

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 09/15/2022 12:16:23

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

Re: 3292676

SUMMIT/HAWTHORN RIDGE #177/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: I54112185 thru I54112249

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193



September 12,2022

Sevier, Scott

,Engineer

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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEB 3256 MMIT, MISSOURI
09/15/22022 2014 2016 00 20 5

 Truss Type
 Qty
 Ply
 SUMMIT/HAWTHORN RIDGE #177/MO

 Hip Girder
 1
 1
 1

 Job Reference (optional)
 Job Reference (optional)

4-8-5

Valley Center, KS - 67147,

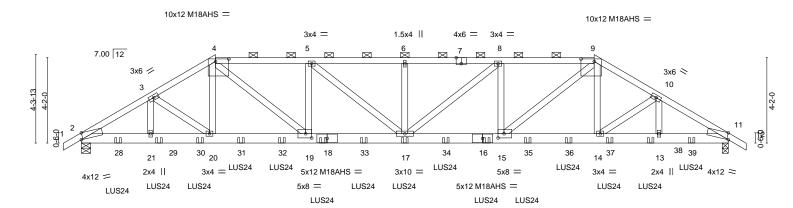
11-1-3

4-6-9

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:36:38 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHI8-Kw6RRfbSO0_CCBVqfCt6Guyy7hPC4GtXsuG4jmyfP87 20-5-13 25-0-7 28-2-6 31-7-0 32-5-8

4-6-9

Scale = 1:56.2



15-9-8

4-8-5

		-4-10 6-6-9	11-1-3		15-9-8		. 2	20-5-13			25-0-7	28-2-6	31-7-0
	' 3-	-4-10 ' 3-1-15	4-6-9		4-8-5	'	1	4-8-5	'		4-6-9	3-1-15	3-4-10
Plate Offse	ets (X,Y)	[2:0-0-15,Edge], [4:0-7-12	2,0-1-8], [7:0-3-	0,Edge], [9	:0-7-12,0-1-8]	, [11:0-0	-15,Edge], [15:0-3	3-8,0-2	-8], [19:0-	3-8,0-2-8]		
LOADING	4 /	SPACING-	2-0-0	CSI.			EFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.86	V	ert(LL)	-0.35	17	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.58	V.	ert(CT)	-0.62	17	>615	180	M18AHS	142/136
BCLL	0.0	Rep Stress Incr	NO	WB	0.58	H	lorz(CT)	0.11	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matr	ix-MS							Weight: 167 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER- BRACING-

TOP CHORD 2x4 SPF No.2 *Except* 4-7,7-9: 2x4 SPF 1650F 1.5E

4-7,7-9: 2x4 SPF 1650F 1.5E BOT CHORD 2x6 SP 2400F 2.0E *Except*

16-18: 2x6 SPF 2100F 1.8E

WEBS 2x4 SPF No.2

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

Max Horz 2=111(LC 7)

Max Uplift 2=-918(LC 8), 11=-918(LC 9) Max Grav 2=3164(LC 1), 11=3164(LC 1)

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

TOP CHORD 2-3=-5258/1542, 3-4=-5066/1543, 4-5=-6130/1896, 5-6=-6704/2063, 6-8=-6704/2063,

8-9=-6130/1896, 9-10=-5066/1543, 10-11=-5258/1543

BOT CHORD 2-21=-1333/4489, 20-21=-1333/4489, 19-20=-1326/4363, 17-19=-1902/6127, 15-17=-1844/6127, 14-15=-1225/4363, 13-14=-1260/4489, 11-13=-1260/4489 WEBS 4-20=-226/758, 4-19=-830/2364, 5-19=-910/348, 5-17=-313/794, 6-17=-319/130,

8-17=-313/794, 8-15=-910/348, 9-15=-830/2364, 9-14=-226/758

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=918, 11=918.
- 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 spaced at 2-0-0 oc max. starting at 1-9-8 from the left end to 13-9-8 to connect truss(es) to front face of bottom chord.
- 10) 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 15-9-8 from the left end to 29-9-8 to connect truss(es) to front face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



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

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

Rigid ceiling directly applied or 7-1-9 oc bracing

September 12,2022

OAD CASE(S) Standard

Continued on Page 2 sign 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



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB28266MMIT, MISSOURI 09/15/02022 urle 2/all 6:25

Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE #177/MO	
Hip Girder	1	1	Joh Reference (ontional)	154112185

Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:36:38 2022 Page 2 $ID: LPot ITLm 4OE bu D1Gvqy HHByhHl8-Kw6RRfbSO0_CCBVqfCt6Guyy7hPC4GtXsuG4jmyfP87\\$

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, 22-25=-20

Concentrated Loads (lb)

Vert: 18=-226(F) 17=-226(F) 16=-226(F) 28=-222(F) 29=-221(F) 30=-221(F) 31=-226(F) 32=-226(F) 33=-226(F) 34=-226(F) 35=-226(F) 36=-226(F) 36=-2

38=-221(F) 39=-222(F)

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB292676MMIT, MISSOURI 09/15/2022 wie Zalle 6 25

Qty SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Ply 154112186 Hip Job Reference (optional)

Valley Center, KS - 67147,

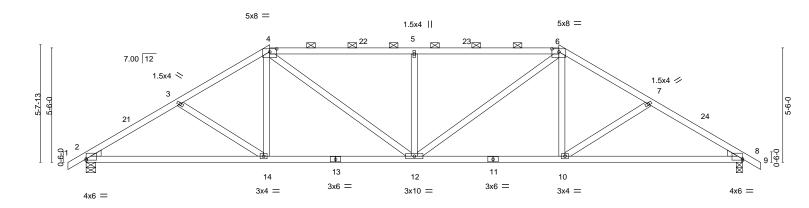
8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:36:57 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHl8-HamcQ8qMwsNW_6SUHhjZXuEFPLtU1x0KELMbt9yfP7q 22-9-0 6-11-8 27-0-11 31-7-0 4-3-11 4-6-5

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

Scale = 1:55.4



15-9-8

		8-10-0	_I 15-9-8	22-9-0	31-7-0	
	1	8-10-0	6-11-8	6-11-8	8-10-0	
Plate Offs	ets (X,Y)	[2:0-0-0,0-0-12], [4:0-4-0,0-1-11], [6	6:0-4-0,0-1-11], [8:Edge,0-0-12]			
LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl	L/d PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.66	Vert(LL) -0.14 12 >999	240 MT20 197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.66	Vert(CT) -0.26 12-14 >999	180	
BCLL	0.0	Rep Stress Incr YES	WB 0.30	Horz(CT) 0.09 8 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 127 lb FT = 20%	%

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

2x4 SPF No.2 WEBS

WEDGE

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

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

Max Horz 2=146(LC 11)

Max Uplift 2=-265(LC 12), 8=-265(LC 13) Max Grav 2=1483(LC 1), 8=1483(LC 1)

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

TOP CHORD 2-3=-2336/425, 3-4=-2093/379, 4-5=-2227/373, 5-6=-2227/373, 6-7=-2093/379,

7-8=-2336/425

BOT CHORD 2-14=-376/1941, 12-14=-258/1758, 10-12=-148/1758, 8-10=-279/1941

3-14=-271/155, 4-14=-14/359, 4-12=-222/692, 5-12=-572/232, 6-12=-222/692,

6-10=-14/359, 7-10=-271/155

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-3-6, Interior(1) 2-3-6 to 8-10-0, Exterior(2R) 8-10-0 to 13-3-10, Interior(1) 13-3-10 to 22-9-0, Exterior(2R) 22-9-0 to 27-2-6, Interior(1) 27-2-6 to 32-5-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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=265, 8=265.
- 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.



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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE2S256MMIT, MISSOURI 09/15/2022 wie Zalle 6 25

SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qty Ply 154112187 Hip Job Reference (optional)

Valley Center, KS - 67147,

11-1-7

5-5-6

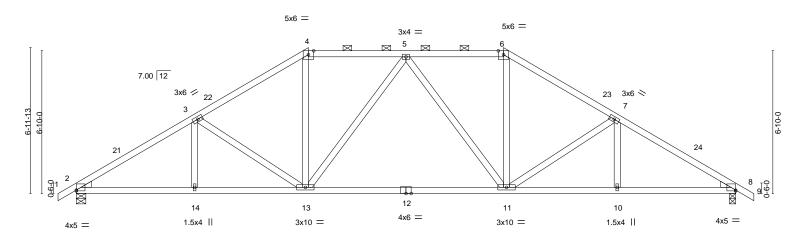
8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:36:59 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHl8-DytNrqsdSTdEDPcsO6l1cJJgV9YDVpechfrhy2yfP7o 20-5-9 25-10-15 31-7-0 4-8-1 5-8-1

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

Scale = 1:55.2



15-9-8

4-8-1

		5-8-1	5-5-6		9-4-2			5-5-6	5-8-1	*
Plate Off	sets (X,Y)	[2:0-0-0,0-0-8], [8:Edge,0	0-0-8]							
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 0.37	Vert(LL)	-0.22 11-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.47 11-13	>802	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.42	Horz(CT)	0.09 8	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-AS					Weight: 134 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

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

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

Max Horz 2=181(LC 11)

Max Uplift 2=-261(LC 12), 8=-261(LC 13) Max Grav 2=1483(LC 1), 8=1483(LC 1)

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

TOP CHORD 2-3=-2330/396, 3-4=-1930/352, 4-5=-1581/349, 5-6=-1581/349, 6-7=-1930/352,

7-8=-2330/397

BOT CHORD 2-14=-364/1925 13-14=-364/1925 11-13=-180/1713 10-11=-244/1925 8-10=-244/1925

WEBS 3-13=-445/206, 4-13=-79/578, 5-13=-358/187, 5-11=-358/186, 6-11=-79/578,

7-11=-446/207

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-3-6, Interior(1) 2-3-6 to 11-1-7, Exterior(2R) 11-1-7 to 15-9-8, Interior(1) 15-9-8 to 20-5-9, Exterior(2R) 20-5-9 to 24-11-3, Interior(1) 24-11-3 to 32-5-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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=261, 8=261
- 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.



September 12,2022

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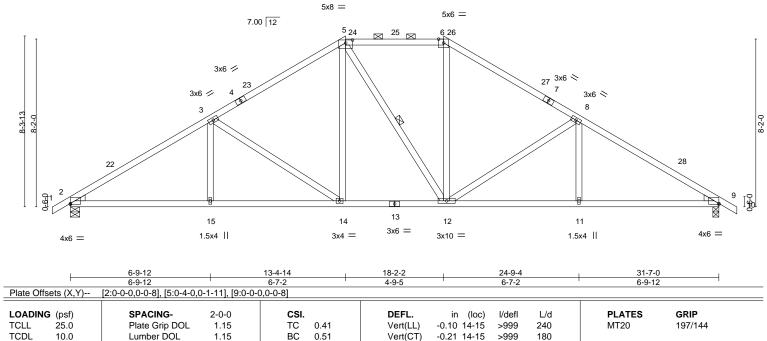


RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB292676MMIT, MISSOURI 09/15/2022 wie Zalle 6 25

SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qty Ply 154112188 Hip Job Reference (optional)

Valley Center, KS - 67147, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:00 2022 Page 1 24-9-4 31-7-0 4-9-5 6-9-12

Scale = 1:56.1



Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

WEBS

0.09

n/a

2-0-0 oc purlins (4-9-10 max.): 5-6.

Rigid ceiling directly applied.

1 Row at midpt

Structural wood sheathing directly applied, except

n/a

LUMBER-

BCLL

BCDL

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

0.0

10.0

WEDGE

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

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

Max Horz 2=-216(LC 10) Max Uplift 2=-255(LC 12), 9=-255(LC 13)

Max Grav 2=1483(LC 1), 9=1483(LC 1)

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=-2307/377, 3-5=-1750/325, 5-6=-1403/334, 6-8=-1751/325, 8-9=-2307/377 **BOT CHORD** 2-15=-358/1894, 14-15=-358/1894, 12-14=-145/1403, 11-12=-213/1893, 9-11=-213/1893 WFBS 3-15=0/267, 3-14=-615/252, 5-14=-87/445, 6-12=-77/430, 8-12=-615/252, 8-11=0/266

YES

WB

Matrix-AS

0.62

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-3-6, Interior(1) 2-3-6 to 13-4-14, Exterior(2R) 13-4-14 to 17-10-7, Interior(1) 17-10-7 to 18-2-2, Exterior(2R) 18-2-2 to 22-7-12, Interior(1) 22-7-12 to 32-5-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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=255, 9=255
- 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.
- 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.



Weight: 134 lb

FT = 20%

September 12,2022



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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB292676MMIT, MISSOURI 09/15/2022 urle 2/all 6:25

SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qty Ply 154112189 HIP Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:02 2022 Page 1 Valley Center, KS - 67147,

ID:LPotITLm4OEbuD1GvqyHHByhHl8-dXZVTsuVIO?o4tLR3ElkEyx1TMZ6iCD3Nd4MYNyfP7I

15-9-8 0-1-3 Scale: 3/16"=1" 5x10 =0-8-10 7.00 12 5 3x6 / 3x6 ≥ 3x6 // 3x6 ≥ 12 11 10 1.5x4 5x8 = 1.5x4 II 15-10-11 15-9-8 0-1-3 0-1-3 Plate Offsets (X,Y)--[2:0-0-0,0-1-0], [8:0-0-0,0-1-0], [11:0-4-0,0-3-0] LOADING (psf) SPACING-DEFI PI ATES GRIP

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

WEBS

TOP CHORD

BOT CHORD

in (loc)

8-10

8-10

8

1 Row at midpt

-0.11

-0.27

0.09

I/defl

>999

>999

n/a

I/d

240

180

n/a

Structural wood sheathing directly applied.

Rigid ceiling directly applied or 9-10-4 oc bracing.

3-11, 7-11

MT20

Weight: 121 lb

197/144

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

25.0

10.0

0.0

10.0

REACTIONS.

(size) 2=0-5-8, 8=0-3-8 Max Horz 2=-253(LC 10)

Max Uplift 2=-250(LC 12), 8=-250(LC 13) Max Grav 2=1482(LC 1), 8=1476(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=-2245/343, 3-5=-1533/316, 5-7=-1537/314, 7-8=-2256/349 **BOT CHORD** 2-12=-342/1801, 11-12=-342/1801, 10-11=-176/1816, 8-10=-176/1816 3-12=0/344, 3-11=-753/309, 7-11=-763/312, 7-10=0/346, 5-11=-141/900 WFBS

2-0-0

1.15

1.15

YES

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-3-6, Interior(1) 2-3-6 to 15-8-12, Exterior(2R) 15-8-12 to 20-2-5, Interior(1) 20-2-5 to 32-5-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

TC

вс

WB

Matrix-S

0.96

0.76

0.30

- 3) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 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 (it=lb) 2=250 8=250
- 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.



September 12,2022





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 AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB292676MMIT, MISSOURI 09/15/2022 urle 2/all 6:25

Truss Type SUMMIT/HAWTHORN RIDGE #177/MO Qty Ply 154112190 Roof Special Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:03 2022 Page 1

ID:LPotITLm4OEbuD1GvqyHHByhHl8-6k7tgCv7Wi8fi1wedyqzm9UHemvcRXoCcHpv5pyfP7k 12-1-12 15-6-0 31-3-8 8-0-1 3-4-4

> Scale = 1:62.8 5x6 =

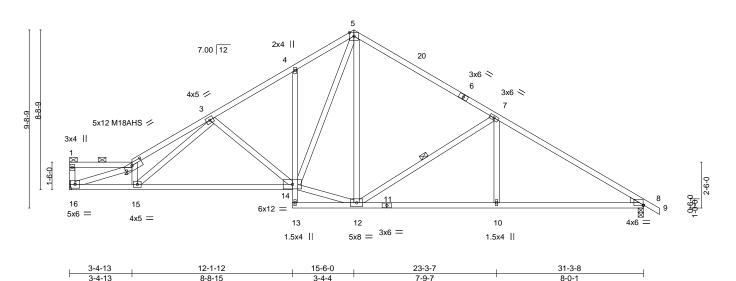


Plate Offsets (X,Y)--[2:0-6-12,0-1-12], [8:0-0-4,0-0-4] LOADING (psf) SPACING-PI ATES GRIP 2-0-0 CSI. DEFL in (loc) I/defl I/d TCLL 25.0 Plate Grip DOL 1.15 TC 0.61 Vert(LL) -0.20 14-15 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.74 Vert(CT) -0.49 14-15 >771 180 M18AHS 142/136 **BCLL** 0.0 YES WB 8

Rep Stress Incr 0.79 Horz(CT) 0.10 n/a n/a **BCDL** 10.0 Code IRC2018/TPI2014 Matrix-AS Weight: 145 lb FT = 20%LUMBER-

TOP CHORD 2x4 SPF No.2

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

WEDGE

Right: 2x4 SP No.3

BRACING-

BOT CHORD

WEBS

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

2-0-0 oc purlins (6-0-0 max.): 1-2. Rigid ceiling directly applied. 1 Row at midpt

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

Max Horz 16=-261(LC 8)

Max Uplift 16=-228(LC 12), 8=-252(LC 13) Max Grav 16=1401(LC 1), 8=1464(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3671/580, 3-4=-1964/345, 4-5=-1883/422, 5-7=-1534/326, 7-8=-2232/363 **BOT CHORD** 15-16=-534/3212, 14-15=-359/2097, 10-12=-186/1818, 8-10=-186/1818

2-16=-3310/471, 2-15=-848/218, 3-15=-205/1390, 3-14=-622/235, 12-14=-24/1282, WFBS

Valley Center, KS - 67147,

5-14=-293/1139, 5-12=-141/254, 7-12=-771/309, 7-10=0/325

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-4-13, Interior(1) 3-4-13 to 15-6-0, Exterior(2R) 15-6-0 to 18-7-9 , Interior(1) 18-7-9 to 32-2-0 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) 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.
- 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) 16=228, 8=252.
- This truss 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.



September 12,2022



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

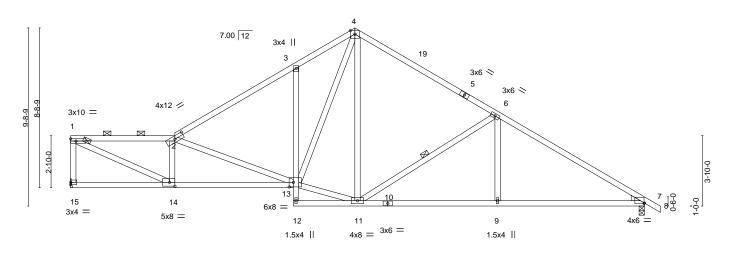


RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB292676MMIT, MISSOURI 09/15/020/220urle2/alle@ca5

SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qty Ply 154112191 Roof Special Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:04 2022 Page 1 Valley Center, KS - 67147,

ID:LPotITLm4OEbuD1GvqyHHByhHI8-awhGuYwIG?GWJBVqBfLCJN0SNAGIAznLrxZSdFyfP7j 15-6-0 3-4-4 12-1-12 31-3-8 8-0-1

> Scale = 1:62.8 5x6 =



	3-0-3	0-:	3-4-4		-9-7		0-0-1	
Plate Offsets (X,Y)	[2:0-6-0,0-1-15], [7:0-0-4	,0-0-4], [13:0-2	·12,0-3-0], [14:0-3-8,0-2-	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 0.61	Vert(LL) -0	.15 13-14	>999 240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT) -0	.30 13-14	>999 180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.87	Horz(CT) 0	.08 7	n/a n/a		
BCDL 10.0	Code IRC2018/T	PI2014	Matrix-AS				Weight: 145 lb	FT = 20%
							-	

LUMBER-**BRACING-**

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

BOT CHORD Rigid ceiling directly applied. 2x4 SPF No.2 WEBS WEDGE WEBS 1 Row at midpt 6-11 Right: 2x4 SP No.3

REACTIONS. (size) 15=Mechanical, 7=0-3-8

Max Horz 15=-280(LC 8)

Max Uplift 15=-232(LC 12), 7=-252(LC 13) Max Grav 15=1401(LC 1), 7=1464(LC 1)

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

TOP CHORD 1-15=-1342/246, 1-2=-2468/374, 2-3=-2011/335, 3-4=-1906/430, 4-6=-1534/326,

6-7=-2232/363

BOT CHORD 13-14=-395/2523, 3-13=-353/224, 9-11=-186/1819, 7-9=-186/1819 **WEBS**

1-14=-408/2649, 2-14=-1018/237, 2-13=-958/230, 11-13=-18/1204, 4-13=-305/1157,

4-11=-139/269, 6-11=-772/310, 6-9=0/325

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-3-5, Interior(1) 3-3-5 to 15-6-0, Exterior(2R) 15-6-0 to 18-7-9, Interior(1) 18-7-9 to 32-2-0 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) except (jt=lb) 15=232, 7=252.
- This truss 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.

OF MISSO SCOTT M. **SEVIER** PE-2001018807 SSIONAL S

Structural wood sheathing directly applied, except end verticals, and

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



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB292676MMIT, MISSOURI 09/15/020/220urle2/all=6:25

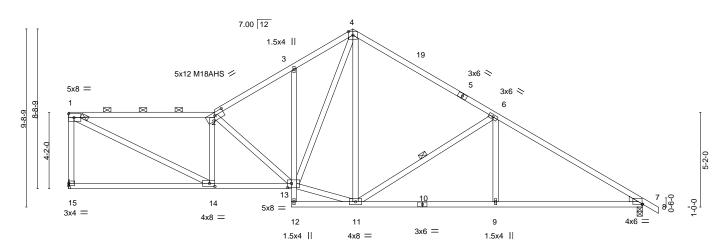
Truss Type SUMMIT/HAWTHORN RIDGE #177/MO Qtv Ply 154112192 Roof Special Job Reference (optional)

Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:06 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHl8-WJp0JDx0odWEZUeDI4NgOo6ktzzkey6eIF2Zh8yfP7h

15-6-0 3-4-4 31-3-8 8-0-1 12-1-12 7-11-10

> Scale = 1:62.8 5x6 =



	7-11-10 7-11-10	12-1-12 4-2-2 15-6-0 3-4-4	23-3-7 7-9-7	31-3-8 8-0-1	-
Plate Offsets (X,Y)	[2:0-6-0,0-1-15], [7:0-0-4,0-0-4], [13	:0-2-8,0-2-12], [14:0-3-8,0-2-0]			
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 0.87 BC 0.59 WB 0.56	DEFL. in (loc) l/defl Vert(LL) -0.13 13-14 >999 Vert(CT) -0.25 9-11 >999 Horz(CT) 0.07 7 n/a	L/d PLATES 240 MT20 180 M18AHS n/a	GRIP 197/144 142/136
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	11012(01) 0.07 7 174	Weight: 149 lt	FT = 20%

BRACING-TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except* 1-2: 2x4 SPF 1650F 1.5E

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

WEDGE

Right: 2x4 SP No.3

REACTIONS. (size) 15=Mechanical, 7=0-3-8

Max Horz 15=-298(LC 8)

Max Uplift 15=-240(LC 12), 7=-252(LC 13) Max Grav 15=1401(LC 1), 7=1464(LC 1)

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

TOP CHORD 1-15=-1319/266, 1-2=-2125/348, 2-3=-1957/351, 3-4=-1848/418, 4-6=-1534/326,

6-7=-2232/362

BOT CHORD 13-14=-269/2157. 9-11=-185/1818. 7-9=-185/1818

WFBS 1-14=-343/2284, 2-14=-896/223, 2-13=-764/166, 11-13=-39/1174, 4-13=-260/1091,

4-11=-132/286, 6-11=-771/309, 6-9=0/326

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-3-5, Interior(1) 3-3-5 to 15-6-0, Exterior(2R) 15-6-0 to 18-7-9, Interior(1) 18-7-9 to 32-2-0 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) All plates are MT20 plates unless otherwise indicated.
- 5) The Fabrication Tolerance at joint 2 = 4%
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 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.

OF MISS SCOTT M. **SEVIER** PE-2001018807 SIONAL

Structural wood sheathing directly applied, except end verticals, and

6-11

2-0-0 oc purlins (2-2-0 max.): 1-2.

Rigid ceiling directly applied.

1 Row at midpt



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB292676MMIT, MISSOURI 09/15/202020 urle 2/211-6:26

-0-10-8 0-10-8

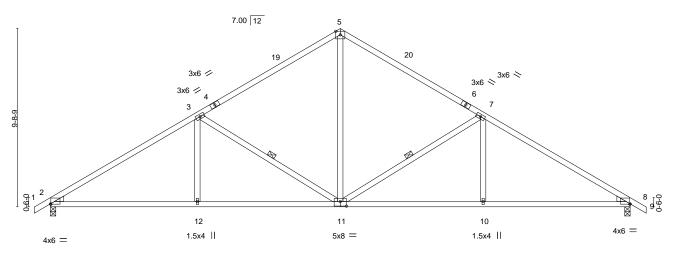
SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qty Ply 154112193 Common Job Reference (optional)

Valley Center, KS - 67147,

15-9-8 7-9-7

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:07 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHI8-_VMOWZyeZwe5AeDPsouvx?ezbNJ3NTSoXvn6EayfP7g 23-6-15 7-9-7 31-7-0

Scale = 1:62.8 5x6 =



31-7-0 8-0-1 8-0-1 Plate Offsets (X,Y)-- [2:0-0-4,0-0-4], [8:0-0-4,0-0-4], [11:0-4-0,0-3-0]

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.
TCLL	25.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-AS	

Vert(CT) -0.22 11-12 >999 180 Horz(CT) 0.08 8 n/a n/a

in (loc)

-0.10

BRACING-

TOP CHORD

Structural wood sheathing directly applied.

I/d

240

PI ATES

Weight: 123 lb

MT20

GRIP

197/144

FT = 20%

BOT CHORD Rigid ceiling directly applied. WEBS 1 Row at midpt 7-11, 3-11

11

I/defl

>999

LUMBER-

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

WEDGE

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

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

Max Horz 2=254(LC 11)

Max Uplift 2=-248(LC 12), 8=-248(LC 13) Max Grav 2=1483(LC 1), 8=1483(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2264/355, 3-5=-1567/326, 5-7=-1567/326, 7-8=-2264/356 **BOT CHORD** 2-12=-350/1845, 11-12=-350/1845, 10-11=-183/1845, 8-10=-183/1845 WFBS 5-11=-142/926, 7-11=-766/311, 7-10=0/319, 3-11=-766/311, 3-12=0/319

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-3-6, Interior(1) 2-3-6 to 15-9-8, Exterior(2R) 15-9-8 to 18-11-6, Interior(1) 18-11-6 to 32-5-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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=248 8=248
- This truss 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.



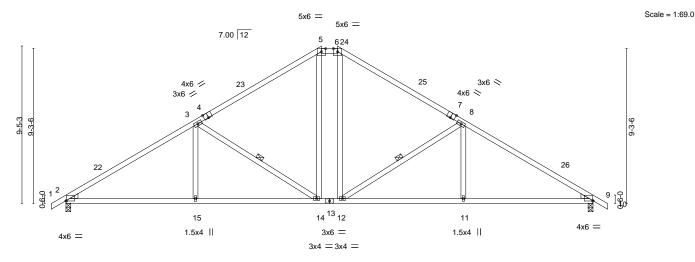


RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB29266MMIT, MISSOURI 09/15/2022 urle 2/alle 6:26

SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qty Ply 154112194 Hip Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:36:40 2022 Page 1

Valley Center, KS - 67147,

ID:LPotITLm4OEbuD1GvqyHHByhHI8-HIEBrKdiwdEwRVfDndvaLJ1MIV61YFDpJClBoeyfP85 15-3-11 7-6-8 31-7-0



			7-9-	3		7-6-8	0-11-9	7-6	i-8			7-9-3	
Plate Off	sets (X,Y)	[2:0-0-4	1,0-0-4], [4:0-3-0,E	dge], [7:0-3-0,	Edge], [9:0-	0-4,0-0-4]							
LOADIN	G (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	F	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.13 14	4-15	>999	240	MT20	197/144
TCDL	10.0	L	_umber DOL	1.15	BC	0.56	Vert(CT)	-0.25 14	4-15	>999	180		
BCLL	0.0	F	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	(Code IRC2018/TF	PI2014	Matri	x-AS						Weight: 131 I	b FT = 20%

1,6-3-5

BRACING-TOP CHORD

BOT CHORD

WEBS

23-9-13

31-7-0

3-14, 8-12

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-7-10 max.): 5-6.

Rigid ceiling directly applied

1 Row at midpt

15-3-11

LUMBER-

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

WEBS WEDGE

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

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

Max Horz 2=245(LC 11) Max Uplift 2=-250(LC 12), 9=-250(LC 13)

Max Grav 2=1483(LC 1), 9=1483(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2275/364, 3-5=-1612/322, 5-6=-1265/309, 6-8=-1612/322, 8-9=-2275/364 **BOT CHORD** 2-15=-354/1857, 14-15=-354/1857, 12-14=-95/1265, 11-12=-190/1857, 9-11=-190/1857 WFBS 3-15=0/313, 3-14=-742/307, 5-14=-79/456, 6-12=-78/456, 8-12=-743/308, 8-11=0/313

7-9-3

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-3-6, Interior(1) 2-3-6 to 15-3-11, Exterior(2E) 15-3-11 to 16-3-5, Exterior(2R) 16-3-5 to 20-8-14, Interior(1) 20-8-14 to 32-5-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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=250, 9=250,
- 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.
- 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.



September 12,2022



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

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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 AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB292676MMIT, MISSOURI 09/15/2022 urle 2/all 6 26

Truss Type Qty SUMMIT/HAWTHORN RIDGE #177/MO Ply 154112195 Roof Special Job Reference (optional)

Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:36:41 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHl8-IVoZ3geKhxMn3eEPLKQptWZYduSUHaVzYsUkK5yfP84

Structural wood sheathing directly applied, except

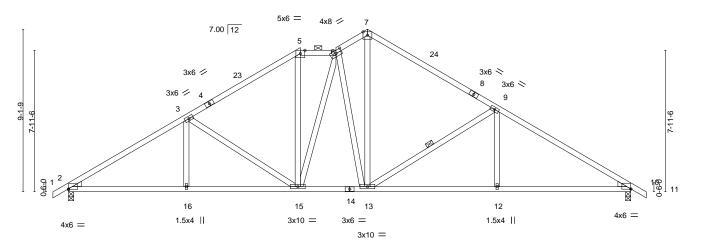
2-0-0 oc purlins (4-7-11 max.): 5-6.

Rigid ceiling directly applied.

1 Row at midpt

15-0-5 16-9-8 1-9-3 24-0-15 7-3-7 31-7-0 7-6-1 2-0-0

> Scale = 1:64.7 5x6 =



		1 0-7-8	1	13-0-5	1	10-9-0 I	24-0-	15	1	31-7-0	1
		6-7-8	1	6-4-13		3-9-3	7-3-	7	1	7-6-1	7
Plate Offsets ()	(,Y) [2:0-0-0,0-0-8], [6:0-4-0,0-1	-15], [10:0-0	0-0,0-0-4]							
				T .							
LOADING (psi	f)	SPACING-	2-0-0	CSI.		DEFL.	in (loc	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Ó	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.11 15	>999	240	MT20	197/144
TCDL 10.0	0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.24 12-13	>999	180		
BCLL 0.0	0	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.09 10) n/a	n/a		
BCDL 10.0	0	Code IRC2018/TPI2	014	Matri	x-AS					Weight: 144 lb	FT = 20%
				1						_	

BRACING-TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SPF No.2 WEBS WEDGE

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

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

Max Horz 2=-239(LC 10)

Max Uplift 2=-260(LC 12), 10=-242(LC 13) Max Grav 2=1483(LC 1), 10=1483(LC 1)

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

TOP CHORD 2-3=-2313/386, 3-5=-1777/340, 5-6=-1430/345, 6-7=-1476/349, 7-9=-1636/340,

9-10=-2285/350

2-16=-383/1900, 15-16=-383/1900, 13-15=-157/1440, 12-13=-191/1868, 10-12=-191/1868

3-16=0/262, 3-15=-585/240, 5-15=-61/429, 6-13=-695/242, 7-13=-233/1112,

9-13=-710/286, 9-12=0/307

NOTES-

WEBS

BOT CHORD

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-3-6, Interior(1) 2-3-6 to 13-0-5, Exterior(2E) 13-0-5 to 15-0-5, Interior(1) 15-0-5 to 16-9-8, Exterior(2R) 16-9-8 to 19-11-6, Interior(1) 19-11-6 to 32-5-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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=260, 10=242
- 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.



September 12,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB29266MMIT, MISSOURI 09/15/2022 urle 2/all 6:26

SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qty Ply 154112196 Roof Special Job Reference (optional)

Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:36:43 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHl8-htwKUMfaDYcVIyOoSITHzxfuxi6GIVbG0AzrOzyfP82 31-7-0 7-6-1

Structural wood sheathing directly applied, except

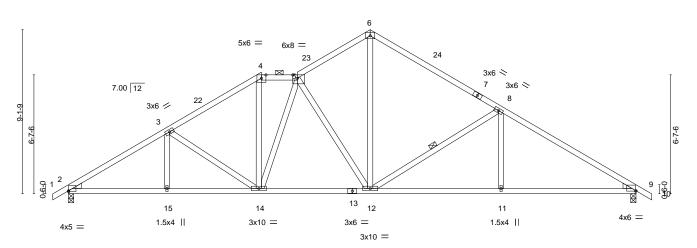
8-12

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

Rigid ceiling directly applied.

1 Row at midpt

Scale: 3/16"=1' 4x6 =



16-9-8 4-0-10

12-8-14

		1 3-3-12	10-0-14	10-9-	0 1	24-0-13	1	31-7-0	1
		5-5-12	5-3-2	6-0-1	0 '	7-3-7	1	7-6-1	
Plate Off	sets (X,Y)	[2:0-0-0,0-0-8], [5:0-3-1,E	dge], [9:0-0-4,0-	0-4]					
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 0.53	Vert(LL)	-0.11 12 >999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.24 11-12 >999	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.74	Horz(CT)	0.09 9 n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix-AS				Weight: 138 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SPF No.2 WEBS WEDGE

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

REACTIONS. (size) 2=0-3-8, 9=0-3-8 Max Horz 2=239(LC 11)

Max Uplift 2=-260(LC 12), 9=-242(LC 13) Max Grav 2=1483(LC 1), 9=1483(LC 1)

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

2-3=-2340/393, 3-4=-1943/358, 4-5=-1593/352, 5-6=-1546/350, 6-8=-1637/346, TOP CHORD

8-9=-2285/357 BOT CHORD

2-15=-404/1935, 14-15=-404/1935, 12-14=-244/1686, 11-12=-194/1868, 9-11=-194/1868

3-14=-428/191, 4-14=-78/614, 5-14=-305/97, 5-12=-733/262, 6-12=-208/1116,

8-12=-712/290. 8-11=0/299

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-3-6, Interior(1) 2-3-6 to 10-8-14, Exterior(2E) 10-8-14 to 12-8-14, Interior(1) 12-8-14 to 16-9-8, Exterior(2R) 16-9-8 to 19-11-6, Interior(1) 19-11-6 to 32-5-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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=260, 9=242.
- This truss 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.



September 12,2022



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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 AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB29266MMIT, MISSOURI 09/15/2022 urle 2/all 6:26

SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qtv Ply 154112197 Roof Special Job Reference (optional)

Valley Center, KS - 67147,

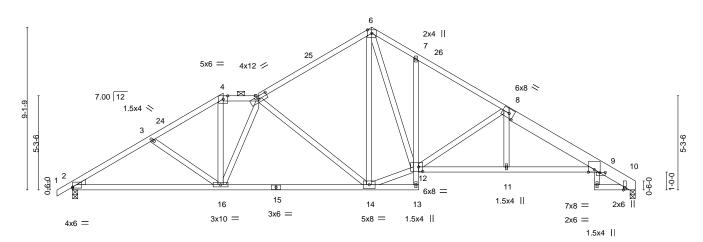
8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:36:44 2022 Page 1 $ID: LPot ITLm 4OEbuD1GvqyHHByhHl8-94TihigD_skMw6z_0S_WV9B316OfUuwPEqjPxPyfP81$ 31-7-0 32-5-8 2-5-7 0-10-8 19-5-0 24-4-4 29-1-9 4-11-4 4-9-5

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

Scale = 1:64.7 5x6 =



16-9-8

	0-5-7	10-3-0	19-3-0	24-4-4	29-3-0	1 31-7-0	
	8-5-7	8-4-1	2-7-8	4-11-4	4-11-4	2-3-8	
Plate Offsets (X,Y)	[2:0-0-0,0-0-12], [5:0-6-0,0-1-15], [8:0-	3-4,0-3-0], [9:0-3-11,0-0-3], [12:	0-2-12,0-3-0]				
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	CSI. TC 0.56 BC 0.84 WB 0.99 Matrix-AS	- ()	37 14-16 >999	L/d 240 180 n/a	PLATES MT20 Weight: 162 lb	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

16.0.9

LUMBER-

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

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

WEDGE Left: 2x4 SP No.3

REACTIONS.

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

Max Horz 2=236(LC 11)

Max Uplift 2=-259(LC 12), 10=-217(LC 13) Max Grav 2=1477(LC 1), 10=1420(LC 1)

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

TOP CHORD 2-3=-2335/412, 3-4=-2099/366, 4-5=-1743/349, 5-6=-1617/334, 6-7=-1924/424, 7-8=-2038/372 8-9=-2675/405 9-10=-706/130

BOT CHORD 2-16=-437/1940. 14-16=-345/1972. 11-12=-273/2409. 9-11=-274/2402 **WEBS** 4-16=-124/815, 5-16=-584/151, 5-14=-873/298, 6-14=-96/318, 12-14=-88/1320,

6-12=-243/1183, 8-12=-881/252, 8-11=0/250

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-3-6, Interior(1) 2-3-6 to 8-5-7, Exterior(2E) 8-5-7 to 10-5-7, Interior(1) 10-5-7 to 16-9-8, Exterior(2R) 16-9-8 to 19-11-6, Interior(1) 19-11-6 to 31-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=259, 10=217.
- 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.



September 12,2022



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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE2S2676MMIT, MISSOURI 09/15/2022 urle 2/ail 6:26

Truss Type SUMMIT/HAWTHORN RIDGE #177/MO Qtv Ply 154112198 Roof Special Job Reference (optional)

Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:36:46 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHl8-5SbS6OiTWT_49Q7N7t0_aaHPnv4kypUii8CV?lyfP8?

31-7-0 32-5-8 2-3-8 0-10-8 11-3-0 13-9-8 16-9-8 19-5-0 23-2-4 29-3-8

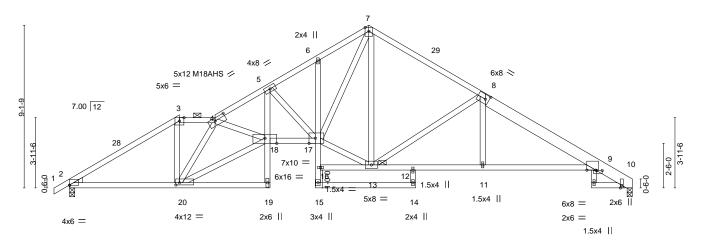
> Scale = 1:64.7 5x6 II

> > Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

1 Brace at Jt(s): 13



		0-2-0	1 11	3-0	13-9-0	10-9-0	7-3-0	23-2-	4	29-3-0)	31-7-0	
		6-2-0	5-	1-0	2-6-8	3-0-0 2	-7-8	3-9-4	4	6-1-4		2-3-8	
Plate Offse	ets (X,Y)	[2:0-0-0,0-0-4], [4:0-7-4,0-	1-12], [8:0-2-	8,0-3-0], [9:0	0-3-11,0-0-3]	, [9:0-6-0,0-0-0],	[17:0-4	-4,Edge],	[18:0-8	-0,Edge], [20:0-	2-8,0-1-8]		
LOADING TCLL	25.Ó	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.56	DEFL. Vert(LL)		in (loc)	l/defl >999	240	PLAT)	GRIP 197/144
TCDL BCLL BCDL	10.0 0.0 10.0	Lumber DOL Rep Stress Incr Code IRC2018/TPI	1.15 YES 2014	BC WB Matr	0.86 0.92 ix-AS	Vert(CT) Horz(CT		53 17-18 37 10	>714 n/a		M18A Weig	AHS ht: 175 lb	142/136 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

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

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

WEDGE Left: 2x4 SP No.3

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

Max Horz 2=236(LC 11)

Max Uplift 2=-259(LC 12), 10=-217(LC 13) Max Grav 2=1477(LC 1), 10=1420(LC 1)

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

TOP CHORD 2-3=-2323/380, 3-4=-1940/383, 4-5=-4030/694, 5-6=-2788/485, 6-7=-2721/551, 7-8=-1802/353, 8-9=-2533/383, 9-10=-706/130

BOT CHORD 2-20=-389/1919, 5-18=-285/1602, 17-18=-560/3438, 12-13=-239/2235, 11-12=-238/2252,

9-11=-240/2246

WEBS 3-20=-59/760, 4-20=-2550/415, 18-20=-645/3422, 4-18=0/351, 5-17=-1563/363,

13-17=-126/1535, 7-17=-438/2169, 8-13=-957/302, 8-11=0/305

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-3-6, Interior(1) 2-3-6 to 6-2-0, Exterior(2E) 6-2-0 to 8-2-0, Interior(1) 8-2-0 to 16-9-8, Exterior(2R) 16-9-8 to 19-11-6, Interior(1) 19-11-6 to 31-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=259, 10=217.
- 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.



September 12,2022

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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE2S256MMIT, MISSOURI 09/15/2022 urle 2/ail 6:26

SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qtv Ply 154112199 Roof Special Girder Job Reference (optional)

Valley Center, KS - 67147,

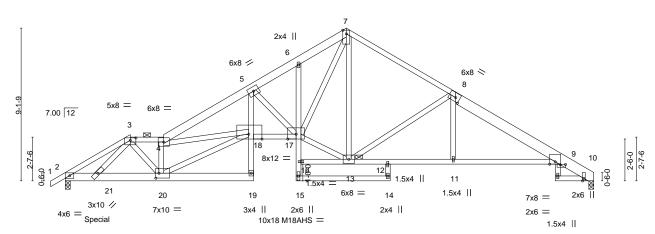
8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:36:48 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHl8-2rjCX3jj25FoPjGIFI2Sf?MgijmaQja?9Shc3ByfP7z

31-7-0 32-5-8 2-3-8 0-10-8 13-9-8 16-9-8 19-5-0 23-2-4 29-3-8

> Scale = 1:68.9 5x10 ||

> > 29-3-8

31-7-0



				5-4-7	2-6-8	2-8-8 0-3-8 2-7-8			6-1-4	2-3-8	
Plate Offse	ts (X,Y)	[3:0-4-0,0-1-11], [8:0-3-0	,0-2-12], [9:0-	·3-11,0-0-3], [18:0-9-8,Ec	dge], [20:0-2-4,0-3-8]				
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.33 17-18	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.59 17-18	>639	180	M18AHS	142/136
BCLL	0.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.40 10	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-MS					Weight: 192	2 lb FT = 20%

16-6-0 16_r9-8 19-5-0

23-2-4

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF No.2 *Except* TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins, 4-7: 2x6 SPF No.2, 8-10: 2x8 SP 2400F 2.0E except

2x4 SPF No.2 *Except* 2-0-0 oc purlins (3-1-3 max.): 3-4.

11-3-0

2-19: 2x6 SPF No.2, 17-18,9-16: 2x4 SPF 1650F 1.5E BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

WEBS 2x4 SPF No 2 9-4-6 oc bracing: 2-21 8-6-10 oc bracing: 17-18.

13-9-8

JOINTS 1 Brace at Jt(s): 13 REACTIONS. (size) 2=0-3-8, 10=0-3-8 Max Horz 2=236(LC 7)

Max Uplift 2=-393(LC 8), 10=-226(LC 9) Max Grav 2=2132(LC 1), 10=1458(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3324/609, 3-4=-3356/579, 4-5=-4921/839, 5-6=-2998/527, 6-7=-2962/592,

7-8=-1885/366, 8-9=-2624/379, 9-10=-726/135

BOT CHORD 2-21=-620/2863, 20-21=-529/2490, 5-18=-388/2353, 17-18=-716/4221, 12-13=-232/2322,

11-12=-228/2332. 9-11=-230/2325

1-11-4 3-10-9 5-10-9

WEBS 3-20=-175/1375, 4-20=-2707/522, 18-20=-742/3871, 4-18=-153/843, 5-17=-2360/526, 13-17=-143/1618, 7-17=-483/2433, 8-13=-967/304, 8-11=0/312, 3-21=-208/602

NOTES-

BOT CHORD

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) 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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 694 lb down and 153 lb up at 1-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



September 12,2022

Cantinued on Page 2 with 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



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB2S2S6MMIT, MISSOURI 09/15/2022urle2/alle6ce26

Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE #177/MO
•	· ·	*	154112199
Roof Special Girder	1	1	
			115 ((())

Valley Center, KS - 67147,

Job Reference (optional)
8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:36:49 2022 Page 2 ID:LPotITLm4OEbuD1GvqyHHByhHl8-W1HbkPkLpONe0trxp0ahCCvrR75p9Aq8O6QAbdyfP7y

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, 4-7=-70, 7-9=-70, 9-10=-93, 19-23=-20, 17-18=-20, 14-15=-20, 12-26=-20

Concentrated Loads (lb) Vert: 21=-694(F)



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB29266MMIT, MISSOURI 09/15/020/220urle2/all=6:26

Truss Type SUMMIT/HAWTHORN RIDGE #177/MO Qtv Ply 154112200 Roof Special Job Reference (optional)

Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:36:50 2022 Page 1 $ID: LPot ITLm 4OEbuD1Gvqy HHByhHI8-_ErzyllzZiVVe1Q8Mj5wlQR44XS1ujFldmAj73yfP7x\\$

29-7-0 30-5-8 2-3-8 0-10-8 14-9-8 17-5-0 22-4-4 27-3-8 2-7-8 4-11-4 4-11-4

> Scale = 1:61.3 5x6 =

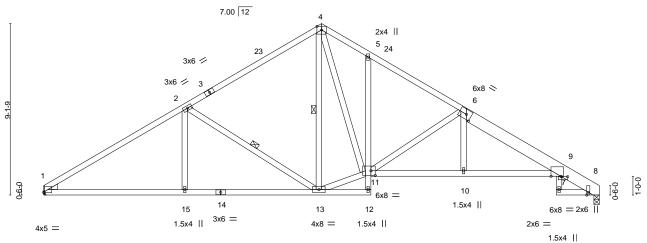
> > 27-3-8

Structural wood sheathing directly applied.

2-13, 4-13

Rigid ceiling directly applied.

1 Row at midpt



						11 0 0			_, _	20.0	
		7-6-1			7-3-7	2-7-8	4-1	-4	4-11-	4 2-3-8	
Plate Offset	ts (X,Y)	[1:0-0-0,0-0-8], [6:0-3-4,0	0-3-0], [7:0-3- ⁻	11,0-0-3], [9:0	-6-4,0-0-0],	[11:0-2-12,0-3-0]					
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	0.54	Vert(LL)	-0.17 10-2	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.31 10-2	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.20	3 n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-AS					Weight: 145 lb	FT = 20%

17-5-0

BRACING-

WEBS

TOP CHORD

BOT CHORD

22-4-4

14-9-8

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except* 6-8: 2x8 SP 2400F 2.0E

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

WEDGE Left: 2x4 SP No.3

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

Max Horz 1=-228(LC 8)

Max Uplift 1=-213(LC 12), 8=-208(LC 13) Max Grav 1=1325(LC 1), 8=1332(LC 1)

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

7-6-1

TOP CHORD 1-2=-2111/332, 2-4=-1461/307, 4-5=-1729/386, 5-6=-1841/331, 6-9=-2467/362, 8-9=-662/126

BOT CHORD 1-15=-334/1721, 13-15=-334/1721, 10-11=-233/2222, 9-10=-235/2215 **WEBS** 2-15=0/303, 2-13=-719/290, 11-13=-65/1152, 4-11=-234/1127, 6-11=-860/250

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=25ft; 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 14-9-8, Exterior(2R) 14-9-8 to 17-9-8, Interior(1) 17-9-8 to 29-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=213, 8=208.
- 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.

OF MISSO SCOTT M. **SEVIER** PE-2001018807

. 29-7-0



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB29266MMIT, MISSOURI 09/15/2022 urle 2/all 6 26

SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qtv Ply 154112201 Roof Special Job Reference (optional)

Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:36:52 2022 Page 1 ID: LPot ITLm 4OEbuD1GvqyHHByhHl8-wcyjNRm E5JIDtLaWU87OqrXQhK8WMdla44fqCyyfP7varanteen and the state of the control of the c27-3-8

17-5-0 2-7-8 22-4-4 4-11-4 29-7-0 30-5-8 2-3-8 0-10-8 14-9-8 7-3-7 4-11-4

> Scale = 1:62.0 5x6 =

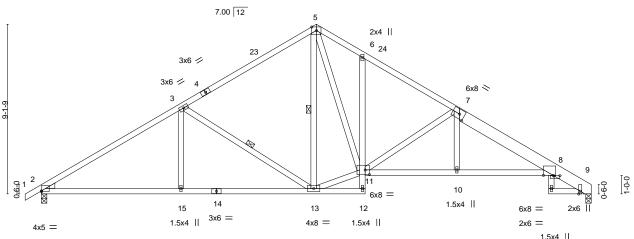
> > 27-3-8

Structural wood sheathing directly applied.

3-13, 5-13

Rigid ceiling directly applied.

1 Row at midpt



		, , ,			1700	1700			2,0	2010		
		7-6-1	- 1		7-3-7	2-7-8	4-	11-4	4-11	-4 2-3-8	1	
Plate Offse	ets (X,Y)	[2:0-0-0,0-0-8], [7:0-3-4,0)-3-0], [8:0-3-1	11,0-0-3], [8:0	-6-4,Edge], [11:0-2-12,0-3-0]						
LOADING TCLL TCDL BCLL	(psf) 25.0 10.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.53 0.77 0.55	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (lo -0.17 10- -0.31 10- 0.20	22 >999	L/d 240 180 n/a	PLATES MT20	GRIP 197/144	
BCDL	10.0	Code IRC2018/TF		Matri	x-AS					Weight: 146 I	b FT = 20%	

17-5-0

BRACING-

WEBS

TOP CHORD

BOT CHORD

22-4-4

14-9-8

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except* 7-9: 2x8 SP 2400F 2.0E

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

WEDGE

Left: 2x4 SP No.3

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

Max Horz 2=236(LC 11)

Max Uplift 2=-233(LC 12), 9=-209(LC 13) Max Grav 2=1387(LC 1), 9=1330(LC 1)

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

7-6-1

TOP CHORD 2-3=-2105/330, 3-5=-1459/306, 5-6=-1726/385, 6-7=-1838/331, 7-8=-2464/362, 8-9=-661/126

BOT CHORD 2-15=-332/1715. 13-15=-332/1715. 10-11=-233/2219. 8-10=-235/2212 **WEBS** $3-15=0/302,\ 3-13=-714/288,\ 11-13=-64/1151,\ 5-11=-234/1125,\ 7-11=-859/250$

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=25ft; 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 14-9-8, Exterior(2R) 14-9-8 to 17-9-8, Interior(1) 17-9-8 to 29-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=233, 9=209.
- 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.



29-7-0



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB29266MMIT, MISSOURI 09/15/2022 urle 2/all 6:26

SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qty Ply 154112202 Hip Job Reference (optional)

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:36:54 2022 Page 1 Valley Center, KS - 67147, ID: LPot ITLm 4OEbuD1GvqyHHByhHl8-s? 4Uo7oUdx?x7ekvbZ9svGcoJ8veqWztXO8wGqyfP7t13-0-5 16-6-11 22-11-8 29-7-0 3-6-7 6-4-13 6-4-13

Scale = 1:57.6 5x8 = 5x6 = 7.00 12 3x6 / 3x6 💸 23 3x6 / 3x6 < 13 11 15 12 3x6 = 1.5x4 || 4x5 = 3x10 = 1.5x4 II 4x5 =

	6-7-8	13-0-5	16-6-11	22-11-8	29-7-0
	6-7-8	6-4-13	3-6-7	6-4-13	6-7-8
Plate Offsets (X,Y)	[2:0-0-0,0-0-8], [5:0-4-0,0-1-11], [9	:0-0-0,0-0-8]			
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 0.40 BC 0.48 WB 0.57 Matrix-AS	- ' '	in (loc) I/defl L/d -0.09 14-15 >999 240 -0.19 14-15 >999 180 0.08 9 n/a n/a	PLATES GRIP MT20 197/144 Weight: 128 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

WEBS

3x4 =

LUMBER-

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

2x4 SPF No.2 WEBS WEDGE

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

REACTIONS. (size) 2=0-3-8, 9=0-3-8 Max Horz 2=210(LC 11)

Max Uplift 2=-239(LC 12), 9=-239(LC 13)

Max Grav 2=1393(LC 1), 9=1393(LC 1)

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

TOP CHORD 2-3=-2145/348, 3-5=-1601/298, 5-6=-1277/309, 6-8=-1602/298, 8-9=-2145/348 **BOT CHORD** 2-15=-331/1757, 14-15=-331/1757, 12-14=-124/1275, 11-12=-190/1757, 9-11=-190/1757

WFBS 3-15=0/262, 3-14=-600/245, 5-14=-90/421, 6-12=-84/406, 8-12=-599/245, 8-11=0/261

- 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=25ft; 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 13-0-5, Exterior(2E) 13-0-5 to 16-6-11, Exterior(2R) 16-6-11 to 20-9-10, Interior(1) 20-9-10 to 30-5-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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=239, 9=239,
- 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.
- 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.



Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

1 Row at midpt

September 12,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB29266MMIT, MISSOURI 09/15/2022 urle 2/all 6 e 2 6

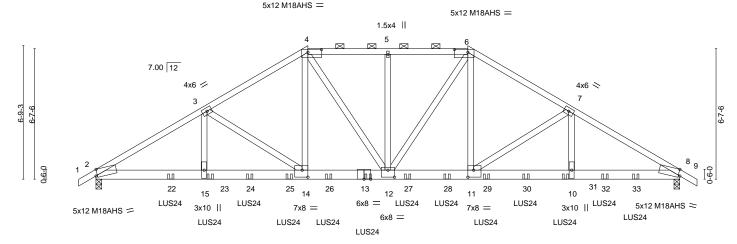
SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qtv Ply 154112203 Hip Girder Job Reference (optional)

Valley Center, KS - 67147,

5-3-2

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:36:56 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHl8-pNCECopk9YFfMyulj_CK_hh1LxZtlLqA?id1LjyfP7r 18-10-2 24-1-4 29-7-0 4-0-10

Scale = 1:58.4



14-9-8

4-0-10

		1 3-3-12	1	10-6-14	14-9-6	1 18-10-2	1		4-1-4	1 29-7-0	
		5-5-12	1	5-3-2	4-0-10	4-0-10	,	5	5-3-2	5-5-12	1
Plate Offse	ets (X,Y)	[2:0-0-15,Edge], [4:0-8-4,0	-1-12], [6:0-8	3-4,0-1-12], [8:0-	-0-15,Edge], [11:0-3	-8,0-4-4], [12:0-	-4-0,0-4	-4], [14:0-	3-8,0-4-4]		
LOADING	(psf)	SPACING-	2-0-0	CSI.	DE	FL. in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0	.87 Ve	rt(LL) -0.20	12-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0	.56 Ve	rt(CT) -0.35	12-14	>999	180	M18AHS	142/136
BCLL	0.0	Rep Stress Incr	NO	WB 0	.87 Ho	rz(CT) 0.11	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI	2014	Matrix-M	IS					Weight: 175 lb	FT = 20%
										_	

TOP CHORD

BOT CHORD

LUMBER-BRACING-

TOP CHORD 2x4 SP 2400F 2.0E *Except* 4-6: 2x4 SPF No.2

2x6 SP 2400F 2.0E BOT CHORD

2x4 SPF No.2 WEBS

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

Max Horz 2=-175(LC 27)

Max Uplift 2=-969(LC 8), 8=-1016(LC 9) Max Grav 2=3882(LC 1), 8=4093(LC 1)

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

TOP CHORD 2-3=-6752/1687, 3-4=-5480/1400, 4-5=-5028/1298, 5-6=-5028/1298, 6-7=-5476/1396,

7-8=-6829/1692

BOT CHORD 2-15=-1475/5756, 14-15=-1475/5756, 12-14=-1095/4639, 11-12=-1013/4634,

10-11=-1364/5829 8-10=-1364/5829

WFBS 3-15=-235/1031, 3-14=-1289/438, 4-14=-491/1809, 4-12=-277/835, 5-12=-414/160,

6-12=-284/845, 6-11=-484/1803, 7-11=-1382/450, 7-10=-243/1108

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=969, 8=1016
- 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 spaced at 2-0-0 oc max. starting at 3-9-8 from the left end to 27-4-4 to connect truss(es) to front 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

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

OF MISSO SCOTT M. SEVIER NUMBER PE-2001018807 SSIONAL

Structural wood sheathing directly applied or 2-9-5 oc purlins, except

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

Rigid ceiling directly applied or 8-6-4 oc bracing.

September 12,2022

Continued on page 2
WHATMING Vertile 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



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB2S2S6MMIT, MISSOURI 09/15/2022url-2/ail-6:26

Truss Type	Qty	Plv	SUMMIT/HAWTHORN RIDGE #177/MO	
71 -	,	,	1541122	กร
Hip Girder	1	1	1041122	.00
nip Girder	'			
			Job Reference (optional)	

Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:36:56 2022 Page 2 $ID: LPot ITLm 4OEbuD1Gvqy HHByhHl8-pNCECopk 9YFfMyulj_CK_hh1LxZtlLqA?id1LjyfP7r$

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-70, 4-6=-70, 6-9=-70, 16-19=-20

Concentrated Loads (lb)

Vert: 13=-393(F) 22=-530(F) 23=-388(F) 24=-388(F) 25=-388(F) 26=-393(F) 27=-393(F) 28=-393(F) 29=-388(F) 30=-388(F) 31=-377(F) 32=-377(F) 32=-3

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB2S256MMIT, MISSOURI 09/15/020/220urle2/alle@care7,

-0-10-8 0-10-8

SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qty Ply 154112204 Common Supported Gable Job Reference (optional)

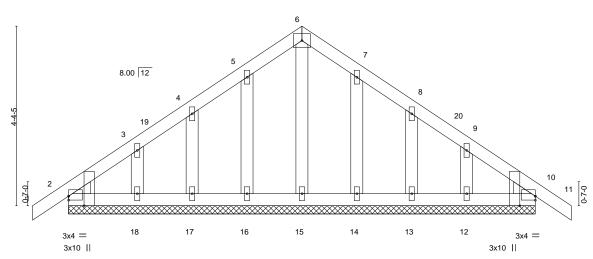
Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:09 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHl8-wuU9xF_u5YupQyNn_CwN0QkSvB7ErR95_DGDITyfP7e 12-2-8 0-10-8 5-8-0

Scale = 1:28.0 4x5 =

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

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



11-4-0 11-4-0

BRACING-

TOP CHORD

BOT CHORD

Plate Offs	sets (X,Y)	[2:0-0-0,0-1-2], [2:0-2-13	<u>,Edge], [10:Ed</u>	lge,0-1-2], [1	<u>0:0-2-13,Edç</u>	ge]							
LOADING	· /	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	11	n/r	120	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	11	n/r	120			
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	10	n/a	n/a			
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-S						Weight: 50 lb	FT = 20%	

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2 , Right: 2x4 SPF No.2

REACTIONS. All bearings 11-4-0.

Max Horz 2=-114(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 16, 17, 18, 14, 13, 12 All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13, 12

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=25ft; Cat. II; Exp C; Enclosed: MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 5-8-0, Corner(3R) 5-8-0 to 8-8-0, Exterior(2N) 8-8-0 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) 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 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 16, 17, 18, 14, 13, 12
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



September 12,2022





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 AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB2S256MMIT, MISSOURI 09/15/020/220urle2/alle@care7,

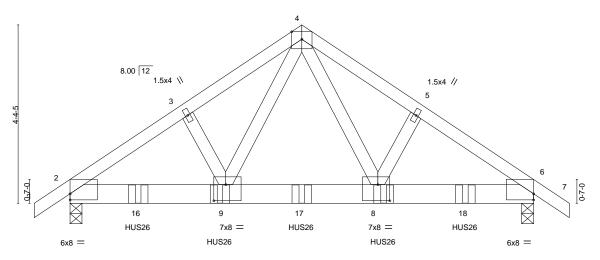
Ply SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qtv 154112205 Common Girder 2 Job Reference (optional)

Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:10 2022 Page 1 $ID: LPot ITLm 4OEbuD1Gvqy HHByhHl8-O42X8b_Wsr0g16y_XwScZeGatbIqap0EDt0nqvyfP7d$ 12-2-8 0-10-8 11-4-0 2-10-8

Scale = 1:28.2

5x6 =



11-4-0 3-9-11 3-8-10 3-9-11 Plate Offsets (X,Y)-- [2:0-0-0,0-1-13], [6:Edge,0-1-13], [8:0-3-8,0-4-12], [9:0-3-8,0-4-12]

Tidlo Offooto (71,1)	[2.0 0 0,0 1 10], [0.2 ago,0 1 10], [0	0 0,0 1 12j, [0.0 0 0,0 1 1	- j			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) -0	.05 8-9	>999	240
TCDL 10.0	Lumber DOL 1.15	BC 0.77	Vert(CT) -0	.10 8-9	>999	180
BCLL 0.0	Rep Stress Incr NO	WB 0.37	Horz(CT) 0	.02 6	n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS				

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-4-1 oc purlins.

PI ATES

Weight: 105 lb

MT20

GRIP

197/144

FT = 20%

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

LUMBER-

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

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

Max Horz 2=-114(LC 27)

Max Uplift 2=-700(LC 8), 6=-700(LC 9) Max Grav 2=4023(LC 1), 6=4023(LC 1)

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

TOP CHORD 2-3=-5340/925, 3-4=-5244/957, 4-5=-5244/958, 5-6=-5340/925

BOT CHORD 2-9=-776/4385, 8-9=-487/3052, 6-8=-717/4385

WFBS 4-8=-574/3052, 4-9=-574/3052

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: 2x6 - 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 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 2=700, 6=700.
- 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) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent at 1-8-0 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.
- 9) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 3-8-0 from the left end to 9-8-0 to connect truss(es) to front face of bottom chord.
- 10) 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

OF MISS SCOTT M. SEVIER PE-STONAL PE-NUMBER PE-2001018807

September 12,2022

Continued on page 2
WHATMING Vertile 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



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB2S2S6MMIT, MISSOURI 09/15/02/012t2ourle2/alle@e2e7,

SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qty Ply 154112205 Common Girder Job Reference (optional)

Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:10 2022 Page 2 $ID: LPot ITLm 4OEbuD1GvqyHHByhHl8-O42X8b_Wsr0g16y_XwScZeGatbIqap0EDt0nqvyfP7d$

LOAD CASE(S) Standard Uniform Loads (plf) Vert: 1-4=-70, 4-7=-70, 10-13=-20

Concentrated Loads (lb)

Vert: 8=-1381(F) 9=-1381(F) 16=-1381(F) 17=-1381(F) 18=-1381(F)

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB29266MMIT, MISSOURI 09/15/2022 wie Zalle Con 7,

Truss Type Qty SUMMIT/HAWTHORN RIDGE #177/MO Ply 154112206 Roof Special Job Reference (optional)

Valley Center, KS - 67147,

15

3x4 =

10-0-0

4-10-4

13-6-0

3-6-0

5x6 II

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:12 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHl8-LSAHZH0nOTGOHP6MfLU4e3MstOyC2dcXgBVtvoyfP7b 23-6-0 5-0-0 30-0-0 5-0-0

12

3x4 =

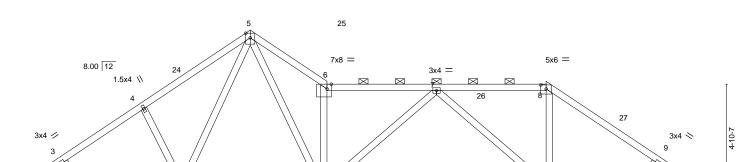
Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

Scale = 1:52.6

3x6 II



13

BRACING-

TOP CHORD

BOT CHORD

3x6 =

	1	0-10-12	1	13-6-0		I	23-0-0			30-0-0	1	
		6-10-12	ı	6-7-4		I	10-0-0			6-6-0	1	
Plate Of	fsets (X,Y)	[2:0-2-13,0-0-11], [6:0-2-	6,Edge], [8:0-3	3-0,0-2-3], [10	:0-3-13,Edg	ge]						
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	0.45	Vert(LL)	-0.29 12-14	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.63 12-14	>573	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.08 10	n/a	n/a			
BCDL	10.0	Code IRC2018/T	PI2014	Matrix	-AS					Weight: 127 lb	FT = 20%	

14

7x8 =

LUMBER-

4x6 ||

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

2x4 SPF No.2 WEBS

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

REACTIONS. (size) 2=0-3-8, 10=0-3-8 Max Horz 2=-189(LC 10)

Max Uplift 2=-194(LC 12), 10=-283(LC 13)

Max Grav 2=1411(LC 1), 10=1411(LC 1)

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

TOP CHORD 2-4=-1918/318, 4-5=-1809/369, 5-6=-2665/564, 6-7=-2206/420, 7-8=-1514/375, 8-10=-1938/375

BOT CHORD 2-15=-240/1532, 14-15=-96/1292, 12-14=-287/2096, 10-12=-182/1535

4-15=-273/204, 5-15=-156/383, 5-14=-443/1989, 6-14=-1707/426, 7-12=-781/195, WFBS

8-12=-37/695

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=25ft; 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 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 23-6-0, Exterior(2R) 23-6-0 to 26-6-0, Interior(1) 26-6-0 to 30-10-8 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=194, 10=283
- 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.
- 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.



September 12,2022

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

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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB292676MMIT, MISSOURI 09/15/2012@urle2/alle@care7,

-0-10-8 0-10-8

Qty SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Ply 154112207 Roof Special Job Reference (optional)

Valley Center, KS - 67147,

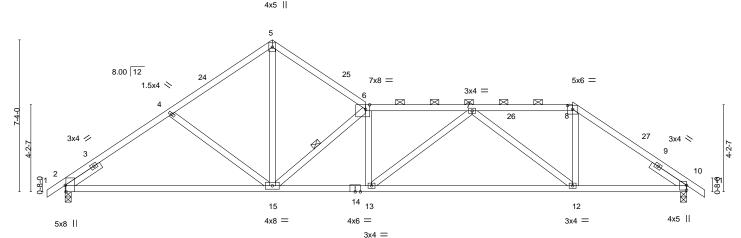
10-0-0

4-10-4

10-0-0

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:13 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHl8-pfkfnd1P9mOFvZhZD2?KAGu1foIAn3LgvrERREyfP7a 19-7-12 24-6-0 30-0-0 5-1-12 4-10-4 5-6-0

Scale = 1:55.6



14-6-0

4-6-0

14-6-0

	7-4-12	2-7-4	4-6-0	10-0-0	5-6-0
Plate Offsets (X,	Y) [2:0-3-13,Edge], [6:0-2-6,Edge],	[8:0-3-0,0-2-3]			
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 BC	0.45 \\ 0.85 \\ 0.72 \\	DEFL. in (loc) l/defl L/d Vert(LL) -0.28 12-13 >999 240 Vert(CT) -0.62 12-13 >578 180 Horz(CT) 0.10 10 n/a n/a	PLATES GRIP MT20 197/144 Weight: 124 lb FT = 20%

LUMBER-

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

2x4 SPF No.2 WEBS

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

BOT CHORD

WEBS

TOP CHORD Structural wood sheathing directly applied, except

1 Row at midpt

24-6-0

2-0-0 oc purlins (3-3-12 max.): 6-8. Rigid ceiling directly applied.

6-15

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

Max Horz 2=-189(LC 10)

Max Uplift 2=-194(LC 12), 10=-283(LC 13) Max Grav 2=1411(LC 1), 10=1411(LC 1)

7-4-12

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

TOP CHORD 2-4=-1894/328, 4-5=-1666/338, 5-6=-1666/325, 6-7=-2602/486, 7-8=-1547/365,

8-10=-1971/377

BOT CHORD 2-15=-246/1522, 13-15=-321/2603, 12-13=-354/2343, 10-12=-200/1574

4-15=-312/204, 7-13=-40/344, 7-12=-1014/199, 8-12=-59/779, 5-15=-248/1417, WFBS

6-15=-1722/403

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=25ft; 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 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 24-6-0, Exterior(2R) 24-6-0 to 27-6-0, Interior(1) 27-6-0 to 30-10-8 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=194, 10=283
- 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.
- 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.



30-0-0

September 12,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE2S256MMIT, MISSOURI 09/15/020/220urle2/alle@care7,

SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qtv Ply 154112208 Roof Special Girder Job Reference (optional)

Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:15 2022 Page 1

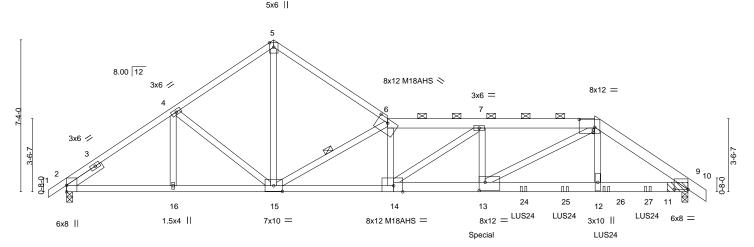
Structural wood sheathing directly applied or 2-5-14 oc purlins,

6-15

Rigid ceiling directly applied or 6-10-13 oc bracing.

ID:LPotITLm4OEbuD1GvqyHHByhHl8-I1rQCl2fhOey8tqxKT1oGh_I5c_WFv4zM9jYW6yfP7Y 10-0-0 15-6-0 20-0-12 25-6-0 30-0-0 5-6-0 4-6-12 4-6-0 4-10-4

Scale = 1:55.6



		5-1-12 ₁	10-0-0	15-6-0			20-0-12		I	25-6-0	30-0-0	
	1	5-1-12	4-10-4	5-6-0		ı	4-6-12			5-5-4	4-6-0	ı
Plate Offs	ets (X,Y)	[6:0-6-0,0-2-3], [8:0-9-0,	0-4-8], [9:0-8-0,	0-0-1], [13:0-3-8,0-4-12]], [14:0-5-4,	,Edge], [15:0-5-0	,0-3-4]				
LOADING	(psf)	SPACING-	2-0-0	CSI.	DE	EFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.78	Ve	ert(LL)	-0.36	14	>987	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.80	Ve	ert(CT)	-0.65	14	>554	180	M18AHS	142/136
BCLL	0.0	Rep Stress Incr	NO	WB 0.96	Ho	orz(CT)	0.14	9	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-MS							Weight: 161 lb	FT = 20%

BOT CHORD

WFBS

except

1 Row at midpt

2-0-0 oc purlins (2-9-12 max.): 6-8.

LUMBER-**BRACING-**TOP CHORD

TOP CHORD 2x4 SPF 1650F 1.5E *Except* 6-8: 2x6 SPF 2100F 1.8E, 8-10: 2x6 SPF No.2

2x6 SP 2400F 2.0E *Except* BOT CHORD

2-14: 2x4 SP 2400F 2.0E

2x4 SPF No.2 *Except* WFBS

6-15.8-13: 2x4 SPF 1650F 1.5E

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

REACTIONS. (size) 2=0-3-8, 9=(0-3-8 + bearing block) (req. 0-3-9)

Max Horz 2=-190(LC 27)

Max Uplift 2=-413(LC 8), 9=-973(LC 9) Max Grav 2=2419(LC 1), 9=4296(LC 1)

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

TOP CHORD 2-4=-3552/657, 4-5=-3366/719, 5-6=-3424/685, 6-7=-7928/1626, 7-8=-9457/2006,

8-9=-6803/1509

BOT CHORD 2-16=-520/2865, 15-16=-520/2865, 14-15=-1467/7835, 13-14=-1868/9460,

12-13=-1151/5567, 9-12=-1164/5621

WEBS 4-15=-356/260, 5-15=-652/3299, 6-15=-5920/1324, 6-14=-280/1072, 7-14=-2020/693,

7-13=-602/907, 8-13=-824/4477, 8-12=-277/1158

NOTES- Continued on page 2

- 1) 2x6 SP 2400F 2.0E bearing block 12" long at it. 9 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SP 2400F 2.0E.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 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=413, 9=973,
- 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 LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 22-0-12 from the left end to 28-0-12 to connect truss(es) to front face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber

20-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
WARNING - Verity design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-(473 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 Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



OF MISS



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB28266MMIT, MISSOURI 09/15/02/012t2ourle2/alle@e2e7,

Truss Type	Qty	Plv	SUMMIT/HAWTHORN RIDGE #177/MO	
71 -	,	,	15	4112208
5 (0) (0)			IO	7112200
Roof Special Girder	1	1		
			Job Reference (optional)	

Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:15 2022 Page 2 ID:LPotITLm4OEbuD1GvqyHHByhHl8-I1rQCl2fhOey8tqxKT1oGh_I5c_WFv4zM9jYW6yfP7Y

NOTES-

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

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

Vert: 1-5=-70, 5-6=-70, 6-8=-70, 8-10=-70, 17-21=-20

Concentrated Loads (lb)

Vert: 13=-2198(F) 24=-426(F) 25=-426(F) 26=-421(F) 27=-421(F)



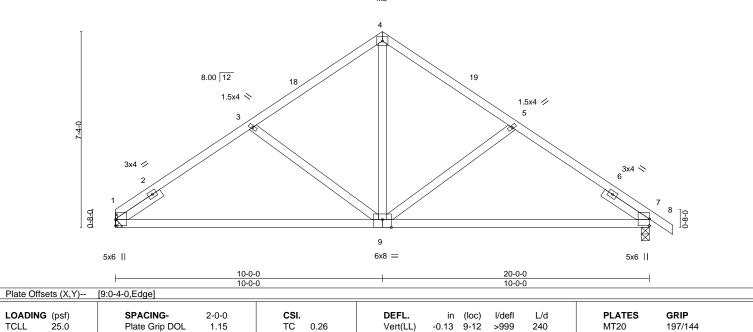
RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB292676MMIT, MISSOURI 09/15/0201220urle2/alle@care7,

SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qty Ply 154112209 Common 5 Job Reference (optional)

ID:LPotITLm4OEbuD1GvqyHHByhHl8-DEPoPe3HShmpm1P8uBZ1ovWbp?MK_Yq7bpT52ZyfP7X 10-0-0 20-10-8 0-10-8 14-10-4 20-0-0 4-10-4 4-10-4 5-1-12

> Scale = 1:43.2 4x5 =

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:16 2022 Page 1



Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.27

0.02

9-12

>877

n/a

Rigid ceiling directly applied.

180

n/a

Structural wood sheathing directly applied.

Weight: 77 lb

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

WEBS

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

10.0

0.0

10.0

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

REACTIONS.

(size) 1=Mechanical, 7=0-3-8

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

Max Horz 1=-184(LC 8)

Max Uplift 1=-138(LC 12), 7=-159(LC 13) Max Grav 1=899(LC 1), 7=963(LC 1)

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

1-3=-1040/221, 3-4=-916/206, 4-5=-916/205, 5-7=-1037/219 TOP CHORD

1-9=-199/943, 7-9=-91/925 **BOT CHORD**

WEBS 4-9=-93/570, 5-9=-341/212, 3-9=-345/213

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=25ft; 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 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 20-10-8 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

BC

WB

Matrix-AS

0.70

0.23

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

1.15

YES

Valley Center, KS - 67147,

- 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) except (jt=lb) 1=138 7=159
- This truss 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.



September 12,2022



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

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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB292676MMIT, MISSOURI 09/15/2012@urle2/alle@care7,

SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qtv Ply 154112210 Common Supported Gable Job Reference (optional)

Valley Center, KS - 67147,

10-0-0

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:18 2022 Page 1 ID: LPotITLm 4OEbuD1GvqyHHByhHI8-9cXYqK4YzJ1X?KZW?bbVtKc?cpC6SV1P37yC7RyfP7V20-10-8 0-10-8

Scale = 1:46.4

10 11 8.00 12 34 35 13 14 15 16 17 3x4 // 3x4 💉 36 37 3x4 II 3x4 II 32 30 29 28 26 23 22 21 20 5x6 =

4x5 =

10-0-0 20-0-0 10-0-0 10-0-0 Dieta Officata (V V)

Plate Offs	sets (X,Y)	[26:0-3-0,0-3-0]										
LOADING	(psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	18	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	18	n/r	120		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	014	Matri	x-S						Weight: 117 lb	FT = 20%

BRACING-

LUMBER-TOP CHORD TOP CHORD 2x4 SPF No.2 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. **JOINTS** 1 Brace at Jt(s): 33, 36, 37 2x4 SPF No.2 WEBS

2x4 SPF No.2 **OTHERS**

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

REACTIONS. All bearings 20-0-0

Max Horz 2=189(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 27, 28, 29, 30, 31, 24, 23, 22, 21, 20, 18 except

Max Grav All reactions 250 lb or less at joint(s) 2, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20, 18, 26

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=25ft; 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 10-0-0, Corner(3R) 10-0-0 to 13-0-0, Exterior(2N) 13-0-0 to 20-10-8 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) 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 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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) 2, 27, 28, 29, 30, 31, 24, 23, 22, 21, 20, 18 except (jt=lb) 32=104.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 18.
- 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.



September 12,2022

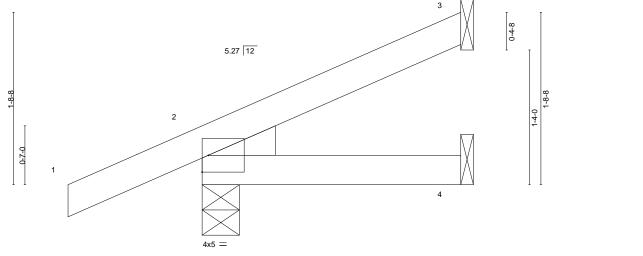


RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB29266MMIT, MISSOURI 09/15/02012t2ourte2/alle@caze7,

Qty SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Ply 154112211 Jack-Open Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:19 2022 Page 1 Valley Center, KS - 67147,

ID:LPotITLm4OEbuD1GvqyHHByhHl8-ep5x1g5Akc9OdU8iZJ6kQX88HDYABy4ZHnhlfuyfP7U

Scale = 1:11.4



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DE	FL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.12	Ver	t(LL) -0	0.00	7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Ver	(CT) -0	0.00	7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Hor	z(CT) (0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	I2014	Matri	x-MP							Weight: 9 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 3=Mechanical, 2=0-4-7, 4=Mechanical

Max Horz 2=65(LC 12)

Max Uplift 3=-31(LC 12), 2=-49(LC 12), 4=-1(LC 12) Max Grav 3=61(LC 1), 2=230(LC 1), 4=41(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=25ft; 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.



Structural wood sheathing directly applied or 2-6-12 oc purlins.

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



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB2S2S6MMIT, MISSOURI 09/15/2012@urle2/alle@care7,

SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qtv Ply 154112212 Diagonal Hip Girder Job Reference (optional)

-1-3-15 1-3-15

Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:20 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHl8-6?fJF06oVwHFEejv70dzylhGFdrkwPKiWQRJBKyfP7T

Structural wood sheathing directly applied or 4-7-11 oc purlins.

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

Scale: 3/4"=1"

5.27 12 NAILED 8 2-2-15 0-2-0 9 NAILED

4-7-11 LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. I/defl L/d in (loc) Plate Grip DOL Vert(LL) 197/144 **TCLL** 25.0 1.15 TC 0.30 0.03 4-7 >999 240 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.22 Vert(CT) -0.05 4-7 >999 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.01 2 n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MP Weight: 14 lb FT = 20%

4-7-11

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 3=Mechanical, 2=0-4-7, 4=Mechanical

Max Horz 2=102(LC 8)

Max Uplift 3=-65(LC 8), 2=-59(LC 8)

Max Grav 3=132(LC 1), 2=312(LC 1), 4=83(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) 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) "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: 1-3=-70, 4-5=-20 Concentrated Loads (lb) Vert: 9=0(F)



September 12,2022



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, rerection and bracing of trusses and truss systems, see

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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE2S2S6MMIT, MISSOURI 09/15/d20i2t2ourle2/alle6cene7,

Ply Qty SUMMIT/HAWTHORN RIDGE #177/MO Truss Type 154112213 Jack-Open Job Reference (optional)

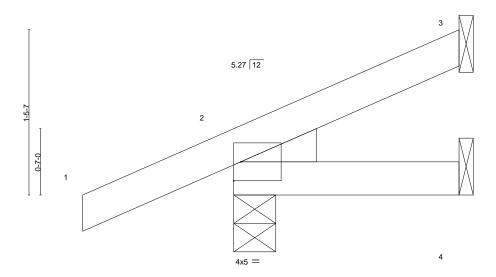
8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:21 2022 Page 1

Structural wood sheathing directly applied or 1-11-12 oc purlins.

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

ID:LPotITLm4OEbuD1GvqyHHByhHl8-aBDhSM7QGEP6sol5hk8CVyDUn0Dwfsasl4BsjmyfP7S 1-11-12 1-3-15

Scale = 1:10.1



		1-11-12										
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	0.12	Vert(LL)	-0.00	7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	ВС	0.03	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/TI	PI2014	Matri	x-MP	` ′					Weight: 7 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

1-11-12

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 3=Mechanical, 2=0-4-7, 4=Mechanical

Max Horz 2=56(LC 12)

Max Uplift 3=-22(LC 12), 2=-48(LC 12) Max Grav 3=41(LC 1), 2=213(LC 1), 4=30(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=25ft; 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.

Valley Center, KS - 67147,

- 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.



September 12,2022



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

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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

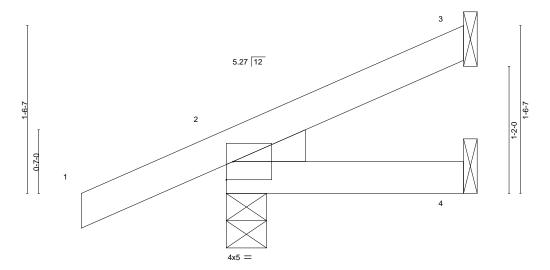


RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB2S2S6MMIT, MISSOURI 09/15/d20i2t2ourle2/alle6cene7,

Qty SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Ply 154112214 Jack-Open Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:22 2022 Page 1 Valley Center, KS - 67147,

-1-3-15

Scale = 1:10.6



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 0.12	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: 8 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 3=Mechanical, 2=0-4-7, 4=Mechanical

Max Horz 2=58(LC 12)

Max Uplift 3=-25(LC 12), 2=-48(LC 12)

Max Grav 3=46(LC 1), 2=217(LC 1), 4=33(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=25ft; 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.



September 12,2022



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

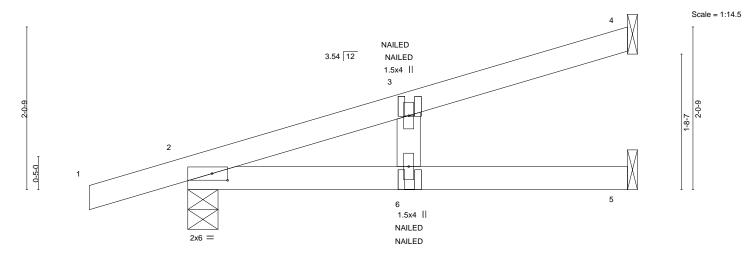
Rigid ceiling directly applied or 10-0-0 oc bracing.

SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qtv Ply 154112215 Diagonal Hip Girder Job Reference (optional)

Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:23 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHI8-WaKRt18gorfq55SUo9BgaNJmnqpP7mw8COgzofyfP7Q

1-2-14 2-11-1



5-6-6 Plate Offsets (X,Y)-- [2:0-2-6,0-1-0] LOADING (psf) SPACING-PI ATES GRIP 2-0-0 CSI. DEFL. in (loc) I/defl I/d TCLL 25.0 Plate Grip DOL 1.15 TC 0.35 Vert(LL) -0.06 6 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.41 Vert(CT) -0.12 >570 180 n/a

TOP CHORD

BCLL 0.0 Rep Stress Incr NO WB 0.01 **BCDL** 10.0 Code IRC2018/TPI2014 Matrix-MP

Horz(CT) 0.01 2 n/a **BRACING-**

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

Weight: 15 lb

FT = 20%

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

LUMBER-TOP CHORD

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

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

Max Horz 2=86(LC 4)

Max Uplift 4=-53(LC 8), 2=-103(LC 4), 5=-10(LC 8) Max Grav 4=146(LC 1), 2=347(LC 1), 5=95(LC 1)

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

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) 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 except (jt=lb)
- 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, 5-7=-20 Concentrated Loads (lb)

Vert: 6=-10(F=-5, B=-5)



September 12,2022







SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qtv Ply 154112216 Jack-Open Girder Job Reference (optional)

Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:24 2022 Page 1 $ID: LPot ITLm 4OEbuD1Gvqy HHByhHl8-_mup5N9IZ9nhjF1gMsiv7bryHEC_sDJIR2PWK5yfP7Particle for the property of th$

Structural wood sheathing directly applied or 3-11-5 oc purlins.

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

-1-11-8

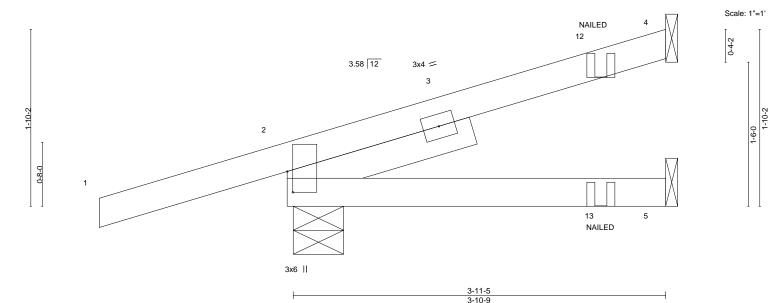


Plate Off	sets (X,Y)	[2:0-2-10,0-0-11]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.01	5-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.01	5-10	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	ix-MP						Weight: 14 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS.

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

Max Horz 2=79(LC 4)

Max Uplift 4=-41(LC 8), 2=-144(LC 4) Max Grav 4=79(LC 1), 5=57(LC 3), 2=377(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) 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 except (jt=lb)
- 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, 5-6=-20 Concentrated Loads (lb) Vert: 13=4(B)



September 12,2022

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



Qty SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Ply 154112217 Jack-Closed Girder Job Reference (optional)

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:26 2022 Page 1

Scale = 1:22.6

ID:LPotlTLm4OEbuD1GvqyHHByhHl8-w90aV3BZ5m1OyZA3THkNC0xDm1puKzqbuMudP_yfP7N

10-0-0 2-11-10

2x4 || 5 4.00 12 6x8 = 3 12 4x6 = 4x12 =13 15 14 7 9 8 4x12 | 12x14 = 5x8 = 6

6-8-14 10-0-0 3-9-3 2-11-10 3 - 3 - 2[1:0-1-11 0-0-3] [8:0-3-8 0-6-0]

BOT CHORD

Plate Offsets (A, f)	[1.0-1-11,0-0-3], [0.0-3-0,0-0-0]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	n (loc)	l/defl	L/d	
TCLL 25.0	Plate Grip DOL 1.15	TC 0.62	Vert(LL) -0.0	8 9	>999	240	
TCDL 10.0	Lumber DOL 1.15	BC 0.56	Vert(CT) -0.1	3 9	>864	180	
BCLL 0.0	Rep Stress Incr NO	WB 0.70	Horz(CT) 0.0	2 7	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS					

LUMBER-**BRACING-**TOP CHORD

Valley Center, KS - 67147,

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

REACTIONS. (size) 1=0-3-8, 7=Mechanical

Max Horz 1=143(LC 5)

Max Uplift 1=-377(LC 4), 7=-410(LC 4) Max Grav 1=2169(LC 1), 7=2219(LC 1)

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

TOP CHORD 1-2=-4731/819, 2-3=-2630/459

BOT CHORD 1-9=-805/4472, 8-9=-805/4472, 7-8=-429/2479

WFBS 2-9=-187/1276, 2-8=-2133/405, 3-8=-372/2315, 3-7=-3006/561

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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) except (jt=lb) 1=377, 7=410.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 879 lb down and 158 lb up at 2-0-12, 879 lb down and 158 lb up at 4-0-12, and 879 lb down and 158 lb up at 6-0-12, and 879 lb down and 158 lb up at 8-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

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

Concentrated Loads (lb) Vert: 9=-879 13=-879 14=-879 15=-879

OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 SSIONAL

GRIP

197/144

FT = 20%

PLATES MT20

Weight: 56 lb

Structural wood sheathing directly applied or 2-4-7 oc purlins,

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

except end verticals.

September 12,2022



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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



Qty SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Ply 154112218 Jack-Closed Job Reference (optional)

Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:27 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHl8-PLayjPBBs49FajlF1_FclDTQPR8M3YOk70eAxQyfP7M

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

6-2-10 6-2-10 10-0-0

Scale = 1:22.5

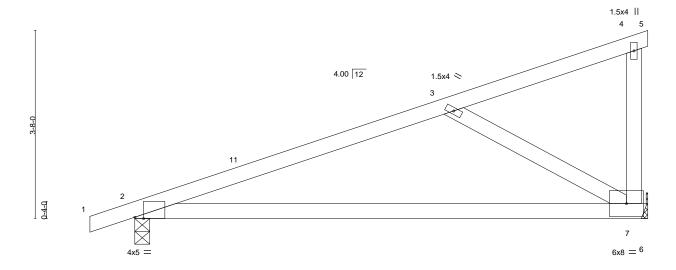


Plate Offsets (X,Y)	[2:0-2-1,Edge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.50	Vert(LL) -0.17 7-10 >678 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.54	Vert(CT) -0.37 7-10 >316 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.17	Horz(CT) 0.01 7 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 33 lb FT = 20%

10-0-0 10-0-0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=154(LC 11)

Max Uplift 2=-126(LC 8), 7=-113(LC 8) Max Grav 2=502(LC 1), 7=446(LC 1)

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

TOP CHORD 2-3=-595/214 **BOT CHORD** 2-7=-332/540 WEBS 3-7=-556/338

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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 10-0-0 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
- 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) except (jt=lb) 2=126, 7=113.
- 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.



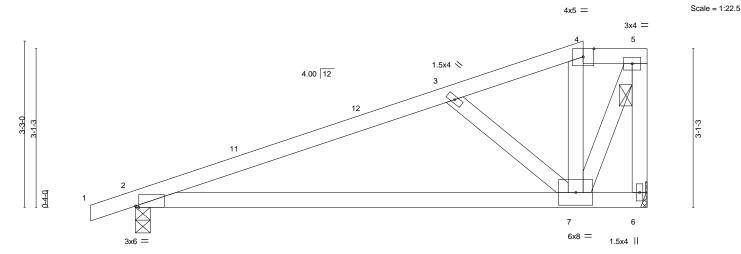
September 12,2022



Qty SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Ply 154112219 Half Hip Job Reference (optional)

Valley Center, KS - 67147, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:28 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHl8-tX8KwlCpdNH6CtKRbimrHR0curVeo0MuMgNkTsyfP7L

-0-10-8 0-10-8 10-0-0 1-3-0



10-0-0 1-3-0 Dieta Officata (V V)

Plate Ons	sets (X,Y)	[2:0-0-13,Eage]			
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 0.39	Vert(LL) -0.09 7-10 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.47	Vert(CT) -0.21 7-10 >563 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.01 6 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 37 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

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

> Max Horz 2=130(LC 11) Max Uplift 6=-106(LC 8), 2=-132(LC 8) Max Grav 6=441(LC 25), 2=507(LC 1)

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

TOP CHORD 2-3=-636/220, 3-4=-278/103, 5-6=-553/216

BOT CHORD 2-7=-362/575

WEBS 3-7=-469/313, 5-7=-208/513

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=25ft; 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 8-9-0, Exterior(2E) 8-9-0 to 9-10-4 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) 6=106 2=132
- 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.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 4-5. Rigid ceiling directly applied.

September 12,2022



SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qtv Ply 154112220 Half Hip Girder Job Reference (optional)

Valley Center, KS - 67147,

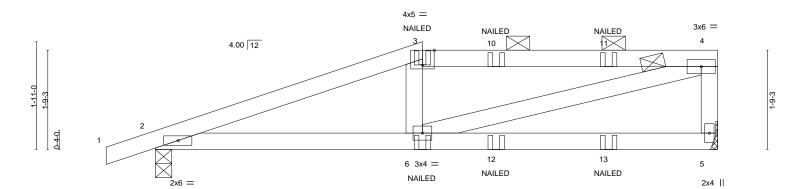
8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:29 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHl8-Lkhi85DROhPzp0vd9PH4qeZn8FtRXSi1bK7H?lyfP7K 10-0-0

Structural wood sheathing directly applied or 5-11-13 oc purlins,

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

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

Scale = 1:20.5



	-	4-9-0 4-9-0		10-0-0 5-3-0	
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 NO Code IRC2018/TPI2014	CSI. TC 0.42 BC 0.37 WB 0.18 Matrix-MS	DEFL. in Vert(LL) -0.03 Vert(CT) -0.05 Horz(CT) 0.01	(loc) I/defl L/d 6-9 >999 240 5-6 >999 180 5 n/a n/a	PLATES GRIP MT20 197/144 Weight: 33 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2 WEBS

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

Max Horz 2=71(LC 7)

Max Uplift 5=-125(LC 4), 2=-152(LC 4) Max Grav 5=441(LC 1), 2=509(LC 1)

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

TOP CHORD 2-3=-859/229, 3-4=-803/244, 4-5=-392/137

BOT CHORD 2-6=-204/793 **WEBS** 4-6=-209/747

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=25ft; Cat. II; Exp C; Enclosed: MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) 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) 5=125, 2=152.
- 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, 5-7=-20

Concentrated Loads (lb)

Vert: 6=-5(B) 12=1(B) 13=1(B)



September 12,2022



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-0-10-8 0-10-8

SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qtv Ply 154112221 Hip Girder Job Reference (optional)

Valley Center, KS - 67147,

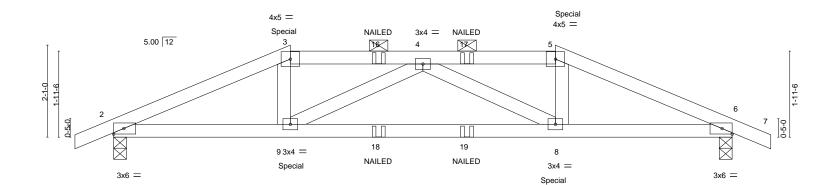
8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:31 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHI8-H6pTZmFhwlfh3K30GqKYv3e9S2Sx?MLK2ecO4ByfP7I 14-10-8 10-0-0 14-0-0 4-0-0

Structural wood sheathing directly applied or 4-0-15 oc purlins,

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

Rigid ceiling directly applied or 8-0-9 oc bracing.

Scale = 1:26.1



7-0-0 3-0-0

	4-0-0 4-0-0	7-0-0 3-0-0	10-0-0 3-0-0	14-0-0 4-0-0	4
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.30 BC 0.82 WB 0.11 Matrix-MS	DEFL. in (loc) l/defl Vert(LL) -0.10 8-9 >999 Vert(CT) -0.21 8-9 >811 Horz(CT) 0.04 6 n/a	240 MT20 197/14 180 n/a	44 = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD 2x4 SPF No.2 WEBS

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

Max Horz 2=34(LC 29)

Max Uplift 2=-253(LC 8), 6=-253(LC 9) Max Grav 2=966(LC 1), 6=966(LC 1)

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

TOP CHORD 2-3=-1922/496, 3-4=-1698/473, 4-5=-1698/473, 5-6=-1922/496

BOT CHORD 2-9=-435/1733, 8-9=-541/2024, 6-8=-415/1733

WEBS 3-9=-81/447, 5-8=-81/447, 4-9=-415/150, 4-8=-415/150

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=25ft; Cat. II; Exp C; Enclosed: MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) 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) 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) 140 lb down and 120 lb up at 4-0-0, and 140 lb down and 120 lb up at 10-0-0 on top chord, and 113 lb down and 63 lb up at 4-0-0, and 113 lb down and 63 lb up at 9-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-70, 3-5=-70, 5-7=-70, 10-13=-20

Concentrated Loads (lb)

Vert: 3=-82(B) 5=-82(B) 9=-113(B) 8=-113(B) 16=-34(B) 17=-34(B) 18=-46(B) 19=-46(B)



September 12,2022

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 AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB292676MMIT, MISSOURI

-0-10-8 0-10-8

SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qty Ply 154112222 Hip Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:32 2022 Page 1 Valley Center, KS - 67147,

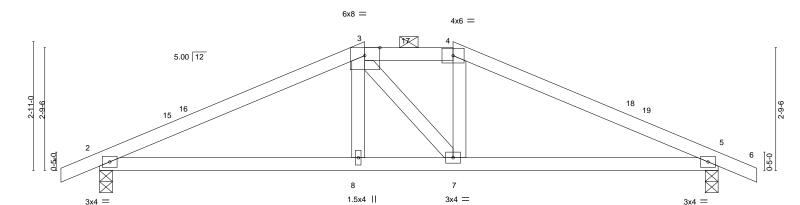
ID:LPotITLm4OEbuD1GvqyHHByhHl8-IJNrm6FKgcnYgUeCqYrnSHBJBSuxkqaTHILxcdyfP7H 14-0-0 14-10-8 2-0-0

Structural wood sheathing directly applied, except

2-0-0 oc purlins (5-10-10 max.): 3-4.

Rigid ceiling directly applied.

Scale = 1:26.1



	<u> </u>	6-0-0		8-0-0	+	14-0-0	
Dioto Offic	sets (X,Y)	[3:0-4-2,Edge]		2-0-0		6-0-0	
Plate Oils	sets (A, Y)	[3:0-4-2,Edge]					
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 0.37	Vert(LL)	-0.04 8-11 >999	240 MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.39	Vert(CT)	-0.08 8-11 >999	180	
BCLL	0.0	Rep Stress Incr YES	WB 0.05	Horz(CT)	0.01 5 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 44	4 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

2x4 SPF No.2 WEBS

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

Max Horz 2=-49(LC 13)

Max Uplift 2=-128(LC 12), 5=-128(LC 13) Max Grav 2=691(LC 1), 5=691(LC 1)

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

TOP CHORD 2-3=-1053/298, 3-4=-905/323, 4-5=-1053/298 **BOT CHORD** 2-8=-195/910, 7-8=-196/904, 5-7=-197/910

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=25ft; 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 6-0-0, Exterior(2E) 6-0-0 to 8-0-0, Exterior(2R) 8-0-0 to 12-2-15, Interior(1) 12-2-15 to 14-10-8 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=128, 5=128.
- 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.



September 12,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEB29266MMIT, MISSOURI

-0-10-8 0-10-8

SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qtv Ply 154112223 Common 3 Job Reference (optional)

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:34 2022 Page 1 Valley Center, KS - 67147, ID:LPotITLm4OEbuD1GvqyHHByhHl8-hhVbBoHaCD2GwonbxztFXiGcFGYACjimkcq2hWyfP7F

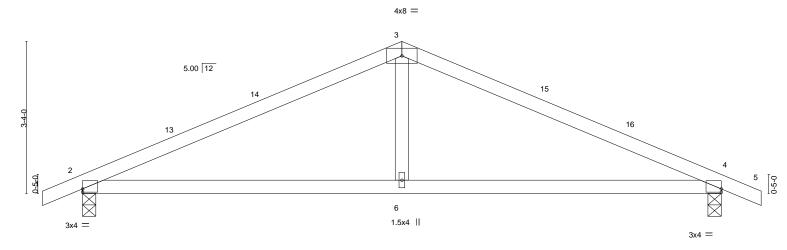
14-10-8 14-0-0 0-10-8

14-0-0

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

Scale = 1:25.3



			7-0-0			i				7-0-0		
Plate Offse	ets (X,Y)	[2:0-0-0,0-0-14], [4:Edge,	0-0-14]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.08	6-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.14	6-9	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-AS						Weight: 39 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

7-0-0

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

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

Max Horz 2=-58(LC 17)

Max Uplift 2=-127(LC 12), 4=-127(LC 13) Max Grav 2=691(LC 1), 4=691(LC 1)

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

TOP CHORD 2-3=-997/328, 3-4=-997/328 **BOT CHORD** 2-6=-192/846, 4-6=-192/846

WEBS 3-6=0/312

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=25ft; 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 7-0-0, Exterior(2R) 7-0-0 to 10-0-0, Interior(1) 10-0-0 to 14-10-8 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) 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=127, 4=127.
- 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.



September 12,2022

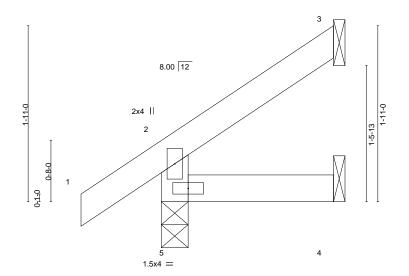


Qty SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Ply 154112224 Jack-Open 2 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:35 2022 Page 1

ID:LPotITLm4OEbuD1GvqyHHByhHl8-Au3_O8ICzXA7XxMnVgOU3vpt?g?6xB2wzGabDyyfP7E -0-10-8 1-10-8 0-10-8 1-10-8

Valley Center, KS - 67147,

Scale = 1:12.5



1-10-8 LOADING (psf) SPACING-DEFL. 2-0-0 **PLATES** GRIP CSI L/d in (loc) I/defl Plate Grip DOL Vert(LL) 197/144 **TCLL** 25.0 1.15 TC 0.07 -0.005 >999 240 MT20 TCDL 10.0 Lumber DOL 1.15 ВC 0.04 Vert(CT) -0.00 5 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MR Weight: 6 lb FT = 20%

1-10<u>-8</u>

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2 WEBS

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

Max Horz 5=64(LC 12)

Max Uplift 3=-37(LC 12), 4=-2(LC 12), 5=-20(LC 12) Max Grav 3=49(LC 19), 4=31(LC 3), 5=170(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=25ft; 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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

except end verticals.

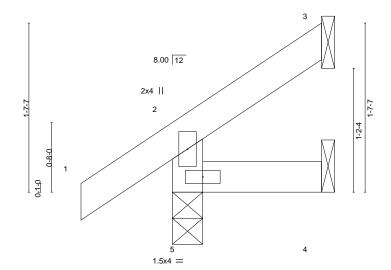
September 12,2022



Truss Type Qty SUMMIT/HAWTHORN RIDGE #177/MO Ply 154112225 Jack-Open Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:36 2022 Page 1 Valley Center, KS - 67147,

ID:LPotITLm4OEbuD1GvqyHHByhHl8-e4dMcUlqkrl_95x_3Nvjc7L2h3LZgel3CwJ9lPyfP7D -0-10-8 1-5-3 1-5-3 0-10-8

Scale = 1:11.0



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	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC (0.02	Vert(CT)	-0.00	5	>999	180		
BCLL	0.0	Rep Stress Incr YES	WB (0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-N	MR	. ,					Weight: 5 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

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

Max Horz 5=52(LC 12)

Max Uplift 3=-26(LC 12), 4=-2(LC 12), 5=-21(LC 12) Max Grav 3=29(LC 19), 4=22(LC 3), 5=157(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=25ft; 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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 1-5-3 oc purlins,

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

except end verticals.

September 12,2022



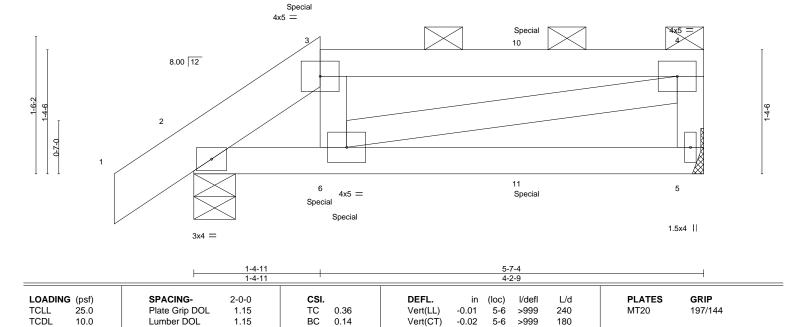
Truss Type Qty SUMMIT/HAWTHORN RIDGE #177/MO Ply 154112226 Half Hip Girder 2 Job Reference (optional)

Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:37 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHl8-6GAkpqJSV8QrnFWAd5Ry9Ku9_Tf_P5bCQa3iHryfP7C

-0-10-8 0-10-8

Scale = 1:12.7



Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

5

n/a

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

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

Structural wood sheathing directly applied or 5-7-4 oc purlins,

LUMBER-

BCLL

BCDL

2x6 SPF No.2 *Except* TOP CHORD

3-4: 2x4 SPF No.2

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

0.0

10.0

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

Max Horz 2=51(LC 7)

Max Uplift 5=-59(LC 5), 2=-78(LC 8) Max Grav 5=242(LC 1), 2=314(LC 1)

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=-319/53

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60

WB

Matrix-MP

0.06

- 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.

NO

- 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, 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) 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) 73 lb down and 60 lb up at 1-4-10, and 59 lb down and 31 lb up at 3-8-0 on top chord, and 9 lb down and 7 lb up at 1-4-10, and 12 lb down at 1-8-0, and 12 lb down at 3-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-4=-70, 5-7=-20

Concentrated Loads (lb) Vert: 6=-3(B) 11=-2(B)

OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 SSIONAL

Weight: 23 lb

FT = 20%

September 12,2022



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



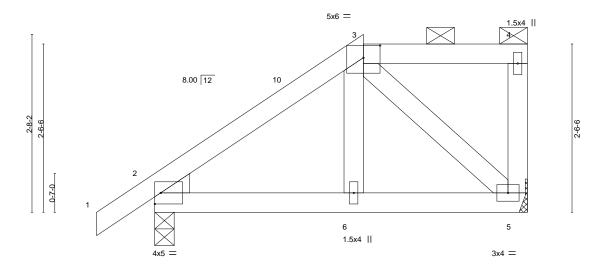
Qty SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Ply 154112227 Half Hip Job Reference (optional)

Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:38 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHl8-aTk61AK4GSYiOP5MAoyBhYROvt018Y7MfEoFqHyfP7B

-0-10-8 3-1-10

Scale = 1:17.3



		-	3-1-10 3-1-10		+	5-7-4 2-5-10	 1
Plate Offsets (X,Y)	[3:0-3-0,0-2-3]						
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 YES	CSI. TC 0.10 BC 0.09 WB 0.04	Vert(CT) -	in (loc) -0.00 6-9 -0.01 6-9 -0.00 2	l/defl L/d >999 240 >999 180 n/a n/a	PLATES GRIP MT20 197/144

BRACING-

TOP CHORD

BOT CHORD

2-0-0 oc purlins: 3-4.

Rigid ceiling directly applied.

Matrix-AS

LUMBER-TOP CHORD 2x4 SPF No.2

10.0

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

WEDGE

BCDL

Left: 2x4 SPF No.2

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

Max Horz 2=96(LC 11)

Max Uplift 2=-59(LC 12), 5=-57(LC 9) Max Grav 2=312(LC 1), 5=241(LC 1)

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

Code IRC2018/TPI2014

- 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=25ft; 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 3-1-10, Exterior(2E) 3-1-10 to 5-5-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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
- 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.



Weight: 23 lb

Structural wood sheathing directly applied, except end verticals, and

FT = 20%

September 12,2022



Qty SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Ply 154112228 Half Hip 2 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:39 2022 Page 1

ID:LPotITLm4OEbuD1GvqyHHByhHl8-2flUEVLj1mgY0ZgYkWTQElzXTHKQt?FVuuYpMjyfP7A -0-10-8 0-10-8 3-3-14 4-10-11 5-7-4 1-6-12

Scale = 1:24.4

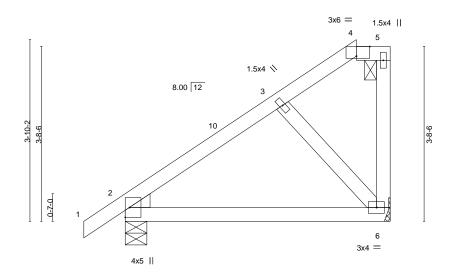


Plate Offsets (X,Y)-- [4:0-3-6,Edge] LOADING (psf) SPACING-DEFI PI ATES GRIP 2-0-0 CSI in (loc) I/defl I/d TCLL 25.0 Plate Grip DOL 1.15 TC 0.24 Vert(LL) -0.03 6-9 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 вс 0.20 Vert(CT) -0.05 6-9 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.01 2 n/a n/a **BCDL** 10.0 Code IRC2018/TPI2014 Matrix-AS Weight: 23 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

2-0-0 oc purlins: 4-5.

Rigid ceiling directly applied.

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 2=0-5-8, 6=Mechanical

Max Horz 2=142(LC 11)

Max Uplift 2=-55(LC 12), 6=-67(LC 12) Max Grav 2=312(LC 1), 6=241(LC 1)

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

3-6=-256/262

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=25ft; 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 4-10-11, Exterior(2E) 4-10-11 to 5-5-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

Valley Center, KS - 67147,

- 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.
- This truss 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.



Structural wood sheathing directly applied, except end verticals, and

September 12,2022

SIONAL

OF MISSO

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

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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



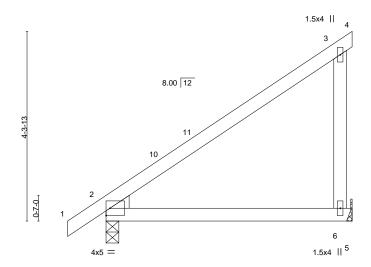
Truss Type Qty SUMMIT/HAWTHORN RIDGE #177/MO Ply 154112229 Jack-Closed 9 Job Reference (optional)

Valley Center, KS - 67147,

-0-10-8 0-10-8

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:40 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHI8-WrstRrMLo3oPejFIID_fmzWg8heJcSHf6YHMuAyfP79

Scale = 1:26.2



2-0-0 DEFL. CSI I/defl L/d in (loc) 1.15 TC 0.37 Vert(LL) 0.06 6-9 >999 240

TOP CHORD

BOT CHORD

Vert(CT) -0.09 6-9 >732 180 Horz(CT) 0.02 n/a

PLATES GRIP 197/144 MT20

Weight: 20 lb

Structural wood sheathing directly applied, except end verticals.

FT = 20%

BRACING-

Rigid ceiling directly applied.

LUMBER-

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

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

25.0

10.0

10.0

0.0

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=162(LC 11)

Max Uplift 6=-90(LC 12), 2=-43(LC 12) Max Grav 6=270(LC 19), 2=306(LC 1)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

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

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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 5-7-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

BC

WB

Matrix-AS

0.29

0.00

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

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) 6, 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



September 12,2022





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

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Truss Type Qty SUMMIT/HAWTHORN RIDGE #177/MO Ply 154112230 Jack-Open Job Reference (optional) Valley Center, KS - 67147, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:42 2022 Page 1

ID:LPotITLm4OEbuD1GvqyHHByhHl8-SE_dsXNbKh27t0P7Pe07sOb34UMQ4MYxasmTz2yfP77 4-0-0 1-10-5 1-10-5

Scale = 1:13.2

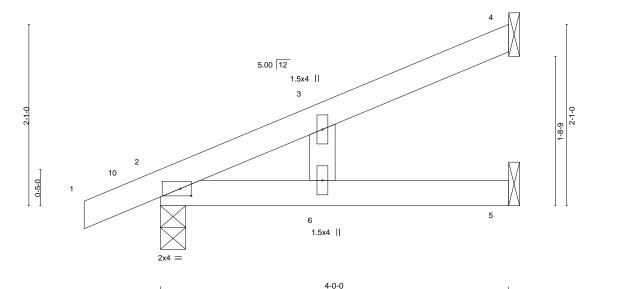


Plate Offs	sets (X,Y)	[2:0-1-8,0-1-0]											
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.02	6	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.03	6	>999	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	2	n/a	n/a			
BCDL	10.0	Code IRC2018/Ti	PI2014	Matr	x-MP						Weight: 11 lb	FT = 20%	

4-0-0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD 2x4 SPF No.2 WEBS

REACTIONS.

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

Max Horz 2=80(LC 12)

Max Uplift 4=-45(LC 12), 2=-47(LC 12), 5=-9(LC 12) Max Grav 4=104(LC 1), 2=245(LC 1), 5=68(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 1-10-5, Interior(1) 1-10-5 to 3-11-4 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) 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.



Structural wood sheathing directly applied or 4-0-0 oc purlins.

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

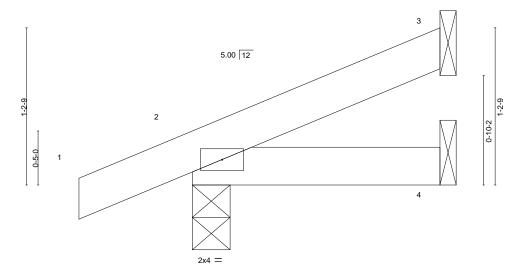
September 12,2022



Qty SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Ply 154112231 Jack-Open Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:43 2022 Page 1 Valley Center, KS - 67147,

ID:LPotlTLm4OEbuD1GvqyHHByhHl8-xQY?4tOD5_A_VAzKzLYMOb8GKuk9pp15pVW0VVyfP76 -0-10-8 1-10-15 0-10-8 1-10-15

Scale = 1:8.9



1-10-15 LOADING (psf) SPACING-2-0-0 DEFL. **PLATES** GRIP CSI I/defl L/d in (loc) Plate Grip DOL Vert(LL) 197/144 **TCLL** 25.0 1.15 TC 0.05 -0.00>999 240 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.02 Vert(CT) -0.00 7 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MP Weight: 6 lb FT = 20%

1-10-15

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

Max Horz 2=45(LC 12)

Max Uplift 3=-24(LC 12), 2=-36(LC 8)

Max Grav 3=49(LC 1), 2=161(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=25ft; 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 1-10-15 oc purlins.

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

September 12,2022





Truss Type SUMMIT/HAWTHORN RIDGE #177/MO Qty Ply 154112232 Half Hip Girder Job Reference (optional)

Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:44 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHl8-Pc5NHDPrsIIr7KYWX33bxogPFI1PYEOE19Fa1xyfP75

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

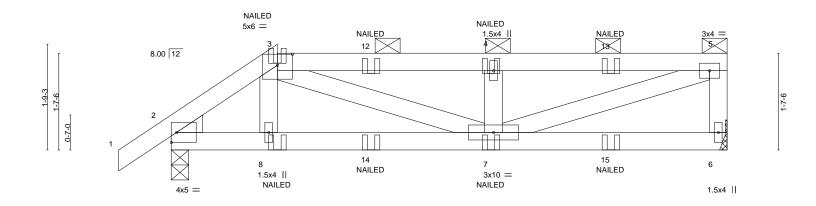
except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.

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

-0-10-8

9-3-4 3-10-12

Scale = 1:19.2



		1-9-4			5-4-						-3-4	
Dieta Officata	(V V) [2.0	1-9-4	· · ·		3-7-	-4	· ·			3-1	10-12	
Plate Offsets	(X,Y) [3:0)-3-0,0-2-3]										
LOADING (ps	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL 25	.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.02	7	>999	240	MT20	197/144
TCDL 10	.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.03	7-8	>999	180		
BCLL 0	0.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10	.0	Code IRC2018/TP	12014	Matri	x-MS						Weight: 35 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=59(LC 7)

Max Uplift 6=-106(LC 5), 2=-99(LC 8) Max Grav 6=416(LC 1), 2=484(LC 1)

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

TOP CHORD 2-3=-548/121, 3-4=-762/195, 4-5=-760/193, 5-6=-372/116

BOT CHORD 2-8=-132/445. 7-8=-134/444

WFBS 3-7=-103/354, 4-7=-292/134, 5-7=-198/753

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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 except (jt=lb) 6=106.
- 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 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: 8=-5(B) 7=-4(B) 14=-4(B) 15=-4(B)



September 12,2022

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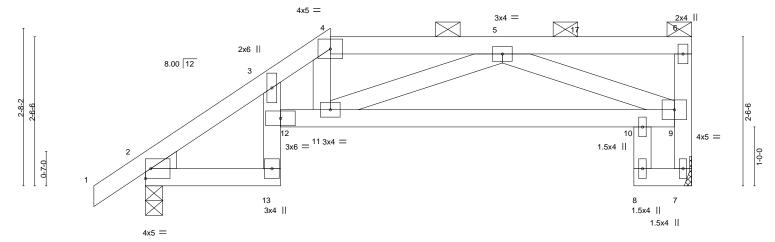
-0-10-8

Qty SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Ply 154112233 HALF HIP Job Reference (optional)

Valley Center, KS - 67147, 3-1-10 0-10-2

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:46 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHl8-L?D8ivQ6NvYZMeiveU530Dmkn5d908cXVTkh6pyfP73 7-3-8 9-3-4 2-11-1 1-11-12

Scale = 1:19.6



	2-3-8	0-10-2	7-3-8 4-1-14	1-0-0 0-11-12
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 0.23 BC 0.52 WB 0.14 Matrix-AS	DEFL. in (loc) l/defl L/d Vert(LL) -0.03 10-11 >999 240 Vert(CT) -0.06 10-11 >999 180 Horz(CT) 0.05 7 n/a n/a	PLATES GRIP MT20 197/144 Weight: 37 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=96(LC 11)

Max Uplift 7=-94(LC 9), 2=-74(LC 12) Max Grav 7=408(LC 1), 2=475(LC 25)

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

2-3=-529/152, 3-4=-828/254, 4-5=-700/250, 7-9=-384/120 TOP CHORD 2-13=-188/356, 11-12=-307/726, 10-11=-276/670, 9-10=-260/693 **BOT CHORD**

WEBS 4-11=-32/282, 5-9=-626/259

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-0-12, Interior(1) 2-0-12 to 3-1-10, Exterior(2R) 3-1-10 to 7-4-9, Interior(1) 7-4-9 to 9-1-8 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

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) 7, 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.

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.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

September 12,2022

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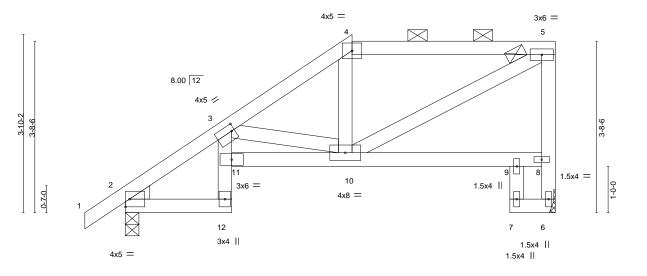
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qty Ply 154112234 HALF HIP Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:47 2022 Page 1 Valley Center, KS - 67147,

ID:LPotITLm4OEbuD1GvqyHHByhHl8-pBnWvFRk8DgQ_oH5CBcIZRIveVzHlcNhj7UEeGyfP72 -0-10-8 0-10-8 4-10-10 7-3-8 9-3-4 1-11-12

Scale = 1:24.8



	2-3-8	4-10-10	₁ 7-3-8	8-3-8	9-3-4
	2-3-8	2-7-2	2-4-14	1-0-0	0-11-12
Plate Offsets (X,Y) [3:0-0-12.0-1-12]					

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=142(LC 11)

Max Uplift 6=-95(LC 9), 2=-83(LC 12) Max Grav 6=408(LC 1), 2=475(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-535/138, 3-4=-518/154, 4-5=-418/170, 6-8=-387/150, 5-8=-363/162

BOT CHORD 2-12=-257/363, 10-11=-569/835 WFBS 3-10=-473/327, 5-10=-215/430

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-12, Interior(1) 2-1-12 to 4-10-10, Exterior(2E) 4-10-10 to 9-1-8 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
- 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) 6, 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

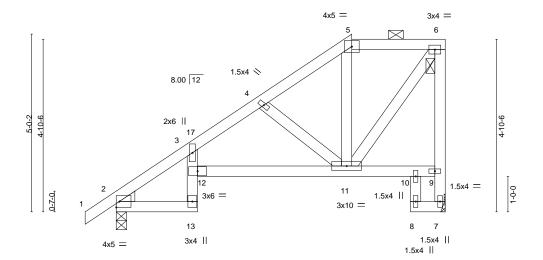
September 12,2022



SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qtv Ply 154112235 Half Hip Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:48 2022 Page 1

ID:LPotITLm4OEbuD1GvqyHHByhHl8-HOLu7aSMvXoHbxsHmv7X5er1EvKWU2nqynDnAiyfP71 0-10-8 0-10-8 6-7-10 2-5-12 7-3-8 0-7-14 4-1-15 9-3-4 1-11-12 1-10-7

Scale = 1:32.5



	2-3-8 2-3-8	6-7-10 4-4-2	7-3-8 8-3-8 9-3-4 0-7-14 1-0-0 0-11-12	
TCDL 10.0 Lumber BCLL 0.0 Rep Str	rip DOL 1.15	CSI. DEF TC 0.43 Vert(BC 0.46 Vert(WB 0.10 Horz Matrix-AS Horz	LL) 0.06 11-12 >999 240 CT) -0.10 11-12 >999 180	PLATES GRIP MT20 197/144 Weight: 44 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=188(LC 11)

Max Uplift 7=-95(LC 9), 2=-84(LC 12) Max Grav 7=408(LC 25), 2=475(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-514/127, 3-4=-531/139, 4-5=-353/116, 7-9=-393/191, 6-9=-407/200 TOP CHORD

BOT CHORD 2-13=-261/356, 11-12=-382/524 6-11=-212/390, 4-11=-349/236 **WEBS**

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-0-12, Interior(1) 2-0-12 to 6-7-10, Exterior(2E) 6-7-10 to 9-1-8 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

- 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.

Valley Center, KS - 67147,

- 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) 7, 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.
- 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.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

September 12,2022

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

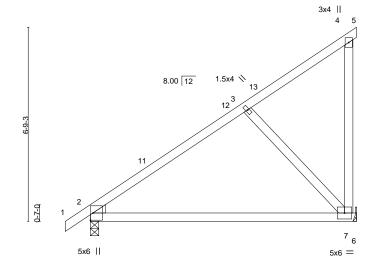
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qtv Ply 154112236 Jack-Closed Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:50 2022 Page 1 Valley Center, KS - 67147,

ID:LPotlTLm4OEbuD1GvqyHHByhHl8-DmTfYGTcR83?rF0gtKA?A3wOVj0cyx87Q5iuFbyfP7? 5-5-10 5-5-10 3-9-10

Scale = 1:40.1



9-3-4 LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/defl L/d 0.38

Plate Grip DOL **TCLL** 25.0 1.15 TC Vert(LL) -0.15 7-10 >717 240 TCDL 10.0 Lumber DOL 1.15 BC 0.48 Vert(CT) -0.31 7-10 >345 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.17 Horz(CT) 0.02 n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-AS Weight: 38 lb

BRACING-

TOP CHORD

BOT CHORD

PLATES GRIP 197/144 MT20

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

FT = 20%

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=260(LC 11)

Max Uplift 2=-63(LC 12), 7=-104(LC 12) Max Grav 2=469(LC 1), 7=449(LC 19)

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

TOP CHORD 2-3=-358/108 **BOT CHORD** 2-7=-235/292 3-7=-354/237 **WEBS**

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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 9-3-4 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) 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 except (jt=lb)
- 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.



September 12,2022

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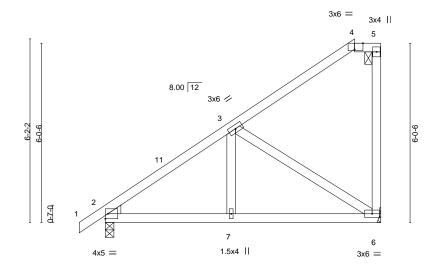
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Qty SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Ply 154112237 Half Hip Job Reference (optional) Valley Center, KS - 67147, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:51 2022 Page 1

ID:LPotITLm4OEbuD1GvqyHHByhHl8-iz11IcUECSBrSPbsR1hEjHTag6RZhNIGelSSn1yfP7_ 0-10-8 0-10-8 4-2-14

Scale = 1:38.8



4-2-14 5-0-6

DEFL

				7-4-17					
Plate Off	Plate Offsets (X,Y) [4:0-3-6,Edge]								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.					
TCLL	25.0	Plate Grip DOL	1.15	TC 0.22					
TCDL	10.0	Lumber DOL	1.15	BC 0.18					
BCLL	0.0	Rep Stress Incr	YES	WB 0.24					
BCDL	10.0	Code IRC2018/TI	Matrix-AS						

Vert(LL) -0.02 6-7 >999 240 Vert(CT) -0.03 >999 180 Horz(CT) 0.01 n/a 6 n/a

in (loc) PI ATES GRIP MT20 197/144

Weight: 41 lb FT = 20%

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

BRACING-

BOT CHORD

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

2-0-0 oc purlins (6-0-0 max.): 4-5. Rigid ceiling directly applied.

I/d

I/defl

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

Max Horz 2=235(LC 11)

Max Uplift 2=-76(LC 12), 6=-118(LC 12) Max Grav 2=475(LC 1), 6=412(LC 19)

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

TOP CHORD 2-3=-481/124

BOT CHORD 2-7=-269/394, 6-7=-269/394

WFBS 3-6=-420/221

- 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=25ft; 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 8-4-10, Exterior(2E) 8-4-10 to 9-1-8 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
- 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 except (jt=lb) 6=118.
- 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.
- 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.



September 12,2022

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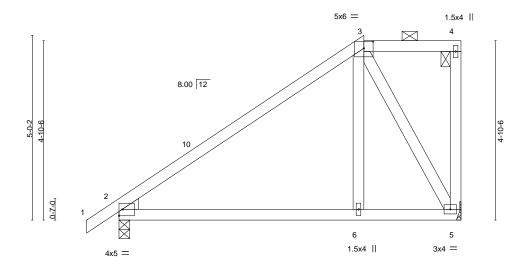
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qty Ply 154112238 Half Hip Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:52 2022 Page 1

ID:LPotITLm4OEbuD1GvqyHHByhHl8-A9aPzyVszIJi4ZA2?kCTFU0iTWkFQqmQtPB?ITyfP6z 0-10-8

Scale = 1:31.2



6-7-11

Plate Off	sets (X,Y)	[2:Edge,0-2-2], [3:0-3-0,0-2-3]							
LOADIN	G (psf)	SPACING-	2-0-0	CSI.					
TCLL	25.0	Plate Grip DOL	1.15	TC 0.41					
TCDL	10.0	Lumber DOL	1.15	BC 0.35					
BCLL	0.0	Rep Stress Incr	YES	WB 0.22					
BCDL	10.0	Code IRC2018/T	Matrix-AS						

Valley Center, KS - 67147,

DEFL. in (loc) I/defl Vert(LL) 0.06 6-9 >999 240 Vert(CT) -0.10 6-9 >999 180 Horz(CT) 0.02 2 n/a n/a

PLATES GRIP MT20 197/144

Weight: 40 lb FT = 20%

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 3-4. Rigid ceiling directly applied.

I/d

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

Max Horz 2=188(LC 11)

Max Uplift 2=-84(LC 12), 5=-95(LC 9) Max Grav 2=475(LC 1), 5=408(LC 1)

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

TOP CHORD 2-3=-377/108

BOT CHORD 2-6=-183/258, 5-6=-183/254

WFBS 3-5=-470/278

- 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=25ft; 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 6-7-11, Exterior(2E) 6-7-11 to 9-1-8 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
- 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.
- 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



September 12,2022



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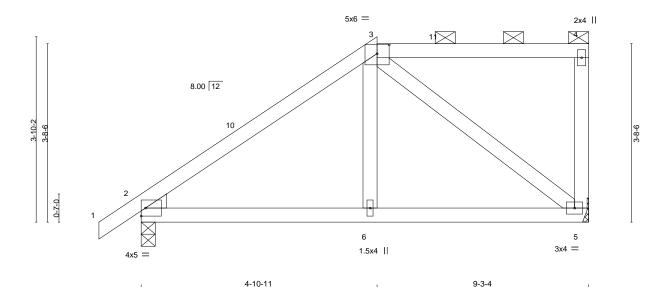


SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qty Ply 154112239 Half Hip Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:54 2022 Page 1

ID:LPotITLm4OEbuD1GvqyHHByhHl8-6Yi9NeW7VNZQJsJR69ExLv55zKSLukjjKjg6NMyfP6x -0-10-8 0-10-8 4-10-11 9-3-4

Valley Center, KS - 67147,

Scale: 1/2"=1"



	t		4-10-11		l	4-4-	9		
Plate Offsets (X,Y)	[3:0-3-0,0-2-3]								
LOADING (pof)	SDACING	200	CSI	DEEL	in (loo)	I/dofl	1 /d	DIATE	e cele

TCLL 25.0 Plate Grip DOL 1.15 TC 0.22 Vert(LL) 0.02 6-9 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.18 Vert(CT) -0.03 6-9 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.19 -0.00 n/a Horz(CT) 2 n/a **BCDL** 10.0 Code IRC2018/TPI2014 Matrix-AS Weight: 37 lb FT = 20%

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

TOP CHORD

BRACING-

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 3-4. BOT CHORD Rigid ceiling directly applied.

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

Max Horz 2=142(LC 11)

Max Uplift 2=-83(LC 12), 5=-95(LC 9) Max Grav 2=475(LC 1), 5=408(LC 25)

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

TOP CHORD 2-3=-451/125

BOT CHORD 2-6=-196/314, 5-6=-197/309

WFBS 3-5=-372/198

- 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=25ft; 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 4-10-11, Exterior(2E) 4-10-11 to 9-1-8 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
- 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.



September 12,2022





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-0-10-8

Qty SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Ply 154112240 Half Hip Girder Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:55 2022 Page 1

Valley Center, KS - 67147,

 $ID: LPot ITLm 4OE bu D1Gvqy HHByhHl8-akGYb_XIGghHx0udgt IAt7eHXkm IdCOsZNQ fvoy fP6ward for the first of th$ 6-0-11 2-11-1 9-3-4 3-2-9

Scale = 1:20.1

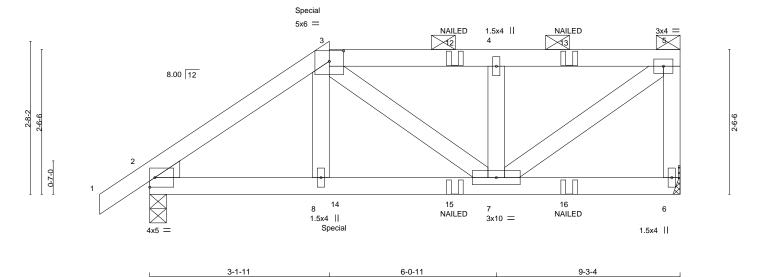


Plate Offsets (X,Y)	[3:0-3-0,0-2-3]										
LOADING (psf)	SPACING- 2-	0-0 CS	il.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL 1	.15 TC	0.16	Vert(LL)	-0.01	`7-8	>999	240	MT20	197/144	
TCDL 10.0	Lumber DOL 1	.15 BC	0.26	Vert(CT)	-0.02	7-8	>999	180			
BCLL 0.0	Rep Stress Incr	NO WE	3 0.17	Horz(CT)	0.01	6	n/a	n/a			
BCDL 10.0	Code IRC2018/TPI20	14 Ma	trix-MS	, ,					Weight: 38 lb	FT = 20%	

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

BRACING-TOP CHORD

2-11-1

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5. **BOT CHORD**

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

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

Max Horz 2=96(LC 7)

Max Uplift 6=-156(LC 5), 2=-147(LC 8) Max Grav 6=550(LC 1), 2=608(LC 1)

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

2-3=-718/179, 3-4=-573/164, 4-5=-571/163, 5-6=-511/166 TOP CHORD

BOT CHORD 2-8=-187/556, 7-8=-189/550 WFBS 4-7=-313/163. 5-7=-200/683

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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.

3-1-11

- 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=156, 2=147,
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 181 lb down and 154 lb up at 3-1-10 on top chord, and 41 lb down at 3-1-10, and 35 lb down at 3-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-5=-70, 6-9=-20



September 12,2022

Continued on page 2
WHATMING Vertile 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



Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE #177/MO	
			154	4112240
Half Hip Girder	1	1		
			lob Deference (entional)	

Valley Center, KS - 67147,

| Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:55 2022 Page 2 $ID: LPot ITLm 4OEbuD1GvqyHHByhHl8-akGYb_XIGghHx0udgtIAt7eHXkmIdCOsZNQfvoyfP6w$

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 8=-34(F) 3=-79(F) 12=-40(F) 13=-40(F) 14=-28(F) 15=-28(F) 16=-28(F)



Qty SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Ply 154112241 Half Hip Girder Job Reference (optional)

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:56 2022 Page 1 Valley Center, KS - 67147, ID:LPotITLm4OEbuD1GvqyHHByhHI8-2wqwoKYN1_p8ZATqEaGPQKAU?75GMeW?o19CREyfP6v 1-6-3 1-6-3 3-3-4 1-9-1

NAILED 5x6 = 8.00 12 0-7-0 3x10 || 4x5 = NAILED HUS26

1-9-1

Plate Offsets (X,Y) [1:0-1-8,0-1-8], [2:0-3-0,0-2-3]										
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	
TCLL 25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	5	>999	240	
TCDL 10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.01	5	>999	180	
BCLL 0.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	4	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI	2014	Matri	x-MP						

Weight: 14 lb

BRACING-TOP CHORD Structural wood sheathing directly applied or 3-3-4 oc purlins,

PI ATES

MT20

GRIP

197/144

FT = 20%

except end verticals, and 2-0-0 oc purlins: 2-3. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-

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

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

Max Horz 1=40(LC 28)

Max Uplift 1=-149(LC 8), 4=-133(LC 5) Max Grav 1=875(LC 1), 4=714(LC 1)

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

TOP CHORD 1-2=-1053/184 **BOT CHORD** 1-5=-168/889, 4-5=-148/763 WFBS 2-5=-165/973, 2-4=-928/170

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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) 1=149, 4=133,
- 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 1-4-0 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: 5=-1307(F=-2, B=-1305)



Scale = 1:10.8

September 12,2022



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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

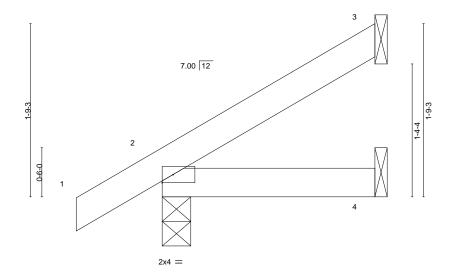
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Qty SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Ply 154112242 Jack-Open 3 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:57 2022 Page 1 Valley Center, KS - 67147,

ID:LPotITLm4OEbuD1GvqyHHByhHl8-W7OI0fZ?oIx?AK20oloeyYjfmXWH58U91hvm_hyfP6u -0-10-8 0-10-8

Scale = 1:11.7



LOADING (psf) SPACING-DEFL. 2-0-0 **PLATES** GRIP CSI L/d in (loc) I/defl Plate Grip DOL 1.15 Vert(LL) 197/144 **TCLL** 25.0 TC 0.05 -0.00>999 240 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) -0.00 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a Code IRC2018/TPI2014 BCDL 10.0 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

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

Max Horz 2=68(LC 12)

Max Uplift 3=-36(LC 12), 2=-27(LC 12)

Max Grav 3=61(LC 19), 2=169(LC 1), 4=38(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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 2-2-0 oc purlins.

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

September 12,2022



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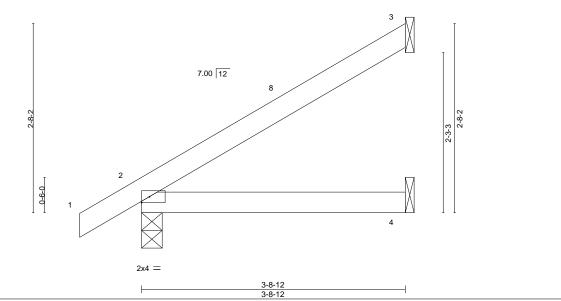
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek

Qty SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Ply 154112243 Jack-Open 3 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:58 2022 Page 1 Valley Center, KS - 67147,

ID: LPot ITLm 4OEbuD1GvqyHHByhHl8-? JygD? ZdZb3soUdCL? JtVIGoWxrAqbkIFLeJW7yfP6t3-8-12 3-8-12 -0-10-8

Scale = 1:16.3



LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.01	4-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	4-7	>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/TP	12014	Matri	x-MP						Weight: 11 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

Max Horz 2=105(LC 12)

Max Uplift 3=-65(LC 12), 2=-30(LC 12)

Max Grav 3=114(LC 19), 2=234(LC 1), 4=68(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=25ft; 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 3-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.



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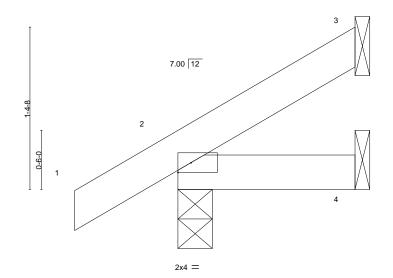
Structural wood sheathing directly applied or 3-8-12 oc purlins.

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

SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qty Ply 154112244 Jack-Open Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:37:59 2022 Page 1

ID:LPotITLm4OEbuD1GvqyHHByhHl8-TVV2RLaFJvBjQeCOvjq62zo?GLB_Z2_SU?Ot2ZyfP6s -0-10-8 0-10-8 1-6-0

Scale = 1:9.8



1-6-0

BRACING-

TOP CHORD

BOT CHORD

					1-6-0							
		1									_	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	7	>999	240		
TCDL	10.0	Lumber DOL	1.15	BC	0.02	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		

Matrix-MP

PLATES GRIP 197/144 MT20

FT = 20%

Weight: 5 lb

Structural wood sheathing directly applied or 1-6-0 oc purlins.

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

LUMBER-

REACTIONS.

L

В

BCDL

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

10.0

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

Code IRC2018/TPI2014

Max Horz 2=53(LC 12)

Max Uplift 3=-24(LC 12), 2=-27(LC 12)

Max Grav 3=39(LC 19), 2=146(LC 1), 4=25(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=25ft; 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.

Valley Center, KS - 67147,

- 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.



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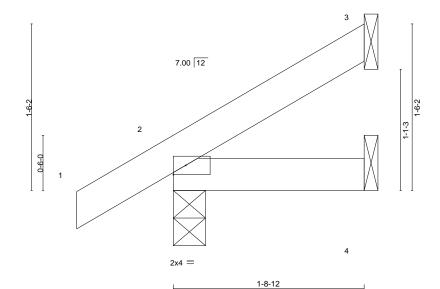




Truss Type Qty SUMMIT/HAWTHORN RIDGE #177/MO Ply 154112245 Jack-Open Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:38:00 2022 Page 1 Valley Center, KS - 67147,

ID: LPot ITLm 4OEbuD1GvqyHHByhHl8-xh3Rehbu4DJa1nnbTQLLaALA0IX8IVEbjf7Qb?yfP6rable for the control of the cont-0-10-8 1-8-12 0-10-8 1-8-12

Scale = 1:10.4



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) -0.00 7 >999 240	MT20 197/144
TCDL 10.0 BCLL 0.0 BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.02 WB 0.00 Matrix-MP	Vert(CT) -0.00 7 >999 180 Horz(CT) 0.00 3 n/a n/a	Weight: 6 lb FT = 20%

1-8-12

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

Max Horz 2=59(LC 12)

Max Uplift 3=-28(LC 12), 2=-27(LC 12)

Max Grav 3=48(LC 19), 2=154(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=25ft; 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 1-8-12 oc purlins.

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

September 12,2022





Truss Type SUMMIT/HAWTHORN RIDGE #177/MO Qty Ply 154112246 Lay-In Gable Job Reference (optional)

Valley Center, KS - 67147,

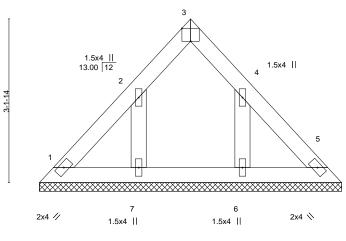
8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:38:01 2022 Page 1 ID: LPot ITLm 4OEbuD1GvqyHHByhHl8-Pudpr1cWrWRRfxMn17sa7OuLw8tP1y9kxJtz7SyfP6q

2-10-15 3-10-15 1-0-0 1-10-15 1-10-15 1-10-15 1-0-0

> Scale = 1:22.2 3x4 =

> > Structural wood sheathing directly applied or 5-9-14 oc purlins.

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



1-10-15	3-10-15	5-9-14
1-10-15	2-0-0	1-10-15

Plate Offs	sets (X,Y)	[3:Edge,0-3-0]										
LOADING	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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-P	, ,					Weight: 19 lb	FT = 20%

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

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

REACTIONS. All bearings 5-9-14. (lb) - Max Horz 1=-75(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) except 6=-104(LC 13), 7=-105(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6, 7

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=25ft; 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 104 lb uplift at joint 6 and 105 lb uplift at joint 7.
- 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.



September 12,2022



SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qtv Ply 154112247 GABLE Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:38:03 2022 Page 1

ID: LPot ITLm 4OEbuD1GvqyHHByhHI8-LGIZGjdm N8h8uFVA8Yu2CpzgRyZGVqV1PdM4BKyfP6ouples and the state of the control of the cont18-3-9 9-1-13

> Scale = 1:58.2 4x5 =

5 12.62 12 3x4 // 3x4 \\ 17 16 15 14 13 12 11 10 3x6 =

LOADING (psf) SPACING-**PLATES** GRIP 2-0-0 CSI. DEFL. L/d in (loc) I/defl Plate Grip DOL 197/144 **TCLL** 25.0 1.15 TC 0.11 Vert(LL) n/a n/a 999 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.06 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.16 Horz(CT) 0.01 9 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-S Weight: 94 lb FT = 20%

18-3-9 18-3-9

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD WEBS**

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

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt

REACTIONS. All bearings 18-3-9

(lb) - Max Horz 1=246(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 14=-135(LC 12), 16=-114(LC 12), 17=-190(LC 12),

12=-133(LC 13), 11=-115(LC 13), 10=-189(LC 13)

Valley Center, KS - 67147,

All reactions 250 lb or less at joint(s) 1, 9, 13, 14, 16, 12, 11 except 17=295(LC 19), 10=295(LC 20)

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

TOP CHORD 1-2=-300/205, 8-9=-262/181

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-1 to 3-1-13, Interior(1) 3-1-13 to 9-1-13, Exterior(2R) 9-1-13 to 12-1-13 Interior(1) 12-1-13 to 17-11-8 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) All plates are 1.5x4 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, 9 except (jt=lb) 14=135, 16=114, 17=190, 12=133, 11=115, 10=189.
- 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/TPL1



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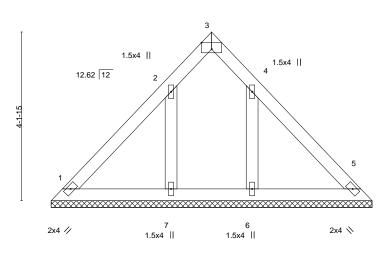




Truss Type SUMMIT/HAWTHORN RIDGE #177/MO Qty Ply 154112248 GABLE Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:38:04 2022 Page 1 Valley Center, KS - 67147,

ID:LPotITLm4OEbuD1GvqyHHByhHl8-pTJxU3eO8Rp?WP4MiGQHl0Vr5MvmEJgBeH5eknyfP6n 7-11-0 3-11-8

> Scale = 1:28.4 3x6 =



7-11-0 7-11-0

Plate Offsets (X,Y)-	[3:Edge,0-1-15]			
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.11	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999	PLATES GRIP MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) n/a - n/a 999	137/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.04 Matrix-P	Horz(CT) 0.00 5 n/a n/a	Weight: 27 lb FT = 20%

LUMBER-**BRACING-**

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

REACTIONS. All bearings 7-11-0.

(lb) - Max Horz 1=-101(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) except 7=-169(LC 12), 6=-168(LC 13) All reactions 250 lb or less at joint(s) 1, 5 except 7=266(LC 19), 6=265(LC 20)

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

2-7=-250/190, 4-6=-250/189 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mpn, TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-1 to 3-4-1, Interior(1) 3-4-1 to 3-11-8, Exterior(2R) 3-11-8 to 6-11-8, Interior(1) 6-11-8 to 7-6-15 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) 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 169 lb uplift at joint 7 and 168 lb uplift at joint 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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SUMMIT/HAWTHORN RIDGE #177/MO Truss Type Qty Ply 154112249 GABLE Job Reference (optional)

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 9 09:38:05 2022 Page 1 ID:LPotITLm4OEbuD1GvqyHHByhHl8-HftJhOf0vlxs8ZfYGzxWHE21emFFzmiKsxrBGDyfP6m 11-10-11 9-10-5 6 Scale = 1:23.6 4x5 // 3x4 // 25.30 12 25.30 12 14 13 12 11 10 3x4 // 4x5 // 9-10-5 11-10-11

	·				9-10-5					•	2-0-6	•
Plate Offs	sets (X,Y)	[3:0-1-13,Edge], [8:0-0-13,0)-1-8]									
LOADING	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	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	014	Matri	x-S	, ,					Weight: 52 lb	FT = 20%

LUMBER-**BRACING-**

Valley Center, KS - 67147,

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

TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-8.

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

REACTIONS. All bearings 11-10-11.

(lb) - Max Horz 1=163(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 9, 13, 12, 11, 10 except 14=-217(LC 12)

All reactions 250 lb or less at joint(s) 1, 8, 9, 14, 13, 12, 11, 10

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=25ft; 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 1.5x4 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, 8, 9, 13, 12, 11,
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPL1
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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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

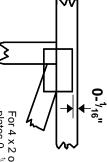


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

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

* Plate location details available in MiTek 20/20 software or upon request.

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.

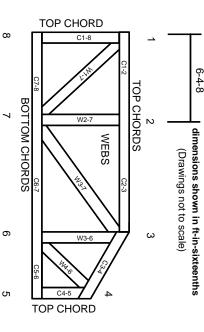
Min size shown is for crushing only

EVELOPMENT AND STATE OF THE COLUMN STATE OF TH

RELEASE FOR CONSTRUCTION

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.

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.

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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.

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- 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.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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- 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.
- 20. 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.