



RE: 2991403 Summit/6 Cobey Creek

Site Information:

Customer: Project Name: 2991403 Lot/Block: Address: City:

Model: Subdivision: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7-16 Roof Load: 45.0 psf Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 42 individual, dated Truss Design Drawings and 0 Additional Drawings.

No. 1 2 3 4 5 6 7 8 9 10 11 23 14 15 16	Seal# 148235717 148235718 148235719 148235720 148235721 148235722 148235723 148235724 148235725 148235726 148235726 148235727 148235728 148235729 148235730 148235731 148235732	Truss Name A1 A2 A2A A3 A4 A5 A6 A7 A6 A7 A8 A9 A10 A11 B1 B3 B3 B4 B5	Date 10/7/2021 10/7/2021 10/7/2021 10/7/2021 10/7/2021 10/7/2021 10/7/2021 10/7/2021 10/7/2021 10/7/2021 10/7/2021 10/7/2021 10/7/2021 10/7/2021 10/7/2021	No. 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	Seal# 148235737 148235738 148235739 148235740 148235741 148235742 148235743 148235743 148235744 148235745 148235746 148235746 148235748 148235749 148235750 148235751 148235752	Truss Name C4 C5 G1 G2 PB1 PB3 PB4 PB5 V1 V2 V3 V4 V5 V4 V5 V6 V7 V8	Date 10/7/2021 10/7/2021 10/7/2021 10/7/2021 10/7/2021 10/7/2021 10/7/2021 10/7/2021 10/7/2021 10/7/2021 10/7/2021 10/7/2021 10/7/2021 10/7/2021
14	48235730	B3	10/7/2021	34	48235750	V6	10/7/2021
15	48235731	B4	10/7/2021	35	48235751	V7	10/7/2021
16	48235732	B5	10/7/2021	36	48235752	V8	10/7/2021
17	48235733	B6	10/7/2021	37	48235753	V9	10/7/2021
18	48235734	C1	10/7/2021	38	48235754	V10	10/7/2021
19	48235735	C2	10/7/2021	39	48235755	V11	10/7/2021
20	48235736	C3	10/7/2021	40	48235756	V12	10/7/2021

The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision

based on the parameters provided by Builders FirstSource (Valley Center).

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2021. Missouri COA: 001193

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.



1 of 2

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



RE: 2991403 - Summit/6 Cobey Creek

Site Information:

Proje Lot/B Addre	ct Customer: lock: ess:	Project Name: 29	91403	Subdivision:
City, C	County:			State:
No. 41 42	Seal# I48235757 I48235758	Truss Name V13 V14	Date 10/7/2021 10/7/2021	

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



- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 2-3=-421/241, 3-4=-339/195, 4-5=-321/195, 5-6=-293/184, 6-8=-266/175

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 2-5-11, Exterior(2N) 2-5-11 to 22-3-14, Corner(3R) 22-3-14 to 25-9-4, Exterior(2N) 25-9-4 to 29-3-5, Corner(3R) 29-3-5 to 32-5-4, Exterior(2N) 32-5-4 to 33-2-8 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 30, 44, 45, 47, 48, 49, 50, 51, 52, 53, 54, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31 except (jt=lb) 55=110.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.









BCDL 10	.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 200 lb FT = 20%				
LUMBER-				BRACING-						
TOP CHORD	2x4 SP	F No.2 *Except*		TOP CHORD	Structural wood sheathing directly applied, except end verticals, and					
	6-7: 2x	6 SPF No.2, 1-4: 2x6 SPF 2100F 1.8E			2-0-0 oc purlins (6-0-0 max.)	к.): 6-7.				
BOT CHORD 2x4 SPF No.2 *Except*				BOT CHORD	Rigid ceiling directly applied.					
	3-15: 2	x4 SPF 1650F 1.5E		WEBS	1 Row at midpt 6	6-12, 7-10, 5-14, 4-16				
WEBS	2x4 SP	PF No.2								
OTHERS	2x4 SP	'F No.2								
LBR SCAB	1-4 2x6	SPF 2100F 1.8E one side								
WEDGE										

Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 26=0-3-8 Max Horz 2=296(LC 9) Max Uplift 2=-304(LC 12), 26=-261(LC 12) Max Grav 2=1568(LC 1), 26=1474(LC 1)

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

 TOP CHORD
 3-24=-634/23, 3-4=-3903/805, 4-5=-2580/528, 5-6=-1550/348, 6-7=-654/186, 7-8=-724/181

 BOT CHORD
 3-17=-941/3680, 16-17=-938/3691, 14-16=-537/2290, 13-14=-332/1321, 12-13=-305/1406

WEBS 4-17=0/305, 6-14=-173/888, 6-12=-1086/307, 8-12=-245/1260, 5-14=-1212/373, 5-16=-81/626, 4-16=-1483/438, 8-26=-1480/274

NOTES-

Attached 9-6-11 scab 1 to 4, front face(s) 2x6 SPF 2100F 1.8E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-0-10 from end at joint 1, nail 2 row(s) at 4" o.c. for 4-8-3; starting at 7-4-13 from end at joint 1, nail 2 row(s) at 7" o.c. for 2-0-0.
 Unbalanced roof live loads have been considered for this design.

3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-5-11, Interior(1) 2-5-11 to 22-3-14, Exterior(2R) 22-3-14 to 27-0-12, Interior(1) 27-0-12 to 29-3-5, Exterior(2E) 29-3-5 to 33-0-12 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
 4) Provide adequate drainage to prevent water ponding.

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

6) Bearing at joint(s) 26 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=304, 26=261.

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

9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







1	7-7-5	15-2-8	22-3-14	27-10-8	29-3-5	33-6-0			
Plate Offsets (X,Y)	[2:Edge,0-2-8], [6:0-4-0,0-2-2], [7:0-4-0	,0-2-2], [8:0-6-12,0-0-12],	[12:0-2-8,0-2-8], [15:0-6-	·12,0-2-12], [16:Ed	lge,0-3-8], [17	7:0-3-8,0-2-8]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.61 BC 0.84 WB 0.63 Matrix-AS	DEFL. in Vert(LL) -0.18 Vert(CT) -0.36 Horz(CT) 0.22	(loc) l/defl 14-15 >999 16-17 >999 22 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 182 lb	GRIP 197/144 FT = 20%		
LUMBER- BRACING- TOP CHORD 2x4 SPF No.2 *Except* TOP CHORD 6-7: 2x6 SPF No.2 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2:0-0 oc purlins (6:0-0 max.): 6:7. BOT CHORD 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied. WEBS 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied. WEBS 2x4 SPF No.2 WEBS 1 Row at midpt 5-14, 7-10, 6-12 Uter: 2x4 SPF No.2 Left: 2x4 SPF No.2 Structural wood sheathing directly applied. Structural wood sheathing directly applied.									
REACTIONS. (size) 2=0-3-8, 22=0-3-8 Max Horz 2=294(LC 9) Max Uplift 2=-306(LC 12), 22=-261(LC 12) Max Grav 2=1563(LC 1), 22=1474(LC 1)									
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2926/552, 3-5=-2557/527, 5-6=-1554/348, 6-7=-652/186, 7-8=-722/181 BOT CHORD 2-17=-673/2609, 5-15=-79/588, 14-15=-542/2289, 13-14=-332/1322, 12-13=-306/1394 WEBS 15-17=-643/2433, 3-15=-361/156, 5-14=-1209/379, 6-14=-174/900, 8-12=-246/1257, 6-12=-1090/307, 8-22=-1480/274									
 b-12=-1090/307, 8-22=-1480/274 NOTES- 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-5-11, Interior(1) 2-5-11 to 22-3-14, Exterior(2R) 22-3-14 to 27-0-12, Interior(1) 27-0-12 to 29-3-5, Exterior(2E) 29-3-5 to 33-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding. 									

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=306, 22=261.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.









9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or 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 system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



October 7,2021





	4 11 12 4 11 11 0 0	0 10-1-11	6.2.2	29-3-3						
Dioto Offecto (V.V)	4-11-13 4-11-11 0-0-0	0.0.01	0-2-3	0-11-0	4-2-11					
The Orise (A, F) [2.0 0, Eugo], [1.0 + 0, 0 ⁻² -2], [0.0 ⁻⁴⁺ 0, 0 ⁻² -2]										
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.64 BC 0.78 WB 0.37 Matrix-AS	DEFL. in Vert(LL) -0.35 Vert(CT) -0.70 Horz(CT) -0.10	(loc) l/defi L/d 10-11 >803 240 10-11 >401 180 21 n/a n/a	PLATES GRIP MT20 197/144 Weight: 162 lb FT = 20%					
LUMBER- TOP CHORD 2x4 Si 7-8: 2: BOT CHORD 2x4 Si WEBS 2x4 Si OTHERS 2x4 Si WEDGE Left: 2x4 SPF No.2	PF No.2 *Except* k6 SPF No.2 PF No.2 PF No.2 PF No.2 PF No.2	I	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing dii 2-0-0 oc purlins (6-0-0 max.): Rigid ceiling directly applied. 1 Row at midpt 6	rectly applied, except end verticals, and 7-8. 9-11, 7-11, 8-10					
REACTIONS. (size) 2=0-3-8, 14=0-3-8, 21=0-3-8 Max Horz 2=279(LC 12) Max Uplift 2=-46(LC 12), 14=-367(LC 12), 21=-162(LC 8) Max Grav 2=550(LC 25), 14=1437(LC 1), 21=1051(LC 1)										
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-537/37, 3-5=-300/1, 5-6=-1067/170, 6-7=-942/202, 7-8=-790/219, 10-17=-167/927, 9-17=-167/927 BOT CHORD 2-15=-166/454, 14-15=-104/398, 5-14=-969/290, 13-14=-47/258, 11-13=-221/911, 10-11=-139/425 WEBS 5-13=-203/811, 6-13=-288/134, 8-11=-140/607, 8-10=-897/226, 3-15=-423/191, 9-21=-1056/189										
 NOTES- 1) Unbalanced roof liv 2) Wind: ASCE 7-16; MWFRS (envelope 27-0-12, Interior(1)) right exposed;C-Cf 3) Provide adequate of 4) This truss has beer 5) Bearing at joint(s) 2 capacity of bearing 6) Provide mechanica 14=367, 21=162. 7) This truss is design referenced standaris 8) This truss design re- sheetrock be applie 9) Graphical purlin rep 	e loads have been considered for this de Vult=115mph (3-second gust) Vasd=91m) gable end zone and C-C Exterior(2E) -(27-0-12 to 29-3-5, Exterior(2E) 29-3-5 to or members and forces & MWFRS for re rainage to prevent water ponding. I designed for a 10.0 psf bottom chord liv 1 considers parallel to grain value using surface. I connection (by others) of truss to bearin ed in accordance with the 2018 Internation d ANS/TPI 1. requires that a minimum of 7/16" structura d directly to the bottom chord. resentation does not depict the size or th	ssign. hph; TCDL=6.0psf; BCDL= -10-8 to 2-5-11, Interior(1 33-0-12 zone; cantilever actions shown; Lumber D e load nonconcurrent with ANSI/TPI 1 angle to grain ng plate capable of withsta onal Residential Code sea I wood sheathing be appli- ne orientation of the purlin	=4.2psf; h=25ft; Cat. II; Ex 1) 2-5-11 to 22-3-14, Exter left and right exposed ; er DOL=1.60 plate grip DOL= h any other live loads. n formula. Building design anding 100 lb uplift at joint ctions R502.11.1 and R80 ied directly to the top chor n along the top and/or botto	p C; Enclosed; ior(2R) 22-3-14 to nd vertical left and 1.60 er should verify (s) 2 except (jt=lb) 2.10.2 and d and 1/2" gypsum om chord.	October 7.2021					





L	4-11-13 <u>6</u> -1-0	9-11-8 1	10-ρ-0 16-1-11	22-3-14	29-3-5	33-6-0
I	4-11-13 '1-1-3'	3-10-8	0-0-8 6-1-11 '	6-2-3	6-11-6	4-2-11
Plate Offsets (X,Y)	[2:0-3-8,Edge], [7:0-4-0,0)-2-2], [8:0-4	4-0,0-2-2]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TI	2-0-0 1.15 1.15 YES Pl2014	CSI. TC 0.54 BC 0.84 WB 0.39 Matrix-AS	DEFL. in Vert(LL) -0.40 1 Vert(CT) -0.81 1 Horz(CT) 0.02	(loc) l/defl L/d 0-11 >701 240 0-11 >349 180 10 n/a n/a	PLATES GRIP MT20 197/144 Weight: 160 lb FT = 20%
LUMBER- TOP CHORD 2x4 SF 7-8: 2x BOT CHORD 2x4 SF WEBS 2x4 SF WEDGE Left: 2x4 SPF No.2	PF No.2 *Except* k6 SPF No.2 PF No.2 PF No.2			BRACING- TOP CHORD S BOT CHORD F WEBS 1	Structural wood sheathing direc 2-0-0 oc purlins (6-0-0 max.): 7 Rigid ceiling directly applied. I Row at midpt 7-1	ctly applied, except end verticals, and -8. 1, 8-10, 6-11

REACTIONS.	(size)	2=0-3-8, 14=0-3-8, 10=0-3-8
	Max Horz	2=324(LC 9)
	Max Uplift	2=-60(LC 12), 14=-365(LC 12), 10=-162(LC 9)
	Max Grav	2=535(LC 25), 14=1457(LC 1), 10=1071(LC 1)

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

2-3=-580/115, 3-5=-343/69, 5-6=-1043/222, 6-7=-939/251, 7-8=-787/261 TOP CHORD

- BOT CHORD 2-15=-149/466, 14-15=-78/349, 5-14=-1039/313, 11-13=-237/890, 10-11=-165/419
- WEBS 8-11=-127/611, 8-10=-924/261, 3-15=-428/188, 6-13=-313/144, 5-13=-223/838

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 2-5-11, Interior(1) 2-5-11 to 22-3-14, Exterior(2R) 22-3-14 to 27-0-12, Interior(1) 27-0-12 to 29-3-5, Exterior(2E) 29-3-5 to 33-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 14=365, 10=162.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







	L	4-3-8	13-3	-11		22-3-14		_	27-7-0	29-3-5	33-6-0	
	[2:0 2 40 0	4-3-8	9-0	1-3 0 0 0 01 17:0 4	0 0 0 0 1 0	9-0-3	0 0 0 0	0.01.14	5-3-2	1-8-5	4-2-11	
Plate Olisets (A, f)	[2.0-3-10,0	-2-0 <u>]</u> , [4.0-0-	0,Eugej, [0.0-4-0	0,0-2-2 <u>], [7.0-4</u> -	-0,0-2-2], [8	5.0-3-0,0-1-0], [12.	.0-2-0,0-	-2-0], [1	0.0-3-6,0	-2-0], [17.0-6	-0,0-3-0]	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SP/ Plat Lum Rep Coo	ACING- e Grip DOL bber DOL Stress Incr le IRC2018/	2-0-0 1.15 1.15 YES TPI2014	CSI. TC 0 BC 0 WB 0 Matrix-A	0.74 0.70 0.91 AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.40 -0.80 0.28	(loc) 16-17 16-17 9	l/defl >999 >499 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 176 lb	GRIP 197/144 148/108 FT = 20%
LUMBER- TOP CHORD 2x4 6-7 BOT CHORD 2x4 2-1 WEBS 2x4	I	BRACING- TOP CHOR BOT CHOR WEBS	RD RD	Structu 2-0-0 o Rigid c 1 Row	ral wood c purlins eiling dire at midpt	sheathing dir (6-0-0 max.): ctly applied. 7 [.]	ectly applied, except 6-7. -10, 8-9, 6-12, 5-14, 3	end verticals, and 3-16				
REACTIONS. (size) 2=0-3-8, 9=0-3-8 Max Horz 2=344(LC 11) Max Uplift 2=-318(LC 12), 9=-249(LC 12) Max Grav 2=1563(LC 1), 9=1500(LC 1)												
FORCES. (Ib) - M TOP CHORD 2	lax. Comp./Ma -3=-5548/1240 -9=-1476/311	x. Ten All f , 3-5=-2909/6	orces 250 (lb) or 605, 5-6=-1587/3	· less except wl 368, 6-7=-650/2	hen shown. 242, 7-8=-7-	48/245,						
BOT CHORD 2	-17=-1302/513 2-13=-339/138	7, 16-17=-12 1	863/4938, 14-16=	=-635/2616, 13	-14=-363/13	327,						
WEBS 3 5	WEBS 3-17=-158/970, 6-14=-149/859, 8-12=-279/1264, 6-12=-1101/295, 5-14=-1462/441, 5-16=-16/609, 3-16=-2341/691											
NOTES- 1) Unbalanced roo 2) Wind: ASCE 7-1 MWFRS (envelo	f live loads hav 6; Vult=115mp pe) gable end (1) 27-0-12 to 2	e been consi h (3-second zone and C-1 29-3-5 Exter	idered for this de gust) Vasd=91m C Exterior(2E) -0 ior(2E) 29-3-5 to	esign. hph; TCDL=6.0)-10-8 to 2-5-11	psf; BCDL= 1, Interior(1)	=4.2psf; h=25ft; Ca) 2-5-11 to 22-3-1	at. II; Ex 4, Exter	p C; En ior(2R)	iclosed; 22-3-14 t	0 right		JEE

- 27-0-12, Interior(1) 27-0-12 to 29-3-5, Extenor(2E) 29-3-5 to 33-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=318, 9=249.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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NITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017



WEBS

1 Row at midpt

	6-7: 2x6 SPF No.2, 7-8: 2x4 SPF No.2
BOT CHORD	2x4 SPF No.2 *Except*
	2-17: 2x6 SPF 2100F 1.8E, 15-17: 2x4 SP 2400F 2.0E
WEBS	2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 9=0-3-8 Max Horz 2=344(LC 11) Max Uplift 2=-318(LC 12), 9=-249(LC 12) Max Grav 2=1563(LC 1), 9=1500(LC 1)

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

 TOP CHORD
 2-3=-5549/1240, 3-5=-2908/606, 5-6=-1588/368, 6-7=-637/247, 7-8=-734/250,
- 8-9=-1448/310
- BOT CHORD 2-17=-1301/5138, 16-17=-1263/4939, 14-16=-636/2615, 13-14=-363/1328, 12-13=-342/1263
- WEBS 3-17=-158/972, 6-14=-144/878, 8-12=-278/1238, 6-12=-1123/289, 5-14=-1459/442, 5-16=-17/605, 3-16=-2343/691

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 2-5-11, Interior(1) 2-5-11 to 22-3-14, Exterior(2R) 22-3-14 to 27-0-12, Interior(1) 27-0-12 to 29-3-5, Exterior(2E) 29-3-5 to 33-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=318, 9=249.

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

9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



7-10, 8-9, 6-12, 5-14, 3-16









- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 2-3=-424/241, 3-4=-341/194, 4-5=-324/195, 5-6=-296/184, 6-8=-269/175

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 2-5-6, Exterior(2N) 2-5-6 to 22-3-14, Corner(3R) 22-3-14 to 25-9-8, Exterior(2N) 25-9-8 to 29-3-5, Corner(3R) 29-3-5 to 32-5-8, Exterior(2N) 32-5-8 to 33-0-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 30, 44, 45, 47, 48, 49, 50, 51, 52, 53, 54, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32 except (jt=lb) 55=111, 31=101.
 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







Job	Truss	Truss Type	Qty	Ply	Summit/6 Cobey Creek	
					4	8235729
2991403	B1	GABLE	1	1		
					Job Reference (optional)	
Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Oct 6 10:59:21 2021 Page 2						
	· · ·	ID:sZNiC9?	G94Kxezi	(5JOhRW)	DFsh-HdZ1ZHuKbOUQS2oVNZ734cxEIWpf3Db6HMvGS5vV	N9la

NOTES-

12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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0-1-0	7-10-3	15-4-15		19-5-8	19 ₁ 9-0	24-1-1	27-1-0	29-5-5	\$0-4-9	37-0-11	39-9-0
0-1-0	7-9-4	7-6-11		4-0-9	0-3-8	4-4-1	2-11-15	2-4-5 ()-11-4	6-8-2	2-8-5
Plate Offsets (X,Y)	[1:Edge,0-0-0], [5:0-	4-8,0-2-0], [7:0-6-0,0)-2-4], [9:0-	4-0,Edge], [2	24:0-2-4,0)-2-13]					
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- Plate Grip DC Lumber DOL	2-0-0 DL 1.15 1.15	CSI. TC BC	0.54 0.89		DEFL. /ert(LL) /ert(CT)	in (loc) -0.11 13-15 -0.24 13-15	l/defl >999 >989	L/d 240 180	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Rep Stress Ir Code IRC20	ncr YES 18/TPI2014	WB Matri	0.91 ix-AS	H	lorz(CT)	0.03 12	n/a	n/a	Weight: 199 I	b FT = 20%
LUMBER- BRACING- TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied, except BOT CHORD 2x4 SPF No.2 2-0-0 oc purpting (6-0-0 max): 5-7									t		

BOT CHORD	2x4 SPF No.2		2-0-0 oc purlins (6-0-0 max.)
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied
SLIDER	Left 2x6 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0	WEBS	1 Row at midpt
			2 Rows at 1/3 pts
REACTIONS.	(size) 1=Mechanical, 18=0-3-8, 12=0-3-8		
	Max Horz 18-239(LC 8)		

Max Horz 18=-239(LC 8) Max Uplift 1=-205(LC 12), 18=-179(LC 12), 12=-261(LC 13) Max Grav 1=855(LC 25), 18=1891(LC 1), 12=856(LC 1)

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

 TOP CHORD
 1-3=-990/301, 3-5=-466/290, 5-6=-272/280, 6-7=-321/361, 7-8=-460/361, 8-10=-1113/433, 10-12=-2319/734

 BOT CHORD
 1-21=-149/852, 19-21=-149/852, 15-16=-217/901, 13-15=-555/1816, 12-13=-596/2015

 WEBS
 17-18=-1866/186, 6-17=-1831/198, 3-21=0/319, 3-19=-736/290, 5-19=-256/88, 10-13=-129/708, 8-15=-4/398, 10-15=-936/342, 6-19=-175/838, 6-16=-119/853,

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-11-11, Interior(1) 3-11-11 to 15-4-15, Exterior(2R) 15-4-15 to 21-0-6, Interior(1) 21-0-6 to 24-1-1, Exterior(2R) 24-1-1 to 29-8-8, Interior(1) 29-8-8 to 39-9-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 pt =1.60

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.

8-16=-808/294

6) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=205, 18=179, 12=261.

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

9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



3-19, 5-19, 7-16 6-18





Max Horz 18=-239(LC 8) Max Uplift 1=-211(LC 12), 18=-165(LC 12), 12=-247(LC 13) Max Grav 1=861(LC 25), 18=1870(LC 1), 12=867(LC 1)

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

- TOP CHORD
 1-3=-1003/315, 3-5=-477/265, 5-6=-280/284, 6-7=-323/337, 7-8=-518/315, 8-10=-1247/450, 10-12=-1113/380

 BOT CHORD
 1-21=-160/864, 19-21=-160/864, 17-18=-1847/170, 6-17=-1814/179, 15-16=-277/1127,
- 8-15=-26/397, 12-13=-248/961

 WEBS
 3-21=0/320, 3-19=-738/293, 6-19=-161/825, 6-16=-129/860, 10-13=-254/96, 13-15=-207/970, 8-16=-926/350

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-11-11, Interior(1) 3-11-11 to 15-4-15, Exterior(2R) 15-4-15 to 21-0-6, Interior(1) 21-0-6 to 24-1-1, Exterior(2R) 24-1-1 to 29-8-8, Interior(1) 29-8-8 to 39-9-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=211, 18=165, 12=247.
- 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.



16023 Swingley Ridge Rd Chesterfield, MO 63017



Plate Offsets (X V) [1-Edge					
1 Idio Olisolo (X, I) [1.Luye	e,0-0-0], [5:0-4-8,0-2-0], [7:0-5-8,0	-2-0], [12:Edge,0-0-0], [*	15:0-6-4,0-2-8]		
LOADING (psf) S TCLL 25.0 P TCDL 10.0 L BCLL 0.0 F BCDL 10.0 C	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.54 BC 0.45 WB 0.88 Matrix-AS	DEFL. i Vert(LL) -0.07 Vert(CT) -0.11 Horz(CT) 0.07	n (loc) I/defl L/d 7 19-21 >999 240 5 19-21 >999 180 1 12 n/a n/a	PLATES GRIP MT20 197/144 Weight: 202 lb FT = 20%
LUMBER- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 SLIDER Left 2x6 SPF N	No.2 2-6-0, Right 2x4 SPF No.2 2	6-0	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing 2-0-0 oc purlins (6-0-0 ma: Rigid ceiling directly applie 1 Row at midpt	directly applied, except x.): 5-7. d. Except: 6-17

REACTIONS. (size) 1=Mechanical, 18=0-3-8, 12=0-3-8 Max Horz 18=-239(LC 8) Max Uplift 1=-210(LC 12), 18=-167(LC 12), 12=-243(LC 13) Max Grav 1=857(LC 25), 18=1882(LC 1), 12=861(LC 1)

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

TOP CHORD 1-3=-994/311, 3-5=-471/258, 5-6=-276/284, 6-7=-301/330, 7-8=-463/319,

 8-10=-1080/406, 10-12=-1169/377

 BOT CHORD
 1-21=-157/856, 19-21=-157/856, 17-18=-1859/173, 6-17=-1812/186, 15-16=-184/898, 8-15=-47/396, 12-13=-247/966

 WEBS
 3-21=0/320, 3-19=-733/290, 5-19=-256/71, 6-16=-132/845, 13-15=-222/940, 6-19=-168/840, 8-16=-775/286

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-11-11, Interior(1) 3-11-11 to 15-4-15, Exterior(2R) 15-4-15 to 21-0-6, Interior(1) 21-0-6 to 24-1-1, Exterior(2R) 24-1-1 to 29-8-8, Interior(1) 29-8-8 to 39-9-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

5) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=210, 18=167, 12=243.

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

8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



MI

Mitek[®] 16023 Swingley Ridge Rd Chesterfield, MO 63017



			20-9-8				
I			20-9-8				I
Plate Offsets (X,Y)	[29:0-2-4,0-1-8]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	ı (loc) l/de	fl L/d	PLATES (GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) 0.00	16 n	/r 120	MT20 1	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) 0.00	16 n	/r 120		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00	16 n/	a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S				Weight: 92 lb	FT = 20%
LUMBER-	PE No 2		BRACING-	Structural wa	od choothing di	irectly applied or 6.0.0 or	

BOT CHORD

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

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2OTHERS2x4 SPF No.2WEDGE

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

REACTIONS. All bearings 20-9-8.

- (lb) Max Horz 2=83(LC 16)
 - Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 26, 27, 28, 30, 31, 23, 22, 21, 20, 19, 18, 16 Max Grav All reactions 250 lb or less at joint(s) 2, 24, 25, 26, 27, 28, 30, 31, 23, 22, 21, 20, 19, 18, 16

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 2-4-12, Exterior(2N) 2-4-12 to 10-4-12, Corner(3R) 10-4-12 to 13-4-12, Exterior(2N) 13-4-12 to 21-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, 25, 26, 27, 28, 30, 31, 23, 22, 21, 20, 19, 18, 16.
- 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.







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 Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



October 7,2021







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.







- 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 6-6-0, Corner(3R) 6-6-0 to 9-6-0, Exterior(2N) 9-6-0 to 13-10-8 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, 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.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



Job	Truss	Truss Type	Qty	Ply	Summit/6 Cobey Creek	148235739
2991403	G1	GABLE	1	2	Ich Reference (ontional)	110200700
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8.	430 s Aug	16 2021 MiTek Industries, Inc. Wed Oct 6 10:59:38 20	21 Page 2
 NOTES- 11) This truss design require bottom chord. 12) Graphical purlin representation or other compared solutions of the compared solution of the compared solution. 	res that a minimum of 7/16" s entation does not depict the s	tructural wood sheathing be applied directly to t size or the orientation of the purlin along the top	he top ch and/or bo	ord and 1	/2" gypsum sheetrock be applied directly to the rd.	arrcyweij
responsibility of others. 14) Studding applied to ply:	: 1(Front)					
LOAD CASE(S) Standard	ced): Lumber Increase=1.15	Plate Increase=1 15				
Uniform Loads (plf) Vert: 3-15=-70,	15-16=-70, 17-23=-20					
Vert: 13=-800(F) 38=-760(F) 39=-760(F) 40=	-760(F) 41=-750(F) 42=-711(F) 43=-711(F) 44=	-800(F) 4	5=-800(F) 46=-800(F)	
2) Dead + 0.75 Roof Live (b Uniform Loads (plf) Vert: 3-15=-58	balanced): Lumber Increase=	1.15, Plate Increase=1.15				
Concentrated Loads (lb)) 28 760(E) 20 760(E) 40	760/E) 41 750/E) 42 711/E) 42 711/E) 44	900(E) 4	E 900/E) 46- 800/E)	
3) Dead + Uninhabitable At Uniform Loads (plf)	tic Without Storage: Lumber	-760(F) 41=-750(F) 42=-711(F) 43=-711(F) 44= Increase=1.25, Plate Increase=1.25	-800(F) 4	·5=-800(F) 46=-800(F)	
Vert: 3-15=-20, Concentrated Loads (lb)	15-16=-20, 17-23=-40					
Vert: 13=-800(F 4) Dead + 0.6 C-C Wind (P) 38=-760(F) 39=-760(F) 40= os. Internal) Case 1: Lumber	760(F) 41=-750(F) 42=-711(F) 43=-711(F) 44= Increase=1.60, Plate Increase=1.60	-800(F) 4	5=-800(F) 46=-800(F)	
Vert: 3-37=30, 1 Horz: 3-23=20, 3	15-37=20, 15-16=20, 17-23=- 3-37=42, 15-37=32, 16-17=3	8 5				
Concentrated Loads (lb) Vert: 13=-800(F 5) Dead + 0.6 C-C Wind (P) 38=-760(F) 39=-760(F) 40= os. Internal) Case 2: Lumber	-760(F) 41=-750(F) 42=-711(F) 43=-711(F) 44=	-800(F) 4	5=-800(F) 46=-800(F)	
Uniform Loads (plf) Vert: 3-15=20, 1	15-16=30, 17-23=-8	niciease - 1.00, 1 late niciease - 1.00				
Horz: 3-23=-35, Concentrated Loads (lb)	3-15=32, 16-17=-20					
Vert: 13=-800(F 6) Dead + 0.6 C-C Wind (N) 38=-760(F) 39=-760(F) 40= leg. Internal) Case 1: Lumber	760(F) 41=-750(F) 42=-711(F) 43=-711(F) 44= Increase=1.60, Plate Increase=1.60	-800(F) 4	5=-800(F) 46=-800(F)	
Uniform Loads (plf) Vert: 3-15=-36,	15-16=-36, 17-23=-20					
Concentrated Loads (lb) Vert: 13=-800(F	3-15=-16, 16-17=-32	-760(F) 41=-750(F) 42=-711(F) 43=-711(F) 44=	-800(F) 4	5=-800(F) 46=-800(F)	
7) Dead + 0.6 C-C Wind (N Uniform Loads (plf)	leg. Internal) Case 2: Lumber	Increase=1.60, Plate Increase=1.60			,	
Vert: 3-15=-36, Horz: 3-23=32, 3 Concentrated Loads (b)	15-16=-36, 17-23=-20 3-15=-16, 16-17=23					
Vert: 13=-800(F 8) Dead + 0.6 MWFRS Win) 38=-760(F) 39=-760(F) 40= nd (Pos. Internal) Left: Lumbe	-760(F) 41=-750(F) 42=-711(F) 43=-711(F) 44= er Increase=1.60, Plate Increase=1.60	-800(F) 4	5=-800(F) 46=-800(F)	
Uniform Loads (plf) Vert: 3-15=15, 1	5-16=11, 17-23=-8					
Horz: 3-23=17, 3 Concentrated Loads (Ib)	3-15=27, 16-17=22			- 000/F		
Vert: 13=-800(F 9) Dead + 0.6 MWFRS Win Uniform Loads (plf)) 38=-760(F) 39=-760(F) 40= nd (Pos. Internal) Right: Lumb	760(F) 41=-750(F) 42=-711(F) 43=-711(F) 44= per Increase=1.60, Plate Increase=1.60	-800(F) 4	5=-800(F) 46=-800(⊢)	
Vert: 3-15=17, 1 Horz: 3-23=-22,	15-16=29, 17-23=-8 3-15=29, 16-17=-17					
Concentrated Loads (lb) Vert: 13=-800(F 10) Dead + 0.6 MWERS W) 38=-760(F) 39=-760(F) 40=	760(F) 41=-750(F) 42=-711(F) 43=-711(F) 44= per Increase=1 60. Plate Increase=1 60	-800(F) 4	5=-800(F) 46=-800(F)	
Uniform Loads (plf) Vert: 3-15=-5,	15-16=-9, 17-23=-20					
Horz: 3-23=28 Concentrated Loads (lb Vert: 13800(, 3-15=15, 16-17=10)) E) 38–-760(E) 39–-760(E) 4()760(E) 41750(E) 42711(E) 43711(E) 44	800(F)	45800(E) 46800(E)	
11) Dead + 0.6 MWFRS W Uniform Loads (plf)	ind (Neg. Internal) Right: Lur	nber Increase=1.60, Plate Increase=1.60	- 000(1)	40- 000(() +0= 000(i)	
Vert: 3-15=-2, Horz: 3-23=-10 Concentrated Loads (Ib	15-16=9, 17-23=-20), 3-15=18, 16-17=-28					
Vert: 13=-800(12) Dead + 0.6 MWFRS W	, F) 38=-760(F) 39=-760(F) 40 ind (Pos. Internal) 1st Paralle	9=-760(F) 41=-750(F) 42=-711(F) 43=-711(F) 44 9I: Lumber Increase=1.60, Plate Increase=1.60	=-800(F)	45=-800(F) 46=-800(F)	
Uniform Loads (plf) Vert: 3-15=11,	15-16=11, 17-23=-8					
Concentrated Loads (lb Vert: 13=-800/	, 3-13=23, 10-17=20)) F) 38=-760(F) 39=-760(F) 40)=-760(F) 41=-750(F) 42=-711(F) 43=-711(F) 44	=-800(F)	45=-800(F) 46=-800(F)	
Continued on page 3			- ()	(
continuou on puge o						



JOD	Truss	Truss Type	Qty	Ріу	Summit/6 Cobey Creek		148235730
2991403	G1	GABLE	1	2			140200700
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8.	430 s Aug	Job Reference (optional) 16 2021 MiTek Industries, Inc.	Wed Oct 6 10:59:38 2021	Page 3
	····,	ID:sZNi	C9?G94K	ezjx5JOh	RWzDFsh-Hv5S855?bcd0?fbn	ntdw2GB85sNaXYzXcBVafYc	cyW9IJ
LOAD CASE(S) Standard							
13) Dead + 0.6 MWFRS W	ind (Pos. Internal) 2nd Parall	el: Lumber Increase=1.60, Plate Increase=1.60					
Uniform Loads (plf)	45 40 00 47 00 0						
Vent: 3-15=29, Horz: 3-23=-20	, 15-16=29, 17-23=-8 0 3-15=41 16-17=-14						
Concentrated Loads (It	o)						
Vert: 13=-800((F) 38=-760(F) 39=-760(F) 40)=-760(F) 41=-750(F) 42=-711(F) 43=-711(F) 44	l=-800(F)	45=-800(F) 46=-800(F)		
14) Dead + 0.6 MWFRS W	and (Pos. Internal) 3rd Paralle	el: Lumber Increase=1.60, Plate Increase=1.60					
Vert: 3-15=6, 1	15-16=6, 17-23=-8						
Horz: 3-23=7,	3-15=18, 16-17=15						
Concentrated Loads (It	0) (E) 38760(E) 39760(E) 1()760(E) 41750(E) 42711(E) 43711(E) 4		45800(E) 46800(E)		
15) Dead + 0.6 MWFRS W	(i) 30=100(i) 33=100(i) 40	el: Lumber Increase=1.60, Plate Increase=1.60	F=-000(1)	40-000(1)40-000(1)		
Uniform Loads (plf)	, , , , , , , , , , , , , , , , , , ,						
Vert: 3-15=16,	, 15-16=16, 17-23=-8						
Concentrated Loads (It	o)						
Vert: 13=-800((F) 38=-760(F) 39=-760(F) 40)=-760(F) 41=-750(F) 42=-711(F) 43=-711(F) 44	l=-800(F)	45=-800(F) 46=-800(F)		
16) Dead + 0.6 MWFRS W	ind (Neg. Internal) 1st Paralle	el: Lumber Increase=1.60, Plate Increase=1.60					
Vert: 3-15=-9	15-16=-9 17-23=-20						
Horz: 3-23=26	6, 3-15=11, 16-17=8						
Concentrated Loads (It				45 000			
Vert: 13=-800(17) Dead + 0.6 MWFRS W	(F) 38=-760(F) 39=-760(F) 40 (ind (Neg. Internal) 2nd Paral)=-760(F) 41=-750(F) 42=-711(F) 43=-711(F) 44 el: Lumber Increase=1.60, Plate Increase=1.60	I=-800(F)	45=-800(F) 46=-800(F)		
Uniform Loads (plf)	ina (nog. internar) zna r arai						
Vert: 3-15=9, *	15-16=9, 17-23=-20						
HOIZ: 3-23=-8, Concentrated Loads (It	, 3-15=29, 16-17=-26						
Vert: 13=-800((F) 38=-760(F) 39=-760(F) 40)=-760(F) 41=-750(F) 42=-711(F) 43=-711(F) 44	-800(F)	45=-800(F) 46=-800(F)		
18) Dead: Lumber Increase	e=0.90, Plate Increase=0.90	Plt. metal=0.90					
Vert: 3-15=-20	15-16=-20 17-23=-20						
Concentrated Loads (It)))						
Vert: 13=-800((F) 38=-760(F) 39=-760(F) 40)=-760(F) 41=-750(F) 42=-711(F) 43=-711(F) 44	=-800(F)	45=-800(F) 46=-800(F)		
19) Dead + 0.75 Roof Live Uniform Loads (plf)	(bal.) + 0.75(0.6 MWFRS Wi	nd (Neg. Int) Left): Lumber Increase=1.60, Plate	Increase	=1.60			
Vert: 3-15=-46	6, 15-16=-49, 17-23=-20						
Horz: 3-23=21	, 3-15=11, 16-17=7						
Vert: 13=-800	o) (F) 38=-760(F) 39=-760(F) 4()=-760(F) 41=-750(F) 42=-711(F) 43=-711(F) 44		45=-800(F) 46=-800(F)		
20) Dead + 0.75 Roof Live	(bal.) + 0.75(0.6 MWFRS Wi	nd (Neg. Int) Right): Lumber Increase=1.60, Pla	te Increas	se=1.60	.,		
Uniform Loads (plf)	45 40 00 47 00 00						
Vert: 3-15=-44 Horz: 3-23=-7.	, 15-16=-36, 17-23=-20 . 3-15=13. 16-17=-21						
Concentrated Loads (It	p)						
Vert: 13=-800((F) 38=-760(F) 39=-760(F) 40	0=-760(F) 41=-750(F) 42=-711(F) 43=-711(F) 44	l=-800(F)	45=-800(F) 46=-800(F)		
Uniform Loads (plf)	(bal.) + 0.75(0.6 WWFR5 W	nd (Neg. Int) 1st Parallel): Lumber Increase=1.6	o, Plate I	ncrease=	1.60		
Vert: 3-15=-49	9, 15-16=-49, 17-23=-20						
Horz: 3-23=19), 3-15=9, 16-17=6						
Vert: 13=-800	7) (F) 38=-760(F) 39=-760(F) 40)=-760(F) 41=-750(F) 42=-711(F) 43=-711(F) 44	l=-800(F)	45=-800(F) 46=-800(F)		
22) Dead + 0.75 Roof Live	(bal.) + 0.75(0.6 MWFRS Wi	nd (Neg. Int) 2nd Parallel): Lumber Increase=1.	60, Plate	Increase=	1.60		
Uniform Loads (plf)	15-1636 17-2320						
Horz: 3-23=-6,	, 3-15=22, 16-17=-19						
Concentrated Loads (It	o)						
Vert: 13=-800(23) Dead + 0.6 C-C Wind M	(F) 38=-760(F) 39=-760(F) 40 Min_Down: Lumber Increase-)=-760(F) 41=-750(F) 42=-711(F) 43=-711(F) 44 -1 60_ Plate Increase=1 60	l=-800(F)	45=-800(F) 46=-800(F)		
Uniform Loads (plf)	with Down. Earlber mercase-	-1.00, Flate morease=1.00					
Vert: 3-15=-28	8, 15-16=-28, 17-23=-8						
Horz: 3-23=-10 Concentrated Loads (It	6, 3-15=-16, 16-17=-16						
Vert: 13=-800((F) 38=-760(F) 39=-760(F) 40)=-760(F) 41=-750(F) 42=-711(F) 43=-711(F) 44	l=-800(F)	45=-800(F) 46=-800(F)		
24) Dead + 0.6 C-C Wind M	Min. Upward: Lumber Increas	e=1.60, Plate Increase=1.60					
Vert: 3-15=4	15-16=4, 17-23=-8						
Horz: 3-23=16	, 3-15=16, 16-17=16						
Concentrated Loads (It) (E) 28 - 760(E) 20 - 760(E) 46			45 0001	E) 46- 900(E)		
ven: 13=-800((r) 30=-100(r) 39=-100(r) 40	<i>א=-1</i> סט(ד) 41=-1סט(ד) 42=-111(ד) 43=-111(ד) 44	⊧=-öUU(F)	40=-800(r) 40=-800(r)		





16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/6 Cobey Creek	
					14823	35740
2991403	G2	Roof Special Girder	1	2		
				_	Job Reference (optional)	
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8.	430 s Aug	16 2021 MiTek Industries, Inc. Wed Oct 6 10:59:40 2021 Page	; 2

ID:sZNiC9?G94Kxezjx5JOhRWzDFsh-DHDCZn7F7DtkEzl9_2yWLcEa1BJP0p?vfp3mdVyW9IH

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-7=-70, 11-12=-20, 8-10=-20

Concentrated Loads (lb)

Vert: 1=-1009 7=-1 13=-981 14=-981 15=-979 16=-1404 17=-1416 18=-1416 19=-1404 20=-1404 21=-1404





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

NOTES-

- 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) 0-3-11 to 3-3-11, Interior(1) 3-3-11 to 4-4-1, Exterior(2R) 4-4-1 to 7-4-1, Interior(1) 7-4-1 to 8-4-7 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Gable requires continuous bottom chord bearing.
- 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) 1, 7, 2, 6, 10, 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.





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



TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=7-0-4, 4=7-0-4, 6=7-0-4

Max Horz 2=-61(LC 10)

Max Uplift 2=-56(LC 12), 4=-64(LC 13), 6=-15(LC 12)

Max Grav 2=205(LC 1), 4=205(LC 1), 6=295(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) 0-3-11 to 3-3-11, Interior(1) 3-3-11 to 4-4-1, Exterior(2R) 4-4-1 to 7-4-1, Interior(1) 7-4-1 to 8-4-7 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) 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) 2, 4, 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

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











L			6-11-6		
I			6-11-6		I
Plate Offsets (X,Y)	[3:0-3-0,Edge]				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.11 BC 0.24 WB 0.00 Matrix-P	DEFL. ir Vert(LL) 0.00 Vert(CT) 0.00 Horz(CT) 0.00	i (loc) l/defl L/d 5 n/r 120 5 n/r 120 4 n/a n/a	PLATES GRIP MT20 197/144 Weight: 14 lb FT = 20%
LUMBER- TOP CHORD 2x4 SI BOT CHORD 2x4 SI	PF No.2 PF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire Rigid ceiling directly applied o	ectly applied or 6-0-0 oc purlins. r 10-0-0 oc bracing.

REACTIONS. (size) 2=4-8-13, 4=4-8-13 Max Horz 2=-23(LC 13) Max Uplift 2=-53(LC 12), 4=-53(LC 13)

Max Uplift 2=-53(LC 12), 4=-53(LC 13) Max Grav 2=262(LC 1), 4=262(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) 2, 4.

6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

- referenced standard ANSI/TPI 1.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.







LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.29 BC 0.14 WB 0.08 Matrix-S	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	(loc) l/defl L/d - n/a 999 - n/a 999 14 n/a n/a	PLATES GRIP MT20 197/144 Weight: 90 lb FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP OTHERS 2x4 SP	F No.2 F No.2 F No.2 F No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied c	ectly applied or 6-0-0 oc purlins, or 10-0-0 oc bracing.
REACTIONS. All be (lb) - Max H Max U Max G	earings 17-4-9. orz 1=300(LC 9) plift All uplift 100 lb or less at joint(s) 1- rav All reactions 250 lb or less at joint(1)	4, 15, 16, 17, 18, 19, 20, 21 s) 14, 1, 15, 16, 17, 18, 19,	l, 22, 23, 24 , 20, 21, 22, 23 except 2	24=309(LC	
FORCES. (lb) - Max. TOP CHORD 1-2=-	Comp./Max. Ten All forces 250 (lb) or 440/218, 2-4=-375/187, 4-5=-360/191, 5	less except when shown. 5-6=-326/179, 6-7=-296/170), 7-8=-265/161		
NOTES- 1) Wind: ASCE 7-16; V MWFRS (envelope) right exposed ; end plate grip DOL=1.60	ult=115mph (3-second gust) Vasd=91m gable end zone and C-C Corner(3E) 0-8 vertical left and right exposed;C-C for m	ph; TCDL=6.0psf; BCDL=4 3-12 to 3-8-12, Exterior(2N) embers and forces & MWFf	I.2psf; h=25ft; Cat. II; E; I 3-8-12 to 17-2-13 zone RS for reactions shown	xp C; Enclosed; ;; cantilever left and ; Lumber DOL=1.60	

2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

3) All plates are 2x4 MT20 unless otherwise indicated.

4) Gable 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) 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24.

7) N/A

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.



16023 Swingley Ridge Rd Chesterfield, MO 63017



LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.45 BC 0.24 WB 0.08 Matrix-S	DEFL. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	n (loc) l/defl L/d a - n/a 999 a - n/a 999 5 n/a n/a	PLATES GRIP MT20 197/144 Weight: 47 lb FT = 20%
LUMBER- TOP CHORD 2x4 SI BOT CHORD 2x4 SI	PF No.2 PF No.2		BRACING- TOP CHORD	Structural wood sheathing di except end verticals.	rectly applied or 6-0-0 oc purlins,

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

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

REACTIONS. All bearings 14-8-8.

(lb) -Max Horz 1=253(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 7=-169(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=315(LC 1), 7=552(LC 1)

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

TOP CHORD 1-2=-307/190

WEBS 3-6=-252/166, 2-7=-413/241

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) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 14-7-5 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) Gable requires continuous bottom chord bearing.

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 7=169.

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.







LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.20 BC 0.10 WB 0.06 Matrix-S	DEFL. in (loc) I/defl L/d PLATES GRIP Vert(LL) n/a - n/a 999 MT20 197/144 Vert(CT) n/a - n/a 999 MT20 197/144 Vert(CT) -0.00 5 n/a n/a Weight: 37 lb FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF	PF No.2 PF No.2		BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

REACTIONS. All bearings 11-10-14.

(lb) - Max Horz 1=202(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 7=-106(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=386(LC 1), 7=354(LC 1)

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

TOP CHORD 1-2=-258/163

WEBS 3-6=-302/200, 2-7=-270/163

NOTES-

 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) 0-9-1 to 3-11-8, Interior(1) 3-11-8 to 11-9-12 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) 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.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 7=106.

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.







LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2	2-0-0 CSI. 1.15 TC 1.15 BC YES WB 2014 Matri	0.26 Vert(LL) 0.14 Vert(CT) 0.05 Horz(CT) ix-S	in n/a n/a -0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 26 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 BOT CHORD 2x4 WEBS 2x4 OTHERS 2x4	SPF No.2 SPF No.2 SPF No.2 SPF No.2 SPF No.2		BRACING TOP CHO BOT CHO	i- iRD iRD	Structur except e Rigid ce	al wood s and vertic iling direc	sheathing dir als. ctly applied c	ectly applied or 6-0-0 r 10-0-0 oc bracing.	oc purlins,

REACTIONS. (size) 1=9-1-5, 4=9-1-5, 5=9-1-5 Max Horz 1=151(LC 9)

Max Uplift 1=-8(LC 12), 4=-28(LC 9), 5=-120(LC 12) Max Grav 1=159(LC 1), 4=128(LC 1), 5=456(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. WEBS 2-5=-347/243

NOTES-

 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) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 9-0-2 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=120.

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



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LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.58 BC 0.32 WB 0.00 Matrix-P	DEFL. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	n (loc) l/defl L/d n - n/a 999 n - n/a 999 n 3 n/a n/a	PLATES MT20 Weight: 16 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF	F No.2 F No.2 F No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o	ectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,
REACTIONS. (size	e) 1=6-3-11, 3=6-3-11					

Max Horz 1=6-3-11, 3=6-3-1 Max Horz 1=100(LC 9)

Max Horz T = 100(LC 9)Max Uplift 1=-43(LC 12), 3=-68(LC 12)

Max Grav 1=246(LC 1), 3=246(LC 1)

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

NOTES-

 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) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 6-2-9 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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







2x4 ⋍

2x4 ||

LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.12 BC 0.07 WB 0.00 Matrix-P	DEFL. i Vert(LL) n/: Vert(CT) n/: Horz(CT) 0.00	n (loc) l/defl L/d a - n/a 999 a - n/a 999 3 3 n/a n/a	PLATES GRIP MT20 197/144 Weight: 8 lb FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF	2F No.2 2F No.2		BRACING- TOP CHORD	Structural wood sheathing dir	ectly applied or 3-6-11 oc purlins,
WEBS 2x4 SF	PF No.2		BOT CHORD	Rigid ceiling directly applied of	or 10-0-0 oc bracing.
REACTIONS. (siz Max H Max U	e) 1=3-6-1, 3=3-6-1 lorz 1=49(LC 9) Jplift 1=-22(LC 12), 3=-32(LC 12)				

Max Grav 1=120(LC 1), 3=120(LC 1)

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

NOTES-

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







LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.42 BC 0.23 WB 0.08 Matrix-S	DEFL. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	n (loc) l/defl L/d - n/a 999 - n/a 999 5 n/a n/a	PLATES GRIP MT20 197/144 Weight: 47 lb FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF	PF No.2 PF No.2		BRACING- TOP CHORD	Structural wood sheathing c except end verticals.	directly applied or 6-0-0 oc purlins,

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

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

REACTIONS. All bearings 14-6-6.

(lb) -Max Horz 1=249(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 7=-164(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=322(LC 1), 7=537(LC 1)

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

TOP CHORD 1-2=-305/188

WEBS 3-6=-257/169, 2-7=-403/236

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) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 14-5-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 7=164.

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.







LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.20 BC 0.10 WB 0.06 Matrix-S	DEFL. in (I Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	loc) l/defl L/d - n/a 999 - n/a 999 5 n/a n/a	PLATES GRIP MT20 197/144 Weight: 36 lb FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF	2F No.2 2F No.2		BRACING- TOP CHORD St	tructural wood sheathing dir	ectly applied or 6-0-0 oc purlins,

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

REACTIONS. All bearings 11-8-13.

(lb) - Max Horz 1=199(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 7=-105(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=389(LC 1), 7=344(LC 1)

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

TOP CHORD 1-2=-256/162

WEBS 3-6=-304/202, 2-7=-263/159

NOTES-

 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) 0-9-1 to 3-9-6, Interior(1) 3-9-6 to 11-7-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 7=105.

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



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LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.26 BC 0.14 WB 0.05 Matrix-P	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	(loc) l/defl L/d - n/a 999 - n/a 999 4 n/a n/a	PLATES MT20 Weight: 26 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SI BOT CHORD 2x4 SI WEBS 2x4 SI OTHERS 2x4 SI	PF No.2 PF No.2 PF No.2 PF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o	ectly applied or 6-0-0 or 10-0-0 or 10-0-0 oc bracing.	oc purlins,

REACTIONS. (size) 1=8-11-3, 4=8-11-3, 5=8-11-3 Max Horz 1=148(LC 9) Max Uplift 1=-6(LC 12), 4=-28(LC 9), 5=-120(LC 12)

Max Grav 1=147(LC 1), 4=126(LC 1), 5=455(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-5=-354/252

NOTES-

 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) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 8-10-1 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) 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.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=120.

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.



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

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LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.54 BC 0.29 WB 0.00 Matrix-P	DEFL. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	n (loc) l/defl L/d a - n/a 999 a - n/a 999 3 n/a n/a	PLATES MT20 Weight: 16 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 2x4 S	PF No.2 PF No.2 PF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o	ectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,
REACTIONS. (si Max	ze) 1=6-1-9, 3=6-1-9 Horz 1=97(LC 9)					

Max Uplift 1=-44(LC 12), 3=-64(LC 12)

Max Grav 1=238(LC 1), 3=238(LC 1)

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

NOTES-

 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) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 6-0-7 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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 ⋍

2x4 ||

LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.11 BC 0.06 WB 0.00 Matrix-P	DEFL. ir Vert(LL) n/z Vert(CT) n/z Horz(CT) 0.00	n (loc) l/defl L/d a - n/a 999 a - n/a 999) 3 n/a n/a	PLATES GRIP MT20 197/144 Weight: 8 lb FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF	PF No.2 PF No.2 PF No.2		BRACING- TOP CHORD	Structural wood sheathing di except end verticals.	rectly applied or 3-4-9 oc purlins,
WEBS 2x4 SF	PF No.2		BOT CHORD	Rigid ceiling directly applied	or 10-0-0 oc bracing.
REACTIONS. (siz Max H Max U	e) 1=3-4-0, 3=3-4-0 torz 1=46(LC 9) Jplift 1=-21(LC 12), 3=-30(LC 12)				

Max Grav 1=112(LC 1), 3=112(LC 1)

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

NOTES-

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







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.







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







IONS. (size) 1=7-10-13, 3=7-10-13, 4=7-10-13 Max Horz 1=-53(LC 8) Max Uplift 1=-41(LC 12), 3=-48(LC 13), 4=-18(LC 12)

Max Grav 1=163(LC 1), 3=163(LC 1), 4=295(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 3-11-13, Exterior(2R) 3-11-13 to 6-11-13, Interior(1) 6-11-13 to 7-5-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) 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, 4. 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.





