



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

Re: 3008827

C&H/154 Cobey Creek

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: I49242007 thru I49242032

My license renewal date for the state of Missouri is December 31, 2022.

Missouri COA: Engineering 001193



December 14,2021

Fox, Steve

,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 C&H/154 Cobey Creek 149242007 3008827 Α1 Common Supported Gable Job Reference (optional)

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:24 2021 Page 1 ID:N2YErRAi_NDqpoFerk7lxdzajL2-_e6efF6k4BfKMO53VqLZUxAd1JkwEfxovK9Tyvy9Fkb

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

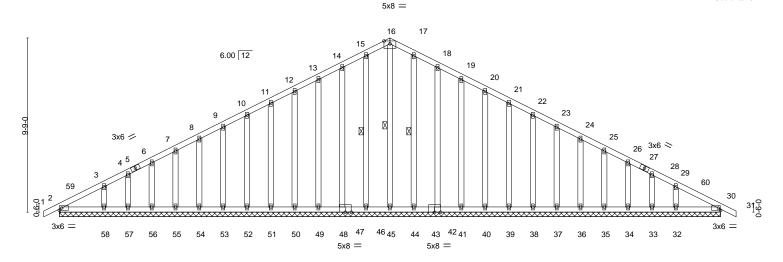
16-45, 15-46, 17-44

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

1 Row at midpt

0-10-8 18-6-0 18-6-0

Scale: 3/16"=1



						37-0-0						
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	30	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	30	n/r	120		
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	30	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-S						Weight: 236 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SPF No.2

All bearings 37-0-0.

Max Horz 2=171(LC 16) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 46, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 44, 42, 41,

40, 39, 38, 37, 36, 35, 34, 33, 32

Max Grav All reactions 250 lb or less at joint(s) 2, 45, 46, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 44,

42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 30

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

13-14=-91/252, 14-15=-105/290, 15-16=-112/310, 16-17=-112/310, 17-18=-105/290, TOP CHORD

18-19=-91/252

NOTES-

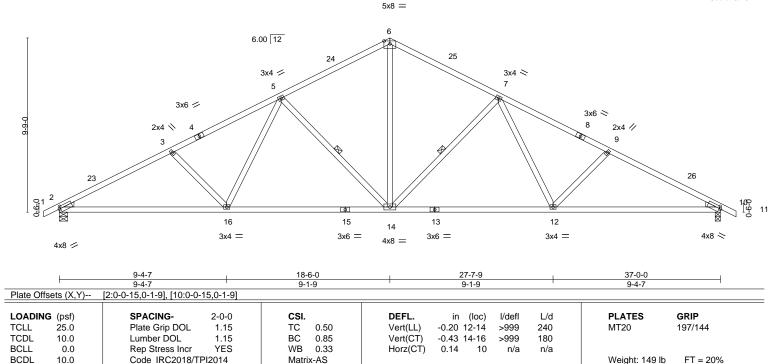
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 18-6-0, Corner(3R) 18-6-0 to 21-6-0, Exterior(2N) 21-6-0 to 37-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 46, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 44, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32.
- 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.





Job Truss Truss Type Qty C&H/154 Cobey Creek 149242008 3008827 A2 Common Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:26 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:N2YErRAi_NDqpoFerk7lxdzajL2-w0EO4x8_cpw2bhFSdFO1ZMFtq7DoiU05MeeZ0oy9FkZ 37-10₁8 0-10-8 18-6-0 24-7-1 30-8-2 37-0-0 -0-10-8 0-10-8 6-3-14 6-1-1 6-1-1 6-1-1 6-1-1 6-3-14

Scale: 3/16"=1



BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

7-14, 5-14

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

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

WEDGE

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

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

Max Horz 2=171(LC 12)

Max Uplift 2=-295(LC 12), 10=-295(LC 13) Max Grav 2=1726(LC 1), 10=1726(LC 1)

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

 $2\hbox{-}3\hbox{-}3046/509,\ 3\hbox{-}5\hbox{-}-2750/479,\ 5\hbox{-}6\hbox{-}-1958/418,\ 6\hbox{-}7\hbox{-}-1958/418,\ 7\hbox{-}9\hbox{-}-2750/479,$ TOP CHORD

9-10=-3046/510

BOT CHORD 2-16=-530/2632, 14-16=-343/2170, 12-14=-220/2170, 10-12=-360/2632 WEBS

6-14=-209/1262, 7-14=-758/297, 7-12=-87/500, 9-12=-380/217, 5-14=-758/296,

5-16=-87/500, 3-16=-380/217

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-6-0, Exterior(2R) 18-6-0 to 21-6-0, Interior(1) 21-6-0 to 37-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=295, 10=295.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





Job Truss Truss Type Qty C&H/154 Cobey Creek 149242009 3008827 **A3** Roof Special 6 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:27 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:N2YErRAi_NDqpoFerk7lxdzajL2-ODomHG8cN62vDrqeAyvG5Zo?8XbCRyuEbIO7YEy9FkY 3-11-12 23-4-4 10-0-13 16-1-14 22-5-12 3-8-4 6-1-1 6-1-1 6-3-14 Scale = 1:55.8 4x6 = 6.00 12 18 2 17 4x8 = 3x4 ≥ 3x6 = 3x6 ≥ 4 2x4 // 7-9-2 5 3x6 =16 12 20 11 3x4 = 4x6 = 3x6 =5x8 II 4x8 = 3-11-12 9-4-7 3-8-4 9-1-9 Plate Offsets (X,Y)--[1:0-6-8,0-0-8] SPACING-L/d **GRIP** LOADING (psf) 2-0-0 CSI DEFL. in (loc) I/def **PLATES** Plate Grip DOL TCLL 25.0 1.15 TC 0.66 Vert(LL) -0.12 8-15 >999 240 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.71 Vert(CT) -0.26 8-10 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.29 Horz(CT) 0.29 6 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 112 lb Matrix-AS BRACING-LUMBER-TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied, except end verticals. BOT CHORD **BOT CHORD** 2x4 SPF No.2 Rigid ceiling directly applied. WEBS 2x4 SPF No.2 **WEBS** 1 Row at midpt 3-10 **OTHERS** 2x4 SPF No.2 WEDGE

Right: 2x4 SP No.3

REACTIONS. (size) 6=0-3-8, 16=0-1-8

Max Horz 16=-295(LC 13)

Max Uplift 6=-219(LC 13), 16=-189(LC 13)

Max Grav 6=1071(LC 1), 16=974(LC 1)

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

TOP CHORD 1-2=-438/256, 2-3=-515/220, 3-5=-1362/315, 5-6=-1669/347

8-10=-54/901, 6-8=-216/1414 **BOT CHORD**

1-10=-125/749, 3-10=-778/299, 3-8=-84/546, 5-8=-406/221, 1-16=-977/217 **WEBS**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 3-11-12, Exterior(2R) 3-11-12 to 6-11-12 , Interior(1) 6-11-12 to 23-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Bearing at joint(s) 16 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 at joint(s) 16.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=219, 16=189.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/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.





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 C&H/154 Cobey Creek 149242010 3008827 A3A Roof Special Job Reference (optional)

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

4x6 ||

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:28 2021 Page 1 ID:N2YErRAi_NDqpoFerk7lxdzajL2-sPM9Vc9E8QAmr?PqkgQVenLBLwy2AFaNqy7g5gy9FkX

Structural wood sheathing directly applied.

5-11

Rigid ceiling directly applied.

1 Row at midpt

14-2-13 2-8-0 16-10-14 3-11-12 5-11-4 0-8-4 1-11-8 2-8-0

Scale = 1:55.8

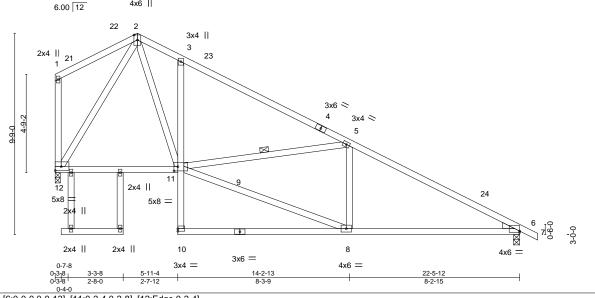


Plate Offsets (X,Y)-- [6:0-0-0,0-0-13], [11:0-2-4,0-2-8], [12:Edge,0-2-4]

LOADING	G (psf)	SPACING- 2-0)-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.	15	TC	0.63	Vert(LL)	-0.11	8-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.	15	BC	0.60	Vert(CT)	-0.23	8-10	>999	180		
BCLL	0.0	Rep Stress Incr YI	ES	WB	0.90	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI201	4	Matri	x-AS						Weight: 119 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE Right: 2x4 SP No.3

REACTIONS.

(size) 12=0-3-0, 6=0-3-8 Max Horz 12=-291(LC 8)

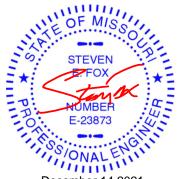
Max Uplift 12=-174(LC 13), 6=-234(LC 13) Max Grav 12=1004(LC 1), 6=1067(LC 1)

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

TOP CHORD 2-3=-1013/335, 3-5=-1103/252, 5-6=-1613/350 **BOT CHORD** 11-12=0/500, 3-11=-422/231, 6-8=-198/1341

WEBS 5-8=-297/139, 8-11=-223/1410, 5-11=-500/308, 2-12=-917/238, 2-11=-315/1159

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-11-12, Exterior(2R) 3-11-12 to 6-11-12, interior(1) 6-11-12 to 23-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=174, 6=234.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





Job Truss Truss Type Qty Ply C&H/154 Cobey Creek 149242011 3008827 A4 ROOF SPECIAL GIRDER Job Reference (optional)
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

Structural wood sheathing directly applied or 3-9-14 oc purlins,

4-13, 3-16

except end verticals, and 2-0-0 oc purlins (4-3-11 max.): 1-3.

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

1 Row at midpt

Scale = 1:74.3



6x8 || 6.00 12 5 6x8 / 6x8 =3x4 < 6x8 = 2x4 II 6 3x6 > 2x4 // 25 15 26₁₄ 21 22 23 24 12 11 17 16 13 4x6 = 5x8 = LUS24 4x8 = 4x8 | 10x20 MT20HS = 7x8 WB = 7x8 =LUS24 LUS24 LUS24 LUS24 10x20 MT20HS = LUS24 Special

	6-2-1	12-0-11	14-7-12 18-	-6-0	27-7-9	1	37-0-0	_
	6-2-1	5-10-9	' 2-7-1 ' 3-1	10-4	9-1-9	1	9-4-7	1
Plate Offsets (X,Y)	[1:0-3-8,0-1-8], [4:0-2-1:	2,0-2-8], [9:0-0-0),0-1-1], [14:0-9-8,0-5-0]					
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 0.72	Vert(LL)	-0.34 14-16 >999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.61 14-16 >719	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	NO	WB 0.86	Horz(CT)	0.11 9 n/a	n/a		
BCDL 10.0	Code IRC2018/1	TPI2014	Matrix-MS				Weight: 434 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD 3-5: 2x6 SPF No.2

BOT CHORD 2x6 SPF No.2 *Except* 15-17: 2x6 SP 2400F 2.0E, 12-15: 2x6 SPF 2100F 1.8E

WEBS 2x4 SPF No.2 *Except*

1-17: 2x6 SPF No.2, 1-16: 2x4 SPF 1650F 1.5E

OTHERS 2x4 SPF No 2

REACTIONS. (size) 17=0-3-8, 9=0-3-8

Max Horz 17=-300(LC 6)

Max Uplift 17=-1598(LC 8), 9=-808(LC 9) Max Grav 17=7173(LC 1), 9=4066(LC 1)

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

TOP CHORD 1-17=-6723/1503, 1-2=-6542/1396, 2-3=-6542/1396, 3-4=-10479/2175, 4-5=-7037/1508,

5-6=-7156/1493, 6-8=-7854/1590, 8-9=-8137/1621

BOT CHORD 16-17=-70/277, 14-16=-1959/9950, 13-14=-1772/9238, 11-13=-1178/6775,

WEBS 1-16=-2012/9202, 2-16=-466/200, 4-13=-6332/1441, 5-13=-1236/6007, 6-13=-687/336, 6-11=-148/478, 8-11=-350/240, 4-14=-1503/6983, 3-14=-1795/471, 3-16=-4864/955

NOTES-

1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc, 2x4 - 1 row at 0-7-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-2-0 oc.

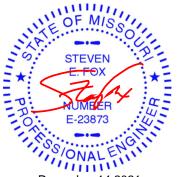
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

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

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

- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=1598, 9=808.
- 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.

Continued on page 2



December 14,2021

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

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

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



Job	Truss	Truss Type	Qty	Ply	C&H/154 Cobey Creek	
						149242011
3008827	A4	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:31 2021 Page 2 ID:N2YErRAi_NDqpoFerk7lxdzajL2-H_1H7eB7RLYKiT8PPozCGPzg78xrNd?qWwMKh?y9FkU

11) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 12-0-12 to connect truss(es) to front face of bottom chord.

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

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 588 lb down and 169 lb up at 14-0-12, and 3749 lb down and 725 lb up at 14-7-12 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: 1-3=-70, 3-5=-70, 5-10=-70, 17-18=-20

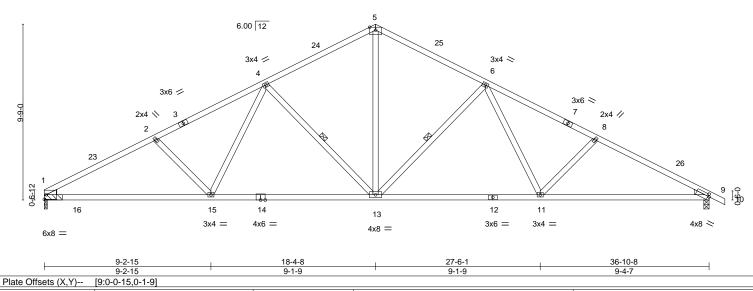
Concentrated Loads (lb)

Vert: 14=-3749(F) 16=-588(F) 21=-588(F) 22=-588(F) 23=-588(F) 24=-588(F) 25=-588(F) 26=-588(F)



Job Truss Truss Type Qty C&H/154 Cobey Creek 149242012 3008827 A5 Common 3 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:32 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:N2YErRAi_NDqpoFerk7lxdzajL2-lAbfK_ClCfgBJcjczVURodVvLYGE6CVzlZ5uESy9FkT 24-5-9 30-6-10 36-10-8 37-9-0 0-10-8 6-1-1 6-1-1 6-1-1 6-1-1 6-3-14

5x8 =



PLATES LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/def L/d GRIP 240 TCLL 25.0 Plate Grip DOL 1.15 TC 0.50 Vert(LL) -0.20 13-15 >999 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.84 Vert(CT) -0.44 13-15 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.33 Horz(CT) 0.14 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-AS Weight: 148 lb

BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

6-13, 4-13

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

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

WEDGE

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

REACTIONS. (size) 1=(0-2-0 + bearing block) (req. 0-2-10), 9=0-3-8

Max Horz 1=-180(LC 13)

Max Uplift 1=-273(LC 12), 9=-294(LC 13) Max Grav 1=1659(LC 1), 9=1721(LC 1)

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

TOP CHORD 1-2=-2981/502. 2-4=-2711/474. 4-5=-1948/419. 5-6=-1948/417. 6-8=-2739/478.

8-9=-3035/509

BOT CHORD 1-15=-521/2581, 13-15=-341/2151, 11-13=-220/2160, 9-11=-359/2623

WEBS 5-13=-209/1254, 6-13=-758/297, 6-11=-87/500, 8-11=-380/217, 4-13=-747/296,

4-15=-83/476, 2-15=-357/208

NOTES-

- 1) 2x4 SPF No.2 bearing block 12" long at jt. 1 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF No.2.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 18-4-8, Exterior(2R) 18-4-8 to 21-4-8, Interior(1) 21-4-8 to 37-9-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=273, 9=294.
- 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: 3/16"=1

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

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



Job Truss Truss Type Qty C&H/154 Cobey Creek 149242013 3008827 A6 Common Supported Gable Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:35 2021 Page 1

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

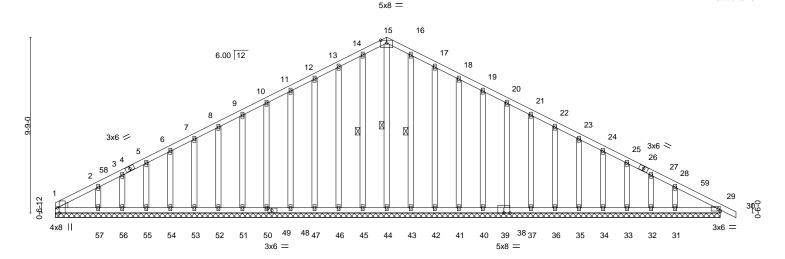
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18-4-8

18-6-0

37-9-0 0-10-8

Scale: 3/16"=1



36-10-8

Plate Offsets (X,Y)	[1:0-3-8,Edge], [49:0-2-8,0-	1-8]									
LOADING (ps	f)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.	0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	29	n/r	120	MT20	197/144
TCDL 10.	0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	29	n/r	120		
BCLL 0.	0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	29	n/a	n/a		
BCDL 10.	0	Code IRC2018/TPI2	2014	Matri	x-S						Weight: 235 lb	FT = 20%

LUMBER-

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

Left: 2x4 SPF No.2

BRACING-

TOP CHORD **BOT CHORD WEBS**

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

1 Row at midpt 15-44, 14-45, 16-43

REACTIONS. All bearings 36-10-8.

Max Horz 1=-175(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 45, 46, 47, 48, 50, 51, 52, 53, 54, 55, 56, 57, 43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31

Max Grav All reactions 250 lb or less at joint(s) 1, 44, 45, 46, 47, 48, 50, 51, 52, 53, 54, 55, 56, 57, 43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31, 29

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

TOP CHORD 12-13=-91/252, 13-14=-105/290, 14-15=-112/310, 15-16=-112/310, 16-17=-105/290, 17-18=-91/252

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 18-4-8, Corner(3R) 18-4-8 to 21-4-8, Exterior(2N) 21-4-8 to 37-9-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 45, 46, 47, 48, 50, 51, 52, 53, 54, 55, 56, 57, 43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31.
- 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.



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



Joh Truss Truss Type Qty C&H/154 Cobey Creek 149242014 3008827 В1 GABLE Job Reference (optional)

Builders First Source, Valley Center, KS 67147

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Dec 14 14:05:30 2021 Page ID:N2YErRAi_NDqpoFerk7lxdzajL2-Zr5LYy8MwXUmlHvytOYCo1_QvYA3Z2Nft3HBkJy917p 3-6-12 6-10-0 10-1-4 13-8-0 14-6-8 0-10-8 3-3-4 3-3-4 0-10-8 3-6-12 3-6-12

> Scale = 1:40.14x6 =

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

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

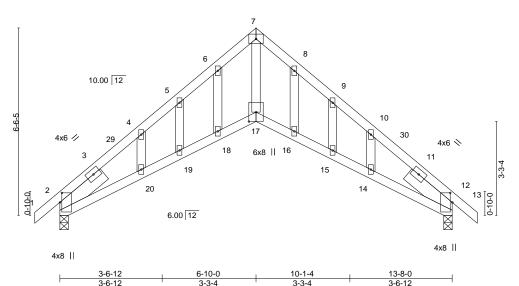


Plate Offsets (X,Y)--[2:0-3-15,0-0-13], [12:0-3-15,0-0-13], [17:0-3-15,0-3-0]

LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.13	19-20	>999	240	MT20	197/144
TCDL 1	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.17	19-20	>990	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.10	12	n/a	n/a		
BCDL 1	10.0	Code IRC2018/TF	PI2014	Matri	x-MS						Weight: 64 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 OTHERS 2x4 SPF No.2

SLIDER Left 2x6 SPF No.2 -ä 2-0-0, Right 2x6 SPF No.2 -ä 2-0-0

REACTIONS. (lb/size) 2=676/0-3-8, 12=676/0-3-8

Max Horz 2=-168(LC 10)

Max Uplift 2=-104(LC 12), 12=-104(LC 13)

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

TOP CHORD 2-3=-476/316, 3-29=-1119/186, 4-29=-1054/190, 4-5=-1060/251, 5-6=-1034/298,

6-7=-985/343, 7-8=-985/345, 8-9=-1034/300, 9-10=-1060/252, 10-30=-1081/194,

11-30=-1119/190, 11-12=-457/308

BOT CHORD 2-20=-55/883, 19-20=-76/914, 18-19=-91/949, 17-18=-106/968, 16-17=-82/943, 15-16=-78/937, 14-15=-72/909, 12-14=-67/894

7-17=-251/996 WFBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 6-10-0, Corner(3R) 6-10-0 to 9-10-0, Exterior(2N) 9-10-0 to 14-6-8 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
- 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 studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Bearing at joint(s) 2, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 2 and 104 lb uplift at
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





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



Job Truss Truss Type Qty C&H/154 Cobey Creek 149242015 3008827 B2 **GABLE**

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:37 2021 Page 1 ID:N2YErRAi_NDqpoFerk7lxdzajL2-68OYOhGt0BIUQObZm34cVgCo9Z5vnV?iurpfvfy9FkO



Scale = 1:57.3 4x6 ||

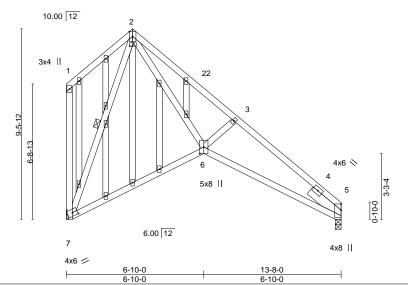


Plate Off	Plate Offsets (X,Y) [2:0-1-12,0-0-7], [5:0-3-11,0-0-1], [6:0-3-15,0-2-8], [7:0-3-1,0-2-0]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.08	6-7	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.16	6-7	>991	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT	0.10	5	n/a	n/a			
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-AS						Weight: 99 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

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

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

Max Horz 7=-324(LC 10)

Max Uplift 5=-72(LC 13), 7=-149(LC 13) Max Grav 5=608(LC 1), 7=608(LC 1)

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

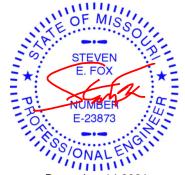
TOP CHORD 1-2=-229/258, 2-3=-1005/269, 3-5=-1211/253

BOT CHORD 6-7=-129/369, 5-6=-119/979

WEBS 2-6=-119/942, 3-6=-292/258, 2-7=-572/154

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-3-8, Exterior(2R) 3-3-8 to 6-3-8, Interior(1) 6-3-8 to 13-8-0 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) 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 studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 5 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) 5 except (jt=lb) 7=149
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

1 Row at midpt

December 14,2021



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



Job Truss Truss Type Qty C&H/154 Cobey Creek 149242016 3008827 **B**3 Scissor Job Reference (optional)

Builders FirstSource (Valley Center),

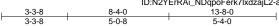
Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:38 2021 Page 1 ID:N2YErRAi_NDqpoFerk7lxdzajL2-aKyxb1HWnVQL1XAlKmbr2ulzuyR8WyFs7VYCR5y9FkN

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

1 Row at midpt



Scale = 1:57.3 4x6 ||

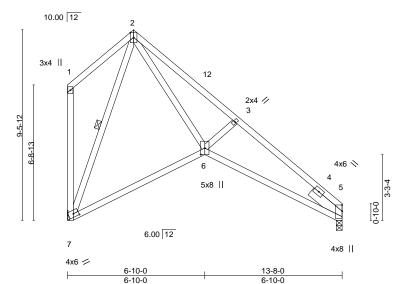


Plate Offsets (X,Y)-- [5:0-3-11,0-0-1], [6:0-3-15,0-2-8], [7:0-3-1,0-2-0]

	. , , ,	7			
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 0.31	Vert(LL) -0.08 6-7 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.36	Vert(CT) -0.16 6-7 >991 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.25	Horz(CT) 0.10 5 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 70 lb FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

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

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

Max Horz 7=-324(LC 10)

Max Uplift 5=-72(LC 13), 7=-149(LC 13) Max Grav 5=608(LC 1), 7=608(LC 1)

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

1-2=-229/258, 2-3=-1005/269, 3-5=-1211/253 TOP CHORD **BOT CHORD**

6-7=-129/369. 5-6=-119/979

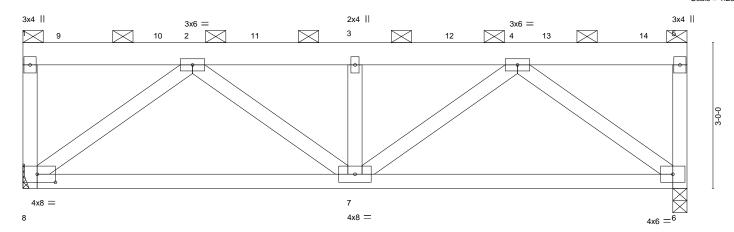
WEBS 2-6=-119/942, 3-6=-292/258, 2-7=-572/154

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-3-8, Exterior(2R) 3-3-8 to 6-3-8, Interior(1) 6-3-8 to 13-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb)
- 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.





Scale = 1:23.7



	6-10-0		6-10-0	
Plate Offsets (X,Y)	[8:0-4-8,0-2-0]			
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 0.24	Vert(LL) -0.04 7 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(CT) -0.08 7 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.04 6 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 131 lb FT = 20%

BOT CHORD

LUMBER-BRACING-TOP CHORD

6-10-0

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

2x4 SPF No.2

REACTIONS. (size) 8=Mechanical, 6=0-3-8 Max Horz 8=-100(LC 29)

Max Uplift 8=-705(LC 8), 6=-698(LC 9) Max Grav 8=3770(LC 1), 6=3814(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-8=-909/217, 2-3=-4771/1057, 3-4=-4771/1057, 5-6=-955/213

BOT CHORD 7-8=-913/3642 6-7=-876/3641

WEBS 3-7=-1652/416, 2-8=-4514/1074, 2-7=-297/1435, 4-7=-304/1436, 4-6=-4511/1068

OTHERS

- 1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
- Webs connected as follows: 2x4 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=705 6=698
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 914 lb down and 217 lb up at 0-10-4, 904 lb down and 222 lb up at 2-10-4, 904 lb down and 222 lb up at 6-10-4, 904 lb down and 222 lb up at 6-10-4, 904 lb down and 222 lb up at 8-10-4, and 904 lb down and 222 lb up at 10-10-4, and 945 lb down and 202 lb up at 12-10-4 on top chord.

Contilled compage gelection of such connection device(s) is the responsibility of others.



2-0-0 oc purlins (6-0-0 max.): 1-5, except end verticals.

Rigid ceiling directly applied.

MiTek

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

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

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Ply C&H/154 Cobey Creek 149242017 FLAT 3008827 B4

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

| **Z** | Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:39 2021 Page 2 ID:N2YErRAi_NDqpoFerk7lxdzajL2-2XWJoNl8YoYCfhlytT64a5l9cMm3FM8?M9ll_Yy9FkM

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-70, 6-8=-20

Concentrated Loads (lb)

Vert: 3=-904 9=-914 10=-904 11=-904 12=-904 13=-904 14=-945

Job Truss Truss Type Qty C&H/154 Cobey Creek 149242018 3008827 **B**5 Monopitch Supported Gable Job Reference (optional)

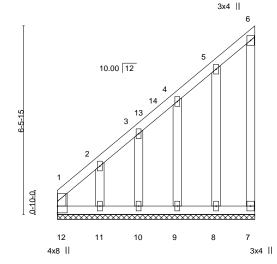
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:40 2021 Page 1 ID:N2YErRAi_NDqpoFerk7lxdzajL2-Wj4h0jlmJ6g3HrK8RBeJ7JqJym8p_uT8ap1JW_y9FkL

6-9-8

Scale = 1:39.6



LOADING (psf)	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.27	DEFL.	in	(loc)	l/defl	L/d	PLATES MT20	GRIP 197/144
TCLL 25.0 TCDL 10.0	Lumber DOL 1.15	BC 0.22	Vert(LL) Vert(CT)	n/a n/a	-	n/a n/a	999 999	IVI I ZU	197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.07 Matrix-R	Horz(CT)	0.00	7	n/a	n/a	Weight: 40 lb	FT = 20%

BOT CHORD

LUMBER-BRACING-

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

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

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

REACTIONS. All bearings 6-9-8. (lb) -Max Horz 12=239(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 7, 8, 9, 10 except 12=-125(LC 10), 11=-185(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 12, 7, 8, 9, 10, 11

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-12=-461/276, 1-2=-657/416, 2-3=-458/303, 3-4=-382/269, 4-5=-267/224

WEBS 2-11=-203/296

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 6-7-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 8, 9, 10 except
- 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.





Job Truss Truss Type Qty Ply C&H/154 Cobey Creek 149242019 3008827 C₁ Common Supported Gable

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:41 2021 Page 1 ID:N2YErRAi_NDqpoFerk7lxdzajL2-_ve3D3JO4Qovu?vK?u9YgWNXSAXriLalpTns2Qy9FkK

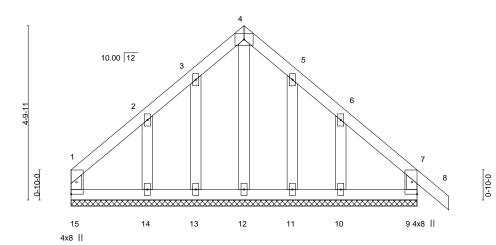
9-6-8 4-9-4 4-9-4 0-10-8

> Scale: 3/8"=1 4x6 =

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

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

except end verticals.



9-6-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/def 25.0 Plate Grip DOL Vert(LL) -0.00 120 197/144 **TCLL** 1.15 TC 0.09 8 n/r MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.04 Vert(CT) -0.00 8 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.08 Horz(CT) 0.00 9 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Weight: 44 lb FT = 20%

TOP CHORD

BOT CHORD

9-6-8

LUMBER-BRACING-

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

2x4 SPF No.2

REACTIONS. All bearings 9-6-8. (lb) -Max Horz 15=-139(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 15, 9, 13, 11 except 14=-124(LC 12), 10=-118(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 15, 9, 12, 13, 14, 11, 10

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

TOP CHORD 3-4=-129/253, 4-5=-129/253

NOTES-

OTHERS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-1-12 to 3-5-4, Exterior(2N) 3-5-4 to 4-9-4, Corner(3R) 4-9-4 to 7-9-4, Exterior(2N) 7-9-4 to 10-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 9, 13, 11
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Ply C&H/154 Cobey Creek 149242020 3008827 C2 Common Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:42 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:N2YErRAi_NDqpoFerk7lxdzajL2-S5CRRPK0rjxmW9UXZcgnCkwggarqRpPR27WQaty9FkJ 9-6-8 4-9-4 4-9-4 0-10-8 Scale: 3/8"=1" 4x6 = 3 10.00 12 4x6 // 17 4x6 💉 0-10-0 0-110-0 7 2x4 || 4x6 || 4x6 || 9-6-8 4-9-4 Plate Offsets (X,Y)-- [1:0-1-8,0-0-2], [5:0-3-7,0-0-2]

LC	ADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in
TC	CLL	25.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.02
TC	DL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.03
BC	CLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.01
BC	DL	10.0	Code IRC2018/T	PI2014	Matrix	x-AS		

7-10 >999 240 7-10 >999 180 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

(loc)

I/defI

Rigid ceiling directly applied.

L/d

Structural wood sheathing directly applied.

MT20 197/144

PLATES

FT = 20% Weight: 39 lb

GRIP

LUMBER-

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

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

REACTIONS.

(size) 1=0-3-8, 5=0-3-8 Max Horz 1=-116(LC 10)

Max Uplift 1=-58(LC 12), 5=-79(LC 13) Max Grav 1=427(LC 1), 5=493(LC 1)

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

1-3=-378/190, 3-5=-380/190 TOP CHORD BOT CHORD 1-7=-14/277, 5-7=-14/277

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-9-4, Exterior(2R) 4-9-4 to 7-9-4, Interior(1) 7-9-4 to 10-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





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

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



Job Truss Truss Type Qty C&H/154 Cobey Creek 149242021 3008827 C3 Common Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:42 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:N2YErRAi_NDqpoFerk7lxdzajL2-S5CRRPK0rjxmW9UXZcgnCkwgXar6RpRR27WQaty9FkJ 10-1-0 9-2-8 4-9-4 0-10-8 Scale: 3/8"=1 4x6 = 3 10.00 12

4x6 // 17 3x4 📏 16 0-110-0 7 2x4 | 3x6 || 4x12 ||

	<u> </u>	4-5-4	4-9-4	<u> </u>	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) -0.02 7-14	>999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) -0.03 7-14	>999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.04	Horz(CT) -0.01 1	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 37 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

BOT CHORD 2x4 SPF No.2 WEBS

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

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

Max Horz 5=-116(LC 8)

Max Uplift 1=-54(LC 12), 5=-76(LC 13) Max Grav 1=411(LC 1), 5=479(LC 1)

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

TOP CHORD 1-3=-375/186, 3-5=-350/180

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-5-4, Exterior(2R) 4-5-4 to 7-5-4, Interior(1) 7-5-4 to 10-1-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.





Job Truss Truss Type Qty C&H/154 Cobey Creek 149242022 3008827 D1 **GABLE** Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:43 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:N2YErRAi_NDqpoFerk7lxdzajL2-wImqelLec13d8J2j6JB0lxSoazAEAGLbHnGz7Jy9Fkl 4-11-8 0-10-8 4-11-8 Scale = 1:12.4 2x4_H 2x4 || 4.00 12 1-7-10 0-4-0 2x4 || 2x4 =2x4 || 4-11-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL TC Vert(LL) -0.03 >999 240 197/144 **TCLL** 1.15 0.44 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.24 Vert(CT) -0.06 2-4 >898 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 15 lb FT = 20% BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS.

(size) 4=Mechanical, 2=1-3-8

Max Horz 2=78(LC 9)

Max Uplift 4=-52(LC 12), 2=-85(LC 8) Max Grav 4=209(LC 1), 2=283(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 4-9-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 1-4-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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 4-11-8 oc purlins,

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

except end verticals.



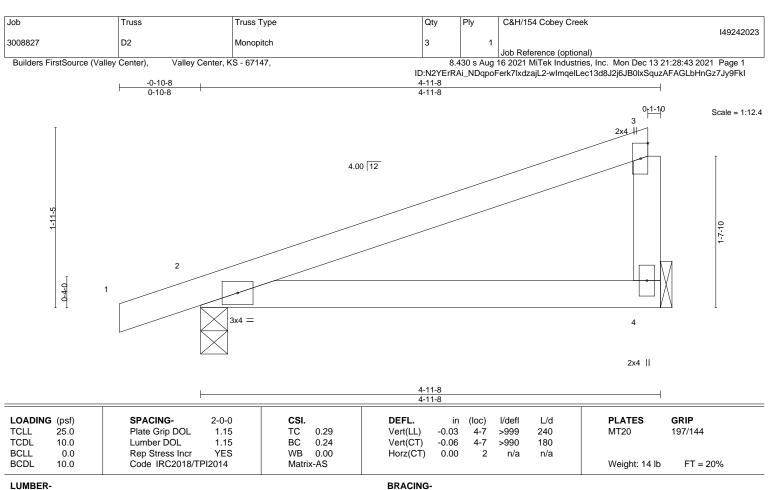


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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





TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SPF No 2 2x4 SPF No.2

BOT CHORD WEBS 2x4 SPF No.2

REACTIONS. 4=Mechanical, 2=0-3-8 (size) Max Horz 2=79(LC 11)

Max Uplift 4=-53(LC 12), 2=-85(LC 8) Max Grav 4=211(LC 1), 2=283(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.



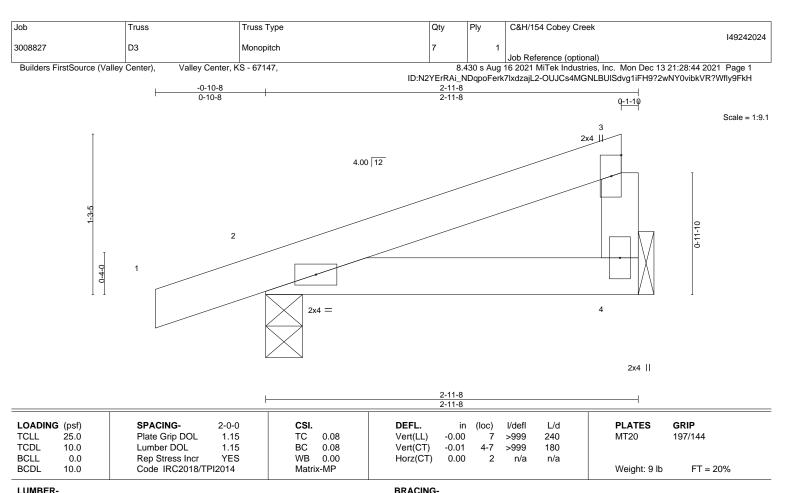


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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





TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SPF No 2 2x4 SPF No.2

BOT CHORD WEBS 2x4 SPF No.2

REACTIONS. 4=Mechanical, 2=0-3-8 (size) Max Horz 2=49(LC 11)

Max Uplift 4=-29(LC 12), 2=-69(LC 8) Max Grav 4=117(LC 1), 2=197(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

except end verticals.



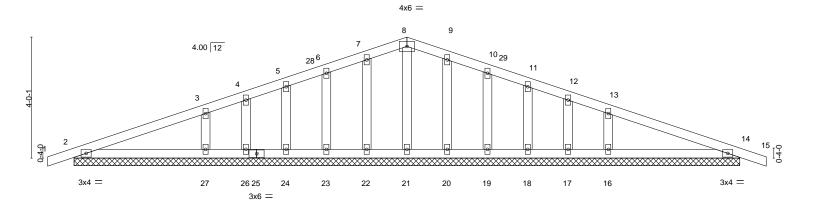




Job Truss Truss Type Qty C&H/154 Cobey Creek 149242025 3008827 E1 Common Supported Gable Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:45 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:N2YErRAi_NDqpoFerk7lxdzajL2-tgta3QMv8eJLNcC6EkDUqMYBgnuce9Duk5l4BBy9FkG

22-11-0 0-10-8 22-0-8

Scale = 1:38.1



22-0-8 22-0-8								
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.21	DEFL. Vert(LL)	in (loc) 0.01 15	l/defl n/r	L/d 120	PLATES MT20	GRIP 197/144
TCDL 10.0 BCLL 0.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.12 WB 0.04	Vert(CT) Horz(CT)	0.01 15 0.00 14	n/r n/a	120 120 n/a	WIIZO	1377144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	11012(01)	0.00 14	Π/α	11/4	Weight: 82 lb	FT = 20%

LUMBER-BRACING-

11-0-4

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

REACTIONS. All bearings 22-0-8.

Max Horz 2=70(LC 16) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 23, 24, 26, 20, 19, 18, 17, 14 except 27=-114(LC 12),

16=-114(LC 13)

All reactions 250 lb or less at joint(s) 2, 21, 22, 23, 24, 26, 20, 19, 18, 17, 14 except 27=420(LC Max Grav 25), 16=420(LC 26)

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

WEBS 3-27=-305/171, 13-16=-305/171

NOTES-

0-10-8

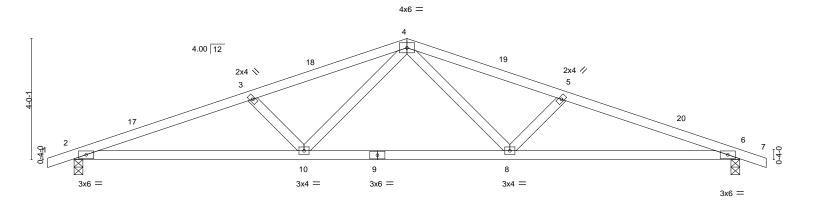
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 11-0-4, Corner(3R) 11-0-4 to 14-0-4, Exterior(2N) 14-0-4 to 22-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 22, 23, 24, 26, 20, 19, 18, 17, 14 except (it=lb) 27=114, 16=114.
- 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.





Job Truss Truss Type Qty Ply C&H/154 Cobey Creek 149242026 3008827 E2 Common Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:46 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:N2YErRAi_NDqpoFerk7lxdzajL2-LtRyGmNXvyRC?mnloSljNa4KmB5yNaZ1zlUdjey9FkF 22-0-8 22-11-0 0-10-8 0-10-8 5-10-15 5-1-5 5-1-5 5-10-15

Scale = 1:38.1



<u> </u>	7-7-6 7-7-6		14-5-2 6-9-13		22-0-8 7-7-6	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.38 BC 0.69 WB 0.16 Matrix-AS	DEFL. in (loc) Vert(LL) -0.12 10 Vert(CT) -0.25 10-13 Horz(CT) 0.06 6	l/defl L/d >999 240 >999 180 n/a n/a	_	GRIP 197/144 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

REACTIONS.

2=0-3-8, 6=0-3-8 (size) Max Horz 2=70(LC 12)

Max Uplift 2=-223(LC 8), 6=-223(LC 9) Max Grav 2=1053(LC 1), 6=1053(LC 1)

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

2-3=-2363/569, 3-4=-2086/510, 4-5=-2086/510, 5-6=-2363/569 TOP CHORD

BOT CHORD 2-10=-478/2213, 8-10=-276/1486, 6-8=-482/2213

WEBS 4-8=-125/661, 5-8=-449/198, 4-10=-125/661, 3-10=-449/198

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-0-4, Exterior(2R) 11-0-4 to 14-0-4, Interior(1) 14-0-4 to 22-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=223 6=223
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





Job Truss Truss Type Qty C&H/154 Cobey Creek 149242027 3008827 V1 Valley

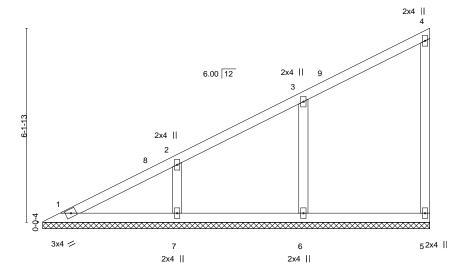
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:47 2021 Page 1 ID:N2YErRAi_NDqpoFerk7lxdzajL2-p3?KU6O9gGZ3cwMUL9GyvndXJbZM624ABPEAG4y9FkE

12-3-10

Scale = 1:36.5



LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.20 BC 0.10	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.08 Matrix-S	Horz(CT) -0.00 5 n/a n/a	Weight: 41 lb FT = 20%

LUMBER-BRACING-

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

2x4 SPF No.2 **OTHERS** 2x4 SPF No.2 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 12-3-2. (lb) -Max Horz 1=240(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 5 except 6=-129(LC 12), 7=-130(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=380(LC 1), 7=381(LC 1)

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

TOP CHORD 1-2=-351/208

WEBS 3-6=-298/224, 2-7=-289/209

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 12-1-14 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) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 6=129 7=130
- 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.





Job Truss Truss Type Qty C&H/154 Cobey Creek 149242028 3008827 V2 Valley

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:48 2021 Page 1 ID:N2YErRAi_NDqpoFerk7lxdzajL2-HFZjhSPnQZhwE4xgvsnBS?Ahs_uyrWmKQ3zkoWy9FkD

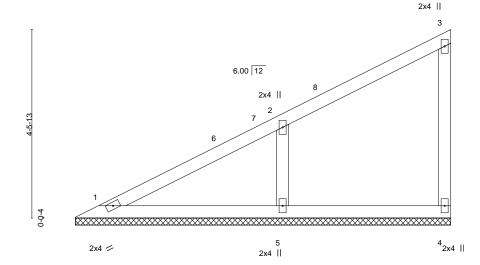
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

8-11-10

Scale = 1:27.4



LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.28	DEFL. in (loc) Vert(LL) n/a -	l/defl L/d n/a 999	PLATES GRIP MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT) n/a -	n/a 999	
BCLL 0.0	Rep Stress Incr YES	WB 0.05	Horz(CT) -0.00 4	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P			Weight: 27 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. (size) 1=8-11-2, 4=8-11-2, 5=8-11-2

Max Horz 1=171(LC 9)

Max Uplift 4=-32(LC 9), 5=-136(LC 12)

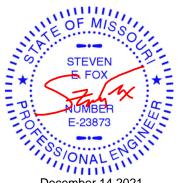
Max Grav 1=152(LC 20), 4=124(LC 1), 5=462(LC 1)

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

1-2=-263/172 TOP CHORD WEBS 2-5=-359/275

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 8-9-14 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) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=136
- 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.





Job Truss Truss Type Qty C&H/154 Cobey Creek 149242029 3008827 V3 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:48 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:N2YErRAi_NDqpoFerk7lxdzajL2-HFZjhSPnQZhwE4xgvsnBS?Ae3_tKrWaKQ3zkoWy9FkD

3

Structural wood sheathing directly applied or 5-7-10 oc purlins,

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

2x4 ||

except end verticals.

Scale = 1:17.5

5-7-10

2x4 || 2 6.00 12 0-0-4

LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.25	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 15 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

> 1=5-7-2, 3=5-7-2 (size) Max Horz 1=101(LC 9) Max Uplift 1=-37(LC 12), 3=-62(LC 12) Max Grav 1=219(LC 1), 3=219(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 5-5-14 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) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

2x4 /

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.



Job Truss Truss Type Qty C&H/154 Cobey Creek 149242030 3008827 V4 **GABLE**

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:49 2021 Page 1 ID:N2YErRAi_NDqpoFerk7lxdzajL2-IS75voPPBtpnsEWtTalQ_Ciu1OGSazvTfjjHKzy9FkC

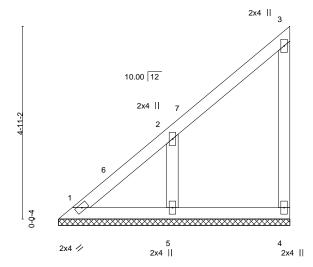
Structural wood sheathing directly applied or 5-10-15 oc purlins,

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

except end verticals.

5-10-15

Scale = 1:29.4



LOADING	\(\(\)		0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0		.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0		.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr Y	ES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI201	14	Matri	x-P						Weight: 22 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. (size) 1=5-10-15, 4=5-10-15, 5=5-10-15

Max Horz 1=178(LC 9)

Max Uplift 1=-28(LC 8), 4=-52(LC 9), 5=-163(LC 12) Max Grav 1=128(LC 20), 4=120(LC 19), 5=323(LC 19)

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

TOP CHORD 1-2=-406/235 WEBS 2-5=-255/336

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-9-3 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=163
- 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.





Job Truss Truss Type Qty C&H/154 Cobey Creek 149242031 3008827 V5 Valley

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:50 2021 Page 1 ID:N2YErRAi_NDqpoFerk7lxdzajL2-DehT68Q1yAxeTN531HpfXQF0ooauJQ4duNSrsPy9FkB

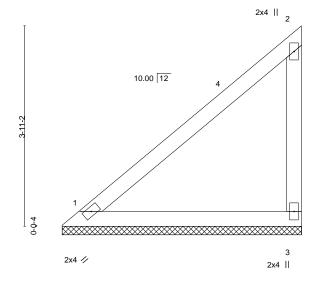
Structural wood sheathing directly applied or 4-8-8 oc purlins,

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

except end verticals.

4-8-8

Scale = 1:22.6



LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.38 BC 0.18	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-P	Horz(CT) 0.00 3 n/a n/a	Weight: 15 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 1=4-8-3, 3=4-8-3 (size) Max Horz 1=138(LC 9)

Max Uplift 1=-12(LC 12), 3=-73(LC 12) Max Grav 1=187(LC 1), 3=211(LC 19)

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

TOP CHORD 2-3=-182/265

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 4-6-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty C&H/154 Cobey Creek 149242032 3008827 V₆ Valley

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

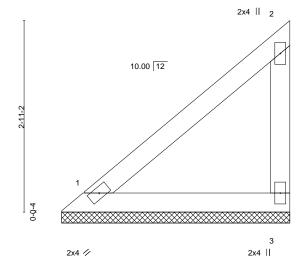
Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 21:28:50 2021 Page 1 ID:N2YErRAi_NDqpoFerk7lxdzajL2-DehT68Q1yAxeTN531HpfXQF3hobKJQ4duNSrsPy9FkB

Structural wood sheathing directly applied or 3-6-2 oc purlins,

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

except end verticals.

Scale = 1:17.6



LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.19	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999	PLATES GRIP MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) n/a - n/a 999	101/111
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 11 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

> 1=3-5-13, 3=3-5-13 (size) Max Horz 1=98(LC 9)

Max Uplift 1=-9(LC 12), 3=-52(LC 12)

Max Grav 1=133(LC 1), 3=150(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



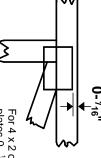


Symbols

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



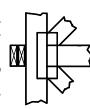
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

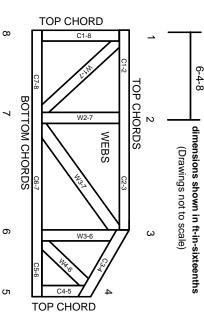
Min size shown is for crushing only

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

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable 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.