X,Y)--[2:0-3-8,Edge], [5:0-5-10,0-2-4], [9:0-5-1,Edge] SPACING-**PLATES GRIP** LOADING (psf) CSI. DEFL. (loc) I/def L/d 25.Ó 240 TCLL Plate Grip DOL 1.15 TC 0.68 Vert(LL) -0.11 12-14 >999 197/144 MT20

TCDL 10.0 Lumber DOL 1.15 BC 0.63 Vert(CT) -0.26 12-14 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.48 Horz(CT) 0.08 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-AS Weight: 119 lb

BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

Job

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

WEDGE Left: 2x4 SPF No.2

SLIDER Right 2x6 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 9=0-5-8

Max Horz 2=223(LC 11)

Max Uplift 2=-194(LC 12), 9=-158(LC 13) Max Grav 2=1389(LC 1), 9=1389(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2207/296, 3-5=-1396/264, 5-7=-1464/272, 7-9=-1823/252

BOT CHORD 2-14=-297/1869, 12-14=-297/1869, 11-12=-108/1447, 9-11=-108/1447

WEBS 3-12=-880/273, 5-12=-97/812, 7-12=-457/211, 3-14=0/340

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 17-0-0, Exterior(2R) 17-0-0 to 20-0-0, Interior(1) 20-0-0 to 30-4-8 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=194, 9=158
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) 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.



October 8,2021



SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVESS

Job Reference (optional)

LEE'S SUMMIT, MISSOURI 8.430 s Aug 16 2021 MiTek Industries, Ir s. Thu Qet 711 0636 2021 Rage ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-p?D8n4P3cqQdSP7.hL1mLRzBs7V70FJFB_94VV1BF

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

Roof Special Girder

Truss Type

8-6-3 10-3-5 11-3-5 12-9-1 1-1-5 1-9-3 1-0-0 1-5-12 19-11-10 21-0-13 2-11-10 1-1-3 17-0-0 25-1-11 4-3-4 3-1-9 4-2-15 4-0-13

29-6-0

197/144

FT = 20%

MT20

Structural wood sheathing directly applied or 4-8-7 oc purlins.

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

Weight: 297 lb

Scale = 1:58.3

6.00 12 5 2x4 || 3x4 / 2x4 || 8.00 12 2x4 \\ 2x4 / 0-7-4 \cong 18 20 21 10 19 9 11 6x8 =Special Special Special 7x8 = 4x8 = 8x12 || 6x8 = Special Special 19-11-10 10-3-5 11-3-5 12-9-1 17-0-0 25-1-11 8-6-3 10-3-5 1-1-5 1-9-3 21-0-13 29-6-0 4-3-4 3-1-9 1-0-0 1-5-12 4-0-13 Plate Offsets (X,Y)--[1:Edge,0-2-9], [5:0-5-12,0-2-4], [8:0-0-0,0-3-1] L/d LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/def **PLATES** GRIP

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.16

0.06

-0.30 11-17

9-14

8

>999

>999

n/a

240

180

n/a

Qty

7x8 🖊

Ply

LUMBER-

TCLL

TCDL

BCLL

BCDL

Job

2955860

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 *Except* BOT CHORD 8-10: 2x8 SP 2400F 2.0E

2x4 SPF No.2 WEBS

25.0

10.0

10.0

0.0

WEDGE

Left: 2x6 SPF No.2, Right: 2x4 SP No.3

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

Max Horz 1=213(LC 5)

Truss

A6

Max Uplift 8=-699(LC 9), 1=-383(LC 8) Max Grav 8=4967(LC 1), 1=2551(LC 1)

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

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

TOP CHORD 1-2=-4684/726, 2-4=-4417/728, 4-5=-4466/818, 5-6=-6093/1066, 6-7=-6156/968,

1.15

1.15

NO

TC

BC

WB

Matrix-MS

0.68

0.87

0.58

7-8=-6463/994

1-11=-682/4060, 9-11=-471/3518, 8-9=-768/5357 **BOT CHORD**

WFBS 5-11=-368/837, 7-9=-388/192, 6-9=-318/206, 5-9=-875/4697, 4-11=-297/130,

2-11=-342/240

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 0-9-0 oc, 2x8 - 2 rows staggered at 0-3-0 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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) except (jt=lb) 8=699, 1=383,
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2798 lb down and 534 lb up at 19-11-4, 516 lb down and 72 lb up at 21-11-4, 516 lb down and 72 lb up at 25-11-4, and 516 lb down and 72 lb up at 25-11-4, and 516 lb down and 72 lb up at 27-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



October 8,2021

COARIGASE(S)geStandard



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

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



SUMMIT/STONEY CREEK 110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVESST

| 2 | Job Reference (optional) | B.430 s Aug 16 2021 MiTek Industries, Irc. Thu Qtt 711/0936/2021 Rags 2 | ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-p?D8n4P3cqQdSP7.hL1mLRzBs7V70TTB_44VVtB2

Qty

Ply

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

Truss

A6

LOAD CASE(S) Standard

Job

2955860

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

Vert: 1-5=-70, 5-8=-70, 12-15=-20

Concentrated Loads (lb)

Vert: 9=-2798(F) 18=-516(F) 19=-516(F) 20=-516(F) 21=-516(F)

Truss Type

Roof Special Girder

16023 Swingley Ridge Rd Chesterfield, MO 63017

SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVESS8

LEE'S SUMMIT. MISSOURI

Scale = 1:52.7

Job Reference (optional)

Qty

8.430 s Aug 16 2021 MiTek Industries, Ir 2. Thu Opt Z1110937,2071-Rags 1 ID:9TfwzKJJ_y34AD7?hPvfOzykJh0-IBnW_QQhN8YU3YiVE; Z?ueWM2WdHXdOJP kBczy/hBD

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

Roof Special Girder

Truss Type

19-0-0 22-0-0 -0-10-8 0-10-8 4-1-11 2-0-0 6-5-3 6-5-3 3-0-0

6x8 🖊 8.00 12 6 3x4 = 4x6 = 19 2x4 || 5 4x6 = 4x8 / 16 6.00 12 2-9-2 10 11 9 8 3x6 = 5x8 = 4x8 = 3x4 4x8 || 6-1-11 12-6-13 22-0-0 19-0-0 4-1-11 2-0-0 Plate Offsets (X,Y)--[2:0-3-8,Edge], [4:0-4-0,0-1-12], [6:0-5-15,0-3-0] SPACING-CSI in (loc) I/def L/d **PLATES** GRIP Plate Grip DOL 1.15 TC 0.65 Vert(LL) -0.18 8-9 >999 240 197/144

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

WEBS

-0.37

0.11

8-9

16

1 Row at midpt

>717

n/a

180

n/a

Rigid ceiling directly applied or 8-5-3 oc bracing.

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

Job

2955860

Truss

A7

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

25.0

10.0

10.0

0.0

WEDGE Left: 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 16=0-1-8

Max Horz 2=260(LC 9)

Max Uplift 2=-147(LC 12), 16=-180(LC 12) Max Grav 2=1049(LC 1), 16=953(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

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

TOP CHORD 2-3=-1684/201, 3-4=-1411/201, 4-5=-1260/163, 5-6=-1287/298, 8-12=-205/881,

1.15

NO

BC

WB

Matrix-MS

0.87

0.73

7-12=-205/881

BOT CHORD 2-11=-425/1449, 9-11=-477/1902, 8-9=-124/289

3-11=-33/600, 4-9=-910/228, 5-9=-507/251, 6-9=-308/1268, 4-11=-717/119, WFBS

6-8=-830/244, 7-16=-959/207

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-1-11, Exterior(2E) 4-1-11 to 6-1-11, Interior(1) 6-1-11 to 19-0-0, Exterior(2E) 19-0-0 to 21-6-12 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=147 16=180
- 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.



MT20

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

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

Weight: 107 lb

FT = 20%

October 8,2021



SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVEGES9

LEE'S SUMMIT, MISSOURI

197/144

FT = 20%

MT20

Structural wood sheathing directly applied, except end verticals, and

Weight: 110 lb

3-0-0

19-0-0

4-9-3

| Job Reference (optional) | LEE'S SUMMIT, MISSOU | 8.430 s Aug 16 2021 MiTek Industries, Irc. Thu Oct 2/11/0938/2021 Page 1/10:9TfwzKJJ_y34AD7?hPVfOzykJh0-mOLvCmRJ8SgLhiHho n4ERs3Z w p64 R nez 7/85/16BV 22-0-0

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

Truss

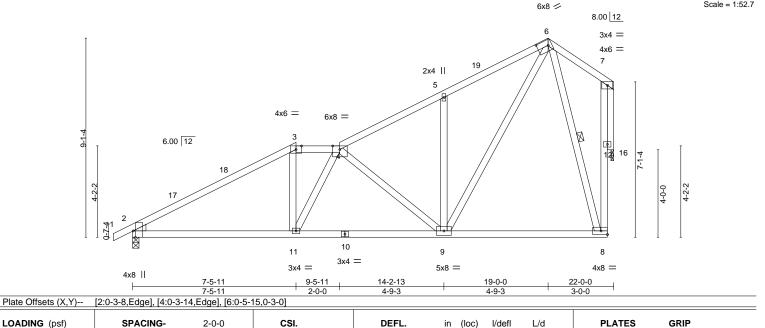
A8

14-2-13 7-5-11 2-0-0 4-9-3

Truss Type

Roof Special

Scale = 1:52.7



Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

WEBS

-0.08

-0.16

0.11

8-9

8-9

16

>999

>999

n/a

240

180

n/a

2-0-0 oc purlins (4-9-14 max.): 3-4.

Rigid ceiling directly applied.

1 Row at midpt

Qty

LUMBER-

TCLL

TCDL

BCLL

BCDL

Job

2955860

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

25.0

10.0

10.0

0.0

WEDGE Left: 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 16=0-1-8

Max Horz 2=260(LC 9)

Max Uplift 2=-147(LC 12), 16=-180(LC 12) Max Grav 2=1049(LC 1), 16=953(LC 1)

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

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

TOP CHORD 2-3=-1549/198, 3-4=-1284/222, 4-5=-969/154, 5-6=-980/252, 8-12=-205/870,

7-12=-205/870

BOT CHORD 2-11=-390/1294, 9-11=-370/1347, 8-9=-123/289

WFBS 3-11=0/316, 5-9=-366/183, 4-9=-707/189, 6-8=-827/234, 6-9=-269/1084, 7-16=-959/211

1.15

1.15

YES

TC

BC

WB

Matrix-AS

0.51

0.47

0.48

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-5-11, Exterior(2E) 7-5-11 to 9-5-11, Interior(1) 9-5-11 to 19-0-0, Exterior(2E) 19-0-0 to 21-6-12 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=147, 16=180,
- 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPESO

LEE'S SUMMIT. MISSOURI

Scale = 1:52.8

Job Truss Truss Type Qty 2955860 A9 Roof Special Builders FirstSource (Valley Center), Valley Center, KS - 67147,

Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Irc. Thu Oct 711 00 40 2021 Page 1 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-imTfcSTag3w3w0lk4wB6iWH8vkktlk4y35HyrD8y (qt).

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (5-7-12 max.): 3-4.

Rigid ceiling directly applied.

1 Row at midpt

5x8 /

10-9-11 19-0-0 22-0-0 5-5-0 5-5-0 5-4-11 2-0-0 6-2-5 3-0-0

8.00 12 5 4x6 = 6x8 = 4x12 / 3 6.00 12 9-1-4 2x4 || 3x4 =15 4-0-0 0-7-4 9 7 10 8 3x4 =3x4 = 5x8 = 4x8 = 4x6 || 12-9-11 10-9-11 19-0-0 5-4-11 Plate Offsets (X,Y)--[3:0-4-2,Edge], [4:0-6-0,0-1-12], [5:0-5-8,0-2-0]

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.13	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.27	7-8	>960	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.09	15	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-AS						Weight: 111 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

WEDGE Left: 2x4 SPF No.2

REACTIONS. (size) 1=Mechanical, 15=0-1-8

Max Horz 1=253(LC 9)

Max Uplift 1=-130(LC 12), 15=-180(LC 12) Max Grav 1=987(LC 1), 15=954(LC 1)

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

TOP CHORD $1\hbox{-}2\hbox{--}1639/216, 2\hbox{-}3\hbox{--}1635/326, 3\hbox{-}4\hbox{--}976/180, 4\hbox{-}5\hbox{--}1171/273, 7\hbox{-}11\hbox{--}229/904,}$

6-11=-229/904

BOT CHORD 1-10=-428/1395, 8-10=-305/978, 7-8=-129/296

WEBS 2-10=-335/188, 4-8=-781/224, 3-10=-195/605, 5-7=-854/267, 5-8=-273/1167,

6-15=-960/215

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-9-11, Exterior(2E) 10-9-11 to 12-9-11 , Interior(1) 12-9-11 to 19-0-0, Exterior(2E) 19-0-0 to 21-6-12 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 15 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 at joint(s) 15.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=130, 15=180,
- 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.





SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVESS1

LEE'S SUMMIT. MISSOURI

FT = 20%

Weight: 135 lb

Structural wood sheathing directly applied or 3-11-6 oc purlins,

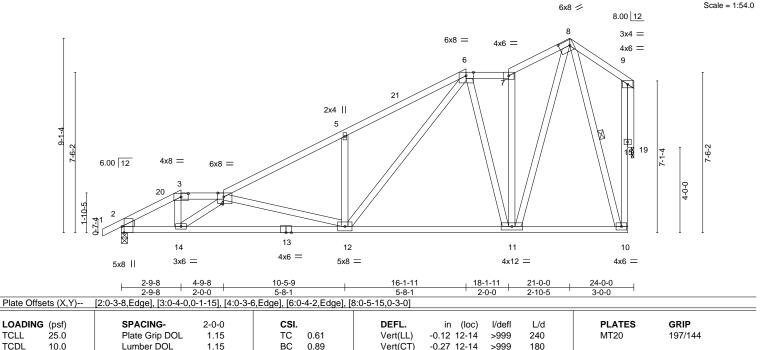
except end verticals, and 2-0-0 oc purlins (4-8-4 max.): 3-4, 6-7.

2955860 A10 Roof Special Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

Truss Type

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Ort 71109 11 2021 Rage 1 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-2BDhXX6NV9GAyZjV b5vrARwA2ywFwhoRQ RohkyVqBQ 16-1-11 18-1-11 21-0-0 24 0-0

2-0-0 5-8-1 5-8-1 2-0-0 2-10-5



BRACING-

TOP CHORD

Qty

TCDL **BCLL** 0.0 Rep Stress Incr NO WB 0.68 Horz(CT) 0.14 19 n/a n/a Code IRC2018/TPI2014 **BCDL** 10.0 Matrix-MS

> 2x4 SPF No.2 *Except* 2-13: 2x4 SPF 1650F 1.5E **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc bracing, Except: WEBS 2x4 SPF No.2 7-10-3 oc bracing: 12-14.

OTHERS 2x4 SP 2400F 2.0E **WEBS** 8-10 1 Row at midpt WEDGE

Left: 2x4 SPF No.2

TOP CHORD 2x4 SPF No.2

TCLL

LUMBER-

BOT CHORD

Job

Truss

REACTIONS. (size) 2=0-3-8, 19=0-1-8

Max Horz 2=260(LC 9)

Max Uplift 2=-167(LC 12), 19=-192(LC 12) Max Grav 2=1139(LC 1), 19=1043(LC 1)

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

TOP CHORD 2-3=-1839/224, 3-4=-1534/211, 4-5=-1725/225, 5-6=-1721/346, 6-7=-647/146,

7-8=-752/196, 10-15=-201/947, 9-15=-201/947

BOT CHORD 2-14=-445/1600, 12-14=-566/2510, 11-12=-233/781, 10-11=-121/319

WEBS 3-14=-59/742, 4-12=-1082/247, 5-12=-415/213, 8-10=-931/217, 7-11=-455/127, 8-11=-246/1085, 6-12=-266/1115, 4-14=-1223/208, 6-11=-483/170, 9-19=-1050/220

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-9-8, Exterior(2E) 2-9-8 to 4-9-8, Interior(1) 4-9-8 to 16-1-11, Exterior(2E) 16-1-11 to 18-1-11, Interior(1) 18-1-11 to 21-0-0, Exterior(2E) 21-0-0 to 23-6-12 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 19.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=167, 19=192.
- 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.





SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVECES2

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc.

24-0-0

4-6-5

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (4-6-8 max.): 3-4, 6-7.

Rigid ceiling directly applied.

1 Row at midpt

LEE'S SUMMIT. MISSOURI

8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Opt 711/06/12/2021 Rage 1 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-WOn3kt7?GSO1ajlhrtJc8NN_61Slk/Llm/wwwNDry/vgiJn

Qty

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

Truss Type

Roof Special

Truss

A11

-0-10-8 0-10-8 19-5-11 4-9-8 2-0-0 6-4-1 6-4-1

Scale = 1:62.5

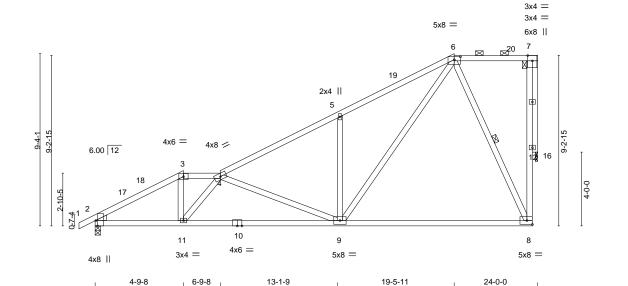


Plate Offsets (X,Y)	[2:0-3-8,Edge], [6:0-4-0,0-1-15]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) -0.27 8-9 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.87	Vert(CT) -0.55 8-9 >524 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.82	Horz(CT) -0.15 16 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 119 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

6-4-1

LUMBER-

Job

2955860

2x4 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 **OTHERS** 2x4 SP 2400F 2.0E

WEDGE Left: 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 16=0-1-8

Max Horz 2=263(LC 12)

Max Uplift 2=-149(LC 12), 16=-186(LC 12) Max Grav 2=1139(LC 1), 16=1043(LC 1)

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

TOP CHORD $2-3=-1840/206,\ 3-4=-1541/211,\ 4-5=-1380/138,\ 5-6=-1386/279,\ 8-12=-207/927,$

4-9-8

2-0-0

7-12=-207/927

BOT CHORD 2-11=-457/1578, 9-11=-487/2007, 8-9=-167/437

3-11=-26/660, 4-9=-927/238, 5-9=-473/241, 4-11=-735/98, 6-9=-295/1252, WFBS

6-8=-911/264, 7-16=-1046/223

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-9-8, Exterior(2E) 4-9-8 to 6-9-8, Interior(1) 6-9-8 to 19-5-11, Exterior(2R) 19-5-11 to 22-5-11, Interior(1) 22-5-11 to 23-6-12 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=149, 16=186,
- 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVECES3

2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc.

LEE'S SUMMIT, MISSOURI Thu Oct 7 11 06 14 2021 Rage 4Okec 503 NVFRIE FILTE(Vo

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

Truss

A12

ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-Tmuq9Z8Go4elp0R4Okec3o3NVF 22-1-11 27-0-0 31-10-4

Ply

5x8 /

Qty

37-0-0

8-11-0 13-3-14 3-5-11 3-5-5 2-0-0 4-4-14 0-10-0 3-6-14 4-4-14 4-10-4 4-10-4

Truss Type

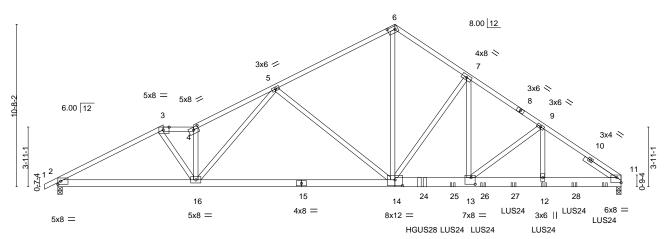
ROOF SPECIAL GIRDER

Scale = 1:75.7

Structural wood sheathing directly applied, except

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

2-0-0 oc purlins (4-8-4 max.): 3-4.



	3-5-11 6-11-0 8-11-0	13-3-14 14-1-14 17-8-1		27-0-0	31-10-4	37-0-0	4
	3-5-11 3-5-5 2-0-0	4-4-14 0 <u>-</u> 10- <u>0</u> 3-6-14	4-4-14	4-10-4	4-10-4	5-1-12	<u> </u>
Plate Offsets (X,Y)	[3:0-4-10,Edge], [4:0-4-0,0-2-0], [6:0-5-7	1,0-2-8], [11:Edge,0-4-0],	[13:0-3-4,0-5-4], [14:0-	-6-0,0-4-8]			
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.86		n (loc) I/defl 2 14-16 >999	L/d 240	PLATES MT20	GRIP 197/144
TCDL 10.0 BCLL 0.0	Lumber DOL 1.15 Rep Stress Incr NO	BC 0.82 WB 0.79	Vert(CT) -0.45 Horz(CT) 0.09	5 14-16 >989 9 11 n/a	180 n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS				Weight: 410 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD 4-6: 2x4 SPF 1650F 1.5E

BOT CHORD 2x6 SPF No.2 *Except* 11-14: 2x8 SP 2400F 2.0E

WEBS 2x4 SPF No.2

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

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

Max Horz 2=259(LC 26)

Max Uplift 2=-489(LC 8), 11=-823(LC 9) Max Grav 2=3210(LC 1), 11=6124(LC 1)

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

TOP CHORD 2-3=-6167/918, 3-4=-6835/1028, 4-5=-7554/1186, 5-6=-5403/862, 6-7=-5761/955,

7-9=-7699/1171, 9-11=-8283/1152

BOT CHORD 2-16=-902/5426, 14-16=-893/5645, 13-14=-863/6383, 12-13=-883/6800, 11-12=-883/6800 6-14=-786/5085, 7-14=-2930/590, 7-13=-490/3116, 9-13=-607/142, 9-12=-37/541, WFBS

3-16=-326/2754, 5-14=-1201/360, 5-16=-240/1645, 4-16=-3570/577

NOTES-

Job

2955860

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: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-3-0 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=489, 11=823
- 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.
- 10) Use Simpson Strong-Tie HGUS28 (36-16d Girder, 6-16d Truss) or equivalent at 23-11-4 from the left end to connect truss(es) to front face of bottom chord.
- 11) 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 Continued of panetize left end to 35-11-4 to connect truss(es) to front face of bottom chord.



October 8,2021



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

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



RELEASE FOR CONSTRUCTION SUMMIT/STONEY CREEK 110/MO AS NOTED FOR PLAN REVIEW

Job Truss Truss Type Qty Ply ROOF SPECIAL GIRDER 2955860 A12 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

| 2 | Job Reference (optional) | LEE'S SUMMIT, MISSOURI

8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Ort 711,06142071 Page 3
ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-Tmuq9Z8Go4elpDR4Okec 303NVFRIeFii 7FfTzevo8B

DEVELOPMENT SER FOES3

LEE'S SUMMIT. MISSOURI

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 4-6=-70, 6-11=-70, 17-20=-20

Concentrated Loads (lb)

Vert: 12=-516(F) 22=-528(F) 24=-2836(F) 25=-516(F) 26=-516(F) 27=-516(F) 28=-527(F)



SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVESS4

LEE'S SUMMIT, MISSOURI

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc.

Qty

8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Oct Z11109 16 2021 Rage ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-P90aaFAWKhuT2KbT W9h4XDsmr, g76EJka / 8aVX/y 37-10₁8 22-1-11 6-7-2 7-3-6

Structural wood sheathing directly applied, except

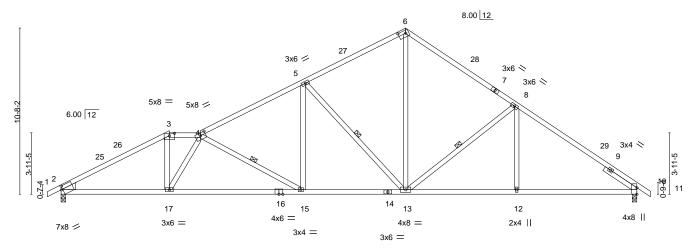
4-15, 5-13, 8-13

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

Rigid ceiling directly applied.

1 Row at midpt

5x8 / Scale = 1:74.0



		6-11-8	₁ 8-11-8 ₁	15-6-10	22-1-11	1 29-5-2	37-0-0	
		6-11-8	2-0-0	6-7-2	6-7-2	7-3-6	7-6-14	1
Plate Off	sets (X,Y)	[2:0-0-15,0-2-10], [3:0-4-	0,0-1-15], [4:0	-4-0,0-2-0], [6:0-5-10,	0-2-4], [10:Edge,0-0-0]			
LOADIN	G (nef)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.68		(/	240 MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.89	Vert(CT)	-0.50 15-17 >892 1	180	
BCLL	0.0	Rep Stress Incr	YES	WB 0.46	Horz(CT)	0.14 10 n/a	n/a	
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix-AS			Weight: 161 II	o FT = 20%

BRACING-TOP CHORD

BOT CHORD

WEBS

LUMBER-

Job

2955860

Truss

A13

6-11-8

Builders FirstSource (Valley Center),

Truss Type

Roof Special

15-6-10

6-7-2

Valley Center, KS - 67147,

2-0-0

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

WEDGE

Left: 2x6 SPF No.2

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

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=263(LC 11)

Max Uplift 2=-247(LC 12), 10=-190(LC 13) Max Grav 2=1726(LC 1), 10=1726(LC 1)

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

TOP CHORD $2-3=-2975/399,\ 3-4=-2522/396,\ 4-5=-2535/367,\ 5-6=-1733/344,\ 6-8=-1889/356,$

8-10=-2352/325

BOT CHORD 2-17=-427/2563, 15-17=-495/3052, 13-15=-277/2176, 12-13=-144/1867, 10-12=-144/1867 3-17=-75/1040, 4-15=-1005/250, 5-15=-53/658, 5-13=-1062/281, 6-13=-191/1237, WFBS

8-13=-576/250, 8-12=0/281, 4-17=-1056/159

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-9-14, Interior(1) 2-9-14 to 6-11-8, Exterior(2E) 6-11-8 to 8-11-8, Interior(1) 8-11-8 to 22-1-11, Exterior(2R) 22-1-11 to 25-10-2, Interior(1) 25-10-2 to 37-10-8 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=247, 10=190.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 8,2021



SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVESS5

LEE'S SUMMIT, MISSOURI

Job Reference (optional)

7-3-6

Structural wood sheathing directly applied, except

2-0-0 oc purlins (3-5-12 max.): 3-4.

Rigid ceiling directly applied.

1 Row at midpt

Thu Oct 7411/0 17/2021

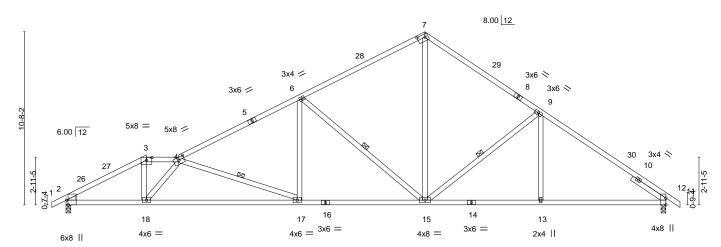
8.430 s Aug 16 2021 MiTek Industries, Irc. ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-tLaynaB85?0Kgl_Af3sCJ4RhxtS/

37-0-0

Qty

5x8 // Scale = 1:71.1

4-17, 6-15, 9-15



7-7-2

\vdash	4-11-8 6-11-8 4-11-8 2-0-0	14-6-10 7-7-2	22-1-11 7-7-2	29-5-2 7-3-6	37-0-0 7-6-14
Plate Offsets (X,Y)	[2:0-3-8,Edge], [3:0-4-0,0-	1-15], [4:0-4-0,0-2-0], [7:0-5-1	10,0-2-4], [11:Edge,0-0-0]		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 CSI. 1.15 TC 0. 1.15 BC 0. YES WB 0. 12014 Matrix-A:	77 Vert(CT) -0 54 Horz(CT) 0	in (loc) I/defl L/d .25 17-18 >999 240 .60 17-18 >743 180 .14 11 n/a n/a	PLATES GRIP MT20 197/144 Weight: 158 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

Job

2955860

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

2-16: 2x4 SPF 1650F 1.5E

Truss

A14

4-11-8

Builders FirstSource (Valley Center),

Truss Type

Roof Special

Valley Center, KS - 67147,

2-0-0

2x4 SPF No.2 WEBS

WEDGE

Left: 2x4 SPF No.2

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

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

Max Horz 2=263(LC 11)

Max Uplift 2=-247(LC 12), 11=-190(LC 13) Max Grav 2=1726(LC 1), 11=1726(LC 1)

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

TOP CHORD 2-3=-3025/394, 3-4=-2560/374, 4-6=-2720/374, 6-7=-1758/338, 7-9=-1891/350,

9-11=-2351/320

2-18=-446/2626, 17-18=-587/3470, 15-17=-318/2332, 13-15=-143/1865, 11-13=-143/1865 **BOT CHORD** WEBS

3-18=-116/1224, 4-17=-1211/287, 6-17=-21/636, 6-15=-1143/302, 7-15=-172/1201,

9-15=-573/250, 9-13=0/276, 4-18=-1464/237

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-9-14, Interior(1) 2-9-14 to 4-11-8, Exterior(2E) 4-11-8 to 6-11-8, Interior(1) 6-11-8 to 22-1-11, Exterior(2R) 22-1-11 to 25-10-2, Interior(1) 25-10-2 to 37-10-8 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=247, 11=190
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 8,2021



SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES6

LEF'S SUMMIT, MISSOURI

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

Truss

A15

8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Opt 7.11 09 19 2021 Page 7 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-pkijCGCPdcH2vnK2t HEn9sm 1G 9/bt 2 W Nezy 10 19

Job Reference (optional)

-0-10-8 2-11-8 0-10-8 2-11-8 4-11-8 2-0-0 22-1-11 5-8-12 5-8-12 5-8-12 7-3-6

Truss Type

Roof Special Girder

Scale = 1:74.5

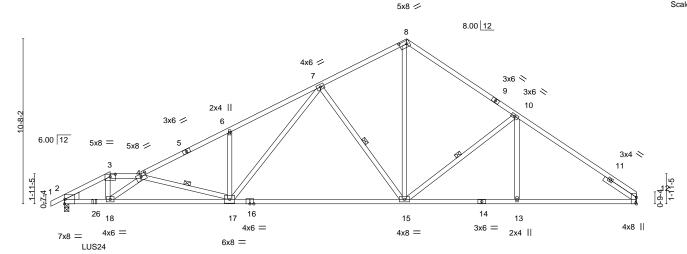
Structural wood sheathing directly applied or 2-5-14 oc purlins,

4-17, 7-15, 10-15

2-0-0 oc purlins (3-1-11 max.): 3-4.

1 Row at midpt

Rigid ceiling directly applied or 9-1-3 oc bracing.



Qty

		2-11-8 4-11-8	10-8-4	16-5-0	22-1-11	29-5-2	37-	-0-0	
		2-11-8 2-0-0	5-8-12	5-8-12	5-8-12	7-3-6	7-6	6-14	
Plate Offsets	(X,Y)	[3:0-4-0,0-1-15], [4:0-4-0	,0-2-0], [8:0-5-11	,0-2-8], [12:Edge,0-0-0)]				
LOADING (p	sf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d PI	ATES GRI	₽
TCLL 25	5.0	Plate Grip DOL	1.15	TC 0.81	Vert(LL)	-0.36 15-17 >999	240 M	T20 197/	144
TCDL 10	0.0	Lumber DOL	1.15	BC 0.99	Vert(CT)	-0.82 15-17 >543	180		
BCLL (0.0	Rep Stress Incr	NO	WB 0.45	Horz(CT)	0.14 12 n/a	n/a		
BCDL 10	0.0	Code IRC2018/T	PI2014	Matrix-MS	, ,		W	eight: 165 lb FT	= 20%

TOP CHORD

BOT CHORD

WEBS

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD

8-9: 2x4 SPF 1650F 1.5E 2x4 SPF No.2 *Except*

BOT CHORD 2-16: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

WEDGE

Left: 2x6 SPF No.2

Job

2955860

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

REACTIONS. (size) 2=0-3-8, 12=Mechanical

Max Horz 2=260(LC 5)

Max Uplift 2=-358(LC 8), 12=-179(LC 9) Max Grav 2=2373(LC 1), 12=1700(LC 1)

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

TOP CHORD 2-3=-3750/531, 3-4=-3198/477, 4-6=-3425/456, 6-7=-3430/574, 7-8=-1794/305,

8-10=-1957/332, 10-12=-2411/277

BOT CHORD 2-18=-604/3329, 17-18=-827/4801, 15-17=-280/2114, 13-15=-153/1919, 12-13=-153/1919 **WEBS** 3-18=-191/1531, 4-17=-1883/390, 6-17=-391/204, 7-15=-1017/309, 8-15=-212/1348,

10-15=-570/262, 4-18=-2047/355, 7-17=-279/1438

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=358, 12=179,
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 1-11-4 from the left end to connect truss(es) to back face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 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

Continued on page 2

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

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

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



OF MISS

SCOTT M.

SEVIER

NUMBER

PE-2001018807

October 8,2021

SSIONAL

Truss Truss Type Qty SUMMIT/STONEY CREEK 110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER FOES6 2955860 A15 Roof Special Girder

Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Irc. Thu Opt 71100192021 Page 2

ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-pkijCGCPdcH2vnK2t HEn9sm 1G 9yb z BV Nc zgv 0t 92

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

LOAD CASE(S) Standard

Job

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

Vert: 1-3=-70, 3-4=-70, 4-8=-70, 8-12=-70, 19-22=-20

Concentrated Loads (lb) Vert: 26=-682(B)



SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVESST

LEE'S SUMMIT, MISSOURI

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

Truss Type

Roof Special

Truss

A16

8.430 s Aug 16 2021 MiTek Industries, Ir s. Thu Opt 7,1106-21,2071-2309 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-l6pTdyEf9DXI95u QliGFEHseQ4NJnN4GkgsL2V (g

Job Reference (optional)

16-3-0 18-4-0 20-1-11 25-6-14 31-0-0 33-8- 35-0-0 4-11-11 4-11-5 6-4-0 2-1-0 1-9-11 5-5-2 5-5-2 2-8-8

Qty

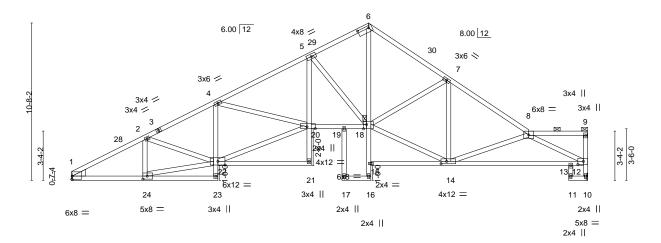
5x12 MT20HS // Scale = 1:78.1

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 8-9.

Rigid ceiling directly applied.

1 Brace at Jt(s): 9, 18



		4-11-11	9-11-0	16-3-0	18-4-0 20-3-8	25-6-14	1 31-0-0	33-8-8 35-0-0	
		4-11-11	4-11-5	6-4-0	2-1-0 1-11-8	5-3-6	5-5-2	2-8-8 1-3-8	
Plate Offse	ts (X,Y)	[1:Edge,0-2-9], [6:0-9-6	,0-1-12], [12:0-4	-8,0-2-8], [14:0-4-8,0-2-0], [18:0-2-8,Edge	, [20:0-6-12,0-1-8	3], [22:0-5-12,0-3-0],	[24:0-3-8,0-2-8]	
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.58	Vert(LL)	-0.26 20	>999 240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.95	Vert(CT)	-0.48 21-22	>869 180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB 1.00	Horz(CT)	0.32 10	n/a n/a		
BCDL	10.0	Code IRC2018/7	ΓPI2014	Matrix-AS				Weight: 188 lb	FT = 20%
								_	

TOP CHORD

BOT CHORD

JOINTS

LUMBER-BRACING-

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

WEDGE

Left: 2x6 SPF No.2

REACTIONS.

Job

2955860

(size) 10=Mechanical, 1=Mechanical

Max Horz 1=293(LC 11)

Max Uplift 10=-173(LC 13), 1=-209(LC 12) Max Grav 10=1568(LC 1), 1=1568(LC 1)

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

TOP CHORD $1\hbox{-}2\hbox{--}2766/371, 2\hbox{-}4\hbox{--}3021/438, 4\hbox{-}5\hbox{--}3328/472, 5\hbox{-}6\hbox{--}2235/374, 6\hbox{-}7\hbox{--}2450/398,}$

7-8=-2401/311, 10-12=-1527/190

BOT CHORD 1-24=-432/2389, 4-22=-592/137, 5-20=-166/1238, 19-20=-366/2881, 18-19=-361/2860,

6-18=-280/1959, 13-14=-369/2585, 12-13=-335/2636

WEBS 20-22=-451/2843, 5-18=-1463/320, 7-14=-445/127, 8-14=-718/181, 8-12=-2805/412,

2-24=-465/128, 22-24=-399/2259, 2-22=-14/291, 14-18=-252/2042

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; Cat. II; Exp C; Enclosed: MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-6-0, Interior(1) 3-6-0 to 20-1-11, Exterior(2R) 20-1-11 to 23-7-11 , Interior(1) 23-7-11 to 34-10-4 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=173, 1=209
- 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 8,2021



SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVECESS8

LEE'S SUMMIT. MISSOURI

FT = 20%

Weight: 196 lb

Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Ort 711/0923/2021 Rage 1 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-iVxE2eFvgrnTOFdpQ7JjK k_L 17FVJZFBUS64/ qBc 18-4-0 20-1-11 2-1-0 1-9-11

24-3-14 28-6-0 33-8-8 4-2-2 4-2-2 5-2-8

35-0-0

16-3-0

6-4-0

Truss Type

Roof Special

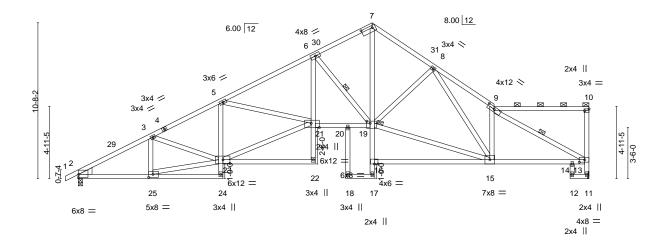
Valley Center, KS - 67147,

4-11-5

5x12 MT20HS /

Qty

Scale = 1:79.0



4-11-11 9-11-0 18-4-0 20-3-8 2-1-0 1-11-8 28-6-0 35-0-0 1-3-8 16-3-0 4-11-11 4-11-5 6-4-0 8-2-8 5-2-8 [2:Edge,0-2-9], [7:0-9-6,0-1-12], [9:0-6-0,0-1-14], [10:Edge,0-1-8], [13:0-4-8,0-2-0], [19:0-2-12,0-1-12], [21:0-6-12,Edge], [23:0-5-12,0-3-0], [25:0-3-8]

.0-2-81 LOADING (psf) SPACING-2-0-0 CSI DEFL I/defI L/d **PLATES GRIP** in (loc) **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.54 Vert(LL) -0.27 22 >999 240 MT20 197/144 Lumber DOL TCDL 10.0 вс 0.97 Vert(CT) -0.49 22-23 >853 180 MT20HS 148/108 1.15 WB 0.30 **BCLL** 0.0 Rep Stress Incr YES 0.70 Horz(CT) 11 n/a n/a

Matrix-AS

LUMBER-TOP CHORD 2x4 SPF No.2

10.0

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

Left: 2x6 SPF No.2

BCDI

Plate Offsets (X,Y)--

Job

2955860

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 9-10.

BOT CHORD Rigid ceiling directly applied. **WEBS** 1 Row at midpt 6-19, 9-13

1 Brace at Jt(s): 10, 19 **JOINTS**

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

Max Horz 2=319(LC 11)

Truss

A17

4-11-11

Builders FirstSource (Valley Center),

Max Uplift 11=-182(LC 13), 2=-226(LC 12) Max Grav 11=1568(LC 1), 2=1630(LC 1)

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

Code IRC2018/TPI2014

TOP CHORD $2-3=-2755/367,\ 3-5=-3016/437,\ 5-6=-3425/518,\ 6-7=-2211/383,\ 7-8=-2387/413,$ 8-9=-2736/386, 11-13=-1532/192

BOT CHORD 2-25=-434/2378, 5-23=-654/169, 6-21=-188/1415, 20-21=-479/2970, 19-20=-468/2929, 7-19=-302/1958, 14-15=-322/2248, 13-14=-323/2275

21-23=-479/2854, 5-21=-40/302, 9-15=-607/174, 6-19=-1624/341, 9-13=-2520/311,

WEBS 15-19=-334/2069, 8-19=-345/165, 8-15=-77/277, 3-25=-466/129, 23-25=-400/2247,

3-23=-28/298

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-7-8, Interior(1) 2-7-8 to 20-1-11, Exterior(2R) 20-1-11 to 23-7-11, Interior(1) 23-7-11 to 34-10-4 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=182, 2=226,
- 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 8,2021



SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVESS9

LEF'S SUMMIT, MISSOURI

Scale = 1:67.5

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

Truss

A18

8.430 s Aug 16 2021 MTek Industries, Ir c. Thu Opt 711/09-25/2071 Rage 1 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-eu3_TKH9CS1Bdir BXYLBP70LLhil/illwsfR178Wy0glb2

Job Reference (optional)

Qty

18-4-0 20-3-8 21-11-14 0-7-13 1-11-8 1-8-6 12-2-1 5-6-1

Truss Type

Roof Special

4x6 = 5x8 = 8.00 12 31__ ⊠_32 6.00 12 33 30 4x6 / 4x6 <> 3x4 II 4x6 = 6 3x6 / 3x4 15 14 18 16 6x12 = 17 4x8 =5x8 =13 12 21 20 3x4 =4x8 =4x8 =3x4 II 6x8 =

	3-8-8 6-8-0 3-8-8 2-11-8	12-2-1 5-6-1	17-8-3 5-6-1	18-4 ₇ 0 20-3-8 21-11-14 0-7-13 1-11-8 1-8-6	26-0-0 4-0-2			35-0-0 1-3-8
Plate Offsets (X,Y)	[2:Edge,0-2-9], [8:0-4-0,0-1	1-9], [9:0-3-0,0-1-14], [14:0-4-8,0-2-0], [<u>19:0-5-8,0-3-0], [21:0-3-8,0-2</u>	-0]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI	1.15 TO 1.15 BO YES W	0.99	DEFL. in (lo Vert(LL) -0.39 18-1 Vert(CT) -0.86 18-1 Horz(CT) 0.21	ý >999	L/d 240 180 n/a	PLATES MT20 Weight: 178 lb	GRIP 197/144 FT = 20%

TOP CHORD

BOT CHORD

WEBS

LUMBER-BRACING-

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

2x4 SPF No.2 WEDGE

Left: 2x6 SPF No.2

REACTIONS.

Job

2955860

(size) 12=Mechanical, 2=0-3-8

Max Horz 2=306(LC 11)

Max Uplift 12=-183(LC 13), 2=-213(LC 12) Max Grav 12=1568(LC 1), 2=1630(LC 1)

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

TOP CHORD 2-3=-2692/341, 3-5=-3658/491, 5-6=-3806/586, 6-7=-2029/361, 7-8=-1734/346,

8-9=-2398/456, 9-10=-1980/328, 12-14=-1529/226 **BOT CHORD** 2-21=-500/2323, 5-19=-365/153, 18-19=-504/2299, 16-18=-327/1590, 15-16=-243/1165,

14-15=-236/1210 WEBS

6-19=-268/1414, 9-16=-1524/327, 10-14=-1749/296, 10-16=-173/1259, 7-18=-57/533, 8-16=-161/801, 8-18=-87/442, 6-18=-804/274, 3-21=-904/193, 19-21=-442/2348,

3-19=-168/1012

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-7-8, Interior(1) 2-7-8 to 17-8-3, Exterior(2R) 17-8-3 to 21-2-3, Interior(1) 21-2-3 to 21-11-14, Exterior(2R) 21-11-14 to 25-5-14, Interior(1) 25-5-14 to 34-10-4 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=183, 2=213,
- 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.
- 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, except end verticals, and

2-0-0 oc purlins (3-11-14 max.): 7-8, 9-11.

Rigid ceiling directly applied.

1 Row at midpt

October 8,2021



3x4 =

2x4 ||

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (3-3-13 max.): 6-10.

Rigid ceiling directly applied.

1 Row at midpt

Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO 2955860 A19 Half Hip LEE'S SUMMIT, MISSOURI Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Opt 7,11,0626,2031-2393 (ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-64dMgflozm92Fs MO5FsQxKZf.953vSgi7;576jy/vgfZ 27-0-0 27-6-0 0-6-0 33-8-8 20-3-8 3-2-10 7-8-3 3-11-13 1-11-8 6-8-8

Scale = 1:66.9 5x12 MT20HS = 2x4 || 2x4 || 3x6 = 3x4 = 4x8 = 6.00 12 6 29 4x6 = 3x4 / 5 3 14 13 9 16 20 15 4x12 = 2x4 II 3x4 =4x8 =23 22 18 17 12 11 2x4 || 4x8 = 3x4 II 2x4 || 2x4 ||

6x8 =

		6-8-0	1	4-4-3	18	3-4-0 20-3-8	27	-0-0	27 ₋₆ 0	33-8-8	35-0-0 ₁
	3-5-6 3	-2-10	7	7-8-3	¹ 3-1	l1-13 ['] 1-11-8	1 6	8-8	0-6-0	6-2-8	1-3-8
Plate Offsets (X,Y)	[2:Edge,0-2-9],	[5:0-0-12,	0-1-12], [6:0-	7-4,0-1-8], [15	:0-3-8,0-2-0], [16:0-4-0,0-3-4	, [21:0-8-0,0-3	-0], [23:0	-3-8,0-2-0]		
LOADING (psf)	SPACIN	IG-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Gr	ip DOL	1.15	TC	0.82	Vert(LL)	-0.21 20-21	>999	240	MT20	197/144
TCDL 10.0	Lumber	DOL	1.15	BC	0.92	Vert(CT)	-0.44 20-21	>944	180	MT20HS	148/108
BCLL 0.0	Rep Stre	ess Incr	YES	WB	0.79	Horz(CT)	0.18 11	n/a	n/a		
BCDL 10.0	Code IF	RC2018/TF	PI2014	Matrix	-AS					Weight: 171 lb	FT = 20%

TOP CHORD

BOT CHORD

WEBS

LUMBER-BRACING-

Valley Center, KS - 67147,

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

6x8 =

WEBS 2x4 SPF No.2 WEDGE

Left: 2x6 SPF No.2

Job

Builders FirstSource (Valley Center),

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

Max Horz 2=277(LC 11)

Max Uplift 11=-270(LC 9), 2=-190(LC 12) Max Grav 11=1568(LC 1), 2=1630(LC 1)

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

TOP CHORD $2-3=-2672/293,\ 3-5=-3724/461,\ 5-6=-2499/321,\ 6-7=-2148/324,\ 7-9=-2155/323,$

9-10=-1511/247, 11-13=-1532/273, 10-13=-1493/289

2-23=-490/2302, 5-21=-53/575, 20-21=-710/3452, 19-20=-415/2117, 16-19=-401/2098, **BOT CHORD**

7-16=-492/174, 15-16=-320/1511

WEBS 5-20=-1393/350, 6-20=-49/576, 6-16=-138/270, 9-16=-151/849, 9-15=-1115/292,

10-15=-329/1943, 3-23=-836/183, 21-23=-444/2213, 3-21=-195/1080

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; Cat. II; Exp C; Enclosed: MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-7-8, Interior(1) 2-7-8 to 14-4-3, Exterior(2R) 14-4-3 to 19-3-9, Interior(1) 19-3-9 to 34-10-4 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=270, 2=190,
- 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 8,2021



SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVESS1

LEE'S SUMMIT, MISSOURI

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

Truss Type

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc.

Qty

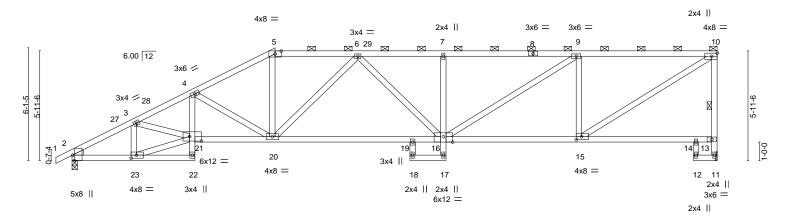
16 2021 MiTek Industries, Ir c. Thu Ort 711,0629,2071-8399 DzykJh0-WflVJhKgGhXd6K5,mNP7ZzBxo 51,4 R. 3cmkHyV (B)V 33-8-8

Truss

A20

						ID.JIIWZI	OO_yOTAD1:III VIOZYKOIIO	- vvii v oi ii (g Oi i/)
-0-10-8	3-4-3	6-8-0	11-0-3	15-6-1	18-4-0	20-3-8	27-0-0	27-6 _r 0
0-10-8	3-4-3	3-3-13	4-4-3	4-5-15	2-9-15	1-11-8	6-8-8	0-6-0

Scale = 1:62.5



	3-4-3	6-8-0	11-0-3	18-4-0	₁ 20-3-8 ₁	27-0-0	27,-6 _г 0	33-8-8	35-0-0 ₁
	3-4-3	3-3-13	4-4-3	7-3-13	1-11-8	6-8-8	0-6-0	6-2-8	1-3-8
Plate Offse	ets (X,Y)	[2:0-3-8,Edge], [5:0-4-0,	0-1-15], [15:0-3	-8,0-2-0], [16:0-6-0,Edge]	, [21:0-7-12,0-3-0], [23:	0-3-8,0-2-0]			
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL . i	n (loc) I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL) -0.2	4 19-20 >999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.94	Vert(CT) -0.5	5 19-20 >755	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.58	Horz(CT) 0.2	0 11 n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-AS	,			Weight: 161 lb	FT = 20%

LUMBER-

Job

2955860

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

WEBS WEDGE

Left: 2x4 SPF No.2

BRACING-

WEBS

TOP CHORD

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (2-7-14 max.): 5-10. **BOT CHORD** Rigid ceiling directly applied.

1 Row at midpt

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

Max Horz 2=215(LC 11)

Max Uplift 11=-275(LC 9), 2=-162(LC 12) Max Grav 11=1568(LC 1), 2=1630(LC 1)

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

TOP CHORD $2-3=-2674/302,\ 3-4=-3682/479,\ 4-5=-2910/405,\ 5-6=-2534/376,\ 6-7=-2928/456,$

7-9=-2928/469, 9-10=-2046/336, 11-13=-1531/280, 10-13=-1489/299

BOT CHORD 2-23=-450/2309, 4-21=-84/539, 20-21=-624/3315, 19-20=-557/2896, 16-19=-516/2914,

7-16=-423/146, 15-16=-409/2046

WEBS 4-20=-875/221, 5-20=-98/953, 3-23=-818/182, 21-23=-439/2188, 3-21=-177/1005,

6-20=-643/200, 9-16=-171/1044, 9-15=-1119/292, 10-15=-413/2353

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; Cat. II; Exp C; Enclosed: MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-7-8, Interior(1) 2-7-8 to 11-0-3, Exterior(2R) 11-0-3 to 15-11-9, Interior(1) 15-11-9 to 34-10-4 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=275, 2=162.
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 8,2021



SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVECES2

17-2-0

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc.

15-10-8

2-0-0 oc purlins (2-4-4 max.): 1-5, except end verticals.

2-8, 2-11

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

1 Row at midpt

LEE'S SUMMIT, MISSOURI

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

Truss Type

4-5-11

6-11-3

Roof Special Girder

Truss

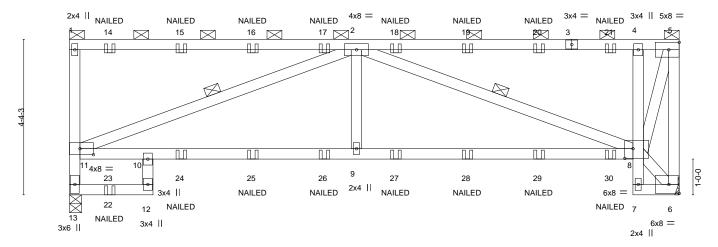
A21

ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-T2QFjNMwoInLLdELuoSbeOGF44GO71 11-4-13 15-10-8 17-2-0 11-4-13 15-10-8 3-3-1

Qty

Thu Oct 711/06/31/2021 Rage 1 SbeOGF46IO7 VI 11 H/O2/VgBU

Scale: 3/8"=1



1-2-9

0-็ <u>1</u> -8	2-4-0	4-5-11	ı	1-2-9	3-3-	-1	- 1		4-5-11	1.	-3-8
Plate Offsets (X,Y)	[8:0-2-12,0-3-4], [11:0	0-4-8,0-2-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOI	L 1.15	TC 1.00		Vert(LL)	0.17	8-9	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.97		Vert(CT)	-0.26	8-9	>762	180		
BCLL 0.0	Rep Stress Inc	r NO	WB 0.62		Horz(CT)	0.12	6	n/a	n/a		
BCDL 10.0	Code IRC2018	8/TPI2014	Matrix-MS							Weight: 81 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

11-4-13

8-1-12

LUMBER-

REACTIONS.

Job

2955860

2x4 SPF 1650F 1.5E *Except* TOP CHORD

2-5-8

3-5: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x4 SPF No.2

0-11-8

(size) 6=Mechanical, 13=0-4-0

Max Horz 13=103(LC 28)

Max Uplift 6=-478(LC 5), 13=-513(LC 4) Max Grav 6=1062(LC 1), 13=1093(LC 1)

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

2-4=-483/248, 4-5=-413/216, 5-6=-1043/480 TOP CHORD

BOT CHORD 10-11=-879/1889, 9-10=-877/1760, 8-9=-877/1760, 4-8=-590/336 **WEBS**

5-8=-649/1313, 2-9=-111/484, 2-8=-1370/655, 2-11=-1842/869, 11-13=-1025/500,

1-11=-287/171

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=478, 13=513.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-70, 12-13=-20, 8-10=-20, 6-7=-20



October 8,2021

Continued on page 2



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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or 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 and truss systems, see

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty SUMMIT/STONEY CREEK 110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER F6882 2955860 A21 Roof Special Girder LEE'S SUMMIT. MISSOURI Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 14=-55(B) 15=-32(B) 16=-32(B) 17=-32(B) 19=-32(B) 20=-32(B) 21=-32(B) 22=-27(B) 24=-48(B) 25=-48(B) 26=-48(B) 27=-48(B) 28=-48(B) 29=-48(B) 30=-48(B) 30=-48(B)

16023 Swingley Ridge Rd Chesterfield, MO 63017

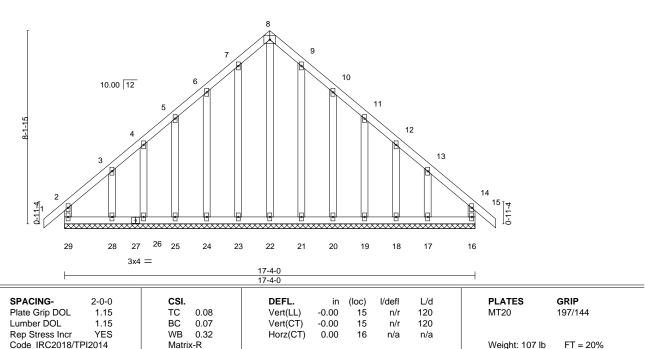


Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES3 **B1** Common Supported Gable LEE'S SUMMIT. MISSOURI

Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Irc. Thu Ost 21110941 2021 Page 1
ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-Az11qoTCRN2wYA1 GTvdx2UhAz8GpTbhC kyPlzyvqfk -0-10-8 0-10-8 8-8-0 8-8-0

> 4x6 = Scale = 1:48.7



LUMBER-BRACING-

Valley Center, KS - 67147,

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

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

REACTIONS. All bearings 17-4-0.

2x4 SPF No.2

Max Horz 29=211(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 29, 16, 23, 24, 25, 26, 21, 20, 19, 18 except 28=-140(LC 12),

Matrix-R

17=-132(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 29, 16, 22, 23, 24, 25, 26, 28, 21, 20, 19, 18, 17

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

TOP CHORD 6-7=-129/253, 7-8=-146/290, 8-9=-146/290, 9-10=-129/253

WEBS 8-22=-298/113

NOTES

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

OTHERS

25.0

10.0

0.0

10.0

Job

2955860

Builders FirstSource (Valley Center),

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-0-0, Exterior(2N) 2-0-0 to 8-8-0, Corner(3R) 8-8-0 to 11-8-0, Exterior(2N) 11-8-0 to 18-2-8 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 100 lb uplift at joint(s) 29, 16, 23, 24, 25, 26, 21, 20, 19, 18 except (it=lb) 28=140, 17=132.
- 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.



Weight: 107 lb

FT = 20%



SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW

Job Reference (optional)

LEE'S SUMMIT. MISSOURI

8.430 s Aug 16 2021 MiTek Industries, Ir z. Thu Opt 71110943/2071 Rage 1 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-6L8oFTVSz_leoT9 bKgQ8vn S0 17xVj/or B/vz/y gB 17-4-0 18-2-8 12-10-4 15-1-7 4-2-4 4-2-4

Ply

Qty

2-3-3 2-2-9

4x8 || Scale = 1:53.0

Structural wood sheathing directly applied or 4-4-13 oc purlins.

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

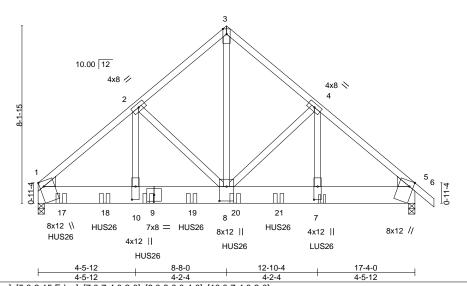


Plate Offsets (X,Y)-- [1:0-2-15,Edge], [5:0-2-15,Edge], [7:0-7-4,0-2-0], [8:0-8-0,0-4-0], [10:0-7-4,0-2-0]

Truss Type

Valley Center, KS - 67147,

Common Girder

2-3-3

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.08	8-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.14	8-10	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-MS						Weight: 252 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Job

2955860

Truss

B2

Builders FirstSource (Valley Center),

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x10 SP 2400F 2.0E WEBS 2x4 SPF No.2

WEDGE

Left: 2x6 SPF No.2, Right: 2x6 SPF No.2

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

Max Horz 1=-181(LC 27)

Max Uplift 1=-1011(LC 8), 5=-965(LC 9) Max Grav 1=7187(LC 1), 5=4896(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-7419/1133, 2-3=-5429/1003, 3-4=-5409/1004, 4-5=-6342/1268 **BOT CHORD** 1-10=-881/5625, 8-10=-881/5625, 7-8=-905/4789, 5-7=-905/4789

WEBS 3-8=-1179/6518, 4-8=-976/487, 4-7=-428/1031, 2-8=-2146/343, 2-10=-235/2520

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: 2x10 - 2 rows staggered at 0-5-0 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
- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) The Fabrication Tolerance at joint 1 = 12%, joint 5 = 12%
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1011, 5=965
- 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) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-0-12 from the left end to 11-0-12 to connect truss(es) to front face of bottom chord.
- 10) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss) or equivalent at 13-0-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
- 11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Continued on page 2





October 8,2021



16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION Truss Truss Type Qty Ply SUMMIT/STONEY CREEK 110/MO AS NOTED FOR PLAN REVIEW

B2 Common Girder

| Z | Job Reference (optional) | LEE'S SUMMIT, MISSOURI | 8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Oct 71100432071 | 899 2 | ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-6L8oFTVSz_leoT9 bKgQ8vn S0;17xNj/olfB/v27v | VgB/2 | VgB/2

DEVELOPMENT SER F6884

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Job

2955860

Vert: 1-3=-70, 3-6=-70, 11-14=-20

Concentrated Loads (lb)

Vert: 9=-1548(F) 7=-1042(F) 17=-1680(F) 18=-1548(F) 19=-1548(F) 20=-1548(F) 21=-1548(F)



SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES5

Common Supported Gable

Truss Type

Job Reference (optional)

Qty

LEE'S SUMMIT, MISSOURI

Valley Center, KS - 67147,

0-10-8

Truss

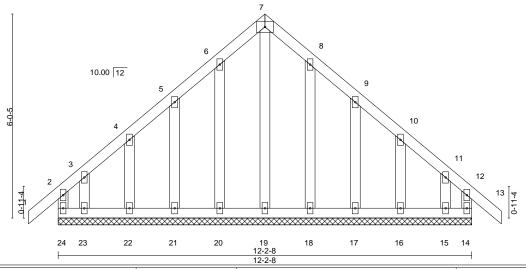
C₁

Builders FirstSource (Valley Center),

8.430 s Aug 16 2021 MiTek Industries, Ir 2. Thu Opt 711/0946/2021 Rage 1 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-XwqwtVXKGvgCfxuEGSD7IYC 1j9 BAU2yJCPKQZy qglF2

13-1-0 12-2-8 6-1-4

4x6 = Scale = 1:34.0



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL	-0.00	13	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT	-0.00	13	n/r	120		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(C	0.00	14	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	PI2014	Matri	x-R						Weight: 67 lb	FT = 20%

LUMBER-BRACING-

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

REACTIONS. All bearings 12-2-8.

2x4 SPF No.2

Max Horz 24=161(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 14, 20, 21, 22, 18, 17, 16 except 24=-123(LC 8), 23=-134(LC 12),

15=-122(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 24, 14, 19, 20, 21, 22, 23, 18, 17, 16, 15

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

NOTES-

OTHERS

Job

2955860

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-4, Exterior(2N) 2-1-4 to 6-1-4, Corner(3R) 6-1-4 to 9-1-4, Exterior(2N) 9-1-4 to 13-1-0 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 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 100 lb uplift at joint(s) 14, 20, 21, 22, 18, 17, 16 except (jt=lb) 24=123, 23=134, 15=122.
- 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.



October 8,2021



RELEASE FOR CONSTRUCTION Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES6

Job 2 2955860 C2 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

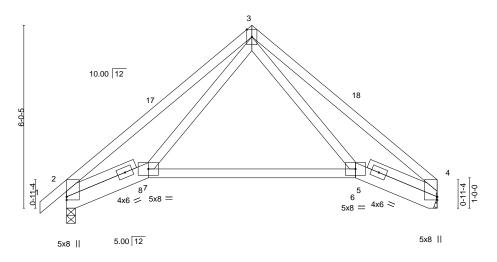
B.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Ort 711/0947 2021 Page 2 ID:9TfwzKJJ_y34AD7?hPvfOzykJh0-?7OI4rYz1Do3G_TQq9kM_w8_V/GS_n.sitpizZy\qJl-E 9-6-3 12-2-8 2-8-5 3-4-15 3-4-15 2-8-5

> Scale = 1:38.0 4x6 ||

> > Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LEE'S SUMMIT. MISSOURI



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 Vert(LL) -0.06 240 197/144 **TCLL** TC 0.33 6-7 >999 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.31 Vert(CT) -0.13 6-7 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.09 Horz(CT) 0.02 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-AS Weight: 57 lb FT = 20%

> **BRACING-**TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

2x6 SPF No.2 *Except* **BOT CHORD** 6-7: 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) 4=Mechanical, 2=0-3-8

Max Horz 2=131(LC 9)

Max Uplift 4=-54(LC 13), 2=-71(LC 12) Max Grav 4=547(LC 1), 2=613(LC 1)

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

0-10-8

2-3=-894/192, 3-4=-904/192 TOP CHORD

BOT CHORD 2-7=-350/649, 6-7=-24/372, 4-6=-284/621

WEBS 3-6=-39/406, 3-7=-68/408

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-1-4, Exterior(2R) 6-1-4 to 9-1-4, Interior(1) 9-1-4 to 12-2-8 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) 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.
- 5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 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.
- 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.



October 8,2021



RELEASE FOR CONSTRUCTION SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW

> DEVELOPMENT SER PROPEST LEE'S SUMMIT. MISSOURI

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc. Thu Oct 711,0048,2021 Rage 1 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-TJygIBZboWwwuF2cOtFbqzTJWylhgoUEkWuGVgYqfQED Builders FirstSource (Valley Center), Valley Center, KS - 67147,

3-4-15

Truss Type

Roof Special

2-4-13

11-11-0 9-2-11 3-4-15 2-8-5

Qty

Scale = 1:38.0 4x6 ||

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

2 10.00 12 16 0-11-4 5 0-1-7 5x8 = 4x6 ≥ 6x8 = 5.00 12 4x12 || 4x8 ||

11-11-0

Plate Offsets (X,Y)	[1:0-5-3,Edge], [1:1-5-6,0-5-6], [6:0-3-0,0-3-0]

Truss

C3

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) -0.06 5-6 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.31	Vert(CT) -0.14 5-6 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.02 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 56 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Job

2955860

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x6 SPF No.2 *Except*

5-6: 2x4 SPF No.2

WEBS 2x4 SPF No.2

SLIDER Left 2x6 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

REACTIONS. (size) 1=Mechanical, 3=Mechanical

Max Horz 1=-119(LC 8)

Max Uplift 1=-52(LC 12), 3=-54(LC 13) Max Grav 1=536(LC 1), 3=536(LC 1)

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

TOP CHORD 1-2=-848/196, 2-3=-884/195

BOT CHORD 1-6=-97/639, 5-6=-20/358, 3-5=-399/606

WEBS 2-6=-74/393, 2-5=-46/398

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-9-12, Exterior(2R) 5-9-12 to 8-9-12, Interior(1) 8-9-12 to 11-11-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- 7) 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.



October 8,2021



RELEASE FOR CONSTRUCTION SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES8

LEF'S SUMMIT, MISSOURI

Scale = 1:24.5

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc.

8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Opt 7,11 0949,2021 Page ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-xVW3VXZDYq2nWOdpxamqNA0u2Mc913TGA4eg177/vBD

2-0-0 oc purlins (5-8-12 max.): 1-3, except end verticals.

Rigid ceiling directly applied.

5-11-8 5-11-8

Qty

4x8 || 5x8 = 12 11 6 6x12 = 5x12 MT20HS || 5x12 MT20HS II

11-11-0

BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,Y)	[4:0-3-8,Edge]										
LOADING (ps	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25	.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.06	5	>999	240	MT20	197/144
TCDL 10	.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.11	5	>999	180	MT20HS	148/108
BCLL 0	.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10	.0	Code IRC2018/TPI	2014	Matri	x-AS						Weight: 79 lb	FT = 20%

LUMBER-

Job

2955860

TOP CHORD 2x8 SP 2400F 2.0E **BOT CHORD** 2x4 SP 2400F 2.0E WEBS 2x4 SPF No.2

REACTIONS.

(size) 6=Mechanical, 4=Mechanical

Max Horz 6=122(LC 32)

Truss

C4

Builders FirstSource (Valley Center),

Truss Type

Flat

Valley Center, KS - 67147,

Max Uplift 6=-512(LC 8), 4=-509(LC 9) Max Grav 6=2807(LC 1), 4=2833(LC 1)

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

1-6=-2730/650, 1-2=-3019/626, 2-3=-3019/626, 3-4=-2756/650 TOP CHORD

WEBS 1-5=-764/3449, 2-5=-3516/801, 3-5=-765/3444

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 8-9-4, Corner(3) 8-9-4 to 11-9-4 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
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are MT20 plates unless otherwise indicated.
- 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 100 lb uplift at joint(s) except (jt=lb) 6=512, 4=509,
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 883 lb down and 212 lb up at 1-10-4, 883 lb down and 212 lb up at 3-10-4, 884 lb down and 212 lb up at 5-10-4, and 973 lb down and 224 lb up at 7-10-4, and 973 lb down and 218 lb up at 9-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-70, 4-6=-20



October 8,2021

Continued on page 2

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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or 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 and truss systems, see

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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK 110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES8 Flat

Builders FirstSource (Valley Center), Valley Center, KS - 67147, | Job Reference (optional) | LEE'S SUMMIT, MISSOURI | 8.430 s Aug 16 2021 MiTek Industries, Irc. Thu Opt 71100502021 Rags 2 | ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-Ph4RjtarJ8Ae7YB?V 3wOYW mSOyWixPqNyZZYVt152

LEE'S SUMMIT, MISSOURI

LOAD CASE(S) Standard

Vert: 2=-884 7=-883 9=-883 10=-973 12=-973

C4

Concentrated Loads (lb)

2955860

RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES9 2955860 CJ1 Diagonal Hip Girder 2 LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc. Thu Oct 711,0050,2021 Rage 1 ID:9TfwzKJJ_y34AD7?hPvfOzykJh0-Ph4RjtarJ8Ae7YB?vII3wOYgJmtIvy4xyPoNtIZZyVqFB Builders FirstSource (Valley Center), Valley Center, KS - 67147,

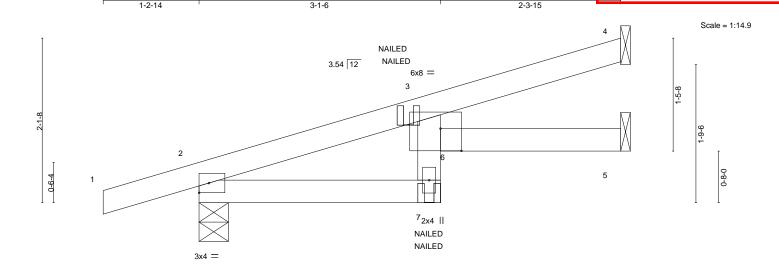


Plate Offsets (X,Y)--[3:0-3-4,0-3-7] SPACING-**PLATES** LOADING (psf) CSI DEFL. in (loc) I/defI L/d GRIP Plate Grip DOL TCLL 25.0 1.15 TC 0.28 Vert(LL) -0.03 6 >999 240 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.41 Vert(CT) -0.06 5-6 >999 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.01 5 n/a n/a

LUMBER-

BCDL

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

10.0

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 5-5-5 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 15 lb

REACTIONS.

4=Mechanical, 2=0-4-9, 5=Mechanical (size) Max Horz 2=76(LC 4) Max Uplift 4=-41(LC 8), 2=-83(LC 4), 5=-11(LC 8) Max Grav 4=133(LC 1), 2=341(LC 1), 5=101(LC 1)

Code IRC2018/TPI2014

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

TOP CHORD 2-3=-336/38 BOT CHORD 2-7=-71/288

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MR

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-70, 7-8=-20, 5-6=-20

Concentrated Loads (lb)

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



October 8,2021

FT = 20%



Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DE LA COMPANION DE 2955860 CJ₂ Diagonal Hip Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc. LEE'S SUMMIT. MISSOURI 8.430 s Aug 16 2021 MiTek Industries, Irc. Thu Opt 7111 0952 2031 Rage 1 ID:9TfwzKJJ_y34AD7?hPvfOzykJh0-L4BB8Yc5rlRMNsl OdjKX?pe1s26jh.dl.qs.ks.ylegy (gl.9 Builders FirstSource (Valley Center), Valley Center, KS - 67147, 5-1-15 3-7-1 3-7-1 0-11-1 1-6-14

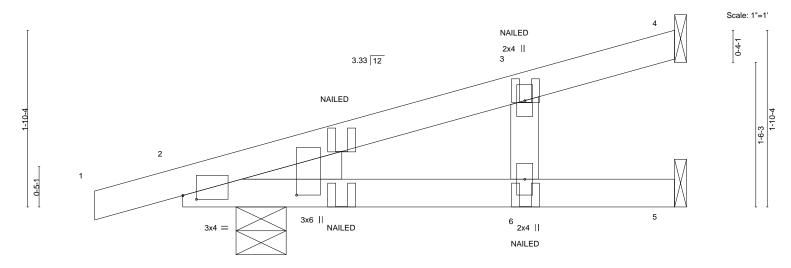


Plate Off	ate Offsets (X,Y) [2:0-1-11,0-0-8], [2:0-0-1,1-2-5]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.02	6-11	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.05	6-11	>999	180			
BCLL	0.0	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.01	4	n/a	n/a			
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-MP						Weight: 15 lb	FT = 20%	

TOP CHORD

BOT CHORD

5-1-15

LUMBER-BRACING-

0-6-11

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

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 4=Mechanical, 2=0-6-5, 5=Mechanical

Max Horz 2=64(LC 4)

Max Uplift 4=-33(LC 8), 2=-81(LC 4), 5=-14(LC 8) Max Grav 4=107(LC 1), 2=338(LC 1), 5=82(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-70, 5-7=-20 Concentrated Loads (lb)

Vert: 6=-3(B) 11=-0(F)



Structural wood sheathing directly applied or 5-1-15 oc purlins.

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

October 8,2021

RELEASE FOR CONSTRUCTION



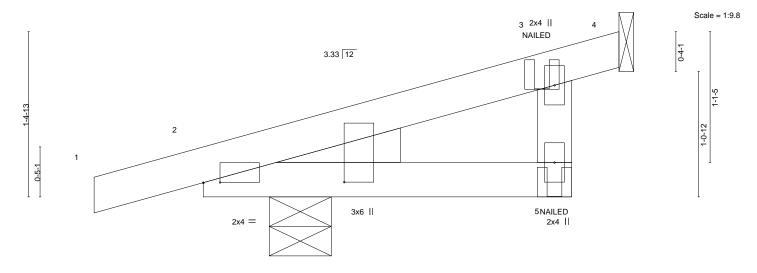
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVESS1 2955860 CJ3 Roof Special Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc. LEE'S SUMMIT. MISSOURI 8.430 s Aug 16 2021 MTek Industries, Irc. Thu Oct 7/11/09/53/2021 Page 1 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-qGIZLudjc3ZD_0waAQrmX0. Ek. Uch 4/1/25 bc/ Azy dgl 8 Builders FirstSource (Valley Center), Valley Center, KS - 67147, 3-1-7 0-11-1



0-6-11 2-6-12 Plate Offsets (X,Y)--[2:0-1-11,0-0-0], [2:0-0-1,1-2-5] LOADING (psf) SPACING-**PLATES** GRIP CSI. DEFL. in (loc) I/def L/d Plate Grip DOL TCLL 25.0 1.15 TC 0.09 Vert(LL) -0.00 10 >999 240 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.07 Vert(CT) -0.01 10 >999 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 n/a 4 n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MP Weight: 11 lb

BRACING-

TOP CHORD

BOT CHORD

3-1-7

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 4=Mechanical, 2=0-6-5

Max Horz 2=48(LC 21)

Max Uplift 4=-26(LC 8), 2=-72(LC 4) Max Grav 4=101(LC 1), 2=274(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.

0-6-11

- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-70, 5-6=-20 Concentrated Loads (lb) Vert: 5=-9(B)



Structural wood sheathing directly applied or 3-6-4 oc purlins.

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

October 8,2021



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES2 2955860 CJ4 Jack-Open LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Opt 71110964.2021 Rage 2 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-ITJyYEdMNMh4cAVmk7M?4E NG uph(X)/7. Sylbjky gil 7 8.430 s Aug 16 2021 MiTek Industries, Irc. Builders FirstSource (Valley Center), Valley Center, KS - 67147,

3-4-3

Scale = 1:12.9 5.15 12 4x6 =4x8 ||

Plate Offsets (X,Y)--[2:0-0-0,0-1-13], [2:0-2-10,0-7-8] LOADING (psf) SPACING-(loc) L/d **PLATES** GRIP CSI. DEFL. in I/defl 25.0 Plate Grip DOL 240 TCLL 1.15 TC 0.17 Vert(LL) -0.01 5 >999 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.14 Vert(CT) -0.01 5 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.01 3 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MP Weight: 11 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x6 SPF No.2

REACTIONS. (size) 3=Mechanical, 2=0-6-13, 4=Mechanical

Max Horz 2=63(LC 12)

Max Uplift 3=-33(LC 12), 2=-43(LC 12), 4=-8(LC 1) Max Grav 3=51(LC 1), 2=313(LC 1), 4=29(LC 3)

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

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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

0-8-14 0-8-14

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

0-10-4

- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DE LA COMPANION DE 2955860 CJ5 Jack-Open LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Ort 7.11/0954/2021 Rage 1 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-ITJyYEdMNMh4cAV nk7M?4E Mb lyh(X)/7.Sylbjky (gl.7 8.430 s Aug 16 2021 MiTek Industries, Irc. Builders FirstSource (Valley Center), Valley Center, KS - 67147,

4-8-4

Scale = 1:15.7 3 5.15 12 0-6-15 4x6 =4x8 || 0-8-14

Plate Off	Plate Offsets (X,Y) [2:0-0-0,0-1-9], [2:0-2-10,0-7-8]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.01	4-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	4-8	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-AS						Weight: 14 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEDGE Left: 2x6 SPF No.2

REACTIONS.

(size) 3=Mechanical, 2=0-6-13, 4=Mechanical

Max Horz 2=84(LC 12)

Max Uplift 3=-53(LC 12), 2=-46(LC 12)

Max Grav 3=102(LC 1), 2=351(LC 1), 4=60(LC 3)

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

0-10-4

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-4 to 3-4-10, Exterior(2R) 3-4-10 to 4-7-8 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

0-8-14

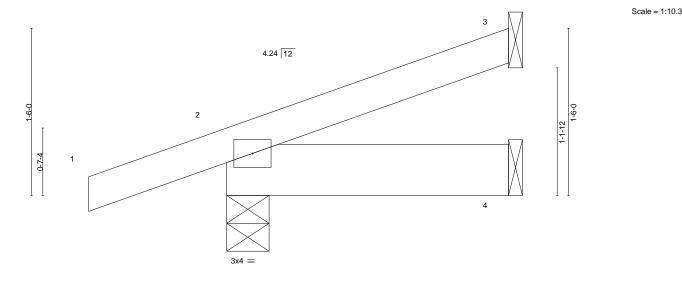
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) 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.



October 8,2021



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER F6894 2955860 CJ6 Jack-Open 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc. LEE'S SUMMIT. MISSOURI 8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Opt 711 0665 2021 Rage 1 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-mftKmae_8gpxEJ_yIntEdRGZ5nBh_AdYe5sFpyyd16 Builders FirstSource (Valley Center), Valley Center, KS - 67147, 1-2-14 2-6-5



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x6 SPF No.2

REACTIONS. 3=Mechanical, 2=0-4-9, 4=Mechanical

Max Horz 2=53(LC 8)

Max Uplift 3=-24(LC 12), 2=-68(LC 8)

Max Grav 3=58(LC 1), 2=219(LC 1), 4=48(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 2-6-5 oc purlins.

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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES5 2955860 CJ7 Jack-Open

Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Aug 16 2021 MTek Industries, Irc. Thu Oct 711,09566,2071 Page ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-ErRizwfcv_xorTf9sYOT9fojpBWV/JfcOznmylingVyCd

Structural wood sheathing directly applied or 2-10-9 oc purlins,

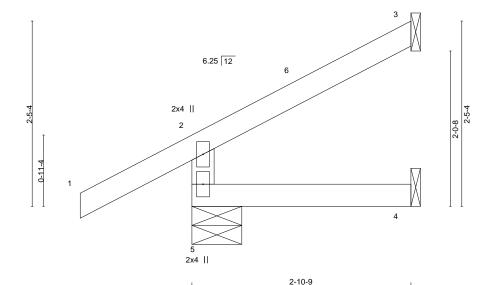
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

2-10-9 2-10-9 1-5-10

Scale = 1:15.1

LEE'S SUMMIT. MISSOURI



2-10-9 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) -0.00 >999 240 197/144 **TCLL** 0.18 4-5 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.05 Vert(CT) -0.00 4-5 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MR Weight: 10 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

> 5=0-7-14, 3=Mechanical, 4=Mechanical (size) Max Horz 5=68(LC 12) Max Uplift 5=-34(LC 12), 3=-42(LC 12) Max Grav 5=267(LC 1), 3=66(LC 1), 4=48(LC 3)

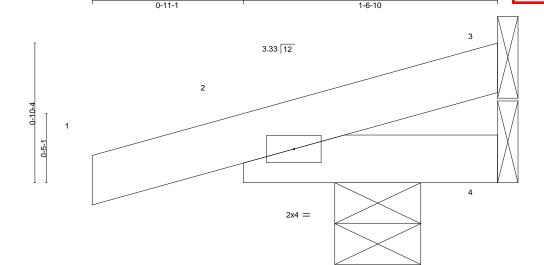
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-5-10 to 1-6-6, Interior(1) 1-6-6 to 2-9-13 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DE LA COMPANION DE 2955860 CJ8 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc. LEE'S SUMMIT. MISSOURI 8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Oct 711/0957 2021 Rage 1 ID:9TfwzKJJ_y34AD7?hPvfOzykJh0-i2?4BGgEgH3fTc ELPGwiis Lvvar (tw. ZdQaF zv. gd 4 Builders FirstSource (Valley Center), Valley Center, KS - 67147, 1-6-10



1-1-0 0-5-10 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) -0.00 240 197/144 **TCLL** 0.08 5 >999 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.08 Vert(CT) -0.00 5 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MP Weight: 5 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

1-6-10

Structural wood sheathing directly applied or 1-6-10 oc purlins.

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

LUMBER-

REACTIONS.

2x4 SPF No.2 TOP CHORD

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

> Max Horz 2=28(LC 8) Max Uplift 3=-12(LC 1), 2=-88(LC 8), 4=-38(LC 1) Max Grav 3=6(LC 8), 2=254(LC 1), 4=23(LC 8)

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

3=Mechanical, 2=0-6-5, 4=Mechanical

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

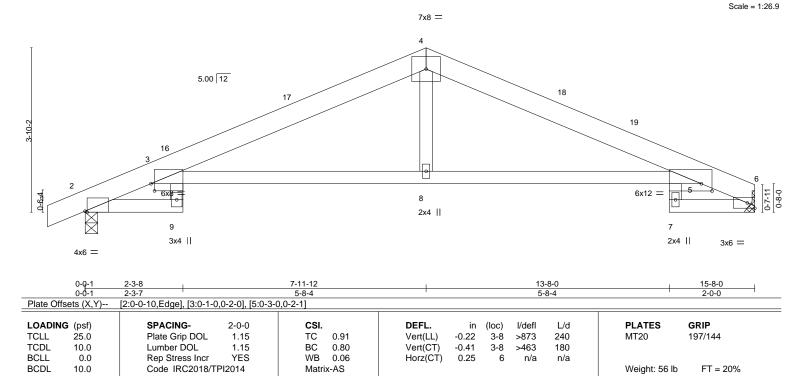


Scale = 1:7.0

October 8,2021



Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY 2955860 D1 **ROOF SPECIAL** LEE'S SUMMIT, MISSOURI Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Irc. Thu Oct 711106 58/2021 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-AEZSOcgsRbBV5npXzzRyE4uti_0 7-11-12 0-10-8 2-3-8 5-8-4 5-8-4



BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEBS 2x4 SPF No.2

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

Max Horz 2=67(LC 12)

Max Uplift 6=-86(LC 13), 2=-106(LC 12) Max Grav 6=710(LC 1), 2=774(LC 1)

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

TOP CHORD 3-14=-320/97, 3-4=-1337/319, 4-5=-1341/329, 5-6=-307/89

BOT CHORD 3-8=-228/1238, 5-8=-228/1238

WFBS 4-8=0/274

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-11-12, Exterior(2R) 7-11-12 to 10-11-12, Interior(1) 10-11-12 to 15-8-0 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) 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
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=106
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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

October 8,2021



RELEASE FOR CONSTRUCTION SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVECES8

LEE'S SUMMIT, MISSOURI

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc. Thu Oct 711106

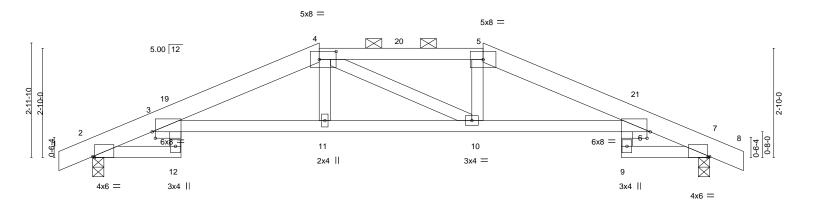
59/2021 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-eQ6rcyhUCvJMixNkXhyAnHQ29O 13-8-8

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-7-8 max.): 4-5.

Rigid ceiling directly applied.

Scale = 1:29.9



10-1-8

4-3-0

Qty

	-	2-3-8	5-10-8			10-1-8				3-8-8	16-0-0	
	<u>'</u>	2-3-8	3-7-0	'		4-3-0		<u>'</u>		3-7-0	2-3-8	'
Plate Offs	ets (X,Y)	[2:0-0-10,Edge], [3	:0-1-0,0-2-0], [4:0-5-	4,0-2-8], [6:0)-1-0,0-2-0],	[7:0-0-10,Edge]						
LOADING	(nsf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip D		TC	0.93	Vert(LL)	-0.18	٠,	>999	240	MT20	197/144
TCDL	10.0	Lumber DO	_ 1.15	BC	0.91	Vert(CT)	-0.34	3-11	>565	180		
BCLL	0.0	Rep Stress	Incr YES	WB	0.05	Horz(CT)	0.25	7	n/a	n/a		
BCDL	10.0	Code IRC2	018/TPI2014	Matr	ix-AS						Weight: 61 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Job

2955860

2x6 SPF No.2 *Except* TOP CHORD

4-5: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x4 SPF No.2

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

Max Horz 2=-44(LC 17)

Truss

D2

2-3-8

Builders FirstSource (Valley Center),

-0-10-8 0-10-8

Truss Type

Hip

Valley Center, KS - 67147,

5-10-8

3-7-0

Max Uplift 2=-110(LC 12), 7=-110(LC 13) Max Grav 2=788(LC 1), 7=788(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. $3-14=-327/98,\ 3-4=-1595/337,\ 4-5=-1522/353,\ 5-6=-1595/337,\ 6-7=-327/101$ TOP CHORD

BOT CHORD 3-11=-250/1517, 10-11=-247/1522, 6-10=-254/1517

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-10-8, Exterior(2E) 5-10-8 to 10-1-8, Exterior(2R) 10-1-8 to 14-2-2, Interior(1) 14-2-2 to 16-10-8 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=110, 7=110.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 8,2021



RELEASE FOR CONSTRUCTION

SUMMIT/STONEY CREEK 110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVEGES9

LEE'S SUMMIT, MISSOURI

Job Reference (optional)

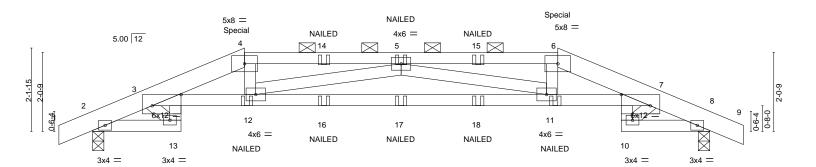
1-7-12

Structural wood sheathing directly applied or 4-7-1 oc purlins, except

8.430 s Aug 16 2021 MiTek Industries, Inc. ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-6dgDpHi6zCRDK5yw5OTPKYzlhbl, 12-0-12 13-8-8

Thu Oct 71110 002021

Scale = 1:29.9



Qty

4-0-12

<u> </u>	1-7-8 2-3-8 3-11 1-7-8 0-8-0 1-7-		8-0-0 4-0-12		12-0-12 4-0-12	-	13-8-8 1-7-12		-7-8
Plate Offsets (X,) [3:0-9-0,0-3-7], [7:0-9-0,	0-3-7]							
LOADING (psf) TCLL 25.0 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 0.62 BC 0.64 WB 0.21	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.23 11-12 -0.47 11-12 0.22 8	I/defI L/ >819 24 >405 18 n/a n/	0	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/T	PI2014	Matrix-S					Weight: 66 I	b FT = 20%

LUMBER-BRACING-

2x6 SPF 2100F 1.8E *Except* TOP CHORD TOP CHORD

4-6: 2x4 SPF No.2 2-0-0 oc purlins (2-11-5 max.): 4-6. **BOT CHORD** 2x4 SPF No.2 *Except* **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

3-7: 2x4 SP 2400F 2.0E WEBS 2x4 SPF No.2

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

Max Horz 2=-32(LC 13)

Max Uplift 2=-231(LC 8), 8=-231(LC 9) Max Grav 2=1093(LC 1), 8=1093(LC 1)

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

TOP CHORD 2-3=-466/133, 3-4=-3185/678, 4-5=-3138/679, 5-6=-3138/677, 6-7=-3185/679,

7-8=-466/127

3-12=-629/3063, 11-12=-857/3764, 7-11=-618/3063 **BOT CHORD** 4-12=-88/552, 5-12=-682/236, 5-11=-682/237, 6-11=-88/552 **WEBS**

Job

2955860

Truss

D3

2-3-8

Builders FirstSource (Valley Center),

-0-10-8 0-10-8

Truss Type

HIP GIRDER

4-0-12

Valley Center, KS - 67147,

1-7-12

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=231, 8=231
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 117 lb down and 96 lb up at 3-11-4, and 117 lb down and 96 lb up at 12-0-12 on top chord. The design/selection of such connection device(s) is the responsibility of others
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-70, 4-6=-70, 6-9=-70, 2-13=-20, 3-7=-20, 8-10=-20



October 8,2021

Continued on page 2



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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or 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 and truss systems, see

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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK 110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER F689

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

D3

| Job Reference (optional) | LEE'S SUMMIT, MISSOURI | 8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Oct 711/01-01-2031 Raps 2 | ID:9TfwzKJJ_y34AD7?hPvfOzykJh0-bpEb0djlkWZ4yEXte5_esiW RCiyyPew2y\$52ytq102

LOAD CASE(S) Standard

2955860

HIP GIRDER

Concentrated Loads (lb)

Vert: 4=-58(B) 6=-58(B) 12=-127(B=-54) 5=-24(B) 11=-127(B=-54) 14=-24(B) 15=-24(B) 16=-54(B) 17=-54(B) 18=-54(B)



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO E1

Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

Common Supported Gable

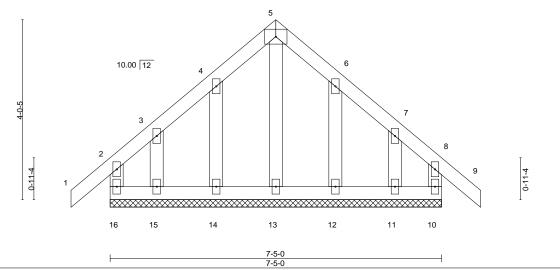
0-10-8

8.430 s Aug 16 2021 MiTek Industries, Ir 2. Thu Oct Z11/04-02/2071 Page ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-3?ozEzkNVqhxZC6JCpVtPV2m6t/Z8u8llsii-j02/y0gi

LEE'S SUMMIT. MISSOURI

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

> Scale = 1:25.8 4x6 =



LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.09 BC 0.04	\	efl L/d n/r 120 n/r 120	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.04 Matrix-R	Horz(CT) 0.00 10 r	n/a n/a	Weight: 36 lb FT = 20%

LUMBER-BRACING-

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

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

except end verticals.

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

REACTIONS. All bearings 7-5-0.

2x4 SPF No.2

Max Horz 16=-114(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

NOTES-

OTHERS

2955860

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-4-8, Exterior(2N) 2-4-8 to 3-8-8, Corner(3R) 3-8-8 to 6-8-8, Exterior(2N) 6-8-8 to 8-3-8 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 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 100 lb uplift at joint(s) 16, 10, 14, 15, 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.



October 8,2021



RELEASE FOR CONSTRUCTION SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES

Job Reference (optional)

LEE'S SUMMIT. MISSOURI

8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Oct 711/04-03/2021 Page ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-XCMLRJk?F7poBYh\ mW06x7\ ws tijbZFO\12xx\ ug

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

Truss Type

COMMON

Truss

E2

-0-10-8 0-10-8 7-0-8 3-8-4 3-4-4

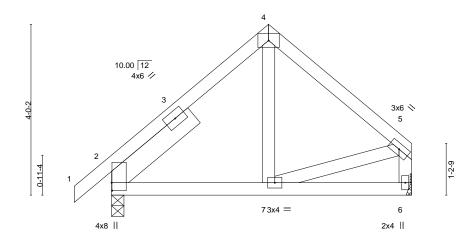
Qty

2

Scale = 1:27.0 4x6 =

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.



7-0-8 3-4-4

BRACING-

TOP CHORD

BOT CHORD

Plate Off	sets (X,Y)	[2:0-2-4,0-0-2]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL) -0.01 7-10 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.14	Vert(CT) -0.01 7-10 >999 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.04	Horz(CT) -0.01 2 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS	, ,	Weight: 33 lb FT = 20%

LUMBER-

Job

2955860

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

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

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

Max Horz 2=104(LC 11)

Max Uplift 2=-47(LC 12), 6=-31(LC 12) Max Grav 2=375(LC 1), 6=306(LC 1)

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

TOP CHORD 4-5=-254/119, 5-6=-286/141

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-8-4, Exterior(2E) 3-8-4 to 6-10-12 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.



October 8,2021



RELEASE FOR CONSTRUCTION

SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVECES2

LEE'S SUMMIT. MISSOURI

Scale = 1:10.5

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc.

B.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Oct 711/0404/2021 Rage 1 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-?Owkffld0RxfpiGhKEYLUL86rPAII/09b40/h7z/y/ghz 2-9-8

Structural wood sheathing directly applied or 2-9-8 oc purlins,

except end verticals, and 2-0-0 oc purlins: 2-3.

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

Valley Center, KS - 67147, 1-10-8 0-11-0

Qty

Truss Type

Half Hip Girder

NAILED 5x8 = 2x4 || 6.00 12 3 9-9-1-4-13 0-7-4 ⁹HUS26 3x6 || 4x6 = NAILED

> 1-10-8 2-9-8 0-7-5

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

Truss

G1

Builders FirstSource (Valley Center),

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL) -0.00 5-8 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0.01 5-8 >999 180	
BCLL 0.0	Rep Stress Incr NO	WB 0.14	Horz(CT) 0.00 1 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 11 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Job

2955860

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 1=0-3-8, 4=Mechanical Max Horz 1=35(LC 28)

Max Uplift 1=-108(LC 8), 4=-73(LC 5) Max Grav 1=778(LC 1), 4=446(LC 1)

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

TOP CHORD 1-2=-480/70

BOT CHORD 1-5=-68/431, 4-5=-58/352 WFBS 2-4=-606/91, 2-5=-80/588

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6x8 =

- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 1=108
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent at 0-10-4 from the left end to connect truss(es) to front face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 4-6=-20 Concentrated Loads (lb)

Vert: 3=-9(B) 5=-9(B) 9=-968(F)

OF MISS SCOTT M. SEVIER PE-2001018807 SSIONAL

October 8,2021



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

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

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



RELEASE FOR CONSTRUCTION SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW

Scale = 1:10.5

DEVELOPMENT SERVICES3

LEE'S SUMMIT, MISSOURI

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc.

Structural wood sheathing directly applied or 2-11-8 oc purlins,

except end verticals, and 2-0-0 oc purlins: 2-3.

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

8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Oct 7.11/01-05 2021 Page 1 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-TaU6s?mFnl3WQs ttx3a1Yg0gp KH5 (NkrgWgaBy Qg)y 2-11-8

1-10-8 NAII FD

Qty

4x6 = 2x4/ 6.00 12 8-9-1-4-13 0-7-4 ⁹HUS28 4 3x6 II NAILED 3x6 || 6x8 =

1-10-8

Plate Off	Plate Offsets (X,Y) [1:0-0-0,0-2-1]											
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.01	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.01	5-8	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-MP						Weight: 14 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Job

2955860

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x8 SP 2400F 2.0E WEBS 2x4 SPF No.2

REACTIONS. (size) 1=0-3-8, 4=Mechanical

Max Horz 1=33(LC 28)

Truss

G2

Builders FirstSource (Valley Center),

Truss Type

Valley Center, KS - 67147,

Half Hip Girder

Max Uplift 1=-155(LC 8), 4=-108(LC 5) Max Grav 1=1116(LC 1), 4=702(LC 1)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 100 lb uplift at joint(s) except (jt=lb) 1=155, 4=108
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Use Simpson Strong-Tie HUS28 (22-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent at 1-0-4 from the left end to connect truss(es) to back face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 4-6=-20

Concentrated Loads (lb)

Vert: 3=-9(F) 5=-7(F) 9=-1548(B)



October 8,2021



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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or 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 and truss systems, see

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



RELEASE FOR CONSTRUCTION

SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVESSES

LEE'S SUMMIT. MISSOURI

Scale = 1:13.2

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc.

8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Opt 711 04 06 2021 Page ID:9TfwzKJJ_y34AD7?hPvfOzykJh0-xm1U4LntY2BN20Q4kfapZmDkAD wydkXJ4kFD7Zy (g.x.

-0-10-8 3-5-12 0-10-8 1-4-6 2-1-6

Qty

Special 3 5x8 = 10.00 12 2x4 || 2-0-14 2 0-11-4 ⁷Special 5 3x4 =

Plate Off	Plate Offsets (X,Y) [3:0-6-0,Edge]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.01	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	ВС	0.12	Vert(CT)	-0.01	5-6	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-MS	, ,					Weight: 15 lb	FT = 20%

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, **BOT CHORD** 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins: 3-4. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 6=64(LC 7)

Max Uplift 6=-54(LC 8), 5=-50(LC 5) Max Grav 6=245(LC 1), 5=152(LC 22)

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

NOTES-

Job

2955860

Truss

G3

Builders FirstSource (Valley Center),

Truss Type

Valley Center, KS - 67147,

Half Hip Girder

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 100 lb uplift at joint(s) 6, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 37 lb down and 81 lb up at 1-4-6 on top chord, and 36 lb down and 22 lb up at 1-4-6 on bottom chord. The design/selection of such connection device(s) is the
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-4=-70, 5-6=-20 Concentrated Loads (lb)

Vert: 3=-4(B) 7=-26(B)



October 8,2021



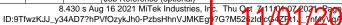
RELEASE FOR CONSTRUCTION SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVECES5

Scale = 1:15.4

LEE'S SUMMIT, MISSOURI

Job Reference (optional)



Structural wood sheathing directly applied or 3-5-12 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-4.

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

Valley Center, KS - 67147, 3-5-12 0-10-8 1-10-9 1-7-3 Special

Qty

4x8 =2x4 || 4 3 10.00 12 2x4 || 2-6-1 0-11-4 7 5 Special 3x4 = 3x4 =

Plate Off	Plate Offsets (X,Y) [3:0-4-0,0-1-4]											
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.01	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	5-6	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MP						Weight: 18 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

1-10-9 1-10-9

LUMBER-

Job

2955860

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

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

Max Horz 6=85(LC 5)

Truss

G4

Builders FirstSource (Valley Center),

Truss Type

Half Hip Girder

Max Uplift 5=-73(LC 5), 6=-59(LC 8) Max Grav 5=136(LC 22), 6=228(LC 1)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 100 lb uplift at joint(s) 5, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 117 lb down and 100 lb up at 1-10-9 on top chord, and 38 lb down and 12 lb up at 1-10-9 on bottom chord. The design/selection of such connection device(s) is
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 5-6=-20

Concentrated Loads (lb)

Vert: 3=-1(F) 7=-2(F)



October 8,2021



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER \$16296

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

MONOPITCH

H1

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc.

8.430 s Aug 16 2021 MiTek Industries, Irc. Thu Oct 711,0108,2021 Rags ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-t99EU1084gS5HJaSZ4cHeBldD0dPJSQBXekKBWX\Q/ 1-5-8

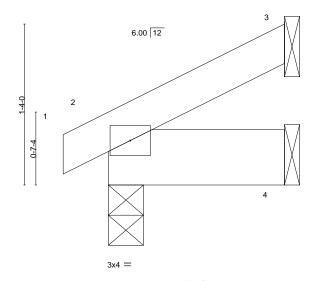
Structural wood sheathing directly applied or 1-5-8 oc purlins.

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

-0-4-8 0-4-8 1-5-8 1-5-8

Scale = 1:9.5

LEE'S SUMMIT. MISSOURI



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00 7 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00 7 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 2 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 5 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2955860

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

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

Max Horz 2=30(LC 12) Max Uplift 2=-8(LC 12), 4=-20(LC 9) Max Grav 2=95(LC 1), 4=63(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 8,2021



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY

Builders FirstSource (Valley Center),

J1

2955860

Valley Center, KS - 67147,

Jack-Open

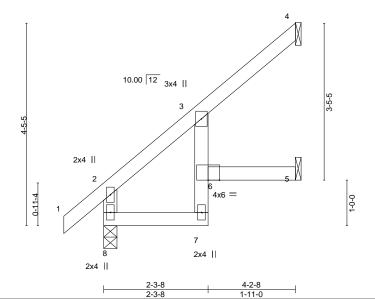
0-10-8

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc.

LEE'S SUMMIT. MISSOURI

B.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Ort 711 04092021 Rage 7 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-MLjdiMpmrzayvTif6n7WBoryuQybl UKnityuy (gdy 4-2-8 2-3-8 1-11-0

Scale = 1:25.3



LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.14	DEFL. Vert(LL) 0.	in (loc)	l/defl >999	L/d 240
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT) -0.0	03 6	>999	180
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-AS	Horz(CT) -0.	02 5	n/a	n/a

PLATES GRIP 197/144 MT20

Weight: 16 lb FT = 20%

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.

8=0-3-8, 4=Mechanical, 5=Mechanical (size) Max Horz 8=140(LC 12)

Max Uplift 4=-70(LC 12), 5=-34(LC 12)

Max Grav 8=261(LC 1), 4=111(LC 19), 5=77(LC 19)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-0-10, Interior(1) 2-0-10 to 4-1-12 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) 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.



October 8,2021



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DE LA COMPANION DE 2955860 J2 Jack-Open

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

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc. 8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Opt 7111011 12021 Raps 1D:9TfwzKJJ_y34AD7?hPvfOzykJh0-lkrN72r0Nbqf9nl1=CA_GpvF7=a/VD;dtb/_pvy_qJs

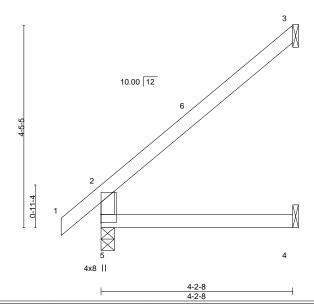
Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

0-10-8 4-2-8

Scale = 1:25.3

LEE'S SUMMIT. MISSOURI



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	0.03	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.03	4-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-AS						Weight: 13 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

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=140(LC 12) Max Uplift 3=-98(LC 12), 4=-7(LC 12)

Max Grav 5=261(LC 1), 3=136(LC 19), 4=76(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-1-12 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) 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 SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES9

LEE'S SUMMIT. MISSOURI

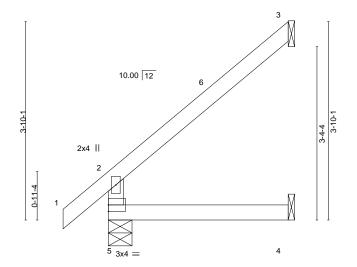
Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc. 8.430 s Aug 16 2021 MTek Industries, Ir .. Thu Opt 71104122071-Page ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-mwPlKOre8uyWmxtEovhDp1TR5dkhEonsFij/Kydy (g

3-5-12 3-5-12 0-10-8

Qty

10

Scale = 1:22.3



3-5-12 SPACING-2-0-0 CSI. DEFL. I/defI L/d (loc) 4-5 Plate Grip DOL 1.15 TC Vert(LL) 0.02 240 0.21 >999 Lumber DOL 1.15 ВС 0.22 Vert(CT) -0.01 4-5

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.02

3

except end verticals.

>999 180 n/a n/a

Structural wood sheathing directly applied or 3-5-12 oc purlins,

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

Weight: 11 lb FT = 20%

PLATES

MT20

GRIP

197/144

LUMBER-

REACTIONS.

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

25.0

10.0

0.0

10.0

Job

2955860

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

(size)

2x4 SPF No.2

Truss

J3

Builders FirstSource (Valley Center),

Truss Type

Jack-Open

Valley Center, KS - 67147,

Max Horz 5=117(LC 12)

Max Uplift 3=-80(LC 12), 4=-8(LC 12)

Rep Stress Incr

Code IRC2018/TPI2014

Max Grav 5=230(LC 1), 3=109(LC 19), 4=62(LC 3)

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

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

YES

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-5-0 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

WB

Matrix-MR

0.00

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 8,2021



RELEASE FOR CONSTRUCTION

SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DE LA COMPANION DE

Scale = 1:18.4

LEE'S SUMMIT. MISSOURI

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc.

Structural wood sheathing directly applied or 3-5-12 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-4.

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

B.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Ort 711/01-13/2021 Page ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-E7z7YksGvC4NO5SQ_dCSLE?eR1_mz myh/sSsk/\d/

Half Hip Valley Center, KS - 67147,

Truss Type

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

Qty

4x8 = 3x6 || 3 10.00 12 2x4 || 2 0-11-4 5 3x4 = 3x4 =

1-8-14	3-5-12
1-8-14	1-8-14

BRACING-

TOP CHORD

BOT CHORD

Plate Offs	sets (X,Y)	[3:0-4-0,0-1-4]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.01	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	5-6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MP						Weight: 20 lb	FT = 20%

LUMBER-

WEBS

Job

2955860

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

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

Max Horz 6=100(LC 11)

Truss

J4

Builders FirstSource (Valley Center),

Max Uplift 5=-40(LC 9), 6=-27(LC 12), 4=-10(LC 8) Max Grav 5=113(LC 19), 6=226(LC 1), 4=27(LC 1)

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

2-6=-173/256, 3-6=-252/107 WEBS

2x4 SPF No.2

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-6-12, Exterior(2E) 2-6-12 to 3-4-0 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



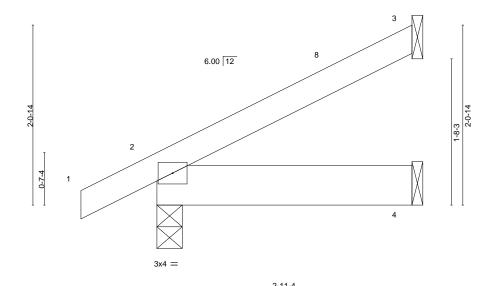
October 8,2021



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY 2955860 J5 Jack-Open LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Opt 71110114/2021 Rage 1 ID:9TfwzKJJ_y34AD7?hPvfOzykJh0-iJWWI4tugWCE0E 1cvKjhuSypeRageatwyZEIPAyog1p 8.430 s Aug 16 2021 MiTek Industries, Irc. Builders FirstSource (Valley Center), Valley Center, KS - 67147, 2-11-4

2-11-4

Scale = 1:13.3



			2-11-4		
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.08 BC 0.05	DEFL. in Vert(LL) -0.00 Vert(CT) -0.00	(loc) I/defl L/d 7 >999 240 4-7 >999 180	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-MP	Horz(CT) -0.00	3 n/a n/a	Weight: 10 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=66(LC 12)

Max Uplift 3=-35(LC 12), 2=-26(LC 12), 4=-2(LC 12) Max Grav 3=74(LC 1), 2=200(LC 1), 4=59(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.

0-10-8

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



Structural wood sheathing directly applied or 2-11-4 oc purlins.

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

October 8,2021



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DE LA COMPANION DE 2955860 J6 Jack-Open

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

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc. 8.430 s Aug 16 2021 MiTek Industries, Ir 2. Thu Qpt 711 015 2021 Rass ID:9TfwzKJJ_y34AD7?hPvfOzykJh0-AV4uyQuXRpK5dOcy72EwRft_Q_gRt7b8pxcyyqdg

Structural wood sheathing directly applied or 2-7-3 oc purlins,

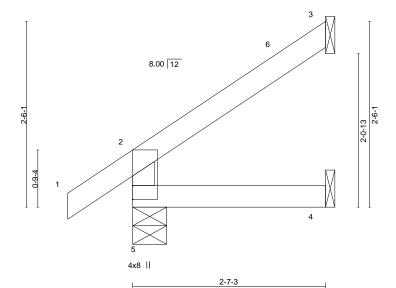
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

2-7-3 2-7-3 0-10-8

Scale = 1:15.5

LEE'S SUMMIT. MISSOURI



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) -0.00 4-5 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) -0.00 4-5 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR		Weight: 8 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 5=0-5-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=73(LC 12)

Max Uplift 5=-10(LC 12), 3=-47(LC 12), 4=-2(LC 12) Max Grav 5=194(LC 1), 3=73(LC 19), 4=44(LC 3)

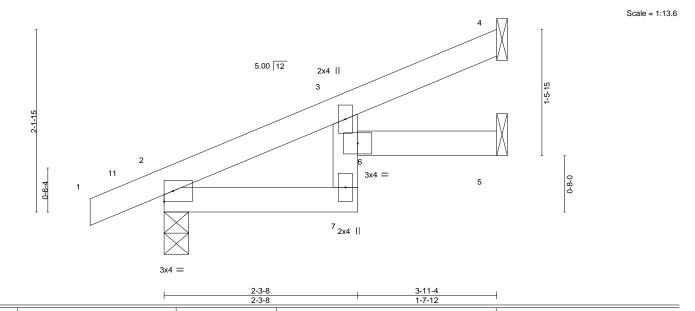
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-6-7 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DE LA COMPANION DE 2955860 J7 Jack-Open 5 LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Opt 711 01 17 2021 Rass ID:9TfwzKJJ_y34AD7?hPvfOzykJh0-7uCeN5vnyRaptimBa HOW4Al He MyxtyCX Q./?y/\An Builders FirstSource (Valley Center), Valley Center, KS - 67147, -0-10-8 2-3-8 0-10-8 1-7-12



LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

25.0

10.0

0.0

10.0

BRACING-

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-11-4 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

PLATES

Weight: 12 lb

MT20

GRIP

197/144

FT = 20%

I/defI

>999

n/a

(loc)

6

6 >999

5

-0.01

-0.02

0.01

L/d

240

180

n/a

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

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Horz 2=71(LC 12)

Max Uplift 4=-34(LC 12), 2=-35(LC 12), 5=-12(LC 12) Max Grav 4=94(LC 1), 2=243(LC 1), 5=74(LC 1)

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

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-1, Interior(1) 2-1-1 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

CSI.

TC

ВС

WB

Matrix-MR

0.12

0.19

0.00

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

2-0-0

1.15

1.15

YES

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

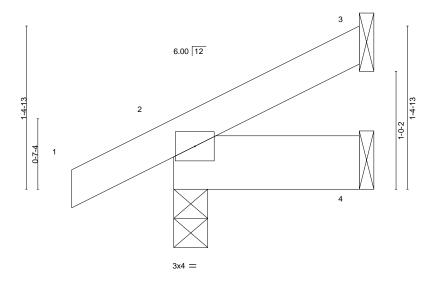




RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER \$160€\$4 2955860 J8 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc. LEE'S SUMMIT. MISSOURI 8.430 s Aug 16 2021 MiTek Industries, Irc. Thu Oct 711 0 18 2021 Page 1 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-b4m0bRwPjkig JsKN8Ao 2 ji/12 leoti Beszk VoA Builders FirstSource (Valley Center), Valley Center, KS - 67147,



Scale = 1:9.9



						1-7	-2					
LOADING	G (psf) 25.0		·0-0 .15	CSI.	0.05	DEFL. Vert(LL)	in -0.00	(loc)	l/defl >999	L/d 240	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL 1	.15	BC	0.01	Vert(CT)	-0.00	7	>999	180	20	1077111
BCLL BCDL	0.0 10.0	Rep Stress Incr Y Code IRC2018/TPI20	′ES 14	WB Matri	0.00 x-MP	Horz(CT)	0.00	3	n/a	n/a	Weight: 6 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

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=43(LC 12)

Max Uplift 3=-18(LC 12), 2=-23(LC 12), 4=-1(LC 12) Max Grav 3=36(LC 1), 2=149(LC 1), 4=30(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



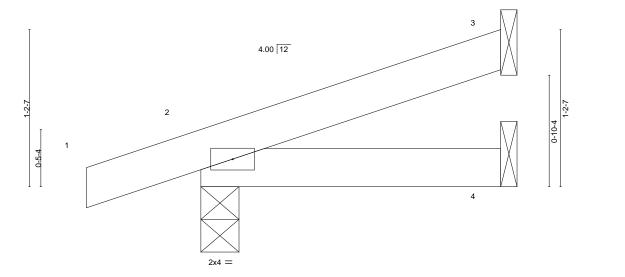
Structural wood sheathing directly applied or 1-7-2 oc purlins.

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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DE LA COMPANION DE 2955860 J9 Jack-Open Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Oct 7/11/04/19/2071/Rage 1/1D:9TfwzKJJ_y34AD7?hPvfOzykJh0-3HKPonx1U2qX6pvaitJsbVFnpsN9 kr 03/v/24x/vg.kg LEE'S SUMMIT. MISSOURI Builders FirstSource (Valley Center), Valley Center, KS - 67147, 2-3-8 2-3-8 0-10-8



			2-3-8	<u> </u>
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) -0.00 7 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) -0.00 7 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 7 lb $FT = 20\%$

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

Max Horz 2=41(LC 8)

Max Uplift 3=-23(LC 12), 2=-50(LC 8) Max Grav 3=61(LC 1), 2=174(LC 1), 4=39(LC 3)

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

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 2-3-8 oc purlins.

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

Scale = 1:8.8

October 8,2021



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DE LA COMPANION DE 2955860 J10 Jack-Open

Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Ir s. Thu Opt 7110092021-Rags 1 ID:9TfwzKJJ_y34AD7?hPvfOzykJh0-MLjdiMpmrzayvT86n7WBC_K DyDU Kinlyujy (gdy 8.430 s Aug 16 2021 MiTek Industries, Irc.

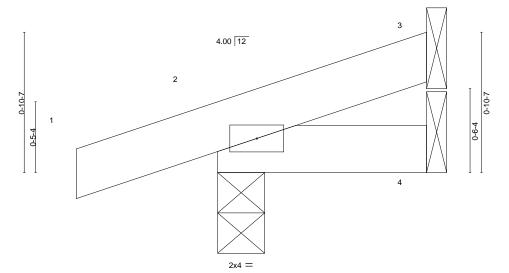
Structural wood sheathing directly applied or 1-3-8 oc purlins.

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

LEE'S SUMMIT. MISSOURI

Scale = 1:7.1

0-10-8 1-3-8



1-3-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) -0.00 >999 240 197/144 **TCLL** 0.05 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.01 Vert(CT) -0.00 >999 180 Horz(CT) **BCLL** 0.0 Rep Stress Incr YES WB 0.00 0.00 2 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MP Weight: 4 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=30(LC 8)

Max Uplift 3=-10(LC 12), 2=-49(LC 8)

Max Grav 3=26(LC 1), 2=140(LC 1), 4=20(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 8,2021



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY 2955860 J11 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc. LEE'S SUMMIT. MISSOURI 8.430 s Aug 16 2021 MiTek Industries, Ir s. Thu Opt 711 0h 10/2021 Rage ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-qYH?viqOcHipXcirgUffkcNs3q Ghikul? PDR 22-Vo Builders FirstSource (Valley Center), Valley Center, KS - 67147, 1-10-3

1-10-3

1-10-3

5.00 12 2 0-11-1 0-6-4

LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) -0.00 >999 240 197/144 **TCLL** 0.05 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.02 Vert(CT) -0.00 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MP Weight: 6 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

3x4 =

LUMBER-

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

REACTIONS. 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=39(LC 12)

Max Uplift 3=-22(LC 12), 2=-27(LC 8)

Max Grav 3=49(LC 1), 2=158(LC 1), 4=32(LC 3)

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

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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

0-10-8

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 1-10-3 oc purlins.

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

Scale = 1:9.3

October 8,2021



RELEASE FOR CONSTRUCTION SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES8

LEE'S SUMMIT, MISSOURI

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc.

B.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Oct 711/01-20/2021 Page 1 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-XTun07xfFMyO 9UmGbq 7jc Ysj 6lin lyezzy VoA

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

Truss Type

Half Hip Supported

-0-10-8 0-10-8 9-0-0

Truss

K1

8-10-0

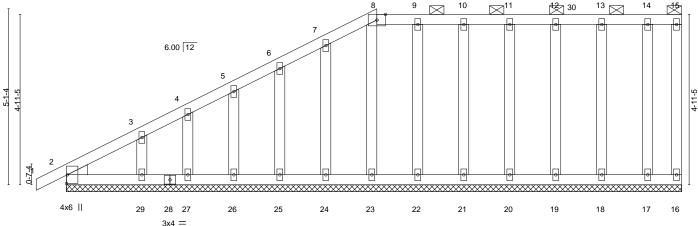
Qty

Scale = 1:33.4 4x6 = ¹³ 🖂 10 30 14 \bowtie

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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-15.

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



			17-10-0	
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.11	DEFL. in (loc) l/defl L/d Vert(LL) 0.00 1 n/r 120	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.06 WB 0.04	Vert(CT) 0.00 1 n/r 120 Horz(CT) -0.00 16 n/a n/a	1077111
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 98 lb FT = 20%

17-10-0

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

OTHERS WEDGE

Left: 2x4 SPF No.2

REACTIONS. All bearings 17-10-0.

Max Horz 2=175(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 16, 2, 23, 24, 25, 26, 27, 29, 22, 21, 20, 19, 18, 17 Max Grav All reactions 250 lb or less at joint(s) 16, 2, 23, 24, 25, 26, 27, 29, 22, 21, 20, 19, 18, 17

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

TOP CHORD 2-3=-272/149

NOTES-

Job

2955860

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-2-4, Exterior(2N) 2-2-4 to 9-0-0, Corner(3R) 9-0-0 to 12-0-0, Exterior(2N) 12-0-0 to 17-8-4 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) 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.
- Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 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 100 lb uplift at joint(s) 16, 2, 23, 24, 25, 26, 27, 29, 22, 21, 20, 19, 18, 17.
- 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.



October 8,2021



RELEASE FOR CONSTRUCTION

SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 9

LEE'S SUMMIT, MISSOURI

Job Reference (optional)

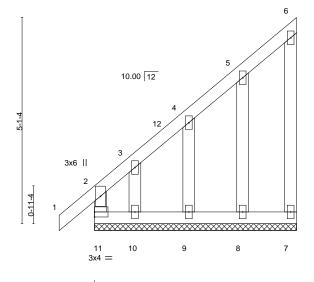
8.430 s Aug 16 2021 MiTek Industries, Irc.

8.430 s Aug 16 2021 MiTek Industries, Ir z. Thu Opt 7,11 04212021-Rage / ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-?fR9DTyH0f4FLJ; ypILKgwl_q606krfXsOW96yVgA

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

Qty

Scale = 1:28.5



LOADING	(psf)	SPACING- 2-	-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1	.15	TC	0.21	Vert(LL)	0.00	2	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL 1	.15	BC	0.18	Vert(CT)	0.00	2	n/r	120		
BCLL	0.0	Rep Stress Incr Y	'ES	WB	0.05	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI201	14	Matri	x-R						Weight: 28 lb	FT = 20%

BOT CHORD

LUMBER-BRACING-

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

OTHERS 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.

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

REACTIONS. All bearings 5-0-0. (lb) -Max Horz 11=178(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 11, 7, 8, 9 except 10=-156(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 11, 7, 8, 9, 10

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

2-11=-358/184, 2-3=-520/316, 3-4=-333/219 TOP CHORD

WEBS 3-10=-179/282

NOTES-

Job

2955860

Truss

K2

Builders FirstSource (Valley Center),

Truss Type

Valley Center, KS - 67147,

Monopitch Supported Gable

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-4-0, Exterior(2N) 2-4-0 to 4-10-4 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
- 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 1-4-0 oc.
- 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) 11, 7, 8, 9 except (it=lb) 10=156
- 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.



October 8,2021



RELEASE FOR CONSTRUCTION SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICESO

LEE'S SUMMIT, MISSOURI

Scale = 1:54.2

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Ort 711 01-23 2021 - 8 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-x2Zve9_YYHLyb DLxjNoILQLG3kilcE0 TyDDy 8.430 s Aug 16 2021 MiTek Industries, Ir c.

UMIWIT., 23/2021-8age

14-7-11 10-10-10 3-9-1

Qty

3x4 📏

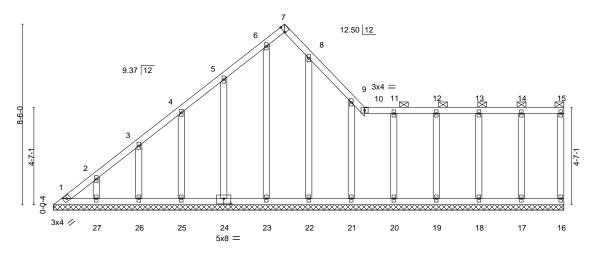


Plate Offsets	(X,Y)	[7:0-3-8,Edge], [24:0-4-0	,0-3-0]									
LOADING (p	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25	5.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10	0.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL (0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	-0.00	16	n/a	n/a		
BCDL 10	0.0	Code IRC2018/TF	PI2014	Matri	x-S						Weight: 119 lb	FT = 20%

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 10-15. 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 24-0-3.

Max Horz 1=246(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 16, 17, 18, 19, 20, 21, 22, 23, 25, 26, 27 except

Truss Type

GABLE

Valley Center, KS - 67147,

24=-110(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27

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

TOP CHORD 1-2=-259/211

NOTES-

Job

2955860

Truss

L1

Builders FirstSource (Valley Center),

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-1 to 3-5-1, Interior(1) 3-5-1 to 10-10-10, Exterior(2R) 10-10-10 to 14-0-3, Interior(1) 14-0-3 to 23-10-7 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) 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) 1, 16, 17, 18, 19, 20, 21, 22, 23, 25, 26, 27 except (jt=lb) 24=110.
- 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.



October 8,2021

RELEASE FOR CONSTRUCTION

SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVECES1

LEE'S SUMMIT, MISSOURI

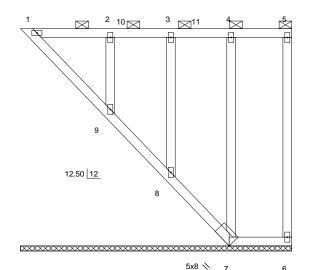
Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Ir s. Thu Opt 711104242071 Rage 1 ID:9TfwzKJJ_y34AD7?hPvfOzykJh0-PE7HrV?AJaTpCrpXVRv112SiT47k4) X p7JAPV VgAj

8-11-11

Qty

Scale = 1:38.1



	6-10-14	8-11-11
Г	6-10-14	2-0-14

LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.42 BC 0.05	DEFL. Vert(LL) Vert(CT)	in (loc) n/a - n/a -	l/defl n/a n/a	L/d 999 999	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.13 Matrix-P	Horz(CT) -0	0.00 6	n/a	n/a	Weight: 47 lb FT = 20%

BRACING-LUMBER-

Truss Type

GABLE

Valley Center, KS - 67147,

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

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

TOP CHORD BOT CHORD

2-0-0 oc purlins: 1-5, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 1-9.

REACTIONS. All bearings 8-11-11.

Max Horz 1=176(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 8, 9 except 7=-108(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 6, 7, 8, 9

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

NOTES-

Job

2955860

Truss

L2

Builders FirstSource (Valley Center),

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-4-2 to 3-4-2, Exterior(2) 3-4-2 to 5-9-15, Corner(3) 5-9-15 to 8-9-15 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) 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) 1, 6, 8, 9 except (it=lb) 7=108.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 8, 9.
- 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.



October 8,2021



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES2 2955860 L3 **GABLE** LEE'S SUMMIT. MISSOURI

Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Irc. Thu Oct 711/01-25/2071 Rage 1 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-uQhg3r?o4ubgqxNj 28QGqm\ jGt 2gh VJhSh\/kJ2\\qfe

3x4 \

11

Scale = 1:49.6

17-11-12 10-3-5 7-8-8

4x6 //

6 5 9.37 12 20 12.50 12 21 8

17-11-12

14

13

12

15

_Plate Off	sets (X,Y)	[6:0-3-2,0-2-4]										
LOADIN	\(\(\)		2-0-0	CSI.	0.05	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matri	x-S						Weight: 83 lb	FT = 20%

LUMBER-BRACING-

19 18

3x4 =

17

16

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

REACTIONS. All bearings 17-11-12.

Max Horz 1=183(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 10, 15, 16, 17, 19 except 13=-114(LC 13), 12=-115(LC 13),

11=-104(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 10, 14, 15, 16, 17, 19, 13, 12, 11

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

3x4 /

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-1 to 3-5-1, Interior(1) 3-5-1 to 10-3-5, Exterior(2R) 10-3-5 to 13-3-5, Interior(1) 13-3-5 to 17-7-11 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) All plates are 2x4 MT20 unless otherwise indicated.
- 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, 10, 15, 16, 17, 19 except (it=lb) 13=114, 12=115, 11=104,
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 8,2021



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY DE SER PROPERTY DEVELOPMENT SER PROPERTY DEVE 2955860 L4 **GABLE**

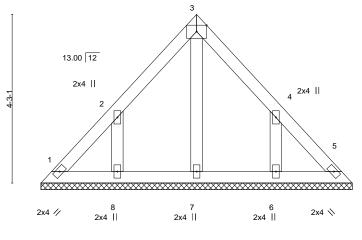
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc. 8.430 s Aug 16 2021 MTek Industries, Ir :. Thu Ort 711 0426 2027 Page ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-MdF2GA0QrCjXS4yw;sxVN_2trHrr?W R gr 6/107/10/20

LEF'S SUMMIT, MISSOURI

3-11-2 3-11-2

> Scale = 1:29.1 4x6 =



7-10-4 7-10-4

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	ВС	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-P	` ´					Weight: 29 lb	FT = 20%

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 7-10-4.

Max Horz 1=93(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-134(LC 12), 6=-134(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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

NOTES-

LUMBER-

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 3-11-2, Exterior(2R) 3-11-2 to 6-11-2, Interior(1) 6-11-2 to 7-6-4 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) 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=134, 6=134,
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



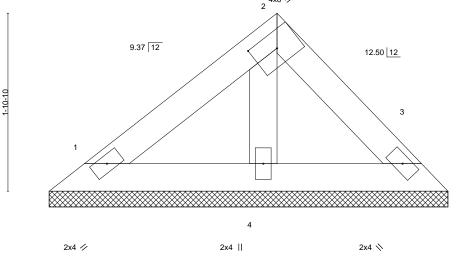
October 8,2021



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DE LA COMPANION DE 2955860 L5 Lay-In Gable LEE'S SUMMIT. MISSOURI

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Ir 2. Thu Ort 7.11/01-27 2021 Page ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-qppQUW12cVrO3EW AZSkwB 1X 6668 v5r/myy lq/ Builders FirstSource (Valley Center), Valley Center, KS - 67147,

2-4-15 1-9-11 2 4x6 // Scale = 1:12.2



4-2-10

Plate Offsets (X,Y) [2:0-3-2,0-2-0]											
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) n/a - n/a 999 MT20 197/144								
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07									
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) n/a - n/a 999								
BCLL 0.0	Rep Stress Incr YES	WB 0.01	Horz(CT) 0.00 3 n/a n/a								
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Weight: 12 lb FT = 20%								

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

(size) 1=4-2-10, 3=4-2-10, 4=4-2-10

Max Horz 1=37(LC 9)

Max Uplift 1=-19(LC 12), 3=-19(LC 13) Max Grav 1=96(LC 1), 3=88(LC 1), 4=127(LC 1)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-2-10 oc purlins.

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





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DE LA COMPANION DE 2955860 M1 HALF HIP GIRDER LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc. Thu Oct 7111045 zzSP79640W_v? 284071 Page Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-I?Nohs2hNpzFhO5 kGzzSP7 64 DW 4-11-8

3-11-14

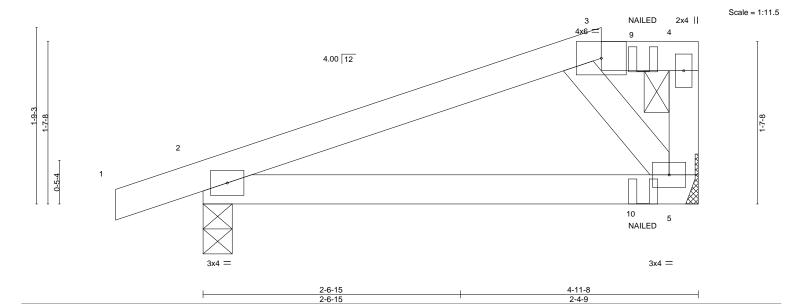


Plate Off	sets (X,Y)	[3:0-0-0,0-0-0]			
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) -0.02 5-8 >999 240 MT20 197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.21	Vert(CT) -0.05 5-8 >999 180	
BCLL	0.0	Rep Stress Incr NO	WB 0.02	Horz(CT) 0.00 2 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MP	Weight: 16 lb FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=56(LC 28) Max Uplift 2=-74(LC 4), 5=-66(LC 4) Max Grav 2=291(LC 1), 5=293(LC 1)

0-10-8

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 100 lb uplift at joint(s) 2, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 5-6=-20

Concentrated Loads (lb)

Vert: 9=-30(B) 10=-59(B)



Structural wood sheathing directly applied or 4-11-8 oc purlins,

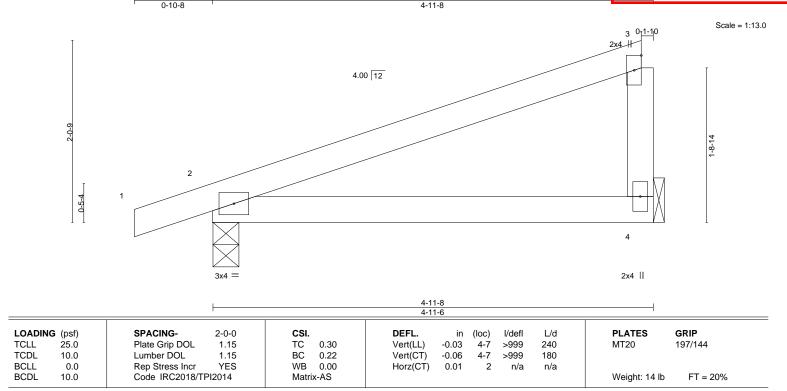
except end verticals, and 2-0-0 oc purlins: 3-4.

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

October 8,2021



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES6 2955860 M2 MONOPITCH 5 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc. LEE'S SUMMIT. MISSOURI 8.430 s Aug 16 2021 MiTek Industries, Irc. Thu Oct 7,1104292071-Rags 1 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-mCwAvC2J8756JYgVl-_UC?cgl-KU cylbg/Nf K/Rg/\quad qala Builders FirstSource (Valley Center), Valley Center, KS - 67147, 4-11-8



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

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

Max Horz 2=73(LC 11)

Max Uplift 4=-43(LC 12), 2=-69(LC 8) Max Grav 4=211(LC 1), 2=283(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-9-12 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) 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.



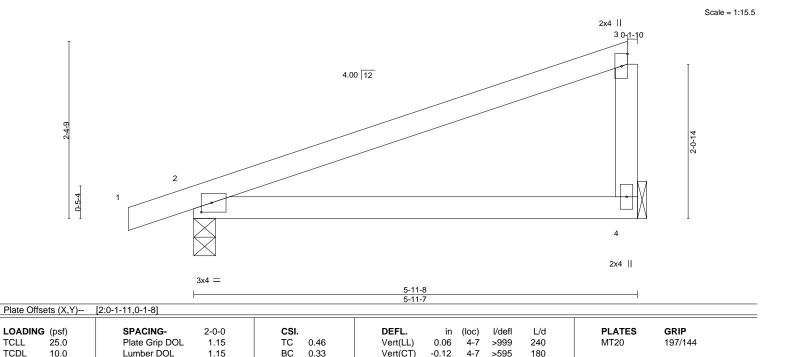
Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

October 8,2021



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVECES7 2955860 М3 MONOPITCH 2 LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc. 8.430 s Aug 16 2021 MiTek Industries, Irc. Thu Oct Z11104302021 Page ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-EOUZ6Y3xvQDzwiF\u00e4rh?RXqC\u00e5h\u00e24\u00e5b\u00e44/zzy\u00e40 Builders FirstSource (Valley Center), Valley Center, KS - 67147, 5-11-8 5-11-8 -0-10-8



Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.01

n/a

n/a

Rigid ceiling directly applied.

LUMBER-

REACTIONS.

BCLL

BCDL

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

0.0

10.0

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

Max Horz 2=87(LC 11)

Max Uplift 4=-53(LC 12), 2=-76(LC 8) Max Grav 4=257(LC 1), 2=327(LC 1)

Rep Stress Incr

Code IRC2018/TPI2014

0-10-8

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-9-12 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

WB

Matrix-AS

0.00

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

YES

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



FT = 20%

Weight: 17 lb

Structural wood sheathing directly applied, except end verticals.

October 8,2021





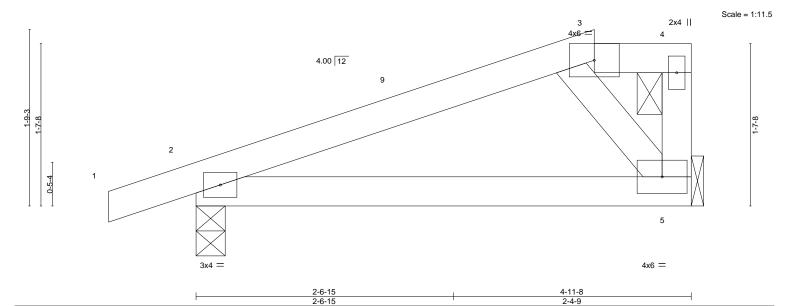
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or 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 and truss systems, see

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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES8 2955860 M4 HALF HIP Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc. LEE'S SUMMIT, MISSOURI 8.430 s Aug 16 2021 MTek Industries, Irc. Thu Ort 711/01-31/2021 Page ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-ia2xJu4ZfkLq sqtPPXgH1lh CJRBGjZ jip2VM q Builders FirstSource (Valley Center), Valley Center, KS - 67147, 4-11-8 0-10-8 3-11-13



Tiate Offices (X,	[0.0 0 0,0 0 0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.22	Vert(LL) -0.02 5-8 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) -0.04 5-8 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00 2 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 16 lb FT = 20%

LUMBER-

2x4 SPF No.2 TOP CHORD

Plate Offsets (X V)-- [3:0-0-0 0-0-0]

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

TOP CHORD Structural wood sheathing directly applied, except

2-0-0 oc purlins: 3-4. **BOT CHORD** Rigid ceiling directly applied.

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

Max Horz 2=56(LC 11)

Max Uplift 2=-71(LC 8), 5=-39(LC 8) Max Grav 2=283(LC 1), 5=211(LC 1)

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

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-13, Exterior(2E) 3-11-13 to 4-9-12 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 8,2021



RELEASE FOR CONSTRUCTION

SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES9 LEE'S SUMMIT, MISSOURI

Thu Opt 7110/322047 -4z62vi Fis nAviji3ilZb1Zb Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc. 32,2021 Rag ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-AncJXE5BQ2ThA?P4z62vcFls Ih/A

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

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

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

Truss Type

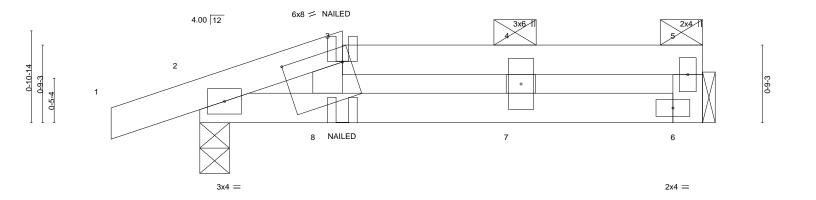
1-4-14

Half Hip Girder

3-2-0 1-9-2 1-9-8

2-0-0 oc purlins: 3-5.

Scale = 1:11.4



Qty

			1-4-1	4	1	3-2-0					4-11-8	5-0 _Γ 0
		ı	1-4-1	4	1	1-9-2			1		1-9-8	0-0-8
Plate Offse	ets (X,Y)	[3:0-7-0,0-1-12]										
LOADING	i (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0	.21	Vert(LL)	-0.05	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0	.29	Vert(CT)	-0.06	7-8	>914	180		
BCLL	0.0	Rep Stress Incr	NO	WB 0	.02	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matrix-M	1P	, ,					Weight: 13 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Job

2955860

2x4 SPF No.2 TOP CHORD

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

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

Max Horz 2=27(LC 4)

Truss

0-10-8

M5

Max Uplift 2=-60(LC 4), 6=-34(LC 5) Max Grav 2=226(LC 1), 6=189(LC 1)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 100 lb uplift at joint(s) 2, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-70, 3-5=-70, 6-9=-20

Concentrated Loads (lb)

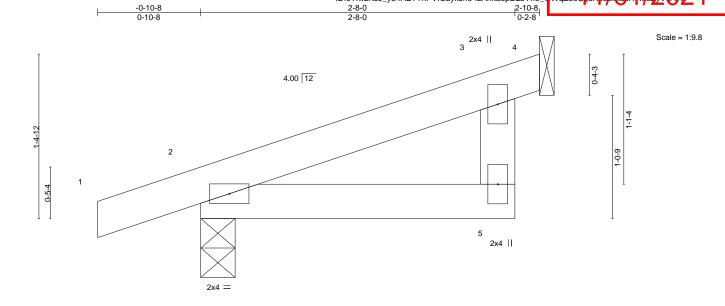
Vert: 3=40(F) 8=39(F)



October 8,2021



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY DE LA COMPANION DE 2955860 M6 Monopitch LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc. 8.430 s Aug 16 2021 MiTek Industries, Irc. Thu Ort 7/11/01/33/2071 Rage / ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-fzAhka6pBLbYn9_GWqZ89S;3X;38/ftasH IgaZ/VAJY Builders FirstSource (Valley Center), Valley Center, KS - 67147,



		<u> </u>	2-8-0 2-8-0		2-10-8 0-2-8
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.10 BC 0.07 WB 0.00 Matrix-MP	Vert(LL) -0.00 5	oc) I/defl L/d 5-8 >999 240 5-8 >999 180 2 n/a n/a	PLATES GRIP MT20 197/144 Weight: 8 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 4=Mechanical, 2=0-3-8

Max Horz 2=49(LC 8) Max Uplift 4=-30(LC 12), 2=-53(LC 8) Max Grav 4=112(LC 1), 2=197(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-9-12 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 2-10-8 oc purlins.

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

October 8,2021



RELEASE FOR CONSTRUCTION

SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY

LEE'S SUMMIT. MISSOURI

Scale = 1:41.0

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Irc. Thu Oct 711 0133 2021 Rags 1 ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-fzAhka6pBLbYn9_CWqZ89S\?A\6\/fp4\H |9aZ/V\A\V

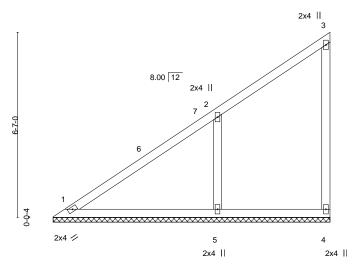
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

Qty

9-10-8



LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.38 BC 0.20	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.10 Matrix-S	Horz(CT) -0.00 4 n/a n/a	Weight: 35 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Job

2955860

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

BOT CHORD 2x4 SPF No.2 WEBS

OTHERS 2x4 SPF No.2

REACTIONS. (size) 1=9-10-2, 4=9-10-2, 5=9-10-2

Truss

V1

Builders FirstSource (Valley Center),

Truss Type

Valley

Valley Center, KS - 67147,

Max Horz 1=221(LC 9)

Max Uplift 4=-43(LC 9), 5=-157(LC 12)

Max Grav 1=215(LC 20), 4=124(LC 19), 5=538(LC 19)

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

TOP CHORD 1-2=-314/230 WEBS 2-5=-411/254

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 9-8-12 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) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=157
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 8,2021



RELEASE FOR CONSTRUCTION Qty SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVECES2 LEE'S SUMMIT. MISSOURI

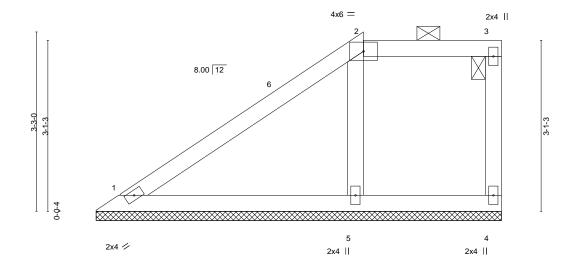
Job Reference (optional)

Valley Center, KS - 67147,

4-10-8

8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Ort 711/01-34/2021 Page ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-79k3yw6RyfjPPJZ\$4X4NigN\0VTVOtADV\g/si62X\d/ 2-6-0

Scale = 1:20.9



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL Vert(LL) 999 197/144 **TCLL** 1.15 TC 0.37 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00

Matrix-P

n/a n/a Weight: 23 lb FT = 20%

BRACING-

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

except end verticals, and 2-0-0 oc purlins: 2-3. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

LUMBER-

BCDL

Job

2955860

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

10.0

REACTIONS. (size) 1=7-4-2, 4=7-4-2, 5=7-4-2

Truss

V2

Builders FirstSource (Valley Center),

Truss Type

Valley

Max Horz 1=100(LC 9)

Max Uplift 1=-20(LC 12), 4=-25(LC 8), 5=-46(LC 12) Max Grav 1=180(LC 1), 4=94(LC 1), 5=334(LC 1)

Code IRC2018/TPI2014

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

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-10-8, Exterior(2E) 4-10-8 to 7-2-12 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) 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) 1, 4, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 8,2021



RELEASE FOR CONSTRUCTION SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW

DEVELOPMENT SER PROPERTY DE SER PROPERTY DEVELOPMENT SER PROPERTY DEVE

LEE'S SUMMIT. MISSOURI

8.430 s Aug 16 2021 MiTek Industries, Ir c. Thu Ort 711 0135 2021 Page ID:9TfwzKJJ_y34AD7?hPVfOzykJh0-bMIS9F74jzrF1T3eeEbcEwHtvl/5/1449lkn/5e2/10/1

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

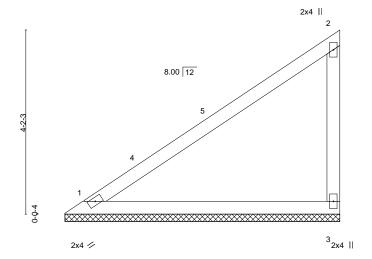
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Ir c.

Qty

Scale = 1:26.2



LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.64	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.34	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 19 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Job

2955860

Truss

V3

Builders FirstSource (Valley Center),

Truss Type

Valley

Valley Center, KS - 67147,

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

WEBS 2x4 SPF No.2

REACTIONS. 1=6-2-14, 3=6-2-14 (size) Max Horz 1=135(LC 9)

Max Uplift 1=-17(LC 12), 3=-75(LC 12) Max Grav 1=254(LC 1), 3=267(LC 19)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 6-1-8 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) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 8,2021



RELEASE FOR CONSTRUCTION SUMMIT/STONEY CREEK \$110/MO AS NOTED FOR PLAN REVIEW

DEVELOPMENT SER F6234

Scale = 1:15.5

LEE'S SUMMIT, MISSOURI

Job Reference (optional)

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

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

except end verticals.

8.430 s Aug 16 2021 MiTek Industries, Ir.s. Thu Opt 711 0h36 2021 SD:9TfwzKJJ_y34AD7?hPVfOzykJh0-3YrqNb8iUGz6e jrCy6m5 2V 95 2 V 10 2 V

Qty

Truss Type

Valley

Valley Center, KS - 67147,

2x4 || 2 8.00 12 0-0-4 3 2x4 || 2x4 /

LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.18 BC 0.10 WB 0.00	DEFL. i Vert(LL) n/ Vert(CT) n/ Horz(CT) 0.0	′a -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	11012(01) 0.0	0 3	II/a	II/a	Weight: 11 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Job

2955860

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

REACTIONS. 1=3-8-14, 3=3-8-14 (size)

Truss

V4

Builders FirstSource (Valley Center),

Max Horz 1=75(LC 11) Max Uplift 1=-12(LC 12), 3=-39(LC 12) Max Grav 1=142(LC 1), 3=149(LC 19)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 8,2021



RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI Offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth. For 4 × 2 orientation, locate plates 0- ½,6" from outside

* Plate location details available in MiTek 20/20 software or upon request.

connector plates.

This symbol indicates the required direction of slots in

edge of truss.

PLATE SIZE

4 × 4

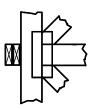
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

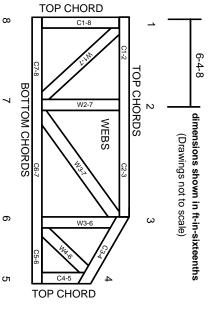
Min size shown is for crushing only

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



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

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

© 2012 MiTek® All Rights Reserved



MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

Ģ

- 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.

œ

Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

9

- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 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 specified.
- 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.
- 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 environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

21. The design does not take into account any dynamic or other loads other than those expressly stated.