

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

Re: 2714885 C&H/23 OSAGE

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: I45730318 thru I45730357

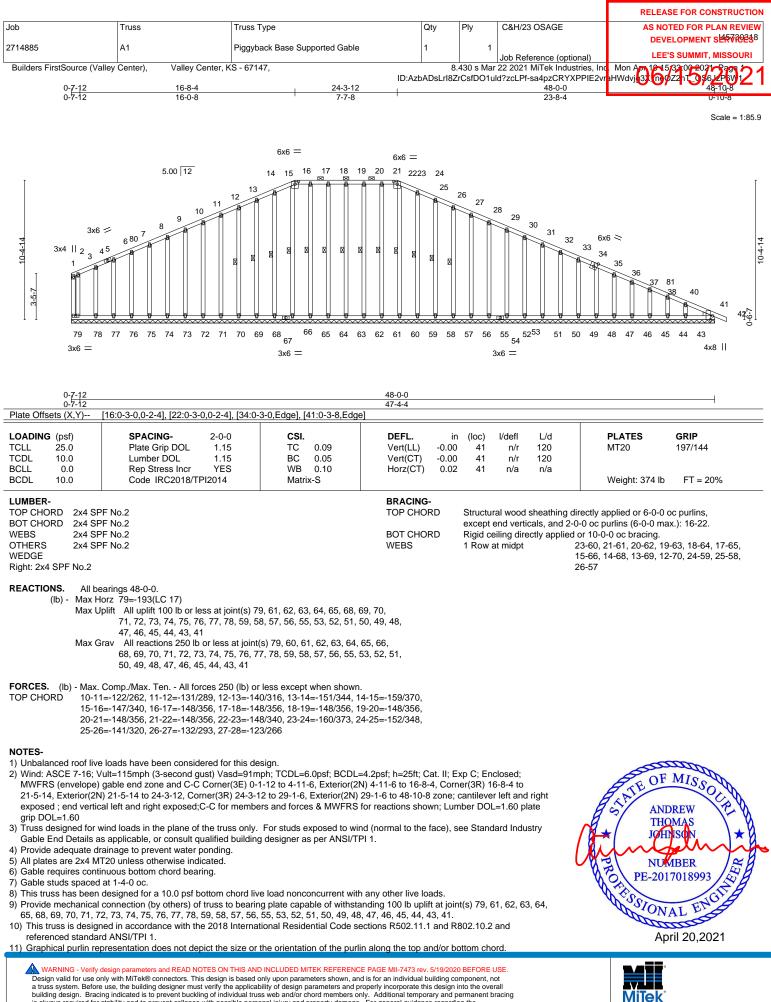
My license renewal date for the state of Missouri is December 31, 2021.

Missouri COA: Engineering 001193

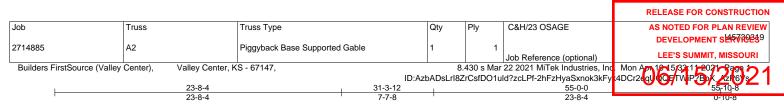


April 20,2021

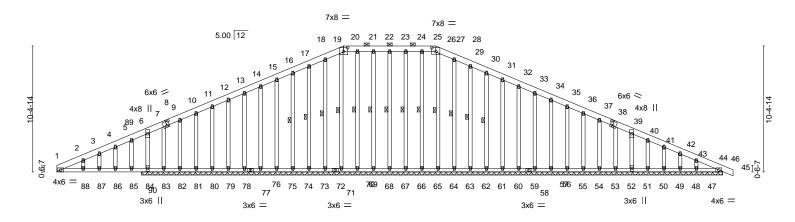
Johnson, Andrew , Engineer **IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-74/3 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Scale: 1/8"=1'



			<u>55-0-0</u> 55-0-0						
Plate Offsets (X	,Y) [8:0-2-8,0-4-4], [20:0-4-0,0-3-13], [26:0-	4-0,0-3-13], [38:0-2-8,0-4							
LOADING (psf TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.55 BC 0.49 WB 0.17 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 0.05	(loc) 45 45 45	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 426 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD BOT CHORD	2x6 SPF No.2 2x4 SPF No.2 2x4 SPF No.2		BRACING- TOP CHOR BOT CHOR WEBS	D	except 2-0-0 o Rigid c	c purlins	(10-0-0 max ectly applied	irectly applied or 6-8-11	oc purlins, -67, 22-68, 21-69,
REACTIONS. (lb) -	All bearings 48-0-0. Max Horz 84=-185(LC 17) Max Uplift All uplift 100 lb or less at joint(s) 6 75, 76, 78, 79, 80, 81, 82, 63, 62, 6 50, 49, 48, 47 except 83=-528(LC 1 Max Grav All reactions 250 lb or less at joint 75, 76, 78, 79, 80, 81, 82, 83, 63, 6 51, 50, 49, 48, 47, 45 except 64=26	1, 60, 59, 57, 56, 55, 54,), 84=-379(LC 8), 45=-20 (s) 65, 66, 67, 68, 69, 72, 2, 61, 60, 59, 57, 56, 55,	53, 52, 51, 05(LC 25) 73, 74, 54, 53, 52,						
FORCES. (Ib) TOP CHORD	- Max. Comp./Max. Ten All forces 250 (lb) or 1-2=-783/583, 2-3=-802/615, 3-4=-810/649, . 7-9=-626/604, 9-10=-611/617, 10-11=-576/6 13-14=-494/610, 14-15=-467/610, 15-16=-44 18-19=-353/597, 19-20=-287/499, 20-21=-31 23-24=-311/547, 24-25=-311/547, 25-26=-31 28-29=-387/614, 29-30=-413/611, 30-31=-44 33-34=-521/610, 34-35=-548/610, 35-36=-57 39-40=-657/610, 40-41=-684/610, 41-42=-71 4/4_5=-325/638	4-5=-836/698, 5-6=-817/7 10, 11-12=-548/610, 12-1 0/610, 16-17=-413/611, 1 1/547, 21-22=-311/547, 2 1/547, 26-27=-287/499, 2 0/610, 31-32=-467/610, 3 5/610, 36-37=-602/610, 3	'08, 6-7=-444/449, 13=-521/610, 17-18=-387/614, 22-23=-311/547, 27-28=-353/597, 32-33=-494/610, 37-39=-629/610,					Sec OF	MISS
BOT CHORD	44-45=-825/638 1-88=-547/811, 87-88=-547/811, 86-87=-547 83-84=-547/772, 82-83=-547/772, 81-82=-54 78-79=-547/772, 76-78=-547/772, 75-76=-54 72-73=-547/772, 70-72=-547/772, 69-70=-54 66-67=-547/772, 65-66=-547/772, 64-65=-54 61-62=-547/772, 60-61=-547/772, 53-60=-54 55-56=-547/772, 49-50=-547/772, 53-54=-54 50-51=-547/772, 49-50=-547/772, 48-49=-54 7-83=-489/309, 6-84=-756/953	7/772, 80-81=-547/772, 7 7/772, 74-75=-547/772, 7 7/772, 68-69=-547/772, 6 7/772, 63-64=-547/772, 6 7/772, 57-59=-547/772, 5 7/772, 52-53=-547/772, 5	79-80=-547/772, 73-74=-547/772, 67-68=-547/772, 62-63=-547/772, 56-57=-547/772, 51-52=-547/772,				(THO JOIN	REW MAS SON BER 7018993
NOTES-	roof live loads have been considered for this de	sign.						RESSION.	AL ENGINE

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



April 20,2021

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	C&H/23 OSAGE	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
2714885	A2	Piggyback Base Supported Gable	1	1		LEE'S SUMMIT. MISSOURI
					Job Reference (optional)	LEE S SUMINIT, MISSOURI
Builders FirstSource (Valley	Center), Valley Center, K	(S - 67147,	8.	430 s Mar	22 2021 MiTek Industries, Inc	Mon Apri 19-15/33:12-2021 Page 2
			ID:AzbADsLrl82	ZrCsfDO1u	ld?zcLPf-WtpMUlb4i5wbguq8	HokROIA/ OnTCryYE/42dzP6/r

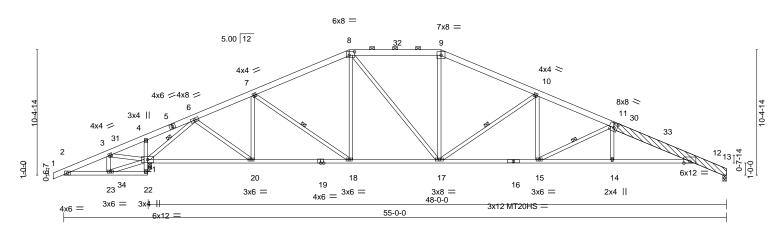
NOTES-

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-0-0 to 5-6-0, Exterior(2N) 5-6-0 to 23-8-4, Corner(3R) 23-8-4 to 29-2-4, Exterior(2N) 29-2-4 to 31-3-12, Corner(3R) 31-3-12 to 36-10-0, Exterior(2N) 36-10-0 to 55-10-8 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 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.
- b) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 65, 66, 67, 68, 69, 70, 72, 73, 74, 75, 76, 78, 79, 80, 81, 82, 63, 62, 61, 60, 59, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47 except (jt=lb) 83=528, 84=379, 45=205.
- 9) Non Standard bearing condition. Review required.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



									RELEAS	E FOR CONSTRUC	TION
Job	Truss	Truss Type		Qty	Ply	C&H/23 OSA	\GE		AS NOT	ED FOR PLAN REV	IEW
2714885	A3	Piggyback Base		2	1				DEVE		380
2114000				-		Job Reference	e (optional	I)	LEE'S	SUMMIT, MISSOU	RI
Builders FirstSource (Valley	Center), Valley Center, H	S - 67147,								33 13 2021 Base 2	24
			IC	AzbADsL:	.rl8ZrCsfD	O1uld?zcLPf-	_4NkhebiT	P2SI2F	PKrVFgw AUE/1	rxJxiSY4e36zP6Vo	
-0 ₁ 0 ₁ 8 3-8-9	6-11-8 10-10-7 12-6-7 15	-8-4 18-1-5 23-8-4	31-3-12		37-11-10	3p-3-1 ₂	44-7-8	45-4 ₁ 8	3 51-3-6	55-0-0 55-10-8	
0 ¹ 10 ¹ 8 3-8-9	3-2-15 3-10-15 1-7-15 3-	I-13 2-5-1 5-6-15	7-7-8		6-7-14	1-4-2	5-3-12	0 ¹ -9 <mark>-0</mark>	3-10-14	3-0-10 0-10-0	

Scale: 1/8"=1'



3-	8-9 ₁ 6-11-87- Q -0	15-3-14 15 _r 8-		31-3-12	1	39-3-12	41-3-9 4	4-7-8 45-4 ₁ 8 51-3-6	55-0-0
Plate Offsets (X,Y)	8-9 <u>3-2-150-0-8</u>) [8:0-5-4,0-3-8], [1	8-3-14 0-4-6	8-0-0	7-7-8		8-0-0	1-11-13 3	-3-15 0-9-0 5-10-14	3-8-10
Fiale Offsets (X, I)	[0.0-3-4,0-3-6], [1	1.0-3-4,0-4-0]							
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip Lumber DC Rep Stress Code IRC2	DOL 1.15 DL 1.15	CSI. TC 0.56 BC 0.74 WB 0.63 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.40 -0.76 1 0.36	(loc) l/defl 15 >999 5-17 >758 13 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 319 I	GRIP 197/144 148/108 b FT = 20%
LUMBER-	6 SPF No.2 *Except*			BRACING- TOP CHOR		Structural wood	l sheathing d	lirectly applied, except	
11 BOT CHORD 2x 12 WEBS 2x OTHERS 2x	-13: 2x8 SP 2400F 2.0 4 SPF No.2 *Except* -16: 2x4 SP 2400F 2.0 4 SPF No.2 8 SP 2400F 2.0E -13 2x8 SP 2400F 2.0I	E, 16-19: 2x4 SPF 1	650F 1.5E	BOT CHOR WEBS	2 D F	2-0-0 oc purlins Rigid ceiling dir 1 Row at midpt	(4-1-6 max. ectly applied): 8-9.	
М	(size) 21=0-3-8 (red ax Horz 21=187(LC 10 ax Uplift 21=-510(LC 1 ax Grav 21=2889(LC	6) 2), 13=-393(LC 13)							
TOP CHORD 2	2-3=-429/549, 3-4=-117 3-9=-2777/591, 9-10=-3	78/1255, 4-6=-1132/1 3107/587, 10-11=-433	r less except when shown 173, 6-7=-2692/418, 7-8= 32/798, 11-12=-5542/996	=-2797/480, , 12-13=-804/172					
WEBS 8	15-17=-513/3918, 14-1 3-18=-14/306, 8-17=-19	5=-840/5267, 12-14= 99/637, 9-17=-57/611	, 7-20=-545/312, 10-15=-	-90/783,					
	10-17=-1402/398, 3-23 11-14=0/262, 6-21=-34	,	73/459, 3-21=-665/766, 1 183	1-15=-1495/363,					
starting at 0-0-6 2-9-2.	from end at joint 11, n	ail 2 row(s) at 7" o.c.	⁵ 2.0E with 2 row(s) of 10 for 2-0-0; starting at 5-5-6				c. for	STE O	F MISSOL
3) Wind: ASCE 7- MWFRS (envel- Exterior(2R) 31- exposed;C-C fo	ope) gable end zone an -3-12 to 39-3-12, Interio r members and forces	cond gust) Vasd=91r nd C-C Exterior(2E) - or(1) 39-3-12 to 54-10 & MWFRS for reaction	esign. nph; TCDL=6.0psf; BCDL 0-10-8 to 4-7-8, Interior(1)-4 zone; cantilever left ar ons shown; Lumber DOL=) 4-7-8 to 23-8-4, Ex nd right exposed ; e	kterior(2 nd vertio	E) 23-8-4 to 31			NDREW HOMAS HNSCN
5) All plates are M6) This truss has b		rwise indicated. 0 psf bottom chord li	ve load nonconcurrent wit	th any other live load	ds.				MBER 24 1 017018993
 Bearing at joint(capacity of bear 	ring surface.	el to grain value using	n input bearing size. ANSI/TPI 1 angle to grain ng plate capable of withst						VAL ENGINE
21=510, 13=393	3.	,	ational Residential Code s			,	, ,		val 20,2021
Continuierennenbate									·••••
Design valid for	use only with MiTek® conner	ctors. This design is based	D INCLUDED MITEK REFEREN only upon parameters shown, a bility of design parameters and	nd is for an individual bui	Iding comp	ponent, not			0



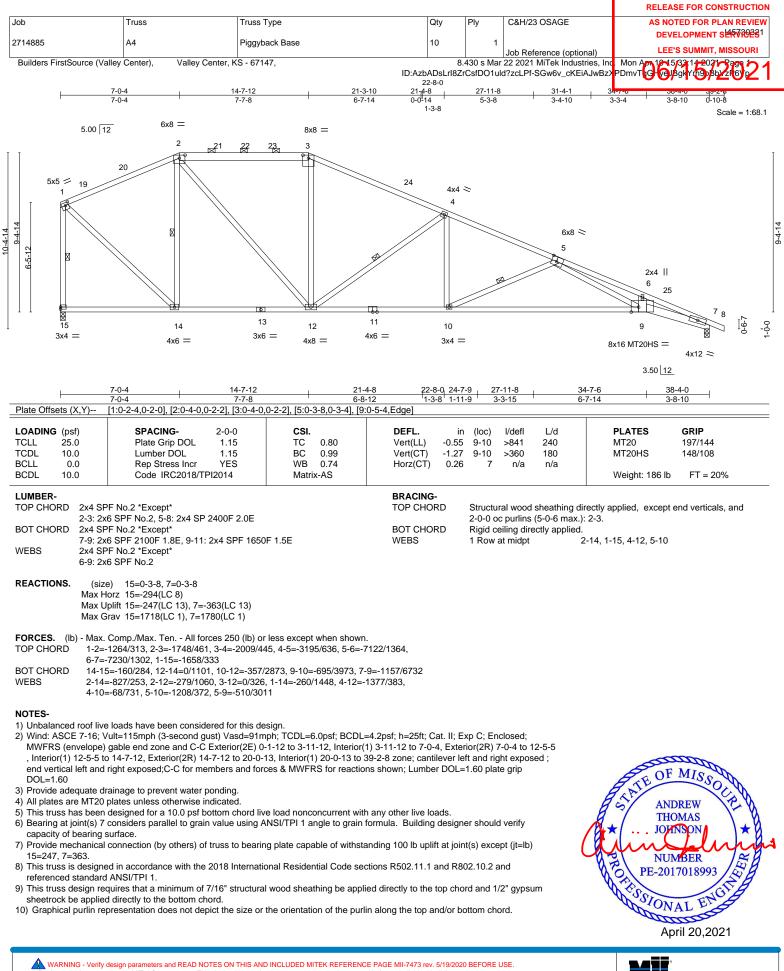
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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	Ply	C&H/23 OSAGE	AS NOTED FOR PLAN REVIEW
2714885	4.2	Diago the elf Dese	2	1		DEVELOPMENT SERVICES
2714885	A3	Piggyback Base	2	1	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valle	y Center), Valley Center, ł	(S - 67147,	8	.430 s Mar	22 2021 MiTek Industries, Ind	Mon Apr 19 15 33:13 2021 Page 2
NOTES-			ID:AzbADs	LrI8ZrCsfD	O1uld?zcLPf4NkhebiTP2SI	
11) This truck design rea	uiroc that a minimum of 7/16"	structural wood sheathing he applied directly t	a tha tap a	ord and 1	/2" avacum chootrock ho or	plied directly to the

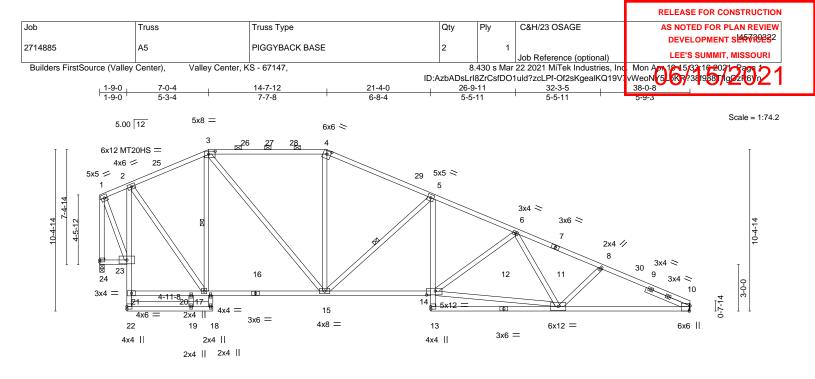
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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





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1-9- 1-9- Plate Offsets (X,Y)		6-8-4		29-6-8 8-2-8		38-0-8 8-6-0	1
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.93 BC 0.96 WB 0.67 Matrix-S	Vert(LL) -0.2	in (loc) l/defl 2 14-15 >999 5 11-13 >999 1 10 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 207 lb	GRIP 197/144 148/108 FT = 20%
3-4: 2x BOT CHORD 2x4 SF 2-22: 2 WEBS 2x4 SF	PF No.2 *Except* 4 SPF 1650F 1.5E PF No.2 *Except* 2x4 SPF 1650F 1.5E PF No.2 2x4 SPF No.2 -t 3-0-12		BRACING- TOP CHORD BOT CHORD WEBS	except end vert	icals, and 2-0-0 ectly applied or g: 21-23 g: 10-11. ng: 17-20	ectly applied or 2-2-0 o 0 oc purlins (2-2-0 ma r 10-0-0 oc bracing, 1 15, 3-17	x.): 3-4.
Max L	e) 24=0-3-8, 10=Mechanical lorz 24=-262(LC 13) lplift 24=-223(LC 13), 10=-350(LC 13) Grav 24=1728(LC 1), 10=1710(LC 1)		WEBS	T Kow at mupt	J-	10, 0-17	

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

 TOP CHORD
 1-2=-576/186, 2-3=-1213/326, 3-4=-1713/470, 4-5=-1948/466, 5-6=-2859/630, 6-8=-3174/685, 8-10=-3433/725, 1-24=-1465/337

 BOT CHORD
 23-24=-147/306, 2-23=-1327/303, 20-21=0/461, 17-20=0/461, 15-17=0/1092, 14-15=-329/2598, 5-14=-118/719, 10-11=-584/3022

 WEBS
 4-15=0/343, 5-15=-1193/363, 11-14=-450/2721, 6-14=-423/191, 1-23=-328/1306, 3-17=-783/163, 3-15=-243/1022, 2-17=-142/1064

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-11-6, Interior(1) 3-11-6 to 7-0-4, Exterior(2R) 7-0-4 to 12-4-13, Interior(1) 12-4-13 to 14-7-12, Exterior(2R) 14-7-12 to 20-0-5, Interior(1) 20-0-5 to 38-0-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Provide adequate drainage to prevent water ponding.
 All plates are MT20 plates unless otherwise indicated.

The Debriceties Televisies Unless OtherWise

5) The Fabrication Tolerance at joint 4 = 8%

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

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

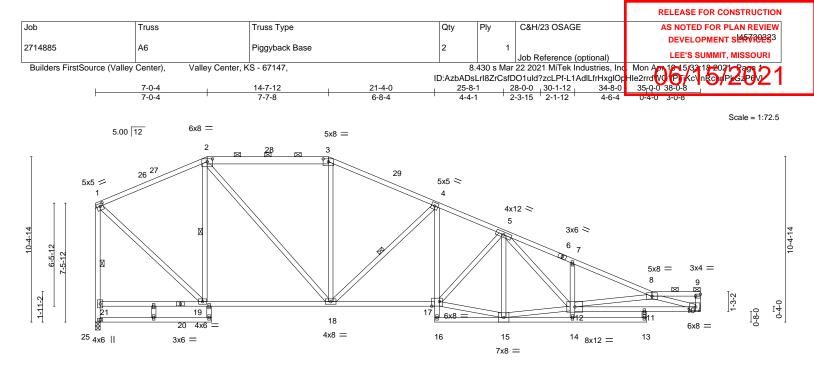
 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 24=223, 10=350.

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

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

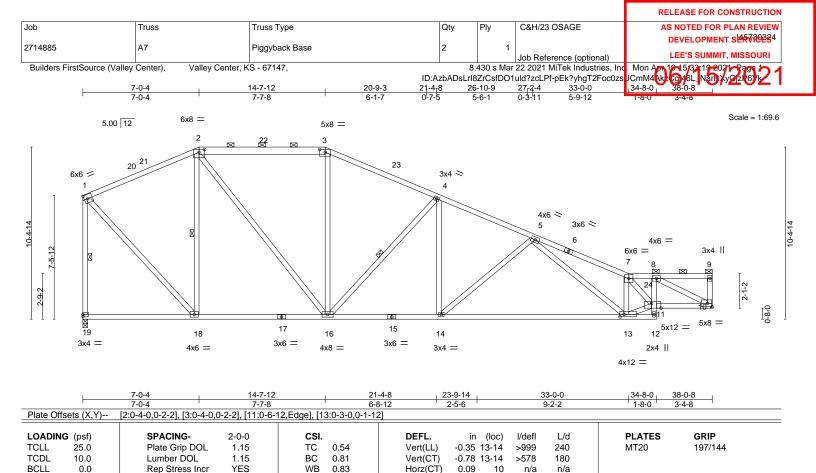


16023 Swingley Ridge Rd Chesterfield, MO 63017



3	3-7-14 7-0-4 7-3-8 14-7- 3-7-14 3-4-6 0-3-4 7-4-		-4-0 25- 8-4 4-4		28-0-0 30-1-12 2-3-15 2-1-12	<u>34-8-0</u> <u>35-0-0</u> <u>38-0-8</u> <u>4-6-4</u> <u>0-4-0</u> <u>3-0-8</u>	<u> </u>
Plate Offsets (X,Y)	[1:0-2-4,0-2-0], [2:0-4-0,0-2-2], [3:0-4-0),0-2-2], [9:Edge,0-1-8], [10):0-4-8,0-3-0], [17:0-5-1	2,0-3-8]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.70 BC 0.91 WB 0.91 Matrix-AS	Vert(LL) -0.2	in (loc) 7 14-15 8 14-15 2 10	l/defl L/d >999 240 >944 180 n/a n/a	PLATES MT20 Weight: 221 lb	GRIP 197/144 FT = 20%
BOT CHORD 2x4 SF 10-12:	PF No.2 *Except* x6 SPF No.2 PF No.2 *Except* : 2x4 SPF 1650F 1.5E PF No.2		BRACING- TOP CHORD BOT CHORD WEBS	2-0-0 o Rigid c	ral wood sheathing c purlins (5-0-1 ma eiling directly applie at midpt		end verticals, and
Max H Max U	ze) 25=0-3-8, 10=Mechanical Horz 25=-298(LC 10) Jplift 25=-244(LC 8), 10=-311(LC 13) Grav 25=1699(LC 1), 10=1699(LC 1)						
TOP CHORD 1-2=- 7-8=- BOT CHORD 19-2 10-1 WEBS 2-18: 7-12:	. Comp./Max. Ten All forces 250 (lb) c -1247/339, 2-3=-1714/444, 3-4=-1952/4 3879/683, 8-9=-251/0, 21-25=-1699/34 21=-193/310, 18-19=-107/1087, 17-18=- 1=-887/4544 =-238/1031, 3-18=0/335, 4-18=-1166/3 =-374/191, 8-12=-1016/296, 5-15=-858, 7=-354/2524, 1-19=-288/1425	47, 4-5=-2808/531, 5-7=-3 7, 1-21=-1636/333 354/2569, 4-17=-122/732, 50, 8-10=-4583/948, 2-19=	1872/776, 11-12=-887/4544, -820/308,				
 Wind: ASCE 7-16; MWFRS (envelope) Interior(1) 10-9-14 to end vertical left and DOL=1.60 Provide adequate di 4) All plates are 2x4 M This truss has been Refer to girder(s) for 	re loads have been considered for this d Vult=115mph (3-second gust) Vasd=91r) gable end zone and C-C Exterior(2E) (to 14-7-12, Exterior(2R) 14-7-12 to 18-5 d right exposed;C-C for members and for drainage to prevent water ponding. MT20 unless otherwise indicated. In designed for a 10.0 psf bottom chord li or truss to truss connections. 25 considers parallel to grain value using surface.	nph; TCDL=6.0psf; BCDL= 0-1-12 to 3-11-6, Interior(1) -6, Interior(1) 18-5-6 to 37- rces & MWFRS for reaction ve load nonconcurrent with	3-11-6 to 7-0-4, Exteri 10-12 zone; cantilever hs shown; Lumber DOI n any other live loads.	or(2R) 7-0 left and rig _=1.60 pla	ŀ-4 to 10-9-14, jht exposed ; te grip	THO	MAS NON

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



BRACING-

TOP CHORD

BOT CHORD

WEBS

	Max Grav 10=1699(LC 1), 19=1699(LC 1)
FORCES. (lb)	Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1133/325, 2-3=-1540/423, 3-4=-1764/425, 4-5=-2493/464, 5-7=-3345/588,
	7-8=-2846/495, 1-19=-1640/359
BOT CHORD	18-19=-187/277, 16-18=-134/981, 14-16=-333/2232, 13-14=-477/2690, 12-13=-118/308,
	8-11=-242/1434, 10-11=-539/2903
WEBS	2-18=-859/289, 2-16=-225/981, 3-16=0/284, 7-13=-1267/342, 11-13=-449/3037,
	7-11-300/22 8-10-3187/576 1-18-286/1301 4-14-72/582 4-16-1012/306

7-11=-390/22, 8-10=-3187/576, 1-18=-286/1391, 4-14=-72/582, 4-16=-1012/306, 5-14=-602/234, 5-13=-45/495

Code IRC2018/TPI2014

NOTES-

BCDL

WEBS

LUMBER-

TOP CHORD

BOT CHORD

REACTIONS.

10.0

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-11-6, Interior(1) 3-11-6 to 7-0-4, Exterior(2R) 7-0-4 to 10-9-14, Interior(1) 10-9-14 to 14-7-12, Exterior(2R) 14-7-12 to 18-5-6, Interior(1) 18-5-6 to 37-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-AS

3) Provide adequate drainage to prevent water ponding.

2x4 SPF No.2 *Except*

2x4 SPF No.2 *Except*

12-15: 2x4 SPF 1650F 1.5E

Max Horz 19=-289(LC 10)

(size) 10=Mechanical, 19=0-3-8

Max Uplift 10=-314(LC 13), 19=-242(LC 8)

2-3: 2x6 SPF No.2

2x4 SPF No.2

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

- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=314, 19=242.

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

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

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



FT = 20%

Weight: 200 lb

Structural wood sheathing directly applied, except end verticals, and

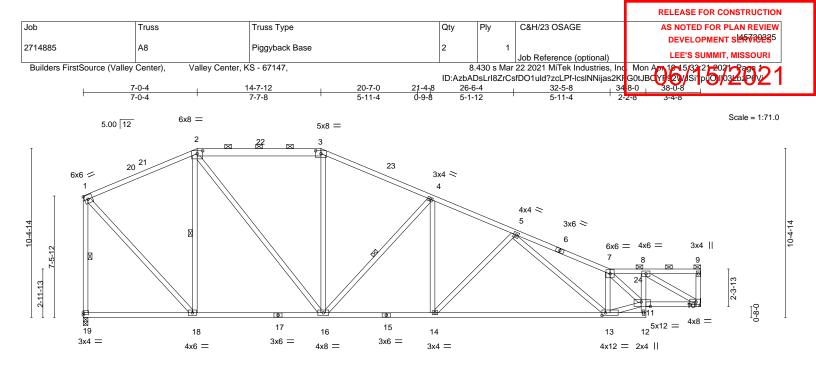
2-18, 1-19, 4-16

2-0-0 oc purlins (3-4-3 max.): 2-3, 7-9.

Rigid ceiling directly applied.

1 Row at midpt



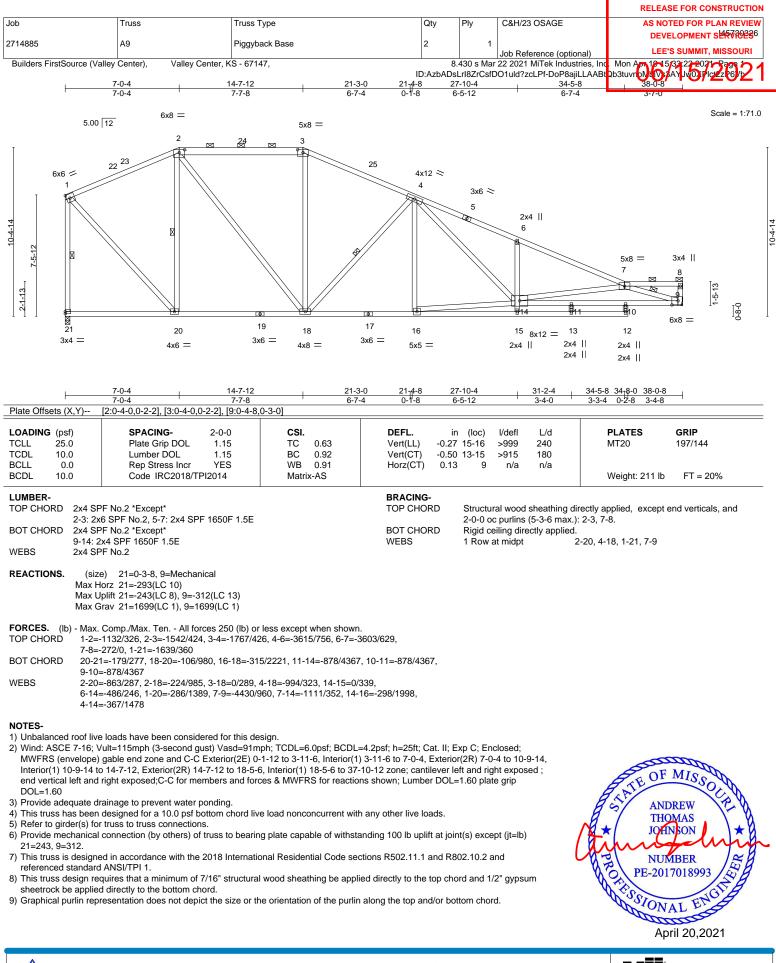


L	7-0-4	14-7-12	21-4		32-5-8	34-8-0 38-0-8
	7-0-4	7-7-8	<u>6-8-1</u>		8-10-14	2-2-8 3-4-8
Plate Offsets (X,Y)	[2:0-4-0,0-2-2], [3:0-4-0,	0-2-2], [10:0-4-8,0	<u>2-0], [11:0-6-12,0-3-4]</u> ,	[13:0-2-8,0-2-0]		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC 0.66 BC 0.98 WB 0.80	Vert(LL) -0.33	(loc) l/defl L/d 13-14 >999 240 13-14 >622 180 10 n/a n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/T		Matrix-AS	()		Weight: 201 lb FT = 20%
2-3: BOT CHORD 2x4	SPF No.2 *Except* 2x6 SPF No.2 SPF No.2 SPF No.2			BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing 2-0-0 oc purlins (3-6-12 m Rigid ceiling directly applie 1 Row at midpt	
Max Max	size) 19=0-3-8, 10=Mech < Horz 19=-288(LC 10) < Uplift 19=-242(LC 8), 10= < Grav 19=1699(LC 1), 10=	-315(LC 13)				
FOP CHORD 1-2 7-8	ax. Comp./Max. Ten All fc 2=-1133/324, 2-3=-1541/42 8=-2525/438, 1-19=-1640/3 -19=-190/277, 16-18=-145/	2, 3-4=-1763/423, 4 59	4-5=-2479/465, 5-7=-3	333/595,		
8-4 WEBS 2-4 7-4	11=-223/1385, 10-11=-483/ 11=-223/1385, 10-11=-483/ 11=-756/95, 8-10=-224/98 11=-756/95, 8-10=-2920/53 14=-583/223, 5-13=-74/514	2575 3, 3-16=0/283, 7-13 0, 1-18=-286/1390,	3=-1036/293, 11-13=-4	47/2915,		
 Wind: ASCE 7-16 MWFRS (envelop Interior(1) 10-9-14 end vertical left an DOL=1.60 Provide adequate This truss has bee Refer to girder(s) Provide mechanic 19=242, 10=315. This truss is desig referenced standa 	live loads have been consid ; Vult=115mph (3-second g be) gable end zone and C-C 4 to 14-7-12, Exterior(2R) 1 nd right exposed;C-C for m e drainage to prevent water en designed for a 10.0 psf I for truss to truss connection cal connection (by others) o gned in accordance with the ard ANSI/TPI 1. requires that a minimum of	just) Vasd=91mph; Exterior(2E) 0-1-1 4-7-12 to 18-5-6, Ir embers and forces ponding. pottom chord live lo ns. f truss to bearing p 2018 International	TCDL=6.0psf; BCDL= 2 to 3-11-6, Interior(1) tterior(1) 18-5-6 to 37- & MWFRS for reaction wad nonconcurrent with late capable of withsta I Residential Code sec	3-11-6 to 7-0-4, Exterior 10-12 zone; cantilever le is shown; Lumber DOL= any other live loads. nding 100 lb uplift at join tions R502.11.1 and R80	(2R) 7-0-4 to 10-9-14, ft and right exposed ; 1.60 plate grip t(s) except (jt=lb) 02.10.2 and	ANDREW THOMAS OHNON
sheetrock be app	lied directly to the bottom c epresentation does not dep	hord.	0 11	, ,	0,1	PE-2017018993

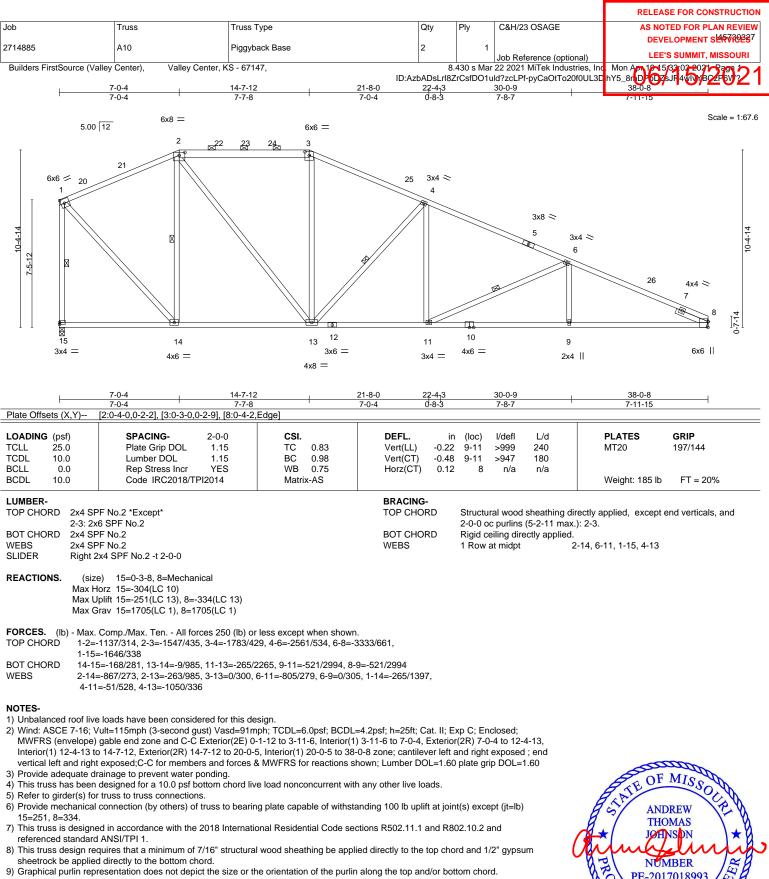
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

April 20,2021



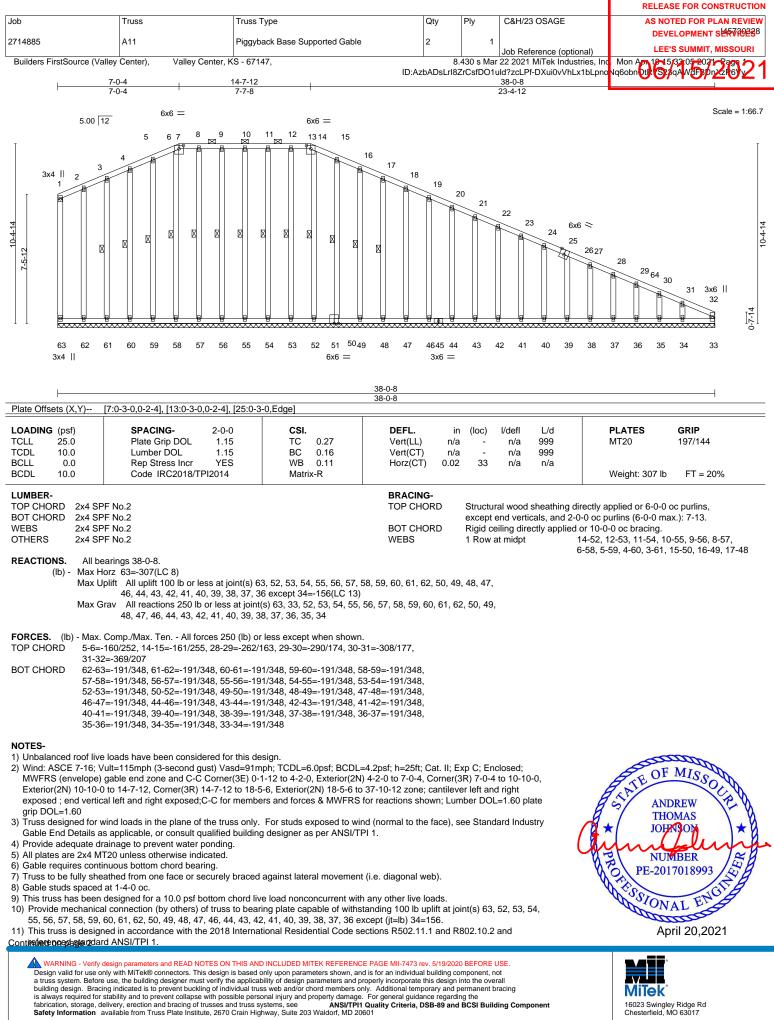


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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	C&H/23 OSAGE	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
2714885	A11	Piggyback Base Supported Gable	2		Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valle	/ Center), Valley Center, I	KS - 67147,	8	.430 s Mar	22 2021 MiTek Industries, Inc	Mon Apr 12 15 33:06 2021 Page 2
NOTES-			ID:AzbADsLrl82	ZrCsfDO1u	ild?zcLPf-hjS4DFWJ6F9SyzM	xXd18_w28PpHoteQart/n.uzzk6/x

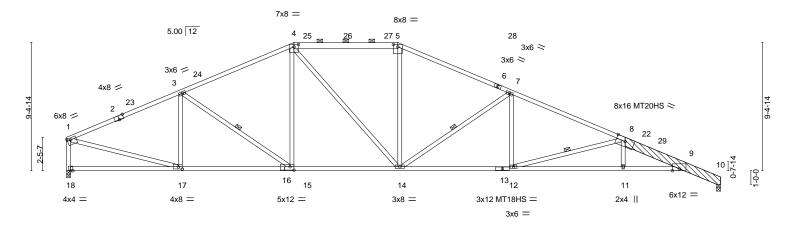
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



												RELEAS	E FOR CONST	TRUCTION
Job		Tru	SS		Truss Type		Qty	Ply	C&H/23 O	SAGE		AS NOT	ED FOR PLAN	N REVIEW
074.4	005				Diam the all Dates							DEVE	LOPMENT SE	₹ 770289
2714	885	A12	2		Piggyback Base		2	1	Job Refere	nce (optional)		LEE'S	в SUMMIT, MIS	SSOURI
Buil	Iders FirstSourc	e (Valley Cen	ter), V	alley Cente	, KS - 67147,								33.07 .2 021 - Pa	799 7 1
							ID:AzbADsLrl82	ZrCsfDO1u	ld?zcLPf-9w	?TRbXxtZHJa	7xEVF80	Sh CTBOD	XaJp42dJrPzF	F6Vw
	⊢	5-9-1	8-4-2		16-8-4	24-3-12	30-11-1				-84-8-8	44-3-6	48-0-0 48	8-10 ₁ 8
	1	5-9-1	2-7-1	2-10-9	5-5-9	7-7-8	6-7-14	L I	1-6-8	5-1-6 1-0-	0 2 1 0	0014	0010 0	100

Scale = 1:84.6

16023 Swingley Ridge Rd Chesterfield, MO 63017



L		<u>5-8-4 24-3-12</u> -5-9 7-7-8	30-11-		<u>37-7-8</u> 5-1-6	<u>38-7-8 40-8-8</u> 44-3-6 1-0-0 2-1-0 3-6-14	<u>48-0-0</u> 3-8-10
Plate Offsets (X,Y)	[1:0-3-0,0-1-12], [2:0-4-0,Edge], [4:0-4				5-1-6	1-0-0 2-1-0 3-6-14	3-8-10
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 0.94 BC 0.75 WB 0.71 Matrix-AS	Vert(LL) -0.4	n (loc) l/defl 5 11-12 >999 5 11-12 >670 6 10 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS MT18HS Weight: 250 lb	GRIP 197/144 148/108 197/144 p FT = 20%
4-5: 2) 8-10: 2 BOT CHORD 2x4 SI 9-13: 2 WEBS 2x4 SI OTHERS 2x8 SI LBR SCAB 8-10 2 REACTIONS. (siz Max H	PF No.2 *Except* x6 SPF No.2, 5-6,6-8: 2x4 SPF 1650F 1 2x8 SP 2400F 2.0E PF No.2 *Except* 2x4 SP 2400F 2.0E, 13-16: 2x4 SPF 16 PF No.2 P 2400F 2.0E 2x8 SP 2400F 2.0E one side ze) 10=0-3-8, 18=0-3-8 Horz 18=-203(LC 13) Uplift 10=-393(LC 13), 18=-336(LC 12)		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood 2-0-0 oc purlins Rigid ceiling dir 1 Row at midpt	(3-11-7 max ectly applied.		t end verticals, and
FORCES. (lb) - Max. TOP CHORD 1-3= 8-9= BOT CHORD 17-1 9-11 WEBS 4-15	Grav 10=2151(LC 1), 18=2147(LC 1) c. Comp./Max. Ten All forces 250 (lb) c =-3012/527, 3-4=-2930/582, 4-5=-2859/6 =-6258/1131, 9-10=-818/172, 1-18=-206 18=-70/260, 15-17=-403/2689, 14-15=-2 1=-1013/6026 5=-37/358, 4-14=-205/632, 5-14=-67/654 2=-54/686, 7-14=-1432/408, 8-11=0/303,	23, 5-7=-3228/626, 7-8=-44 4/384 53/2589, 12-14=-526/4050, , 1-17=-391/2634, 3-17=-52	11-12=-1009/6038,				
NOTES- 1) Attached 7-9-8 scat 0-0-12 from end at j 2) Unbalanced roof liv 3) Wind: ASCE 7-16; \ MWFRS (envelope) 23-5-11, Interior(1) exposed ; end vertic grip DOL=1.60 4) Provide adequate d 5) All plates are MT20 6) This truss has been 7) Bearing at joint(s) 1 capacity of bearing 8) Provide mechanical 10=393, 18=336.	b 8 to 10, front face(s) 2x8 SP 2400F 2.1 joint 8, nail 2 row(s) at 2" o.c. for 5-8-14 ve loads have been considered for this d Vult=115mph (3-second gust) Vasd=91r gable end zone and C-C Exterior(2E) (.23-5-11 to 24-3-12, Exterior(2R) 24-3-1 ical left and right exposed;C-C for memb drainage to prevent water ponding. D plates unless otherwise indicated. In designed for a 10.0 psf bottom chord li 10, 18 considers parallel to grain value u g surface. al connection (by others) of truss to bearin thed in accordance with the 2018 Internat	DE with 2 row(s) of 10d (0.13 esign. hph; TCDL=6.0psf; BCDL=4 I-1-12 to 4-11-6, Interior(1) 4 2 to 31-1-3, Interior(1) 31-1- ers and forces & MWFRS for ve load nonconcurrent with a sing ANSI/TPI 1 angle to gra- ng plate capable of withstan	4.2psf; h=25ft; Cat. II; 4-11-6 to 16-8-4, Exter 3 to 47-10-4 zone; car or reactions shown; Lu any other live loads. ain formula. Building o ading 100 lb uplift at jo	Exp C; Enclosed; ior(2R) 16-8-4 to tillever left and rig mber DOL=1.60 p lesigner should ve nt(s) except (jt=lb	ht Iate	PE-20	E MISSOL DREW OMAS TRSON MBER 17018993 VAL ENGL VAL ENGL
WARNING - Verify Design valid for use of a truss system. Befor building design. Brac	y design parameters and READ NOTES ON THIS AN only with MiTek® connectors. This design is based re use, the building designer must verify the applic icing indicated is to prevent buckling of individual tru r stability and to prevent collapse with possible per	only upon parameters shown, and bility of design parameters and pro ss web and/or chord members only	is for an individual building operly incorporate this design y. Additional temporary and	omponent, not into the overall permanent bracing		MiTek	o

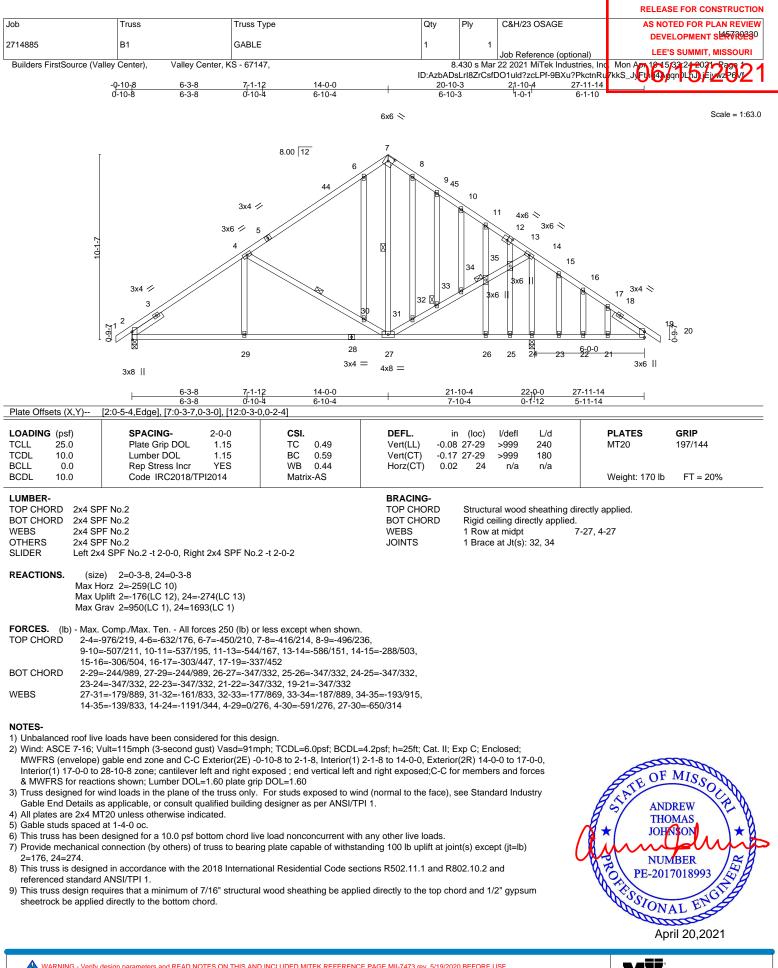
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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 **ANSVTPI 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	Ply	C&H/23 OSAGE	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
2714885	A12	Piggyback Base	2	1	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valle	Center), Valley Center, ł	(S - 67147,	8	.430 s Mar	22 2021 MiTek Industries, Inc	Mon Apr 12 15/33:07 2021 Page 2
NOTES-		ID:Az	bADsLrl82	ZrCsfDO1u	ld?zcLPf-9w?TRbXxtZHJa7xE	Mon Ap 19 5/3707-021-8399 2 VF8Gh T 6 F x Jp 2 dJ 2 F 6 2 1
10) This truss design req	uires that a minimum of 7/16"	structural wood sheathing be applied directly to	the top ch	nord and 1	/2" gypsum sheetrock be ap	plied directly to the

bottom chord.

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

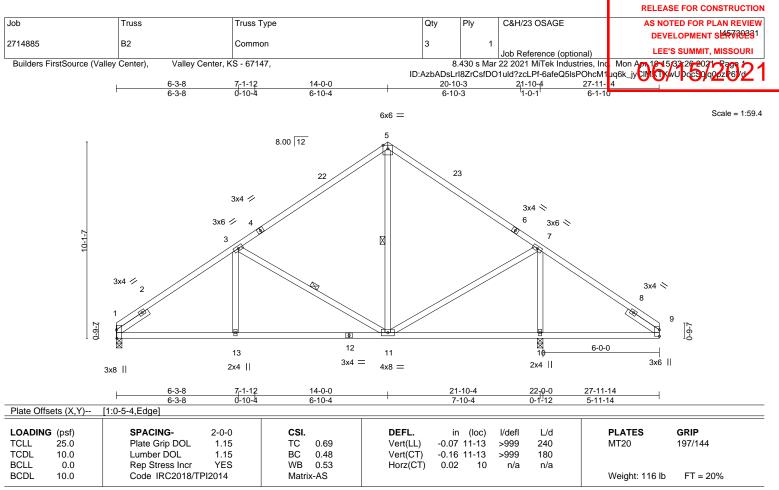




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MiTek



LUMBER-

LOWDER-	
TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
SLIDER	Left 2x4 SPF No.2 -t 2-0-0, Right 2x4 SPF No.2 -t 2-0-2

BRACING-TOP CHORD BOT CHORD

WEBS

Structural wood sheathing directly applied. Rigid ceiling directly applied. 1 Row at midpt 5-11, 3-11

REACTIONS. (size) 1=0-3-8, 10=0-3-8 Max Horz 1=244(LC 9) Max Uplift 1=-157(LC 12), 10=-248(LC 13)

Max Grav 1=906(LC 1), 10=1614(LC 1)

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

- TOP CHORD 1-3=-1018/226, 3-5=-672/193, 5-7=-679/224, 7-9=-274/466
- BOT CHORD 1-13=-262/1011, 11-13=-262/1011, 10-11=-258/256, 9-10=-258/256
- WEBS 7-11=-136/796, 7-10=-1431/461, 3-13=0/272, 3-11=-617/291

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 14-0-0, Exterior(2R) 14-0-0 to 17-0-0, Interior(1) 17-0-0 to 28-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

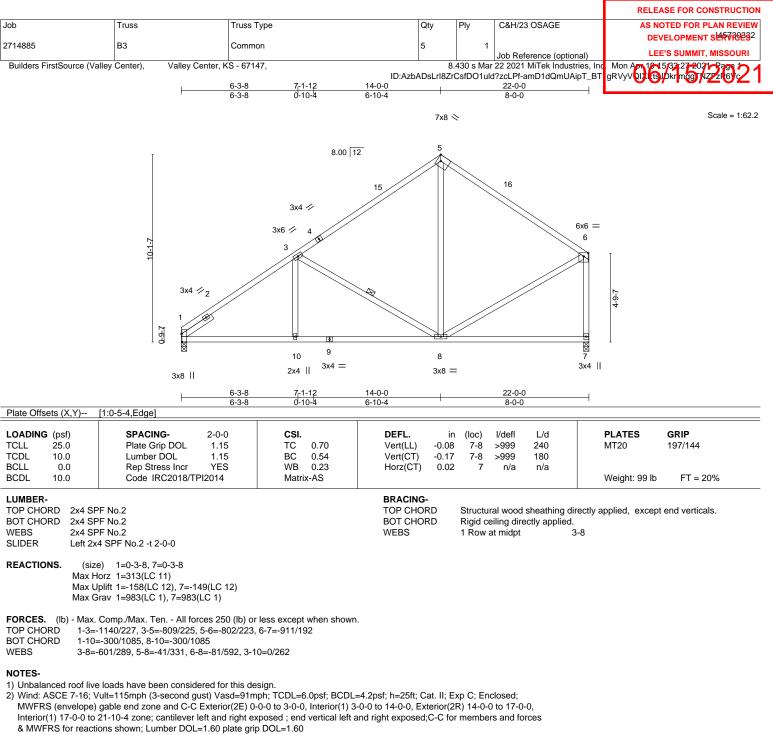
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=157, 10=248.

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.



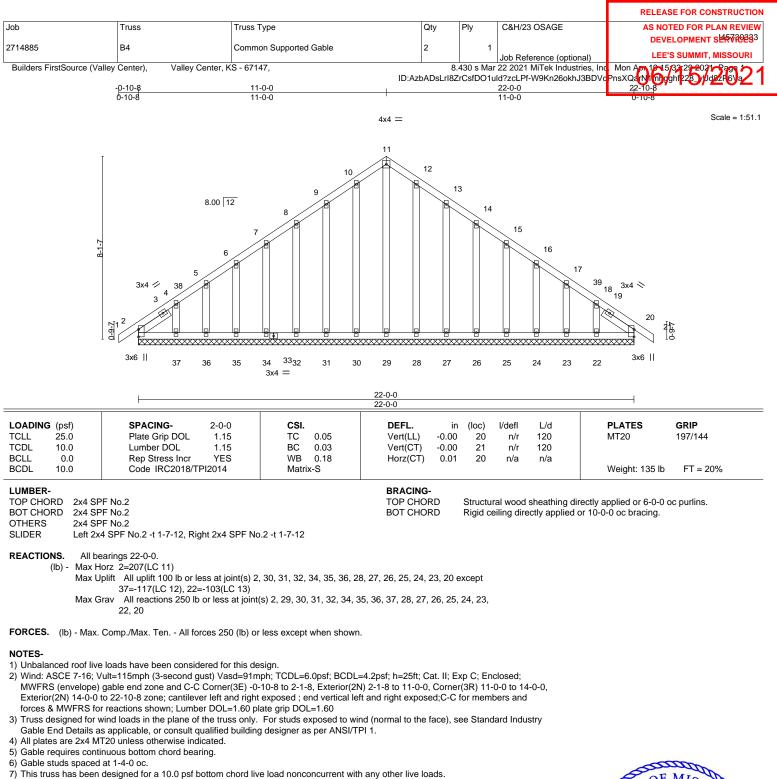
16023 Swingley Ridge Rd Chesterfield, MO 63017



- 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) 1=158, 7=149.
- 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.



MITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017

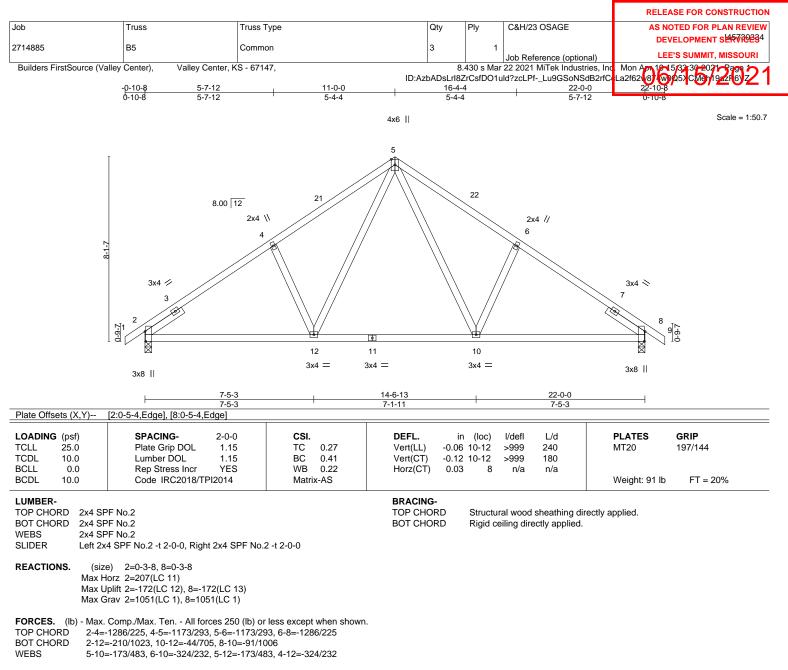


8) Provide mechanical connection (by others) of truss to beam international plate capable of withstanding 100 lb uplift at joint(s) 2, 30, 31, 32, 34, 35, 36, 28, 27, 26, 25, 24, 23, 20 except (jt=lb) 37=117, 22=103.

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.







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.

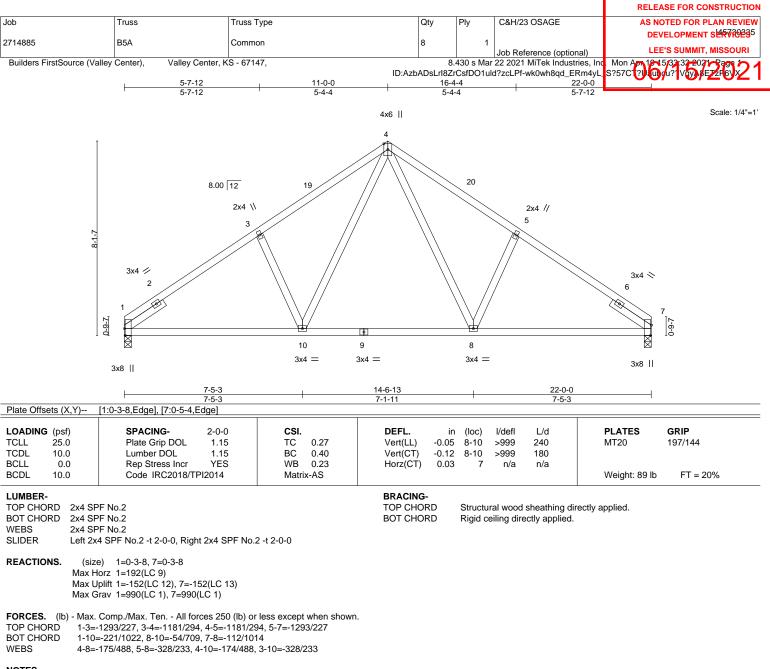
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=172, 8=172.

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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017



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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 22-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

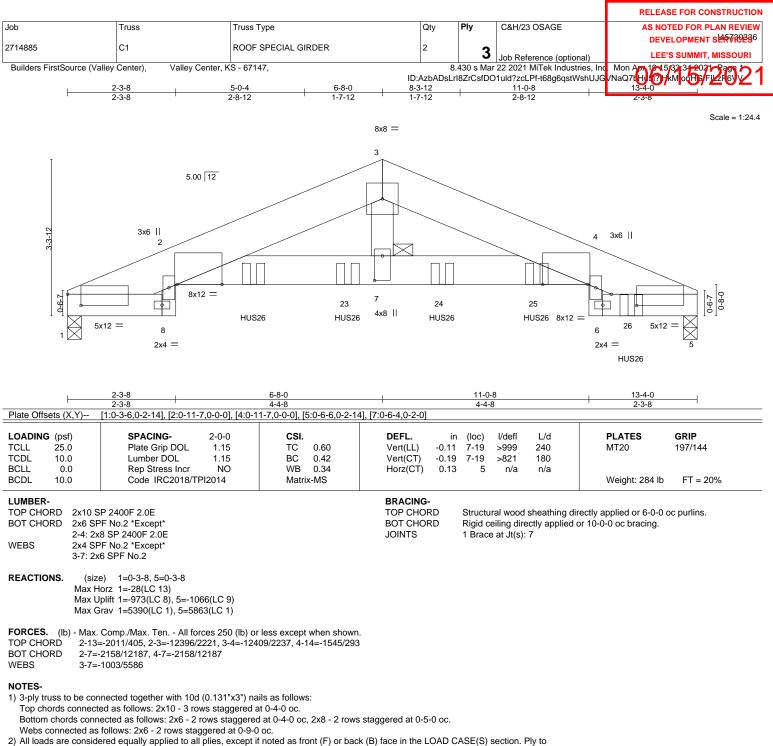
 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=152, 7=152.

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.







- ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=973, 5=1066.
- 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) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 3-11-4 from the left end to 11-11-4 to connect truss(es) to front face of bottom chord.
- 9) Fill all nail holes where hanger is in contact with lumber.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1685 lb down and 354 lb up at 2-3-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2





						RELEASE FOR CONSTRUCTION	
Job	Truss	Truss Type	Qty	Ply	C&H/23 OSAGE	AS NOTED FOR PLAN REVIEW	
						DEVELOPMENT SERVICES	
2714885	C1	ROOF SPECIAL GIRDER	2	3	Job Reference (optional)	LEE'S SUMMIT, MISSOURI	
Builders FirstSource (Valley	Center), Valley Center, K	(S - 67147,	8.	430 s Mar	22 2021 MiTek Industries, Inc	Mon Apr 12 15 33 34 2021 Page 2	
		ID:	AzbADsLr	8ZrCsfDO	1uld?zcLPf-t68g6qstWshUJG		

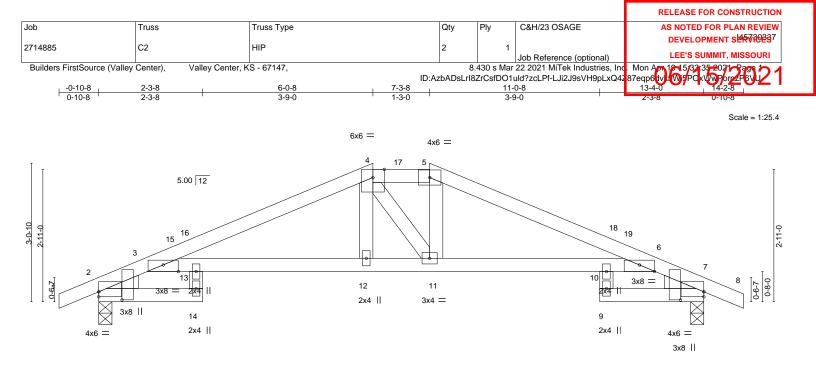
LOAD CASE(S) Standard

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

Vert: 3-11=-70, 3-14=-70, 1-8=-20, 17-20=-20, 5-6=-20 Concentrated Loads (b)

Vert: 17=-1685(F) 19=-1679(F) 23=-1679(F) 24=-1679(F) 25=-1679(F) 26=-1686(F)





	2-3-8 2-3-8		6-0-8 3-9-0	7-3-8 1-3-0		-0-8 9-0	<u>13-4-0</u> 2-3-8	
Plate Offsets (X,Y)	[2:0-0-0,0-1-5], [2:0-2-2,0	0-6-2], [3:0-4-0,	Edge], [6:0-4-0,Edge], [7	<u>':0-0-0,0-1-5], [7:0-</u>	2-2,0-6-2]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TI	2-0-0 1.15 1.15 YES Pl2014	CSI. TC 0.66 BC 0.89 WB 0.06 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.15 12-13 -0.27 12-13 0.23 7	l/defl L/d >999 240 >575 180 n/a n/a	PLATES MT20 Weight: 46 lb	GRIP 197/144 FT = 20%
BOT CHORD 2x4 SF WEBS 2x4 SF WEDGE	PF No.2 PF No.2 PF No.2			BRACING- TOP CHOR BOT CHOR	2-0-0 of RD Rigid ce	c purlins (5-4-15	blied or 10-0-0 oc bracing.	

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

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

Max Horz 2=50(LC 12) Max Uplift 2=-124(LC 12), 7=-124(LC 13) Max Grav 2=658(LC 1), 7=658(LC 1)

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

- TOP CHORD 2-3=-373/129, 3-4=-1168/320, 4-5=-1041/341, 5-6=-1169/318, 6-7=-373/126
- BOT CHORD 3-13=-217/1051, 12-13=-217/1051, 11-12=-216/1040, 10-11=-211/1053, 6-10=-211/1053

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-8, Exterior(2E) 6-0-8 to 7-3-8, Exterior(2R) 7-3-8 to 11-6-7, Interior(1) 11-6-7 to 14-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

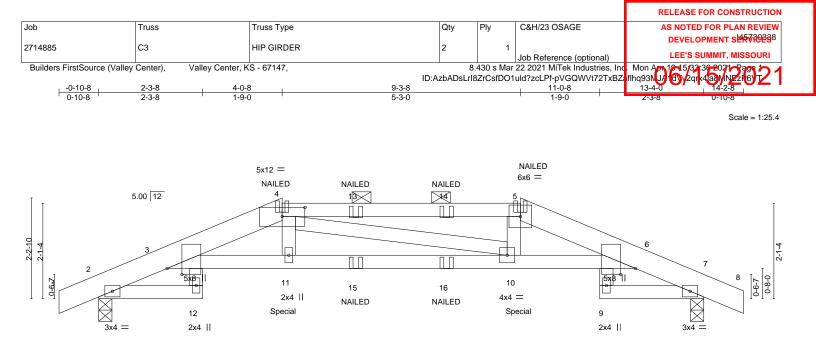
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=124, 7=124.

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.

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







	2-3-8 4-0-8 2-3-8 1-9-0		<u>9-3-8</u> 5-3-0		<u>11-0-8</u> 1-9-0	13-4-0 2-3-8	
Plate Offsets (X,Y)	[3:0-1-9,0-3-15], [4:0-6-0,0-2-6], [6:0-1-	9,0-3-15]					
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.85 BC 0.69 WB 0.10 Matrix-S	Vert(LL) -0.1	in (loc) l/d 5 10-11 >9 8 10-11 >5 9 7 r	99 240	PLATES MT20 Weight: 51 lb	GRIP 197/144 FT = 20%
4-5: 2x BOT CHORD 2x4 SF 3-6: 2x	PF 2100F 1.8E *Except* 44 SPF No.2 PF No.2 *Except* 44 SPF 1650F 1.5E PF No.2		BRACING- TOP CHORD BOT CHORD	2-0-0 oc pu	rlins (2-6-11 max.	rectly applied or 4-9-5 .): 4-5. or 6-0-0 oc bracing.) oc purlins, except
Max H Max U	e) 2=0-3-8, 7=0-3-8 łorz 2=-36(LC 30) Jplift 2=-270(LC 8), 7=-270(LC 9) Grav 2=1055(LC 1), 7=1055(LC 1)						
TOP CHORD 2-3= BOT CHORD 3-11	Comp./Max. Ten All forces 250 (lb) o -457/154, 3-4=-2918/798, 4-5=-2849/78 =-733/2817, 10-11=-742/2866, 6-10=-72 =-80/390, 5-10=-89/412	8, 5-6=-2901/791, 6-7=-4					
 Wind: ASCE 7-16; MWFRS (envelope) grip DOL=1.60 Provide adequate d This truss has been Provide mechanical 2=270, 7=270. This truss is designer referenced standard Graphical purlin rep "NAILED" indicates Hanger(s) or other of 4-0-8, and 265 lb dor responsibility of other 	resentation does not depict the size or the size of th	hph; TCDL=6.0psf; BCDL t exposed ; end vertical le re load nonconcurrent wit ng plate capable of withst onal Residential Code se the orientation of the purlir ") toe-nails per NDS guid ufficient to support conce schord. The design/selecti	If and right exposed; Lu h any other live loads. anding 100 lb uplift at jo ctions R502.11.1 and R n along the top and/or b lines. ntrated load(s) 265 lb do on of such connection of	int(s) except (j 802.10.2 and ottom chord.	60 plate t=lb) o up at	TH JOI	E MISSOLIE DREW OMAS HISON
LOAD CASE(S) Stan 1) Dead + Roof Live (b Uniform Loads (plf)	E(S) section, loads applied to the face of dard balanced): Lumber Increase=1.15, Plate 70, 4-5=-70, 5-8=-70, 2-12=-20, 3-6=-20	Increase=1.15	ont (F) or back (B).		(PE-20 PE-20 PE-20	MBER 17018993 5 4 NAL ENGL AND 20 2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



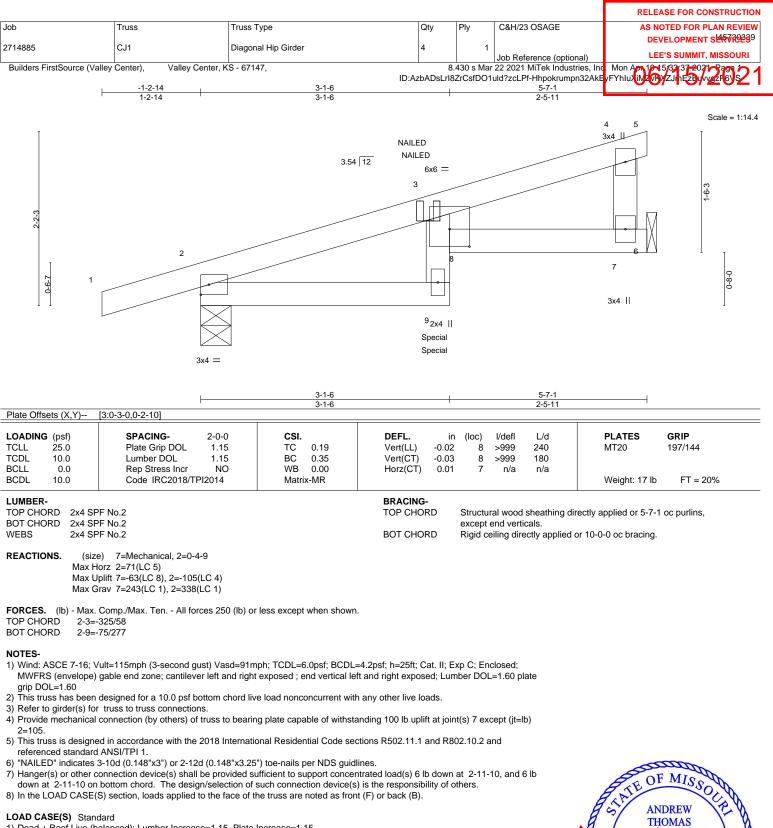
April 20,2021

							RELEASE FOR CONSTRUCTION
[Job	Truss	Truss Type	Qty	Ply	C&H/23 OSAGE	AS NOTED FOR PLAN REVIEW
							DEVELOPMENT SERVICES
	2714885	C3	HIP GIRDER	2	1		LEE'S SUMMIT, MISSOURI
						Job Reference (optional)	LEE 5 SUMINIT, MISSOURI
	Builders FirstSource (Valley	Center), Valley Center, K					Mon Apr 12 15/33 36 2021 Page 2
			ID:A	zbADsLrl	3ZrCsfDO1	uld?zcLPf-pVGQWVt72TxBZ	flhq93NJA1d)y2qrk4a3MNZzR6YT

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 4=-34(B) 5=-34(B) 11=-265(B) 10=-265(B) 13=-34(B) 14=-34(B) 15=-50(B) 16=-50(B)



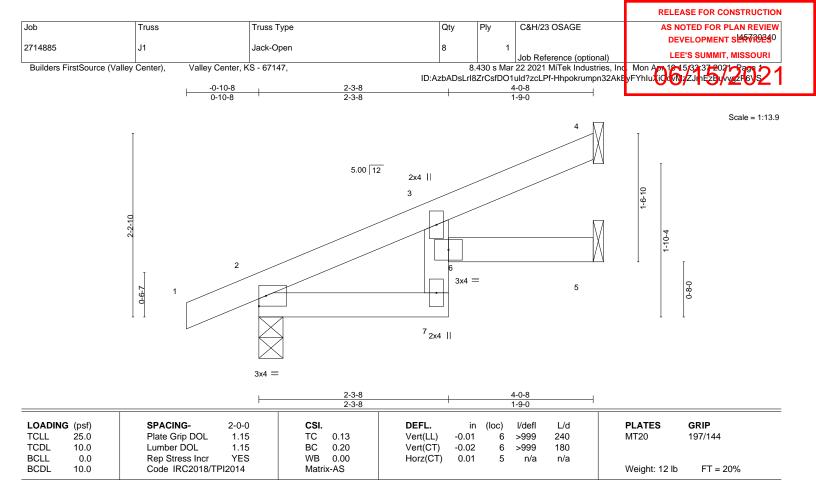


1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-70, 4-5=-20, 9-10=-20, 6-8=-20 Concentrated Loads (lb)

Vert: 9=-5(F=-2, B=-2)



16023 Swingley Ridge Rd Chesterfield, MO 63017



	JMBER-	
- L V		

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

Structural wood sheathing directly applied. Rigid ceiling directly applied.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical Max Horz 2=80(LC 12) Max Uplift 4=-42(LC 12), 2=-45(LC 12), 5=-15(LC 12) Max Grav 4=98(LC 1), 2=247(LC 1), 5=74(LC 1)

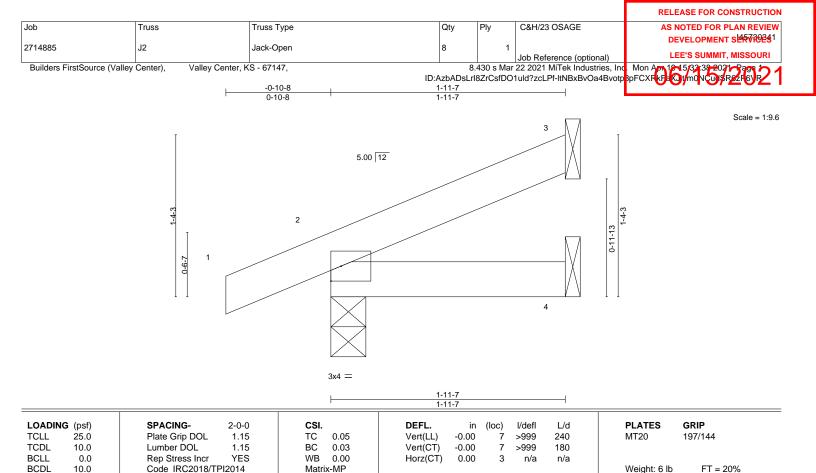
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-1, Interior(1) 2-1-1 to 3-11-12 zone; cantilever left and right
- exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







BRACING-

TOP CHORD

BOT CHORD

	JMBER-	
LU		

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

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

Max Horz 2=46(LC 12)

Max Uplift 3=-28(LC 12), 2=-34(LC 8)

Max Grav 3=53(LC 1), 2=162(LC 1), 4=34(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.

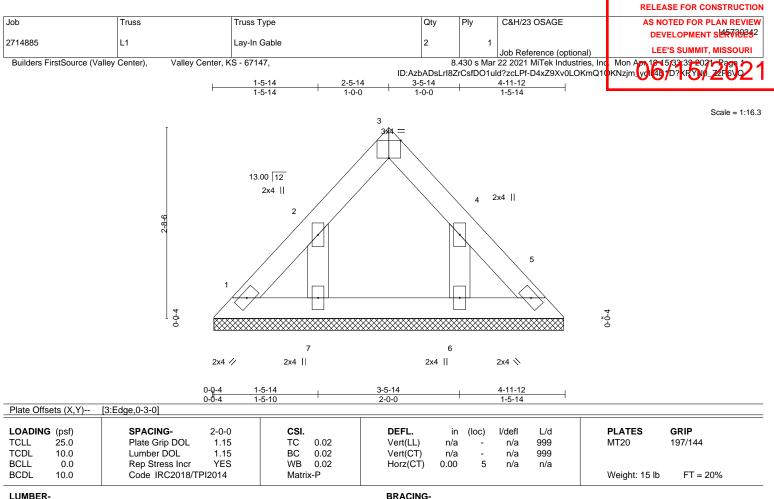
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2. 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

OF MISSOL P ANDREW THOMAS OHNSO NUMBER OFFESSIONAL PE-2017018993 E April 20,2021

Structural wood sheathing directly applied or 1-11-7 oc purlins.

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





TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. All bearings 4-11-4.

Max Horz 1=-62(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7, 6 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 6

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 7, 6.

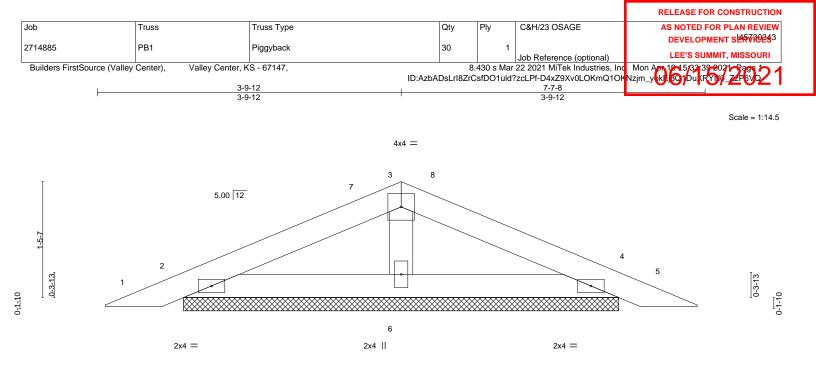
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-11-12 oc purlins.

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





			7-7-8					
OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	(loc)	l/defl	L/d	PLATES	GRIP
FCLL 25.0	Plate Grip DOL 1.15	TC 0.12	Vert(LL) 0.00	5	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) 0.01	5	n/r	120		
BCLL 0.0	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 16 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2

REACTIONS. 6=5-5-8, 4=5-5-8, 2=5-5-8 (size) Max Horz 2=-25(LC 13) Max Uplift 6=-16(LC 12), 4=-53(LC 13), 2=-49(LC 12) Max Grav 6=239(LC 1), 4=170(LC 1), 2=170(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-7 to 3-5-7, Interior(1) 3-5-7 to 3-9-12, Exterior(2R) 3-9-12 to 6-6-8, Interior(1) 6-6-8 to 7-2-1 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) 6, 4, 2.

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

referenced standard ANSI/TPI 1.

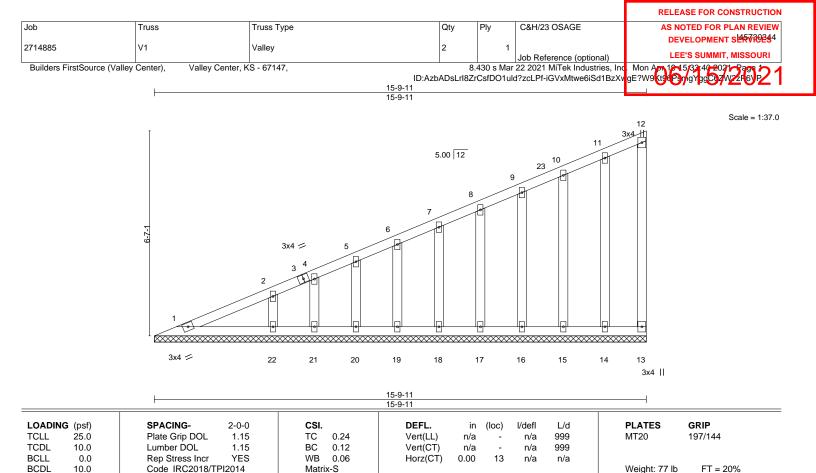
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer



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

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

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 OTHERS
 2x4 SPF No.2

BRACING-TOP CHORD

BOT CHORD

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

REACTIONS. All bearings 15-9-11.

(lb) - Max Horz 1=272(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 13, 14, 15, 16, 17, 18, 19, 20, 21, 22

Max Grav All reactions 250 lb or less at joint(s) 13, 1, 14, 15, 16, 17, 18, 19, 20, 21 except 22=286(LC 1)

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

TOP CHORD 1-2=-424/214, 2-4=-351/177, 4-5=-332/179, 5-6=-297/167, 6-7=-265/157

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-8-12 to 3-9-11, Exterior(2N) 3-9-11 to 15-7-15 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60

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

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

4) Gable requires continuous bottom chord bearing.

5) Gable studs spaced at 1-4-0 oc.

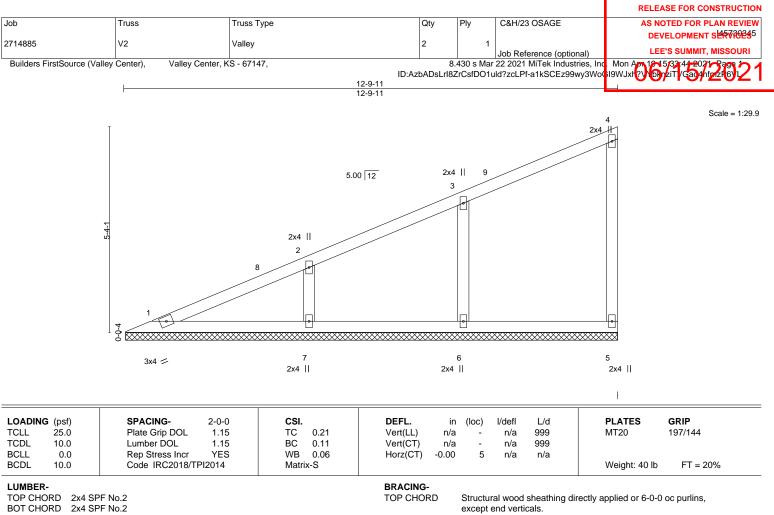
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 14, 15, 16, 17, 18, 19, 20, 21, 22.

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.







BOT CHORD

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

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

REACTIONS. All bearings 12-9-1.

(lb) - Max Horz 1=217(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 5 except 6=-113(LC 12), 7=-124(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=372(LC 1), 7=406(LC 1)

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

TOP CHORD 1-2=-286/171

WEBS 3-6=-292/197, 2-7=-307/198

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 12-7-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

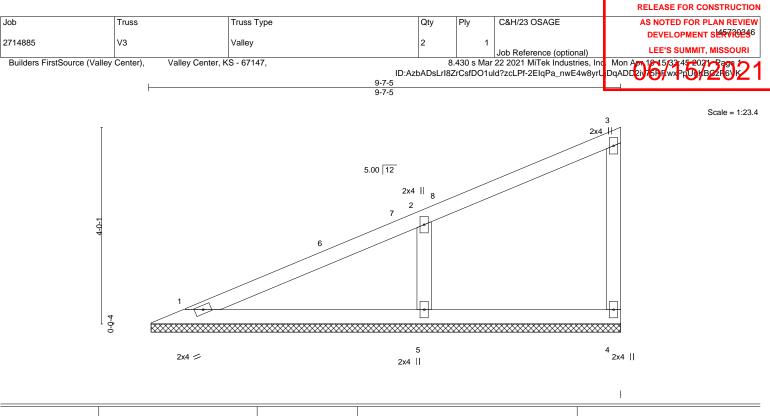
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 6=113, 7=124.

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.







ICLL 25.0 ICDL 10.0 BCLL 0.0 BCDL 10.0	Lumber DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.30 BC 0.16 WB 0.05 Matrix-S	Vert(LL) h/a Vert(CT) n/a Horz(CT) -0.00	- n/a 999 - n/a 999 4 n/a n/a	Weight: 28 lb FT = 20%
LOADING (psf) FCLL 25.0 FCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15	CSI. TC 0.30 BC 0.16	DEFL. in Vert(LL) n/a Vert(CT) n/a	(loc) l/defl L/d - n/a 999 - n/a 999	PLATES GRIP MT20 197/144

BOT CHORD

except end verticals.

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

TOP CHORD 2x4 SPF No.2

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

REACTIONS. (size) 1=9-6-11, 4=9-6-11, 5=9-6-11 Max Horz 1=159(LC 9)

Max Uplift 1=-12(LC 12), 4=-28(LC 9), 5=-124(LC 12)

Max Grav 1=176(LC 1), 4=120(LC 1), 5=487(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-5=-369/249WEBS

NOTES-

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

2) Gable requires continuous bottom chord bearing.

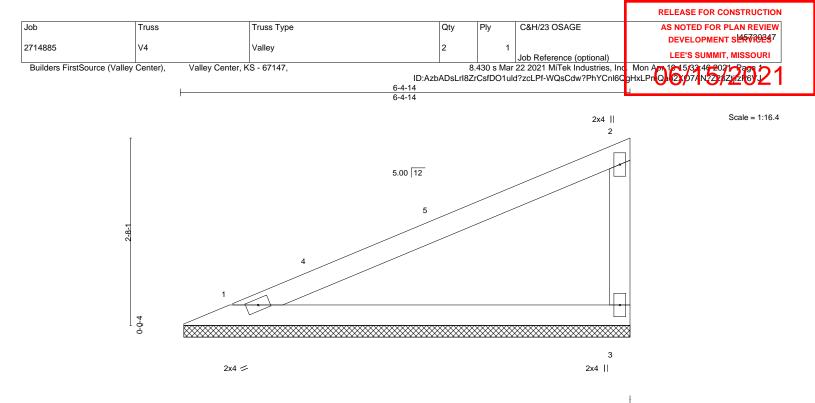
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5 = 124

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







LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.59 BC 0.32 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc n/a n/a 0.00	n/a	L/d 999 999 n/a	PLATES GRIP MT20 197/144 Weight: 17 lb FT = 20%
LUMBER-			BRACING-				

TOP CHORD

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

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

REACTIONS. 1=6-4-5, 3=6-4-5 (size) Max Horz 1=101(LC 9) Max Uplift 1=-44(LC 12), 3=-68(LC 12)

Max Grav 1=248(LC 1), 3=248(LC 1)

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

NOTES-

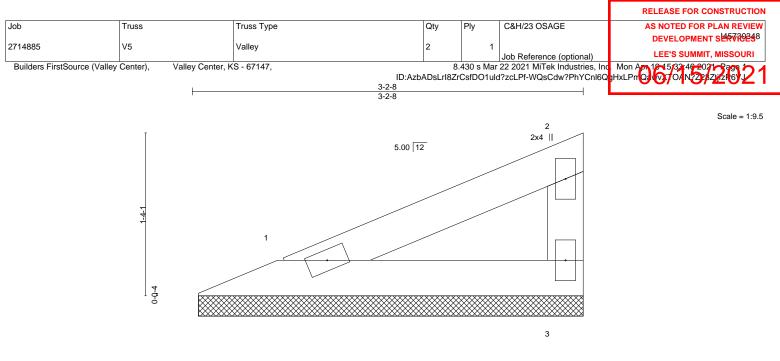
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 6-3-2 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for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

2) Gable requires continuous bottom chord bearing.

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







2x4 💋

2x4 ||

except end verticals.

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

OADING CLL CDL CLL	(pst) 25.0 10.0 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.09 BC 0.05 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT) (in (loc) n/a - n/a - 0.00 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P		0.00 0	n/a	n/a	Weight: 7 lb	FT = 20%

BOT CHORD

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

REACTIONS. 1=3-1-14, 3=3-1-14 (size) Max Horz 1=42(LC 9) Max Uplift 1=-19(LC 12), 3=-28(LC 12) Max Grav 1=104(LC 1), 3=104(LC 1)

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

NOTES-

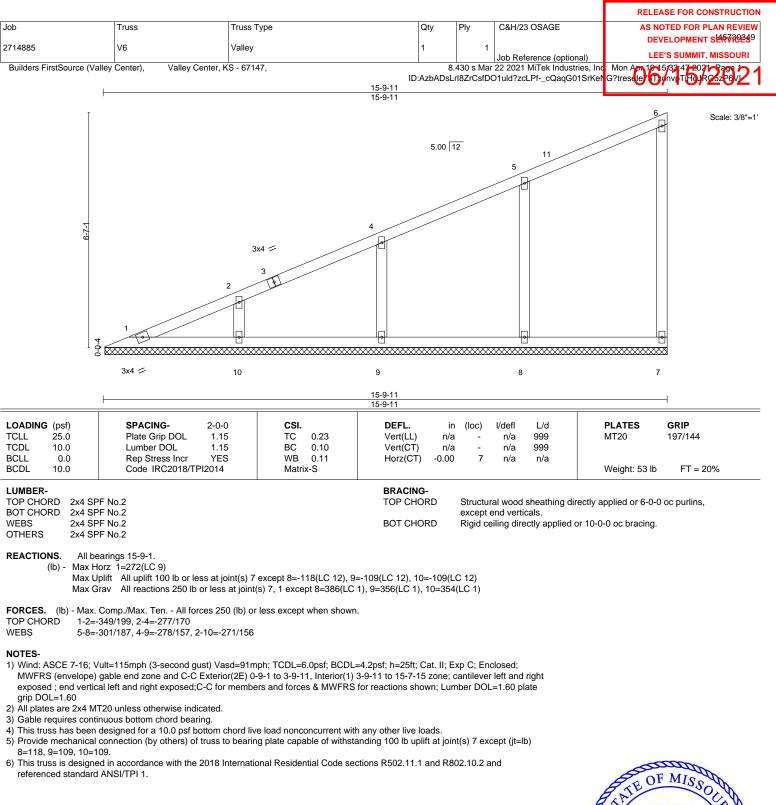
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions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

OF MISSO ATE ANDREW THOMAS JOHNSO NUMBER PE-2017018993 C HESSIONAL E

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven tbuckling 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 sand truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

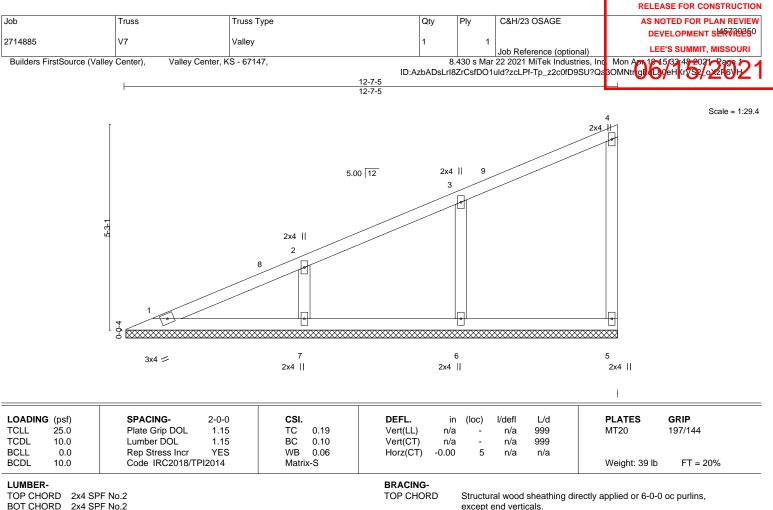


April 20,2021









BOT CHORD

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

TOP CHORD2X4 SPF N0.2BOT CHORD2x4 SPF N0.2WEBS2x4 SPF N0.2OTHERS2x4 SPF N0.2

REACTIONS. All bearings 12-6-11.

(lb) - Max Horz 1=214(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 5 except 6=-114(LC 12), 7=-120(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=376(LC 1), 7=393(LC 1)

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

TOP CHORD 1-2=-284/169

WEBS 3-6=-295/200, 2-7=-298/194

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 12-5-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

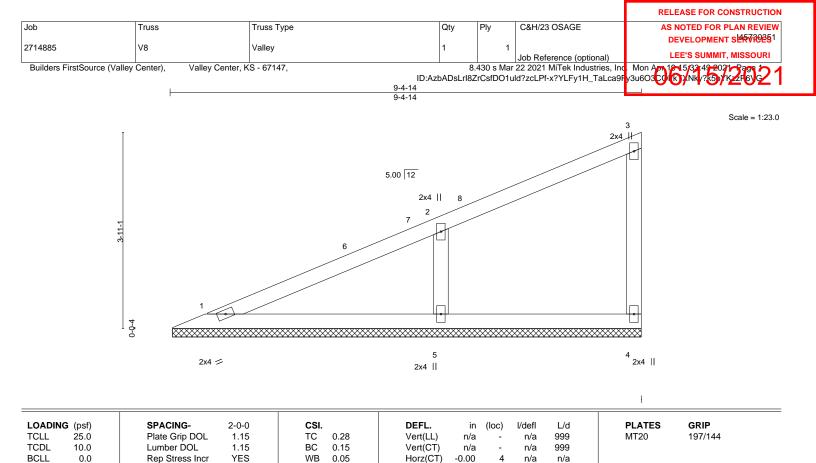
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 6=114, 7=120.

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







BCDL 10.	0	Code IRC2018/TPI2014	Matrix-S	1012(01) 0.0		Weight: 27 lb	FT = 20
LUMBER-				BRACING-			
TOP CHORD	2x4 SP			TOP CHORD	Structural wood sheathing d	irectly applied or 6-0-0 o	oc purlins,
BOT CHORD	2x4 SPI	F No.2			except end verticals.		
WEBS	2x4 SP	F No.2		BOT CHORD	Rigid ceiling directly applied	or 10-0-0 oc bracing.	
OTHERS	2x4 SP	FNo 2					

1=9-4-5, 4=9-4-5, 5=9-4-5 REACTIONS. (size) Max Horz 1=155(LC 9)

Max Uplift 1=-11(LC 12), 4=-28(LC 9), 5=-122(LC 12)

Max Grav 1=169(LC 1), 4=124(LC 1), 5=473(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-5=-359/246WEBS

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

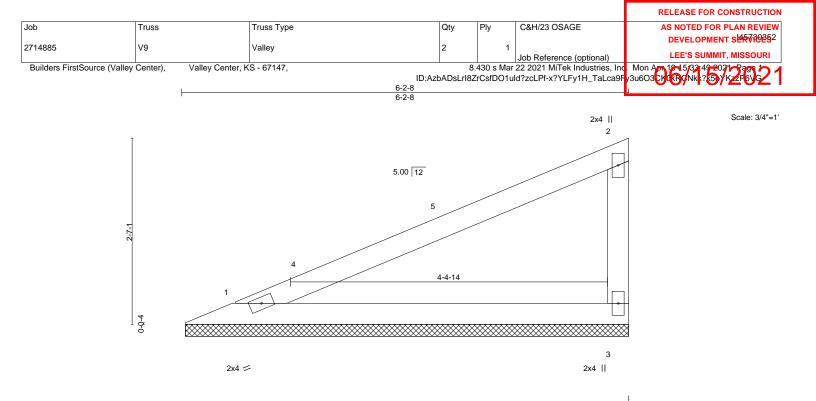
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5 = 122

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.



FT = 20%





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 0.55	Vert(LL) n/a	-	n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.30	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: 16 lb FT = 20%

TOP CHORD

BOT CHORD

TOP CHORD

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

2x4 SPF No.2

REACTIONS. 1=6-1-14, 3=6-1-14 (size) Max Horz 1=97(LC 9) Max Uplift 1=-42(LC 12), 3=-66(LC 12) Max Grav 1=239(LC 1), 3=239(LC 1)

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

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 6-0-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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

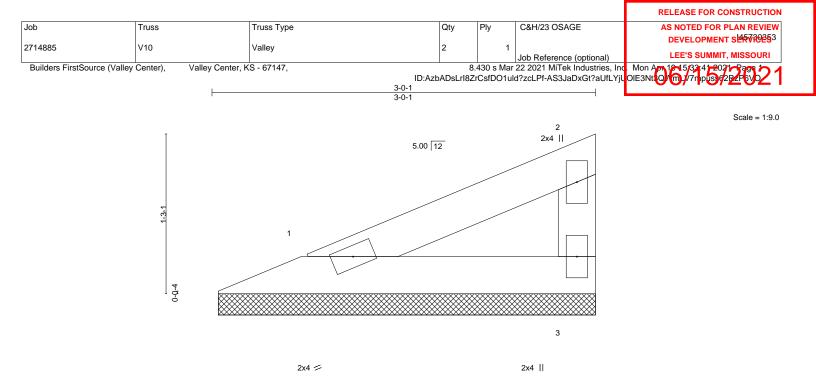


Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.





LOADING (psf) SPACING-2-0-0 CSI. DEFL. l/defl L/d PLATES GRIP in (loc) 25.0 Plate Grip DOL 1.15 тс Vert(LL) 999 197/144 TCLL 0.07 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.04 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 7 lb FT = 20% LUMBER-BRACING-TOP CHORD

BOT CHORD

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

REACTIONS. 1=2-11-8, 3=2-11-8 (size) Max Horz 1=39(LC 9) Max Uplift 1=-18(LC 12), 3=-25(LC 12)

Max Grav 1=95(LC 1), 3=95(LC 1)

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

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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

OF MISSO ANDREW THOMAS JOINSON NUMBER PE-2017018993 C HESSIONAL E April 20,2021

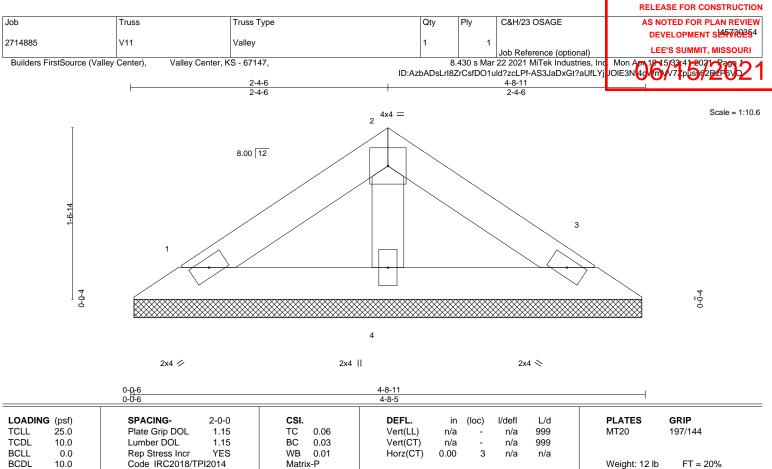
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Structural wood sheathing directly applied or 3-0-1 oc purlins,

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

except end verticals.





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LUMBER-
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TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2OTHERS2x4 SPF No.2

BRACING-

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 4-8-11 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-7-15, 3=4-7-15, 4=4-7-15 Max Horz 1=33(LC 9) Max Uplift 1=-23(LC 12), 3=-27(LC 13), 4=-8(LC 12) Max Grav 1=92(LC 1), 3=92(LC 1), 4=155(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.

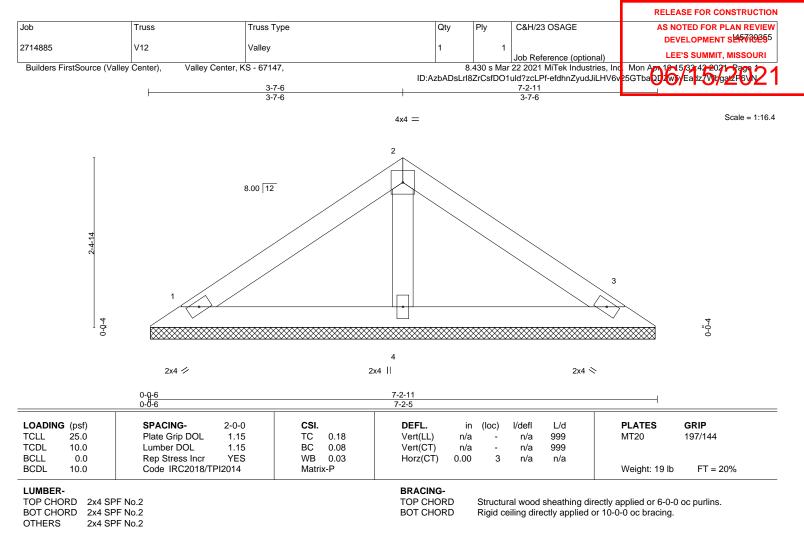
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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.







REACTIONS. (size) 1=7-1-15, 3=7-1-15, 4=7-1-15 Max Horz 1=-55(LC 8) Max Uplift 1=-38(LC 12), 3=-45(LC 13), 4=-13(LC 12) Max Grav 1=153(LC 1), 3=153(LC 1), 4=258(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.

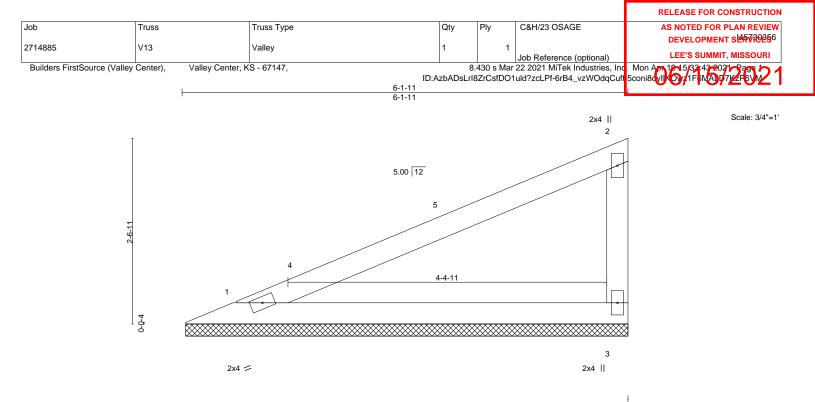
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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.







TCDL 10.0 Lumbe	Grip DOL 1.15 r DOL 1.15	TC 0.53 BC 0.29	Vert(LL) Vert(CT)	n/a	- n/a	999	MT20	197/144
	r DOL 1.15	BC 0.29	Vert(CT)	-	,			
				n/a	- n/a	999		
BCLL 0.0 Rep St	ress Incr YES	WB 0.00	Horz(CT)	0.00	3 n/a	n/a		
BCDL 10.0 Code I	RC2018/TPI2014	Matrix-P					Weight: 16 lb	FT = 20%

TOP CHORD

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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. 1=6-1-1, 3=6-1-1 (size) Max Horz 1=96(LC 9) Max Uplift 1=-44(LC 12), 3=-63(LC 12) Max Grav 1=236(LC 1), 3=236(LC 1)

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

NOTES-

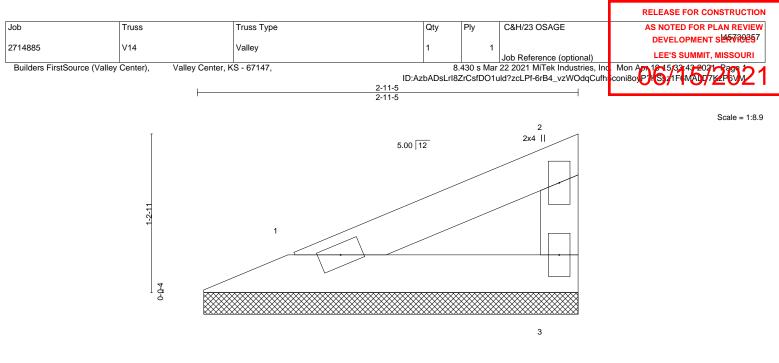
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 5-11-15 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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







2x4 ⋍

2x4 ||

except end verticals.

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

OADING (psf) CLL 25.0 CDL 10.0 CLL 0.0 CCL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES Pl2014	CSI. TC BC WB Matri	0.07 0.04 0.00 x-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 7 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SF	PF No.2				BRACING- TOP CHOR		Structu	ral wood	sheathing di	rectly applied or 2-1	1-5 oc purlins,

BOT CHORD

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

REACTIONS. (size) 1=2-10-11, 3=2-10-11 Max Horz 1=38(LC 9) Max Uplift 1=-17(LC 12), 3=-25(LC 12)

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.

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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

ANDREW THOMAS JOHNSON NUMBER PE-2017018993 STONAL ENGINE April 20,2021



