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

Re: 3010269

SUMMIT/COBEY CREEK #20/MO

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

Pages or sheets covered by this seal: I49212001 thru I49212038

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

Missouri COA: Engineering 001193



December 13,2021

Johnson, Andrew

,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.

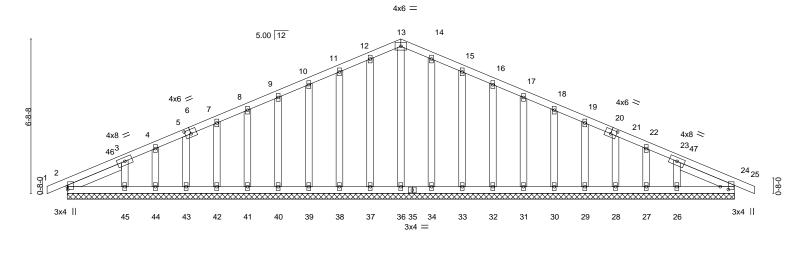
Job Truss Truss Type Qty Ply SUMMIT/COBEY CREEK #20/MO 149212001 3010269 **GABLE** A1 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:07:46 2021 Page 1 ID:1zVRNWWnEPEq?rF7Ww3OAEzc42b-3DwBYEm2EYfSlHioYGsGAfv89vu1mXpNYholYwyALTh

29-0-0

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

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

Scale = 1:50.1



[2:0-1-8,0-0-3], [6:0-3-0,0-2-4], [20:0-3-0,0-2-4], [24:0-1-8,0-4-3] Plate Offsets (X,Y)--LOADING (psf) SPACING-2-0-0 DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) -0.00 24 n/r 120 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) -0.00 24 120 n/r WB **BCLL** 0.0 Rep Stress Incr YES 0.08 Horz(CT) 0.00 24 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Weight: 154 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

29-0-0 29-0-0

LUMBER-

-0-10-8 0-10-8

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

OTHERS SLIDER Left 2x4 SPF No.2 2-6-14, Right 2x4 SPF No.2 2-6-14

REACTIONS. All bearings 29-0-0.

(lb) -Max Horz 2=-113(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 2, 37, 38, 39, 40, 41, 42, 43, 44, 45, 34, 33, 32, 31, 30, 29,

28, 27, 24, 26

All reactions 250 lb or less at joint(s) 2, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 34, 33, 32, 31, Max Grav

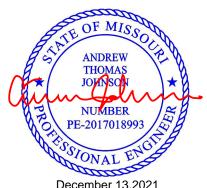
30, 29, 28, 27, 24, 26

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

14-6-0 14-6-0

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 14-6-0, Corner(3R) 14-6-0 to 17-6-0, Exterior(2N) 17-6-0 to 29-10-8 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.
- 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, 37, 38, 39, 40, 41, 42, 43, 44, 45, 34, 33, 32, 31, 30, 29, 28, 27, 24, 26.
- 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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	Job	Truss	Truss Type	Qty	Ply	SUMMIT/COBEY CREEK #20/N	10	
								149212002
	3010269	A2	Common	6	1			
						Job Reference (optional)		
Builders FirstSource (Valley Center), Valley Center, KS - 67147,		S - 67147,	3	3.430 s Aug	g 16 2021 MiTek Industries, Inc. F	ri Dec 10 14:07:49 202	1 Page 1	
			ID:1z'	VRNWWnEPEq?rF	7Ww3OAE	zc42b-UocKAGpxXT11ckRMDO	PznHXVE6kXzsopEf1P9	FyALTe
	-ρ-10-8	7-4-12	14-6-0		21-7-4	1	29-0-0	29-10-8
	0-10-8	7-4-12	7-1-4		7-1-4		7-4-12	0-10-8

Scale = 1:49.3

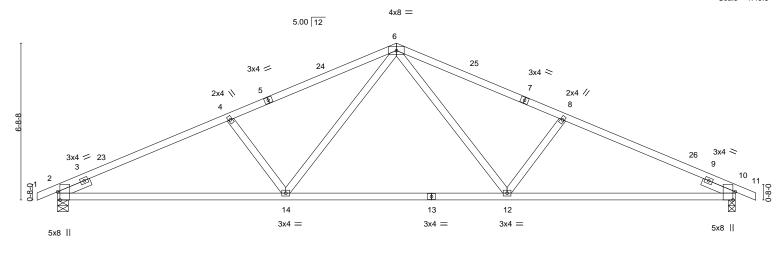


Plate Off	fsets (X,Y)	[2:0-4-3,Edge], [10:0-4-3	,Edge]								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.35 12-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.81 12-14	>427	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.10 10	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-AS	, ,				Weight: 101 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

19-2-13

9-5-11

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

10-13: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

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

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

Max Horz 2=-113(LC 13)

Max Uplift 2=-240(LC 12), 10=-240(LC 13) Max Grav 2=1366(LC 1), 10=1366(LC 1)

9-9-3

9-9-3

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

TOP CHORD 2-4=-2448/423, 4-6=-2176/413, 6-8=-2197/409, 8-10=-2468/418

BOT CHORD 2-14=-413/2188, 12-14=-160/1506, 10-12=-309/2205

WEBS 6-12=-160/753, 8-12=-496/263, 6-14=-167/724, 4-14=-500/262

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 14-6-0, Exterior(2R) 14-6-0 to 17-6-0, Interior(1) 17-6-0 to 29-10-8 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=240, 10=240.
- 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.



29-0-0

9-9-3

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

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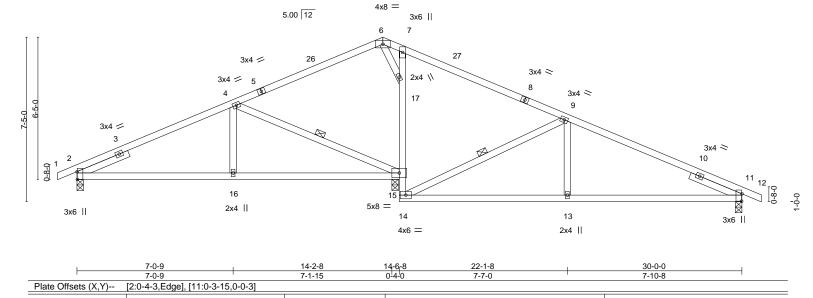
SUMMIT/COBEY CREEK #20/MO Job Truss Truss Type Qty Ply 149212003 3010269 A3 **ROOF SPECIAL** 5 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:07:50 2021 Page 1

6-9-1

ID:1zVRNWWnEPEq?rF7Ww3OAEzc42b-y_9iOcpZIn9uEu0Zn5xCKV4hrW97iHFzTJmyhhyALTd

14-6-8 0-8-14 22-1-8 7-7-0 30-0-0 7-10-8

Scale = 1:52.0



BRACING-

TOP CHORD

BOT CHORD

WFBS

TCLL 25.0 Plate Grip DOL 1.15 TC 0.58 TCDL 10.0 Lumber DOL 1.15 BC 0.47 WB **BCLL** 0.0 Rep Stress Incr YES 0.30 BCDL 10.0 Code IRC2018/TPI2014 Matrix-AS

2-0-0

CSI.

DEFL. in (loc) I/defI L/d Vert(LL) -0.07 15-16 >999 240 Vert(CT) -0.13 15-16 >999 180 Horz(CT) 0.02 15 n/a n/a

Structural wood sheathing directly applied

4-15. 9-14

Rigid ceiling directly applied.

1 Row at midpt

PLATES GRIP MT20 197/144

> Weight: 115 lb FT = 20%

LUMBER-

LOADING (psf)

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

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

SPACING-

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 11=0-3-8

7-0-9

Max Horz 2=-149(LC 13)

Max Uplift 2=-174(LC 12), 15=-147(LC 13), 11=-188(LC 13) Max Grav 2=723(LC 25), 15=1421(LC 1), 11=716(LC 1)

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

TOP CHORD 2-4=-913/247, 9-11=-760/283

BOT CHORD 2-16=-224/842, 15-16=-224/842, 14-15=-97/467, 15-17=-549/95, 7-17=-378/166,

13-14=-167/785, 11-13=-167/785

WEBS 4-16=0/309, 4-15=-852/259, 9-14=-924/296, 9-13=0/332, 6-17=-340/57

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 13-9-10, Exterior(2R) 13-9-10 to 16-9-10. Interior(1) 16-9-10 to 30-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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=174, 15=147, 11=188.
- 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.



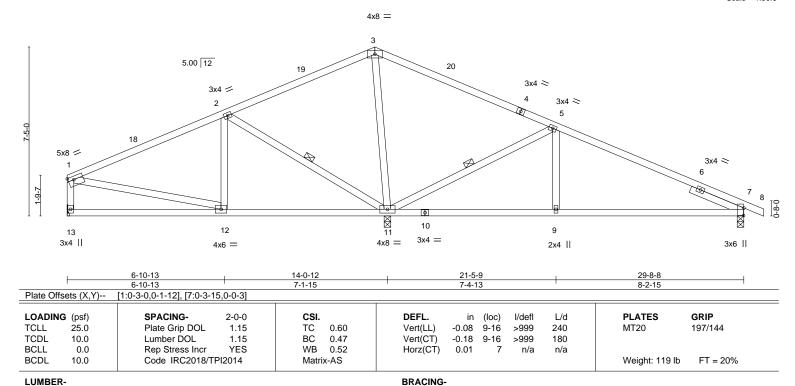
December 13,2021





SUMMIT/COBEY CREEK #20/MO Job Truss Truss Type Qty Ply 149212004 3010269 A4 Common Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:07:51 2021 Page 1 ID:1zVRNWWnEPEq?rF7Ww3OAEzc42b-QBj4bxqB24lls2alLpSRsidsHwUQRg96izWVD7yALTc 6-10-13 30-7-0 0-10-8 6-10-13 8-2-15

Scale = 1:50.6



TOP CHORD

BOT CHORD

WFBS

LUMBER-

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

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

REACTIONS.

(size) 13=Mechanical, 11=0-3-8, 7=0-3-8

Max Horz 13=-133(LC 17)

Max Uplift 13=-119(LC 12), 11=-172(LC 12), 7=-187(LC 13) Max Grav 13=556(LC 25), 11=1484(LC 1), 7=719(LC 26)

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

TOP CHORD 1-2=-604/149, 3-5=-18/257, 5-7=-818/269, 1-13=-492/144

BOT CHORD 11-12=-131/483, 9-11=-148/755, 7-9=-148/755

WEBS 2-11=-670/226, 3-11=-576/101, 5-11=-954/310, 5-9=0/325, 1-12=-47/363

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 3-1-12, Interior(1) 3-1-12 to 13-6-2, Exterior(2R) 13-6-2 to 16-6-2 , Interior(1) 16-6-2 to 30-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) except (jt=lb) 13=119, 11=172, 7=187.
- 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.

2-11. 5-11

Rigid ceiling directly applied.

1 Row at midpt

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SUMMIT/COBEY CREEK #20/MO Job Truss Truss Type Qty Ply 149212005 3010269 **ROOF SPECIAL** 4 A5 Job Reference (optional)

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:07:52 2021 Page 1 ID:1zVRNWWnEPEq?rF7Ww3OAEzc42b-uNHSpHrppOQbTC9xuWzgPw90pKnFA2gGwdF3mayALTb

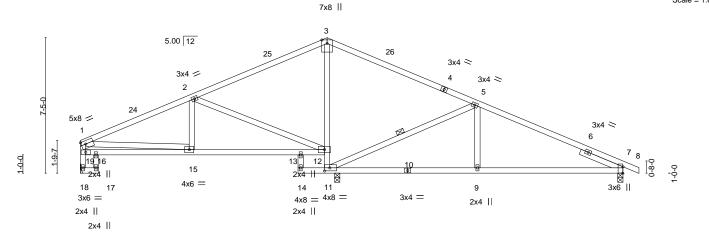
Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

1 Row at midpt

11-11-0 13-6-2 18-9-12 21-8-14 24-1-6 29-8-8 5-9-12 2-11-2 2-4-8

Scale = 1:63.1



1-0-0 ₁	6-1-4	11-11-0	14-0-12	21-8-14	29-8-8
1-0-0 ^l	5-1-4	5-9-12	2-1-12	7-8-2	7-11-10

BRACING-

TOP CHORD

BOT CHORD

WFBS

			,,						
LOADING ((psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL 1.15	TC 0.68	Vert(LL) -0.28	9-11	>697	240	MT20	197/144
TCDL '	10.0	Lumber DOL 1.15	BC 0.69	Vert(CT) -0.55	9-11	>355	180		
BCLL	0.0	Rep Stress Incr YES	WB 0.88	Horz(CT) 0.04	11	n/a	n/a		
BCDL '	10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 120 lb	FT = 20%

LUMBER-

WFBS

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

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

REACTIONS. (size) 11=0-3-8, 7=0-3-8, 18=Mechanical

Max Horz 18=-133(LC 17)

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

Max Uplift 11=-126(LC 12), 7=-234(LC 13), 18=-141(LC 12)

Max Grav 11=1438(LC 1), 7=754(LC 26), 18=556(LC 25)

FORCES. (lb) - Max, Comp./Max, Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-813/255, 2-3=-77/262, 5-7=-870/380, 18-19=-525/172, 1-19=-493/169

BOT CHORD 16-19=-181/463, 15-16=-181/463, 13-15=-244/689, 12-13=-244/689, 9-11=-257/890,

7-9=-257/890

WEBS 11-12=-817/188, 3-12=-565/62, 2-12=-794/283, 5-9=0/350, 5-11=-1018/315,

1-15=-268/380

- 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 3-1-12, Interior(1) 3-1-12 to 13-6-2, Exterior(2R) 13-6-2 to 16-6-2 , Interior(1) 16-6-2 to 30-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) The Fabrication Tolerance at joint 3 = 8%
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=126, 7=234, 18=141.
- 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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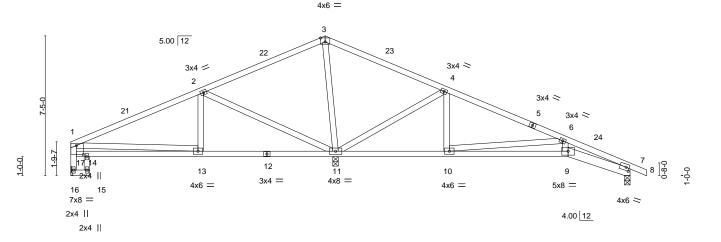
Job Truss Truss Type Qty Ply SUMMIT/COBEY CREEK #20/MO 149212006 3010269 **ROOF SPECIAL** 2 A6 Job Reference (optional)

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

6-10-13

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:07:53 2021 Page 1 ID:1zVRNWWnEPEq?rF7Ww3OAEzc42b-MZrr0dsRaiYS5Mk8SEUvy7iBhjASvThP9H?cl0yALTa 19-11-9 26-5-0 29-8-8 6-7-5 6-5-7 3-3-8

Scale = 1:61.2



	1-0-0	6-10-13	14-0-12	19-11-9	26-5-0	29-8-8
	1-0-0	5-10-13	7-1-15	5-10-13	6-5-7	3-3-8
Plate Offsets (X,Y)	[3:0-3	3-0,0-2-8], [7:0-2-0,0-2-0], [1	17:0-4-8,0-5-12]			

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) -0.18 11-13 >916 240	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.50 WB 0.96	Vert(CT) -0.36 11-13 >461 180 Horz(CT) 0.05 7 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	11012(01) 0.00 / 11/4 11/4	Weight: 122 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

7-9: 2x6 SPF No.2 WFBS 2x4 SPF No.2

REACTIONS.

(size) 11=0-3-8, 16=Mechanical, 7=0-3-8

Max Horz 16=-133(LC 17)

Max Uplift 11=-331(LC 13), 16=-133(LC 26), 7=-98(LC 13) Max Grav 11=2166(LC 1), 16=398(LC 25), 7=399(LC 26)

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

TOP CHORD 1-2=-433/539, 2-3=-135/1063, 3-4=-177/1183, 4-6=-30/367, 6-7=-1176/266,

16-17=-378/142, 1-17=-345/182

BOT CHORD $14-17 = -220/455,\ 13-14 = -220/455,\ 11-13 = -471/328,\ 10-11 = -258/138,\ 9-10 = -215/1025,$ 7-9=-211/1098

2-13=0/334, 2-11=-886/269, 3-11=-1217/225, 4-11=-906/289, 4-10=-2/332,

6-10=-1209/356, 6-9=0/335, 1-13=-554/104

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-6-2, Exterior(2R) 13-6-2 to 16-6-2 , Interior(1) 16-6-2 to 30-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 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 except (jt=lb) 11=331, 16=133.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) 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.

December 13,2021





Job Truss Truss Type Qty Ply SUMMIT/COBEY CREEK #20/MO 149212007 3010269 Α7 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:07:54 2021 Page 1 ID:1zVRNWWnEPEq?rF7Ww3OAEzc42b-qmPDDzs4L?gJjVJK0x?8ULEO?7S9exOZOxkAqSyALTZ 20-1-12 26-5-0 29-8-8

6-3-4

6-3-4

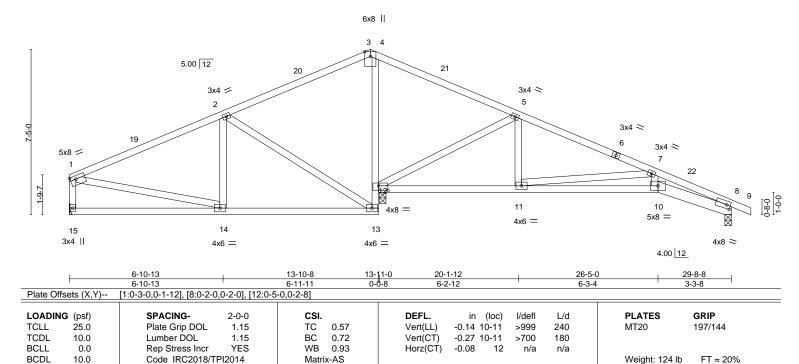
Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

6-7-5

Scale = 1:51.7

3-3-8



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

8-10: 2x6 SPF No.2 WFBS 2x4 SPF No.2

REACTIONS. (size) 15=Mechanical, 12=0-3-8, 8=0-3-8

Max Horz 15=-133(LC 17)

6-10-13 6-10-13

Max Uplift 15=-120(LC 12), 12=-182(LC 13), 8=-170(LC 13) Max Grav 15=502(LC 25), 12=1756(LC 1), 8=594(LC 26)

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

TOP CHORD 1-2=-517/145, 2-3=0/533, 3-4=0/289, 4-5=0/575, 5-7=-514/221, 7-8=-2041/597,

1-15=-441/144

BOT CHORD 13-14=-131/403, 12-13=-92/447, 4-12=-800/99, 11-12=-70/403, 10-11=-505/1791,

8-10=-519/1900

2-14=0/301, 2-13=-756/221, 5-12=-953/286, 5-11=0/392, 7-11=-1402/439, 7-10=-43/428,

1-14=-135/287

NOTES-

WEBS

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-6-2, Exterior(2R) 13-6-2 to 16-6-2 , Interior(1) 16-6-2 to 30-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=120, 12=182, 8=170.
- 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.



December 13,2021



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/TPH 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	SUMMIT/COBEY CREEK #20/MO	
						149212008	
	3010269	A7A	Roof Special	1	1		
						Job Reference (optional)	
Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430		3.430 s Aug	g 16 2021 MiTek Industries, Inc. Fri Dec 10 14:07:55 2021 Page 1				
ID:1zVRNWWnEPEq?rF7Ww3OAEzc42b-JyzbRJti6JoAKfuWaeWN1YnXOXoMNOeidbUjN			AEzc42b-JyzbRJti6JoAKfuWaeWN1YnXOXoMNOeidbUjMvyALTY				

20-5-4

6-3-4

26-8-8

Structural wood sheathing directly applied, except end verticals.

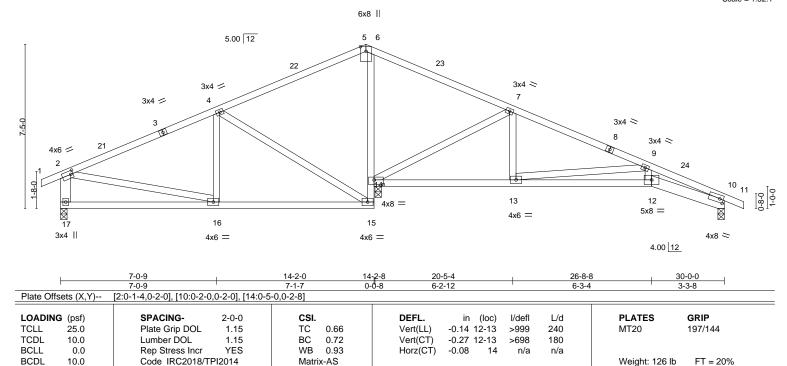
Rigid ceiling directly applied.

13-9-10

6-9-1

Scale = 1:52.1

3-3-8



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

-0-10-8 0-10-8

<u>7-0-9</u>

7-0-9

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

10-12: 2x6 SPF No.2 **WEBS** 2x4 SPF No.2 *Except*

2-17: 2x6 SPF No.2

REACTIONS. (size) 17=0-3-8, 14=0-3-8, 10=0-3-8

Max Horz 17=-124(LC 17)

Max Uplift 17=-147(LC 12), 14=-183(LC 13), 10=-170(LC 13) Max Grav 17=594(LC 25), 14=1756(LC 1), 10=595(LC 26)

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

TOP CHORD 2-4=-564/164, 4-5=0/528, 5-6=0/289, 6-7=0/573, 7-9=-518/222, 9-10=-2046/597,

2-17=-533/183

BOT CHORD 16-17=-153/250, 15-16=-150/442, 14-15=-99/458, 6-14=-787/94, 13-14=-70/406,

12-13=-505/1796, 10-12=-519/1905

WEBS 4-16=0/307, 4-15=-793/243, 7-14=-955/287, 7-13=0/392, 9-13=-1402/439, 9-12=-43/429

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 13-9-10, Exterior(2R) 13-9-10 to 16-9-10, Interior(1) 16-9-10 to 30-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=147, 14=183, 10=170.
- 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.



December 13,2021

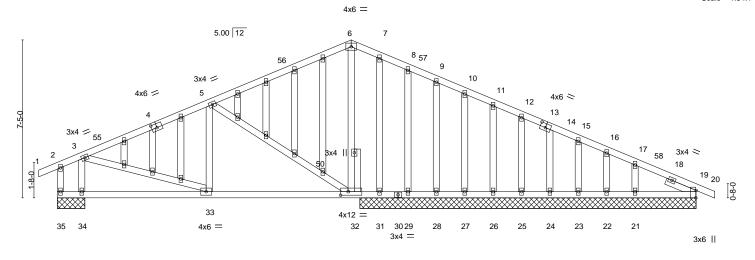


Job Truss Truss Type Qty Ply SUMMIT/COBEY CREEK #20/MO 149212009 3010269 **GABLE** A9 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:07:57 2021 Page 1

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

ID:1zVRNWWnEPEq?rF7Ww3OAEzc42b-FK5Ls?vyew2uaz2vh3Zr6zsurLbdrND?4vzqRnyALTW 21-0-11 27-5-7 30-0-0 30-10-8 2-6-9 0-10-8 13-9-10 6-6-7 7-3-2 6-4-12

Scale = 1:54.1



	6-6-7	13-9-10	19-1-4	27-5-7	30-0-0
	6-6-7	7-3-2	5-3-10	8-4-3	2-6-9
late Offsets ((X,Y) [4:0-3-0,0-2-4], [13:0-3-0,	0-2-4], [19:0-4-3,Edge], [32:0-4-4,0-2-0]			

LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.53	DEFL. in (loc) I/defl L/d Vert(LL) -0.04 32-33 >999 240	PLATES GRIP MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.07 32-33 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.61	Horz(CT) 0.01 19 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 175 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2 WFBS **OTHERS** 2x4 SPF No.2

SLIDER Right 2x4 SPF No.2 1-6-0

REACTIONS. All bearings 15-9-8 except (jt=length) 35=1-3-8, 34=1-3-8.

(lb) - Max Horz 35=-125(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 19, 29, 28, 27, 26, 25, 24, 23, 22 except 35=-198(LC 25),

32=-135(LC 12), 31=-138(LC 25), 21=-103(LC 13), 34=-242(LC 12)

All reactions 250 lb or less at joint(s) 35, 19, 31, 29, 28, 27, 26, 25, 24, 23, 22, 19 except Max Grav

32=833(LC 1), 21=258(LC 1), 34=915(LC 1)

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

TOP CHORD 3-5=-518/139 **BOT CHORD** 32-33=-106/411

WEBS 5-32=-555/205, 6-32=-378/83, 3-33=-59/465, 3-34=-779/281

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 13-9-10, Exterior(2R) 13-9-10 to 16-9-10, Interior(1) 16-9-10 to 30-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 29, 28, 27, 26, 25, 24, 23, 22, 19 except (jt=lb) 35=198, 32=135, 31=138, 21=103, 34=242.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

December 13,2021





Job Truss Truss Type Qty Ply SUMMIT/COBEY CREEK #20/MO 149212010 **GABLE** 3010269 A10 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:07:48 2021 Page 1 ID:1zVRNWWnEPEq?rF7Ww3OAEzc42b-0c2yzwoJm9vA?asAfgukF4?LMiTfENmg0?HrcpyALTf

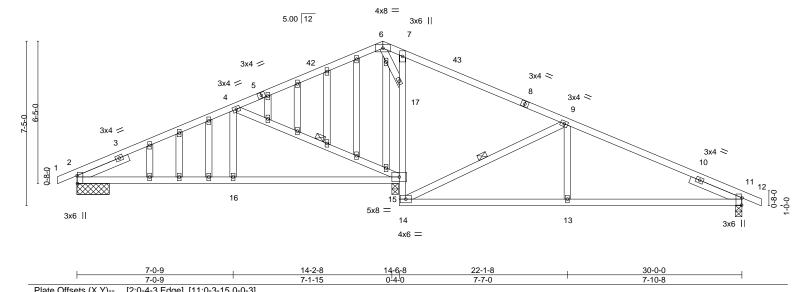
22-1-8 7-7-0

14-6-8 0-8-14

6-9-1

Scale = 1:52.0

30-0-0 7-10-8



riale Offsels (A, I)	[2.0-4-3,Euge], [11.0-3-13,0-0-3]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.58	Vert(LL) -0.07 15-16 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.47	Vert(CT) -0.13 15-16 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.30	Horz(CT) 0.02 15 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 140 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

Structural wood sheathing directly applied.

4-15. 9-14

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

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

2x4 SPF No 2 WFBS **OTHERS** 2x4 SPF No.2

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

REACTIONS.

(size) 2=1-5-8, 15=0-3-8, 11=0-3-8

Max Horz 2=-149(LC 13)

Max Uplift 2=-174(LC 12), 15=-146(LC 13), 11=-188(LC 13) Max Grav 2=722(LC 25), 15=1423(LC 1), 11=715(LC 1)

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

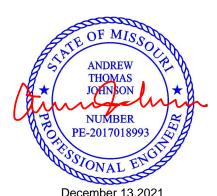
TOP CHORD 2-4=-910/247, 9-11=-759/283

2-16=-224/840, 15-16=-224/840, 14-15=-97/467, 15-17=-550/94, 7-17=-379/166, **BOT CHORD**

13-14=-167/784, 11-13=-167/784

WEBS 4-16=0/309, 4-15=-852/259, 9-14=-924/296, 9-13=0/332, 6-17=-342/56

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-9-10, Exterior(2R) 13-9-10 to 16-9-10, Interior(1) 16-9-10 to 30-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=174, 15=146, 11=188.
- 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.



December 13,2021



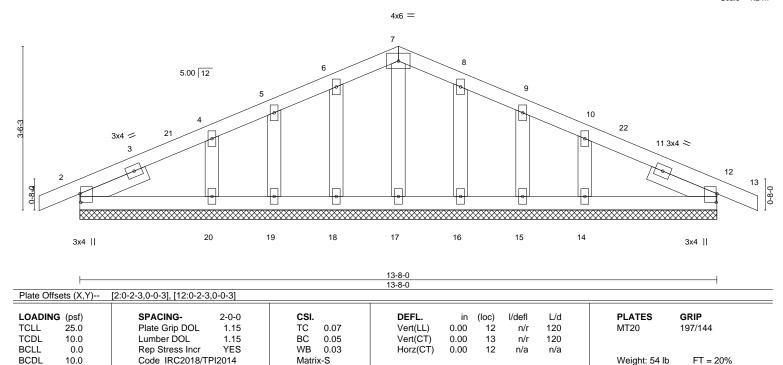


I49212011
140212011
ec 10 14:07:58 2021 Page 1
BPAqk_dazZ8JZiNzEyALTV
14-6-8
0-10-8

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

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

Scale = 1:24.7



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. All bearings 13-8-0.

(lb) -Max Horz 2=57(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 18, 19, 20, 16, 15, 14 Max Grav All reactions 250 lb or less at joint(s) 2, 12, 17, 18, 19, 20, 16, 15, 14

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

NOTES-

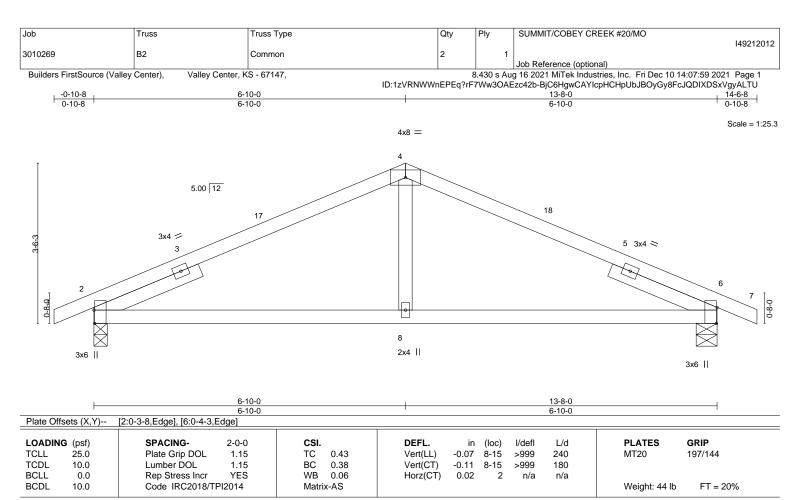
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 6-10-0, Corner(3R) 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 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, 12, 18, 19, 20, 16, 15, 14,
- 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.



December 13,2021







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 2x4 SPF No 2 WFBS

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

REACTIONS.

(size) 2=0-3-8, 6=0-5-8 Max Horz 2=-57(LC 13)

Max Uplift 2=-123(LC 12), 6=-123(LC 13) Max Grav 2=676(LC 1), 6=676(LC 1)

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

TOP CHORD 2-4=-806/312, 4-6=-806/312 **BOT CHORD** 2-8=-175/744, 6-8=-175/744

WEBS 4-8=0/282

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-10-0, Exterior(2R) 6-10-0 to 9-10-0, Interior(1) 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) 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=123, 6=123.
- 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.



December 13,2021



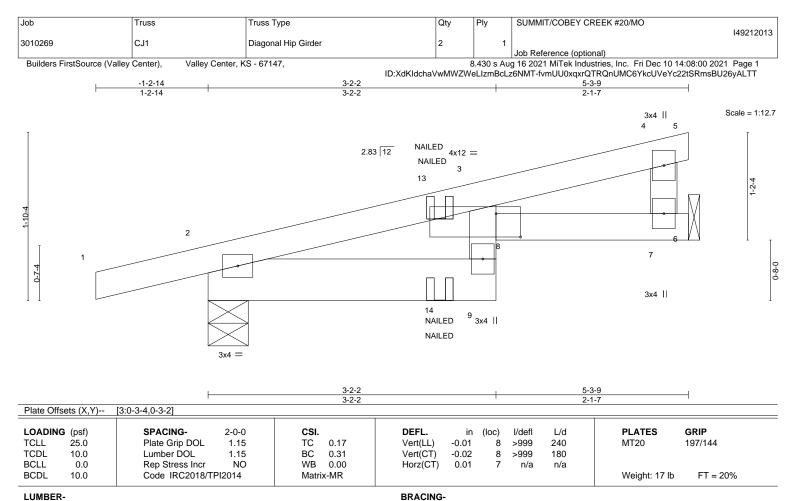
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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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



16023 Swingley Ridge Rd Chesterfield, MO 63017



TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 2-9: 2x6 SPF No.2

WFBS 2x4 SPF No.2

REACTIONS.

(size) 7=Mechanical, 2=0-5-5 Max Horz 2=52(LC 5)

Max Uplift 7=-67(LC 8), 2=-115(LC 4) Max Grav 7=233(LC 1), 2=329(LC 1)

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

TOP CHORD 2-3=-348/92 BOT CHORD 2-9=-102/314

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2=115.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-70, 4-5=-20, 9-10=-20, 6-8=-20

Concentrated Loads (lb) Vert: 14=-12(F=-6, B=-6)

OF MISSO **ANDREW THOMAS** JOHNSON NUMBER PE-2017018993 O STONAL

Structural wood sheathing directly applied or 5-3-9 oc purlins,

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

except end verticals.

December 13,2021

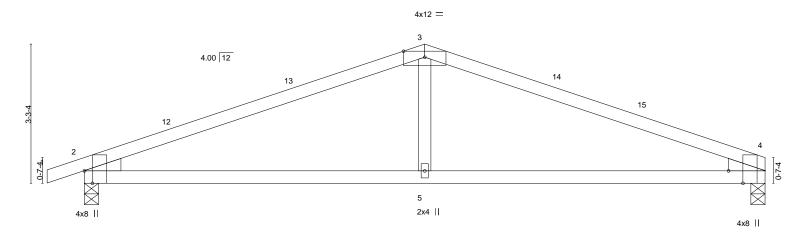




SUMMIT/COBEY CREEK #20/MO Qty 149212014 3010269 D1 Common Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:08:01 2021 Page 1 ID:XdKldchaVwMWZWeLlzmBcLz6NMT-76KsiMyTi9YK2aLgwvdnGp1YwyuZnJYb?Wx1aYyALTS -0-10-8 0-10-8 8-0-0 16-0-0 8-0-0 8-0-0

Ply

Scale = 1:27.1



	8-0-0	16-0-0
	8-0-0	8-0-0
Plate Offsets ((X Y) [2:0-3-8 Edge] [4:0-3-8 Edge]	

	,.,	[======================================			
LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.65	Vert(LL) -0.14 5-11 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.54	Vert(CT) -0.21 5-11 >903 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.03 2 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 44 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

Job

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No 2 2x4 SPF No 2 WFBS

WEDGE

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

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

Max Horz 2=57(LC 16)

Truss

Truss Type

Max Uplift 2=-172(LC 8), 4=-134(LC 9) Max Grav 2=783(LC 1), 4=718(LC 1)

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

2-3=-1245/373, 3-4=-1245/381 TOP CHORD **BOT CHORD** 2-5=-282/1111, 4-5=-282/1111

WEBS 3-5=0/328

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 16-0-0 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=172, 4=134.
- 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.

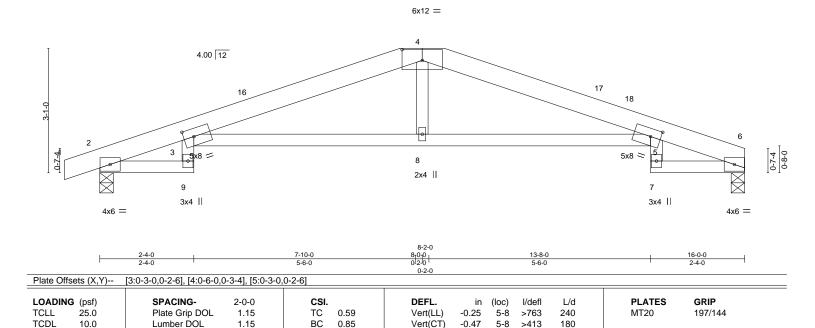


December 13,2021



SUMMIT/COBEY CREEK #20/MO Job Truss Truss Type Qty Ply 149212015 3010269 D2 diH Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:08:01 2021 Page 1 ID:XdKldchaVwMWZWeLlzmBcLz6NMT-76KsiMyTi9YK2aLgwvdnGp1ZtyppnKzb?Wx1aYyALTS

Scale = 1:28.6



Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.28

n/a

Rigid ceiling directly applied.

n/a

Structural wood sheathing directly applied.

Weight: 54 lb

FT = 20%

LUMBER-

BCLL

BCDL

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

2x4 SPF No 2 WFBS

0.0

10.0

REACTIONS.

(size) 6=0-4-0, 2=0-4-0 Max Horz 2=56(LC 16)

Max Uplift 6=-134(LC 9), 2=-172(LC 8) Max Grav 6=718(LC 1), 2=783(LC 1)

Rep Stress Incr

Code IRC2018/TPI2014

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

3-14=-330/125, 3-4=-1740/523, 4-5=-1739/540, 5-6=-334/118 TOP CHORD

BOT CHORD 3-8=-453/1684, 5-8=-453/1683

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 2-2-4, Interior(1) 2-2-4 to 8-0-0, Exterior(2R) 8-0-0 to 12-2-15, Interior(1) 12-2-15 to 16-0-0 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

WB

Matrix-AS

0.05

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

YES

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=134, 2=172.
- 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.



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SUMMIT/COBEY CREEK #20/MO Job Truss Truss Type Qty Plv 149212016 3010269 D3 HIP GIRDER 2 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:08:03 2021 Page 1 ID:XdKldchaVwMWZWeLlzmBcLz6NMT-4USd62zjEmo2luV32KgFME6tMlWbFEktSqQ8eRyALTQ -0-10-8 0-10-8

10-2-0

13-8-0

3-6-0

13-8-0

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

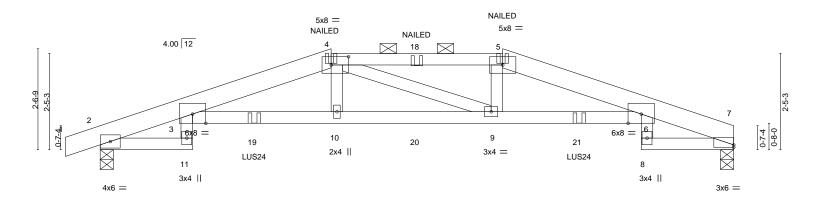
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Scale = 1:29.1

16-0-0

16-0-0



		2-4-0	3-6-0	'		4-4-0				3-6-0	2-4-0)
Plate Off	Plate Offsets (X,Y) [4:0-5-4,0-2-8], [7:0-0-0,0-0-12]											
LOADIN	G (ncf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
	\(\(\frac{1}{2}\)					1	in	(/				
TCLL	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.24	6-9	>801	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.43	6-9	>451	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.27	7	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matrix	-MS						Weight: 112 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

10-2-0

LUMBER-

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

2-4-0

2-4-0

4-5: 2x4 SPF No.2

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

3-6: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

REACTIONS.

(size) 7=0-4-0, 2=0-4-0 Max Horz 2=44(LC 12)

Max Uplift 7=-367(LC 5), 2=-405(LC 4)

Max Grav 7=1387(LC 1), 2=1451(LC 1)

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

3-16=-618/184, 3-4=-4124/1104, 4-5=-4119/1118, 5-6=-4126/1097, 6-7=-621/182 TOP CHORD $3\text{-}11\text{=-}70/296, \ 3\text{-}10\text{=-}1079/4118, \ 9\text{-}10\text{=-}1073/4116, \ 6\text{-}9\text{=-}1047/4121, \ 6\text{-}8\text{=-}69/301}$ **BOT CHORD**

<u>5-10-</u>0

3-6-0

5-10-0

NOTES-

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

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 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=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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=367 2=405
- 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 8-2-8 oc max. starting at 3-10-12 from the left end to 12-1-4 to connect truss(es) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 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) 74 lb down and 28 lb up at 5-10-12, and 74 lb down and 28 lb up at 8-0-0, and 74 lb down and 28 lb up at 10-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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LOAD CASE(S) verified sign 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/COBEY CREEK #20/MO
2040200	Do	LUD CUDDED			149212016
3010269	D3	HIP GIRDER	1	2	Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:08:03 2021 Page 2 ID:XdKldchaVwMWZWeLlzmBcLz6NMT-4USd62zjEmo2luV32KgFME6tMlWbFEktSqQ8eRyALTQ

LOAD CASE(S) Standard

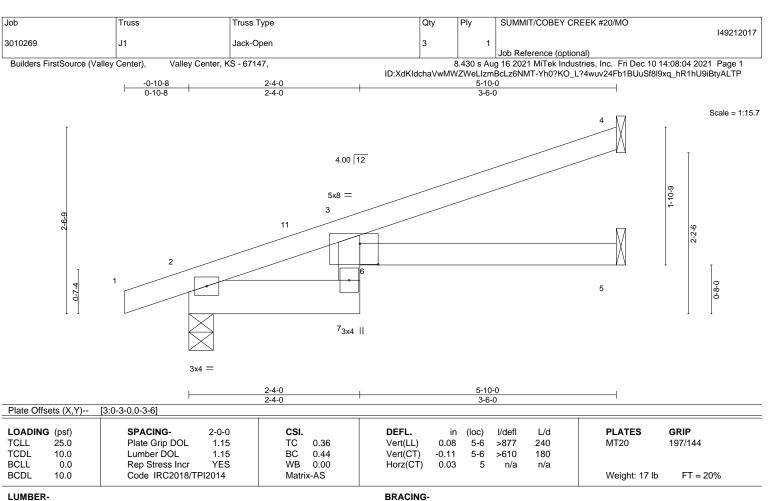
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)
Vert: 1-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 6-7=-70, 11-15=-20, 3-6=-20, 8-12=-20

Concentrated Loads (lb)

Vert: 4=-91(B) 5=-91(B) 10=-74 9=-74 18=-91(B) 19=-421(B) 20=-74 21=-421(B)





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 *Except*

2-7: 2x6 SPF No.2

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

Max Horz 2=94(LC 8)

Max Uplift 4=-65(LC 12), 2=-82(LC 8), 5=-8(LC 12) Max Grav 4=161(LC 1), 2=326(LC 1), 5=100(LC 3)

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

TOP CHORD 2-3=-406/200 **BOT CHORD** 2-7=-296/350

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 2-1-11, Interior(1) 2-1-11 to 5-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) 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.



December 13,2021



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

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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Ply SUMMIT/COBEY CREEK #20/MO 149212018 3010269 J2 2 Jack-Closed Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:08:05 2021 Page 1 ID:XdKldchaVwMWZWeLlzmBcLz6NMT-0tZNXk?zlO2lXCfR9lijRfCHjZHwj6qAw8vFjKyALTO -0-10-8 5-10-0 3-10-0 0-10-8 2-0-0 Scale = 1:14.1 5x8 = NAILED 2x4 5 6 4.00 12 4x6 =3 1-10-9 10 ⁹2x4 || 8 0-7-4 3x6 =Special 2x4 || 3x4 =2-4-0 3-10-0 5-10-0 2-4-0 1-6-0 2-0-0 Plate Offsets (X,Y)--[2:0-1-11,0-1-8], [3:0-1-12,0-2-2] LOADING (psf) SPACING-CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 25.0 Plate Grip DOL 1.15 TC 0.47 Vert(LL) -0.04 11 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.39 Vert(CT) -0.07 >892 180 11 **BCLL** 0.0 Rep Stress Incr NO WB 0.12 Horz(CT) 0.03 8 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-MP Weight: 20 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2-11: 2x6 SPF No.2

WFBS 2x4 SPF No.2

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

Max Horz 2=52(LC 5)

Max Uplift 8=-128(LC 4), 2=-128(LC 4) Max Grav 8=441(LC 1), 2=409(LC 1)

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

TOP CHORD 2-3=-403/106, 3-4=-843/259

BOT CHORD 2-11=-93/308, 9-10=-247/827, 8-9=-230/766

WEBS 4-9=-105/362, 4-8=-855/266

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) 8=128, 2=128.
- 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) 256 lb down and 127 lb up at 3-10-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-70, 4-5=-70, 5-6=-20, 11-12=-20, 7-10=-20 Concentrated Loads (lb)

Vert: 4=-21(F) 9=-256(F)

OF MISSOC **ANDREW THOMAS JOHNSON** NUMBER PE-2017018993

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

except end verticals, and 2-0-0 oc purlins: 4-6.

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

December 13,2021



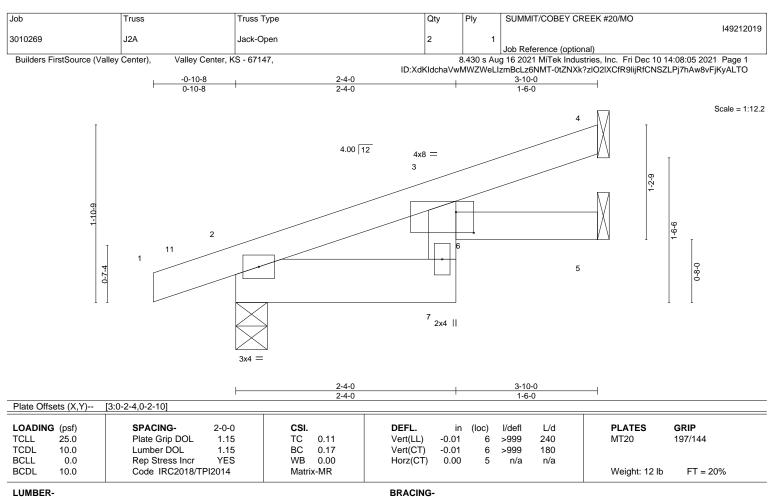
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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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



TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2-7: 2x6 SPF No.2

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

Max Horz 2=67(LC 8)

Max Uplift 4=-35(LC 12), 2=-68(LC 8), 5=-13(LC 12) Max Grav 4=91(LC 1), 2=238(LC 1), 5=72(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-11, Interior(1) 2-1-11 to 3-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 3-10-0 oc purlins.

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

December 13,2021





SUMMIT/COBEY CREEK #20/MO Job Truss Truss Type Qty Ply 149212020 3010269 J3 4 Jack-Open Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:08:06 2021 Page 1 ID:XdKIdchaVwMWZWeLlzmBcLz6NMT-U37ll40bWhAc9LEejSDyztkZ3zj?SaxK8oeoFmyALTN -0-10-8 0-10-8 Scale = 1:8.8 4.00 12 2 -2-4 0-10-1 3x4 = 1-8-15 1-8-15 SPACING-DEFL. **PLATES** GRIP LOADING (psf) 2-0-0 CSI. (loc) I/defl L/d **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) -0.00 >999 240 MT20 197/144

10.0 LUMBER-

TCDL

BCLL

BCDL

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

0.0

BRACING-

Vert(CT)

Horz(CT)

-0.00

0.00

>999

n/a

3

180

n/a

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 1-8-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 6 lb

FT = 20%

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

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

Max Horz 2=39(LC 8)

Max Uplift 3=-18(LC 12), 2=-56(LC 8), 4=-2(LC 12) Max Grav 3=38(LC 1), 2=155(LC 1), 4=34(LC 3)

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

 $1) \ \ Wind: ASCE\ 7-16; \ Vult=115mph\ (3-second\ gust)\ \ Vasd=91mph; \ TCDL=6.0psf; \ BCDL=4.2psf; \ h=25ft; \ Cat.\ II; \ Exp\ C; \ Enclosed; \ Cat.\ II; \ Exp\ C; \ Enclosed; \ Cat.\ II; \ Exp\ C; \ Enclosed; \ Encl$ 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

вс

WB

Matrix-MP

0.02

0.00

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

1.15

YES

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









SUMMIT/COBEY CREEK #20/MO Job Truss Truss Type Qty Ply 149212021 3010269 M1 MONOPITCH SUPPORTED Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:08:06 2021 Page 1

ID:XdKIdchaVwMWZWeLlzmBcLz6NMT-U37II40bWhAc9LEejSDyztkY?ziDSa?K8oeoFmyALTN -0-10-8 0-10-8

Scale = 1:13.0

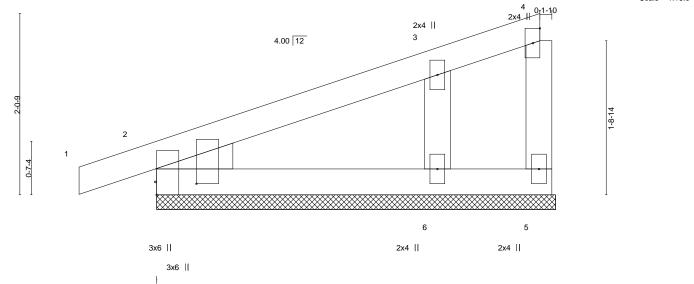


Plate Offsets (X,Y) [2:Edge,0-0-3], [2:0-0-4,0-5-9]										
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP						
TCLL 25.0	Plate Grip DOL 1.15	TC 0.12	Vert(LL) -0.00 1 n/r 120	MT20 197/144						
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) 0.00 1 n/r 120							
BCLL 0.0	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00 5 n/a n/a							
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 15 lb FT = 20%						

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2 WFBS **OTHERS** 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=77(LC 9)

Max Uplift 5=-19(LC 22), 6=-84(LC 12), 2=-57(LC 8) Max Grav 5=12(LC 12), 6=278(LC 1), 2=187(LC 1)

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

WEBS 3-6=-212/343

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 4-3-5 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
- 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 requires continuous bottom chord bearing.
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6, 2.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



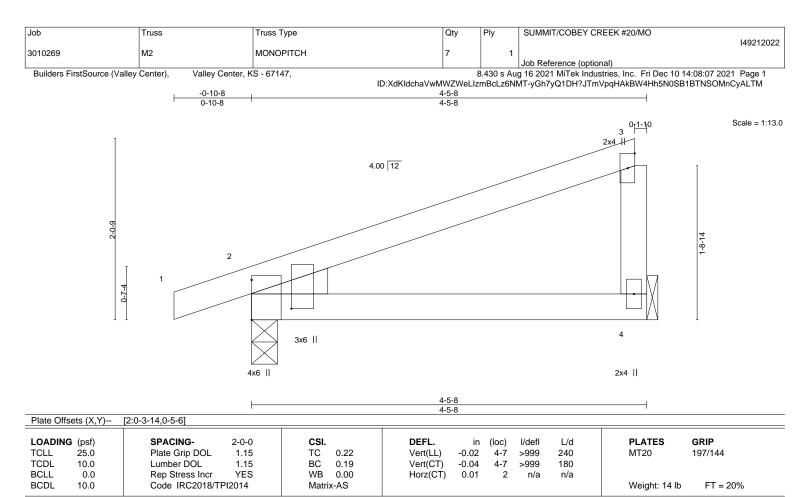
Structural wood sheathing directly applied or 4-5-8 oc purlins,

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

except end verticals.

December 13,2021





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=79(LC 11)

Max Uplift 4=-49(LC 12), 2=-78(LC 8) Max Grav 4=188(LC 1), 2=262(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 4-3-12 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.

December 13,2021





Job	Truss	Truss Type	Qty	Ply	SUMMIT/COBEY CREEK #20/MO
					149212023
3010269	N1	MONOPITCH SUPPORTED	4	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

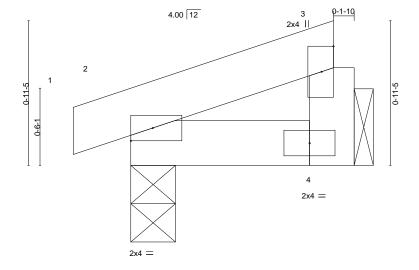
8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:08:08 2021 Page 1 ID:1zVRNWWnEPEq?rF7Ww3OAEzc42b-QSFVAl1s2JRKOfO0qtFQ3lqvzmPVwURcc67vKeyALTL

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

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

except end verticals

Scale = 1:7.5



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 0.02	Vert(LL) -0.00 2 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.01	Vert(CT) -0.00 2 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 4 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 4 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2 WFBS

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

Max Horz 2=26(LC 9)

Max Uplift 2=-30(LC 8), 4=-14(LC 12) Max Grav 2=90(LC 1), 4=51(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) zone; cantilever left 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) 2, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 13,2021





SUMMIT/COBEY CREEK #20/MO Job Truss Truss Type Qty Ply 149212024 3010269 01 MONOPITCH SUPPORTED Job Reference (optional)

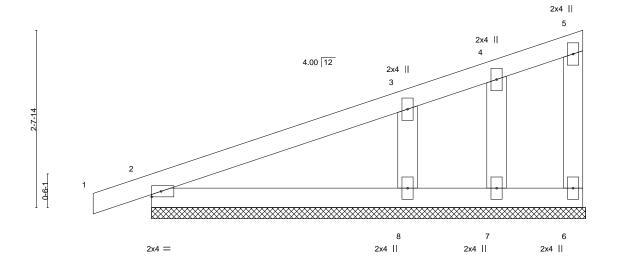
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

-0-10-8 0-10-8

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:08:08 2021 Page 1 ID:1zVRNWWnEPEq?rF7Ww3OAEzc42b-QSFVAl1s2JRKOfO0qtFQ3lqtimOBwTMcc67vKeyALTL

Scale = 1:17.3



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	I/defl	L/d	PLATES GRI	P
TCLL 25.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) -0.00	1	n/r	120	MT20 197	/144
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) 0.00	1	n/r	120		
BCLL 0.0	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 22 lb	FT = 20%

LUMBER-

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

2x4 SPF No 2 WFBS 2x4 SPF No.2 OTHERS

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 6-6-0.

(lb) -Max Horz 2=105(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 except 8=-102(LC 12) Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7 except 8=353(LC 1)

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

WEBS 3-8=-269/392

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 6-3-12 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) 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 requires continuous bottom chord bearing.
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7 except (it=lb) 8=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.



December 13,2021







SUMMIT/COBEY CREEK #20/MO Job Truss Truss Type Qty Ply 149212025 3010269 02 MONOPITCH 2 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:08:10 2021 Page 1

ID:1zVRNWWnEPEq?rF7Ww3OAEzc42b-MrNGaR36awh2dzXPyllu8jvAOa1LOKuv3Qc0OXyALTJ 0-10-8 0-10-8

Scale = 1:18.0

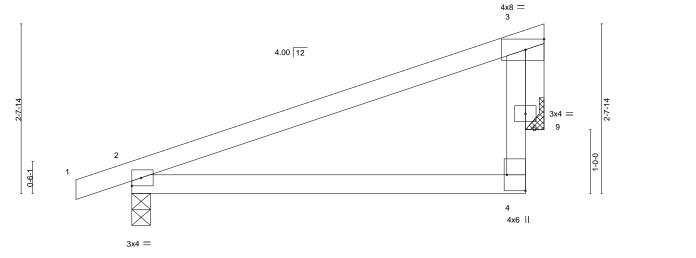


Plate Off	Plate Offsets (X,Y) [4:Edge,0-3-8]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.03	4-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.06	4-8	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-AS						Weight: 20 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2 WFBS **OTHERS** 2x4 SPF No.2

REACTIONS.

(size) 2=0-3-8, 9=Mechanical Max Horz 2=79(LC 8) Max Uplift 2=-89(LC 8), 9=-72(LC 12) Max Grav 2=349(LC 1), 9=254(LC 1)

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

TOP CHORD 2-3=-254/78, 3-5=-268/328

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 6-0-4 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) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
- 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.

December 13,2021



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, rerection 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



16023 Swingley Ridge Rd Chesterfield, MO 63017

SUMMIT/COBEY CREEK #20/MO Job Truss Truss Type Qty Ply 149212026 3010269 О3 MONOPITCH Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:08:11 2021 Page 1 ID:1zVRNWWnEPEq?rF7Ww3OAEzc42b-r1xeon4kLEpvF76bW0p7gwSNr_Oe7pZ3I4MZwzyALTI -0-10-8 0-10-8 Scale = 1:15.4 4x6 =3 4.00 12 0-6-1 43x4 II 2x4 = 5-5-8 5-5-8 SPACING-DEFL. GRIP LOADING (psf) 2-0-0 CSI. (loc) I/defl L/d **PLATES TCLL** 25.0 Plate Grip DOL 1.15 TC 0.24 Vert(LL) -0.01 4-8 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 вс 0.18 Vert(CT) -0.03 4-8 >999 180 WB 0.17 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-AS Weight: 17 lb FT = 20% BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

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

Max Horz 2=67(LC 9)

Max Uplift 2=-83(LC 8), 9=-58(LC 12) Max Grav 2=308(LC 1), 9=205(LC 1)

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

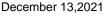
NOTES-

- 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 5-0-4 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 grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
- 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.

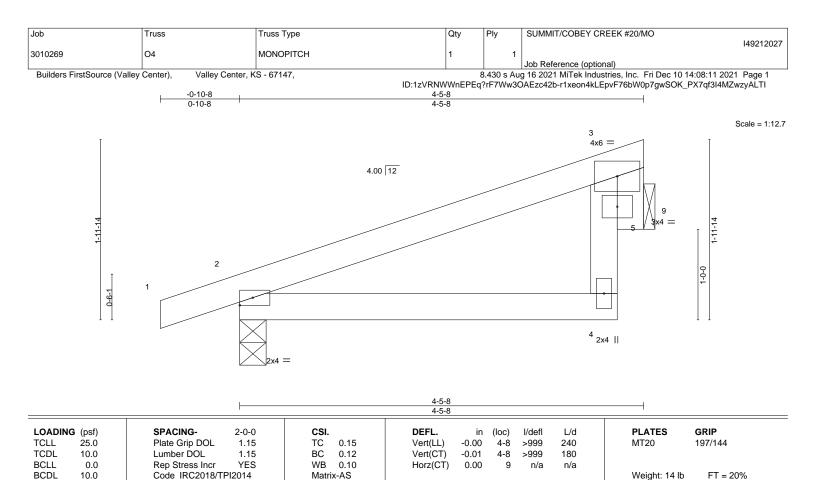
Rigid ceiling directly applied.











BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2 OTHERS

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

Max Horz 2=58(LC 9)

Max Uplift 2=-76(LC 8), 9=-45(LC 12) Max Grav 2=264(LC 1), 9=159(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 4-0-4 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 grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
- 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.

December 13,2021





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

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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

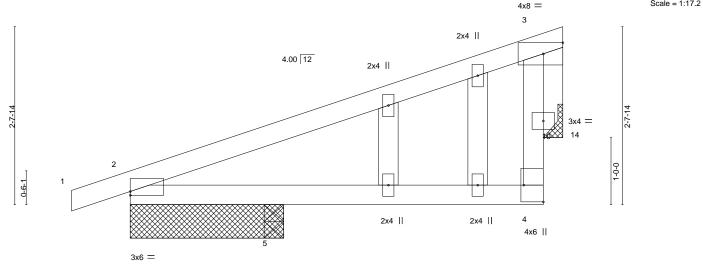
Job Truss Truss Type Qty SUMMIT/COBEY CREEK #20/MO 149212028 3010269 GABLE 05

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

-0-10-8 6-5-8 6-5-8 0-10-8

Scale = 1:17.2



2-3-8 2-3-8

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

LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.28	DEFL. in (loc) I/defl L/d Vert(LL) -0.01 5-13 >999 240	PLATES GRIP MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.28	Vert(CT) -0.01 5-13 >999 180	W1120 197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.22 Matrix-AS	Horz(CT) -0.01 14 n/a n/a	Weight: 23 lb FT = 20%

LUMBER-

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

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

REACTIONS. All bearings 2-3-8 except (jt=length) 5=0-3-8, 14=Mechanical.

(lb) - Max Horz 2=79(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 14 Max Grav All reactions 250 lb or less at joint(s) 2, 5, 2, 14

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

TOP CHORD 3-10=-294/338

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-4 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 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) 2, 5, 2, 14.
- 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.



December 13,2021



SUMMIT/COBEY CREEK #20/MO Job Truss Truss Type Qty Ply 149212029 3010269 06 MONOPITCH 6 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:08:13 2021 Page 1

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

ID:1zVRNWWnEPEq?rF7Ww3OAEzc42b-nP2ODT5_tr3dUQG_dQrbmLXgdn31bheMmOrg?syALTG

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

-0-10-8 0-10-8

Scale = 1:18.0

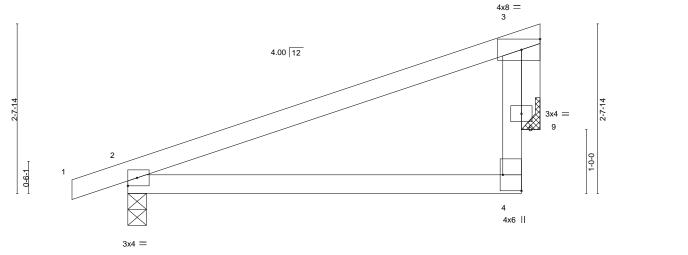


Plate Off	Plate Offsets (X,Y) [4:Edge,0-3-8]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.03	4-8	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.06	4-8	>999	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	2	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2	2014	Matri	x-AS						Weight: 20 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 WFBS **OTHERS** 2x4 SPF No.2

REACTIONS.

(size) 2=0-3-8, 9=Mechanical Max Horz 2=79(LC 8) Max Uplift 2=-89(LC 8), 9=-72(LC 12)

Max Grav 2=349(LC 1), 9=254(LC 1)

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

TOP CHORD 2-3=-254/78, 3-5=-268/328

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 6-0-4 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) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
- 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.



December 13,2021





SUMMIT/COBEY CREEK #20/MO Job Truss Truss Type Qty Ply 149212030 3010269 07 MONOPITCH 4 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:08:13 2021 Page 1

ID:1zVRNWWnEPEq?rF7Ww3OAEzc42b-nP2ODT5_tr3dUQG_dQrbmLXegn1gbgzMmOrg?syALTG

0-10-8

Scale = 1:20.1 5x12 MT20HS = 3 4.00 12 0-6-1 4x6 ||

BRACING-

TOP CHORD

BOT CHORD

Plate Offs	sets (X,Y)	[3:0-8-8,Eage], [4:Eage,0-3-8	5]									
LOADING	· /		0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1	.15	TC	0.47	Vert(LL)	-0.05	4-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1	.15	BC	0.33	Vert(CT)	-0.11	4-8	>817	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr Y	'ES	WB	0.37	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	14	Matri	x-AS						Weight: 23 lb	FT = 20%

LUMBER-

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

WFBS **OTHERS** 2x4 SPF No.2

REACTIONS.

(size) 2=0-3-8, 9=Mechanical Max Horz 2=93(LC 8)

Max Uplift 2=-97(LC 8), 9=-85(LC 12) Max Grav 2=393(LC 1), 9=300(LC 1)

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

3x4 =

TOP CHORD 2-3=-296/86, 3-5=-325/412

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 7-0-4 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) All plates are MT20 plates unless otherwise indicated.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.

December 13,2021



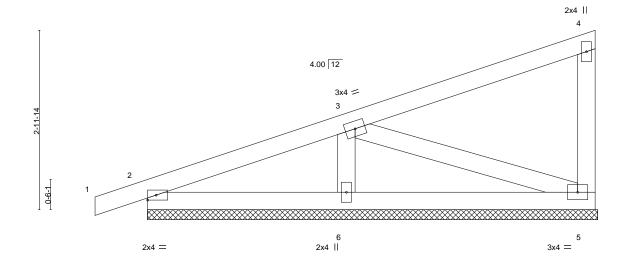


Job	Truss	Truss Type	Qty	Ply	SUMMIT/COBEY CREEK #20/MO
3010269	08	GABLE	1	1	[4921203

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:08:14 2021 Page 1 ID:1zVRNWWnEPEq?rF7Ww3OAEzc42b-FccnQp6ce9BU6arAB8MqIZ4tBBQiKAoV_2aDXIyALTF -0-10-8 0-10-8 7-5-8 7-5-8

Scale = 1:19.2



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 0.23	Vert(LL) -0.00 1 n/r 120	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) 0.00 1 n/r 120	
BCLL 0.0	Rep Stress Incr YES	WB 0.14	Horz(CT) -0.01 5 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 27 lb FT = 20%

BOT CHORD

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

BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 WFBS

2x4 SPF No 2 OTHERS

REACTIONS. (size) 5=7-6-0, 2=7-6-0, 6=7-6-0

Max Horz 2=119(LC 9)

Max Uplift 5=-101(LC 12), 2=-126(LC 8)

Max Grav 5=284(LC 1), 2=344(LC 1), 6=184(LC 3)

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

TOP CHORD 2-3=-477/451

BOT CHORD 2-6=-585/410, 5-6=-585/410

WFBS 3-5=-434/583

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 7-3-12 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) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=101, 2=126,
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

Rigid ceiling directly applied or 7-9-2 oc bracing.

except end verticals

December 13,2021





SUMMIT/COBEY CREEK #20/MO Job Truss Truss Type Qty Ply 149212032 3010269 09 MONOPITCH Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:08:14 2021 Page 1 ID:1zVRNWWnEPEq?rF7Ww3OAEzc42b-FccnQp6ce9BU6arAB8MqIZ4uFBQ2KCcV_2aDXIyALTF 0-10-8 Scale = 1:12.8 2x4 || 4.00 12 3x4 = 0-8-1 2x4 || 6 3x4 || 3-11-8 Plate Offsets (X,Y)--[2:Edge,0-0-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.17 Vert(LL) -0.01 7-10 >999 240 MT20 197/144

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.02

0.01

7-10

>999

n/a

180

n/a

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

Structural wood sheathing directly applied or 3-11-8 oc purlins.

Weight: 14 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

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

10.0

0.0

10.0

SLIDER Left 2x4 SPF No.2 1-6-0

REACTIONS.

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

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

Max Horz 2=69(LC 8)

Max Uplift 2=-63(LC 8), 7=-55(LC 12) Max Grav 2=234(LC 1), 7=170(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 3-11-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate

BC

WB

Matrix-MP

0.13

0.02

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

1.15

YES

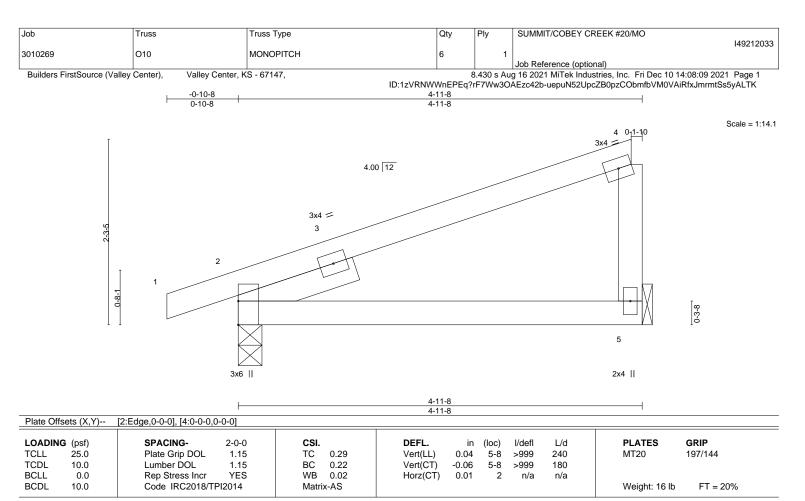
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 13,2021







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 2x4 SPF No 2 WFBS

SLIDER Left 2x4 SPF No.2 1-6-0

REACTIONS.

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

Max Horz 2=81(LC 8)

Max Uplift 2=-73(LC 8), 5=-62(LC 12) Max Grav 2=283(LC 1), 5=209(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 4-9-5 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.



December 13,2021





SUMMIT/COBEY CREEK #20/MO Job Truss Truss Type Qty Ply 149212034 3010269 011 MONOPITCH SUPPORTED Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:08:09 2021 Page 1

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

ID:1zVRNWWnEPEq?rF7Ww3OAEzc42b-uepuN52UpcZB0pzCObmfbVM2MAkZfwemrmtSs5yALTK -0-10-8 0-10-8

Scale = 1:14.1 0-1-10 5 2x4_# 2x4 || 4.00 12 3x4 = 30-8-1 6 3x4 || 2x4 || 2x4 ||

Plate Off	sets (X,Y)	[2:Edge,0-0-0]										
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	0.18	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-P						Weight: 19 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No 2 WFBS **OTHERS** 2x4 SPF No.2

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

REACTIONS. (size) 6=5-0-0, 2=5-0-0, 7=5-0-0

Max Horz 2=86(LC 9)

Max Uplift 6=-27(LC 3), 2=-62(LC 8), 7=-87(LC 12) Max Grav 6=11(LC 12), 2=211(LC 1), 7=306(LC 1)

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

WFBS 4-7=-228/376

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 requires continuous bottom chord bearing.
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 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.



Structural wood sheathing directly applied or 4-11-8 oc purlins,

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

except end verticals.

December 13,2021







Job Truss Truss Type Qty Ply SUMMIT/COBEY CREEK #20/MO 149212035 3010269 S1 Roof Special Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:08:16 2021 Page 1

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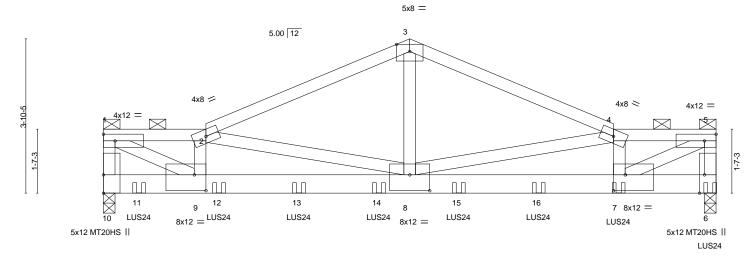
2-6-13

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (2-9-5 max.): 1-2, 4-5.

Rigid ceiling directly applied or 9-6-13 oc bracing.

Scale = 1:28.8



2-6-13 5-1-3 2-6-13 5-1-3

BRACING-

TOP CHORD

BOT CHORD

Plate	Olisets (X,Y)	[6:0-5-8,Edge], [7:0-3-8,0	J-4-12], [8:U-6-	0,0-4-12], [9:	0-3-8,0-4-12	<u> </u>							
LOAD	DING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.13	8-9	>999	240	MT20	197/144	
TCDL	_ 10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.22	8-9	>822	180	MT20HS	148/108	
BCLL	. 0.0	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.03	6	n/a	n/a			
BCDL	_ 10.0	Code IRC2018/T	PI2014	Matri	x-MS						Weight: 70 lb	FT = 20%	

LUMBER-TOP CHORD 2x4 SPF No.2

BOT CHORD 2x6 SPF 2100F 1.8F

2x4 SPF No.2 *Except* WFBS 1-9,5-7: 2x4 SPF 1650F 1.5E

REACTIONS. (size) 10=0-3-8, 6=0-3-8

Max Horz 10=41(LC 5) Max Uplift 10=-652(LC 8), 6=-639(LC 9) Max Grav 10=2679(LC 1), 6=2605(LC 1)

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

TOP CHORD 1-10=-2254/561, 1-2=-3982/975, 2-3=-3327/816, 3-4=-3328/816, 4-5=-3498/845,

5-6=-1994/490

BOT CHORD 8-9=-1024/4110, 7-8=-901/3642

WEBS 1-9=-1075/4350, 2-9=-1165/318, 2-8=-1192/345, 3-8=-517/2197, 4-8=-709/360,

4-7=-1302/355, 5-7=-937/3838

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=652, 6=639.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-3-8 oc max. starting at 0-10-12 from the left end to 15-2-4 to connect truss(es) to back face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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, 4-5=-70, 6-10=-20



December 13,2021



Job	Truss	Truss Type	Qty	Ply	SUMMIT/COBEY CREEK #20/MO
					I49212035
3010269	S1	Roof Special Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:08:16 2021 Page 2 ID:1zVRNWWnEPEq?rF7Ww3OAEzc42b-B_kXrV7tAmRCMu?ZIZOIN_92o?_boxNoSM3KcByALTD

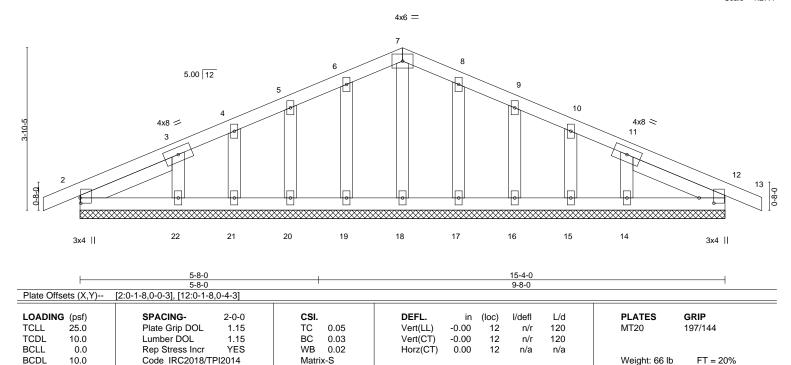
LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 6=-489(B) 7=-378(B) 11=-539(B) 12=-536(B) 13=-536(B) 14=-536(B) 15=-536(B) 16=-378(B)

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type		Qty	Ply	SUMMIT/COBEY CREEK #20/MO	
							I49212036
3010269	S2	GABLE		1	1		
						Job Reference (optional)	
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		8	3.430 s Aug	g 16 2021 MiTek Industries, Inc. Fri Dec 10 14:08:17 20:	21 Page 1
, ,			ID:1z	VRNWWnEPEq?	rF7Ww3O	AEzc42b-fBlv2q8Vx4Z2z2alsGwXwBhRMPTLXZKxg0pu	J8dyALTC
₁ -0-10-8 ₁	5-8-0		7-8-0	•		15-4-0	16-2-8
0-10-8	5-8-0		2-0-0			7-8-0	0-10-8

Scale = 1:27.4



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

OTHERS

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

SLIDER Left 2x4 SPF No.2 2-4-11, Right 2x4 SPF No.2 2-4-11

REACTIONS. All bearings 15-4-0.

(lb) -Max Horz 2=63(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 19, 20, 21, 22, 17, 16, 15, 14 Max Grav All reactions 250 lb or less at joint(s) 2, 12, 18, 19, 20, 21, 22, 17, 16, 15, 14

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-4-0, Exterior(2N) 2-4-0 to 7-8-0, Corner(3R) 7-8-0 to 10-8-0, Exterior(2N) 10-8-0 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) 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.
- 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, 12, 19, 20, 21, 22. 17. 16. 15. 14.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

December 13,2021





Job Truss Truss Type Qty Ply SUMMIT/COBEY CREEK #20/MO 149212037 3010269 V1 Valley Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:08:18 2021 Page 1 ID:XdKldchaVwMWZWeLlzmBcLz6NMT-7NsHGA97iNhvbB9xQ_RmTPEaWoonG0v5vgYRg3yALTB Scale = 1:9.4 2 2x4 || 4.00 12 7-0-6

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 0.15	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.08	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: 9 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

WFBS

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

REACTIONS. (size) 1=3-11-4, 3=3-11-4

Max Horz 1=44(LC 9)

Max Uplift 1=-27(LC 8), 3=-33(LC 12) Max Grav 1=131(LC 1), 3=131(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) zone; cantilever left 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

2x4 =

- 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.



2x4

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

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

except end verticals.

December 13,2021





SUMMIT/COBEY CREEK #20/MO Job Truss Truss Type Qty Ply 149212038 3010269 V3 Valley Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 14:08:18 2021 Page 1 ID:1zVRNWWnEPEq?rF7Ww3OAEzc42b-7NsHGA97iNhvbB9xQ_RmTPEb2omJG0v5vgYRg3yALTB Scale = 1:11.4 3x4 =2 5.00 12 3 0-0-4 2x4 = 2x4 < 0-0-10 0-0-10 6-2-6 6-1-13 Plate Offsets (X,Y)--[2:0-2-0,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.11 Vert(LL) n/a n/a 999 MT20 197/144 TCDL Lumber DOL Vert(CT) 10.0 1.15 BC 0.24 n/a n/a 999 WB 0.00 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 13 lb FT = 20% BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

(size) 1=6-1-3, 3=6-1-3

Max Horz 1=-17(LC 13) Max Uplift 1=-36(LC 12), 3=-36(LC 13) Max Grav 1=211(LC 1), 3=211(LC 1)

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

NOTES-

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



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

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

December 13,2021





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



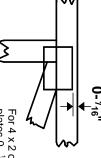
16023 Swingley Ridge Rd Chesterfield, MO 63017

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



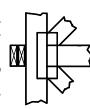
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

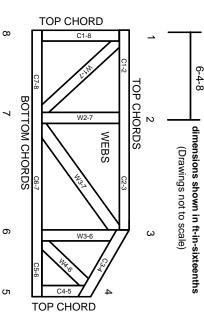
Min size shown is for crushing only

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
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.