

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRATION LEE'S SUMMIT, MISSOURI	
BY	
DATE	

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

Re: 2731404

Summit/86 Hawthorne

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: I45512743 thru I45512775

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

Missouri COA: Engineering 001193



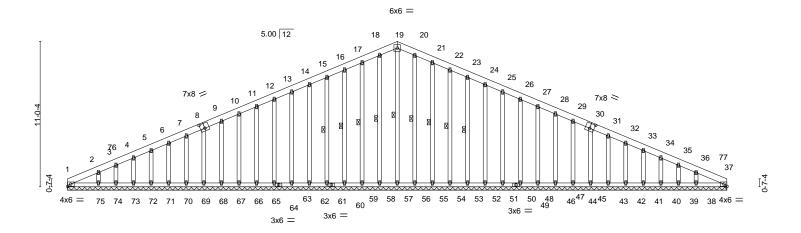
April 6,2021

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.

							RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Summit/86 Hav	horne	AS NOTED ON PLANS REVIEW
	l.,		1.				CODES ADMINISTRA 1410の743
2731404	A1	GABLE	1	1	Job Reference (ptional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8	3.430 s Mar	22 2021 MiTek	ndustries,	Inc. Mon Apr 5 17:23:42 2021 Page 1
		ID:m1	2XGkUFyk	(2st1aXRS	PCfy84v9-3Cg3	6EDqWI	ABPxrbfWpCo5pJxnlJluiSKCNbzTiCF
	25-0	0-0			50-	-0	
ı	25-0	0-0			25-0	0	DATE



50-0-0 50-0-0 Plate Offsets (X,Y)--[8:0-4-0,0-4-8], [20:0-0-0,0-0-0], [21:0-0-0,0-0-0], [22:0-0-0,0-0-0], [22:0-0-0,0-0-0], [23:0-0-0,0-0-0], [24:0-0-0,0-0-0], [25:0-0-0,0-0-0], [26:0-0-0,0-0-0], [27:0-0-0-0], [27:0-0-0-0], [27:0-0-0-0], [27:0-0-0-0], [27:0-0-0[28:0-0-0,0-0-0], [29:0-0-0,0-0-0], [30:0-4-0,0-4-8], [31:0-0-0,0-0-0], [32:0-0-0,0-0-0], [33:0-0-0,0-0-0], [34:0-0-0,0-0-0], [35:0-0-0,0-0-0], [36:0-0-0,0-0], [36:0-LOADING (psf) CSI. GRIP SPACING-DEFL. I/defI L/d **PLATES** in (loc) **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) n/a n/a 999 MT20 197/144 Lumber DOL TCDL 10.0 вс 0.03 Vert(CT) 999 1.15 n/a n/a WB **BCLL** 0.0 Rep Stress Incr YES 0.10 Horz(CT) 0.01 37 n/a n/a Code IRC2018/TPI2014 FT = 20%Weight: 372 lb BCDI 10.0 Matrix-S

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

2x4 SPF No.2

BRACING-TOP CHORD **BOT CHORD**

WEBS

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

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

19-56, 18-57, 17-58, 16-59, 15-61, 20-55, 21-54, 22-53, 23-52

REACTIONS. All bearings 50-0-0.

Max Horz 1=187(LC 16) (lb) -

Max Uplift All uplift 100 lb or less at ioint(s) 1, 58, 59, 61, 62, 63, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74,

75, 54, 53, 52, 51, 50, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38

Max Grav All reactions 250 lb or less at joint(s) 1, 56, 57, 58, 59, 61, 62, 63, 65, 66, 67, 68, 69, 70, 71,

 $72,\,73,\,74,\,75,\,55,\,54,\,53,\,52,\,37,\,51,\,50,\,48,\,47,\,46,\,45,\,44,\,43,\,42,\,41,\,40,\,39,\,38$

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

13-14=-91/257, 14-15=-101/284, 15-16=-111/311, 16-17=-122/341, 17-18=-132/370, 18-19=-133/372, 19-20=-133/372, 20-21=-132/370, 21-22=-122/341, 22-23=-111/311,

23-24=-101/284, 24-25=-91/257

LUMBER-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 25-0-0, Corner(3R) 25-0-0 to 28-0-0, Exterior(2N) 28-0-0 to 50-0-0 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) 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) 1, 58, 59, 61, 62, 63, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 54, 53, 52, 51, 50, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38,
- 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.



DELEASE FOR CONSTRUCTION

April 6,2021

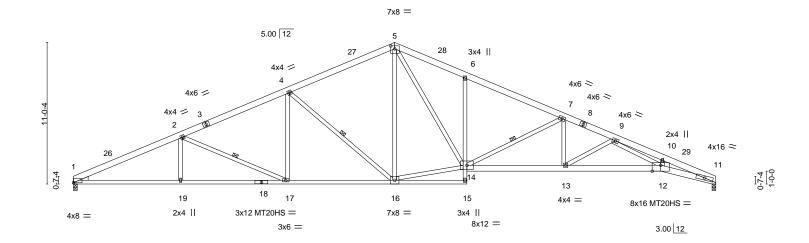






RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/86 Hav horne **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 149019744 2731404 A2 **ROOF SPECIAL** LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek adustries, Inc. Mon Apr 5 17:23:47 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:m1t2XGkUFyK2st1aXRSPCfy84v9-PAT vVqlMe3<mark>BuGylue9FhWFVqiKSlzRZdrk2z2ozTiCA</mark> 25-0-0 30-7-8 38-2-0 42-0-2 45-8-8 50-0-0 8-4-1 8-4-0 8-4-0 5-7-7 7-6-8 3-10-2 4-3-8 DATE



		8-4-1	16-8-1	25-0-0	30-7-8	1 38-2-0	45-8-8	50-0-0
	ı	8-4-1	8-4-0	8-4-0	5-7-7	7-6-8	7-6-8	4-3-8
Plate Offset	ts (X,Y)	[1:0-0-0,0-0-2], [5:	0-3-12,0-2-12], [12:0-	8-0,Edge]				
LOADING	(psf)	SPACING-		CSI.		n (loc) I/defl L/d		GRIP
TCLL	25.0	Plate Grip [OOL 1.15	TC 0.64	Vert(LL) -0.4	7 13-14 >999 240) MT20	197/144
TCDL	10.0	Lumber DC	L 1.15	BC 0.81	Vert(CT) -0.8	5 13-14 >705 180	MT20HS	148/108
BCLL	0.0	Rep Stress	Incr YES	WB 0.67	Horz(CT) 0.4	0 11 n/a n/a	a	
BCDL	10.0	Code IRC2	018/TPI2014	Matrix-AS			Weight: 265	lb FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

2-17, 4-16, 7-14

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

2x6 SPF No.2 *Except* TOP CHORD

1-3,8-11: 2x6 SPF 2100F 1.8E 2x4 SPF 1650F 1.5E *Except*

BOT CHORD 6-15: 2x4 SPF No.2, 12-14,11-12: 2x6 SPF 2100F 1.8E

WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 1=0-3-8, 11=0-3-8

Max Horz 1=109(LC 12)

Max Uplift 1=-123(LC 12), 11=-123(LC 13) Max Grav 1=2250(LC 1), 11=2250(LC 1)

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

TOP CHORD 1-2=-4784/700, 2-4=-3971/644, 4-5=-3032/579, 5-6=-4069/759, 6-7=-4120/675,

7-9=-5579/827, 9-10=-8717/1267, 10-11=-8900/1251

BOT CHORD 1-19=-561/4299, 17-19=-561/4299, 16-17=-410/3576, 6-14=-487/182, 13-14=-620/5100, 12-13=-809/6156, 11-12=-1114/8230

2-19=0/312, 2-17=-833/175, 4-17=0/560, 4-16=-1195/241, 5-16=-57/575,

14-16=-199/2514, 5-14=-333/2025, 7-14=-1570/260, 7-13=-55/917, 10-12=-10/528,

9-12=-334/2355, 9-13=-1235/221

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) interior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 25-0-0, Exterior(2R) 25-0-0 to 28-0-0, Interior(1) 28-0-0 to 50-0-0 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) All plates are MT20 plates unless otherwise indicated.
- 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) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=123, 11=123.
- 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.



April 6,2021



Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/86 Hav horne **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 1410 16745 2731404 **A3 ROOF SPECIAL** 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

25-0-0

8-4-0

LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek adustries, Inc. Mon Apr 5 17:23:48 2021 Page 1 AJ_PMAU6t4Csmw2T2?gkojir4n4OnWaEzTiC9 ID:m1t2XGkUFyK2st1aXRSPCfy84v9-uM1k 29-3-7 34-9-2 40-2-13 43-0-9 | 45-8-8 50-0-0

2-9-1 DATE15

4-3-8

3.00 12

5-5-11

Structural wood sheathing directly applied.

6-16

2-19, 4-18, 7-16

Rigid ceiling directly applied. Except:

1 Row at midpt

1 Row at midpt

8x8 || 5.00 12 30 3x4 || 6 4x4 = 4x4 > 4x6 ≥ 4x6 = 8 4x6 > 3 4x6 > 10 2x4 || 11 4x16 = 31 12 1-1-0-0 0-7-4 15 13 20 8x16 MT20HS = 8x16 MT20HS =21 19 18 17 3x6 =3x12 MT18HS = 2x4 || 8x8 = 3x4 II 4x8 =3x6 =

4-3-7

5-5-11

8x12 =

		8-4-1	16-8-1		25-0-0	29-3-7	34-9-2	1	40-2-13	45	-8-8	50-0-0
	ı	8-4-1	8-4-0		8-4-0	4-3-7	5-5-11		5-5-11	5-	5-11	4-3-8
Plate Offsets	s (X,Y)	[1:0-0-0,0-0-2], [13:	0-8-0,Edge]									
LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	F	PLATES	GRIP
TCLL 2	25.0	Plate Grip D	OL 1.15	TC 0	.62	Vert(LL)	-0.49 15-16	>999	240	I N	/IT20	197/144
TCDL 1	10.0	Lumber DOL	1.15	BC 0	.83	Vert(CT)	-0.91 15-16	>660	180	l N	IT20HS	148/108
BCLL	0.0	Rep Stress I	ncr YES	WB 0	.85	Horz(CT)	0.43 12	n/a	n/a	l N	/IT18HS	197/144
BCDL 1	10.0	Code IRC20)18/TPI2014	Matrix-A	S					V	Veight: 266 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x6 SPF No.2 *Except* TOP CHORD

8-12: 2x6 SPF 2100F 1.8E 2x4 SPF 1650F 1.5E *Except*

8-4-1

8-4-0

BOT CHORD 6-17: 2x4 SPF No.2, 12-13,13-14: 2x6 SPF 2100F 1.8E

WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3

BOT CHORD

REACTIONS. (size) 1=0-3-8, 12=0-3-8

Max Horz 1=109(LC 12)

Max Uplift 1=-123(LC 12), 12=-123(LC 13) Max Grav 1=2250(LC 1), 12=2250(LC 1)

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

TOP CHORD 1-2=-4784/699, 2-4=-3972/644, 4-5=-3032/580, 5-6=-3765/713, 6-7=-3843/659,

7-9=-4737/740, 9-10=-5946/874, 10-11=-8656/1257, 11-12=-8864/1253 1-21=-560/4300, 19-21=-560/4300, 18-19=-410/3575, 6-16=-302/120, 15-16=-500/4334,

14-15=-678/5389, 13-14=-862/6506, 12-13=-1115/8197 **WEBS**

2-21=0/310, 2-19=-835/175, 4-19=0/563, 4-18=-1192/240, 5-18=-57/474,

16-18=-207/2636, 5-16=-308/1947, 7-16=-1217/217, 7-15=-58/757, 9-15=-1229/207,

9-14=-86/906, 11-13=-39/646, 10-13=-291/2020, 10-14=-1340/224

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) interior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 25-0-0, Exterior(2R) 25-0-0 to 28-0-0, Interior(1) 28-0-0 to 50-0-0 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) All plates are MT20 plates unless otherwise indicated.
- 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) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=123, 12=123.
- 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.



April 6,2021



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

Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Summit/86 Hav horne 2731404 A4 **ROOF SPECIAL**

20-9-2

4-1-2

Valley Center, KS - 67147,

4-0-11

4-3-5

2-3-1

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 149019746 LEE'S SUMMIT, MISSOURI

Job Reference optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 5 17:23:50 2021 Page 1

sKFx_OPY0TJHoO7u7L3XSGAns3YiGdf7zTiC7 ID:m1t2XGkUFyK2st1aXRSPCfy84v9-ql958 42-7-15 45-8-8 25-0-0 25₁10₁15 32-6-2 39-1-5 50-0-0 4-2-14 0-10-15 6-7-3 6-7-3 3-6-10 DATE9 4-3-8

Structural wood sheathing directly applied.

7-17, 9-15, 5-20, 5-17, 4-20

Rigid ceiling directly applied.

1 Row at midpt

6x6 =5.00 12 6 4x4 / 32 31 5 4x4 < 4x6 < 4x4 = 4x6 = 4x4 > 8 9 4x6 > 4x4 = 10 2x4 II 11 4x16 = 33 12 15 14 13 21 23 22 20 1918 3x6 = 8x16 MT20HS = 8x16 MT20HS = 3x12 MT20HS = 2x4 || 6x12 = 3x4 || 4x8 = 3x4 || 3.00 12

2x4 ldx12 =

	1 0-	1-0 6-4-1	12-7-0	16-6-1 ₁	20-9-2	25-0-0	טוןטוןכ∠ ע	52-6-2 I	39-1-5	1 40-6-6	50-0-0	
	6-	1-0 2-3-1	4-3-5	4-0-11	4-1-2	4-2-14	4 0-10-15	6-7-3	6-7-3	6-7-3	4-3-8	
Plate Offse	ets (X,Y)	[1:0-0-0,0-0-2], [13:	0-8-0,Edge], [17:0-5-8,0-2-0)]							
LOADING	(psf)	SPACING-	2-0-0		CSI.		DEFL.	in (loc)	I/defl L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip Do	OL 1.15	'	TC 0.63		Vert(LL)	-0.50 15-16	>999 240	MT20	197/144	
TCDL	10.0	Lumber DOL	. 1.15		BC 0.95		Vert(CT)	-0.94 15-16	>636 180	MT20HS	148/108	
BCLL	0.0	Rep Stress In	ncr YES	'	WB 0.77		Horz(CT)	0.44 12	n/a n/a			
BCDL	10.0	Code IRC20	18/TPI2014		Matrix-AS					Weight: 267	lb FT = 20%	

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*

Builders FirstSource (Valley Center),

8-12: 2x6 SPF 2100F 1.8E 2x4 SPF 1650F 1.5E *Except*

BOT CHORD 16-18,18-21: 2x4 SPF No.2, 12-13,13-14: 2x6 SPF 2100F 1.8E

2x4 SPF No.2

WEBS

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 1=0-3-8, 12=0-3-8

Max Horz 1=109(LC 12)

Max Uplift 1=-123(LC 12), 12=-123(LC 13) Max Grav 1=2250(LC 1), 12=2250(LC 1)

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

1-2=-4814/701, 2-4=-4332/675, 4-5=-3498/611, 5-6=-3228/614, 6-7=-3316/606, TOP CHORD

7-9=-4387/704, 9-10=-5668/838, 10-11=-8691/1260, 11-12=-8892/1251

BOT CHORD 1-23=-576/4332, 22-23=-576/4332, 20-22=-483/3959, 16-17=-392/3982, 15-16=-442/3998, 14-15=-636/5141, 13-14=-838/6324, 12-13=-1114/8222

WEBS 7-17=-1381/266, 7-15=-52/796, 9-15=-1314/223, 9-14=-68/857, 11-13=-30/609,

17-19=0/255, 6-17=-322/2053, 5-17=-582/156, 17-20=-280/3125, 4-20=-1028/203,

4-22=0/423, 2-22=-466/110, 10-13=-311/2218, 10-14=-1359/236

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) interior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 25-0-0, Exterior(2R) 25-0-0 to 28-0-0, Interior(1) 28-0-0 to 50-0-0 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) All plates are MT20 plates unless otherwise indicated.
- 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) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=123, 12=123.
- 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.



April 6,2021







Job Truss Truss Type Qty Summit/86 Hav horne 2731404 **A5 ROOF SPECIAL** 2 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:m1t2XGkUFyK2st1aXRSPCfy84v9-lxj7

7-6-0

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 150 10747 LEE'S SUMMIT, MISSOURI

Job Reference optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 5 17:23:51 2021 Page 1 _BLtiHW Dtt_Jdg5gWaxmrvAUDmM0ABZzTiC6 45-8-8 50-0-0 50-10-8 31-10-14 32-6-0 0-7-3 40-0-0 0-10-8 6-10-13 4-3-8 DÁTÊ

Structural wood sheathing directly applied.

7-17, 9-16, 10-14

Rigid ceiling directly applied.

1 Row at midpt

6x6 = 5.00 12 6 4x4 = 4x4 > 5 4x6 = 4x6 > 6x12 / 4x4 > 4x4 = 4x6 > 2 10 32 11 0-0-0<u>-Z-4</u> 19 17 16 14 13 33 18 15 22 21 3x6 = 4x8 = 5x5 = 3x6 8x16 MT20HS = 4x12 = 3x4 || 4x6 = 5x8 WB = 4x6 = 3x8 =5x12 =3.00 12 3x6 II

	L	5-0-1 ₁	10-0-0	17-6-0		25-0-0	27-10-4	32-6-0	36-9-6	40-0-0	45-8-8	50-0-0
	1	5-0-1	4-11-15	7-6-0	1	7-6-0	2-10-4	4-7-12	4-3-6	3-2-10	5-8-8	4-3-8
Plate Offs	sets (X,Y)-	- [11:0-2-4,0-	1-2], [13:0-8-	0,0-5-4], [19:0-	3-8,0-2-0]							
LOADING	G (psf)	SPAC	CING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate	Grip DOL	1.15	TC	0.58	Vert(LL)	-0.33 13-14	>999	240	MT20	197/144
TCDL	10.0	Lumb	er DOL	1.15	BC	0.99	Vert(CT)	-0.59 13-14	>815	180	MT20HS	148/108
BCLL	0.0	Rep S	Stress Incr	YES	WB	1.00	Horz(CT)	0.21 11	n/a	n/a		
BCDL	10.0	Code	: IRC2018/TI	PI2014	Matr	ix-AS	, ,				Weight: 260 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

11-13,13-15: 2x6 SPF 2100F 1.8E

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

REACTIONS. (size) 11=0-3-8, 20=0-3-8 (req. 0-4-6)

Max Horz 20=-117(LC 17)

Max Uplift 11=-131(LC 13), 20=-229(LC 8) Max Grav 11=1760(LC 1), 20=2802(LC 1)

4-11-15

7-6-0

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

TOP CHORD 1-2=-389/498, 2-3=-1182/1413, 3-5=-1441/133, 5-6=-1753/196, 6-7=-1754/190,

7-9=-2809/268, 9-10=-4154/370, 10-11=-6677/593

1-22=-380/372, 3-20=-2536/880, 19-20=-1100/1170, 17-19=0/1232, 16-17=-25/2501, **BOT CHORD**

14-16=-210/3825, 13-14=-461/5871, 11-13=-483/6203

WEBS 10-13=-65/1316, 6-17=-54/755, 5-17=-249/401, 5-19=-889/430, 3-19=-886/2529,

2-22=-366/263, 2-20=-888/845, 20-22=-325/400, 7-16=-27/730, 7-17=-1301/242,

9-14=0/584, 9-16=-1460/210, 10-14=-2076/256

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) interior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 25-0-0, Exterior(2R) 25-0-0 to 28-0-0, Interior(1) 28-0-0 to 50-10-8 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) All plates are MT20 plates unless otherwise indicated
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) WARNING: Required bearing size at joint(s) 20 greater than input bearing size.
- 6) Bearing at joint(s) 11 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) 11=131, 20=229.
- 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.



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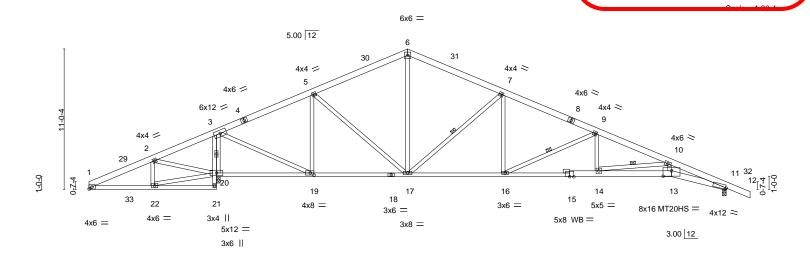




RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/86 Hav horne **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 141010748 2731404 A5A **ROOF SPECIAL** LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek adustries, Inc. Mon Apr 5 17:23:52 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:m1t2XGkUFyK2st1aXRSPCfy84v9-m7Hr /XMVTb MjAsRigsDJDhTL6AedmM??lkj?zTiC5 31-10-14 32-6-0 0-7-3 40-0-0 45-8-8 50-0-0

7-6-0



6-10-13

		5-0-1 4-11-15	7-6-0	7-6-0	2-10-4	4-7-12	4-3-6	3-2-10	5-8-8	4-3-8
Plate Off	sets (X,Y)	[11:0-0-12,0-1-6], [13:0-	8-0,0-5-0], [19:0	-3-8,0-2-0]						
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.57	Vert(LL)	-0.32 13-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.99	Vert(CT)	-0.58 13-14	>824	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB 1.00	Horz(CT)	0.21 11	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-AS					Weight: 262 lb	FT = 20%

27-10-4

BRACING-

WEBS

TOP CHORD

BOT CHORD

32-6-0

36-9-6

40-0-0

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

1 Row at midpt

45-8-8

7-17, 9-16, 10-14

25-0-0

LUMBER-

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

11-13,13-15: 2x6 SPF 2100F 1.8E

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

REACTIONS. (size) 11=0-3-8, 20=0-3-8 (req. 0-4-6)

Max Horz 20=-126(LC 17)

Max Uplift 11=-142(LC 13), 20=-228(LC 8) Max Grav 11=1832(LC 1), 20=2799(LC 1)

10-0-0

4-11-15

7-6-0

17-6-0

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

TOP CHORD 1-2=-389/498, 2-3=-1182/1413, 3-5=-1438/132, 5-6=-1749/194, 6-7=-1750/185,

7-9=-2800/257, 9-10=-4131/341, 10-11=-6582/520

BOT CHORD 1-22=-380/372, 3-20=-2534/879, 19-20=-1100/1181, 17-19=0/1229, 16-17=-13/2493,

14-16=-176/3804, 13-14=-406/5787, 11-13=-424/6108

WEBS 10-13=-49/1282, 6-17=-53/752, 5-17=-249/400, 5-19=-887/429, 3-19=-885/2526,

2-22=-366/263, 2-20=-888/845, 20-22=-325/400, 7-16=-22/724, 7-17=-1295/240,

9-14=0/581, 9-16=-1446/199, 10-14=-2012/233

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) interior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 25-0-0, Exterior(2R) 25-0-0 to 28-0-0, Interior(1) 28-0-0 to 51-10-8 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) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) WARNING: Required bearing size at joint(s) 20 greater than input bearing size.
- 6) Bearing at joint(s) 11 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) 11=142, 20=228,
- 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.



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51-10-8 1-10-8

4-3-8

50-0-0

DATE





Job Truss Truss Type Qty Summit/86 Hav horne 2731404 A6 **ROOF SPECIAL** 2 Job Reference optional)

8.430 s Mar 22 2021 MiTek adustries, Inc. Mon Apr 5 17:23:53 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ntM7Evn<mark>BY</mark>tl2_PL5IWIt1IW4N3vWEfVHGSzTiC4 ID:m1t2XGkUFyK2st1aXRSPCfy84v9-EKrD

3-2-4

7-3-4

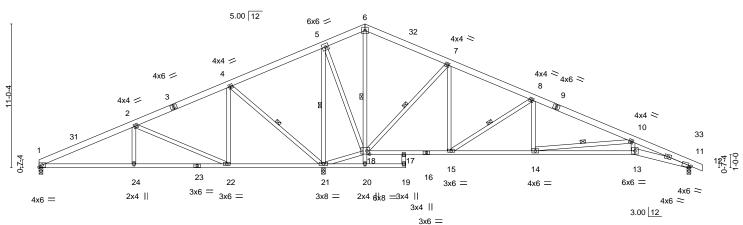
RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 149の19749 LEE'S SUMMIT, MISSOURI

28-1-8 31-5-8 37-11-0 45-8-8 50-0-0 50-10-8 3-1-8 3-4-0 6-5-8 7BATE 4-3-8 0-10-8 6x6 =

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

1 Row at midpt



			4-6-9	21-9-1		25-0-0	28-1-8	31-5-8		37-11-0	45-8-8	50-0-0
	' 7-:	3-5 ' 7	′-3-4	7-3-4	1	3-2-4	3-1-8	3-4-0	1	6-5-8	7-9-8	4-3-8
Plate Offsets	(X,Y) [1	1:0-2-4,0-1-10], [18:0-2	2-8,0-3-0]									
LOADING (p.	sf)	SPACING-	2-0-0	CSI.			DEFL.	in	(loc) I/	defl L/d	PLATES	GRIP
TCLL 25	5.0	Plate Grip DOL	1.15	TC	0.46	\	Vert(LL)	-0.19 13	3-14 >9	999 240	MT20	197/144
CDL 10	0.0	Lumber DOL	1.15	ВС	0.75	\	Vert(CT)	-0.38 13	3-14 >8	387 180		
BCLL (0.0	Rep Stress Incr	YES	WB	1.00		Horz(CT)	0.10	11	n/a n/a		
BCDL 10	0.0	Code IRC2018/TI	PI2014	Matri	x-AS		,				Weight: 268 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

11-13: 2x6 SPF No.2

WEBS 2x4 SPF No.2

REACTIONS. (size) 1=0-3-8, 11=0-3-8, 21=0-3-8 (req. 0-5-6)

Max Horz 1=-117(LC 17)

Max Uplift 1=-132(LC 26), 11=-91(LC 13), 21=-106(LC 12) Max Grav 1=592(LC 25), 11=882(LC 26), 21=3422(LC 1)

7-3-4

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

 $1-2=-836/628,\ 2-4=-46/1056,\ 4-5=-105/1732,\ 5-6=0/1010,\ 6-7=-6/1084,\ 7-8=-101/289,$ TOP CHORD

8-10=-1035/165, 10-11=-2817/350

BOT CHORD 1-24=-538/719, 22-24=-538/719, 21-22=-952/213, 14-15=-16/902, 13-14=-272/2472,

11-13=-276/2625

WEBS 2-24=0/294, 2-22=-920/186, 4-22=-10/546, 4-21=-1056/206, 5-21=-2153/277,

6-18=-1006/90, 8-14=0/448, 10-14=-1585/265, 10-13=0/652, 5-18=-126/1589,

18-21=-1550/354, 7-18=-1147/224, 7-15=-49/710, 8-15=-1072/189

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) interior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 25-0-0, Exterior(2R) 25-0-0 to 28-0-0, Interior(1) 28-0-0 to 50-10-8 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) WARNING: Required bearing size at joint(s) 21 greater than input bearing size.
- 5) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 1=132, 21=106,
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) 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.



4-21, 5-21, 6-20, 10-14, 7-18, 8-15

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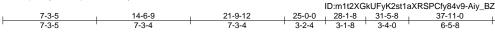
Job Truss Truss Type Qty Summit/86 Hav horne 2731404 A6A **ROOF SPECIAL** 2 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

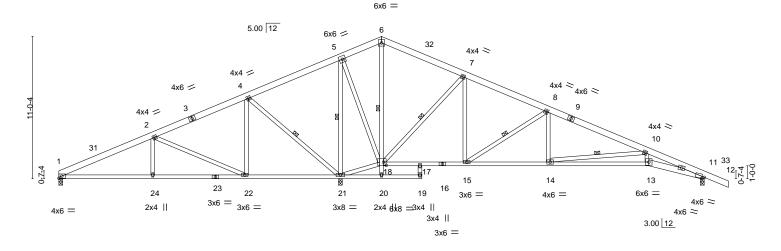
RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 141010750 LEE'S SUMMIT, MISSOURI

Job Reference optional)

8.430 s Mar 22 2021 MiTek adustries, Inc. Mon Apr 5 17:23:55 2021 Page 1 NmW0BbvR6qOZqxrDaYCirzPphz_OKKzTiC2

51-10-8 1-10-8 45-8-8 50-0-0 7-9DATE 4-3-8





——	7-3-5 7-3-5	14-6-9 7-3-4		25-0-0 28-1-8 3-2-4 3-1-8	31-5-8 3-4-0	37-11-0 6-5-8	45-8-8 7-9-8	50-0-0 4-3-8
Plate Offsets (X,Y)	[11:0-2-4,0-1-10],	[18:0-2-8,0-3-0]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip I Lumber DO Rep Stress Code IRC2	DOL 1.15 DL 1.15	CSI. TC 0.45 BC 0.74 WB 1.00 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.18 13-14 -0.38 13-14 0.09 11	l/defl L/d >999 240 >898 180 n/a n/a	PLATES MT20 Weight: 270 lb	GRIP 197/144 FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

REACTIONS.

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

11-13: 2x6 SPF No.2

WEBS 2x4 SPF No.2

(size) 1=0-3-8, 11=0-3-8, 21=0-3-8 (req. 0-5-5)

Max Horz 1=-126(LC 17)

Max Uplift 1=-124(LC 26), 11=-106(LC 13), 21=-103(LC 12) Max Grav 1=594(LC 25), 11=961(LC 26), 21=3405(LC 1)

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

1-2=-841/610, 2-4=-22/1037, 4-5=-84/1713, 5-6=0/995, 6-7=0/1070, 7-8=-113/286, TOP CHORD

8-10=-1038/179. 10-11=-2768/332

BOT CHORD 1-24=-522/724, 22-24=-522/724, 21-22=-935/213, 14-15=-11/905, 13-14=-249/2420,

11-13=-251/2567

WEBS 2-24=0/294, 2-22=-919/186, 4-22=-10/546, 4-21=-1056/206, 5-21=-2141/264, 6-18=-995/84, 8-14=0/446, 10-14=-1530/248, 10-13=0/628, 5-18=-118/1579,

18-21=-1533/353, 7-18=-1142/223, 7-15=-46/705, 8-15=-1063/183

- 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) interior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 25-0-0, Exterior(2R) 25-0-0 to 28-0-0, Interior(1) 28-0-0 to 51-10-8 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) WARNING: Required bearing size at joint(s) 21 greater than input bearing size.
- 5) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=124, 11=106, 21=103,
- 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.



4-21, 5-21, 6-20, 10-14, 7-18, 8-15

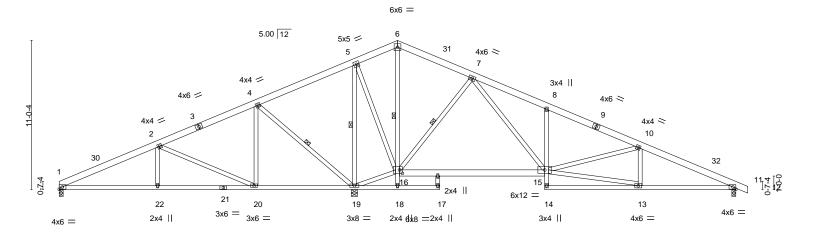
April 6,2021





RELEASE FOR CONSTRUCTION horne Job Truss Truss Type Qty Summit/86 Hav **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 1490 10751 2731404 A7 Roof Special LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek adustries, Inc. Mon Apr 5 17:23:56 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, P?Xq820dgYvoN9NPKycHaQBywdjxsnzTiC1 ID:m1t2XGkUFyK2st1aXRSPCfy84v9-fvWMC 28-1-8 30-6-2 3-1-8 2-4-10 21-9-12 35-10-8 12-11-3 50-0-0 50-10-8 0-10-8 5-2-12 2-0-8 4-2-8 3-0-12 3-2-4 5-4-6 **7-0-11** 7-0-13 DATE



	7-3-5 7-3-5			21-9-12 7-3-4	3-2-0		35-10-8 7-9-0		7-0-11		-0-0)-13
Plate Offs		[16:0-2-8,0-3-0]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.17 15-16	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.36 15-16	>938	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.05 11	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-AS					Weight: 277 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

6-18, 5-19, 7-16, 4-19

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

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

15-16: 2x6 SPF No.2

WEBS 2x4 SPF No.2

REACTIONS. (size) 1=0-3-8, 11=0-3-8, 19=0-5-8

Max Horz 1=-117(LC 17)

Max Uplift 1=-55(LC 12), 11=-103(LC 13), 19=-99(LC 12) Max Grav 1=654(LC 25), 11=1052(LC 26), 19=3139(LC 1)

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

1-2=-984/136, 2-4=-168/537, 4-5=-42/1258, 5-6=0/590, 6-7=0/631, 7-8=-1235/254, TOP CHORD

8-10=-1251/179. 10-11=-1814/243 $1-22 = -142/855,\ 20-22 = -142/855,\ 19-20 = -472/165,\ 15-16 = -182/300,\ 8-15 = -422/149,$

BOT CHORD WEBS

13-15=-105/1589, 10-15=-603/160, 6-16=-636/39, 5-19=-1995/216, 5-16=-64/1439, 16-19=-1152/291, 7-16=-1069/243, 7-15=-165/1277, 4-19=-1056/204, 4-20=-8/544,

2-20=-888/182, 2-22=0/290

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) interior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 25-0-0, Exterior(2R) 25-0-0 to 28-0-0, Interior(1) 28-0-0 to 50-10-8 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) 1, 19 except (jt=lb) 11=103.
- 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.



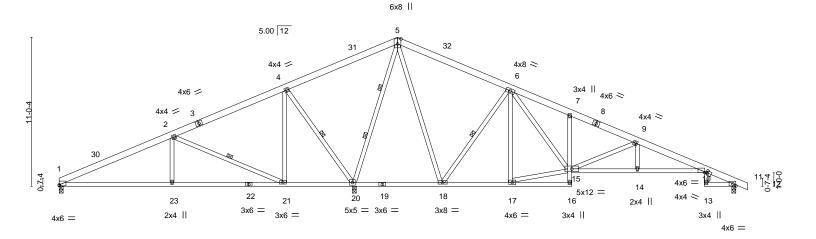
April 6,2021





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/86 Hav horne **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 150 10752 2731404 **A8** Roof Special LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek adustries, Inc. Mon Apr 5 17:23:57 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, el7GvTUBYDFQ1wMwR0MslJwc59HTVPDzTiC0 ID:m1t2XGkUFyK2st1aXRSPCfy84v9-754kcF0 50-0-0 2-4-0 0-10-8 37-10-8 16-8-1 DATE_4-11-5 8-4-1 25-0-0 4-10-3



⊢	8-4	-1	16-8-1	21-8-0	25-0-0	28-4-0	31-5-4 33-2	-4 37-	10-8	42-8-11	47-8-0	50-0-0
1	8-4	-1 '	8-4-0	5-0-0	3-4-0	3-4-0	3-1-4 1-9-	0 4-	3-4	4-10-3	4-11-5	2-4-0
Plate Offs	sets (X,Y)	[1:0-0-0,0-0-10], [5:0-4-	8,0-3-0], [10:0-1	I-14,0-0-2], [1	0:0-0-3,0-2-0]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc) I/defl	L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.26 10-14	>999	240		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.44 10-14	>761	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.12	1 n/a	n/a			
BCDL	10.0	Code IRC2018/7	TPI2014	Matrix	-AS	, ,				,	Weight: 257 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

2-21, 4-20, 6-18

5-20

Rigid ceiling directly applied.

1 Row at midpt

2 Rows at 1/3 pts

LUMBER-

REACTIONS.

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

5-20,5-18: 2x4 SPF 1650F 1.5E

(size) 1=0-3-8, 11=0-3-8, 20=0-3-8 (req. 0-5-14)

Max Horz 1=-117(LC 13)

Max Uplift 1=-340(LC 26), 11=-79(LC 13), 20=-123(LC 13) Max Grav 1=528(LC 25), 11=725(LC 26), 20=3752(LC 1)

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

1-2=-609/1180, 2-4=-114/1698, 4-5=-136/2277, 5-6=0/1061, 6-7=-343/170, TOP CHORD

7-9=-436/119, 9-10=-1365/201, 10-11=-346/89

BOT CHORD $1-23 = -1038/506, \ 21-23 = -1038/506, \ 20-21 = -1544/277, \ 18-20 = -1174/298, \ 17-18 = -260/128, \ 18-20 = -1174/298, \ 18-20 = -$

14-15=-103/1291, 10-14=-104/1291

WEBS 2-23=0/357, 2-21=-1097/213, 4-21=-26/565, 9-15=-1071/177, 4-20=-1104/235, 6-18=-1077/236, 5-20=-2861/378, 5-18=-145/1035, 15-17=-281/131, 6-15=-105/774

- 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) interior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 25-0-0, Exterior(2R) 25-0-0 to 28-0-0, Interior(1) 28-0-0 to 50-10-8 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) WARNING: Required bearing size at joint(s) 20 greater than input bearing size.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 1=340, 20=123.
- 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.



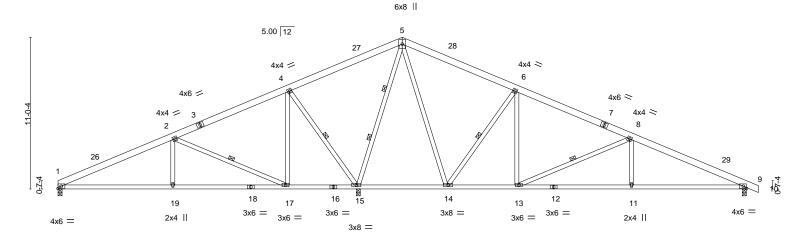






RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/86 Hav horne **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 150 10753 2731404 A9 Common LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek adustries, Inc. Mon Apr 5 17:23:59 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, 50-10-8 0-10-8 8-4-1 8-4-0 8-4-0 8-4-0 8-4-1 DATE



8-4			5-0-0 28-4-0 -4-0 3-4-0	33-4-0 5-0-0	41-7-15 8-4-0	50-0-0 8-4-1
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 0.46 BC 0.59 WB 0.89 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)		l/defl L/d >999 240 >999 180 n/a n/a	PLATES GRIP MT20 197/144 Weight: 243 lb FT = 20%

BRACING-

WEBS

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied.

8-13, 2-17, 4-15, 6-14

5-15

Rigid ceiling directly applied.

1 Row at midpt

2 Rows at 1/3 pts

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 1=0-3-8, 9=0-3-8, 15=0-3-8 (req. 0-4-11) Max Horz 1=-117(LC 13)

Max Uplift 1=-57(LC 12), 9=-112(LC 13), 15=-116(LC 12) Max Grav 1=680(LC 25), 9=1078(LC 26), 15=3004(LC 1)

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

TOP CHORD 1-2=-976/148, 2-4=0/547, 4-5=0/1205, 5-6=-186/269, 6-8=-857/200, 8-9=-1800/266

1-19=-134/841, 17-19=-134/841, 15-17=-478/152, 14-15=-410/200, 13-14=0/692, BOT CHORD

11-13=-153/1573, 9-11=-153/1573

WFBS 6-13=-19/544, 8-13=-980/190, 8-11=0/344, 4-17=-23/550, 2-17=-1037/205, 2-19=0/351,

5-15=-2087/276, 5-14=-150/1039, 4-15=-1100/235, 6-14=-1094/234

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) interior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 25-0-0, Exterior(2R) 25-0-0 to 28-0-0, Interior(1) 28-0-0 to 50-10-8 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) WARNING: Required bearing size at joint(s) 15 greater than input bearing size.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=112, 15=116.
- 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.



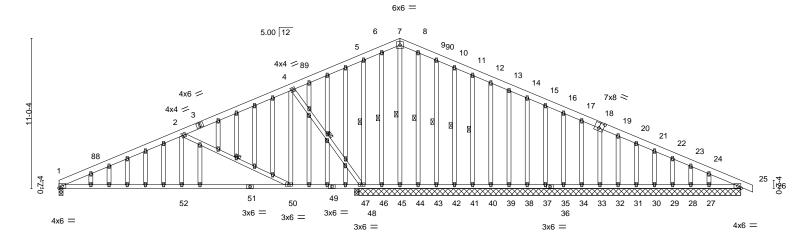
April 6,2021





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/86 Hav horne **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 149019754 2731404 A10 **GABLE** LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek adustries, Inc. Mon Apr 5 17:23:45 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, Rlc1e8VAVkCDQqQYTWpwVbbKOQZszvzTiCC ID:m1t2XGkUFyK2st1aXRSPCfy84v9-TnMC48G6 33-4-0 50-0-0 8-4-1 8-7-15 8-0-0 8-4-0 8-4-1 0-10-8 DATE



8-4-1		17-0-0 8-7-15	4-8-			5-0-0	1	8-4-0	8-4-	
	18:0-4-0,0-4-8]	0 7 10		0 041	0 0 1 0	000		0 4 0	0.4	•
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES	CSI. TC BC WB Matrix	0.37 0.58 0.38 ×-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.10 52-84 -0.22 52-84 0.03 47	>999 >999	L/d 240 180 n/a	PLATES MT20 Weight: 384 lb	GRIP 197/144 FT = 20%

TOP CHORD

Structural wood sheathing directly applied.

LUMBER-BRACING-

TOP CHORD 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied.

WEBS 2x4 SPF No.2 WEBS 1 Row at midpt 2-50, 7-45, 6-46, 5-47, 8-44, 9-43, 10-42, **OTHERS** 2x4 SPF No.2 11-41, 4-47

REACTIONS. All bearings 28-0-0 except (jt=length) 1=0-3-8, 48=0-3-8.

Max Horz 1=-117(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 1, 43, 42, 41, 40, 39, 38, 37, 35, 34, 33, 32, 31, 30, 29, 28,

27, 25 except 25=-139(LC 25), 47=-195(LC 12)

All reactions 250 lb or less at joint(s) 25, 46, 44, 43, 42, 41, 40, 39, 38, 37, 35, 34, 33, 32, 31, Max Grav

30, 29, 28, 27, 48 except 1=838(LC 1), 45=284(LC 1), 47=982(LC 25)

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

TOP CHORD $1\hbox{-}2\hbox{--}1310/258, 2\hbox{-}4\hbox{--}352/184, 4\hbox{-}5\hbox{--}0/468, 5\hbox{-}6\hbox{--}0/414, 6\hbox{-}7\hbox{--}0/403, 7\hbox{-}8\hbox{--}0/406, 8\hbox{-}9\hbox{--}0/427, }$

9-10=0/423, 10-11=0/421, 11-12=0/420, 12-13=0/420, 13-14=0/420, 14-15=0/420,

15-16=0/420, 16-17=0/420, 17-18=-13/420, 18-19=-32/420, 19-20=-51/420,

20-21=-70/420, 21-22=-90/420, 22-23=-109/421, 23-24=-125/410, 24-25=-158/446 1-52=-137/1142, 50-52=-137/1142, 46-47=-375/168, 45-46=-375/168, 44-45=-375/168,

43-44=-375/168, 42-43=-375/168, 41-42=-375/168, 40-41=-375/168, 39-40=-375/168,

38-39=-375/168, 37-38=-375/168, 35-37=-375/168, 34-35=-375/168, 33-34=-375/168,

32-33=-375/168, 31-32=-375/168, 30-31=-375/168, 29-30=-375/168, 28-29=-375/168, 27-28=-375/168 25-27=-375/168

 $4\text{-}50\text{=-}32/583,\ 2\text{-}50\text{=-}1034/208,\ 2\text{-}52\text{=-}0/352,\ 7\text{-}45\text{=-}260/0,\ 5\text{-}47\text{=-}260/110,}$

4-47=-994/195

NOTES-

WEBS

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 25-0-0, Exterior(2R) 25-0-0 to 28-0-0, Interior(1) 28-0-0 to 50-10-8 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) 1, 43, 42, 41, 40, 39, 38, 37, 35, 34, 33, 32, 31, 30, 29, 28, 27 except (jt=lb) 25=139, 47=195, 25=139.
- 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

OF MISSO

ANDREW

THOMAS

JOHN SOI

NUMBER

PE-2017018993

April 6,2021

PE-2

Truss Type horne Job Truss Qty Summit/86 Hav 2731404 A10 **GABLE**

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 150 19754 LEE'S SUMMIT, MISSOURI

Job Reference Optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 5 17:23:46 2021 Page 2 ID:m1t2XGkUFyK2st1aXRSPCfy84v9-x valUHkeeji4RjSz2zjDw99E2rUd4IPWMzTiCB

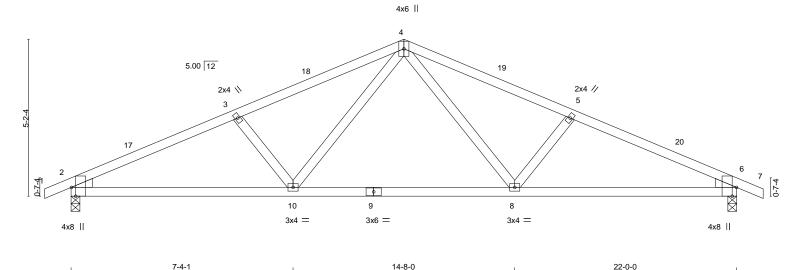
Builders FirstSource (Valley Center),

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 sheet ck be application to the bottom chord.



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/86 Hav horne **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 150 10755 2731404 **B1** Common LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 5 17:24:00 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, Wa2eTrentovNzkX?Y6wZyDWSKYrFh9_YzTiBz ID:m1t2XGkUFyK2st1aXRSPCfy84v9-XgmtEG 22-10-8 0-10-8 0-10-8 16-5-15 22-0-0 **DATE**-6-1 5-6-1 5-5-15 5-5-15



	7-4-1					7-3-15				7-4-1			
Plate Offs	sets (X,Y)	[2:0-3-8,Edge], [6:0-3-8,E	dge]										
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.10	8-10	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.22	8-10	>999	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.05	6	n/a	n/a			
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	-AS						Weight: 76 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEDGE

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

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

Max Horz 2=-87(LC 13)

Max Uplift 2=-187(LC 12), 6=-187(LC 13) Max Grav 2=1051(LC 1), 6=1051(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1814/398, 3-4=-1608/384, 4-5=-1608/384, 5-6=-1814/398

BOT CHORD 2-10=-303/1610, 8-10=-151/1126, 6-8=-299/1610

WEBS 4-8=-113/521, 5-8=-352/189, 4-10=-113/521, 3-10=-352/188

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 22-10-8 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=187, 6=187.
- 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.



April 6,2021





						KI	ELEASE FUR CU	NSTRUCTION	
Job	Truss	Truss Type	Qty	Ply	Summit/86 Hav	horne 🔥	S NOTED ON PL	ANS REVIEW	
0704404		CARLE					CODES ADMINIS	STRAITION756	
2731404	B2	GABLE	1	1	Job Reference (ptional)	LEE'S SUMMIT,	MISSOURI	
Builders FirstSource (Valley	Center), Valley Center, K						c. Mon Apr 5 17:24:01		
		ID:m1t2	KGkUFyK2	st1aXRSP0	Cfy84v9-?sJFRc	3LMmKx <mark>leM</mark> i	aS5Vz4C4MQzQRFwyl	h3vRiX_zTiBy	
_[0-10-8 _]	11-0-0)			22-0-			22-10-8	
0-10-8	11-0-0				11-0-0		DATE	0-10-8	
								01- 4-00 4	

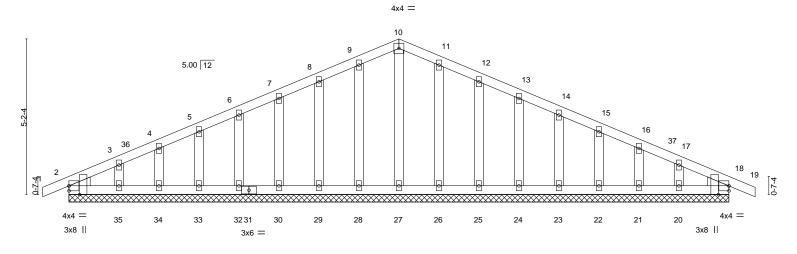


Plate Off	Plate Offsets (X,Y) [2:0-3-7,Edge], [18:0-3-7,Edge]											
LOADIN TCLL TCDL BCLL	G (psf) 25.0 10.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.05 0.02 0.04	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 0.00	(loc) 18 19 18	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code IRC2018/TI		Matri		1.012(01)	0.00	10	11/4	11/4	Weight: 100 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

OTHERS 2x4 SPF No.2 WEDGE

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

REACTIONS. All bearings 22-0-0.

Max Horz 2=-87(LC 17) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 28, 29, 30, 32, 33, 34, 35, 18, 26, 25, 24, 23, 22, 21, 20 Max Grav All reactions 250 lb or less at joint(s) 2, 27, 28, 29, 30, 32, 33, 34, 35, 18, 26, 25, 24, 23, 22,

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 11-0-0, Corner(3R) 11-0-0 to 14-0-0, Exterior(2N) 14-0-0 to 22-10-8 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, 28, 29, 30, 32, 33, 34, 35, 18, 26, 25, 24, 23, 22, 21, 20.
- 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.

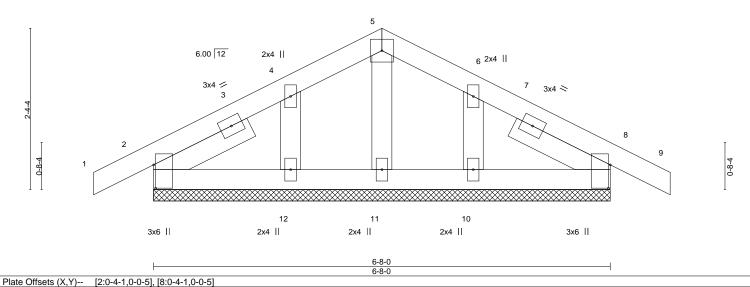
April 6,2021





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/86 Hav horne **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 150 10757 2731404 C₁ **GABLE** 1 LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek adustries, Inc. Mon Apr 5 17:24:02 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, n6guBZ**ExY**0o0CdQdX9NmW_NJqIZAG3QzTiBx ID:m1t2XGkUFyK2st1aXRSPCfy84v9-T3tdfyT 6-8-0 DATE 0-10-8 0-10-8 3-4-0 3-4-0 4x4 =



LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.05 BC 0.03 WB 0.03	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 8 n/r 120 Vert(CT) -0.00 8 n/r 120 Horz(CT) 0.00 8 n/a n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	11012(01) 0.00 0 11/4 11/4	Weight: 27 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 -t 1-6-10, Right 2x4 SPF No.2 -t 1-6-10

REACTIONS. All bearings 6-8-0.

Max Horz 2=37(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 12, 10 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 11, 12, 10

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-0-0, Exterior(2N) 2-0-0 to 3-4-0, Corner(3R) 3-4-0 to 6-4-0, Exterior(2N) 6-4-0 to 7-6-8 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) 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) 2, 8, 12, 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.



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

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

April 6,2021

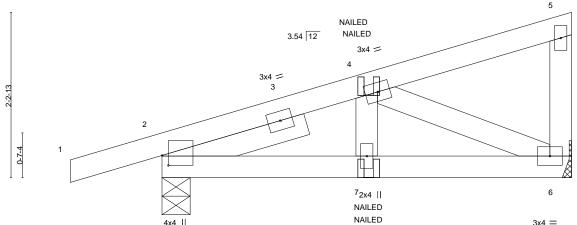






RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/86 Hav horne **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 141010758 2731404 CJ1 Diagonal Hip Girder 2 LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek adustries, Inc. Mon Apr 5 17:24:03 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, JOtz02BBWzaWXR9dAhun5Mjg7_XDwpbtzTiBw ID:m1t2XGkUFyK2st1aXRSPCfy84v9-xFR?sl 5-6-6 1-2-14 2-9-3 DATE



2-9-3	5-6-6
2-9-3	2-9-3

TOP CHORD

BOT CHORD

Plate Off	Plate Offsets (X,Y) [2:0-1-10,0-1-0]											
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	0.11	Vert(LL)	-0.00	7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	7	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix	c-MP						Weight: 22 lb	FT = 20%

LUMBER-BRACING-

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

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

REACTIONS. (size) 2=0-4-9, 6=Mechanical

Max Horz 2=86(LC 7)

Max Uplift 2=-118(LC 4), 6=-70(LC 8) Max Grav 2=346(LC 1), 6=240(LC 1)

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

TOP CHORD 2-4=-311/93

BOT CHORD 2-7=-92/313 6-7=-92/313

WEBS 4-6=-341/121

- 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) 6 except (jt=lb) 2 = 118
- 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: 1-5=-70, 6-8=-20 Concentrated Loads (lb) Vert: 7=-14(F=-7, B=-7)



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

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

except end verticals.

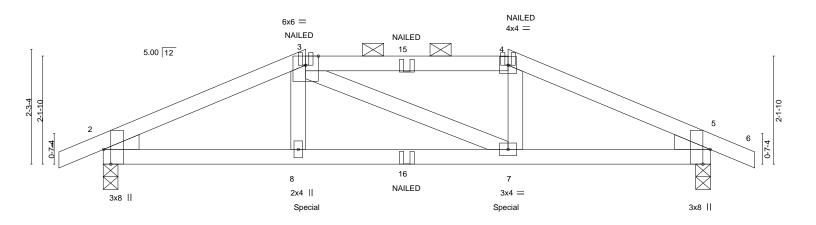
April 6,2021





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/86 Hav horne **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 150 10759 2731404 D1 Hip Girder LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek adustries, Inc. Mon Apr 5 17:24:04 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, 4eV1eH<mark>&∛</mark>Z598D2girimsBG7SG87mtfM7JzTiBv ID:m1t2XGkUFyK2st1aXRSPCfy84v9-QR?N 12-10-8 0-10-8 4-0-0 4-0-0 4-0-0 0-10-8 DATE



	<u></u>	4-0-0 4-0-0		-		8-0-0 4-0-0					12-0-0 4-0-0	—
Plate Offs	sets (X,Y)	[2:0-3-8,Edge], [5:0-3-8,E	Edge]									
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.06	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.11	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-MS	1					Weight: 41 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

WEBS 2x4 SPF No.2 WEDGE

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

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

Max Horz 2=35(LC 33)

Max Uplift 2=-262(LC 8), 5=-262(LC 9) Max Grav 2=933(LC 1), 5=933(LC 1)

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

TOP CHORD 2-3=-1618/472, 3-4=-1430/452, 4-5=-1619/472 **BOT CHORD** 2-8=-412/1451, 7-8=-408/1429, 5-7=-384/1452

WEBS 3-8=-54/298, 4-7=-60/305

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=262, 5=262.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 246 lb down and 117 lb up at 4-0-0, and 246 lb down and 117 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-4=-70, 4-6=-70, 9-12=-20



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

2-0-0 oc purlins (4-3-13 max.): 3-4.

Rigid ceiling directly applied or 9-2-1 oc bracing.

April 6,2021







						7	KELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Summit/86 Hav	horne	AS NOTED ON
							CODES ADM
2731404	D1	Hip Girder	1	1	Job Reference	ptional)	LEE'S SUMM

RELEASE FOR CONSTRUCTION I PLANS REVIEW MINISTRAI†うが向759 MIT, MISSOURI

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Mar 22 2021 MiTek flutstries, Inc. Mon Apr 5 17:24:04 2021 Page 2 ID:m1t2XGkUFyK2st1aXRSPCfy84v9-QR?N 4eV1eH&VZ598D2girimsBG7SG87mtfM7JzTiBv

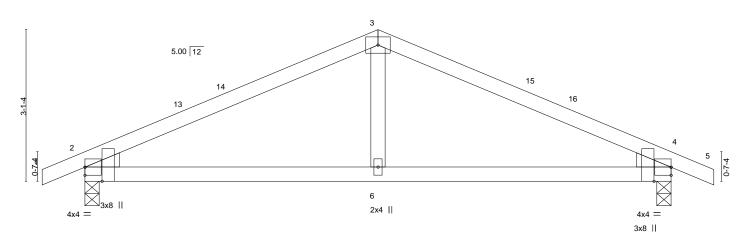
DATE_

LOAD CASE(S)	Standard
Concentrated	Loads (lb)

Vert: 4=-46(B) 8=-246(B) 7=-246(B) 3=-46(B) 15=-46(B) 16=-34(B)

RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/86 Hav horne **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 150 10760 2731404 D2 Common 3 LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek adustries, Inc. Mon Apr 5 17:24:05 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:m1t2XGkUFyK2st1aXRSPCfy84v9-ueZml _WfPbG<mark>∰Ŭ</mark>jgMhxZvE2Fz3aj?BkhH_XPwglzTiBu 12-10-8 0-10-8 6-0-0 0-10-8 DATE 4x6 =



		0-0-0		12-0-0	
		6-0-0		6-0-0	
Plate Off	sets (X,Y)	[2:0-3-7,Edge], [4:0-3-7,Edge]			
LOADIN	· · ·	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.04 6-12 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.07 6-12 >999 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.01 2 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 35 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEDGE

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

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

Max Horz 2=50(LC 16)

Max Uplift 2=-111(LC 12), 4=-111(LC 13) Max Grav 2=601(LC 1), 4=601(LC 1)

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

TOP CHORD 2-3=-775/303, 3-4=-775/303 **BOT CHORD** 2-6=-172/653, 4-6=-172/653

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 12-10-8 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=111, 4=111.
- 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.



April 6,2021





RELEASE FOR CONSTRUCTION horne Job Truss Truss Type Qty Summit/86 Hav **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 141010761 2731404 J1 Jack-Open 3 LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek adustries, Inc. Mon Apr 5 17:24:05 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, WfPbGr gMhxZvE2F0FalDBkYH_XPwglzTiBu ID:m1t2XGkUFyK2st1aXRSPCfy84v9-ueZmH 4-0-0 0-10-8 4-0-0 DATE 5.00 12 2 3x6 | 4x4 4-0-0 Plate Offsets (X,Y)--[2:0-1-15,0-4-3] SPACING-L/d **PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI Plate Grip DOL TCLL 25.0 1.15 TC 0.19 Vert(LL) 0.02 4-7 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.15 Vert(CT) -0.03 4-7 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-AS Weight: 12 lb BRACING-LUMBER-TOP CHORD Structural wood sheathing directly applied.

BOT CHORD

Rigid ceiling directly applied.

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

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=80(LC 12)

Max Uplift 3=-56(LC 12), 2=-43(LC 12), 4=-1(LC 12) Max Grav 3=116(LC 1), 2=245(LC 1), 4=71(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

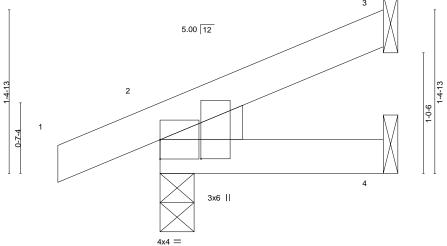






RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/86 Hav horne **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 145010762 2731404 J2 Jack-Open LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek adustries, Inc. Mon Apr 5 17:24:06 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:m1t2XGkUFyK2st1aXRSPCfy84v9-Mq78UKV HAuPd2 Fe48nGoD5_7RwBoQDB8TCCzTiBt 1-10-15 0-10-8 1-10-15 DATE 5.00 12



1-10-15

BRACING-

TOP CHORD

BOT CHORD

Plate Offse	Plate Offsets (X,Y) [2:0-1-15,0-4-3]											
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MP						Weight: 7 lb	FT = 20%

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=45(LC 12)

Max Uplift 3=-24(LC 12), 2=-32(LC 8), 4=-4(LC 12) Max Grav 3=47(LC 1), 2=161(LC 1), 4=32(LC 3)

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

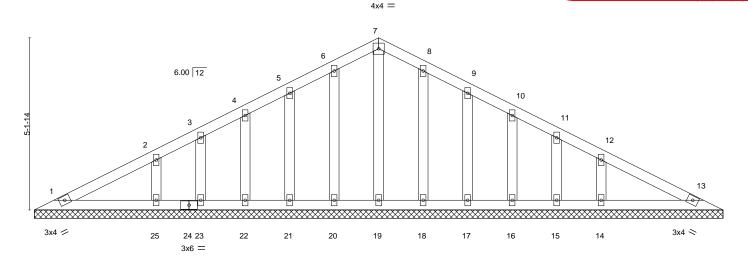
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions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



Structural wood sheathing directly applied or 1-10-15 oc purlins.



							RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Summit/86 Hav	horne	AS NOTED ON PLANS REVIEW
		0.5.5					CODES ADMINISTRA 1410の163
2731404	V1	GABLE	1	1	Job Reference (ptional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valley	Center), Valley Center, K						, Inc. Mon Apr 5 17:24:07 2021 Page 1
			ID:m1t2XGkUFy	K2st1aXRS	SPCfy84v9-q0hV	igXvxCX	gkpLbNJTKNyOTDfeQaSru0kezTiBs
	10-3-1	3			2	-7-10	
1	10-3-1	3			10	3-13	DATE



			20-7-10	
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.11	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) n/a - n/a 999 MT20 197/144	
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) n/a - n/a 999	
BCLL 0.0	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 13 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Weight: 83 lb FT = 20%	

20-7-10

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

Max Horz 1=-85(LC 13)

All bearings 20-7-10.

Max Uplift All uplift 100 lb or less at joint(s) 1, 20, 21, 22, 23, 25, 18, 17, 16, 15, 14

Max Grav All reactions 250 lb or less at joint(s) 1, 13, 19, 20, 21, 22, 23, 18, 17, 16, 15 except 25=280(LC

1), 14=280(LC 1)

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

NOTES-

REACTIONS.

- 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) 0-7-7 to 3-7-13, Exterior(2N) 3-7-13 to 10-3-13, Corner(3R) 10-3-13 to 13-3-13, Exterior(2N) 13-3-13 to 20-0-3 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) Truss designed for wind loads in the plane of the truss only. For study 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) 1, 20, 21, 22, 23,
- 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.

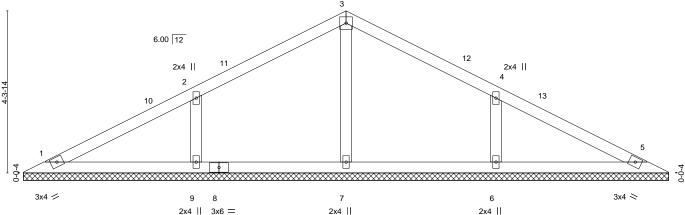


Structural wood sheathing directly applied or 6-0-0 oc purlins.

April 6,2021



								RELEASE FOR	CONSTRUCTION	
Job	Truss	Truss Type		Qty	Ply	Summit/86 Hav	horne	AS NOTED ON	PLANS REVIEW	
								CODES ADM	INISTRAI村のR764	
2731404	V2	Valley		1	1	Job Reference (ptional)	LEE'S SUMM	IT, MISSOURI	
Builders FirstSource	ce (Valley Center), Va	illey Center, KS - 67147,						s, Inc. Mon Apr 5 17:2		
			ID:m1	2XGkUF	yK2st1aXRS	SPCfy84v9-inw1Y	aQ?R1v	BY7V2BgJUJV0x?pGb	S29NTsEtPzTiBo	
		8-7-13	1			17-3-1)			
		8-7-13	'			8-7-13		DATE	1	
			4x4 =						0 1.00.7	
			3							
Ĭ										



0- <u>0-8</u> 0-0-8			7-3-10 7-3-2				
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 0.24 BC 0.11 WB 0.06 Matrix-S	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	(loc) l/de - n, - n, 5 n,	a 999 a 999	PLATES MT20 Weight: 48 lb	GRIP 197/144 FT = 20%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

2x4 SPF No.2

All bearings 17-2-10.

(lb) - Max Horz 1=-71(LC 13) Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-151(LC 12), 6=-151(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=286(LC 1), 9=432(LC 25), 6=432(LC 26)

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

2-9=-333/201, 4-6=-333/201 WEBS

NOTES-

REACTIONS.

- 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) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 8-7-13, Exterior(2R) 8-7-13 to 11-7-13, Interior(1) 11-7-13 to 16-8-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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, 5 except (jt=lb) 9=151, 6=151,
- 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.



Job 2731404	Truss V3	Truss Type Valley	Qty 1	Ply 1	Summit/86 Hav (horne Job Reference (optional)	LEE'S SHMMI	LANS REVIEW NISTRA 1710 10765
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		8.430 s Ma	r 22 2021 MiTek ndustrie SPCfy84v9-B_U INb2mk	s, Inc. Mon Apr 5 17:24:	12 2021 Page 1
	6-11-13		ID:m1t2XGkUF	yK2st1aXR	SPCfy84v9-B_U_INb2mk 13-1 I-10	MmoiicvBY0X2CkP9iKu	ıYJb7bnQrzTiBn
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3-5-14	6.00 12 2x4 9				11 12	4 ^{2x4}	5
	8	7			6		
3x4 🛩	2v4 II	2v4 II			2v4 II	3x4 ≥	

0-9-8 0-0-8			13-11-10 13-11-2						
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 0.17 BC 0.10 WB 0.05 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 37 lb	GRIP 197/144 FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 13-10-10. (lb) - Max Horz 1=-56(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7 except 8=-124(LC 12), 6=-124(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=320(LC 1), 8=348(LC 25), 6=348(LC 26)

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

2-8=-278/197, 4-6=-278/197 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 6-11-13, Exterior(2R) 6-11-13 to 9-11-13 , Interior(1) 9-11-13 to 13-4-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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, 5, 7 except (jt=lb) 8=124, 6=124.
- 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.





								RELEASE FO	R CONSTRUC	CTION
ob	Truss	Truss Type		Qty	Ply	Summit/86 Hav	horne	AS NOTED O		
731404	V4	Valley		1	1				MINISTRA 1	
731404	14	valley			'	Job Reference (ptional)	LEE'S SUN	MIT, MISSOU	JRI
Builders FirstSource (Va	alley Center), Valley Ce	enter, KS - 67147,			8.430 s Ma	r 22 2021 MiTek	ndustries,	Inc. Mon Apr 51	7:24:12 2021 Pag	e 1
		5-3-13	II	D:m1t2XGkUF	yK2st1aXR	SPCfy84v9-B_UP 10-7	Nb2mk9₽	MoiicvBY0X2AdP	8PKuXJb7bnQrzTi	Bn
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0-0-8 0-0-8			10-7-1 10-7-2							
0-0-0	1		10-7-2	_						
LOADING (psf)	SPACING-	2-0-0 CSI.			in (loc)	I/defI L/d		PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15 TC			/a -	n/a 999		MT20	197/144	
TCDL 10.0 BCLL 0.0	Lumber DOL Rep Stress Incr	1.15 BC YES WB			/a -	n/a 999 n/a n/a				
BCDL 10.0	Code IRC2018/TP			rz(CT) 0.0	00 3	n/a n/a		Weight: 26 lb	FT = 20%	
10.0	0000 11102010/11	.zo							11-2070	
I IIMRED.			RD	ACING-						

TOP CHORD

BOT CHORD

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

OTHERS 2x4 SPF No.2

REACTIONS. (size) 1=10-6-10, 3=10-6-10, 4=10-6-10 Max Horz 1=41(LC 16)

Max Uplift 1=-45(LC 12), 3=-53(LC 13), 4=-49(LC 12) Max Grav 1=195(LC 25), 3=195(LC 26), 4=459(LC 1)

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

2-4=-317/189 WEBS

NOTES-

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



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







							F	RELEASE FO	R CONSTRUC	CTION
lob	Truss	Truss Type		Qty	Ply	Summit/86 Hav	thorne		N PLANS REV	
2731404	V5	Valley		1	1	Job Reference (nntional)	LEE'S SUN	MIT, MISSOU	JRI
Builders FirstSource (Vall	ey Center), Valley	Center, KS - 67147,			8.430 s Ma	r 22 2021 MiTek	ndustries, I	nc. Mon Apr 51	7:24:13 2021 Pag	e 1
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0-0-8 0-0-8				7-3-10						
0-0-8				7-3-2					<u> </u>	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d		PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.16		ı/a -	n/a 999		MT20	197/144	
TCDL 10.0	Lumber DOL	1.15 YES	BC 0.08		ı/a -	n/a 999				
BCLL 0.0 BCDL 10.0	Rep Stress Incr Code IRC2018/7		WB 0.03 Matrix-P	Horz(CT) 0.0	00 3	n/a n/a		Weight: 17 lb	FT = 20%	
LUMBER- TOP CHORD 2x4 SPF	No 2			BRACING- TOP CHORD	Structur	ral wood sheathir	a directly	applied or 6.0.0	oc purling	
101 0110ND 2X4 3FF	INU.Z			TOF CHORD	Structu	ai wood silealill	ig uneclly	applied of 0-0-0	oc purins.	

BOT CHORD

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

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

BOT CHORD OTHERS 2x4 SPF No.2

REACTIONS. (size) 1=7-2-10, 3=7-2-10, 4=7-2-10

Max Horz 1=27(LC 16)

Max Uplift 1=-36(LC 12), 3=-41(LC 13), 4=-19(LC 12) Max Grav 1=138(LC 1), 3=138(LC 1), 4=267(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, 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.







RELEASE FOR CONSTRUCTION horne Job Truss Truss Type Qty Summit/86 Hav **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 141010768 2731404 V₆ Valley LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek adustries, Inc. Mon Apr 5 17:24:14 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:m1t2XGkUFyK2st1aXRSPCfy84v9-7Mc9 A3dIHMF<mark>BY5s4jKE06y7aBDraoomc3R4uUkzŤiBI</mark> 3-11-10 1-11-13 1-11-13 DATE 3x6 = 2 6.00 12 3

> 2x4 > 2x4 /

				3-11-2		0-0-8
Plate Offs	sets (X,Y)	[2:0-3-0,Edge]				
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc	c) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) n/a	- n/a 999	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.07	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: 8 lb FT = 20%

3-11-2

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-11-10 oc purlins.

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

REACTIONS. (size) 1=3-10-10, 3=3-10-10

Max Horz 1=-12(LC 17) Max Uplift 1=-20(LC 12), 3=-20(LC 13)

Max Grav 1=122(LC 1), 3=122(LC 1)

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

NOTES-

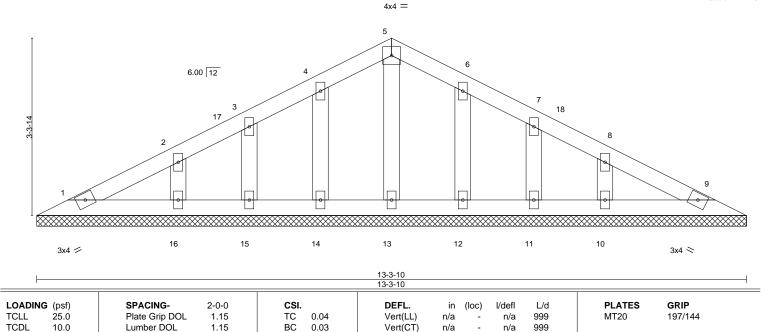
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left 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.



3-1₁1₁10



						7	RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Summit/86 Hav	horne	AS NOTED ON PLANS REVIEW
							CODES ADMINISTRA 1410 10769
2731404	V7	GABLE	1	1	lah Dafaranas	ntional	LEE'S SUMMIT, MISSOURI
					Job Reference		· ·
Builders FirstSource (Valley (Center), Valley Center, K						, Inc. Mon Apr 5 17:24:14 2021 Page 1
		I	D:m1t2XGkUFyl	K2st1aXRS	PCfy84v9-7Mc9	3dIHMF	5s4jKE06y7aDDsLooPc3R4uUkzTiBl
1	6-7-13	1	•			3-3-10	
	6-7-13	ı				-7-13	DATE
							0 4.04.0



Horz(CT)

BRACING-TOP CHORD

BOT CHORD

0.00

9

n/a

n/a

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

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

Weight: 44 lb

FT = 20%

LUMBER-

BCLL

BCDL

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

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

0.0

10.0

REACTIONS. All bearings 13-3-10. Max Horz 1=53(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 14, 15, 16, 12, 11, 10 Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 14, 15, 16, 12, 11, 10

YES

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.

Rep Stress Incr

Code IRC2018/TPI2014

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) 0-7-7 to 3-7-7, Exterior(2N) 3-7-7 to 6-7-13, Corner(3R) 6-7-13 to 9-7-13, Exterior(2N) 9-7-13 to 12-8-3 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

WB

Matrix-S

0.02

- 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) 1, 9, 14, 15, 16, 12, 11, 10.
- 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.



DELEASE FOR CONSTRUCTION

April 6,2021







									RELEASE F	OR CONSTRU	JCTION
Job		Truss	Truss Type		Qty	Ply	Summit/86 Ha	horne		ON PLANS R ADMINISTRA	
2731404		V8	Valley		1	1	Job Reference	optional)		JMMIT, MISSO	
Builders Fi	rstSource (Valley	Center), Valley Center,	KS - 67147,		8	3.430 s Ma	ar 22 2021 MiTek	ndustries,	Inc. Mon Apr 5	17:24:15 2021 P	age 1
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	0-0-8			9-11-2						1	
LOADING	(psf)	SPACING- 2-0	-0 CSI.	DEFL.	in	ı (loc)	l/defl L/d		PLATES	GRIP	
TCLL	25.0	Plate Grip DOL 1.					n/a 999		MT20	197/144	
TCDL	10.0	Lumber DOL 1.	15 BC 0.16				n/a 999				
BCLL	0.0	Rep Stress Incr YE	S WB 0.04	Horz(C	T) 0.00	3	n/a n/a				

BRACING-

TOP CHORD

BOT CHORD

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

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

Weight: 25 lb

FT = 20%

LUMBER-

BCDL

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

BOT CHORD OTHERS 2x4 SPF No.2

10.0

REACTIONS. 1=9-10-10, 3=9-10-10, 4=9-10-10 (size)

Max Horz 1=-38(LC 17)

Code IRC2018/TPI2014

Max Uplift 1=-42(LC 12), 3=-50(LC 13), 4=-45(LC 12) Max Grav 1=181(LC 25), 3=181(LC 26), 4=427(LC 1)

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

WEBS 2-4=-295/184

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 4-11-13, Exterior(2R) 4-11-13 to 7-11-13 , Interior(1) 7-11-13 to 9-4-1 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

Matrix-S

- 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.







RELEASE FOR CONSTRUCTION horne Job Truss Truss Type Qty Summit/86 Hav **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 150 10771 2731404 V9 Valley LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek adustries, Inc. Mon Apr 5 17:24:16 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, keYpzfOBYOTrkGUBNCvP0XFGiuuWkZ?ZczTiBj ID:m1t2XGkUFyK2st1aXRSPCfy84v9-3ljw 3-3-13 DATE 4x4 = 2 6.00 12 3 4-0-0 7-0-6 4 2x4 / 2x4 || 2x4 < 6-7-10 0-0-8 6-7-2 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 0.13 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.06 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.02 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 16 lb FT = 20%

> **BRACING-**TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SPF No.2

REACTIONS.

1=6-6-10, 3=6-6-10, 4=6-6-10 (size) Max Horz 1=24(LC 16)

Max Uplift 1=-32(LC 12), 3=-36(LC 13), 4=-17(LC 12) Max Grav 1=123(LC 1), 3=123(LC 1), 4=237(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, 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.



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

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







RELEASE FOR CONSTRUCTION horne Job Truss Truss Type Qty Summit/86 Hav **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 145010772 Valley 2731404 V10 LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek adustries, Inc. Mon Apr 5 17:24:08 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ?YXiWf**BH**AOwN37cshtYzophO5HjgVdaG4zTiBr ID:m1t2XGkUFyK2st1aXRSPCfy84v9-ICF 1-7-13 DATE 3x6 = 6.00 12 3 0-0-4 -0-C

> 2x4 / 2x4 >

> > Matrix-P

3-3-10 0¹0¹8 Plate Offsets (X,Y)--[2:0-3-0,Edge] SPACING-**PLATES** GRIP LOADING (psf) CSI. DEFL. in (loc) I/defI L/d Plate Grip DOL TCLL 25.0 1.15 TC 0.03 Vert(LL) n/a 999 MT20 197/144 n/a TCDL 10.0 Lumber DOL 1.15 ВС 0.04 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

LUMBER-

BCDL

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

10.0

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-3-10 oc purlins.

Weight: 6 lb

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

REACTIONS. 1=3-2-10, 3=3-2-10 (size)

Max Horz 1=9(LC 12) Max Uplift 1=-15(LC 12), 3=-15(LC 13)

Max Grav 1=92(LC 1), 3=92(LC 1)

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

Code IRC2018/TPI2014

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.



FT = 20%







RELEASE FOR CONSTRUCTION horne Job Truss Truss Type Qty Summit/86 Hav **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 141010773 2731404 V11 Valley LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek adustries, Inc. Mon Apr 5 17:24:08 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ?YXiWftBIXOwN37cshtXAon4O5HjgVdaG4zTiBr ID:m1t2XGkUFyK2st1aXRSPCfy84v9-ICFu 2-5-13 2-5-13 DATE 3x6 =2 6.00 12 3 0-0-4 2x4 / 2x4 > 4-11-10 4-11-2 Plate Offsets (X,Y)-[2:0-3-0,Edge] SPACING-DEFL. **PLATES** GRIP LOADING (psf) CSI. in (loc) I/defI L/d Plate Grip DOL TCLL 25.0 1.15 TC 0.08 Vert(LL) 999 MT20 197/144 n/a n/a TCDL 10.0 Lumber DOL 1.15 ВС 0.14 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 Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-P Weight: 10 lb BRACING-LUMBER-

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 4-11-10 oc purlins.

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

REACTIONS. 1=4-10-10, 3=4-10-10 (size)

Max Horz 1=16(LC 12)

Max Uplift 1=-28(LC 12), 3=-28(LC 13) Max Grav 1=167(LC 1), 3=167(LC 1)

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

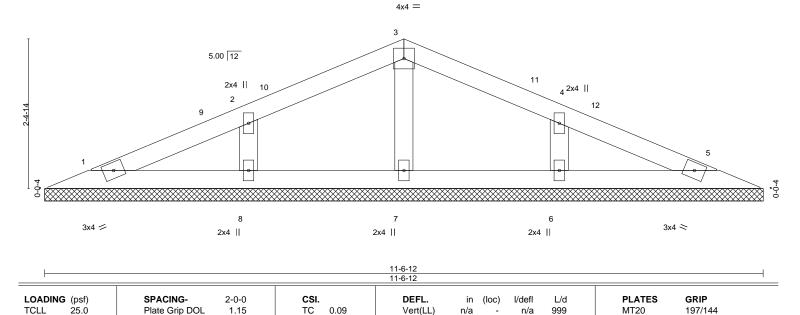
NOTES-

- 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.





						_	RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Summit/86 Hav	horne	AS NOTED ON PLANS REVIEW
							CODES ADMINISTRA 1450 10774
2731404	V12	GABLE	1	1	Job Reference (ontional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8				s, Inc. Mon Apr 5 17:24:09 2021 Page 1
		ID:m	1t2XGkUFyK2	st1aXRSP	Cfy84v9-mPoG7	_Z9Tpn0	RYz7wmerPuQigC9t7Y4sv9N7pWzTiBq
1	5-9-6	1	•		1	-6-12	
	5-9-6	1				-9-6	DATE
							0.44.5



n/a

n/a

0.00

Vert(CT)

Horz(CT)

BRACING-TOP CHORD

BOT CHORD

n/a

n/a

n/a

5

999

n/a

MT20

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

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

Weight: 29 lb

FT = 20%

LUMBER-TOP CHORD

TCDL

BCLL

BCDL

2x4 SPF No 2 2x4 SPF No.2

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

10.0

0.0

10.0

REACTIONS. All bearings 11-6-12.

Max Horz 1=-37(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=271(LC 25), 6=271(LC 26)

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

NOTES-

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

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

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) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 5-9-6, Exterior(2R) 5-9-6 to 8-9-6, Interior(1) 8-9-6 to 10-9-11 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

0.09

0.04

0.03

ВС

WB

Matrix-S

- 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.

1.15

YES

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 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.



DELEASE FOR CONSTRUCTION

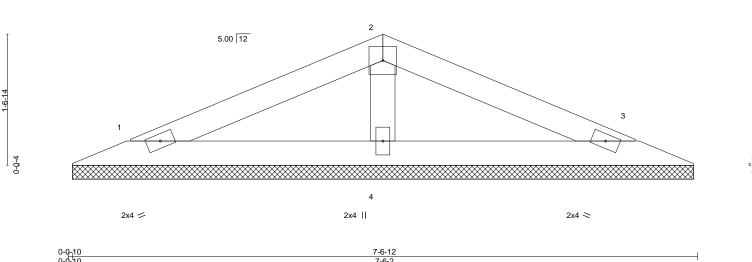






							RELEASE FOR C	ONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Summit/86 Hav	horne	AS NOTED ON P	LANS REVIEW
							CODES ADMIN	NSTRAI†∮ØRI ⁷⁷⁵
2731404	V13	Valley	1	1	Job Reference	ptional)	LEE'S SUMMIT	r, MISSOURI
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					ndustries, Inc. Mon Apr 5 17:24:10 2021 Page 1			
	ID:m1t2XGkUFyl	<2st1aXRS	PCfy84v9-EbMfk	nanE7v3	nE7v3 VYJUU94x6ysMbTbs?M08p6hLzzTiBp			
3-9-6					7-6-12			
ı	1		3-9-6		DATE			
								0.1. 440.0

4x4 =



		7-0-2										
LOADING	\(\(\)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.16	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	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matri	x-P	. ,					Weight: 17 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SPF No.2

REACTIONS. 1=7-5-8, 3=7-5-8, 4=7-5-8 (size)

Max Horz 1=-22(LC 13)

Max Uplift 1=-35(LC 12), 3=-39(LC 13), 4=-22(LC 12) Max Grav 1=135(LC 1), 3=135(LC 1), 4=275(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, 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.



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

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

April 6,2021





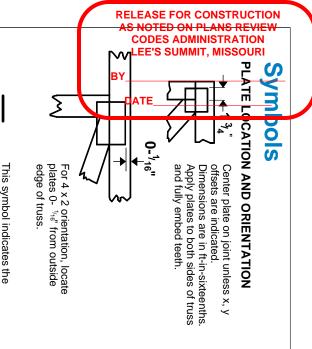


PLATE SIZE

* Plate location details available in MiTek 20/20

connector plates.

required direction of slots in

software or upon request.

4 × 4

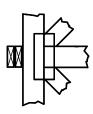
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

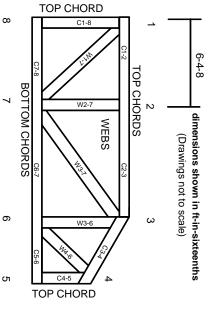
Min size shown is for crushing only

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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