

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

Re: 2592374

summit/hawthorn#25/mo

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/21/2021

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: I44192331 thru I44192416

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

Missouri COA: Engineering 001193



January 4,2021

Sevier, Scott

,Engineer

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

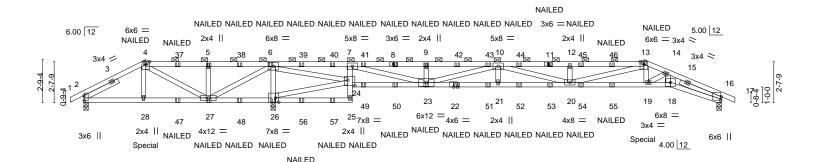
Job Truss Truss Type Qty Ply summit/hawthorn#25/mo 144192331 2592374 Α1 HIP GIRDER Job Reference (optional)

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:08 2020 Page 1 ID:kEw3wTxqZGZo92CBQypo51z2MZK-4oaWI5y657pmPUMLMSDb2C85o6eHQt7vQ_Nsnzy3QMv

-0-10₋₈ 22-1-6 26-9-0 31-4-10 36-2-0 37-10-8 41-2-0 42-0-8 4-0-0 4-0-8 4-10-3 4-5-5 4-9-6 4-7-10 4-7-10 4-9-6 1-8-8 3-3-8 0-10-8

Scale = 1:74.4



4-0	9-0 8-0-8 1-0 4-0-8	12-1-0 12 ₁ 10 4-0-8 0-9		22-1-6 4-9-6	26-9-0 4-7-10	31-4-10 4-7-10	36-2-0 37-10-8 4-9-6 1-8-8	41-2-0 3-3-8
Plate Offsets (X,Y)	[2:0-4-1,0-0-5], [16:0-2-1	11,0-0-10], [24:0	-5-8,0-4-4], [26:0-2	-8,0-3-4]				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 NO PI2014	CSI. TC 0.60 BC 0.82 WB 0.68 Matrix-MS	Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.36 20-21 -0.68 20-21 0.12 16	l/defl L/d >955 240 >507 180 n/a n/a	PLATES MT20 Weight: 324	GRIP 197/144 lb FT = 20%

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 4-11-9 oc purlins,

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2 2-0-0 oc purlins (4-5-4 max.): 4-13. SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-10-11 **BOT CHORD**

Rigid ceiling directly applied or 5-1-14 oc bracing.

Max Horz 2=-37(LC 9)

(size) 2=0-3-8, 16=0-3-8, 26=0-3-8

Max Uplift 2=-513(LC 22), 16=-319(LC 9), 26=-874(LC 5) Max Grav 2=160(LC 4), 16=1470(LC 1), 26=4335(LC 1)

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

 $2\text{-}4\text{=-}265/1098,\ 4\text{-}5\text{=-}605/2933,\ 5\text{-}6\text{=-}606/2931,\ 6\text{-}7\text{=-}500/2571,\ 7\text{-}9\text{=-}2839/608,}$ TOP CHORD

9-10=-2839/608, 10-12=-6150/1346, 12-13=-6154/1347, 13-14=-4579/1031,

14-16=-5386/1198

BOT CHORD 2-28=-942/285, 27-28=-961/284, 26-27=-5656/1185, 7-24=-2024/515, 23-24=-2500/592,

21-23=-1135/5621, 20-21=-1135/5621, 19-20=-903/4318, 18-19=-969/4605,

16-18=-1053/4991

WEBS 4-28=0/356, 4-27=-2349/466, 5-27=-314/158, 6-27=-618/3191, 6-26=-2820/667,

24-26=-5777/1195, 6-24=-707/3356, 7-23=-1148/5526, 9-23=-508/181, 10-23=-2898/640,

10-20=-136/551, 12-20=-624/211, 13-20=-397/1993, 13-19=-82/497, 14-19=-271/78,

14-18=-251/1201

NOTES-

REACTIONS.

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

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

Bottom chords connected as follows: 2x4 - 1 row at 0-7-0 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Bearing at joint(s) 16, 26 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 513 lb uplift at joint 2, 319 lb uplift at Continue of campa 2742 b uplift at joint 26



January 4,2021

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





ĺ	Job	Truss	Truss Type	Qty	Ply	summit/hawthorn#25/mo	
	2592374	A1	HIP GIRDER	1	2		144192331
ı						Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:09 2020 Page 2 ID:kEw3wTxqZGZo92CBQypo51z2MZK-Y?8uVRzksQxd0exXwAkqaPhGYWzW9KN2fe7PJPy3QMu

- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 143 lb down and 39 lb up at 4-0-0, and 106 lb down and 76 lb up at 36-1-4 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, 4-13=-70, 13-17=-70, 25-29=-20, 18-24=-20, 18-33=-20

Concentrated Loads (lb)

Vert: 4-47(F) 8-94(F) 28-143(F) 27-24(F) 5-47(F) 6-47(F) 9-94(F) 13-94(F) 19-106(F) 11-94(F) 26-24(F) 37-47(F) 38-47(F) 39-47(F) 40-47(F) 41=-94(F) 42=-94(F) 43=-94(F) 44=-94(F) 45=-94(F) 46=-94(F) 47=-24(F) 48=-24(F) 56=-24(F) 57=-24(F)

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty summit/hawthorn#25/mo 144192332 2592374 A2 Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:16 2020 Page 1

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

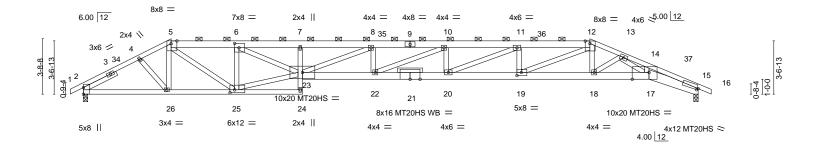
Structural wood sheathing directly applied, except

2-0-0 oc purlins (2-0-10 max.): 5-12.

Rigid ceiling directly applied.

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-rL3Yzq27DapeMjztq8MTNuTO4LLSIQa4GEJH3Vy3QMn 33-11-0 36-0-2 37-10-8 2-1-2 1-10-6 41-2-0 42-0-8 24-3-8 29-2-2 3-9-6 2-1-2 4-4-12 4-4-12 4-8-14 4-10-10 4-10-10 4-8-14 3-3-8

Scale = 1:77.1



		5-10-8 10-3-4	14-8-) 19-4-14	24-3-8	29-2-2	33-11-0	37-10-8 ₁ 4	1-2-0
	1	5-10-8 4-4-12	4-4-1	2 4-8-14	4-10-10	4-10-10	4-8-14	3-11-8 3	-3-8
Plate Offset	s (X,Y)	[5:0-4-10,Edge], [6:0-3-8	0-3-8], [12:0-3	-12,0-2-0], [14:0-1-12,0-0)-12], [15:0-1-1,0-	1-4], [17:1-1-8,Ed	ge], [19:0-3-8,0-2-8], [25:0-3-12,0-2-4]	
LOADING ((psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC 0.90	Vert(LL)	-0.92 20-22	>538 240	MT20	197/144
TCDL ²	10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-1.65 20-22	>299 180	MT20HS	148/108
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.43 15	n/a n/a		
BCDL [*]	10.0	Code IRC2018/TF	PI2014	Matrix-AS				Weight: 22	0 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SPF No.2 *Except* TOP CHORD

1-5: 2x4 SPF No.2, 12-16: 2x4 SPF 1650F 1.5E

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

2-24: 2x4 SPF No.2, 15-17: 2x8 SP 2400F 2.0E

WEBS 2x4 SPF No.2 *Except*

23-25: 2x4 SPF 1650F 1.5E

OTHERS 2x4 SPF No.2 **SLIDER**

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

REACTIONS. (size) 2=0-3-8, 15=0-3-8 Max Horz 2=-51(LC 13)

Max Uplift 2=-190(LC 12), 15=-210(LC 9)

Max Grav 2=1912(LC 1), 15=1913(LC 1)

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

TOP CHORD 2-4=-3032/354, 4-5=-3067/373, 5-6=-4450/587, 6-7=-8088/1052, 7-8=-8195/1061,

8-10=-8895/1147, 10-11=-8650/1112, 11-12=-7350/932, 12-13=-5467/637,

13-14=-6723/711, 14-15=-7027/718 2-26=-253/2584, 25-26=-265/2814, 22-23=-1060/8895, 20-22=-1025/8650,

BOT CHORD 19-20=-841/7343, 18-19=-510/5024, 17-18=-556/5519, 15-17=-617/6498

 $5-26 = -279/113, \ 5-25 = -300/2094, \ 6-25 = -2189/354, \ 23-25 = -498/4410, \ 6-23 = -504/3943,$

8-23=-817/183, 10-22=-188/347, 10-20=-467/132, 11-20=-200/1496, 11-19=-1132/231,

12-19=-367/2634, 12-18=-40/818, 14-17=-25/477, 13-18=-539/101, 13-17=-97/958,

4-26=-64/433

NOTES-

WEBS

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-10-8, Exterior(2R) 5-10-8 to 10-3-4, Interior(1) 10-3-4 to 33-11-0, Exterior(2R) 33-11-0 to 38-1-15, Interior(1) 38-1-15 to 42-0-8 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 DOI =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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 190 lb uplift at joint 2 and 210 lb uplift at

Continue on page 2



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



Job	Truss	Truss Type	Qty	Ply	summit/hawthorn#25/mo	
2592374	A2	Hip	1	1	I44192	2332
2592574	/AZ	Пр	'	'	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:16 2020 Page 2

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-rL3Yzq27DapeMjztq8MTNuTO4LLSIQa4GEJH3Vy3QMn

- 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.

Job Truss Truss Type Qty summit/hawthorn#25/mo 144192333 2592374 **A3** Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:17 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-JXdwBA3I_uxV_tY4Ortiv50c4kgM1tWEUu3qcyy3QMm

5-5-10

16-8-6

2-8-13

23-2-8

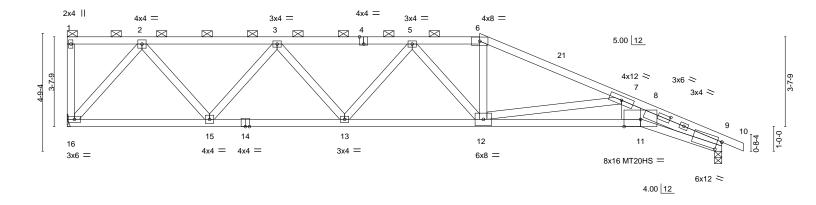
6-6-2

Scale = 1:46.6

0-10-8

26-6-0

3-3-8



		5-9-2 5-9-2		<u>2-12</u> 5-10	16-8-6 5-5-10			6-6-2	3-3-6	-
Plate Offs	sets (X,Y)	[4:0-2-0,Edge], [9:0-2-2,	0-4-5], [9:2-3-7	,0-1-8]						
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.	76 Vert(LL)	-0.26 11-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.9	95 Vert(CT)	-0.50 11-12	>638	180	MT20HS	148/108
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.9	99 Horz(CT)	0.18 9	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-AS	S				Weight: 111 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 TOP CHORD

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

14-16: 2x4 SPF No.2

WEBS 2x4 SPF No.2 *Except* 7-11: 2x10 SP 2400F 2.0E

Right 2x4 SPF No.2 3-4-11 SLIDER

REACTIONS. (size) 16=Mechanical, 9=0-3-8

Max Horz 16=-152(LC 8)

Max Uplift 16=-152(LC 8), 9=-108(LC 9) Max Grav 16=1185(LC 1), 9=1248(LC 1)

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

5-5-10

TOP CHORD $2\text{-}3\text{--}1552/201,\ 3\text{-}5\text{--}2247/272,\ 5\text{-}6\text{--}2224/249,\ 6\text{-}7\text{--}2458/243,\ 7\text{-}9\text{--}4894/390}$ 15-16=-46/935, 13-15=-178/2070, 12-13=-182/2351, 11-12=-316/3885, 9-11=-322/4571 **BOT CHORD**

WEBS

6-12=-16/577, 7-12=-1674/258, 7-11=-6/1354, 2-16=-1409/216, 2-15=-59/974,

3-15=-818/155, 3-13=0/283, 5-12=-368/89

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-0-5, Interior(1) 3-0-5 to 16-8-6, Exterior(2R) 16-8-6 to 19-8-6, Interior(1) 19-8-6 to 27-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 16 and 108 lb uplift at joint 9.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (3-6-15 max.): 1-6.

Rigid ceiling directly applied.

January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192334 2592374 A4 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:18 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-nkBIOW4OIB3Lb07GyZOxSJZIT81ImRINjYoO8Oy3QMI

18-9-1

4-5-7

23-2-8

4-5-7

23-2-8

2-0-0 oc purlins (3-6-10 max.): 1-3.

Rigid ceiling directly applied.

1 Row at midpt

14-3-10

7-0-1

14-3-10

Scale = 1:46.6

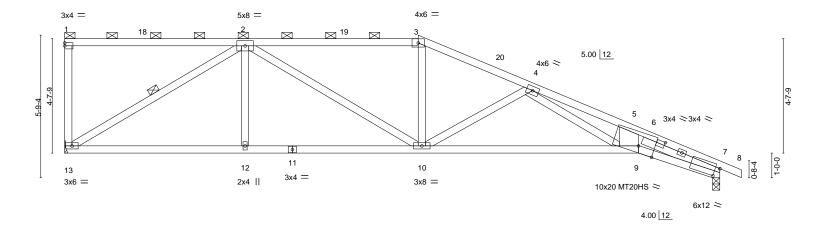
0-10-8

26-6-0

3-3-8

26-6-0

Structural wood sheathing directly applied, except end verticals, and



		7-3-9	7-0-1	ı	8-10-14	3-3-8
Plate Off	fsets (X,Y)	[5:0-5-0,0-0-6], [7:0-2-2,0-4-5], [7:2-5-3,0-1-8], [9:0-7-12,0-3-4]			
LOADIN	C (nof)	SPACING- 2-0-0	CSI.	DEFL. in	(loo) 1/doft 1/d	PLATES GRIP
LOADIN	· · ·				(/	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.85	Vert(LL) -0.27	9-10 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.88	Vert(CT) -0.62	9-10 >512 180	MT20HS 148/108
BCLL	0.0 *	Rep Stress Incr YES	WB 0.57	Horz(CT) 0.17	7 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 113 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 TOP CHORD

BOT CHORD 2x4 SPF No.2 *Except*

7-9: 2x4 SPF 1650F 1.5E 2x4 SPF No.2 *Except* **WEBS**

5-9: 2x10 SP 2400F 2.0E Right 2x4 SPF No.2 3-4-11 SLIDER

REACTIONS. (size) 13=Mechanical, 7=0-3-8

Max Horz 13=-191(LC 8)

7-3-9

7-3-9 7-3-9

Max Uplift 13=-145(LC 8), 7=-117(LC 13) Max Grav 13=1185(LC 1), 7=1248(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1835/229, 3-4=-2052/225, 4-5=-4460/390, 5-7=-4808/312

BOT CHORD 12-13=-70/1518, 10-12=-70/1518, 9-10=-168/2512, 7-9=-227/4492 WEBS 2-13=-1718/206, 2-12=0/280, 2-10=-72/368, 3-10=0/421, 4-10=-772/198, 4-9=-154/1863,

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 14-3-10, Exterior(2R) 14-3-10 to 17-3-10. Interior(1) 17-3-10 to 27-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 13 and 117 lb uplift at joint 7.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 4,2021





BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

BCDL

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

10.0

WEDGE Right: 2x4 SPF No.2

REACTIONS.

(size) 15=Mechanical, 10=0-5-8 Max Horz 15=-242(LC 10)

Max Uplift 15=-93(LC 8), 10=-94(LC 13) Max Grav 15=871(LC 26), 10=871(LC 1)

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

TOP CHORD 1-15=-800/179, 1-2=-539/179, 2-3=-539/179, 3-4=-530/176, 4-5=-537/165,

5-6=-585/160, 6-7=-601/134, 7-9=-676/132, 9-10=-1481/215

BOT CHORD 14-15=-145/276, 12-14=-145/276, 11-12=-124/1291, 10-11=-124/1291 WFBS 1-16=-210/880, 16-17=-201/860, 12-17=-213/866, 12-18=-852/211, 18-19=-853/208,

19-20=-813/191, 9-20=-824/198, 9-11=0/293

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed: MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-9-14, Exterior(2R) 4-9-14 to 8-0-0, Interior(1) 8-0-0 to 19-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-AS

- 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 15 and 94 lb uplift at
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) 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.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Weight: 105 lb

Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

1 Brace at Jt(s): 1, 16, 19, 20

FT = 20%

January 4,2021





Job Truss Truss Type Qty summit/hawthorn#25/mo 144192336 2592374 A6 **ROOF SPECIAL** Job Reference (optional)

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:21 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-CJsR1X6G16SwTUrrdhye4xBOgM7Wzl?pPW12ljy3QMi

Structural wood sheathing directly applied, except

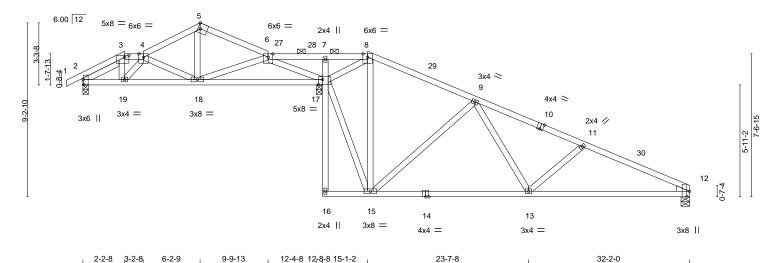
2-0-0 oc purlins (6-0-0 max.): 3-4, 6-8.

Rigid ceiling directly applied.

20-9-6 26-5-10 32-2-0 -0-10-8 2-2-8 0-10-8 2-2-8 3-2-8 1-0-0 3-0-1 3-7-4 2-10-11 2-4-10 5-8-4 5-8-4 5-8-6

Scale = 1:61.1





	' 2	2-2-8 1-0-0' 3-0-1	3-7-4	2-6-11 0-4	-0 2-4-10 '		8-6-6		'	8-6-8	'
Plate Offset	ts (X,Y)	[2:0-3-4,0-0-5], [3:0-2-12	,0-1-4], [5:Edg	e,0-3-8], [10:0-2	-0,Edge], [12	2:0-3-8,Edge], [12:0-0-1,0-5-11], [12:0-0	-0,0-0-1], [1	7:0-2-12,0-3-4]	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.	34	Vert(LL)	-0.09 13-15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.	55	Vert(CT)	-0.19 13-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.	76	Horz(CT)	0.01 12	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matrix-A	s					Weight: 143 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

WEDGE

Right: 2x4 SPF No.2

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

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 12=0-5-8

Max Horz 2=-255(LC 13)

Max Uplift 2=-71(LC 12), 17=-142(LC 13), 12=-153(LC 13) Max Grav 2=550(LC 1), 17=1599(LC 1), 12=815(LC 26)

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

TOP CHORD 2-3=-680/104, 3-4=-590/105, 4-5=-580/105, 5-6=-557/106, 6-7=0/760, 7-8=0/816,

9-11=-1106/287, 11-12=-1404/330

BOT CHORD 2-19=0/585, 18-19=0/753, 17-18=0/297, 13-15=-126/716, 12-13=-244/1239 4-19=-266/62, 4-18=-316/109, 5-18=-4/262, 15-17=0/389, 8-17=-1108/230, WFBS 8-15=-102/350, 9-15=-772/196, 9-13=0/496, 11-13=-383/158, 6-17=-1164/163

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-2-8, Interior(1) 3-2-8 to 6-2-9, Exterior(2R) 6-2-9 to 9-2-9, Interior(1) 9-2-9 to 15-1-2, Exterior(2R) 15-1-2 to 18-1-2, Interior(1) 18-1-2 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 2, 142 lb uplift at joint 17 and 153 lb uplift at joint 12.
- 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.



January 4,2021



Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.01

13

n/a

Rigid ceiling directly applied.

n/a

2-0-0 oc purlins (6-0-0 max.): 4-5, 7-8.

Structural wood sheathing directly applied, except

Weight: 142 lb

FT = 20%

LUMBER-

BCLL

BCDL

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

0.0

10.0

WEBS WEDGE

Right: 2x4 SPF No.2

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

REACTIONS.

(size) 2=0-3-8, 17=0-3-8, 13=0-5-8

Rep Stress Incr

Code IRC2018/TPI2014

Max Horz 2=-255(LC 13)

Max Uplift 2=-69(LC 12), 17=-161(LC 13), 13=-145(LC 13) Max Grav 2=533(LC 2), 17=1724(LC 2), 13=826(LC 28)

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

TOP CHORD 2-4=-567/112, 4-5=-510/129, 5-6=-522/100, 6-7=-517/110, 7-8=0/519, 8-9=0/497,

YES

WB

Matrix-AS

0.99

9-10=-30/651, 10-12=-1048/259, 12-13=-1331/311

BOT CHORD 2-19=0/601, 18-19=0/609, 17-18=0/511, 9-17=-649/154, 13-14=-221/1194 6-18=-87/414, 14-17=-155/908, 10-17=-1318/385, 10-14=0/296, 12-14=-469/192, WFBS

7-17=-1025/111

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-2-8, Exterior(2E) 4-2-8 to 5-2-8, Interior(1) 5-2-8 to 6-2-9, Exterior(2E) 6-2-9 to 7-5-0, Interior(1) 7-5-0 to 12-8-5, Exterior(2R) 12-8-5 to 15-8-5, Interior(1) 15-8-5 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 2, 161 lb uplift at joint 17 and 145 lb uplift at joint 13.
- 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.



January 4,2021





Job Truss Truss Type Qty summit/hawthorn#25/mo 144192338 2592374 **A8** Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:24 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-ctYZfZ98K1qVKxaQIpVLhapo4ZAtA7RG5UFiL2y3QMf 22-11-2 10-3-8 16-8-0 29-2-5 32-2-0 -0-10-8 0-10-8 6-2-8 4-1-0 6-4-8 6-3-2 6-3-2 2-11-11 Scale = 1:61.6 6x6 = 6x8 = 6.00 12 5.00 12 29 3x6 < 3-7-13 × 4x4 > 9-8-10 18 16 9-6-15 17 15 3x4 > 3x4 = 3x4 =2x4 || 3x6 || 4x6 = 8 3x4 ≥ 10 13 12 11 30 2x4 || 4x8 = 2x4 || 3x8 II 10-3-8 22-11-2 29-2-5 32-2-0 4-1-0 6-3-2 Plate Offsets (X,Y)--[2:0-4-1,0-0-1], [10:0-0-0,0-0-1], [10:0-0-1,0-5-11], [10:0-3-8,Edge], [14:0-5-8,0-3-0] SPACING-**PLATES** LOADING (psf) CSI in (loc) I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.71 Vert(LL) -0.09 12-13 >999 240 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.51 Vert(CT) -0.16 11-12 >999 180

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.03

10

n/a

n/a

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

Rigid ceiling directly applied.

Structural wood sheathing directly applied, except

BCDL 10.0 LUMBER-

BCLL

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

0.0

WEDGE

Right: 2x4 SPF No.2

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

REACTIONS.

(size) 2=0-3-8, 10=0-5-8, 15=0-3-8

Rep Stress Incr

Code IRC2018/TPI2014

Max Horz 2=-261(LC 13)

Max Uplift 2=-85(LC 12), 10=-136(LC 13), 15=-144(LC 13) Max Grav 2=484(LC 25), 10=712(LC 2), 15=2039(LC 2)

YES

WB

Matrix-AS

0.65

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

TOP CHORD 2-4=-363/195, 4-5=-17/650, 5-6=-157/1812, 6-7=-343/150, 7-9=-838/247,

9-10=-1302/268

BOT CHORD 2-18=-144/344, 16-18=-150/342, 15-16=-671/347, 14-15=0/268, 6-14=-2/711,

11-12=-223/1174, 10-11=-223/1174

WEBS 4-18=0/250, 4-16=-827/58, 5-16=0/555, 5-15=-1788/133, 6-15=-1893/364,

12-14=-169/979, 7-14=-500/187, 7-12=-407/177, 9-12=-471/101

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-2-8, Exterior(2R) 6-2-8 to 9-2-8, Interior(1) 9-2-8 to 10-3-8, Exterior(2R) 10-3-8 to 13-3-8, Interior(1) 13-3-8 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint 2, 136 lb uplift at joint 10 and 144 lb uplift at joint 15.
- 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.



FT = 20%

Weight: 140 lb

January 4,2021

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



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192339 2592374 A9 Roof Special 2 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:25 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-446xsv9n5LyMx59csX0aEnL?hzVdvbtPK8?FuUy3QMe 32-2-0 23-0-10 3-10-10 4-3-14 4-3-14 6-4-2 6-4-2 2-9-5 Scale: 3/16"=1 4x4 > 6.00 12 5.00 12 4x6 > 28 4-8-10 5x8 < 3x4 > ₩ 16 4x4 < 17 11 18 9 5x8 = 3x4 = 4x6 29 3x8 || 5-11-2 3x4 > 10 14 14 13 12 3x8 II 2x4 || 2x4 || 4x8 = 16-8-8 29-4-11 32-2-0 12-6-4 23-0-10 8-0-12 4-5-8 4-2-4 6-4-2 Plate Offsets (X,Y)--[2:0-4-5,Edge], [11:0-3-8,Edge], [11:0-0-0,0-5-10], [11:0-0-0,0-0-1], [15:0-5-8,0-3-0] L/d **PLATES GRIP** LOADING (psf) SPACING-CSI in (loc) I/def TCLL 25.0 Plate Grip DOL 1.15 TC 0.59 Vert(LL) -0.09 12-13 >999 240 197/144 MT20

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.17 12-13

11

0.02

>999

n/a

Rigid ceiling directly applied.

180

n/a

Structural wood sheathing directly applied.

LUMBER-

TCDL

BCLL

BCDL

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

10.0

10.0

0.0

WEDGE

Right: 2x4 SPF No.2

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

REACTIONS.

(size) 2=0-3-8, 16=0-3-8, 11=0-5-8

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

Max Horz 2=-274(LC 13)

Max Uplift 2=-92(LC 12), 16=-162(LC 13), 11=-133(LC 13) Max Grav 2=443(LC 25), 16=2046(LC 2), 11=711(LC 28)

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

TOP CHORD 2-4=-618/259, 4-5=-124/388, 5-6=-63/425, 6-7=-109/1676, 7-9=-406/179,

9-10=-843/246, 10-11=-1206/245

2-18=-191/348, 16-18=-1493/355, 7-15=-9/732, 12-13=-206/1076, 11-12=-206/1076 **BOT CHORD** 4-18=-373/126, 5-18=-461/69, 6-18=-17/1488, 6-16=-1619/160, 7-16=-1601/220, WFBS

1.15

YES

BC

WB

Matrix-AS

0.54

0.58

13-15=-174/981, 9-15=-450/160, 9-13=-430/187, 10-13=-363/78

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed: MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-0-12, Exterior(2R) 8-0-12 to 11-0-12, Interior(1) 11-0-12 to 31-11-4 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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 2, 162 lb uplift at joint 16 and 133 lb uplift at joint 11.
- 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.



FT = 20%

Weight: 141 lb

January 4,2021



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



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192340 2592374 A10 **ROOF SPECIAL** 2 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:10 2020 Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-0BiHjn_Mdk3UeoWjUtF37dETqwMUus0Ctlszssy3QMt

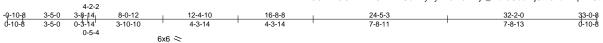
32-2-0

9-14

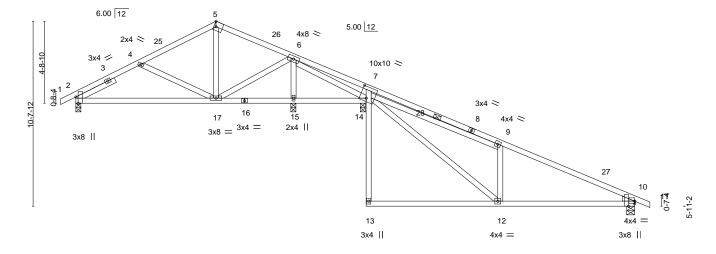
Structural wood sheathing directly applied.

Rigid ceiling directly applied.

1 Row at midpt



Scale = 1:66.3



		8-0-12	4-5-8 4-1-	·12 0-Ö-8 7-8-11	7-8-13	
Plate Offs	sets (X,Y)	[2:0-4-5,Edge], [5:Edge,0-3-8], [7:0)-4-8,0-7-12], [7:0-1-14,0-0-0],	, [10:0-3-7,Edge], [10:0-0-0,0-1-12]		
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/de	efl L/d PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.51	Vert(LL) -0.11 12-13 >99	9 240 MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.58	Vert(CT) -0.19 12-13 >94	8 180	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.33	Horz(CT) -0.01 10 n	/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 137	7 lb FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

16-8-8

16-8-0

24-5-3

LUMBER-

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

WEDGE Right: 2x4 SPF No.2

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

REACTIONS. All bearings 0-3-8 except (jt=length) 10=0-5-8.

Max Horz 2=-289(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 2 except 10=-155(LC 13), 14=-155(LC

13)

Max Grav All reactions 250 lb or less at joint(s) except 2=615(LC 2), 10=758(LC 28),

15=820(LC 2), 14=950(LC 28)

8-0-12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-676/148, 4-5=-495/120, 5-6=-473/126, 7-9=-373/162, 9-10=-1054/263

BOT CHORD 2-17=-5/716, 7-14=-340/134, 10-12=-156/912

WEBS 4-17=-327/134, 6-17=0/505, 6-15=-720/46, 12-14=-200/1124, 9-14=-719/214,

9-12=-481/214

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-0-12, Exterior(2R) 8-0-12 to 11-0-12, Interior(1) 11-0-12 to 33-0-8 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

12-6-4

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 10=155, 14=155,
- 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.



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

except end verticals, and 2-0-0 oc purlins (5-8-4 max.): 1-2.

PLY-TO-PLY CONNECTION REQUIRES THAT AN APPROVED FACE MOUNT HANGER (SPECIFIED BY OTHERS) IS REQUIRED FOR

LOADS REPORTED IN NOTES. FACE MOUNT HANGER SHALL BE ATTACHED WITH A MINIMUM OF 0.148"x 3" NAILS PER HANGER

MANUFACTURER SPECIFICATIONS.

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

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-RmNPLo0FwfR3VFEI9?pmlFr127JN5A2eZG5dTBy3QMq 12-6-4 12₁11-4 3-4-4 0-5-0 16-8-8 21-10-5 27-0-2 32-2-0 33-0-8 0-10-8 3-0-8 5-0-4 3-9-4 5-1-13 5-1-13 5-1-14

Scale = 1:70.6 5x5 < 6.00 12 2x4 || 3 5.00 12 6x8 > 6x6 = 4x8 3-8-10 3x4 || 1-0-13 6 4x4 > 20 3x4 > 26 27 28 4x8 = 8x12 18 15 R LUS24 16 Special 6x6 = 2x4 | |5x8 3x4 > 3x8 = LUS24 Special 9 14 13 12 2x4 || 3x8 = 2x4 || 4x4 = 3x8 II

	1	3-0-8	8-0-12	9-2-0 ₁	12-6-4	16-8-0	16- β -8	21-10-5	27-0-2	32-2-0	1
	Г	3-0-8	5-0-4	1-1-4	3-4-4	4-1-12	0-0-8	5-1-13	5-1-13	5-1-14	7
(X,Y)	[3:0	-2-11,0-2-8]	, [10:0-3-7,Edge],	[15:0-2-1	2,0-3-4], [1	7:0-3-8,0-1-8]	, [19:0-4	-0,Edge], [21:0-	3-8,0-2-0]		

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 0.32	Vert(LL) -0.13 20-21 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.95	Vert(CT) -0.24 20-21 >624 180	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.57	Horz(CT) 0.03 17 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 308 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Plate Offsets (

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

19-22: 2x4 SPF 1650F 1.5E, 4-18: 2x6 SPF No.2

2x4 SPF No.2 WEBS

WEDGE

Right: 2x4 SPF No.2

REACTIONS. All bearings 0-3-8 except (jt=length) 17=0-4-0 (input: 0-3-8 + bearing block),

10=0-5-8.

Max Horz 22=-311(LC 9) (lb) -

All uplift 100 lb or less at joint(s) except 22=-231(LC 8), 10=-170(LC 30), Max Uplift

17=-638(LC 8), 15=-1134(LC 21)

Max Grav All reactions 250 lb or less at joint(s) except 22=1771(LC 1), 10=701(LC

22), 17=5114(LC 1), 15=554(LC 17)

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

TOP CHORD 1-22=-1503/209, 1-2=-4786/623, 2-3=-1561/309, 3-4=-858/309, 4-5=-916/296,

5-6=-104/1230, 6-7=-83/920, 7-9=-537/281, 9-10=-1040/305

BOT CHORD 21-22=-26/408, 20-21=-525/4819, 19-20=-92/1260, 15-17=-2916/456, 12-13=-216/907,

10-12=-216/907

1-21=-604/4639, 2-20=-3525/473, 3-20=-178/1978, 3-19=-1434/88, 17-19=-2988/458, WEBS

5-19=-530/4047, 5-17=-4030/539, 5-15=-248/2140, 13-15=-181/677, 7-15=-1248/315,

9-13=-525/112

NOTES-

1) N/A

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

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

Bottom chords connected as follows: 2x4 - 2 rows staggered at 0-2-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 3) 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.
- 4) 2x4 SPF No.2 bearing block 12" long at jt. 17 attached to each face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners per block. Bearing is assumed to be SPF No.2.
- 5) Unbalanced roof live loads have been considered for this design.
- 6) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 7) Provide adequate drainage to prevent water ponding.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2



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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



Job	Truss	Truss Type	Qty	Ply	summit/hawthorn#25/mo	
2592374	A11	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	144192341

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:13 2020 Page 2

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-RmNPLo0FwfR3VFEI9?pmlFr127JN5A2eZG5dTBy3QMq

- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 22, 170 lb uplift at joint 10, 638 lb uplift at joint 17 and 1134 lb uplift at joint 15.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 14) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 4-0-0 oc max. starting at 1-5-4 from the left end to 7-5-4 to connect truss(es) to back face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 518 lb down and 63 lb up at 3-5-4, and 1900 lb down and 401 lb up at 9-4-12 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: 1-2=-70, 2-3=-70, 3-11=-70, 19-22=-20, 15-18=-20, 14-23=-20

Concentrated Loads (lb)

Vert: 19=-1900(B) 26=-518(B) 27=-518(B) 28=-526(B) 29=-522(B)

Job Truss Truss Type Qty summit/hawthorn#25/mo 144192342 2592374 A12 **ROOF SPECIAL** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:14 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-vyxnZ81thzZw7PpVjjK?HTO8OXkOqqunowqA?dy3QMp 22-8-0 7-8-11 7-8-13 4x4 || Scale = 1:57.0 5.00 12 3x6 ≥ 10 4x6 = 5x8 8 7 4x4 3x4 || 4x4 = 3x8 II 6-10-8 6-10-8 0-4-0 7-8-11 Plate Offsets (X,Y)--[5:0-0-0,0-1-12], [5:0-3-7,Edge], [9:0-6-4,0-3-4] SPACING-**PLATES** LOADING (psf) CSI. DEFL. (loc) I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.53 Vert(LL) -0.12 7-8 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.58 Vert(CT) -0.20 7-8 >928 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.34 Horz(CT) -0.02 5 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 99 lb Matrix-AS BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

WEDGE Right: 2x4 SPF No.2

REACTIONS. (size) 10=Mechanical, 5=0-5-8, 9=0-3-8

Max Horz 10=-291(LC 8)

Max Uplift 10=-62(LC 13), 5=-156(LC 13), 9=-84(LC 13) Max Grav 10=295(LC 2), 5=746(LC 2), 9=1136(LC 2)

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

TOP CHORD 2-4=-295/178, 4-5=-1022/265

BOT CHORD 9-10=0/344, 2-9=-488/117, 5-7=-158/883 7-9=-204/1120, 4-9=-772/202, 4-7=-498/222 **WEBS**

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 23-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 10, 156 lb uplift at joint 5 and 84 lb uplift at joint 9.
- 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.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

1 Row at midpt

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Job Truss Truss Type Qty summit/hawthorn#25/mo 144192343 2592374 **B1 GABLE** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:26 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-YGgK4FAPsf4DZFkoQEXpn?uJzNzveBCYZokpQwy3QMd

10-0-0

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

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

Scale = 1:38.1

20-10-8 0-10-8

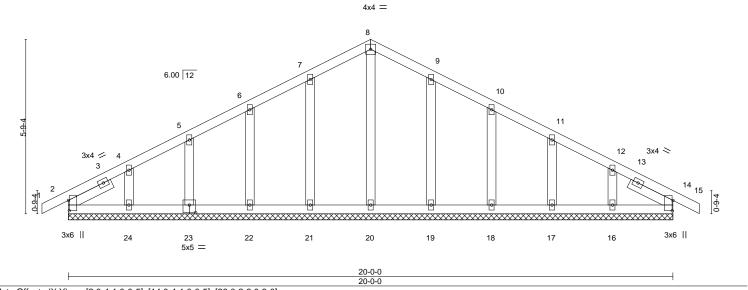


Plate Offsets (X,Y)--[2:0-4-1,0-0-5], [14:0-4-1,0-0-5], [23:0-2-8,0-3-0] SPACING-**PLATES** LOADING (psf) DEFL. in (loc) I/defl L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) -0.00 14 120 197/144 n/r MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) -0.00 14 n/r 120 BCLL 0.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 14 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 85 lb Matrix-S

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

0-10-8 0-10-8

SLIDER Left 2x4 SPF No.2 1-7-6, Right 2x4 SPF No.2 1-7-6

REACTIONS. All bearings 20-0-0.

Max Horz 2=86(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 21, 22, 23, 24, 19, 18, 17, 16

10-0-0

All reactions 250 lb or less at joint(s) 2, 20, 21, 22, 23, 24, 19, 18, 17, 16, 14

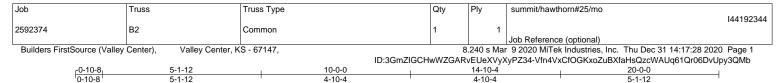
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-0-0, Exterior(2N) 2-0-0 to 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 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 21, 22, 23, 24,
- 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.

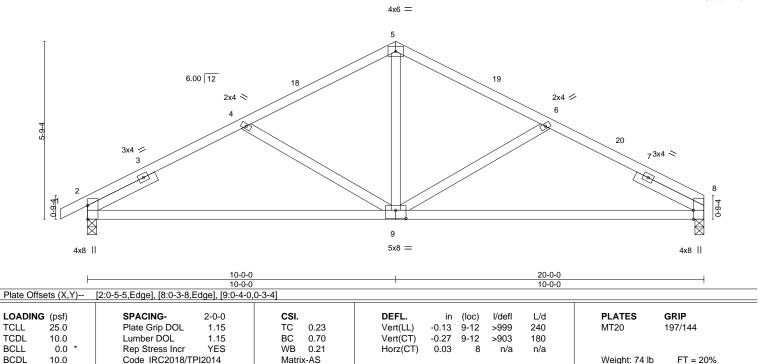


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Scale = 1:37.4



BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

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

REACTIONS. (size) 8=0-3-8, 2=0-3-8 Max Horz 2=93(LC 16)

Max Uplift 8=-75(LC 13), 2=-92(LC 12) Max Grav 8=899(LC 1), 2=963(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. $2-4=-1231/243,\ 4-5=-1048/195,\ 5-6=-1049/198,\ 6-8=-1315/248$ TOP CHORD

BOT CHORD 2-9=-158/1137. 8-9=-153/1143

WEBS 5-9=-27/522, 6-9=-356/169, 4-9=-350/167

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 20-0-0 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 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 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.
- 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.



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Job Truss Truss Type Qty summit/hawthorn#25/mo 144192345 2592374 **B**3 Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:29 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-zrLSiGCH9aSoQjTN5M5WOdWjAarerMg?FmzT1Fy3QMa 21-10-8 0-10-8 16-6-0 20-0-0

6-6-0

Scale = 1:39.8

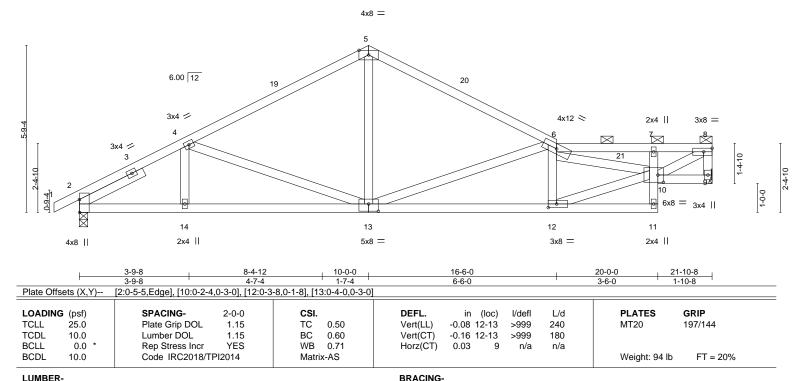
1-10-8

3-6-0

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (4-9-13 max.): 6-8.

Rigid ceiling directly applied.



TOP CHORD

BOT CHORD

LUMBER-

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

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

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

Max Horz 2=107(LC 12)

3-9-8

1-4-4

4-10-4

Max Uplift 9=-95(LC 13), 2=-93(LC 12) Max Grav 9=977(LC 1), 2=1040(LC 1)

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

TOP CHORD 2-4=-1520/203, 4-5=-1233/205, 5-6=-1243/197, 6-7=-1399/175, 7-8=-1417/180,

8-9=-877/127

2-14=-224/1325, 13-14=-224/1325, 12-13=-245/1872

BOT CHORD WEBS 6-12=-415/136, 10-12=-238/1773, 6-10=-530/89, 8-10=-198/1533, 5-13=-3/549,

6-13=-895/158, 4-13=-402/147

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 21-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) 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.



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Job Truss Truss Type Qty summit/hawthorn#25/mo 144192346 2592374 B4 Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:30 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-R1vqwcDvwtaf2s1af4clxr3xJ_Dbaux8UQi0Ziy3QMZ 21-10-8 0-10-8 14-10-0 20-0-0

4-10-0

5-2-0

Structural wood sheathing directly applied, except end verticals, and

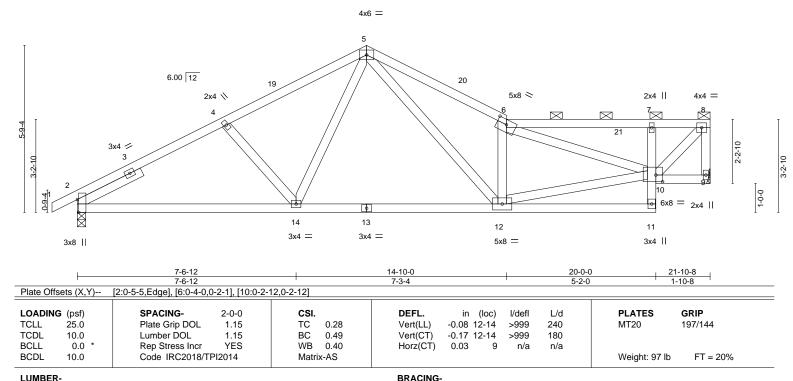
2-0-0 oc purlins (5-10-10 max.): 6-8.

Rigid ceiling directly applied.

4-10-4

Scale = 1:39.8

1-10-8



TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

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

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

Max Horz 2=120(LC 9)

Max Uplift 9=-99(LC 13), 2=-93(LC 12) Max Grav 9=977(LC 1), 2=1040(LC 1)

5-1-12

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

TOP CHORD 2-4=-1477/223, 4-5=-1325/221, 5-6=-1806/304, 6-7=-891/147, 7-8=-866/136,

8-9=-896/132

BOT CHORD 2-14=-253/1275, 12-14=-161/978, 7-10=-294/114

WEBS 4-14=-279/156, 5-14=-35/387, 5-12=-128/875, 6-12=-829/210, 10-12=-227/1482,

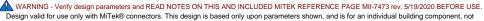
6-10=-773/91, 8-10=-172/1205

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 21-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) 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.



January 4,2021





Job Truss Truss Type Qty summit/hawthorn#25/mo 144192347 2592374 **B**5 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:31 2020 Page 1

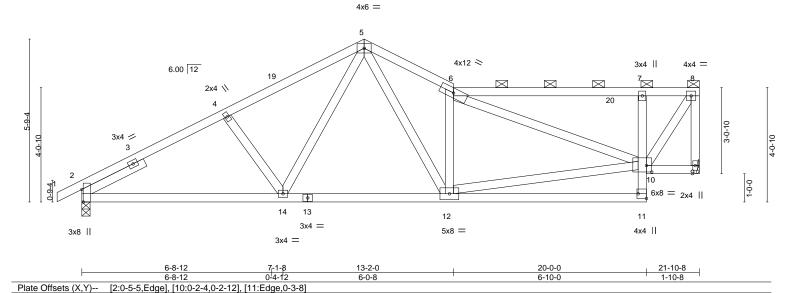
3-2-0

4-10-4

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-vETD7yEXhBiVf0cmCn7_U2b25OZgJGKli4Sa58y3QMY 21-10-8 13-2-0 20-0-0 6-10-0

Scale = 1:40.8

1-10-8



LOADING (psf) SPACING-CSI DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.53 Vert(LL) -0.07 12-14 >999 240 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.50 Vert(CT) -0.14 11-12 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.71 Horz(CT) 0.03 9 n/a n/a Code IRC2018/TPI2014 **BCDL** 10.0 Weight: 103 lb FT = 20%Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

0-10-8

5-1-12

WEBS 2x4 SPF No.2

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

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

Max Horz 2=141(LC 9)

Max Uplift 9=-106(LC 13), 2=-92(LC 12) Max Grav 9=977(LC 1), 2=1040(LC 1)

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

TOP CHORD 2-4=-1478/212, 4-5=-1347/220, 5-6=-1567/270, 6-7=-679/142, 7-8=-639/126,

8-9=-895/135

BOT CHORD 2-14=-286/1277, 12-14=-188/973, 7-10=-425/155

WEBS 4-14=-275/155, 5-14=-63/383, 5-12=-109/774, 6-12=-730/198, 10-12=-244/1237,

6-10=-766/93, 8-10=-179/1120

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2E) 10-0-0 to 13-2-0, Interior(1) 13-2-0 to 21-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 9=106.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192348 2592374 B6 Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:33 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-rcbzYeGoCoyDvKm8KC9SZTgSQBFLnFiaANxgA0y3QMW

11-6-0

1-6-0

4-10-4

15-9-0

4-3-0

Scale = 1:39.8

21-10-8

1-10-8

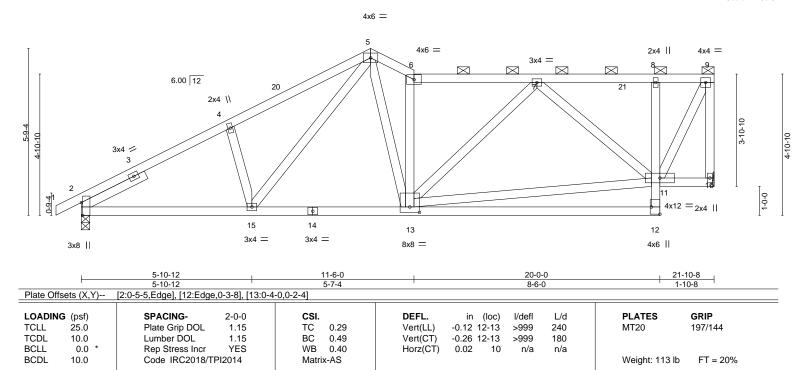
20-0-0

4-3-0

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (5-2-8 max.): 6-9.

Rigid ceiling directly applied.



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

0-10-8

5-1-12

2x4 SPF No.2 TOP CHORD

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

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

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

Max Horz 2=163(LC 9)

Max Uplift 10=-114(LC 13), 2=-92(LC 12) Max Grav 10=977(LC 1), 2=1040(LC 1)

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

TOP CHORD 2-4=-1479/197, 4-5=-1431/251, 5-6=-1301/222, 6-7=-1168/186, 7-8=-457/111,

8-9=-457/109. 9-10=-902/140 2-15=-308/1276, 13-15=-211/987

BOT CHORD WEBS

4-15=-269/159, 5-15=-125/423, 5-13=-60/681, 6-13=-728/147, 7-11=-755/150,

9-11=-149/961, 11-13=-244/840, 7-13=-1/262

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2E) 10-0-0 to 11-6-0, Interior(1) 11-6-0 to 21-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 10=114.
- 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.



January 4,2021





Job Truss Truss Type Qty summit/hawthorn#25/mo 144192349 2592374 **B7** Roof Special Job Reference (optional)

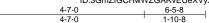
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

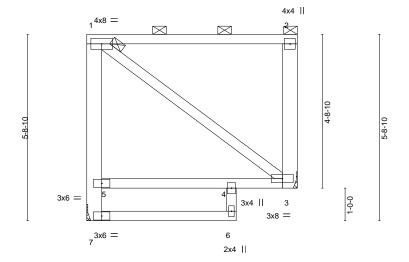
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:33 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-rcbzYeGoCoyDvKm8KC9SZTgRyBKOnJRaANxgA0y3QMW

2-0-0 oc purlins (6-0-0 max.): 1-2, except end verticals.

Rigid ceiling directly applied.



Scale = 1:35.3



4-7-0	6-5-8
4-7-0	1-10-8

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	0.38	Vert(LL)	-0.01	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.03	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-AS						Weight: 45 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

1-3: 2x4 SPF No.2

REACTIONS.

(size) 7=Mechanical, 3=Mechanical

Max Horz 7=-177(LC 10)

Max Uplift 7=-121(LC 8), 3=-121(LC 9) Max Grav 7=270(LC 1), 3=270(LC 1)

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

TOP CHORD 5-7=-236/359, 1-5=-211/342, 2-3=-210/251

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=121, 3=121,
- 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.



January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192350 2592374 C₁ HIP GIRDER Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:36 2020 Page 1

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

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-GBG6AglqVjLomnVj?Lj9B6luXPAH_X01sL9LnLy3QMT

Structural wood sheathing directly applied or 3-3-14 oc purlins,

5-24, 21-23

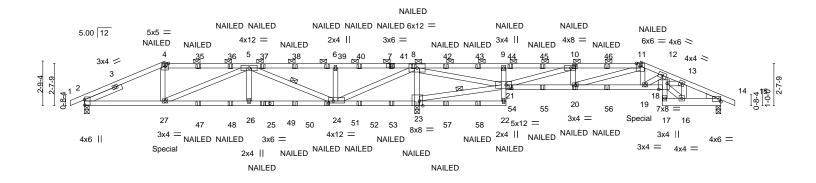
2-0-0 oc purlins (3-9-12 max.): 4-11.

1 Row at midpt

Rigid ceiling directly applied or 3-4-1 oc bracing.

35-10-8 1-4-8 20-10-8 26-2-0 30-4-0 34-6-0 39-6-0 5-0-0 5-2-10 5-4-6 5-3-8 5-3-8 4-2-0 4-2-0 3-7-8

Scale = 1:71.5



1	5	i-0-0 _I 10-2-10)	15-7-0	20-6-0	20 ₁ 10-8	26-2-0	30-4-0	₁ 34-6	·0 35-10-8	39-6-0
	5	i-0-0 5-2-10		5-4-6	4-11-0	0-4-8	5-3-8	4-2-0	4-2-	0 '1-4-8'	3-7-8
Plate Offsets ((X,Y)	[2:0-3-15,0-0-2], [10:0-3-	8,0-2-0], [18:0	0-6-4,0-4-4], [21	:0-4-4,0-2-8], [[23:0-2-8,Edge], [24:0-3-8,0-1	-8]			
LOADING (ps	sf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	_/d	PLATES	GRIP
TCLL 25	.Ó	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.14 19-20	>999 2	40	MT20	197/144
TCDL 10	.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.26 19-20	>869 1	80		
BCLL 0	.0 *	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.09 14	n/a	n/a		
BCDL 10	.0	Code IRC2018/TI	PI2014	Matrix-	MS	, ,				Weight: 16	0 lb FT = 20%

TOP CHORD

BOT CHORD

WEBS

BRACING-LUMBER-

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

14-17: 2x6 SPF No.2

2x4 SPF No.2 WEBS

WEDGE

Right: 2x4 SP No.3

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

REACTIONS. (size) 14=0-3-8, 2=0-3-8, 23=0-3-8

Max Horz 2=-37(LC 9)

Max Uplift 14=-156(LC 9), 2=-198(LC 8), 23=-639(LC 4) Max Grav 14=794(LC 22), 2=996(LC 21), 23=3294(LC 1)

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

TOP CHORD 2-4=-1647/356, 4-5=-1476/350, 5-6=-142/283, 6-8=-142/283, 10-11=-1802/427,

11-12=-1997/413, 12-13=-2703/527, 13-14=-1116/228

BOT CHORD 2-27=-301/1491, 26-27=-357/1587, 24-26=-357/1587, 23-24=-2817/553, 9-21=-525/205,

20-21=-343/1798, 19-20=-319/1862, 18-19=-455/2608, 12-18=-147/855, 16-17=-46/254,

14-16=-172/989

WEBS 4-27=0/331, 5-26=0/310, 5-24=-1771/337, 6-24=-442/207, 8-24=-560/3028,

21-23=-3024/572, 8-21=-616/2943, 10-21=-2003/357, 11-19=-4/306, 12-19=-827/155,

13-16=-977/201, 16-18=-170/985, 13-18=-252/1480, 8-23=-2554/621

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph, TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=156, 2=198, 23=639. 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

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

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

Continued on page 2



January 4,2021

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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	summit/hawthorn#25/mo	
2592374	C1	HIP GIRDER	1	1	14	44192350
2002014	01	TIII GINDEN			Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:36 2020 Page 2 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-GBG6AglgVjLomnVj?Lj9B6luXPAH_X01sL9LnLy3QMT

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 164 lb down and 44 lb up at 5-0-0, and 3 lb down and 0 lb up at 34-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-70, 4-11=-70, 11-15=-70, 22-31=-20, 18-21=-20, 17-28=-20

Concentrated Loads (lb)

Vert: 4=-47(B) 7=-47(B) 27=-164(B) 8=-47(B) 10=-94(B) 11=-94(B) 19=-3(B) 23=-24(B) 35=-47(B) 36=-47(B) 37=-47(B) 38=-47(B) 39=-47(B) 40=-47(B) 42=-47(B)

43=-47(B) 44=-94(B) 45=-94(B) 46=-94(B) 47=-24(B) 48=-24(B) 50=-24(B) 51=-24(B) 52=-24(B) 53=-24(B) 57=-24(B) 58=-24(B)

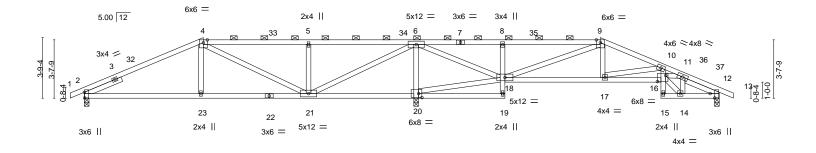


Job Truss Truss Type Qty summit/hawthorn#25/mo 144192351 2592374 C2 Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:38 2020 Page 1

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-CaOsbLJw1LbW?5f67lldGXOFNCwBSRpKJfeRrEy3QMR

26-2-0 35-10-8 39-6-0 -0-10-8 0-10-8 7-4-13 6-5-12 6-7-8 5-8-0 5-11-3 3-9-5 3-7-8

Scale = 1:71.7



	7-4-13	13-10-8	20-6-0	26-2-0	32-1-3	35-10-8	39-6-0
	7-4-13	6-5-12	6-7-8	5-8-0	5-11-3	3-9-5	3-7-8
Plate Offsets (X,Y)	[2:0-4-3,0-0-2], [12:0-	3-4,0-3-6], [16:0-6-	4,0-4-8], [20:0-2-8,0-3-0]				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOI Lumber DOL Rep Stress Inc Code IRC201:	1.15 r YES	CSI. TC 0.53 BC 0.64 WB 0.72 Matrix-AS	DEFL. in (loc) Vert(LL) -0.10 16-17 Vert(CT) -0.18 16-17 Horz(CT) 0.07 12	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20 Weight: 161 lb	GRIP 197/144

LUMBER-BRACING-

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

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 4-9. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied.

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-4-1

REACTIONS. (size) 12=0-3-8, 2=0-3-8, 20=0-3-8

Max Horz 2=53(LC 12)

Max Uplift 12=-117(LC 13), 2=-147(LC 12), 20=-260(LC 9) Max Grav 12=654(LC 1), 2=796(LC 25), 20=2266(LC 1)

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

TOP CHORD 2-4=-1059/237, 4-5=-540/248, 5-6=-538/247, 9-10=-981/195, 10-11=-2195/368, 11-12=-411/89

2-23=-185/958, 21-23=-188/951, 20-21=-1396/164, 8-18=-407/152, 17-18=-85/872,

16-17=-320/2146, 10-16=-77/702, 12-14=-114/794 WEBS

4-23=0/281, 4-21=-557/46, 5-21=-500/175, 6-21=-210/1928, 18-20=-1389/168,

6-18=-198/1467, 9-18=-920/70, 9-17=0/349, 10-17=-1283/241, 11-14=-810/137,

14-16=-145/1029, 11-16=-149/1109, 6-20=-1881/302

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed: MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-4-13, Exterior(2R) 7-4-13 to 11-7-11, Interior(1) 11-7-11 to 32-1-3, Exterior(2R) 32-1-3 to 36-4-2, Interior(1) 36-4-2 to 40-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 20 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) 12=117, 2=147, 20=260,
- 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.



January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192352 2592374 C3 Hip Girder Job Reference (optional)

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

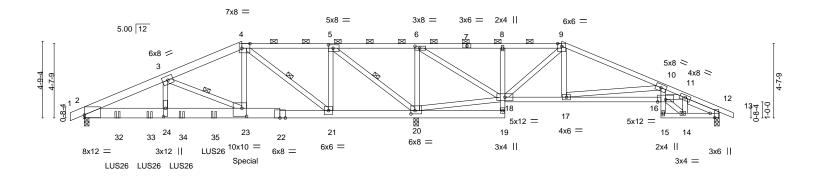
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:40 2020 Page 1

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

2-0-0 oc purlins (5-4-14 max.): 4-9.

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-8yWc01LBZyrEEPoVEAo5LyTVy0bbwlScnz7Yw6y3QMP 29-8-6 9-9-10 26-2-0 32-9-7 35-10-8 37-4-8 39-6-040-4-8 4-9-1 5-6-5 5-4-9 5-5-7 3-6-6 3-1-1 3-1-1 1-6-0 2-1-8 0-10-8

Scale = 1:71.7



			-9-10	15-3-15	20-6-	0 20 _T 8-9	26-2-0	29-8-6	32-9-7	35-10-8 37-4-8	
	5	-0-9 ' 4	1-9-1	5-6-5	5-2-1	1 0-2-9	5-5-7	3-6-6	3-1-1	<u>' 3-1-1 '1-6-0 '</u>	2-1-8
Plate Offsets	(X,Y)	[2:0-0-0,0-2-1], [4:0	-6-0,Edge], [5	5:0-3-8,0-2-8], [6:0-3	3-8,0-1-8], [12	2:0-3-4,0-3-6], [20	:0-3-0,0-2-8], [23:0-3-8,0-6	-0], [24:0-6-4,0	0-1-8]	
LOADING (p:	sf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25	5.0	Plate Grip D	OL 1.15	TC	0.85	Vert(LL)	-0.15 23-24	>999	240	MT20	197/144
TCDL 10	0.0	Lumber DOL	_ 1.15	BC	0.58	Vert(CT)	-0.25 23-24	>973	180		
BCLL C	0.0 *	Rep Stress I	ncr NO	WB	0.91	Horz(CT)	0.07 12	n/a	n/a		
BCDL 10	0.0	Code IRC20)18/TPI2014	Matri	x-MS					Weight: 219 lb	FT = 20%

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD TOP CHORD 1-4: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. 3-23, 4-21, 5-20 2-22: 2x8 SP 2400F 2.0E, 19-22: 2x6 SP 2400F 2.0E WEBS 1 Row at midpt

WEBS 2x4 SPF No.2 Right 2x4 SPF No.2 2-2-2 SLIDER

REACTIONS. (size) 2=0-3-8, 12=0-3-8, 20=0-3-8

Max Horz 2=72(LC 8)

Max Uplift 2=-495(LC 8), 12=-133(LC 30), 20=-457(LC 5)

Max Grav 2=3681(LC 21), 12=485(LC 22), 20=3685(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-6682/927, 3-4=-3425/554, 4-5=-1014/266, 5-6=-125/1854, 6-8=-67/739,

8-9=-73/764, 9-10=-395/209, 10-11=-1319/396, 11-12=-302/104

2-24=-864/6132, 23-24=-864/6132, 21-23=-462/3230, 20-21=-220/1014, 8-18=-317/117,

BOT CHORD 17-18=-146/313, 16-17=-401/1435, 10-16=0/307, 12-14=-134/566

3-24=-223/2374, 3-23=-3315/456, 4-23=-371/2614, 4-21=-2923/398, 5-21=-161/1680,

WEBS 5-20=-3304/456, 6-20=-1071/194, 18-20=-1657/220, 6-18=-114/1281, 9-18=-972/110, 9-17=0/350, 10-17=-1340/348, 11-14=-396/102, 11-16=-187/649, 14-16=-120/633

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=495 12=133 20=457 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 LUS26 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 8-0-12 to connect truss(es) to front face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 250 lb down and 141 lb up at 10-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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



January 4,2021

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





Job	Truss	Truss Type	Qty	Ply	summit/hawthorn#25/mo
					144192352
2592374	C3	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:40 2020 Page 2 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-8yWc01LBZyrEEPoVEAo5LyTVy0bbwlScnz7Yw6y3QMP

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, 9-13=-70, 19-25=-20, 16-18=-20, 15-28=-20

Concentrated Loads (lb)

Vert: 23=-250(F) 32=-957(F) 33=-957(F) 34=-957(F) 35=-957(F)

Job Truss Truss Type Qty summit/hawthorn#25/mo 144192353 2592374 CJ1 Diagonal Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:41 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-c94?DNMpKGz5sZNhouJKt90reP3Xfz4m0dt6SZy3QMO 2-9-3 1-2-14 Scale = 1:17.6 4x4 | NAILED 4.24 12 NAILED 3x4 = 0-9-4 П 7 6 4x4 = 3x6 NAILED NAILED 2-9-3 Plate Offsets (X,Y)-- [8:0-1-12,0-0-0], [8:0-2-12,0-5-4]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.14	Vert(LL) -0.00 7 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) -0.00 7-8 >999 180	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.05	Horz(CT) -0.00 4 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 24 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

(size) 8=0-4-9, 4=Mechanical, 6=Mechanical

Max Horz 8=101(LC 7) Max Uplift 8=-81(LC 4), 4=-23(LC 4), 6=-13(LC 8) Max Grav 8=339(LC 1), 4=74(LC 1), 6=148(LC 1)

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

TOP CHORD 2-8=-316/93, 2-3=-255/25

2x4 SPF No.2

NOTES-

WEBS

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-4=-70, 5-8=-20 Concentrated Loads (lb) Vert: 7=2(F=1, B=1)



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

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

except end verticals.

January 4,2021





Job Truss Truss Type Qty summit/hawthorn#25/mo 144192354 2592374 CJ₂ Diagonal Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:42 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-4LeNRjNR5Z5yUiytMbqZQNYvbpLAOQrvEHcf_?y3QMN 4-11-14 6-1-3 1-4-6 4-11-14 1-1-4 Scale = 1:18.2 NAILED 2x4 || 3 3.84 12 NAILED 1-8-11 -8-3 NAILED 6 5 6x6 = NAILED NAILED NAILED 2.56 12 3x6 4-11-14 6-1-3 4-11-14 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL Vert(LL) -0.07 240 197/144 **TCLL** 1.15 TC 0.58 6-7 >999 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.38 Vert(CT) -0.14 >522 180 6-7 **BCLL** 0.0 Rep Stress Incr NO WB 0.02 Horz(CT) 0.04 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

WEBS 2x4 SPF No.2

10.0

REACTIONS. (size) 7=0-3-11, 4=Mechanical, 5=Mechanical Max Horz 7=84(LC 21)

Code IRC2018/TPI2014

Max Uplift 7=-81(LC 4), 4=-14(LC 8), 5=-46(LC 8) Max Grav 7=390(LC 1), 4=126(LC 1), 5=137(LC 1)

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

TOP CHORD 2-7=-321/106

NOTES-

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

Matrix-MP

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 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.
- 8) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-4=-70, 6-7=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 6=-7(B) 3=-2(B) 9=-11(F) 10=3(B)



Weight: 18 lb

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

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

except end verticals.

FT = 20%

January 4,2021





Job Truss Truss Type Qty summit/hawthorn#25/mo 144192355 2592374 CJ3 Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:43 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-YXBle3N3stDo5sX3vJLoza5BhDle7sL3TxMCWRy3QMM 1-4-6 3-0-9 3-0-9 Scale = 1:17.3 3x4 II NAILED 10 3.84 12 NAILED 3x4 = 3 NAILED 2-4-8 0-9-4 11 12 7 6 NAILED NAILED 4x4 = 3x6 NAILED 6x6 = 3-0-9 Plate Offsets (X,Y)--[4:0-2-13,0-0-8], [8:0-3-0,0-1-12], [8:0-1-11,0-0-9]

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

in (loc)

7-8

4

-0.00

-0.01

-0.00

I/defl

>999

>999

except end verticals.

n/a

L/d

240

180

n/a

PLATES

Weight: 26 lb

MT20

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

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

GRIP

197/144

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

25.0

10.0

10.0

0.0

WEBS 2x4 SPF No.2

REACTIONS. (size) 8=0-4-9, 4=Mechanical, 6=Mechanical

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Horz 8=100(LC 5)

Max Uplift 8=-93(LC 4), 4=-41(LC 5), 6=-15(LC 8) Max Grav 8=376(LC 1), 4=87(LC 1), 6=171(LC 1)

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

2-8=-352/106, 2-3=-312/38 TOP CHORD

BOT CHORD 6-7=-56/264

WFBS 2-7=-4/269, 3-6=-298/68

NOTES-

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

TC

BC

WB

Matrix-MP

0.17

0.11

0.07

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

1.15

1.15

NO

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 8) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-70, 2-4=-70, 5-8=-20

Concentrated Loads (lb)

Vert: 7=-1(F) 10=-8(B) 11=3(B) 12=-6(B)



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Job Truss Truss Type Qty summit/hawthorn#25/mo 144192356 2592374 CJ4 Diagonal Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:45 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-VwJV3IPJOUTWLAhS1kNG2?AVN1OWblmLwFrJbKy3QMK 4-4-0 1-4-6 4-4-0 1-9-3 3x8 = 4Scale = 1:16.5 NAII FD 0-4-2 3x4 = 13 3.84 12 3 NAILED 1-8-11 12 NAILED NAII FD 6 βx4 = 5x5 = 2x4 || 2.56 12 15 14 9 NAILED NAILED 2x4 II 3x8 | 4-11-14 4-4-0 0-7-15 Plate Offsets (X,Y)--[4:0-3-8,0-1-4] SPACING-LOADING (psf) 2-0-0 CSI DEFL. in (loc) I/def L/d **PLATES** GRIP Plate Grip DOL TCLL 25.0 1.15 TC 0.29 Vert(LL) -0.01 9-10 >999 240 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.27 Vert(CT) -0.02 9-10 >999 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.07 Horz(CT) 0.01 6 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MS Weight: 22 lb **BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 2x4 SPF No.2 except end verticals.

BOT CHORD

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

LUMBER-

WEBS

REACTIONS. (size) 6=Mechanical, 10=0-4-9, 4=Mechanical

Max Horz 10=85(LC 5)

2x4 SPF No.2

Max Uplift 10=-92(LC 4), 4=-62(LC 8)

Max Grav 6=33(LC 3), 10=376(LC 1), 4=237(LC 1)

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

TOP CHORD 2-10=-335/118 **BOT CHORD** 7-8=-68/285 WFBS 4-7=-70/288

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-70, 2-4=-70, 9-10=-20, 7-8=-20, 5-7=-20

Concentrated Loads (lb)

Vert: 7=-6(F) 13=-8(F) 14=3(F) 15=-1(B)



January 4,2021





Job Truss Truss Type Qty summit/hawthorn#25/mo 144192357 2592374 CJ5 Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:46 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-z6tuG4Qy8obNyKGebRuVaDjhCQkfKDQV9vas7my3QMJ 3-6-2 3-6-2 4-8-1 1-4-13 1-1-15 Scale = 1:12.3 3x8_H 0-4-0 NAILED 3.12 12 0-10-14 3 2 4x6 = 1-6-13 5 6 2x4 || NAILED 3x6 || 4-8-1 3-6-2 Plate Offsets (X,Y)--[3:0-2-12,0-2-9] SPACING-(loc) **PLATES** LOADING (psf) 2-0-0 CSI DEFL. in I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.22 Vert(LL) -0.01 6 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.28 Vert(CT) -0.026 >999 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.04 Horz(CT) 0.01 5 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MP Weight: 14 lb LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 4-8-1 oc purlins, **BOT CHORD** 2x4 SPF No.2 except end verticals.

BOT CHORD

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 7=0-4-11, 4=Mechanical, 5=Mechanical

Max Horz 7=56(LC 4)

Max Uplift 7=-84(LC 4), 4=-253(LC 1), 5=-82(LC 8) Max Grav 7=327(LC 1), 4=45(LC 8), 5=444(LC 1)

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

TOP CHORD 2-7=-293/103 WEBS 4-5=-358/74

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5 except (jt=lb) 4=253
- 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 8) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 6-7=-20, 3-5=-20

Concentrated Loads (lb)

Vert: 6=-12(F)



January 4,2021





Job Truss Truss Type Qty summit/hawthorn#25/mo 144192358 2592374 CJ6 Diagonal Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:47 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-RJRGUQQav6jEaUrr88Qk7QGlzq2P3e5eOZKQfCy3QMI 1-4-6 3-0-9 3-0-9 Scale = 1:16.9 3x4 II 3 7 0-4-2 3.84 12 NAILED NAILED 8 2-3-8 10 NAILED NAILED 3x6 || Plate Offsets (X,Y)-- [3:0-3-5,0-0-8]

LOADING (ps	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25	5.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.06	5-6	>999	240	MT20	197/144
TCDL 10	0.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.12	5-6	>555	180		
BCLL 0	0.0 *	Rep Stress Incr	NO	WB	0.15	Horz(CT)	-0.07	3	n/a	n/a		
BCDL 10	0.0	Code IRC2018/TF	PI2014	Matri	x-MP						Weight: 18 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x4 SPF No.2 TOP CHORD

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

(size) 6=0-4-9, 3=Mechanical, 5=Mechanical

Max Horz 6=87(LC 4)

Max Uplift 6=-119(LC 4), 3=-1287(LC 4), 5=-76(LC 19) Max Grav 6=385(LC 1), 3=190(LC 1), 5=1279(LC 21)

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

TOP CHORD 2-6=-324/153 WEBS 3-5=-1240/114

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) N/A
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 6=119, 3=1287.
- 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 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: 1-2=-70, 2-3=-70, 4-6=-20

Concentrated Loads (lb) Vert: 10=-10(B) 11=0(F)



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

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

except end verticals.

January 4,2021





Job Truss Truss Type Qty summit/hawthorn#25/mo 144192359 2592374 CJ7 Diagonal Hip Girder 2 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:47 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-RJRGUQQav6jEaUrr88Qk7QGn4q3b3e4eOZKQfCy3QMI

2-9-3 2-9-3

Scale = 1:17.2

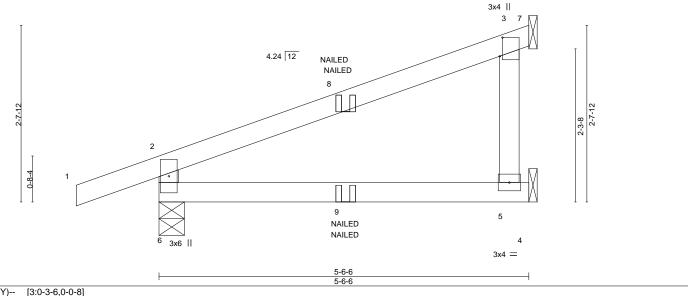


Plate Offsets (X,Y)--SPACING-**PLATES** LOADING (psf) CSI DEFL. in (loc) I/def L/d GRIP Plate Grip DOL TCLL 25.0 1.15 TC 0.53 Vert(LL) -0.04 5-6 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.30 Vert(CT) -0.08 5-6 >763 180 BCLL 0.0 Rep Stress Incr NO WB 0.15 Horz(CT) -0.07 3 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MP Weight: 17 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 6=0-4-9, 3=Mechanical, 5=Mechanical

Max Horz 6=87(LC 4)

Max Uplift 6=-112(LC 4), 3=-1291(LC 4), 5=-87(LC 19) Max Grav 6=343(LC 1), 3=180(LC 1), 5=1287(LC 21)

1-2-14

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

2-6=-294/143 TOP CHORD WEBS 3-5=-1254/122

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 6=112, 3=1291,
- 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-70, 2-7=-70, 4-6=-20

Concentrated Loads (lb)

Vert: 9=2(F=1, B=1)



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

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

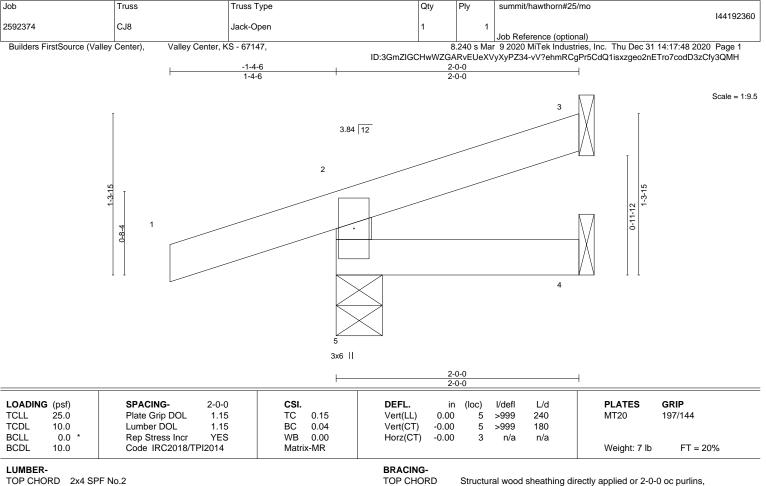
except end verticals.

January 4,2021









TOP CHORD

BOT CHORD

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

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

Max Horz 5=39(LC 8) Max Uplift 5=-80(LC 8), 3=-18(LC 12)

Max Grav 5=232(LC 1), 3=33(LC 1), 4=30(LC 3)

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

NOTES-

BOT CHORD

REACTIONS.

WEBS

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

except end verticals.









Job Truss Truss Type Qty summit/hawthorn#25/mo 144192361 2592374 CJ9 Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:49 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-NhZ0v6SqRjzyqn_DGZSCCrL5QekoXYaxrtpXk5y3QMG 1-4-6 3-0-9 3-0-9 Scale = 1:16.9 3x4 II 3 7 NAILED 0-4-2 10 3.84 12 NAILED 9 NAILED 8 2-3-8 0-8-4 12 13 11 NAILED NAILED NAILED 3x6 || 3x6 || 6-1-3 6-0-12 Plate Offsets (X,Y)-- [3:0-3-5,0-0-8]

LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.67	DEFL. in (loc) I/defl L/d Vert(LL) -0.06 5-6 >999 240	PLATES GRIP MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0.12 5-6 >549 180	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.15	Horz(CT) -0.07 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 18 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x4 SPF No.2

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

(size) 6=0-4-9, 5=Mechanical, 3=Mechanical

Max Horz 6=87(LC 4)

Max Uplift 6=-121(LC 4), 5=-75(LC 19), 3=-1297(LC 4) Max Grav 6=384(LC 1), 5=1289(LC 21), 3=191(LC 1)

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

TOP CHORD 2-6=-324/156 WEBS 3-5=-1240/114

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) N/A
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 6=121, 3=1297.
- 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 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: 1-2=-70, 2-3=-70, 4-6=-20

Concentrated Loads (lb)

Vert: 10=-1(B) 11=3(B) 12=-10(F) 13=-6(B)



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

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

except end verticals.

January 4,2021





Job Truss Truss Type Qty summit/hawthorn#25/mo 144192362 2592374 D1 Half Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:51 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-J4gnKoU4zKDg358cN_UgHGQSFRKJ?NmEJBIdo_y3QME

0-8-8

3-0-0

5-8-4

2-8-4

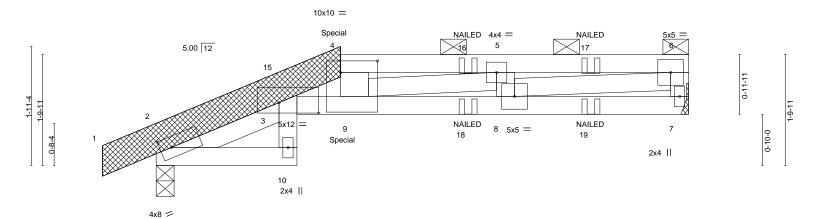
Scale = 1:18.8

2-11-12

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

except end verticals, and 2-0-0 oc purlins (3-7-14 max.): 4-6.

Rigid ceiling directly applied or 6-2-10 oc bracing.



		-	2-3-8	0-8-8		2-4-0		0-4-4			2-11-12	\dashv
Plate Offs	sets (X,Y)	[2:0-2-2,0-2-1], [3:0	-7-12,0-2-1], [4:0-7	-4,0-2-4]								
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip D	OL 1.15	TC	0.58	Vert(LL)	-0.08	8-9	>999	240	MT20	197/144
CDL	10.0	Lumber DOL	. 1.15	BC	0.76	Vert(CT)	-0.13	8-9	>794	180		
BCLL	0.0 *	Rep Stress I	ncr NO	WB	0.49	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code IRC20	18/TPI2014	Matrix	-MP	' '					Weight: 50 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2-3-8 2-3-8

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

0-10-8

4-6: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x4 SPF No.2 *Except* 4-9: 2x6 SPF No.2 **OTHERS** 2x6 SPF 2100F 1.8E

LBR SCAB 1-4 2x6 SPF 2100F 1.8E both sides

SLIDER Left 2x4 SPF No.2 1-10-14

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

Max Horz 2=46(LC 5)

Max Uplift 7=-164(LC 5), 2=-214(LC 8) Max Grav 7=646(LC 1), 2=757(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 3-12=-665/216, 3-4=-2181/737, 4-5=-2322/751, 5-6=-1923/529, 6-7=-581/166

BOT CHORD 3-9=-906/2626, 8-9=-539/1923

WEBS 5-8=-345/142, 6-8=-550/1977, 4-9=-491/283, 5-9=-386/443

NOTES-

- 1) Attached 4-4-11 scab 1 to 4, both face(s) 2x6 SPF 2100F 1.8E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-1-4 from end at joint 1, nail 3 row(s) at 7" o.c. for 4-2-0.
- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=164, 2=214,
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 120 lb down and 324 lb up at 3-0-0 on top chord, and 471 lb down and 138 lb up at 3-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

ப்வூர்கள்கள் வருக்கு வருக்கிய (E) section, loads applied to the face of the truss are noted as front (F) or back (B)



January 4,2021

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





Job	Truss	Truss Type	Qty	Ply	summit/hawthorn#25/mo	٦
					144192362	
2592374	D1	Half Hip Girder	1	1		
					Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:51 2020 Page 2 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-J4gnKoU4zKDg358cN_UgHGQSFRKJ?NmEJBldo_y3QME

LOAD CASE(S) Standard

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

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

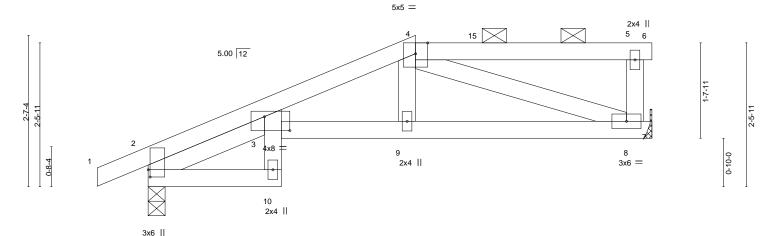
Concentrated Loads (lb)

Vert: 4=67(F) 9=-471(F) 16=-35(F) 17=-35(F) 18=-52(F) 19=-52(F)

Job Truss Truss Type Qty summit/hawthorn#25/mo 144192363 2592374 D2 Half Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:53 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-GToXkUVLVyUOIPI_VPW8NhVkHF7DTM3XmVnktsy3QMC

2-3-11 4-0-13

Scale = 1:19.8



8-8-0 4-0-13 Plate Offsets (X,Y)--[2:0-1-8,0-0-6], [3:0-5-4,0-2-14] SPACING-(loc) **PLATES** LOADING (psf) CSI. in I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.87 Vert(LL) -0.17 10 >594 240 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.22 Vert(CT) -0.3010 >332 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.18 Horz(CT) 0.21 8 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 32 lb Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

LUMBER-

WEBS

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

4-6: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2

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

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

Max Horz 2=78(LC 12)

Max Uplift 2=-47(LC 12), 8=-46(LC 9) Max Grav 2=441(LC 1), 8=386(LC 1)

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

2-3-8

0-10-8

TOP CHORD 3-12=-791/340, 3-4=-534/140 **BOT CHORD** 3-9=-194/561, 8-9=-195/552

WEBS 4-8=-589/208

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; 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 4-7-3, Exterior(2E) 4-7-3 to 8-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192364 2592374 D3 Half Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:54 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-kfMvyqWzGFcFwZtB372Nvv2uWfTSCqvg?9WIPJy3QMB 6-2-6 0-10-8 3-10-14 2-5-10 Scale = 1:22.3 5x5 = 2x4 || 5 5.00 12 8x 9 8 0-110-0 2x4 || 3x6 =

	2-3-8	6-2-6	8-8-0
	2-3-8	3-10-14	2-5-10
Plate Offsets (X,Y) [2:0-1-8,0-0-6], [3:	0-5-4,0-2-14]		

10 2x4 ||

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	0.90	Vert(LL)	-0.25	10	>399	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.44	10	>229	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.30	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matri	x-AS						Weight: 32 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

LUMBER-

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

4-6: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2

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

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

Max Horz 2=103(LC 12)

Max Uplift 2=-48(LC 12), 8=-38(LC 8) Max Grav 2=441(LC 1), 8=386(LC 1)

3x6 II

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

TOP CHORD 3-12=-791/316, 3-4=-323/56 **BOT CHORD** 3-9=-113/305, 8-9=-114/297

WEBS 4-8=-410/157

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; 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 6-2-6, Exterior(2E) 6-2-6 to 8-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192365 2592374 D4 Half Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:55 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-CrwH99Xb1Zk5YiSNcqZcS6b4z3mexHiqEoGryly3QMA 5-10-8 8-8-0 2-3-8 2-3-8 0-10-8 3-7-0 1-11-2 0-10-6 Scale = 1:24.6 4x4 = 2x4 || 5 6 2x4 📏 5.00 12 4 x8 0-10-0 3x12 =

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins: 5-7.

Rigid ceiling directly applied.

Plate Offsets (X,Y)	[2:0-1-12,0-0-2],	[3:0-5-4,0-2-14],	[5:0-2-0,Edge]

3x6 ||

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 0.86	Vert(LL) -0.19 10 >521	240 MT20 197/144	
TCDL 10.0	Lumber DOL 1.15	BC 0.41	Vert(CT) -0.33 10 >296	180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.23 9 n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 34 lb FT = 20%	

LUMBER-

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

5-7: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2

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

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

Max Horz 2=127(LC 12)

Max Uplift 2=-41(LC 12), 9=-70(LC 12) Max Grav 2=428(LC 1), 9=398(LC 1)

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

TOP CHORD 3-12=-758/267, 3-4=-427/146

BOT CHORD 3-9=-245/433 **WEBS** 4-9=-562/314

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; 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 7-9-10, Exterior(2E) 7-9-10 to 8-8-0 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

10 2x4 ||

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
- 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.



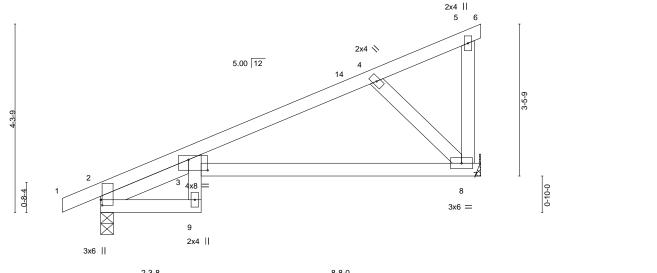
January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192366 2592374 D5 Monopitch 2 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:55 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-CrwH99Xb1Zk5YiSNcqZcS6b3F3l?xHhqEoGryly3QMA

6-3-8 8-8-0 4-0-0 2-4-8

Scale = 1:26.3



6-4-8

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

Plate Offsets (X,Y)-- [2:0-1-8,0-0-6], [3:0-5-4,0-2-14]

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	0.90	Vert(LL)	-0.21	` ģ	>469	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	ВС	0.45	Vert(CT)	-0.38	9	>267	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.26	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-AS	, ,					Weight: 32 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

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

Max Horz 2=143(LC 12)

Max Uplift 2=-36(LC 12), 8=-89(LC 12) Max Grav 2=441(LC 1), 8=386(LC 1)

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

-0-10-8 0-10-8

2-3-8

3-11=-791/314, 3-4=-408/117 TOP CHORD

BOT CHORD 3-8=-232/407 **WEBS** 4-8=-559/319

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; 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 8-8-0 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

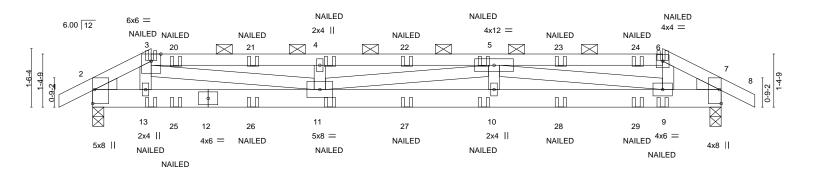


January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192367 2592374 D6 Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:57 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-8E22arYrZA_pn0cmkFb4XXgVEsNuP2n6h6ly0dy3QM8 0-10-8 16-4-0 10-5-3 14-9-12 1-6-4 4-4-9 4-6-5 4-4-9 1-6-4 0-10-8

Scale = 1:29.9



1-6 1-6		10-5-3 4-6-5	14-9-						
Plate Offsets (X,Y) [2:0-0-2,0-0-5], [2:0-0-5,0-5-4], [2:Edge,0-0-9], [7:0-0-2,0-0-5], [7:0-0-5,0-5-4], [7:Edge,0-0-9]									
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. DEFL. TC 0.49 Vert(LI BC 0.75 Vert(CI WB 0.64 Horz(CI Matrix-MS Horz(CI	r) -0.29 10-11 >678 180	PLATES GRIP MT20 197/144 Weight: 70 lb FT = 20%					

BOT CHORD

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 TOP CHORD

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

WEBS 2x4 SPF No.2 WEDGE

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

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

Max Horz 2=-17(LC 9)

Max Uplift 2=-102(LC 8), 7=-102(LC 9) Max Grav 2=789(LC 1), 7=789(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD $2\text{-}3\text{=-}1141/139,\ 3\text{-}4\text{=-}2572/360,\ 4\text{-}5\text{=-}2570/358,\ 5\text{-}6\text{=-}978/133,\ 6\text{-}7\text{=-}1099/132}$

BOT CHORD 2-13=-120/1045, 11-13=-129/1057, 10-11=-354/2665, 9-10=-354/2665, 7-9=-108/1009

WEBS 3-11=-229/1564, 4-11=-340/118, 5-9=-1736/257, 6-9=0/269

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=102, 7=102.
- 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, 3-6=-70, 6-8=-70, 14-17=-20

Concentrated Loads (lb)

Vert: 13=4(B) 11=1(B) 10=1(B) 9=4(B) 25=1(B) 26=1(B) 27=1(B) 28=1(B) 29=1(B)



Structural wood sheathing directly applied or 5-4-12 oc purlins,

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

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

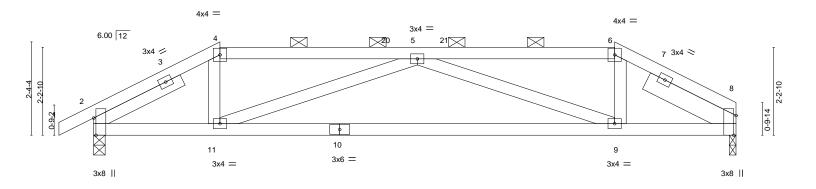
January 4,2021





Job Truss Truss Type Qty summit/hawthorn#25/mo 144192368 2592374 D7 Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:58 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-cQbQoBZTKU6gPAAyIy6J4lDiGGj38aTGwmUVY4y3QM7 -0-10-8 0-10-8 16-2-8 3-2-4 4-11-12 4-11-12 3-0-12

Scale = 1:29.1



		3-2-4	1			13-1-12	16-2-	8				
	'	3-2-4			9-11-8					3-0-1	2	
Plate Offsets (X,Y) [2:0-5-3,Edge], [8:0-5-15,Edge]												
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	0.34	Vert(LL)	-0.23	9-11	>837	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.49	9-11	>395	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	-AS						Weight: 62 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

LUMBER-

2x4 SPF No.2 TOP CHORD

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

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

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

Max Horz 2=38(LC 12)

Max Uplift 8=-68(LC 13), 2=-86(LC 12) Max Grav 8=728(LC 1), 2=792(LC 1)

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

2-4=-1159/134, 4-5=-988/139, 5-6=-973/159, 6-8=-1152/171 TOP CHORD

BOT CHORD 2-11=-71/1012. 9-11=-242/1551. 8-9=-92/999 **WEBS** 4-11=0/431, 5-11=-649/206, 5-9=-664/208, 6-9=0/459

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-2-4, Exterior(2R) 3-2-4 to 7-5-3, Interior(1) 7-5-3 to 13-1-12, Exterior(2E) 13-1-12 to 16-2-8 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) 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.



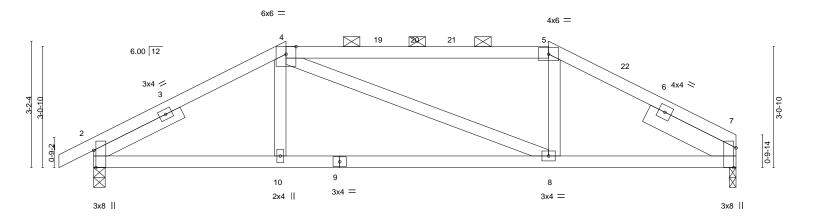
January 4,2021





Job Truss Truss Type Qty summit/hawthorn#25/mo 144192369 2592374 D8 Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:59 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-5c9o?Xa55oEX0Kl8rgdYcyloWg8ct5WP8QE25Wy3QM6 -0-10-8 0-10-8 11-5-12 4-10-4 6-7-8 4-8-12

Scale = 1:29.1



	4-10-4			1		11-5-12					16-2-8	
		4-10-4		1		6-7-8				1	4-8-12	1
Plate Offse	ets (X,Y)	[2:0-5-3,Edge], [7:0-5-15,Edge]	dge]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.07	8-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.16	8-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matrix	-AS						Weight: 61 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SPF No.2

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

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

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

Max Horz 2=52(LC 12)

Max Uplift 7=-66(LC 13), 2=-84(LC 12) Max Grav 7=728(LC 1), 2=792(LC 1)

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

2-4=-1006/188, 4-5=-927/202, 5-7=-1068/191 TOP CHORD BOT CHORD 2-10=-118/943, 8-10=-122/938, 7-8=-111/932

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-10-4, Exterior(2R) 4-10-4 to 9-1-3, Interior(1) 9-1-3 to 11-5-12, Exterior(2R) 11-5-12 to 15-7-2, Interior(1) 15-7-2 to 16-2-8 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) 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.

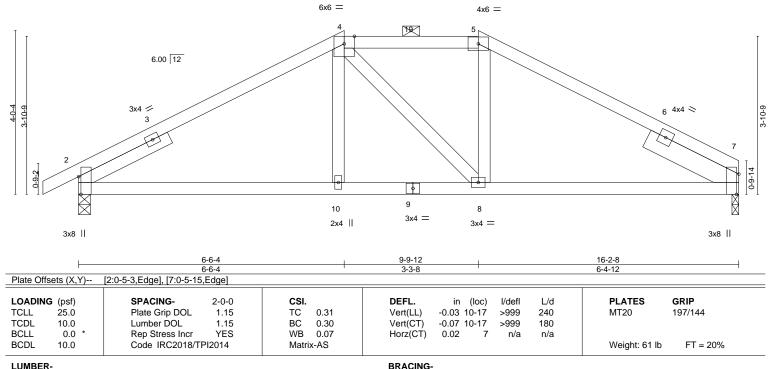


January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192370 2592374 D9 Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:00 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-ZpjACtakr5MOeUKLPN8n9Al3G4VXcYWZN4zcdyy3QM5 -0-10-8 0-10-8 9-9-12 16-2-8 6-6-4 3-3-8 6-4-12

Scale = 1:28.3



TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

LUMBER-

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

WEBS 2x4 SPF No.2

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

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

Max Horz 2=66(LC 12)

Max Uplift 7=-64(LC 13), 2=-82(LC 12) Max Grav 7=728(LC 1), 2=792(LC 1)

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

2-4=-912/231, 4-5=-810/254, 5-7=-904/232 TOP CHORD 2-10=-120/821, 8-10=-122/817, 7-8=-119/814 BOT CHORD

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2E) 2-1-8 to 16-2-8 zone; 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) 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.



January 4,2021

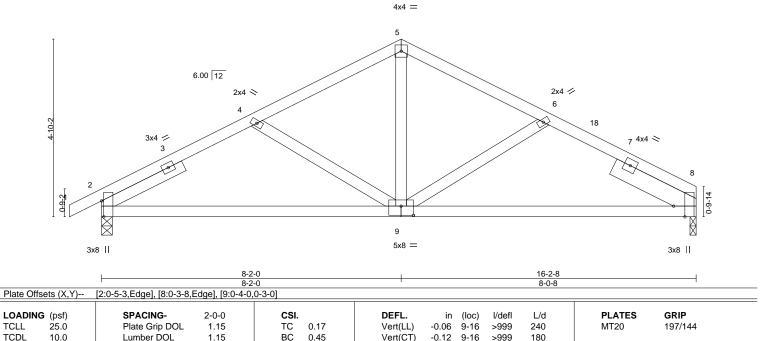


Job Truss Truss Type Qty summit/hawthorn#25/mo 144192371 2592374 D10 Common Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:17:52 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-oGE9X8UikeMXhFjoxi?vqUzkXrlRkwyNXr1BLQy3QMD -0-10-8 0-10-8 12-0-8 16-2-8 4-2-12 3-11-4 3-10-8 4-2-0

Scale = 1:31.4

FT = 20%

Weight: 63 lb



Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.02

8

n/a

Rigid ceiling directly applied.

n/a

Structural wood sheathing directly applied.

LUMBER-

BCLL

BCDL

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

0.0

10.0

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

Rep Stress Incr

Code IRC2018/TPI2014

REACTIONS. (size) 8=0-2-0, 2=0-3-8 Max Horz 2=80(LC 12)

Max Uplift 8=-60(LC 13), 2=-78(LC 12)

Max Grav 8=728(LC 1), 2=792(LC 1)

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

2-4=-1016/341, 4-5=-828/274, 5-6=-826/275, 6-8=-1003/346 TOP CHORD

BOT CHORD 2-9=-237/885, 8-9=-228/870

WEBS 4-9=-266/175, 5-9=-85/403, 6-9=-254/177

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; 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 8-2-0, Corner(3R) 8-2-0 to 11-2-0, Exterior(2N) 11-2-0 to 16-2-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-AS

0.11

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

YES

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 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.



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Job Truss Truss Type Qty summit/hawthorn#25/mo 144192372 2592374 E1 Roof Special Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:02 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-VBrxdZc_Njc6tnUjXoBFEbNHct7D4ITsrOSjhry3QM3 16-8-9 28-0-0 -0-10-8 0-10-8

6-5-3

6-3-7

Structural wood sheathing directly applied or 2-3-11 oc purlins,

4-14. 5-10

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

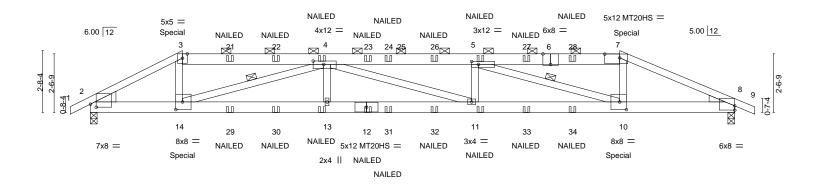
1 Row at midpt

Rigid ceiling directly applied or 4-9-14 oc bracing

Scale = 1:50.1

0-10-8

5-0-0



<u> </u>	4-0-0 4-0-0	10-3-7 6-3-7		16-8-9 6-5-3	-	3-0-0 i-3-7	28-0-0 5-0-0	
Plate Offsets (X,Y) [2:0-3-0,0-1-9], [4:0-5-8,0-1-12], [5:0-3-8,0-1-8], [6:					0-0-0,0-2	 		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING Plate Grip Lumber D Rep Stres Code IRC	DOL 1.15 OL 1.15	BC 0	DEFL. 0.83 Vert(LL) 0.55 Vert(CT) 0.74 Horz(CT) MS	in (0.59 11 -0.64 11 -0.10	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 131 lb	GRIP 197/144 148/108 FT = 20%

TOP CHORD

BOT CHORD

WEBS

LUMBER-BRACING-

6-3-7

2x4 SPF No.2 *Except* TOP CHORD

3-6,6-7: 2x6 SPF No.2

4-0-0

BOT CHORD 2x6 SPF 2100F 1.8E

WEBS 2x4 SPF No.2 WEDGE

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

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

Max Horz 2=-36(LC 30)

Max Uplift 2=-1701(LC 8), 8=-1593(LC 9)

Max Grav 2=2397(LC 38), 8=2297(LC 37)

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

TOP CHORD $2-3=-4353/3191,\ 3-4=-3754/2865,\ 4-5=-6481/4062,\ 5-7=-4446/3341,\ 7-8=-4967/3598$

BOT CHORD 2-14=-2812/3897, 13-14=-3802/6239, 11-13=-3802/6239, 10-11=-4000/6500,

8-10=-3279/4565

WFBS 3-14=-57/1573, 4-14=-3204/1065, 4-13=0/384, 4-11=-274/393, 5-11=0/323,

5-10=-2862/761, 7-10=-21/1537

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=1701, 8=1593,
- 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) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 239 lb down and 1370 lb up at 4-0-0, and 235 lb down and 1369 lb up at 23-0-0 on top chord, and 1316 lb down and 113 lb up at 4-0-0, and 1308 lb down and 106 lb up at 22-11-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



January 4,2021

COARIGASE(S)geStandard





Job	Truss	Truss Type	Qty	Ply	summit/hawthorn#25/mo	1
					144192372	
2592374	E1	Roof Special Girder	1	1		
					Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:02 2020 Page 2 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-VBrxdZc_Njc6tnUjXoBFEbNHct7D4lTsrOSjhry3QM3

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-70, 3-7=-70, 7-9=-70, 15-18=-20

Concentrated Loads (lb)

Vert: 3=-120(B) 12=-24(B) 14=-52(B) 4=-47(B) 13=-24(B) 11=-24(B) 5=-47(B) 10=-60(B) 7=-128(B) 21=-47(B) 22=-47(B) 23=-47(B) 24=-47(B) 26=-47(B) 27=-47(B) 28=-47(B) 29=-24(B) 30=-24(B) 31=-24(B) 32=-24(B) 33=-24(B) 34=-24(B)



Job Truss Truss Type Qty Ply summit/hawthorn#25/mo 144192373 2592374 E2 Roof Special Girder 2 Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:04 2020 Page 1

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

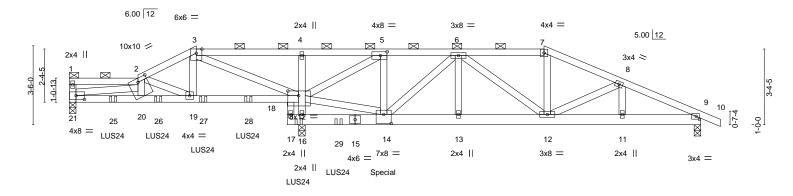
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 14-16.

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2, 3-7.

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-Razh2EeEvKsq75e6eDDjJ0TiVhlLYGI8lixpmjy3QM1 17-3-1 21-0-10 24-6-4 28-0-0 28-10-8 0-10-8 4-0-8 4-3-4 3-3-13 3-9-9 3-5-10 3-5-12

Scale = 1:51.1



	3-0-8 5-7-8 3-0-8 2-7-0	9-8-0 4-0-8	10-2 ₁ 0 13-1 0-6-0 3-9		21-0-10 3-9-9	24-6-4 3-5-10	28-0-0 3-5-12
Plate Offsets (X,Y)	[2:0-5-0,0-2-0], [5:0-3	-8,0-2-0], [9:0-1-11	,0-1-8], [14:0-4-0,0-4	-12], [18:0-5-12,0-2-8], [20:)-1-9,0-0-13], [21:0-	4-8,0-2-0]	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOI Lumber DOL Rep Stress Ind Code IRC201	1.15 cr NO	CSI. TC 0.49 BC 0.82 WB 0.40 Matrix-MS	Vert(LL) -0.0	n (loc) l/defl 7 18-19 >999 3 18-19 >925 2 9 n/a	240 MT2 180 n/a	ATES GRIP 20 197/144 ight: 262 lb FT = 20%

BOT CHORD

LUMBER-BRACING-TOP CHORD TOP CHORD

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

15-17: 2x6 SP 2400F 2.0E, 9-15: 2x6 SPF No.2

WEBS 2x4 SPF No.2

REACTIONS. (size) 9=0-3-8, 16=0-3-8, 21=0-3-8

Max Horz 21=-73(LC 9)

Max Uplift 9=-129(LC 9), 16=-685(LC 5), 21=-123(LC 8) Max Grav 9=1080(LC 22), 16=5661(LC 1), 21=1094(LC 21)

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

1-2=-314/30, 2-3=-1319/141, 3-4=-192/2175, 4-5=-182/2124, 5-6=-1765/325, TOP CHORD

6-7=-1615/241, 7-8=-1800/249, 8-9=-1901/214

BOT CHORD 20-21=-267/2569, 19-20=-270/2650, 18-19=-69/1041, 16-17=-67/592, 13-14=-245/1945, 12-13=-245/1945, 11-12=-154/1709, 9-11=-154/1709

WEBS 17-18=-1643/186, 2-20=-23/488, 2-19=-1571/201, 3-19=-153/1784, 5-14=-207/1894,

6-14=-510/204, 6-12=-518/150, 7-12=-26/422, 2-21=-2349/264, 16-18=-3597/481,

4-18=-372/123, 3-18=-3505/342, 14-18=-256/1744, 5-18=-4267/570

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 0-9-0 oc.

Bottom chords connected as follows: 2x4 - 1 row at 0-3-0 oc, 2x6 - 2 rows staggered at 0-3-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 16-4 2x4 - 1 row at 0-7-0 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=129, 16=685, 21=123,
- 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.

OdntiGreen breaking representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 4,2021





Job	Truss	Truss Type	Qty	Ply	summit/hawthorn#25/mo	
	=-					144192373
2592374	E2	Roof Special Girder	1	2	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:04 2020 Page 2 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-Razh2EeEvKsq75e6eDDjJ0TiVhlLYGl8lixpmjy3QM1

12) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-2-12 oc max. starting at 1-11-4 from the left end to 11-11-4 to connect truss(es) to front face of bottom chord.

- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2092 lb down and 332 lb up at 13-11-4 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: 1-2=-70, 2-3=-70, 3-7=-70, 7-10=-70, 18-21=-20, 17-22=-20

Concentrated Loads (lb)

Vert: 18=-524(F) 14=-2092(F) 25=-528(F) 26=-528(F) 27=-518(F) 28=-518(F) 29=-520(F)

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty summit/hawthorn#25/mo 144192374 2592374 E3 Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:05 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-vmW3Gaesge_hkFDlCwkysD?wJ5AEHiklXMhNIAy3QM0 9-5-10 4-11-6 4-6-4 4-6-6 0-10-8 Scale = 1:26.8 6x6 = 3x4 || **\1**1 5.00 12 13 2x4 / 3 1-2-1363x4 =3x6 3x8 || 4-11-6 9-0-10 Plate Offsets (X,Y)--[4:0-0-0,0-0-1], [4:0-0-1,0-5-11], [4:0-3-8,Edge] SPACING-LOADING (psf) CSI. DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.29 Vert(LL) -0.10 6-10 >999 240 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.46 Vert(CT) -0.206-10 >838 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.45 Horz(CT) 0.01 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-AS Weight: 55 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Right: 2x4 SPF No.2

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

Max Horz 7=-157(LC 10)

Max Uplift 4=-81(LC 13), 7=-73(LC 8) Max Grav 4=687(LC 1), 7=622(LC 1)

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

TOP CHORD 2-3=-648/161, 3-4=-1004/248 **BOT CHORD** 6-7=-4/533, 4-6=-146/889

WEBS 2-7=-665/202, 2-6=0/376, 3-6=-380/184

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-11-6, Exterior(2R) 4-11-6 to 7-11-6 Interior(1) 7-11-6 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
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 7.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

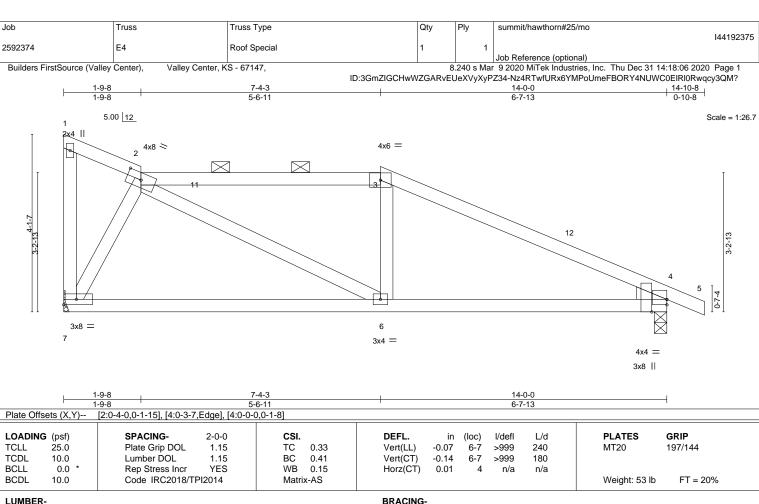
2-0-0 oc purlins (6-0-0 max.): 1-2.

Rigid ceiling directly applied.

January 4,2021







TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Right: 2x4 SPF No.2

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

Max Horz 7=-150(LC 10)

Max Uplift 4=-96(LC 13), 7=-97(LC 13) Max Grav 4=687(LC 1), 7=622(LC 1)

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

TOP CHORD 2-3=-813/180, 3-4=-948/158 **BOT CHORD** 6-7=0/324, 4-6=-52/808 **WEBS** 2-7=-647/182, 2-6=-146/552

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 1-9-8, Interior(1) 1-9-8 to 7-4-3, Exterior(2R) 7-4-3 to 11-7-2, Interior(1) 11-7-2 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
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 7.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) 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

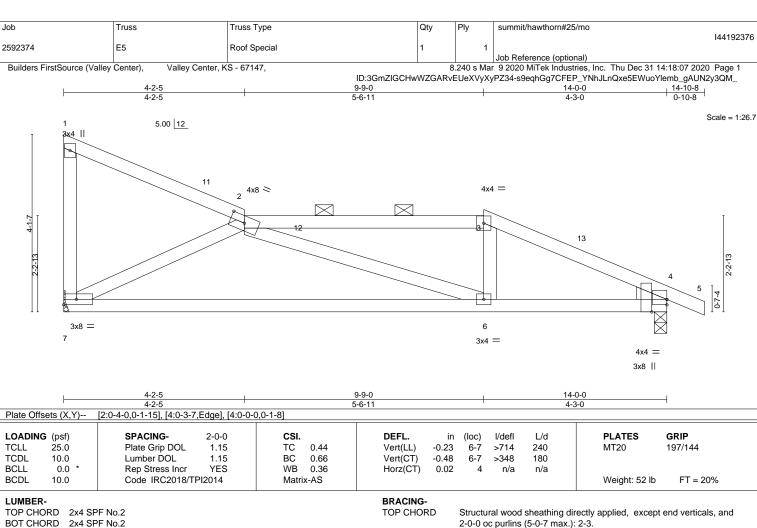
2-0-0 oc purlins (5-11-14 max.): 2-3.

Rigid ceiling directly applied.

January 4,2021







BOT CHORD

Rigid ceiling directly applied.

LUMBER-

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

WEDGE

Right: 2x4 SPF No.2

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

Max Horz 7=-150(LC 10)

Max Uplift 4=-96(LC 13), 7=-97(LC 13) Max Grav 4=687(LC 1), 7=622(LC 1)

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

TOP CHORD 2-3=-1005/177, 3-4=-1141/159 **BOT CHORD** 6-7=-139/889, 4-6=-81/1013 **WEBS** 2-7=-946/260, 2-6=-30/257, 3-6=0/255

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-9-0, Exterior(2R) 9-9-0 to 14-0-0, Interior(1) 14-0-0 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
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 7.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) 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.





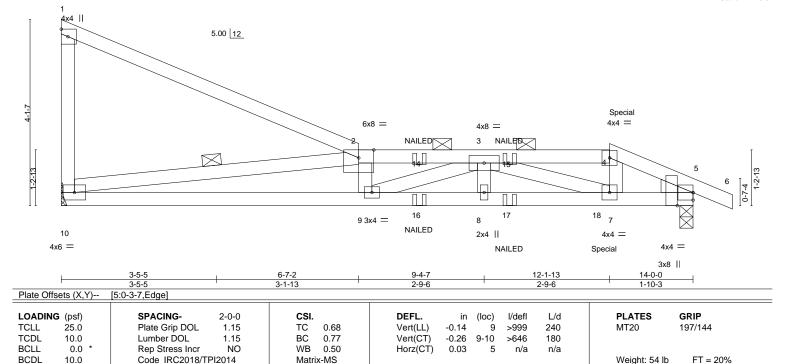




Job Truss Truss Type Qty summit/hawthorn#25/mo 144192377 2592374 E6 Roof Special Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:08 2020 Page 1

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-KLCCuchlzZNFbixtt3IfUsdLWI68U3okDKw1uVy3QLz 14-10-8 12-1-13 3-1-13 2-9-6 2-9-6 1-10-3 0-10-8

Scale = 1:25.5



BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

Right: 2x4 SPF No.2

REACTIONS. (size) 10=Mechanical, 5=0-3-8

Max Horz 10=-150(LC 6)

Max Uplift 10=-97(LC 9), 5=-96(LC 9) Max Grav 10=617(LC 1), 5=674(LC 1)

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

TOP CHORD 2-3=-2177/240, 3-4=-900/126, 4-5=-1021/127

BOT CHORD 9-10=-215/2176, 8-9=-215/1934, 7-8=-215/1934, 5-7=-89/935 2-10=-2152/312, 3-9=-77/257, 3-7=-1088/131, 4-7=0/250 **WEBS**

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 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) 57 lb down and 39 lb up at 12-1-13 on top chord, and 3 lb down and 4 lb up at 11-11-4, and 6 lb down and 6 lb up at 12-1-13 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: 1-2=-70, 2-4=-70, 4-6=-70, 10-11=-20



Structural wood sheathing directly applied or 5-8-7 oc purlins,

except end verticals, and 2-0-0 oc purlins (3-10-7 max.): 2-4.

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

1 Row at midpt

January 4,2021







Job	Truss	Truss Type	Qty	Ply	summit/hawthorn#25/mo
					144192377
2592374	E6	Roof Special Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:08 2020 Page 2 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-KLCCuchlzZNFbixtt3lfUsdLWI68U3okDKw1uVy3QLz

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 16=4(F) 17=4(F) 18=9(F)

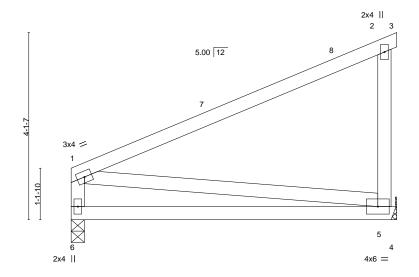


Job Truss Truss Type Qty Ply summit/hawthorn#25/mo 144192378 2592374 E7 Jack-Partial Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:09 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-oYma5yhNksV6DsW3Rmpu03AVwiXbDcmuS_faQxy3QLy

3-7-0 3-7-0

7-2-0 3-7-0

Scale = 1:25.4



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	0.76	Vert(LL)	-0.12	5-6	>653	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.	.15	BC	0.50	Vert(CT)	-0.25	5-6	>327	180		
BCLL	0.0 *	Rep Stress Incr YI	ES	WB	0.07	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI201	4	Matri	x-AS						Weight: 29 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 6=0-3-8, 5=Mechanical (size) Max Horz 6=90(LC 12)

Max Uplift 6=-9(LC 12), 5=-66(LC 12) Max Grav 6=304(LC 1), 5=315(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-2-0 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 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.
- 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.



Structural wood sheathing directly applied, except end verticals.

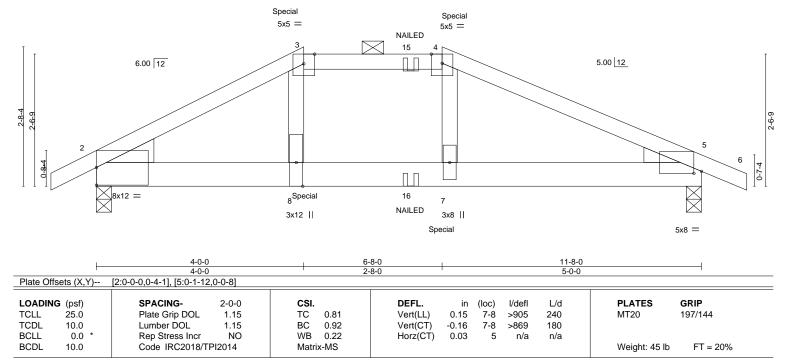
Rigid ceiling directly applied.

January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192379 2592374 E8 Roof Special Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:10 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-GkKyJli?VAdzr05G?UK7ZHjfv6mJy1a1geP8yNy3QLx -0-10-8 0-10-8 4-0-0 2-8-0 5-0-0 0-10-8

Scale = 1:22.2



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

WEDGE

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

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

Max Horz 2=-38(LC 9)

Max Uplift 2=-1578(LC 8), 5=-1343(LC 9) Max Grav 2=1805(LC 27), 5=1512(LC 33)

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

TOP CHORD 2-3=-3366/3033, 3-4=-2916/2727, 4-5=-3260/2910 **BOT CHORD** 2-8=-2662/3032, 7-8=-2666/2951, 5-7=-2652/3020

WEBS 3-8=0/1264, 4-7=0/1068

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1578, 5=1343
- 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) 229 lb down and 1370 lb up at 4-0-0, and 183 lb down and 1313 lb up at 6-8-0 on top chord, and 1316 lb down and 113 lb up at 4-0-0, and 1286 lb down and 107 lb up at 6-8-0 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



Structural wood sheathing directly applied or 2-11-1 oc purlins,

Rigid ceiling directly applied or 3-11-15 oc bracing.

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

January 4,2021







Job Truss Truss Type Qty Ply summit/hawthorn#25/mo 144192379 2592374 E8 Roof Special Girder

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:10 2020 Page 2 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-GkKyJli?VAdzr05G?UK7ZHjfv6mJy1a1geP8yNy3QLx

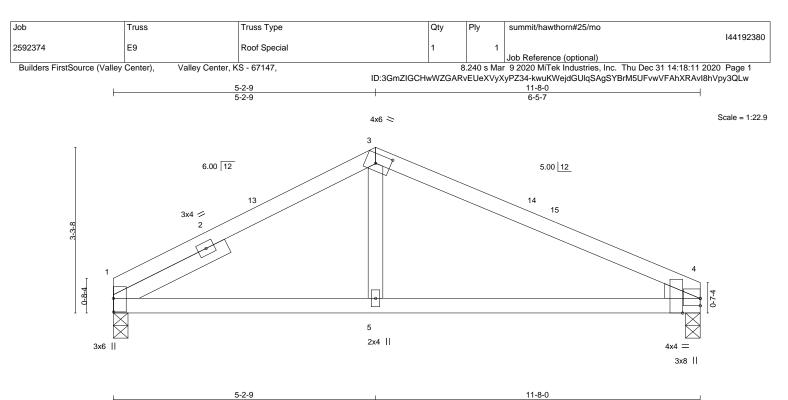
LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-3=-70, 3-4=-70, 4-6=-70, 9-12=-20

Concentrated Loads (lb)

Vert: 3=-120(F) 4=-82(F) 8=-52(F) 7=-41(F) 15=-47(F) 16=-24(F)





			5-2-9					6-5-7				
Plate Offs	ets (X,Y)	[1:0-3-4,0-0-1], [3:0-3-8,0)-2-4], [4:0-0-0),0-1-12], [4:0-3-	7,Edge]							
LOADING	\(\frac{1}{2}\)	SPACING-	2-0-0	CSI.		DEFL.	in	(/	l/defl	L/d	PLATES	GRIP
TCLL TCDL	25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15		41 36	Vert(LL) Vert(CT)	-0.06 -0.10		>999 >999	240 180	MT20	197/144
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2018/TI	YES PI2014	WB 0. Matrix-A	06 S	Horz(CT)	-0.01	4	n/a	n/a	Weight: 35 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEDGE

Right: 2x4 SPF No.2

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

REACTIONS.

(size) 1=0-3-8, 4=0-3-8 Max Horz 1=-44(LC 13)

Max Uplift 1=-40(LC 12), 4=-49(LC 13)

Max Grav 1=525(LC 1), 4=525(LC 1)

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

TOP CHORD 1-3=-659/229, 3-4=-711/224 **BOT CHORD** 1-5=-126/589, 4-5=-126/589

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-2-9, Exterior(2R) 5-2-9 to 8-2-9, Interior(1) 8-2-9 to 11-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.

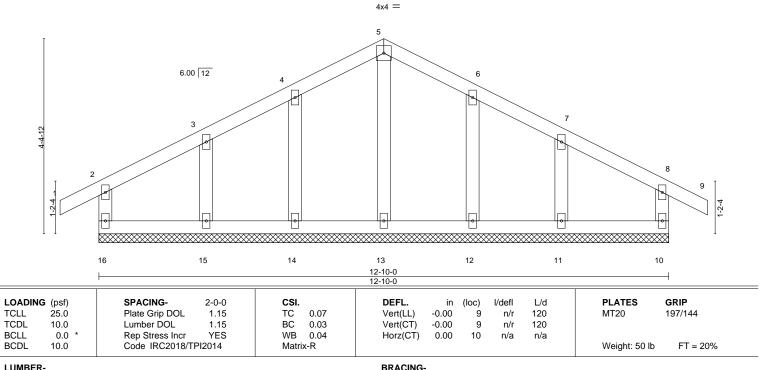


January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192381 2592374 G1 **GABLE** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:12 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-C6SjkzkF1nth4KFe6uMbeio9_vfaQ_zK8yuF1Gy3QLv 12-10-0 13-8-8 6-5-0 0-10-8 6-5-0 0-10-8

Scale = 1:25.9



TOP CHORD 2x4 SPF No 2

BOT CHORD 2x4 SPF No.2

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

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

except end verticals.

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

REACTIONS. All bearings 12-10-0.

Max Horz 16=-75(LC 10) (lb) -

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

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-5-0, Exterior(2N) 2-5-0 to 6-5-0, Corner(3R) 6-5-0 to 9-5-0, Exterior(2N) 9-5-0 to 13-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12. 11.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192382 2592374 G2 Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:14 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-8VZT9flWYP7PJdP1EJP3j7tUOjHaurwdbGNL68y3QLt 13-8-8

3-1-8

3-1-8

Scale = 1:29.0

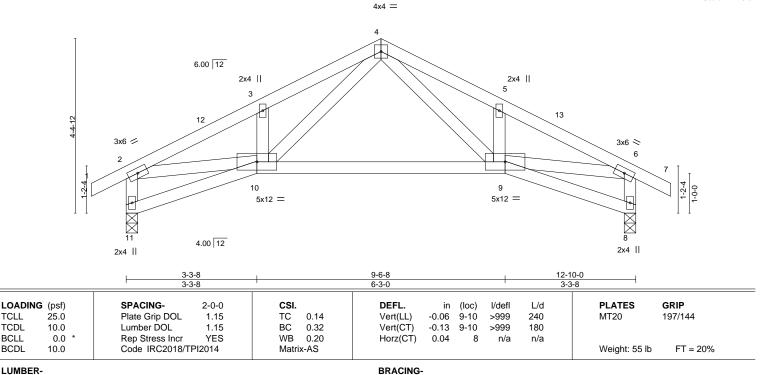
0-10-8

12-10-0

3-3-8

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.



TOP CHORD

BOT CHORD

LUMBER-TOP CHORD BOT CHORD

TCLL

TCDL

BCLL

BCDL

WEBS

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

-0-10-8 0-10-8

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

Max Horz 11=-76(LC 10) Max Uplift 11=-65(LC 12), 8=-65(LC 13) Max Grav 11=636(LC 1), 8=636(LC 1)

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

TOP CHORD 2-3=-1037/250, 3-4=-1041/350, 4-5=-1041/314, 5-6=-1037/230, 2-11=-629/195,

6-8=-629/212 9-10=-85/558

WFBS 4-9=-133/485, 4-10=-157/485, 2-10=-129/814, 6-9=-123/814

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-5-0, Exterior(2R) 6-5-0 to 9-4-12, Interior(1) 9-4-12 to 13-8-8 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 11, 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) 11, 8.
- 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.



January 4,2021





Job Truss Truss Type Qty summit/hawthorn#25/mo 144192383 2592374 G3 Roof Special 2 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:14 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-8VZT9flWYP7PJdP1EJP3j7tUPjHcurFdbGNL68y3QLt -0-10-8 0-10-8 9-6-8 12-6-8 3-3-8 3-1-8 3-1-8 3-0-0 Scale = 1:28.7 4x4 = 4 6.00 12 2x4 || 4x6 < 5 2x4 3x6 / 6 5x12 = 5x12 = 10 3x4 = 4.00 12 2x4 || 12-6-8 9-6-8

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-TOP CHORD

BOT CHORD

I/defI

>999

>999

n/a

Rigid ceiling directly applied.

(loc)

8-9

8-9

-0.06

-0.13

0.04

L/d

240

180

n/a

PLATES

Weight: 54 lb

MT20

Structural wood sheathing directly applied, except end verticals.

GRIP

197/144

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

25.0

10.0

0.0

10.0

REACTIONS.

10=0-3-8, 7=Mechanical (size)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Horz 10=81(LC 9)

Max Uplift 10=-65(LC 12), 7=-44(LC 13) Max Grav 10=626(LC 1), 7=548(LC 1)

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

2-3=-1015/279, 3-4=-1018/379, 4-5=-957/326, 2-10=-619/203 TOP CHORD

BOT CHORD 8-9=-134/537, 7-8=-216/871

WEBS 4-9=-177/485, 4-8=-120/417, 5-7=-978/217, 2-9=-154/794

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-5-0, Exterior(2R) 6-5-0 to 9-6-6, Interior(1) 9-6-6 to 12-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

TC

ВС

WB

Matrix-AS

0.14

0.32

0.24

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

2-0-0

1.15

1.15

YES

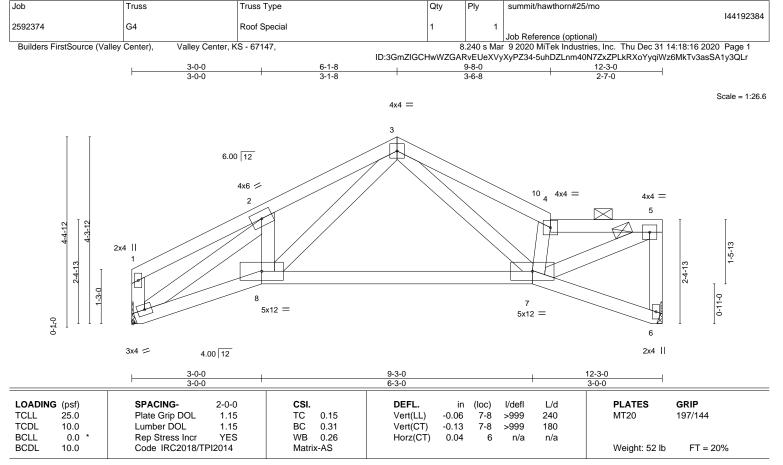
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections
- 6) Bearing at joint(s) 10 considers parallel to grain 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) 10, 7.
- 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.



January 4,2021







LUMBER-TOP CHORD **BOT CHORD**

WEBS

2x4 SPF No 2 2x4 SPF No.2

2x4 SPF No.2

BRACING-

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

2-0-0 oc purlins (5-10-1 max.): 4-5. BOT CHORD Rigid ceiling directly applied.

REACTIONS.

6=Mechanical, 9=Mechanical (size) Max Horz 9=97(LC 9) Max Uplift 6=-50(LC 13), 9=-43(LC 12) Max Grav 6=538(LC 1), 9=538(LC 1)

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

2-3=-933/377, 3-4=-945/286, 4-5=-1001/281, 5-6=-522/168 TOP CHORD

BOT CHORD 8-9=-356/850, 7-8=-213/521

WEBS 3-8=-177/418, 3-7=-85/407, 4-7=-617/238, 5-7=-319/1062, 2-9=-953/243

NOTES-

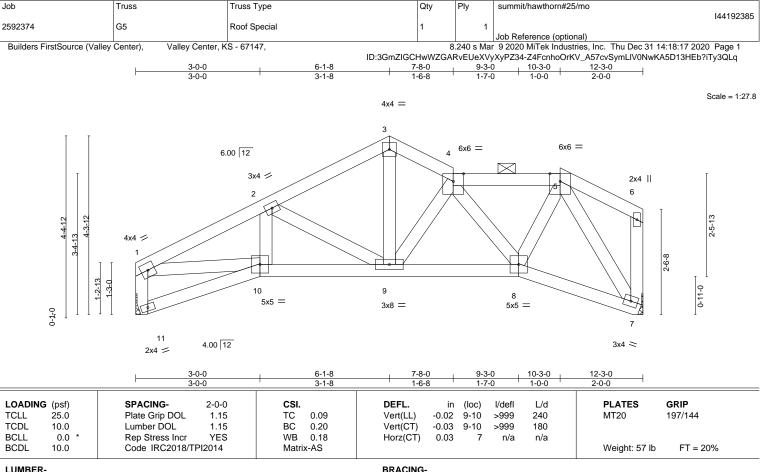
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-0-2, Interior(1) 3-0-2 to 6-1-8, Exterior(2R) 6-1-8 to 9-1-8, Interior(1) 9-1-8 to 12-1-4 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) 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) 6, 9.
- 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.



January 4,2021







TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

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

(size)

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

REACTIONS. 7=Mechanical, 11=Mechanical Max Horz 11=104(LC 9) Max Uplift 7=-52(LC 13), 11=-43(LC 12)

Max Grav 7=538(LC 1), 11=538(LC 1) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-2=-918/323, 2-3=-650/239, 3-4=-631/260, 4-5=-505/196, 1-11=-519/188 TOP CHORD

BOT CHORD 9-10=-370/776, 8-9=-276/666, 7-8=-162/355

WEBS 5-8=-123/425, 5-7=-633/250, 4-8=-280/128, 3-9=-130/389, 2-9=-281/173, 1-10=-221/719

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 6-1-8, Exterior(2E) 6-1-8 to 7-8-0, Interior(1) 7-8-0 to 10-3-0, Exterior(2E) 10-3-0 to 12-1-4 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) 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) 7, 11.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

January 4,2021





Job Truss Truss Type Qty summit/hawthorn#25/mo 144192386 2592374 G6 Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:18 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-1Gp__1o0cddroFioT9T?tz2A1KgGqdtCWtLZFvy3QLp 6-7-0 8-3-0 3-0-0 3-0-0 1-8-0 4-0-0 Scale: 3/8"=1 6x6 = 6x6 = 6.00 12 2x4 || 3x6 > 4x6 / 5-5-10 7x8 ⁴4₄8 = 13 12 5-6-0 0-17-0 5x5 = 4x4 = 4.00 12 8 7 6 2x4 || 3x8 = 2x4 II 3-0-0 12-3-0 3-0-0 2-9-8 Plate Offsets (X,Y)--[10:0-5-8,0-6-0], [11:0-2-8,0-2-0] SPACING-(loc) **PLATES** GRIP LOADING (psf) CSI. DEFL. in I/def L/d TCLL 25.0 Plate Grip DOL 1.15 TC 0.16 Vert(LL) -0.04 12 >999 240 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.21 Vert(CT) -0.07 12 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.33 Horz(CT) 0.07 6 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 71 lb Matrix-AS BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

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

BOT CHORD WEBS 2x4 SPF No.2 REACTIONS. (size) 14=Mechanical, 6=Mechanical

Max Horz 14=132(LC 11) Max Uplift 14=-46(LC 12), 6=-36(LC 13)

Max Grav 14=546(LC 1), 6=544(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-1251/414, 2-3=-1267/503, 3-4=-703/283, 4-5=-368/146, 1-14=-523/173,

5-6=-506/158 10-11=-279/720

WEBS 4-7=-681/298, 5-7=-83/350, 3-11=-255/503, 1-11=-312/1004, 7-10=-221/585,

4-10=-284/740

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 6-7-0, Exterior(2E) 6-7-0 to 12-1-4 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) 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) 14, 6.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

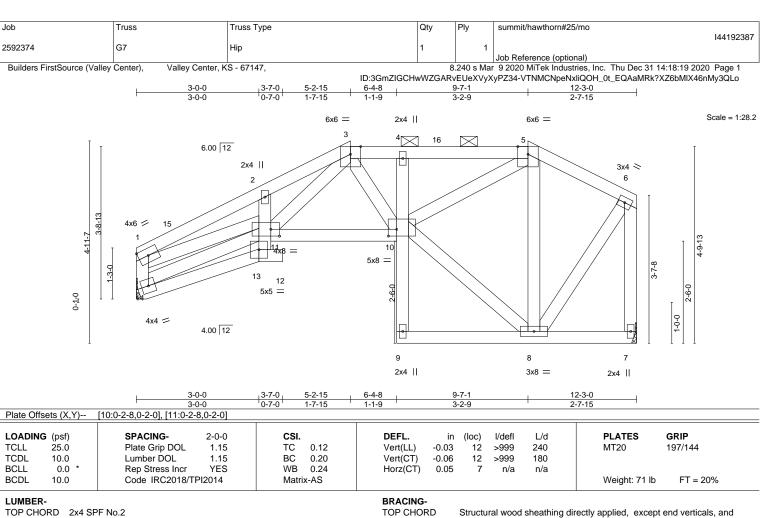
Rigid ceiling directly applied.

January 4,2021









BOT CHORD

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

Rigid ceiling directly applied.

2x4 SPF No.2

2x4 SPF No.2 (size) 14=Mechanical, 7=Mechanical

Max Horz 14=125(LC 11) Max Uplift 14=-51(LC 12), 7=-42(LC 13) Max Grav 14=542(LC 1), 7=540(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-1220/443, 2-3=-1205/517, 3-4=-808/312, 4-5=-801/315, 5-6=-295/140, TOP CHORD

1-14=-523/202, 6-7=-517/158

BOT CHORD 10-11=-331/762

WEBS 8-10=-134/301, 5-10=-263/662, 5-8=-455/226, 6-8=-113/397, 3-11=-245/454,

1-11=-319/964

NOTES-

BOT CHORD

REACTIONS.

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 5-2-15, Exterior(2E) 5-2-15 to 12-1-4 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) 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) 14, 7.
- 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.



January 4,2021





Job Truss Truss Type Qty summit/hawthorn#25/mo 144192388 2592374 G8 Roof Special Girder Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:20 2020 Page 1

Structural wood sheathing directly applied or 5-0-7 oc purlins,

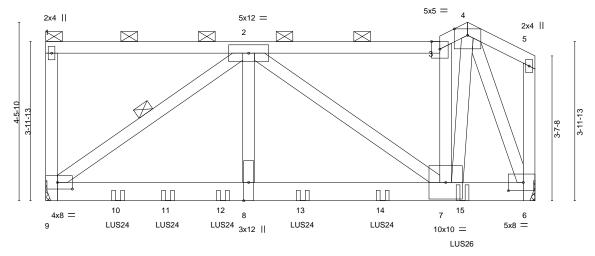
except end verticals, and 2-0-0 oc purlins (5-0-8 max.): 1-3.

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

1 Row at midpt

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-zfwkPiqH8FtY2YsBaaVTzO7TO8HSISqVzBqgJoy3QLn 10-6-12 9-10-7 12-3-0 5-0-15 4-9-7 0-8-5 1-8-4

> 6.00 12 Scale = 1:28.8 6x8 =



9-10-7 12-3-0

BRACING-

TOP CHORD

BOT CHORD

WEBS

Plate Off	sets (X,Y)	[6:0-4-8,0-2-8], [9:0-4-8,0	0-2-0]									
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	0.36	Vert(LL)	-0.06	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.11	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-MS						Weight: 73 lb	FT = 20%

LUMBER-

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x6 SPF 2100F 1.8E WEBS 2x4 SPF No.2

REACTIONS. (size) 9=Mechanical, 6=Mechanical

Max Horz 9=-129(LC 4)

Max Uplift 9=-381(LC 4), 6=-312(LC 8) Max Grav 9=1920(LC 1), 6=2112(LC 1)

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

TOP CHORD 2-3=-1184/215, 3-4=-1308/247

BOT CHORD 8-9=-346/2050, 7-8=-346/2050, 6-7=-135/804

WFBS 2-9=-2493/474, 2-8=-257/1703, 2-7=-1084/201, 3-7=-749/178, 4-7=-432/2611,

4-6=-2216/321

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) 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)
- 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 1-3-0 oc max. starting at 1-9-12 from the left end to 3-0-12 to connect truss(es) to front face of bottom chord.
- 11) Use Simpson Strong-Tie LUS24 (4-SD9112 Girder, 2-SD9212 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 4-5-4 from the left end to 8-5-4 to connect truss(es) to front face of bottom chord.
- 12) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 10-5-4 from the left end to connect truss(es) to front face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2

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

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

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





January 4,2021

Job	Truss	Truss Type	Qty	Ply	summit/hawthorn#25/mo
	_				144192388
2592374	G8	Roof Special Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:20 2020 Page 2 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-zfwkPiqH8FtY2YsBaaVTzO7TO8HSISqVzBqgJoy3QLn

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, 4-5=-70, 6-9=-20

Concentrated Loads (lb)

Vert: 10=-259(F) 11=-295(F) 12=-597(F) 13=-602(F) 14=-602(F) 15=-602(F)



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192389 2592374 J1 Jack-Open 18 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:21 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-RrU6d2rvvY?PfiRN8H1iVbghqXiz12mfCrZDrEy3QLm 0-10-8 4-0-0 Scale = 1:16.8 6.00 12 2

		<u> </u>	4-0-0	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) -0.01 4-5 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT) -0.02 4-5 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	, ,	Weight: 11 lb FT = 20%

4-0-0

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

BOT CHORD WEBS 2x4 SPF No.2

> (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=79(LC 12)

> Max Uplift 5=-19(LC 12), 3=-59(LC 12) Max Grav 5=252(LC 1), 3=117(LC 1), 4=71(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192390 2592374 J2 Jack-Open 15 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:29 2020 Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

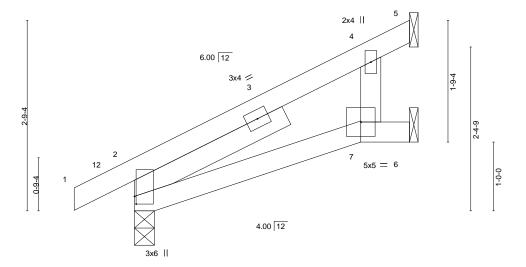
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-COz8Inxw000Hdx2vczAaqH?1QmRyvgUq25Ve7ny3QLe

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

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

Scale = 1:16.8



4-0-0

BRACING-

TOP CHORD

BOT CHORD

Plate Offs	sets (X,Y)	[2:0-1-5,0-0-5]			
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 0.22	Vert(LL) 0.02 7-10 >999 240 MT20 197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.02 7-10 >999 180	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.01 2 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS	Weight: 15 lb FT = 20%	

LUMBER-

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

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

REACTIONS. (size) 5=Mechanical, 2=0-3-8, 6=Mechanical

Max Horz 2=86(LC 12)

Max Uplift 5=-56(LC 12), 2=-14(LC 12)

Max Grav 5=164(LC 1), 2=245(LC 1), 6=13(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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 2 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) 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) 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.



January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192391 2592374 J3 Jack-Open 2 Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:29 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-COz8lnxw000Hdx2vczAaqH?38mSfvglq25Ve7ny3QLe

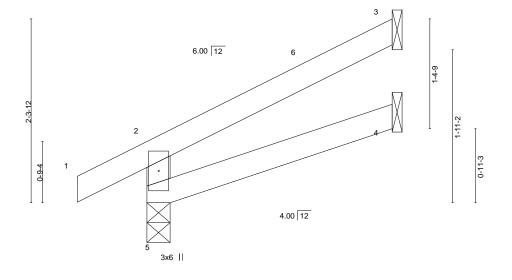
Structural wood sheathing directly applied or 3-1-0 oc purlins,

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

except end verticals.

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

Scale = 1:14.5



LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	0.01	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-MR						Weight: 9 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=61(LC 12) Max Uplift 5=-17(LC 12), 3=-46(LC 12)

Max Grav 5=214(LC 1), 3=86(LC 1), 4=54(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-0-4 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 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) 5, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 4,2021





Job Truss Truss Type Qty summit/hawthorn#25/mo 144192392 2592374 J4 Jack-Open Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:30 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-gaXWV7yYnJ88E5d6AghpNVYERApve7?zHlFBgDy3QLd

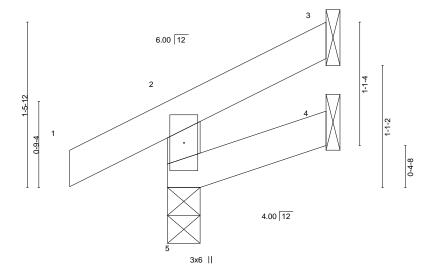
Structural wood sheathing directly applied or 1-5-0 oc purlins,

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

except end verticals.

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

Scale = 1:10.3



LOADIN	· · ·		0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0		.15	TC	0.07	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 YI	ES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI201	14	Matri	x-MR						Weight: 5 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=34(LC 9)

Max Uplift 5=-17(LC 12), 3=-19(LC 12) Max Grav 5=157(LC 1), 3=22(LC 1), 4=22(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 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) 5, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192393 2592374 J5 Jack-Open 2 Job Reference (optional)

Builders FirstSource (Valley Center),

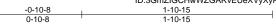
Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:31 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-9m5ujTzAYdG?sECljOC2vi4PBZ8zNaF7VP_ICfy3QLc

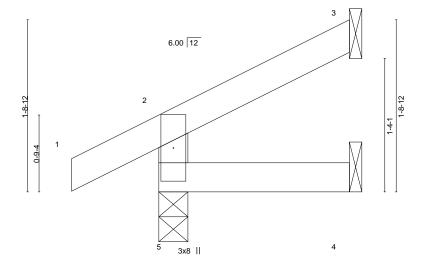
Structural wood sheathing directly applied or 1-10-15 oc purlins,

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

except end verticals.



Scale = 1:11.6



1-10-15 1-10-15

BRACING-

TOP CHORD

BOT CHORD

LOADIN TCLL	G (psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.07	DEFL. in Vert(LL) -0.00	(loc)	l/defl >999	L/d 240	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) -0.00	5	>999	180	WITZO	191/144
BCLL BCDL	0.0 * 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-MR	Horz(CT) -0.00	3	n/a	n/a	Weight: 6 lb	FT = 20%

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=41(LC 12)

> Max Uplift 5=-17(LC 12), 3=-28(LC 12) Max Grav 5=171(LC 1), 3=44(LC 1), 4=32(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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 4,2021

Job Truss Truss Type Qty summit/hawthorn#25/mo 144192394 2592374 J6 Jack-Open Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:32 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-dzfHwpzoJxOrUOnUH5jHSwdawzUI61VGk3klk6y3QLb 2-6-0 0-10-8 2-6-0

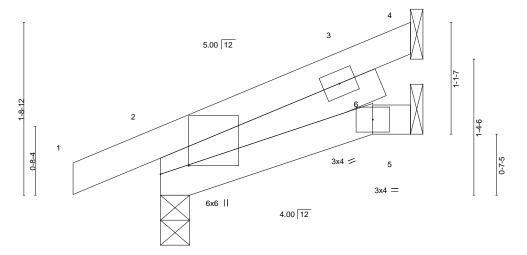


Plate Offsets (X Y)-- [2:0-1-0 0-3-6]

LOADIN	l 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	0.07	Vert(LL)	-0.00	6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-MP						Weight: 10 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 2-4-11

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

Max Horz 2=49(LC 12)

Max Uplift 4=-31(LC 12), 2=-19(LC 12) Max Grav 4=96(LC 1), 2=182(LC 1), 5=6(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 1-10-4, Interior(1) 1-10-4 to 2-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 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.



Structural wood sheathing directly applied or 2-6-0 oc purlins.

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

Scale = 1:11.5

January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192395 2592374 J7 Jack-Open 2 Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:32 2020 Page 1

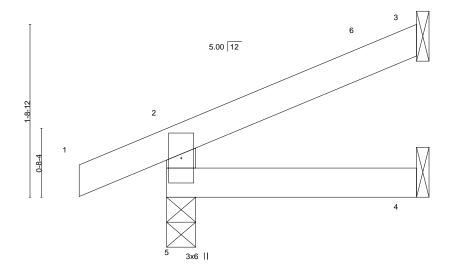
Structural wood sheathing directly applied or 2-6-0 oc purlins,

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

except end verticals.

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-dzfHwpzoJxOrUOnUH5jHSwdayzU761VGk3klk6y3QLb 2-6-0 2-6-0 0-10-8

Scale = 1:11.5



2-6-0

BRACING-

TOP CHORD

BOT CHORD

LOADIN	G (psf)	SPACING- 2-0-	0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.1	5	TC	0.07	Vert(LL)	-0.00	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.1	5	BC	0.04	Vert(CT)	-0.00	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr YE	S	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matri	x-MR						Weight: 7 lb	FT = 20%

LUMBER-TOP CHORD

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

BOT CHORD WEBS 2x4 SPF No.2

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=43(LC 12)

Max Uplift 5=-25(LC 8), 3=-32(LC 12) Max Grav 5=191(LC 1), 3=65(LC 1), 4=42(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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-5-4 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192396 2592374 J8 Jack-Open 2

Builders FirstSource (Valley Center),

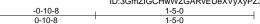
Valley Center, KS - 67147,

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:33 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-59Df89_Q4EWi5YMgrpEW_7AlhNqerUkQzjTsGYy3QLa

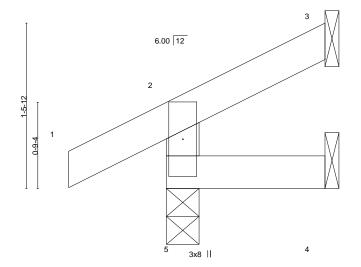
Structural wood sheathing directly applied or 1-5-0 oc purlins,

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

except end verticals.



Scale = 1:10.3



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	0.07	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/TF	PI2014	Matri	x-MR						Weight: 5 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=33(LC 9) Max Uplift 5=-18(LC 12), 3=-19(LC 12) Max Grav 5=157(LC 1), 3=22(LC 1), 4=22(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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192397 2592374 J9 Jack-Open Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:34 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-ZLn1LV?3rYeZjixtPWmIXLiwtn9uax_ZCNDPp_y3QLZ

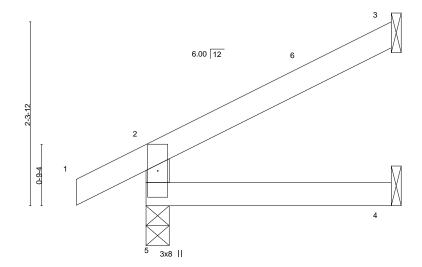
Structural wood sheathing directly applied or 3-1-0 oc purlins,

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

except end verticals.

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

Scale = 1:14.5



BRACING-

TOP CHORD

BOT CHORD

LOADIN TCLL	G (psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.11	DEFL. in (loc) I/defl L/d Vert(LL) -0.00 4-5 >999 240	PLATES GRIP MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) -0.01 4-5 >999 180	26
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01 3 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MR		Weight: 9 lb FT = 20%

LUMBER-

REACTIONS.

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

BOT CHORD WEBS 2x4 SPF No.2

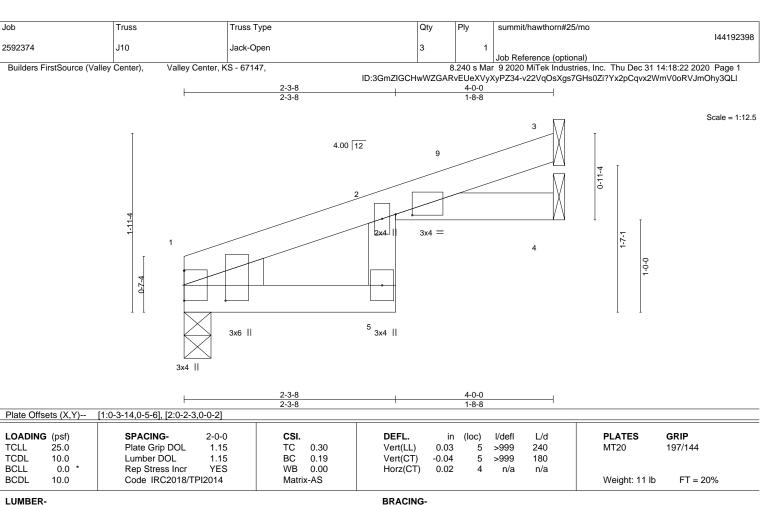
> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=62(LC 12) Max Uplift 5=-18(LC 12), 3=-45(LC 12) Max Grav 5=214(LC 1), 3=86(LC 1), 4=54(LC 3)

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-0-4 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

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

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 1=48(LC 8)

Max Uplift 3=-32(LC 8), 4=-5(LC 8), 1=-13(LC 8) Max Grav 3=105(LC 1), 4=72(LC 1), 1=177(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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4, 1.
- 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.



January 4,2021



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

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

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



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192399 2592374 J11 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:23 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-OEct1ks9RAG7v0blFi3Aa0l3JLQgVyGxg92Kw7y3QLk 2-7-13 2-7-13 0-10-8 Scale = 1:10.3 4.00 12 1-5-14 0-7-4 3x6 || 3x6 || 2-7-13 Plate Offsets (X,Y)--[2:0-3-14,0-5-6] SPACING-(loc) L/d **PLATES** GRIP LOADING (psf) CSI. DEFL. in I/defI 240 TCLL 25.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) -0.00 >999 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.06 Vert(CT) -0.00 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 2 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MP Weight: 8 lb BRACING-LUMBER-TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 2-7-13 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

BOT CHORD 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=46(LC 8)

Max Uplift 3=-25(LC 12), 2=-44(LC 8)

Max Grav 3=69(LC 1), 4=45(LC 3), 2=188(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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-7-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

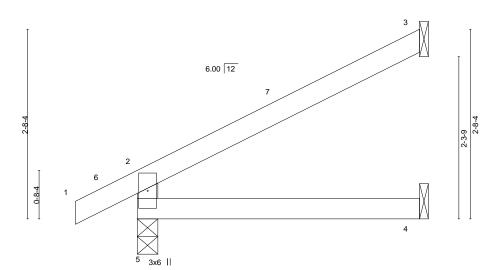


January 4,2021





Job Truss Truss Type Qty summit/hawthorn#25/mo 144192400 2592374 J12 Jack-Open 13 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:23 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-OEct1ks9RAG7v0blFi3Aa0l1KLPjVyGxg92Kw7y3QLk -0-10-8 4-0-0 0-10-8 4-0-0



		I	4-0-0	'	
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.19	DEFL. in (loc Vert(LL) -0.01 4-	,	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.12 WB 0.00 Matrix-AS	Vert(CT) -0.02 4-3 Horz(CT) -0.01	5 >999 180 3 n/a n/a	Weight: 11 lb

4-0-0

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WEBS

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

BOT CHORD 2x4 SPF No.2

> (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=80(LC 12)

Max Uplift 5=-20(LC 12), 3=-58(LC 12) Max Grav 5=252(LC 1), 3=117(LC 1), 4=71(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Scale = 1:16.3

January 4,2021

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

Job Truss Truss Type Qty summit/hawthorn#25/mo 144192401 2592374 J13 Jack-Open Job Reference (optional)

Builders FirstSource (Valley Center),

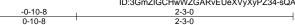
Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:24 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-sQAFF4tnCTO_WAAypQaP7EIDylmHEPW5upotSZy3QLj

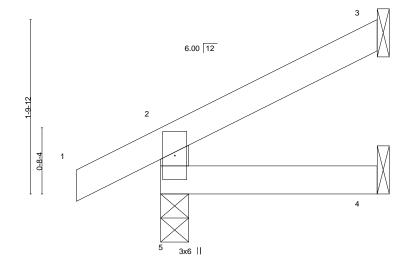
Structural wood sheathing directly applied or 2-3-0 oc purlins,

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

except end verticals.



Scale: 1"=1



BRACING-

TOP CHORD

BOT CHORD

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 0.07	Vert(LL)	-0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.04	Vert(CT)	-0.00	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MR						Weight: 7 lb	FT = 20%

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=48(LC 12)

Max Uplift 5=-19(LC 12), 3=-31(LC 12) Max Grav 5=181(LC 1), 3=55(LC 1), 4=37(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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192402 2592374 J14 Jack-Open 2 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:25 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-KdkdSQuPznWr8JI8N75egRqPw95JzsmE7TXR_0y3QLi 2-6-0 2-6-0 0-10-8

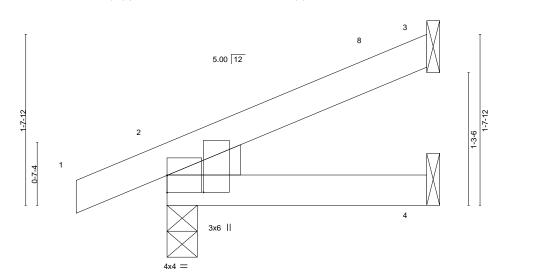


Plate Offsets (X,Y)--[2:0-1-15,0-4-3] SPACING-**PLATES** GRIP LOADING (psf) CSI. DEFL. in (loc) I/defI L/d Plate Grip DOL TCLL 25.0 1.15 TC 0.06 Vert(LL) -0.00 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.05 Vert(CT) -0.00 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 2 n/a n/a Code IRC2018/TPI2014 FT = 20%

2-6-0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

WEDGE

REACTIONS.

Left: 2x4 SPF No.2

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

Max Horz 2=49(LC 12)

Max Uplift 3=-27(LC 12), 2=-23(LC 12) Max Grav 3=66(LC 1), 2=182(LC 1), 4=42(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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-5-4 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

Matrix-MP

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



Weight: 8 lb

Structural wood sheathing directly applied or 2-6-0 oc purlins.

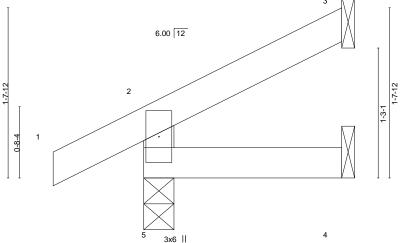
Rigid ceiling directly applied or 10-0-0 oc bracing.

Scale = 1:11.1

January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192403 2592374 J15 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:26 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-opl?gmv1k5eimTJKxrctCfNZSYRuiJ0OM7H_XSy3QLh -0-10-8 1-10-15 0-10-8 1-10-15 Scale = 1:11.1



1-10-15 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL TC Vert(LL) -0.00 240 197/144 **TCLL** 1.15 0.07 5 >999 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) -0.00 5 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MR 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

WEBS 2x4 SPF No.2

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

Max Horz 5=42(LC 12) Max Uplift 5=-19(LC 12), 3=-27(LC 12) Max Grav 5=171(LC 1), 3=44(LC 1), 4=31(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 1-10-15 oc purlins,

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

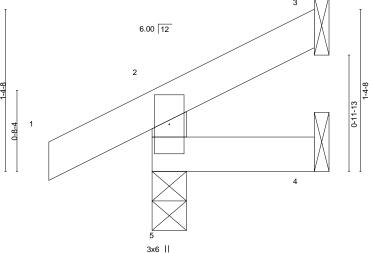
except end verticals.

January 4,2021





Job Truss Truss Type Qty summit/hawthorn#25/mo 144192404 2592374 J16 Jack-Open 3 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:26 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-opl?gmv1k5eimTJKxrctCfNZSYR4iJ0OM7H_XSy3QLh 1-4-8 0-10-8 1-4-8 Scale = 1:9.8



LOADING	VI /	SPACING- 2-0-0	CSI.	DEFL. in (lo	,	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) 0.00	5 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.02	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-MR			Weight: 5 lb FT = 20%

1-4-8

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=33(LC 12)

> Max Uplift 5=-20(LC 12), 3=-17(LC 12) Max Grav 5=156(LC 1), 3=20(LC 1), 4=20(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 1-4-8 oc purlins,

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

except end verticals.

January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192405 2592374 J17 Jack-Open Job Reference (optional)

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:27 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-G?sOt6vgVOmZNduXUY76lswjfymNRmFXbn0X3uy3QLg

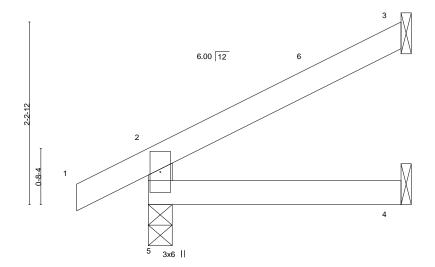
Structural wood sheathing directly applied or 3-1-0 oc purlins,

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

except end verticals.

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

Scale = 1:14.1



3-1-0

BRACING-

TOP CHORD

BOT CHORD

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 0.11 BC 0.08 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 4-5 >999 240 Vert(CT) -0.01 4-5 >999 180 Horz(CT) -0.00 3 n/a n/a	PLATES MT20
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR	, ,	Weight: 9 lb

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=63(LC 12)

> Max Uplift 5=-19(LC 12), 3=-44(LC 12) Max Grav 5=214(LC 1), 3=85(LC 1), 4=54(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-0-4 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



GRIP 197/144

FT = 20%

January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192406 2592374 J18 Jack-Open

Builders FirstSource (Valley Center),

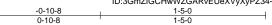
Valley Center, KS - 67147,

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:28 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-kBPm5SwlFiuQ?nTj2GfLH4SuxM7YADVhpRm5bKy3QLf

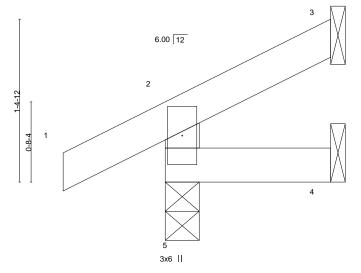
Structural wood sheathing directly applied or 1-5-0 oc purlins,

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

except end verticals.



Scale = 1:9.9



1-5-0
1-5-0

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	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/TF	PI2014	Matri	x-MR						Weight: 5 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

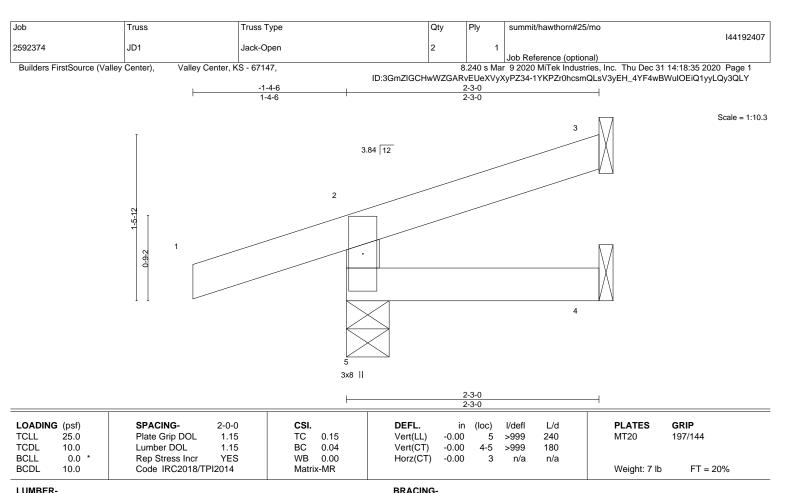
> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=33(LC 12) Max Uplift 5=-20(LC 12), 3=-18(LC 12) Max Grav 5=157(LC 1), 3=23(LC 1), 4=21(LC 3)

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

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

BOT CHORD WEBS 2x4 SPF No.2

> 5=0-4-9, 3=Mechanical, 4=Mechanical (size) Max Horz 5=48(LC 8) Max Uplift 5=-76(LC 8), 3=-22(LC 12)

> Max Grav 5=237(LC 1), 3=42(LC 1), 4=35(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 2-3-0 oc purlins,

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

except end verticals.

January 4,2021





Job Truss Truss Type Qty summit/hawthorn#25/mo 144192408 2592374 JD2 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:35 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-1YKPZr0hcsmQLsV3yEH_4YF5BBW4I0EiQ1yyLQy3QLY 2-0-0 0-10-8 Scale = 1:10.5 5.00 12 1-6-4 1-1-13 2-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) -0.00 >999 240 197/144 **TCLL** 0.07 5 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.02 Vert(CT) -0.00 4-5 >999 180

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

3

n/a

except end verticals.

n/a

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

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

Weight: 6 lb

FT = 20%

LUMBER-

REACTIONS.

BCLL

BCDL

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

BOT CHORD WEBS 2x4 SPF No.2

0.0

10.0

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=41(LC 12) Max Uplift 5=-26(LC 8), 3=-25(LC 12)

Code IRC2018/TPI2014

Max Grav 5=174(LC 1), 3=48(LC 1), 4=33(LC 3)

Rep Stress Incr

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

NOTES-

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

YES

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

WB

Matrix-MR

0.00

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







Job Truss Truss Type Qty summit/hawthorn#25/mo 144192409 2592374 L1 **GABLE** Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

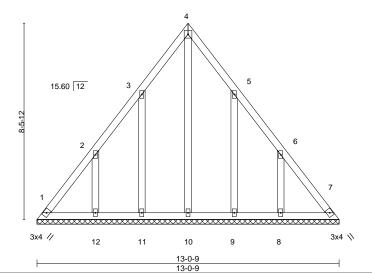
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:36 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-VkunmB0JN9uHy04FWxoDcmnGhasv1pwsfhiWtty3QLX

13-0-9 6-6-5 6-6-5

> Scale = 1:49.8 4x4 =

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

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



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL Vert(LL) 197/144 **TCLL** 1.15 TC 0.09 n/a n/a 999 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.05 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.16 Horz(CT) 0.00 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-S Weight: 65 lb FT = 20%

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

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

REACTIONS. All bearings 13-0-9. Max Horz 1=-204(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=-145(LC 12), 12=-182(LC 12), 9=-144(LC 13),

8=-182(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 9 except 12=261(LC 19), 8=262(LC 20)

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

TOP CHORD 1-2=-267/182

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-9 to 3-3-9, Interior(1) 3-3-9 to 6-6-5, Exterior(2R) 6-6-5 to 9-6-5, Interior(1) 9-6-5 to 12-9-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 11=145, 12=182, 9=144, 8=182.
- 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.



January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192410 **GABLE** 2592374 L2 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:37 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-zwS9zX1x8T08a9fS4eJS9zKPS_BSmHA?uLR3QJy3QLW 10-2-7 Scale = 1:32.6 15.60 12

		· · · · · · · · · · · · · · · · · · ·		5-2-5				0-0-2				
LOADING	G (psf)	SPACING- 2-0	0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.	.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.	.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YE	ES	WB	0.10	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI201	4	Matri	x-S						Weight: 55 lb	FT = 20%

10

93x4 //

LUMBER-

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

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 6-7.

10-2-7

REACTIONS. All bearings 10-2-7.

Max Horz 12=-159(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 12, 6, 9, 11, 10, 8, 7 Max Grav All reactions 250 lb or less at joint(s) 12, 6, 9, 11, 10, 8, 7

12

11

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 6-10-14, Corner(3) 6-10-14 to 9-10-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 6, 9, 11, 10, 8,
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6, 8, 7.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 4,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chore 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192411 2592374 L3 **GABLE** Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

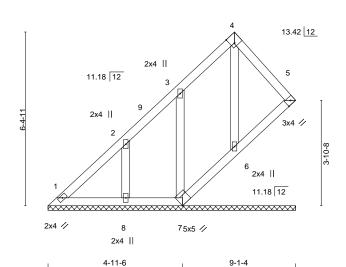
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:38 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-R70YBs2Zvn8?CJEeeMqhhBtcVOXUVIK96?Bdyly3QLV

9-1-4 6-10-5 2-3-0

5x5 //

4-1-15

Scale = 1:42.4



_Plate Offse	Plate Offsets (X,Y) [4:0-1-13,Edge], [5:0-2-4,0-1-8]									
LOADING	· /	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP						
TCLL	25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) n/a - n/a 999 MT20 197/144						
TCDL	10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) n/a - n/a 999						
BCLL	0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 5 n/a n/a						
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Weight: 38 lb FT = 20%						

LUMBER-

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS. All bearings 9-1-4.

(lb) -Max Horz 1=173(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7 except 8=-114(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6, 7 except 8=254(LC 19)

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-7 to 3-4-7, Interior(1) 3-4-7 to 6-10-5, Exterior(2E) 6-10-5 to 8-10-15 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 7 except
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 6.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192412 2592374 L4 **GABLE** Job Reference (optional)

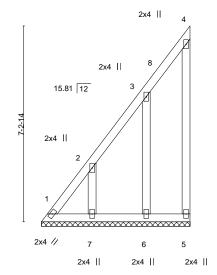
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:39 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-wJawOC3Bg4HspTpqB3LwEOPigot?EBzILfwAUCy3QLU

5-5-15 5-5-15

Scale = 1:42.6



LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.42	DEFL. Vert(LL)	in (loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.03 WB 0.08 Matrix-P	Vert(CT) Horz(CT) (n/a - 0.00 5	n/a n/a	999 n/a	Weight: 31 lb	FT = 20%

LUMBER-BRACING-

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

2x4 SPF No.2 **OTHERS** 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 5-5-15 oc purlins, except end verticals.

BOT CHORD

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

REACTIONS. All bearings 5-5-15.

Max Horz 1=236(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 1=-125(LC 10), 5=-104(LC 11), 6=-143(LC 12), 7=-156(LC

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.

TOP CHORD 1-2=-499/498, 2-3=-341/347

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-8 to 4-6-7, Exterior(2R) 4-6-7 to 5-4-3 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) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 1, 104 lb uplift at joint 5, 143 lb uplift at joint 6 and 156 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.



January 4,2021





Job Truss Truss Type Qty summit/hawthorn#25/mo 144192413 2592374 M1 MONOPITCH 3 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:40 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-OV8lcY3pROPjRdO1lns9ncysFC7UzeTSaJgj0ey3QLT 6-3-8 0-10-8 6-3-8

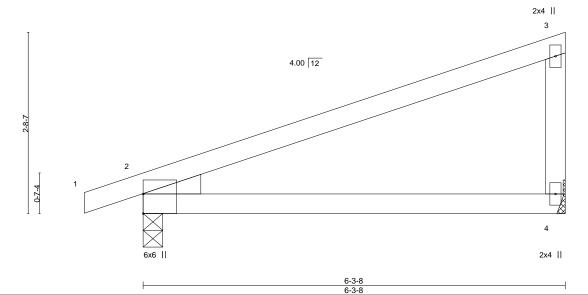


Plate Offsets (X, Y	Plate Offsets (A, Y) [2:0-1-14,0-6-14]								
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP					
TCLL 25.0	Plate Grip DOL 1.15	TC 0.50	Vert(LL) 0.08 4-7 >879 240	MT20 197/144					
TCDL 10.0	Lumber DOL 1.15	BC 0.39	Vert(CT) -0.15 4-7 >483 180						
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.03 2 n/a n/a						
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 19 lb FT = 20%					

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE Left: 2x4 SPF No.2

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

Max Horz 2=95(LC 11)

Max Uplift 4=-46(LC 12), 2=-65(LC 8) Max Grav 4=272(LC 1), 2=342(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 4 and 65 lb uplift at joint 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.
- 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.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

Scale = 1:17.2

January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192414 2592374 M2 Monopitch 3 Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:41 2020 Page 1 ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-siigpu4SCiXa3nzDJUOPJpV7DbYqi5jbpzPHZ4y3QLS

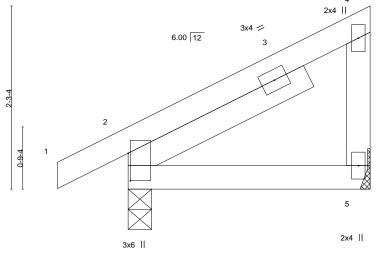
Structural wood sheathing directly applied or 3-0-0 oc purlins,

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

except end verticals.

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

Scale = 1:14.3



	3-0-0
Γ	3-0-0

BRACING-

TOP CHORD

BOT CHORD

Plate Off	fsets (X,Y)	[2:0-4-1,0-0-5]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	5-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	5-8	>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/TF	PI2014	Matr	x-MP						Weight: 13 lb	FT = 20%

LUMBER-

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

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

REACTIONS.

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

Max Horz 2=73(LC 11)

Max Uplift 5=-27(LC 12), 2=-26(LC 12) Max Grav 5=119(LC 1), 2=199(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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-10-4 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 5 and 26 lb uplift at ioint 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.



January 4,2021



Job Truss Truss Type Qty summit/hawthorn#25/mo 144192415 2592374 M3 **GABLE** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 14:18:41 2020 Page 1

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-siigpu4SCiXa3nzDJUOPJpVz1bTCi5ubpzPHZ4y3QLS 3-3-2 3-3-2 0-10-8 3-8-14

3x4 = 5.00 12 2x4 > 0-8-4 3x6 4x4

BRACING-

TOP CHORD

BOT CHORD

Plate Offs	Plate Offsets (X,Y) [4:0-0-13,0-1-8]								
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 0.75	Vert(LL) -0.09 5-6 >848 240	MT20 197/144				
TCDL	10.0	Lumber DOL 1.15	BC 0.43	Vert(CT) -0.20 5-6 >398 180					
BCLL	0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) -0.00 5 n/a n/a					
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 26 lb FT = 20%				

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 6=0-3-8, 5=0-3-8 Max Horz 6=129(LC 11)

Max Uplift 6=-49(LC 12), 5=-56(LC 12) Max Grav 6=379(LC 1), 5=296(LC 1)

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

BOT CHORD 5-6=-315/181

WEBS 3-5=-118/303, 2-6=-308/279

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; 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 6-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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 49 lb uplift at joint 6 and 56 lb uplift at
- 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 6-0-0 oc purlins,

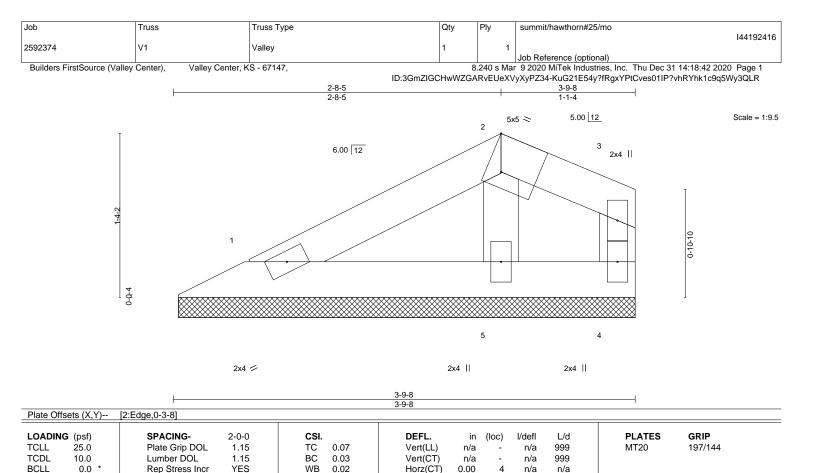
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

Scale = 1:21.1

January 4,2021





LUMBER-

BCDL

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

10.0

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

TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins,

except end verticals.

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

REACTIONS. (size) 1=3-9-0, 4=3-9-0, 5=3-9-0

Max Horz 1=22(LC 9)

Max Uplift 1=-13(LC 12), 4=-12(LC 13), 5=-3(LC 12) Max Grav 1=89(LC 25), 4=35(LC 1), 5=148(LC 1)

Code IRC2018/TPI2014

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Matrix-P

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1, 12 lb uplift at joint 4 and 3 lb uplift at joint 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.



FT = 20%

Weight: 10 lb

January 4,2021





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.

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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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
- 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.