

RE: 2820534 Summit/#10 Osage

Site Information:

Customer: Project Name: 2820534 Lot/Block: Address: City:

Model: Subdivision: State:

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 07/26/2021

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

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

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

This package includes 64 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	145804333	A1	6/18/2021	21	145804353	A22	6/18/2021
2	145804334	A3	6/18/2021	22	145804354	A23	6/18/2021
3	145804335	A4	6/18/2021	23	145804355	A24	6/18/2021
4	145804336	A5	6/18/2021	24	145804356	A25	6/18/2021
5	145804337	A6	6/18/2021	25	145804357	A26	6/18/2021
6	145804338	A7	6/18/2021	26	145804358	A27	6/18/2021
7	145804339	A8	6/18/2021	27	145804359	A28	6/18/2021
8	145804340	A9	6/18/2021	28	145804360	B1	6/18/2021
9	I45804341	A10	6/18/2021	29	145804361	B2	6/18/2021
10	145804342	A11	6/18/2021	30	145804362	B3	6/18/2021
11	145804343	A12	6/18/2021	31	145804363	B4	6/18/2021
12	145804344	A13	6/18/2021	32	145804364	B5	6/18/2021
13	145804345	A14	6/18/2021	33	145804365	CJ1	6/18/2021
14	I45804346	A15	6/18/2021	34	145804366	CJ2	6/18/2021
15	145804347	A16	6/18/2021	35	145804367	J1	6/18/2021
16	I45804348	A17	6/18/2021	36	145804368	J2	6/18/2021
17	I45804349	A18	6/18/2021	37	145804369	J3	6/18/2021
18	145804350	A19	6/18/2021	38	145804370	J4	6/18/2021
19	I45804351	A20	6/18/2021	39	I45804371	J5	6/18/2021
20	145804352	A21	6/18/2021	40	145804372	J6	6/18/2021

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

MiTek USA, Inc under my direct supervision

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

Truss Design Engineer's Name: Johnson, Andrew

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

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.





RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 07/26/2021

RE: 2820534 - Summit/#10 Osage

Site Information:

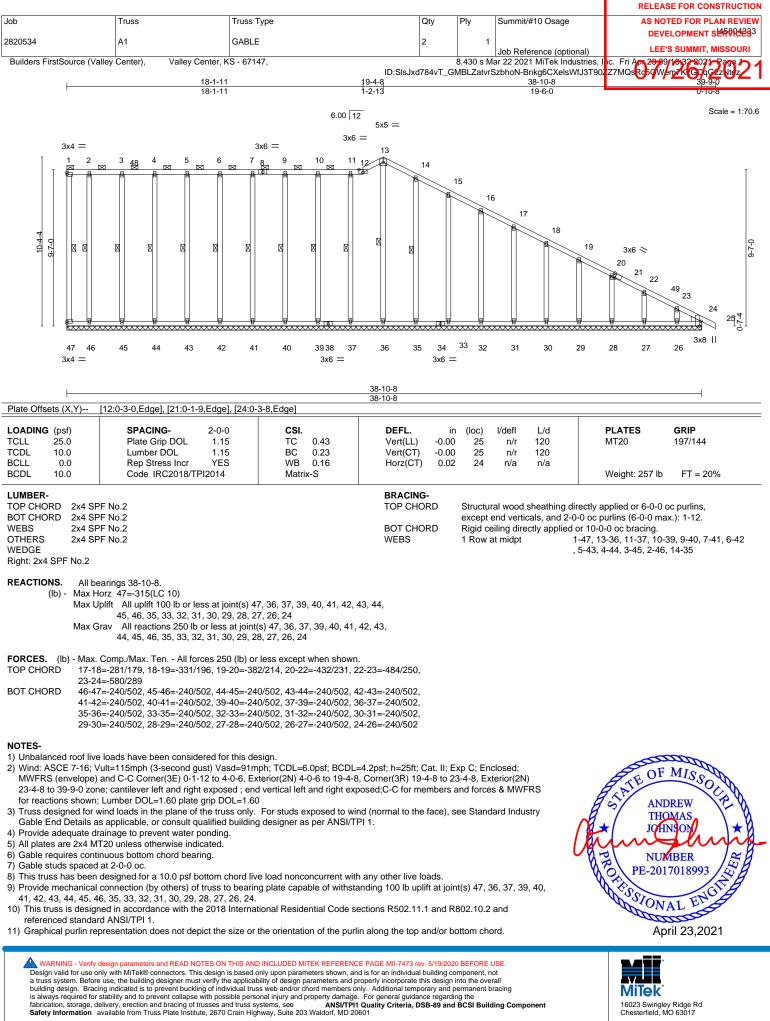
Project Customer: Lot/Block: Address: City, County:	Project Name: 28	20534
No Sool#	Truce Nome	Data

No.	Seal#	Truss Name	Date
41	145804373	LG1	6/18/2021
42	145804374	LG1 LG2	6/18/2021
43	145804375	LG3	6/18/2021
44	145804376	M1	6/18/2021
45	145804377	M2	6/18/2021
45 46	145804378	M2 M3	6/18/2021
40 47	145804379	M3 M4	6/18/2021
47 48	145804379	M4 M5	6/18/2021
40 49	145804381	M6	6/18/2021
-			
50	145804382	V1	6/18/2021
51	145804383	V2	6/18/2021
52	145804384	V3	6/18/2021
53	145804385	V4	6/18/2021
54	145804386	V5	6/18/2021
55	145804387	V6	6/18/2021
56	145804388	V7	6/18/2021
57	145804389	V9	6/18/2021
58	145804390	V10	6/18/2021
59	145804391	V11	6/18/2021
60	145804392	V12	6/18/2021
61	145804393	V13	6/18/2021
62	145804394	V15	6/18/2021
63	145804395	V16	6/18/2021
64	145804396	V17	6/18/2021
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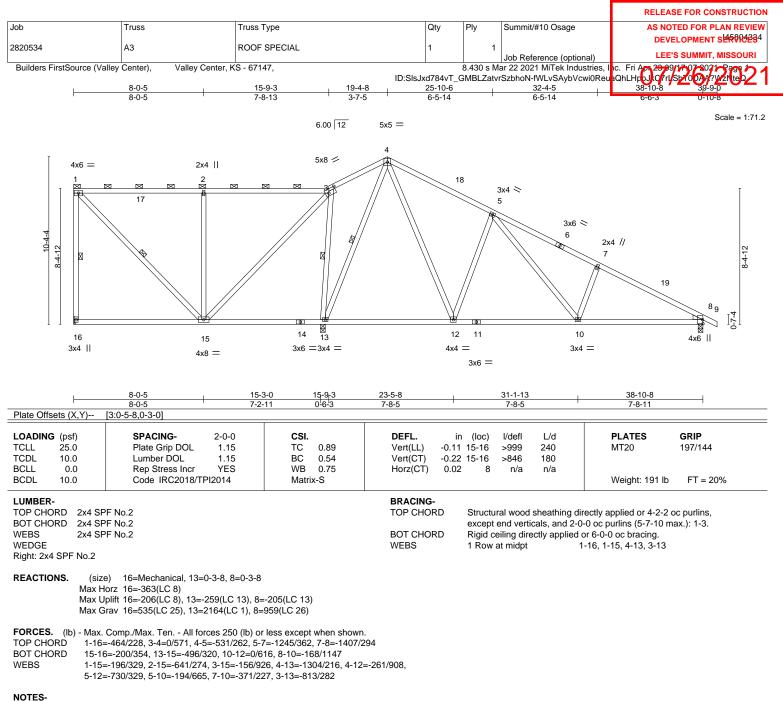
MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Subdivision:

State:



16023 Swingley Ridge Rd Chesterfield, MO 63017



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 4-0-6, Interior(1) 4-0-6 to 19-4-8, Exterior(2R) 19-4-8 to 23-3-2, Interior(1) 23-3-2 to 39-9-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

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

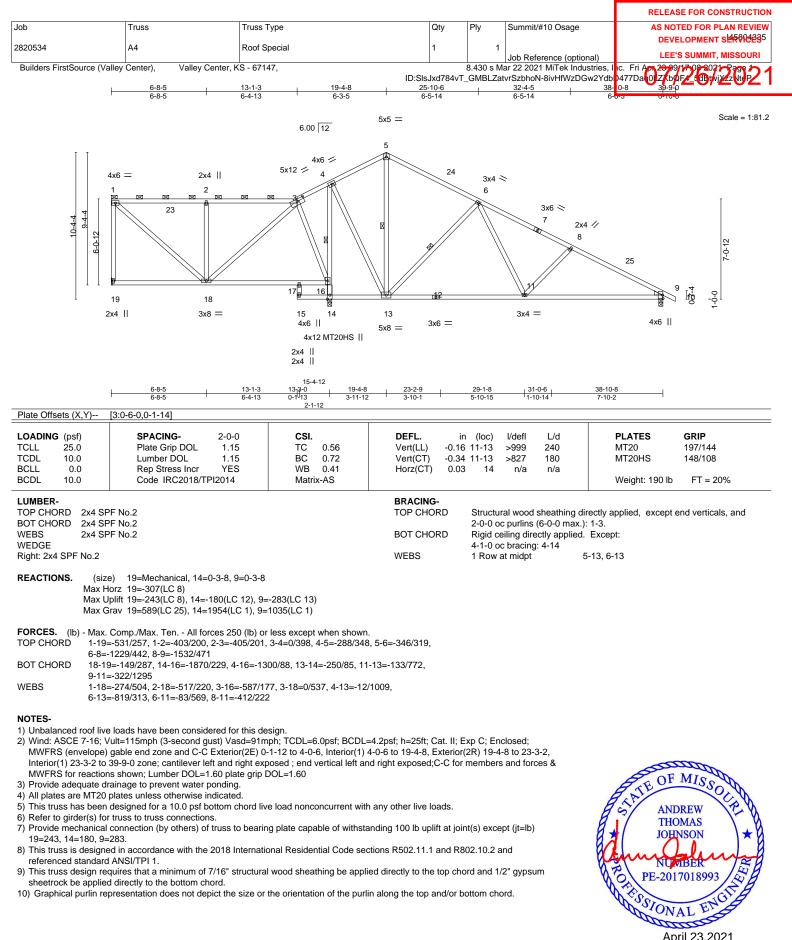
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=206, 13=259, 8=205.

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

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

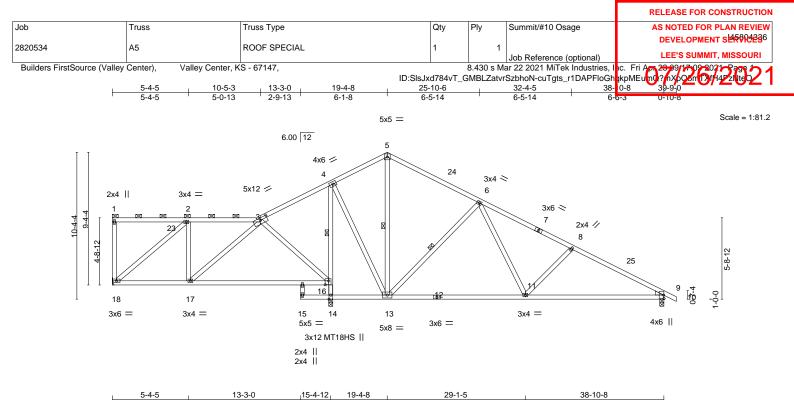






April 23,2021





	5-4-5 7-10-11	2-1-12 3-11-12	9-8-1	3	9-9-3	
Plate Offsets (X,Y)	[3:0-6-0,0-1-14], [16:0-3-0,0-3-4]	1 1				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. i	n (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.43		2 16-17 >837 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.72	Vert(CT) -0.43	3 16-17 >421 180	MT18HS	197/144
BCLL 0.0	Rep Stress Incr YES	WB 0.49	Horz(CT) 0.03	3 14 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 183 lb	FT = 20%
LUMBER-			BRACING-			
OP CHORD 2x4 SF	PF No.2		TOP CHORD	Structural wood sheathing	directly applied, except e	end verticals, and
BOT CHORD 2x4 SF	PF No.2			2-0-0 oc purlins (6-0-0 ma	k.): 1-3.	
VEBS 2x4 SF	PF No.2		BOT CHORD	Rigid ceiling directly applie	d. Except:	
WEDGE				1 Row at midpt	4-16	
Right: 2x4 SPF No.2				3-11-0 oc bracing: 14-16		
-			WEBS	1 Row at midpt	5-13, 6-13	
	a) 10 Machanical 11 0 2 0 0 0 2 0					

REACTIONS. (size) 18=Mechanical, 14=0-3-8, 9=0-3-8 Max Horz 18=-268(LC 8) Max Uplift 18=-224(LC 8), 14=-172(LC 12), 9=-290(LC 13)

Max Grav 18=584(LC 25), 14=2001(LC 1), 9=1032(LC 1)

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

- TOP CHORD
 2-3=-484/191, 3-4=0/449, 4-5=-290/366, 5-6=-340/335, 6-8=-1222/457, 8-9=-1525/487

 BOT CHORD
 17-18=-83/482, 16-17=-135/274, 14-16=-1957/203, 4-16=-1445/123, 13-14=-287/61, 11-13=-147/767, 9-11=-336/1289

 WEDD
 0.01/200
 0.01/200
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- WEBS 2-18=-610/257, 3-17=0/400, 3-16=-613/196, 6-13=-820/313, 6-11=-82/569, 8-11=-412/221, 4-13=0/1001

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 4-0-6, Interior(1) 4-0-6 to 19-4-8, Exterior(2R) 19-4-8 to 23-3-2, Interior(1) 23-3-2 to 39-9-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

4) All plates are MT20 plates unless otherwise indicated.

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

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=224, 14=172, 9=290.

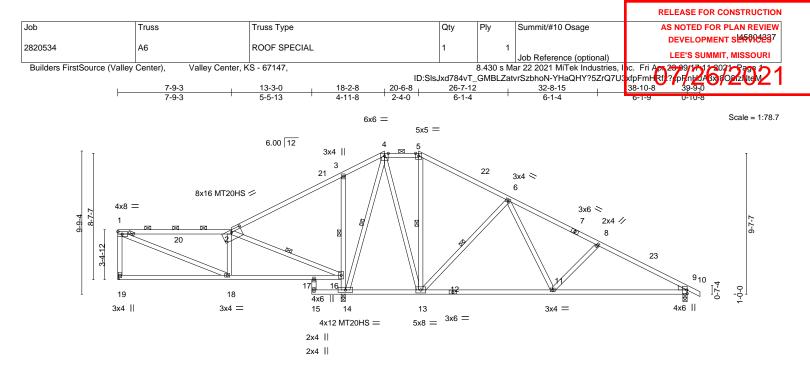
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

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





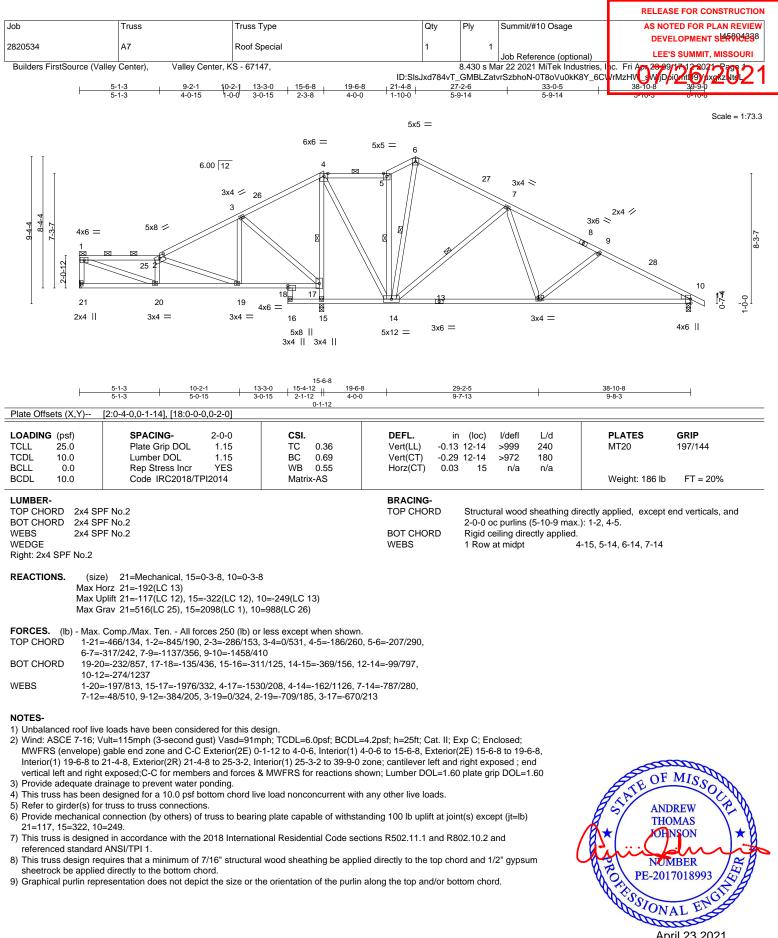


		13-3-0 15-4-12 18-2-8		29-8-5	1	38-10-8	
		5-5-13 2-1-12 2-9-12	2-4-0	9-1-13	1	9-2-3	
Plate Offsets (X,Y)	[2:0-8-0,0-1-14]		1				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.89 BC 0.73 WB 0.52	DEFL. ir Vert(LL) -0.16 Vert(CT) -0.34 Horz(CT) 0.03	9-11 >999 9-11 >819	L/d 240 180 n/a	PLATES MT20 MT20HS	GRIP 197/144 148/108
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S				Weight: 185 lb	FT = 20%
BOT CHORD 2x4 SF	2F No.2 2F No.2 2F No.2		BRACING- TOP CHORD BOT CHORD	except end verticals, and 2-0-0 oc purlins (2-8-10 max.): 1-2, 4-5			ax.): 1-2, 4-5.
			WEBS	1 Row at midpt	2-1	16, 5-13, 6-13, 4-14	
Max U Max G FORCES. (Ib) - Max. TOP CHORD 1-199 6-8= BOT CHORD 17-11 9-11: WEBS 1-183	lorz 19=-223(LC 8) Jplift 19=-162(LC 8), 14=-248(LC 12 Srav 19=522(LC 25), 14=2068(LC 1 Comp./Max. Ten All forces 250 (1 =-451/185, 1-2=-521/207, 2-3=0/530 -1232/413, 8-9=-1509/437 8=-136/521, 16-17=-136/521, 14-16 =-298/1260 =-207/484, 2-16=-873/224, 6-13=-70 =-152/954, 4-14=-1146/27), 9=1023(LC 26) 5) or less except when showr 1, 3-4=0/453, 4-5=-286/311, 5 =-902/354, 3-16=-510/273, 1	-6=-421/301, 1-13=-118/796,				
 2) Wind: ASCE 7-16; MWFRS (envelope) Exterior(2R) 20-6-8 exposed;C-C for me 3) Provide adequate d 4) All plates are MT20 5) This truss has been 6) Refer to girder(s) fo 7) Provide mechanical 19=162, 14=248, 9= 	ed in accordance with the 2018 Inte	91mph; TCDL=6.0psf; BCDL E) 0-1-12 to 4-0-6, Interior(1) 0 zone; cantilever left and rig actions shown; Lumber DOL= rd live load nonconcurrent wit earing plate capable of withst	4-0-6 to 18-2-8, Exterior ht exposed ; end vertical 1.60 plate grip DOL=1.60 h any other live loads. anding 100 lb uplift at join	(2E) 18-2-8 to 20-6 left and right) nt(s) except (jt=lb)	-8,	t JOH	MISSOLA REW MAS ISON

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

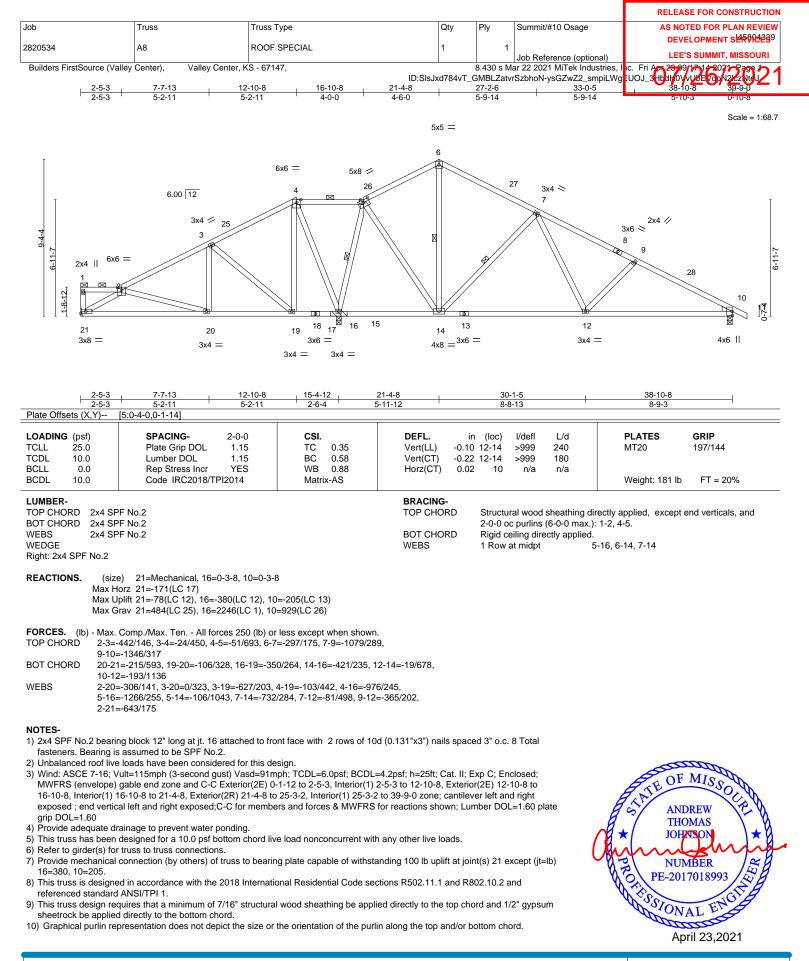


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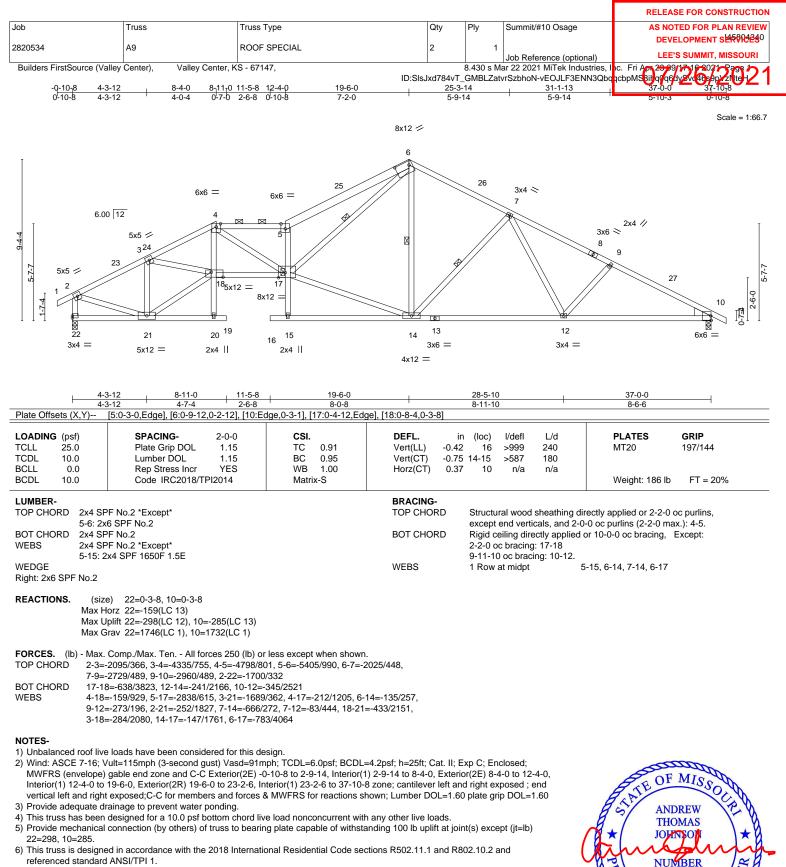


April 23,2021





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 16023 Swingley Ridge Rd Chesterfield, MO 63017

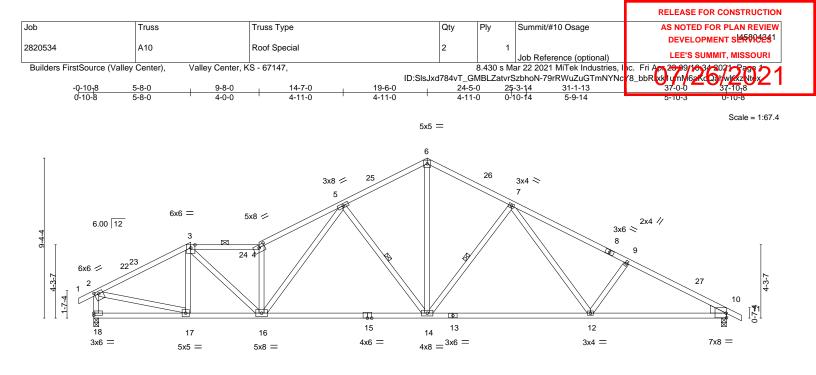


7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

PL PL PL SSIONAL E April 23,2021

PE-2017018993

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

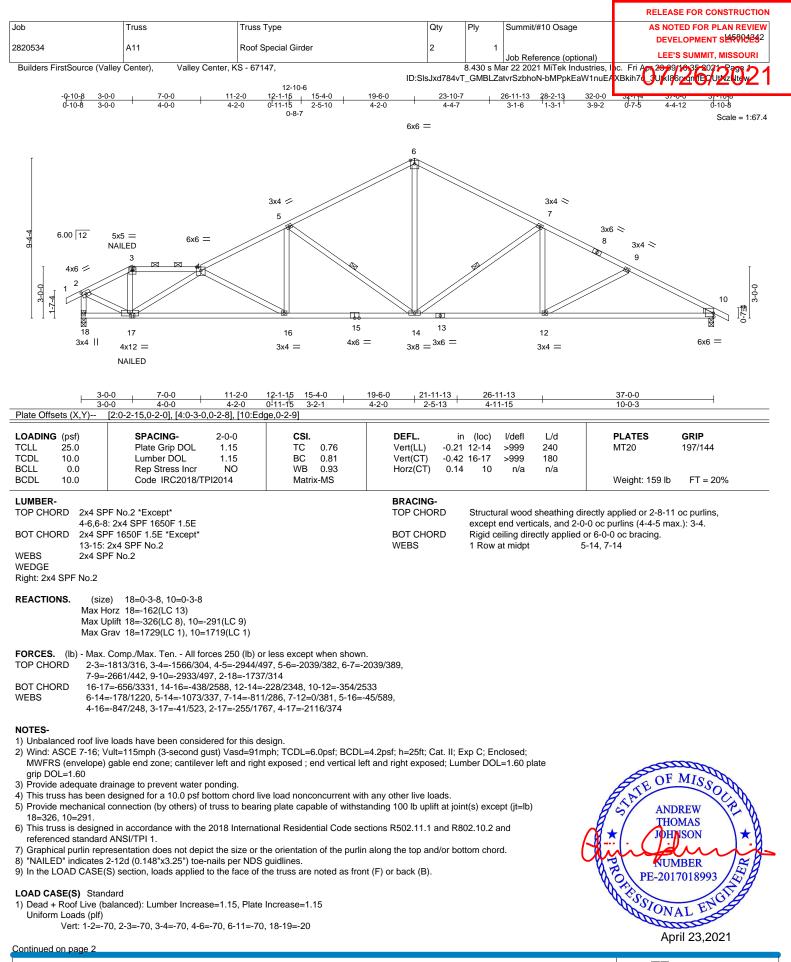


 	<u>5-8-0</u>	9-8-0	<u>19-6-0</u> 9-10-0			7-10-7 3-4-7	29-0-8	<u> </u>	
Plate Offsets (X,Y)		0-4-0,0-1-14], [10:Ed			0	5-4-7	1-2-1	7-11-0	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip Du Lumber DOL Rep Stress I Code IRC20	. 1.15 ncr YES	CSI. TC 0.63 BC 0.91 WB 0.56 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (lo -0.23 14- -0.53 14- 0.12	16 >999	L/d 240 180 n/a	PLATES MT20 Weight: 165 lb	GRIP 197/144 FT = 20%
BOT CHORD 2x4 SI	PF No.2 PF No.2 PF No.2			BRACING- TOP CHOR BOT CHOR WEBS	RD Str 2-0 RD Rig	ructural wood s D-0 oc purlins (gid ceiling dire Row at midpt	(3-2-12 max. ctly applied.	rectly applied, except e): 3-4. -14, 7-14	end verticals, and
Max H Max L Max C FORCES. (Ib) - Max TOP CHORD 2-3=	-2233/398, 3-4=-294)), 10=-287(LC 13) , 10=1719(LC 1) All forces 250 (lb) or i6/535, 4-5=-3310/64	less except when shown. 12, 5-6=-1999/439, 6-7=-2						
BOT CHORD 16-1 WEBS 3-16	6=-203/1408, 4-16=-1	=-339/2217, 12-14=- 759/392, 5-16=-259	/356 229/2104, 10-12=-345/25 /1135, 5-14=-844/313, 6-′ 15, 3-17=-379/95, 2-17=-2	4=-263/1418,					
MWFRS (envelope Interior(1) 8-8-0 to vertical left and righ 3) Provide adequate of 4) This truss has been	Vult=115mph (3-seco) gable end zone and 19-6-0, Exterior(2R) ht exposed;C-C for m drainage to prevent w n designed for a 10.0	and gust) Vasd=91m d C-C Exterior(2E) -0 19-6-0 to 22-6-0, Inte embers and forces & rater ponding. psf bottom chord liv	sign. ph; TCDL=6.0psf; BCDL= -10-8 to 2-1-8, Interior(1) erior(1) 22-6-0 to 37-10-8 MWFRS for reactions sh e load nonconcurrent with to plate capable of withsta	2-1-8 to 5-8-0, Ex zone; cantilever le nown; Lumber DO	tterior(2R) sett and right L=1.60 plat	5-8-0 to 8-8-0, t exposed ; en te grip DOL=1	d	STE OF	MISSOL

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=308, 10=287.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





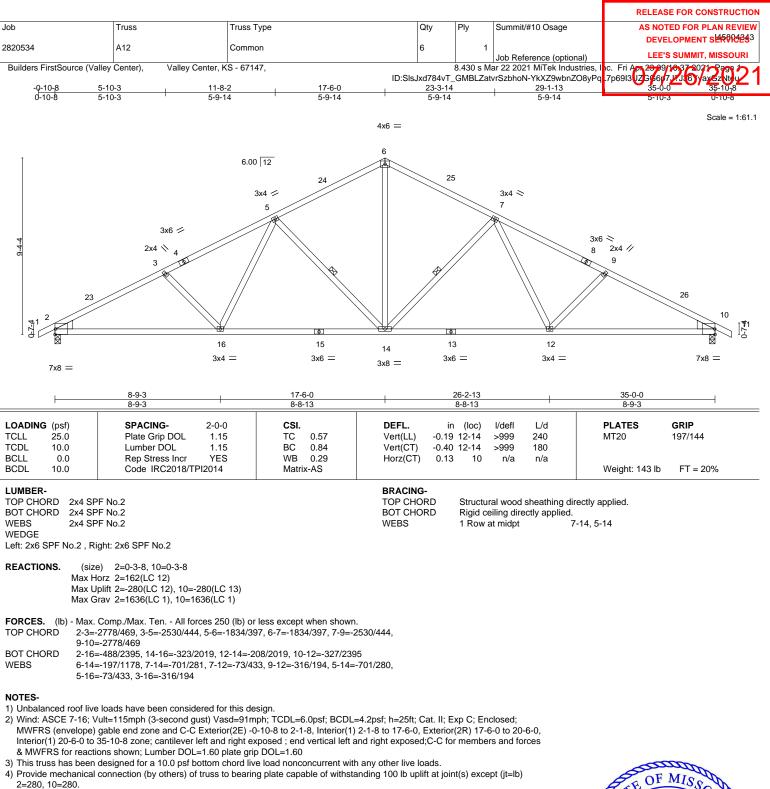




						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Summit/#10 Osage	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
2820534	A11	Roof Special Girder	2	1		LEE'S SUMMIT, MISSOURI
					Job Reference (optional)	
Builders FirstSource (Valle	y Center), Valley Center,	KS - 67147,		8.430 s Ma	ar 22 2021 MiTek Industries, I	ic. Fri Apr 23-99/16:35-2021 Page 2
			ID:SIsJxd784vT	_GMBLZa	tvrSzbhoN-bMPpkEaW1nuEA	XBkih70_3Urkl86ryqntEQUtVzUtew

LOAD CASE(S) Standard Concentrated Loads (Ib) Vert: 17=1(B)



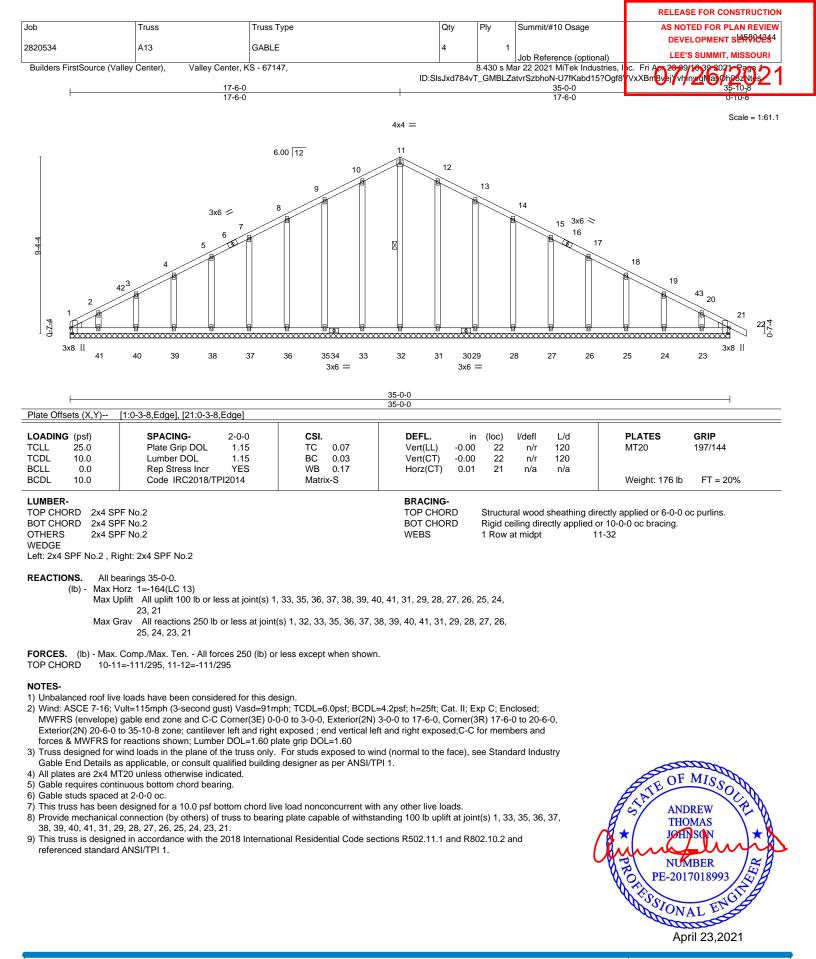


5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

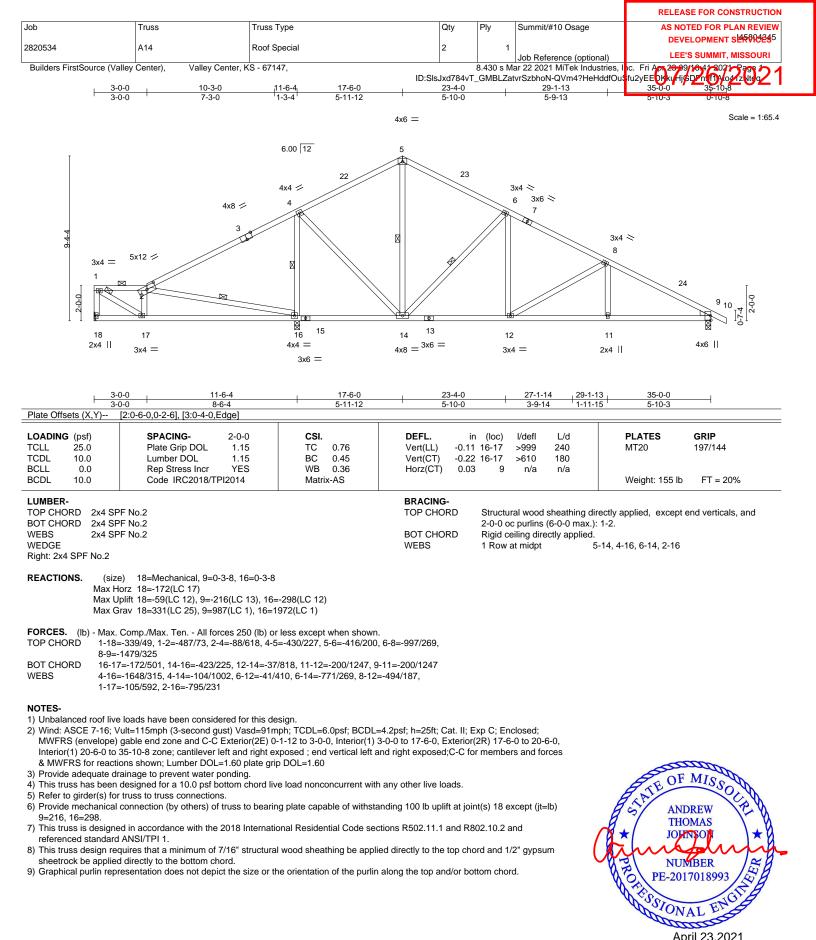
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







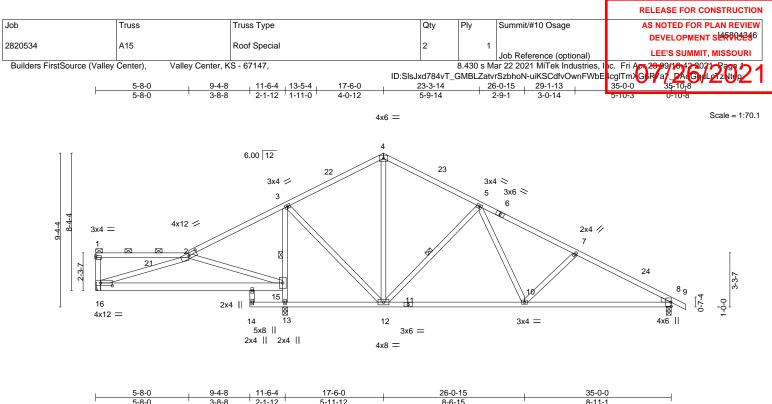




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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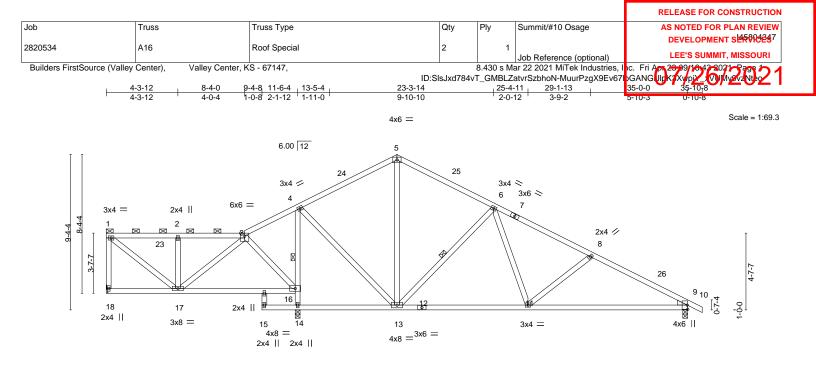




	5-8-0 ' 3-8-8 '	2-1-12 5-11-12	8-6-	15	1	8-11-1	
Plate Offsets (X,Y)	[2:0-6-0,0-1-14], [16:0-8-8,0-2-0]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.54 BC 0.61 WB 0.44 Matrix-AS	Vert(LL) -0.19	(loc) l/defl 15-16 >725 15-16 >364 13 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 159 lb	GRIP 197/144 FT = 20%
			BRACING- TOP CHORD BOT CHORD WEBS	Structural wood 2-0-0 oc purlins Rigid ceiling dir 1 Row at midpt	(6-0-0 max.): ectly applied.	rectly applied, except : 1-2. 3-13, 5-12	end verticals, and
Max H Max U Max C FORCES. (Ib) - Max. TOP CHORD 2-3= BOT CHORD 15-1 WEBS 2-15	 8=0-3-8, 13=0-3-8, 16=Mechanica forz 16=-194(LC 13) Jplift 8=-263(LC 13), 13=-231(LC 12), 1 Grav 8=1090(LC 1), 13=1696(LC 1), 16 Comp./Max. Ten All forces 250 (lb) 4 -56/301, 3-4=-649/325, 4-5=-644/302, 4 6=-224/560, 10-12=-130/981, 8-10=-29 =-643/261, 2-16=-433/360, 13-15=-166 -727/279, 5-10=-69/483, 7-10=-354/19 	6=-133(LC 8) =467(LC 25) or less except when shown 5-7=-1396/406, 7-8=-1669/ 8/1421 2/271, 3-15=-1298/230, 3-	437				
 Wind: ASCE 7-16; ' MWFRS (envelope), Interior(1) 20-6-0 t & MWFRS for react Provide adequate d This truss has been Refer to girder(s) fo Provide mechanical 8=263, 13=231, 16: This truss is design referenced standard This truss design re sheetrock be applie 	ed in accordance with the 2018 Interna	mph; TCDL=6.0psf; BCDL= 0-1-12 to 3-1-12, Interior(1) exposed ; end vertical left rip DOL=1.60 ive load nonconcurrent with ing plate capable of withsta tional Residential Code sec al wood sheathing be appli	3-1-12 to 17-6-0, Exteria and right exposed;C-C for any other live loads. Inding 100 lb uplift at join ations R502.11.1 and R80 ed directly to the top cho	or(2R) 17-6-0 to or members and t(s) except (jt=lb D2.10.2 and rd and 1/2" gyps	forces)		MISSOUTH DREW DMAS NSON WBER 7018993







H	4-3-12 8-4-0 9-4-8 1 4-3-12 4-0-4 1-0-8 2	<u>1-6-4</u> <u>17-6-0</u> -1-12 <u>5-11-12</u>	25-4-11 7-10-11	27-1 1-9	-14 -3	35-0-0 7-10-2	4
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 0.36 BC 0.63 WB 0.92 Matrix-AS	Vert(LL) -0.13	(loc) l/defl 11-22 >999 11-22 >999 14 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 159 lb	GRIP 197/144 FT = 20%
BOT CHORD 2x4 SF	PF No.2 PF No.2 PF No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood 2-0-0 oc purlins Rigid ceiling dire 1 Row at midpt	(6-0-0 max.): ectly applied.	ectly applied, except 1-3. 14, 6-13	end verticals, and
Max L Max C	 18=Mechanical, 9=0-3-8, 14=0-3-8 torz 18=-224(LC 8) Jplift 18=-174(LC 8), 9=-265(LC 13), 14 Grav 18=476(LC 25), 9=1093(LC 1), 14 Comp./Max. Ten All forces 250 (lb) c 	=-205(LC 12) =1685(LC 1)					
TOP CHORD 1-18 6-8= BOT CHORD 11-1 WEBS 14-1	=-454/178, 1-2=-425/145, 2-3=-427/147 =-1353/393, 8-9=-1668/444 3=-130/993, 9-11=-304/1423 6=-1588/246, 4-16=-1224/189, 3-16=-4	7, 3-4=-51/281, 4-5=-649/3 19/111, 4-13=0/793, 2-17=	28, 5-6=-650/306, :-332/140,				
NOTES- 1) Unbalanced roof liv 2) Wind: ASCE 7-16; ` MWFRS (envelope) , Interior(1) 20-6-0 t & MWFRS for react 3) Provide adequate d 4) This truss has been 5) Refer to girder(s) fo	=-204/523, 3-17=0/296, 6-13=-738/274 e loads have been considered for this d /ult=115mph (3-second gust) Vasd=911) gable end zone and C-C Exterior(2E) (o 35-10-8 zone; cantilever left and right ions shown; Lumber DOL=1.60 plate gi rainage to prevent water ponding. designed for a 10.0 psf bottom chord li r truss to truss connections.	esign. nph; TCDL=6.0psf; BCDL=)-1-12 to 3-1-12, Interior(1) exposed ; end vertical left ip DOL=1.60 ve load nonconcurrent with	=4.2psf; h=25ft; Cat. II; E; 3-1-12 to 17-6-0, Exteric and right exposed;C-C fo n any other live loads.	or(2R) 17-6-0 to 2 or members and f	orces	STE OF	MISS
 6) Provide mechanical 18=174, 9=265, 14= 7) This truss is design referenced standard 	l connection (by others) of truss to bear =205. ed in accordance with the 2018 Internat	ional Residential Code sec	ctions R502.11.1 and R80)2.10.2 and			DREW DMAS NSOM

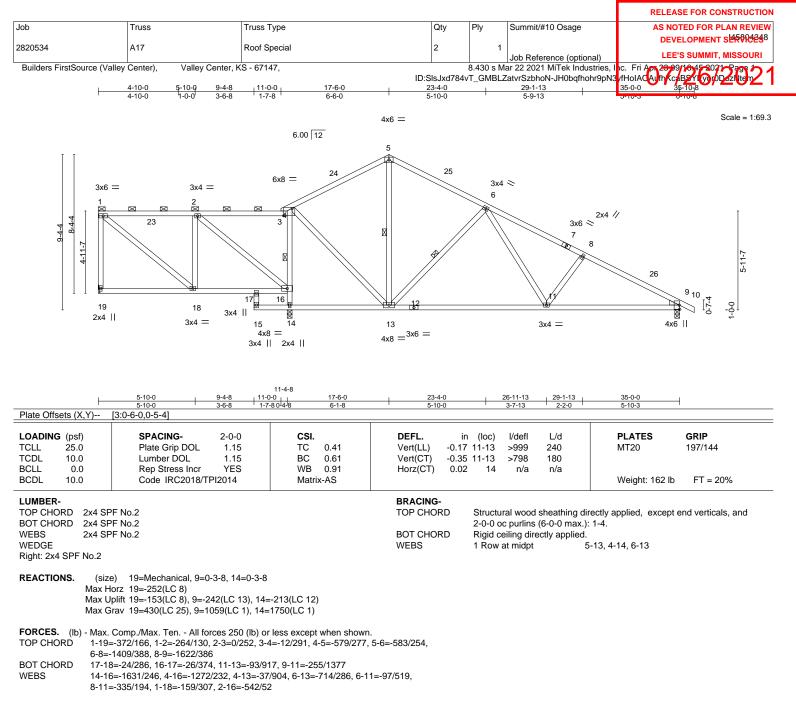
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MITEK[®] 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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 17-6-0, Exterior(2R) 17-6-0 to 20-6-0 , Interior(1) 20-6-0 to 35-10-8 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=153, 9=242, 14=213.
- 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.





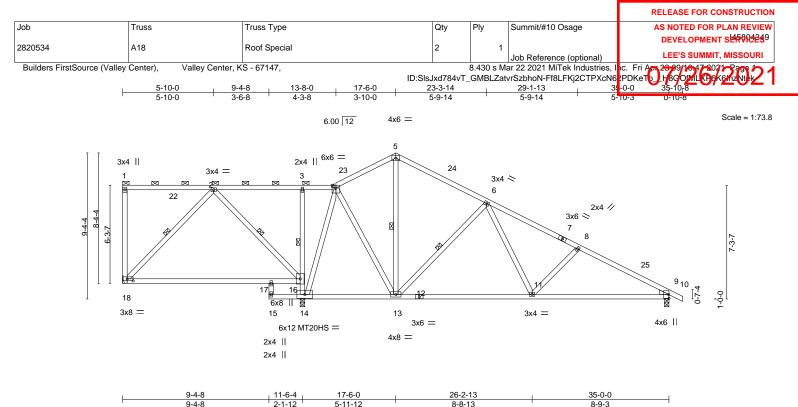


Plate Offse	ets (X,Y)	[18:0-4-8,0-1-8]		2-1-12	J-11-12		0-0-1	5			0-0-0	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.29	· · /	>465	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.57	17-18	>239	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.03	14	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-AS						Weight: 168 lb	FT = 20%
LUMBER-	RD 2x4 SP	PF No.2				BRACING- TOP CHOR		Structu	ural wood	l sheathing d	lirectly applied, except	
BOT CHOP		PF No.2								(6-0-0 max.		
WEBS		PF No.2				BOT CHOR	RD			ectly applied	/	
OTHERS	2x4 SP	PF No.2							oc bracino			
WEDGE						WEBS			at midpt		2-18, 2-16, 5-13, 6-13	

Right: 2x4 SPF No.2

REACTIONS. (size) 14=0-3-8, 9=0-3-8, 18=Mechanical Max Horz 18=-300(LC 8) Max Uplift 14=-92(LC 12), 9=-281(LC 13), 18=-266(LC 8) Max Grav 14=1872(LC 1), 9=1019(LC 1), 18=355(LC 25)

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

TOP CHORD 2-3=0/406, 3-4=0/418, 4-5=-447/366, 5-6=-493/341, 6-8=-1264/445, 8-9=-1529/470

BOT CHORD 14-16=-716/99, 3-16=-305/139, 11-13=-164/848, 9-11=-328/1297

- WEBS 2-18=-131/351, 2-16=-547/0, 6-13=-728/278, 6-11=-69/502, 8-11=-357/195,
 - 4-14=-1031/120, 4-13=0/753

NOTES-

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

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 17-6-0, Exterior(2R) 17-6-0 to 20-6-0, Interior(1) 20-6-0 to 35-10-8 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) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 9=281, 18=266.

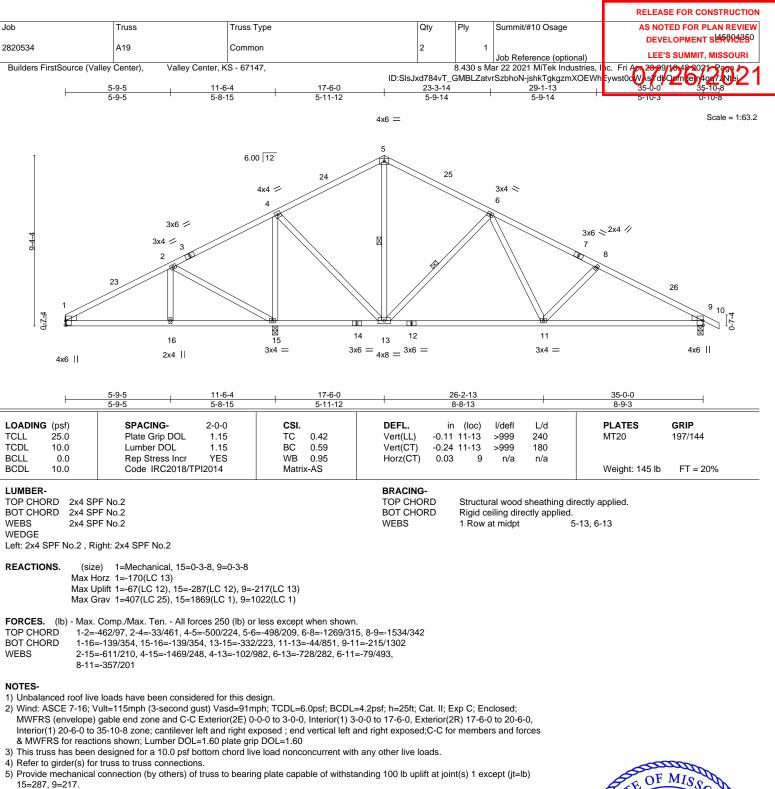
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

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



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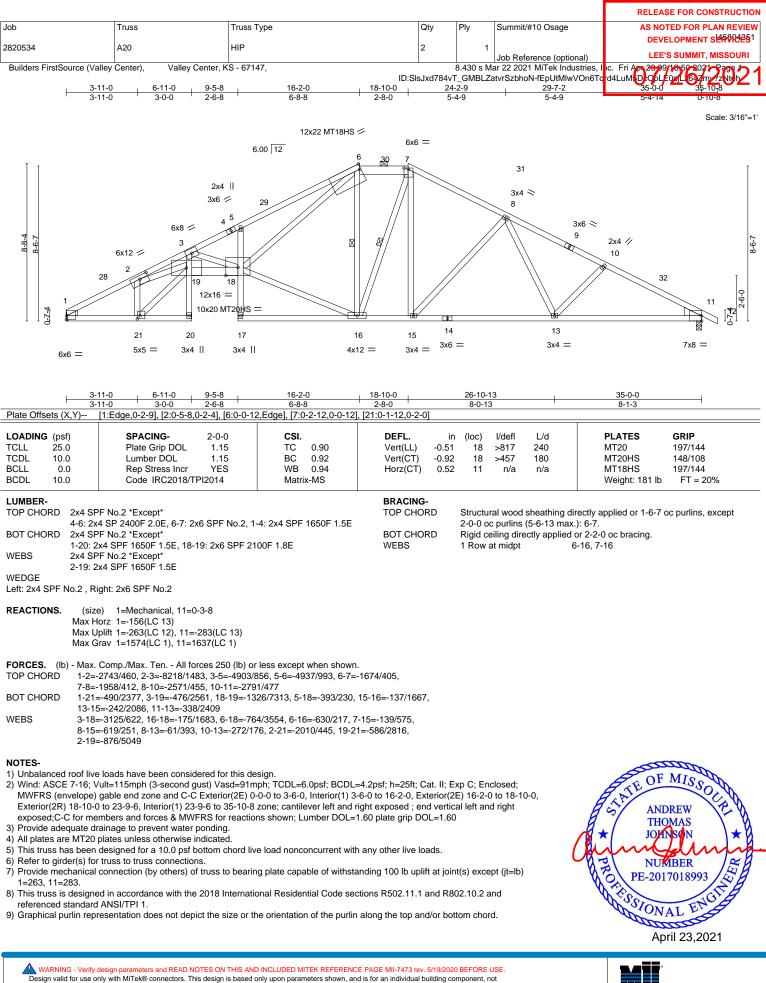


6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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.



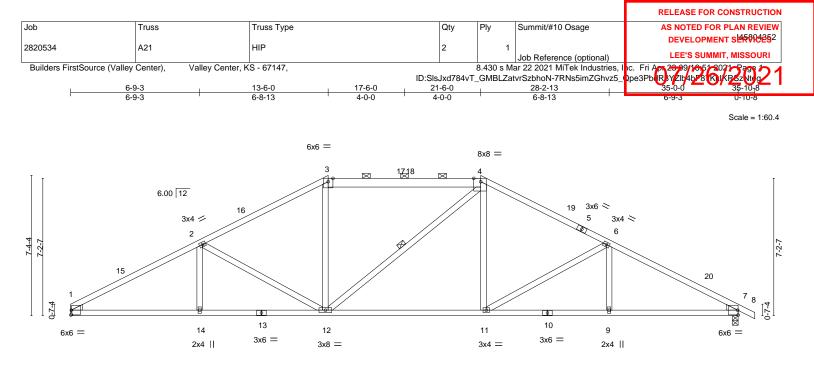




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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 	6-9-3 6-9-3	<u>13-6-0</u> 6-8-13		<u>21-6-0</u> 8-0-0	28-2-13 6-8-13	35-0-0	
Plate Offsets (X,Y)	[4:0-4-6,Edge]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Inc Code IRC2018	1.15 r YES	CSI. TC 0.96 BC 0.86 WB 0.59 Matrix-S		11-12 >999 240 11-12 >999 180	PLATES MT20 Weight: 143 lb	GRIP 197/144 FT = 20%
3-4: 2x	2F No.2 *Except* 6 SPF No.2 2F No.2 2F No.2			BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing dir 2-0-0 oc purlins (4-4-3 max.): Rigid ceiling directly applied c 1 Row at midpt 4	3-4.	

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

REACTIONS. (size) 1=Mechanical, 7=0-3-8 Max Horz 1=-127(LC 17) Max Uplift 1=-268(LC 12), 7=-287(LC 13) Max Grav 1=1565(LC 1), 7=1638(LC 1)

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

- TOP CHORD 1-2=-2818/475, 2-3=-2228/418, 3-4=-1895/414, 4-6=-2221/415, 6-7=-2811/460
- BOT CHORD 1-14=-453/2408, 12-14=-453/2408, 11-12=-176/1888, 9-11=-313/2371, 7-9=-313/2371
- WEBS 2-14=0/278, 2-12=-594/245, 3-12=-42/479, 4-11=-51/474, 6-11=-562/239, 6-9=0/274

NOTES-

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

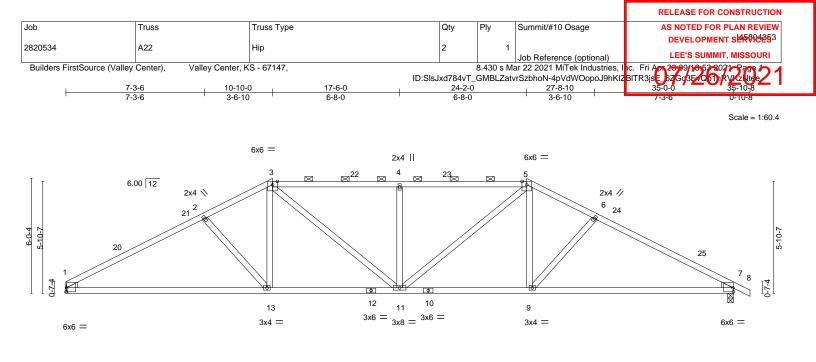
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-12 to 3-0-12, Interior(1) 3-0-12 to 13-6-0, Exterior(2R) 13-6-0 to 17-8-15, Interior(1) 17-8-15 to 21-6-0, Exterior(2R) 21-6-0 to 25-8-15, Interior(1) 25-8-15 to 35-10-8 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=268, 7=287.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



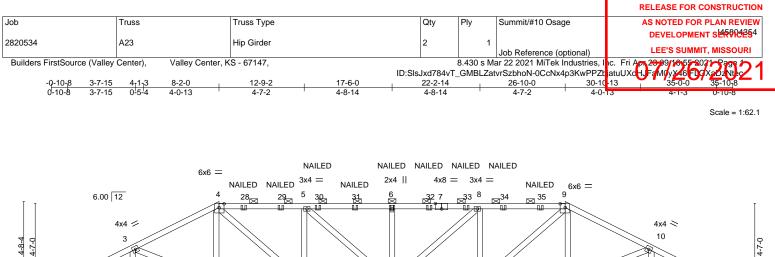




l	10-10-0	<u> </u>	24-2-0			<u>35-0-0</u> 10-10-0					
Plate Offsets (X,Y)	[1:Edge,0-2-9], [7:Edge,0-2-9]	000	000			10 10 0					
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.64 BC 0.85 WB 0.31 Matrix-AS	Vert(LL) -0.22	(loc) l/defl 13-16 >999 13-16 >872 7 n/a	240 180	PLATES MT20 Weight: 134 lb	GRIP 197/144 FT = 20%				
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP WEDGE Left: 2x4 SPF No.2 , Ri	PF No.2 PF No.2		BRACING- TOP CHORD BOT CHORD	2-0-0 oc purli	od sheathing di ns (2-11-1 max. lirectly applied.	rectly applied, except .): 3-5.					
Max H Max U	e) 1=Mechanical, 7=0-3-8 lorz 1=-108(LC 13) plift 1=-272(LC 12), 7=-292(LC 13) irav 1=1574(LC 1), 7=1637(LC 1)										
TOP CHORD 1-2=- 6-7=-	FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-2711/481, 2-3=-2431/450, 3-4=-2534/485, 4-5=-2534/485, 5-6=-2427/449, 6-7=-2707/479										
WEBS 2-13=	418/2325, 11-13=-295/2131, 9-11=-21 287/182, 3-13=-63/431, 3-11=-183/655 62/430, 6-9=-282/181	,	183/657,								
 2) Wind: ASCE 7-16; W MWFRS (envelope) , Interior(1) 15-0-15 end vertical left and DOL=1.60 3) Provide adequate dr 4) This truss has been 5) Refer to girder(s) for 6) Provide mechanical 1=272, 7=292. 7) This truss is designer referenced standard 8) This truss design referenced bandard 8) This truss design referenced bandard 	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone and C-C Exterior(2E) 0 to 24-2-0, Exterior(2R) 24-2-0 to 28-4-19 right exposed;C-C for members and for rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv r truss to truss connections. connection (by others) of truss to bearin ed in accordance with the 2018 Internation I ANSI/TPI 1. quires that a minimum of 7/16" structura d directly to the bottom chord. resentation does not depict the size or th	ph; TCDL=6.0psf; BCDL= 0-0 to 3-0-0, Interior(1) 3 5, Interior(1) 28-4-15 to 3 ces & MWFRS for reaction e load nonconcurrent with g plate capable of withsta onal Residential Code sec l wood sheathing be appl	-0-0 to 10-10-0, Exterior(5-10-8 zone; cantilever le ns shown; Lumber DOL= h any other live loads. anding 100 lb uplift at joir ctions R502.11.1 and R8 ied directly to the top cho	2R) 10-10-0 to ft and right exp 1.60 plate grip nt(s) except (jt= 02.10.2 and ord and 1/2" gyp	15-0-15 osed ; b)	THO JOH NUM PE-201 SSION	MAS ISON IBER 7018993				

April 23,2021

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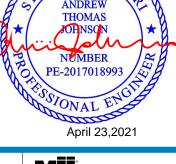


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	21	36	³⁷ 20	3819	39	18 ⁴⁰	41	17	42	⁴³ 16	44	1545	14 ⁴⁶	47	13		0
8x12 📁	2x4	LUS24	3x4 =	= 6x6 =	= 5	ix5 =	NAILED	3x8 =	NAILED	5x5	5 =	6x6 =	3x4 =	LUS24	2x4	8x12 📚	
0,12 2	LUS24		LUS24	NAILED	NAILED	NAILED		NAILED		NAILED	NAILED	NAILED	LUS24		LUS24		

3-7-15 0-5-4 4-0-13 4	2:9-2 17-6-0 22-2:14 -7-2 4-8-14 4-8-14 0,Edge], [9:0-3-4,0-2-8], [10:0-0-0,0-0-0], [11:0-1	<u>26-10-0</u> <u>4-7-2</u>	30-10-13 35-0-0 4-0-13 4-1-3				
LOADING (psf) SPACING- 2-0-0 TCLL 25.0 Plate Grip DOL 1.15 TCDL 10.0 Lumber DOL 1.15 BCLL 0.0 Rep Stress Incr NO BCDL 10.0 Code IRC2018/TPl2014	CSI. DEFL. TC 0.90 Vert(LL) 0.4 BC 0.61 Vert(CT) -0.6 WB 0.52 Horz(CT) 0.1 Matrix-MS Horz(CT) 0.1	8 17 >615 180	PLATES GRIP MT20 197/144 Weight: 185 lb FT = 20%				
LUMBER- TOP CHORD 2x4 SPF 1650F 1.5E BOT CHORD 2x6 SP 2400F 2.0E *Except* 15-19: 2x6 SPF 2100F 1.8E WEBS 2x4 SPF No.2 WEDGE Left: 2x6 SP No.2, Right: 2x6 SP No.2 REACTIONS. (size) 2=0-3-8, 11=0-3-8 Max Horz 2=-78(LC 34) Max Uplift 2=-1067(LC 9) Max Grav 2=3132(LC 1), 11=3132(LC 1)							
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-5656/1960, 3-4=-5364/1939, 4-5=-6056/2275, 5-6=-6493/2396, 6-8=-6493/2396, 8-9=-6056/2275, 9-10=-5364/1939, 10-11=-5656/1961 BOT CHORD 2-21=-1764/4995, 20-21=-1764/4995, 18-20=-1671/4748, 17-18=-2174/6054, 16-17=-2133/6054, 14-16=-1592/4748, 13-14=-1687/4995, 11-13=-1687/4995 WEBS 3-20=-253/190, 4-20=-216/779, 4-18=-792/1859, 5-18=-1030/497, 5-17=-293/654, 6-17=-505/273, 8-17=-294/654, 8-16=-1030/497, 9-16=-792/1859, 9-14=-215/779, 10-14=-253/191							
 NOTES- 1) Unbalanced roof live loads have been considered for this di 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91n MWFRS (envelope) gable end zone; cantilever left and righ 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 5) Provide mechanical connection (by others) of truss to bearin 2=1067, 11=1067. 	hph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; t exposed ; end vertical left and right exposed; Lu re load nonconcurrent with any other live loads.	imber DOL=1.60 plate	ANDREW THOMAS				

- 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) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 20-0-0 oc max. starting at
- 3-6-0 from the left end to 31-6-0 to connect truss(es) to front face of bottom chord.
- 9) Fill all nail holes where hanger is in contact with lumber.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines. 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Continued on page 2





							RELEASE FOR CONSTRUCTION
- [-	lob	Truss	Truss Type	Qty	Ply	Summit/#10 Osage	AS NOTED FOR PLAN REVIEW
							DEVELOPMENT SERVICES
2	2820534	A23	Hip Girder	2	1	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
	Builders FirstSource (Valley	Center), Valley Center, K	S - 67147, ID:SIsJxc	1784vT_GN	8.430 s M MBLZatvrS	ar 22 2021 MiTek Industries, I szbhoN-UOAl8Pqh5EXFBIImC	ic. Fri Apr 2999/1056 2021 Page 2 c?mKUtOkn/MBGXN602059/zUUb2

LOAD CASE(S) Standard

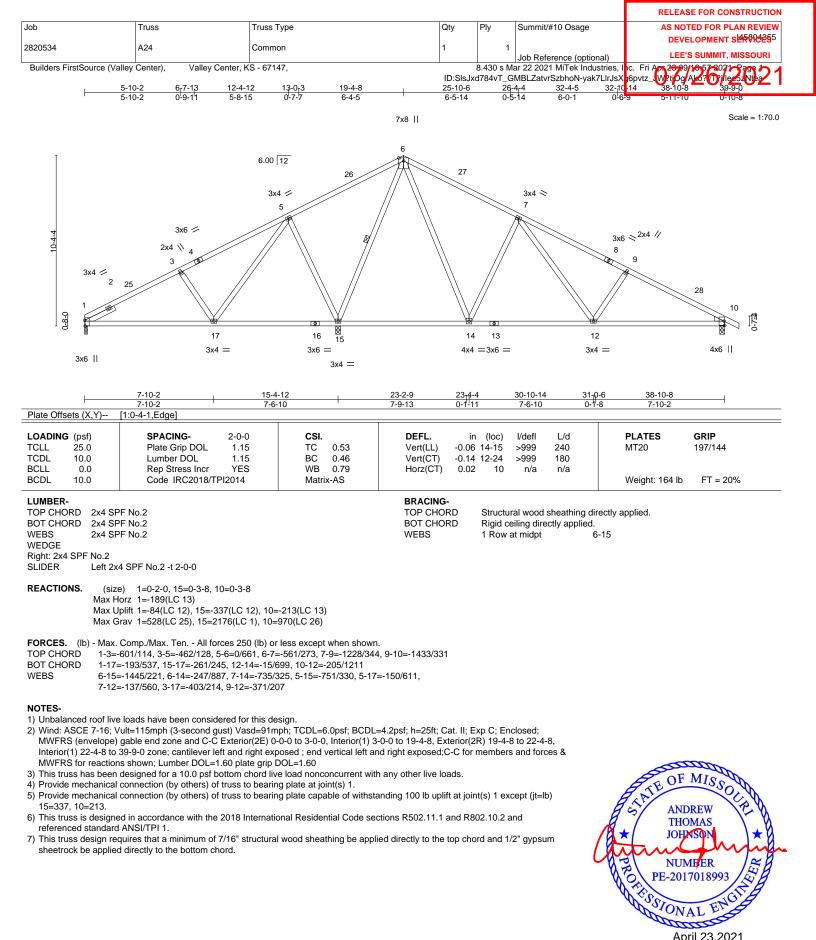
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-4=-70, 4-9=-70, 9-12=-70, 22-25=-20

Concentrated Loads (lb)

Vert: 17=-79(F) 6=-79(F) 13=-316(F) 21=-316(F) 28=-79(F) 29=-79(F) 30=-79(F) 31=-79(F) 32=-79(F) 33=-79(F) 34=-79(F) 35=-79(F) 35=-79(F) 36=-233(F) 37=-233(F) 38=-79(F) 39=-79(F) 40=-79(F) 41=-79(F) 42=-79(F) 43=-79(F) 45=-79(F) 45=-79(F) 46=-233(F) 47=-233(F) 47=-233(F) 47=-233(F) 47=-233(F) 47=-233(F) 47=-233(F) 47=-233(F) 47=-233(F) 45=-79(F) 45=-79(F

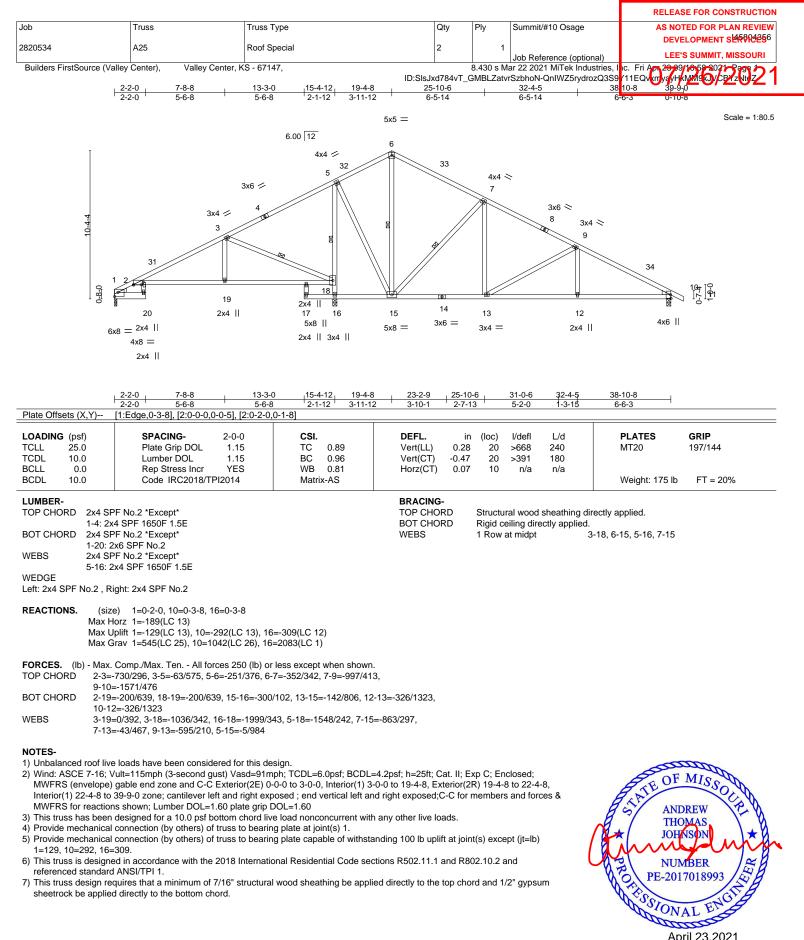




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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

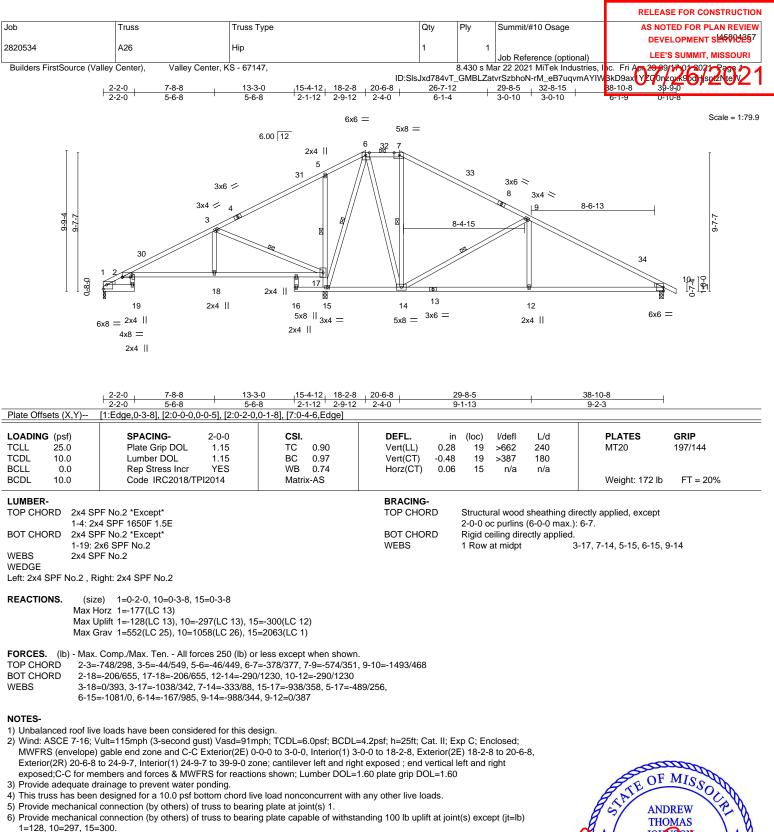


April 23,2021



April 23,2021





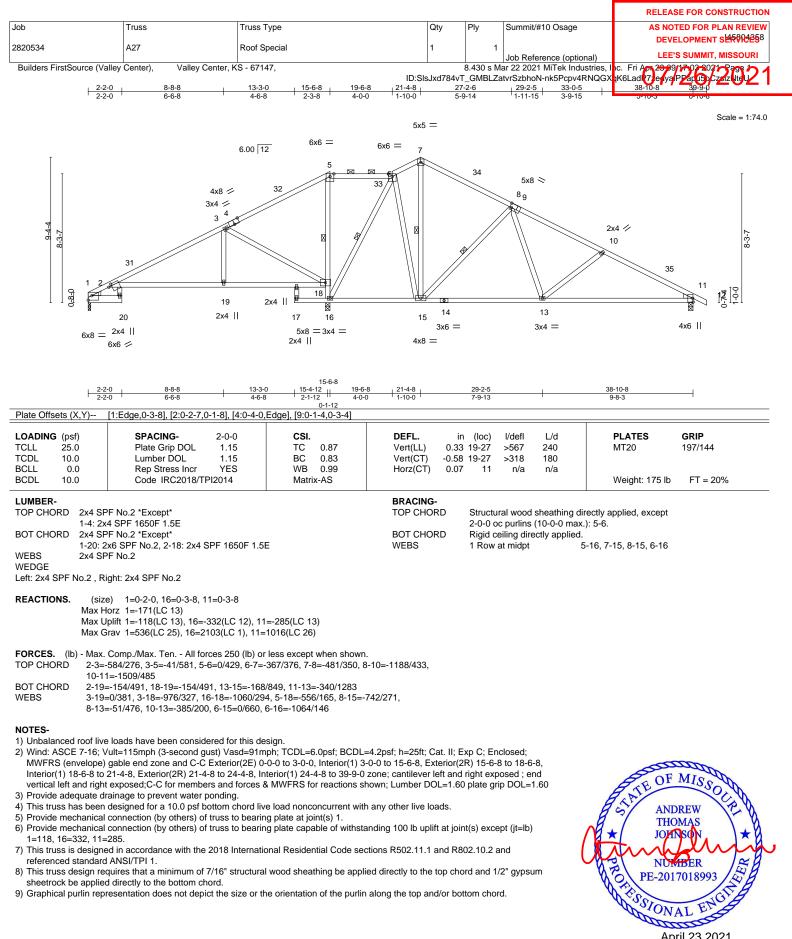
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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.

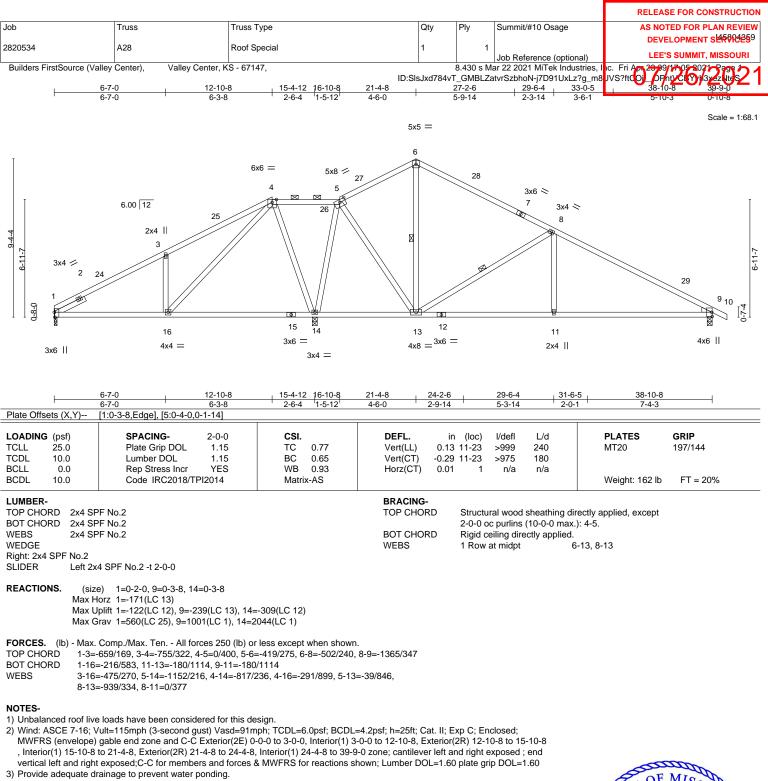






April 23,2021

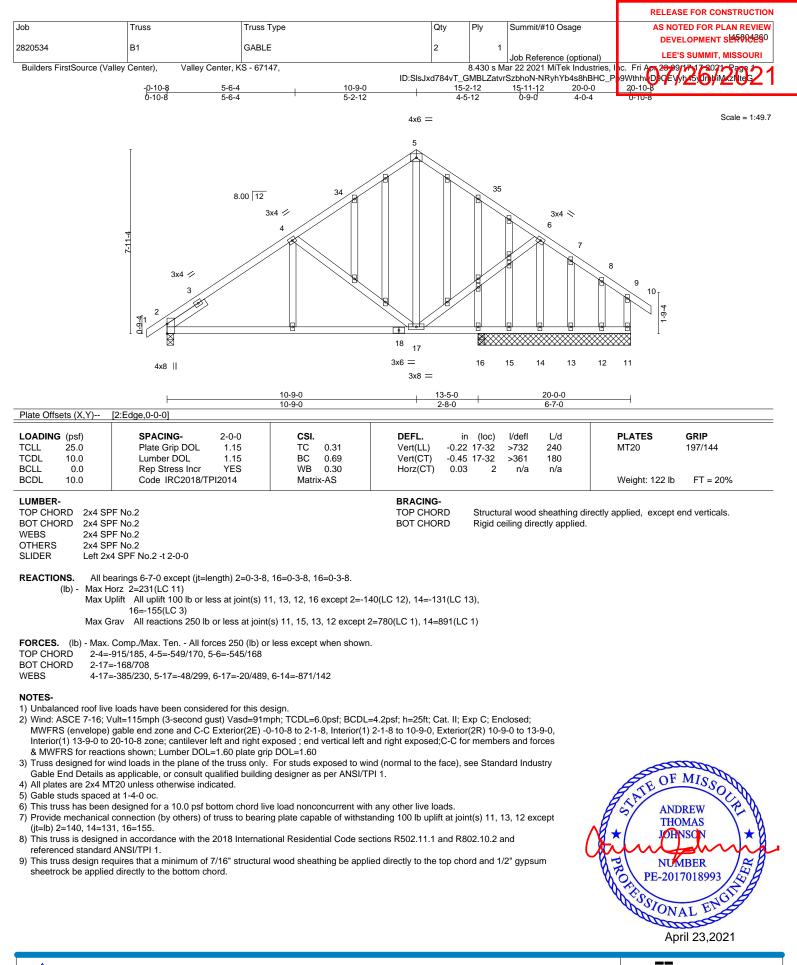
MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



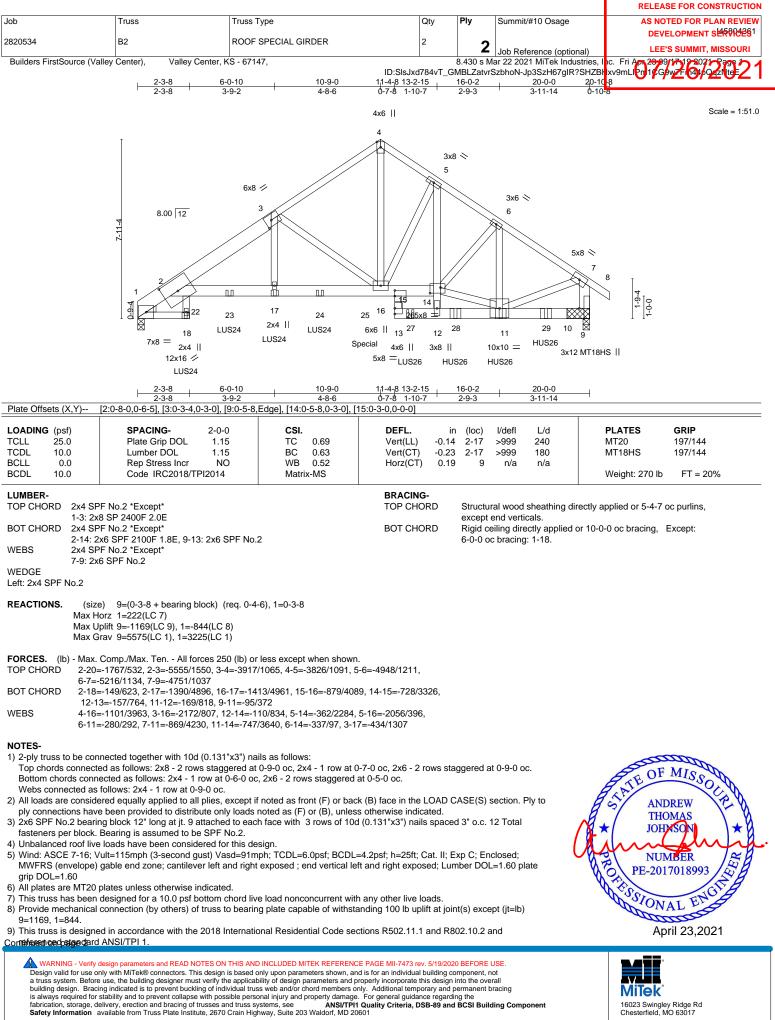
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=122, 9=239, 14=309.
- 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.







V2020 BEFORE USE. Ig component, not sign into the overall and permanent bracing parding the and BCSI Building Component 16023 Swingley Ridge Rd Chesterfield, MO 63017



16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Summit/#10 Osage	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
2820534	B2	ROOF SPECIAL GIRDER	2	2	Job Reference (optional)	LEE'S SUMMIT. MISSOURI
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147				ic. Fri Apr 2329/17-20-2021-Page 2
Buildere Finologiate (Valley						

NOTES-

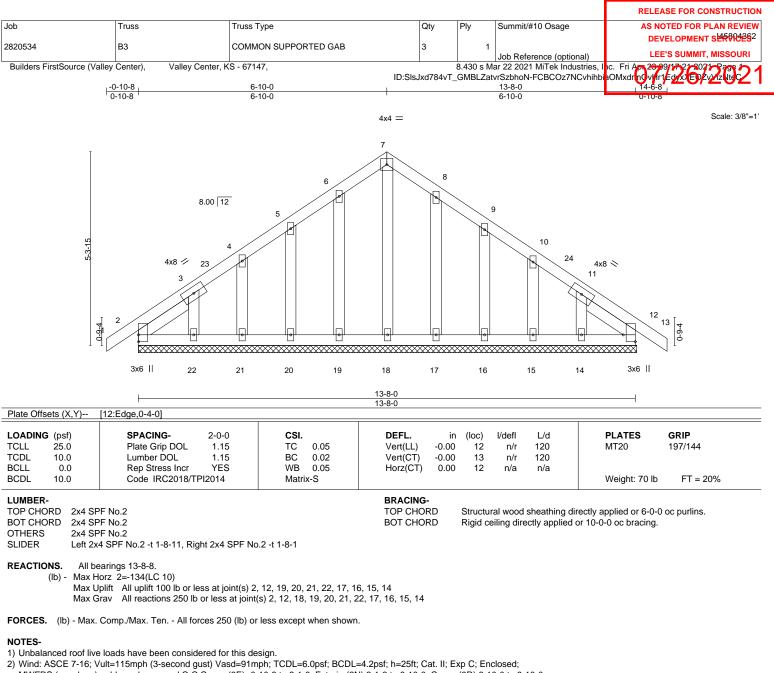
- 10) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-1-12 from the left end to 8-0-12 to connect truss(es) to back face of bottom chord.
- 11) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 12-0-12 from the left end to connect truss(es) to back face of bottom chord.
- 12) 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 14-0-12 from the left end to 18-0-12 to connect truss(es) to back face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 335 lb down and 286 lb up at 10-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-70, 2-4=-70, 4-7=-70, 7-8=-70, 18-19=-20, 2-15=-20, 9-13=-20 Concentrated Loads (lb)

Vert: 18=-311(B) 11=-1545(B) 17=-456(B) 23=-447(B) 24=-343(B) 25=-335(B) 26=-387(B) 28=-1554(B) 29=-1554(B)





- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 6-10-0, Corner(3R) 6-10-0 to 9-10-0, Exterior(2N) 9-10-0 to 14-6-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 19, 20, 21, 22, 17, 16, 15, 14.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





							RELEASE FOR CONSTRUCTION
Job	Truss	Truss T	уре	Qty	Ply	Summit/#10 Osage	AS NOTED FOR PLAN REVIEW
2820534	B4	GABLE		1	1	Job Reference (optional)	DEVELOPMENT S ^E ER®R ² ES ³ LEE'S SUMMIT, MISSOURI
Builders FirstSource (Va	alley Center),	Valley Center, KS - 6714	7,		8.430 s N	lar 22 2021 MiTek Industries.	Inc. Fri Apr 2009/17-22-2021 Page 1 ry3TsO2w3hrCyM2u(St. 17-9z. https://
		H	2-2-6 6-8-14 2-2-6 4-6-8	11-3-6 4-6-8	I_GMBLZ + 13-7- 2-4-0	<u>6 14-5-6</u>	Scale = 1:61.0
		1 4xi 3x4 3x4 3x4 16 6x6	15 $136x12 = 33$ LU				
Plate Offsets (X,Y)	[1:0-2-14,0-2-0], [{		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	11-3-6 4-6-8 [16:0-2-12,0-4-4]		14 13-7-6 3 0-0-8	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip I Lumber DC Rep Stress Code IRC2	DOL 1.15 DL 1.15	CSI. TC 0.45 BC 0.76 WB 0.58 Matrix-MS	Vert(LL) -0.06	i (loc) 11-12 11-12 11-12 16	l/defi L/d >999 240 >999 180 n/a n/a	PLATES GRIP MT20 197/144 Weight: 135 lb FT = 20%
2-13,5- WEBS 2x4 SF OTHERS 2x4 SF WEDGE Right: 2x4 SPF No.2 REACTIONS. (size	PF No.2 *Except* -9: 2x4 SPF No.2 PF No.2 PF No.2	earing block) (req. 0-3	8-10), 6=(0-3-8 + bearing	BRACING- TOP CHORD BOT CHORD WEBS JOINTS block) (req. 0-3-9)	except Rigid ce 6-0-0 o 1 Row a	ral wood sheathing directly a end verticals. eiling directly applied or 8-9- c bracing: 13-14, 2-14 at midpt 1-16, 3 e at Jt(s): 12	12 oc bracing. Except:
Max U Max C FORCES. (lb) - Max. TOP CHORD 1.16: BOT CHORD 2-14: 9-10: WEBS 14-10 NOTES- 1) 2x6 SPF No.2 bearing fasteners. Bearing is 2) 2x6 SPF No.2 bearing fasteners. Bearing is 3) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 4) Truss designed for V Gable End Details a 5) All plates are 2x4 M 6) Gable studs spaced 7) This truss has been 8) Provide mechanical 16=774, 6=505.	Iplift 16=-774(LC 9 Frav 16=2325(LC 1 Comp./Max. Ten. =-1081/421, 1-2=-3 =-287/127, 12-14= =-703/2440, 6-9=-6 6=-2436/811, 1-14: mg block 12" long a s assumed to be S ng block 12" long a s assumed to be S (ult=115mph (3-see gable end zone; c wind loads in the pl is applicable, or co T20 unless otherw at 1-4-0 oc. designed for a 10. connection (by other ed in accordance w	 f), 6=2285(LC 1) All forces 250 (lb) or 390/202, 2-3=-464/230 687/196, 5-11=-60/39 674/2324 at jt. 16 attached to from PF No.2. at jt. 16 attached to from PF No.2. cond gust) Vasd=91m antilever left and right lane of the truss only. insult qualified building ise indicated. 0 psf bottom chord live ners) of truss to bearing 	less except when shown , 3-5=-2189/551, 5-6=-26 9, 13-16=-624/2160, 10- 99/629, 3-12=-488/1835, nt face with 3 rows of 10 face with 3 rows of 10d oh; TCDL=6.0psf; BCDL= exposed ; end vertical le For studs exposed to win designer as per ANSI/TI e load nonconcurrent with g plate capable of withstan nal Residential Code sec	369/639 13=-703/2440, 5-12=-862/237 d (0.131"x3") nails space (0.131"x3") nails space (1.131"x3") nail	d 3" o.c. 1 ixp C; En nber DOL see Stanc nt(s) exce	12 Total closed; _=1.60 plate tard Industry ept (jt=lb)	ANDREW THOMAS JOHNSON NUMBER PE-2017018993
 10) Use Simpson Stronconnect truss(es) t 11) Use Simpson Stron5-10-2 from the lef CahtFilladlogibagtes with trust tru	ng-Tie LUS24 (4-S o back face of bott ng-Tie LUS24 (4-1 t end to 11-10-2 to here hanger is in c	tom chord. 0d Girder, 2-10d Truss connect truss(es) to b ontact with lumber.	212 Truss, Single Ply Gird s, Single Ply Girder) or ec ack face of bottom chord	quivalent spaced at 2-0-0 I.) oc max.	starting at	April 23,2021
Design valid for use o a truss system. Before building design. Brac	nly with MiTek® connect e use, the building designing indicated is to prevent stability and to prevent	ctors. This design is based o gner must verify the applicab ant buckling of individual trus	INCLUDED MITEK REFERENC nly upon parameters shown, an ility of design parameters and p s web and/or chord members of nal injury and property damage	d is for an individual building co roperly incorporate this design nly. Additional temporary and p	omponent, n into the ove permanent b ng the	not Irall	

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Summit/#10 Osage	AS NOTED FOR PLAN REVIEW
2820534	D4	GABLE	1	1		DEVELOPMENT SERVICES
2020534	B4	GABLE		· ·	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (V	/alley Center), V	alley Center, KS - 67147,		8.430 s M	ar 22 2021 MiTek Industries, I	ic. Fri Apr 23-99/17-22-2021 Page 2
NOTES-			ID:SlsJxd784v1	r_GMBLZa	atvrSzbhoN-BbJype9dkXxQwv	syWn_5vET8QeY75i8017076zVteA
NUTES-						

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 537 lb down and 217 lb up at 2-0-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

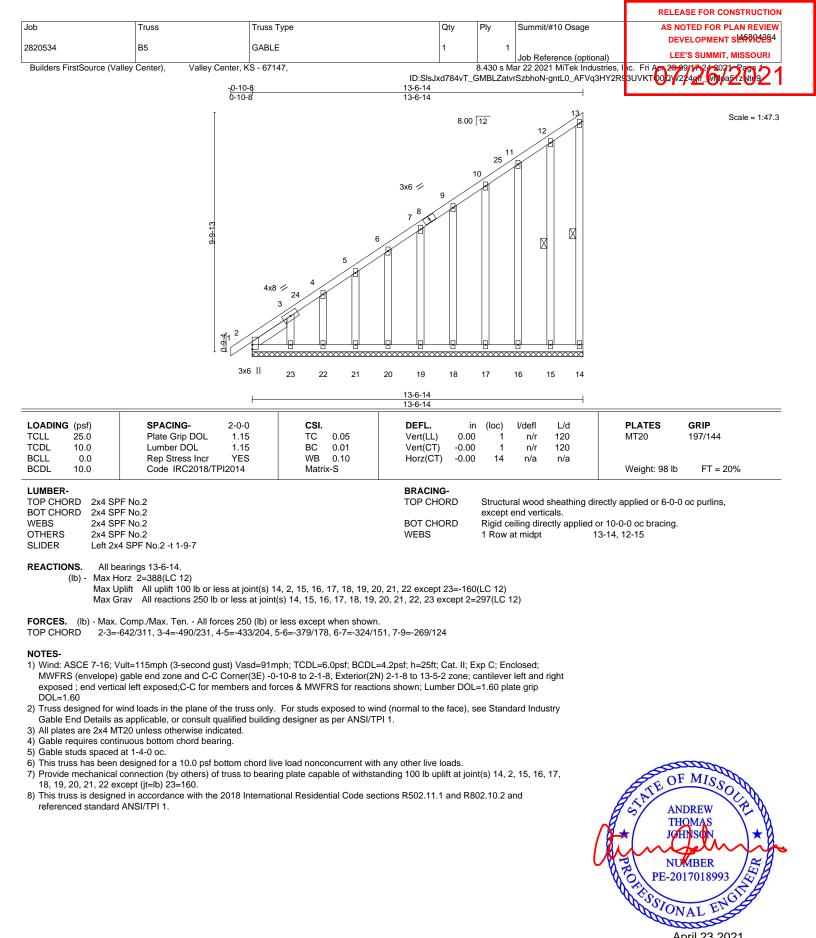
LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-7=-70, 11-14=-20, 13-16=-20, 9-13=-20, 9-26=-20

Concentrated Loads (lb)

Vert: 14=-537(B) 29=-569(B) 30=-564(B) 31=-532(B) 32=-490(B) 37=-460(B)

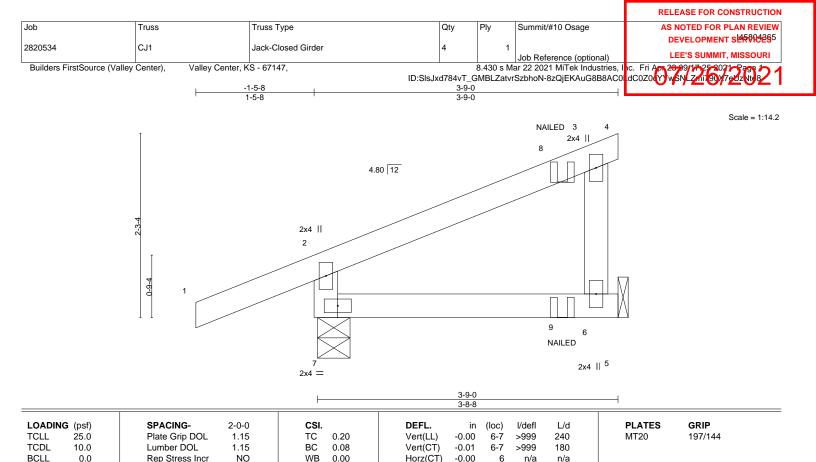








April 23,2021



BCDL

TOP CHORD BOT CHORD WEBS 2x4 SPF No.2

10.0

2x4 SPF No 2 2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 13 lb

FT = 20%

REACTIONS. 7=0-4-13, 6=Mechanical (size) Max Horz 7=95(LC 5) Max Uplift 7=-86(LC 4), 6=-65(LC 5) Max Grav 7=291(LC 1), 6=146(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-7=-256/99

Code IRC2018/TPI2014

NOTES-

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

Matrix-MR

- 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) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.
- 7) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 3-4=-20, 5-7=-20 Concentrated Loads (lb)

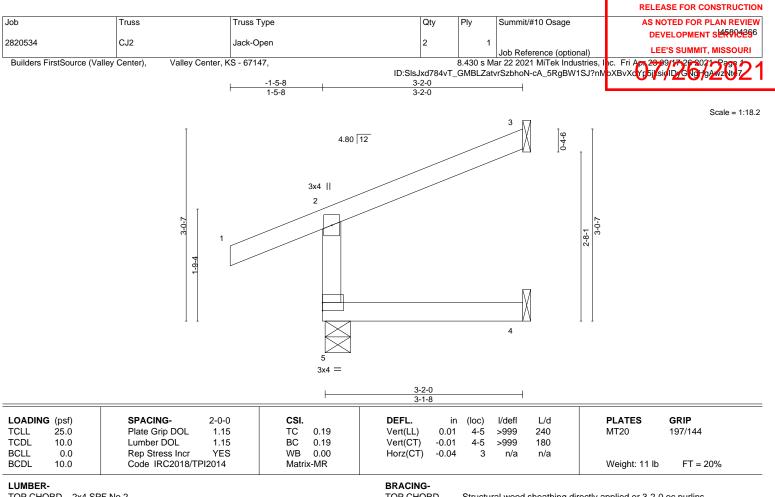
Vert: 8=-1(B) 9=-13(B)





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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

TOP CHORD

Structural wood sheathing directly applied or 3-2-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-13, 3=Mechanical, 4=Mechanical Max Horz 5=79(LC 9) Max Uplift 5=-55(LC 8), 3=-54(LC 12), 4=-6(LC 9)

Max Grav 5=276(LC 1), 3=77(LC 1), 4=55(LC 3)

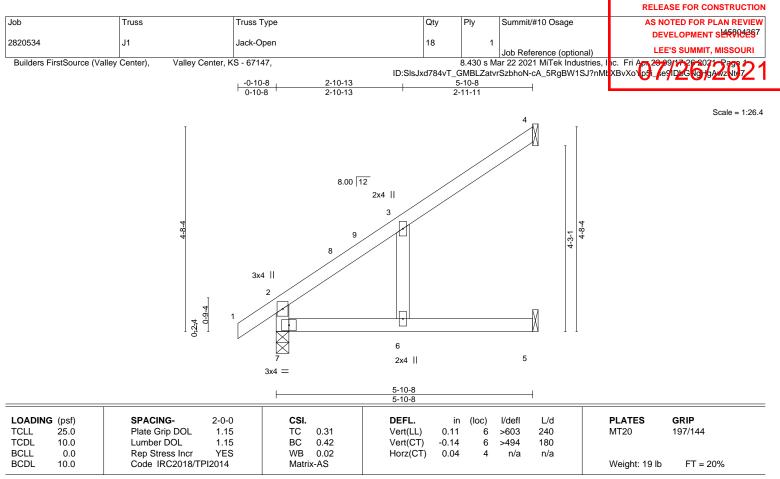
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

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 Corner(3) -1-5-8 to 2-9-7, Exterior(2R) 2-9-7 to 3-1-4 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) 5, 3, 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.







LUMBER-

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied, except end verticals. Rigid ceiling directly applied.

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 7=0-3-8 Max Horz 7=170(LC 12) Max Uplift 4=-91(LC 12), 5=-31(LC 12), 7=-17(LC 12) Max Grav 4=158(LC 19), 5=105(LC 19), 7=333(LC 1)

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

NOTES-

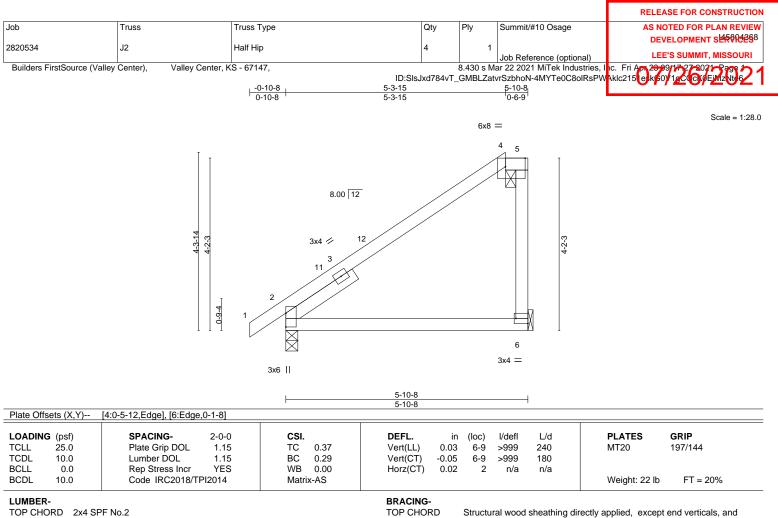
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 7.
- 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.



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

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

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 4-5. BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 6=Mechanical, 2=0-3-8 Max Horz 2=159(LC 11) Max Uplift 6=-78(LC 12), 2=-52(LC 12) Max Grav 6=262(LC 19), 2=324(LC 1)

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

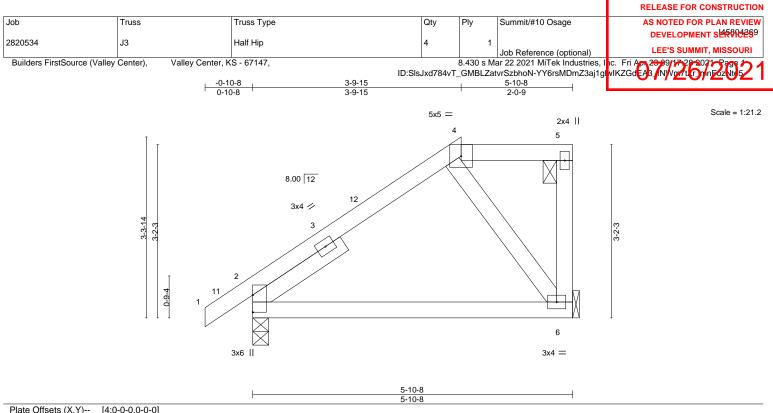
NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-3-15, Exterior(2E) 5-3-15 to 5-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) 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) 6, 2.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.







ADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
LL 25.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL)	-0.03	6-9	>999	240	MT20	197/144
DL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT)	-0.07	6-9	>931	180		
LL 0.0	Rep Stress Incr YES	WB 0.04	Horz(CT)	0.01	2	n/a	n/a		
DL 10.0	Code IRC2018/TPI2014	Matrix-AS						Weight: 25 lb	FT = 20%
MBER-			BRACING-						
P CHORD 2x4 SP	TOP CHORD Structural wood sheathing directly applied, except end						t end verticals, and		

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins: 4-5. 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied. Left 2x4 SPF No.2 -t 2-0-0

REACTIONS. (size) 2=0-3-8, 6=Mechanical Max Horz 2=119(LC 11) Max Uplift 2=-59(LC 12), 6=-64(LC 9)

Max Grav 2=324(LC 1), 6=253(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-350/72

NOTES-

WEBS

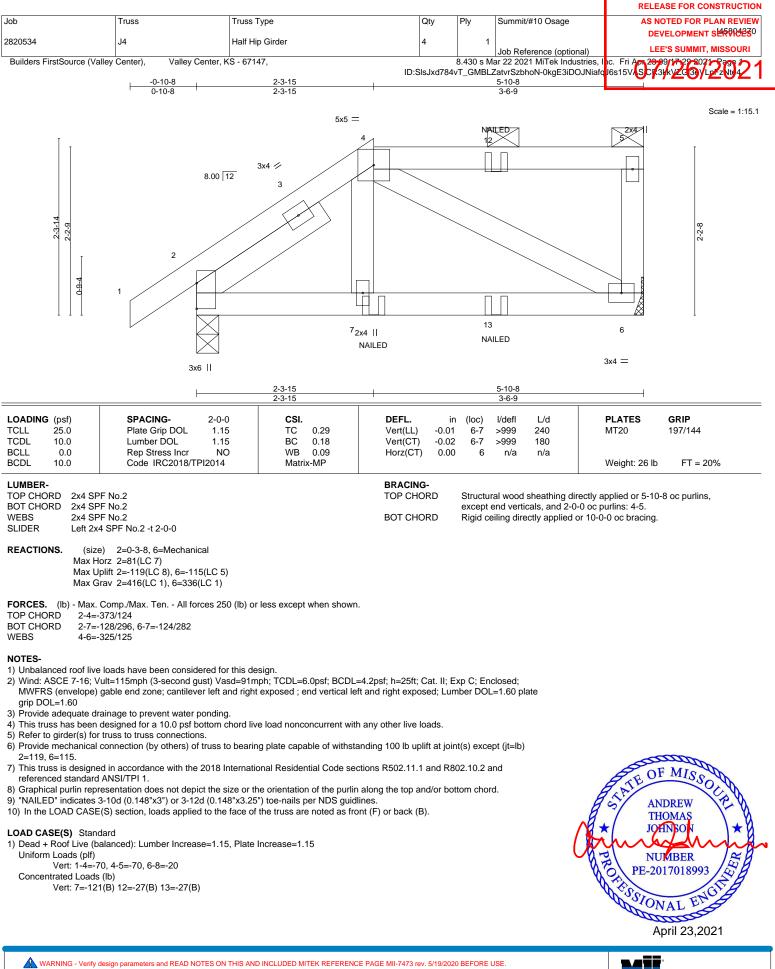
SLIDER

- 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 3-9-15, Exterior(2E) 3-9-15 to 5-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 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.



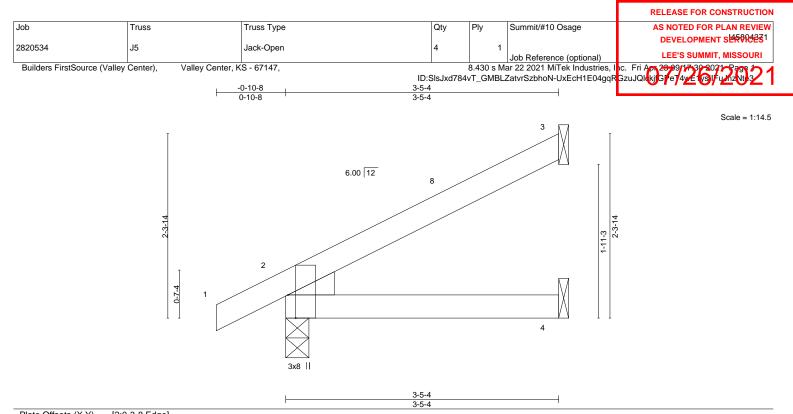


¹⁾ Unbalanced roof live loads have been considered for this design.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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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 0.14	Vert(LL) -0.01 4-7 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) -0.01 4-7 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 2 n/a n/a	
3CDL 10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 10 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=84(LC 12) Max Uplift 3=-52(LC 12), 2=-34(LC 12), 4=-3(LC 12) Max Grav 3=97(LC 1), 2=221(LC 1), 4=61(LC 3)

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 2-1-8, Interior(1) 2-1-8 to 3-4-8 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
- 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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



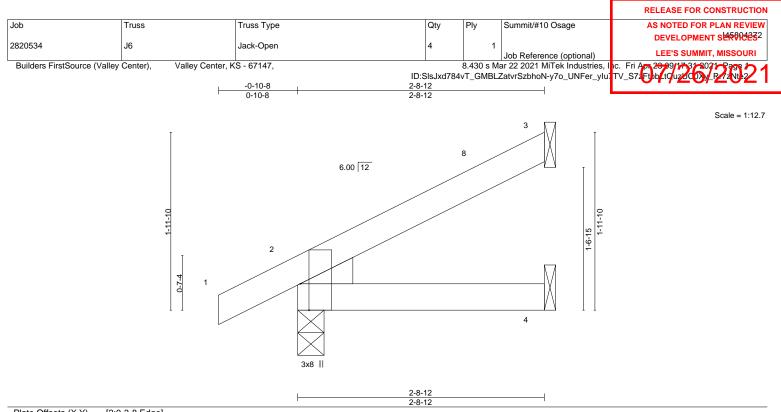
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



TOP CHORD BOT CHORD

BRACING-

Structural wood sheathing directly applied or 3-5-4 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.



	10.0	Code IRC2018/T	PI2014	Matri	x-MP						Weight: 9 lb	FT = 20%
											144 . 14 . 0.11	
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
FCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	4-7	>999	180		
TCLL :	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	7	>999	240	MT20	197/144
OADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP

TOP CHORD

BOT CHORD

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=70(LC 12) Max Uplift 3=-40(LC 12), 2=-30(LC 12), 4=-4(LC 12) Max Grav 3=74(LC 1), 2=191(LC 1), 4=47(LC 3)

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

NOTES-

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

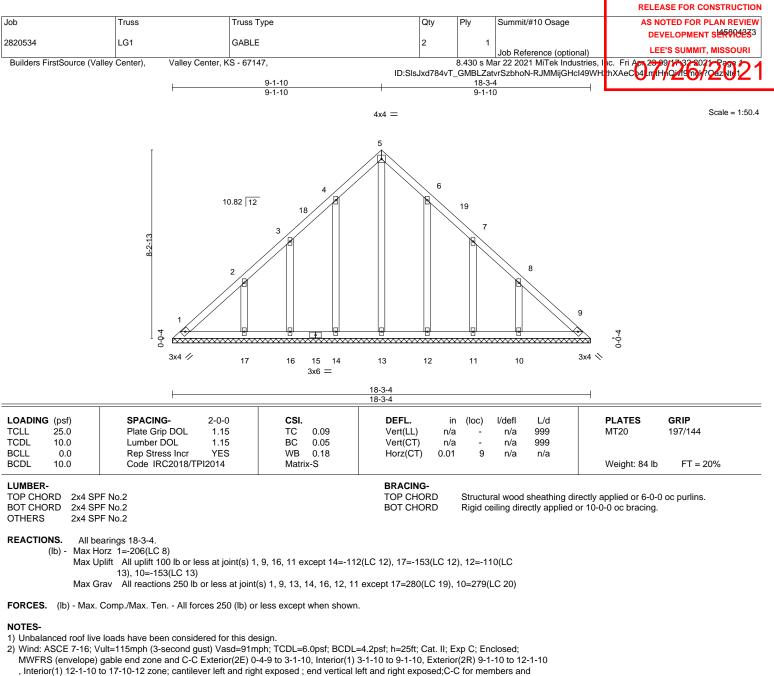
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 2-8-12 oc purlins.

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

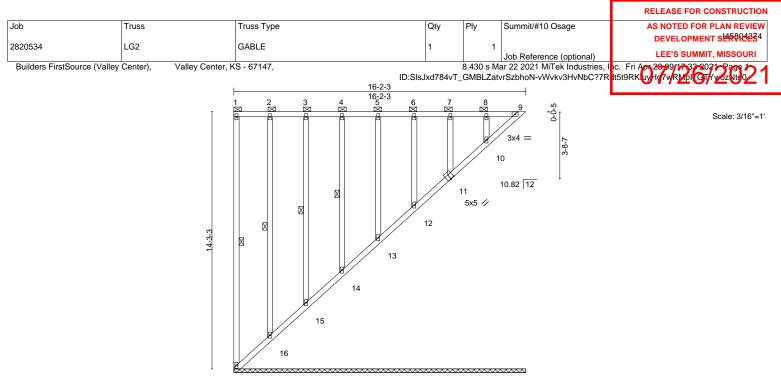




- forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 16, 11 except (jt=lb) 14=112, 17=153, 12=110, 10=153.
- 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.









			10-2-3			
Plate Offsets (X,Y)	[11:0-2-8,0-0-4]					
OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	n (loc) l/defl L/d	PLATES	GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) n/	a - n/a 999	MT20	197/144
CDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) n/	a - n/a 999		
CLL 0.0	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.0	0 10 n/a n/a		
CDL 10.0	Code IRC2018/TPI2014	Matrix-S			Weight: 113 lb	FT = 20%
UMBER-			BRACING-		i.	
OP CHORD 2x4 SP	PF No.2		TOP CHORD	2-0-0 oc purlins (6-0-0 max.	.): 1-9, except end vertica	ls.
OT CHORD 2x4 SP	PF No.2		BOT CHORD	Rigid ceiling directly applied	or 6-0-0 oc bracing.	
VEBS 2x4 SP	PF No.2		WEBS	1 Row at midpt	1-17, 2-16, 3-15, 4-14	

REACTIONS. All bearings 16-2-3.

2x4 SPF No.2

- Max Uplift All uplift 100 lb or less at joint(s) 17, 9, 11, 16, 15, 14, 13, 12, 10 (lb) -
- Max Grav All reactions 250 lb or less at joint(s) 17, 9, 11, 16, 15, 14, 13, 12, 10
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.

NOTES-

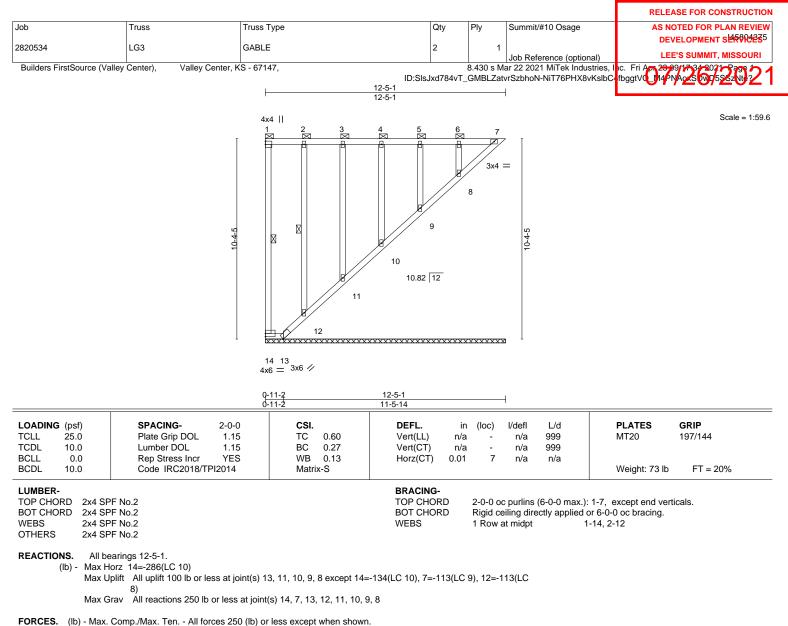
OTHERS

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

- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 17, 9, 11, 16, 15, 14, 13, 12, 10 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) 17, 9, 11, 16, 15, 14. 13. 12. 10.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9, 11, 16, 15, 14, 13, 12, 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







BOT CHORD

11-12=-259/246, 10-11=-257/243, 9-10=-258/243, 8-9=-258/244, 7-8=-256/238

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right

exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) Provide adequate drainage to prevent water ponding.

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

4) Gable requires continuous bottom chord bearing.

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) 13, 11, 10, 9, 8 except (it=lb) 14=134, 7=113, 12=113,

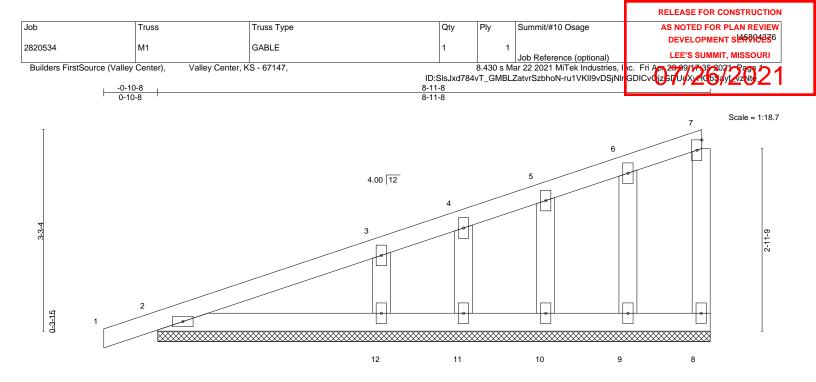
7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 12, 11, 10, 9, 8.

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

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



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



				1		1						
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	0.15	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-P						Weight: 33 lb	FT = 20%
LUMBER-						BRACING-						
TOP CHOR						TOP CHOP					directly applied or 6-0-0	oc purlins,
BOT CHOR									end verti			
WEBS	2x4 SP	F No.2				BOT CHOP	RD	Rigid c	eiling dire	ectly applie	d or 10-0-0 oc bracing.	
OTHERS	2x4 SP	F No.2										

REACTIONS. All bearings 8-11-8.

(lb) - Max Horz 2=137(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 8, 2, 9, 10, 11, 12

Max Grav All reactions 250 lb or less at joint(s) 8, 2, 9, 10, 11 except 12=328(LC 1)

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

TOP CHORD 2-3=-257/126

WEBS 3-12=-249/294

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) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 8-9-5 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

4) Gable requires continuous bottom chord bearing.

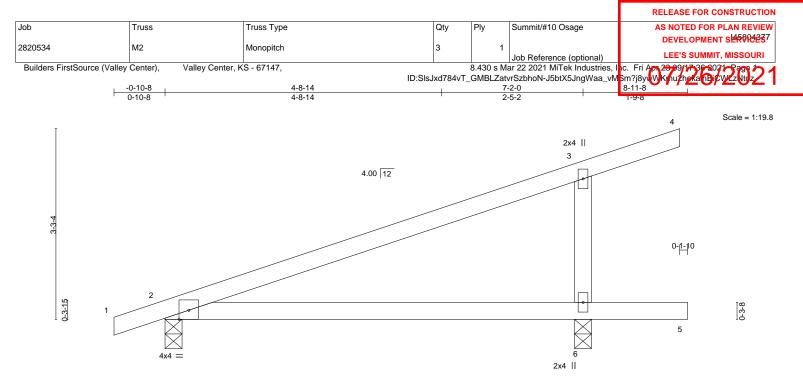
5) Gable studs spaced at 1-4-0 oc.

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

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2, 9, 10, 11, 12.
 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.







		7-2-0 7-2-0	<u>7-3-12 8-11-8</u> 0-1-12 1-7-12
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. DEFL. in TC 0.61 Vert(LL) -0.12 BC 0.48 Vert(CT) -0.22 WB 0.06 Horz(CT) 0.00 Matrix-AS Kerting Kerting Kerting	4 6-9 >360 180

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=133(LC 8) Max Uplift 2=-86(LC 8), 6=-121(LC 12) Max Grav 2=370(LC 1), 6=488(LC 1)

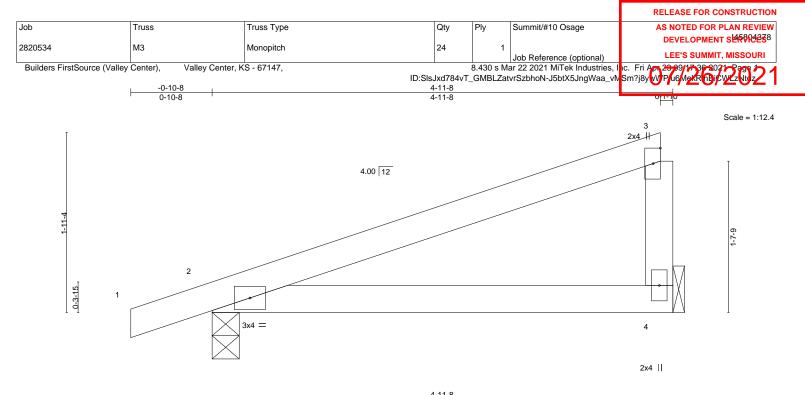
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-6=-356/306

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 2-1-8, Interior(1) 2-1-8 to 8-9-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) 2 except (jt=lb) 6=121.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) 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.







H		4-11-8			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCLL 0.0 BCDL 10.0 Code IRC2018/TI	2-0-0 CSI. 1.15 TC 0. 1.15 BC 0. YES WB 0. Pl2014 Matrix-A	24 Vert(CT) -0.06 00 Horz(CT) 0.00	(loc) l/defl L/d 4-7 >999 240 4-7 >988 180 2 n/a n/a	PLATES GRIP MT20 197/144 Weight: 14 lb FT = 20	0%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2

REACTIONS. 4=Mechanical, 2=0-3-8 (size) Max Horz 2=79(LC 11) Max Uplift 4=-53(LC 12), 2=-85(LC 8) Max Grav 4=211(LC 1), 2=283(LC 1)

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

NOTES-

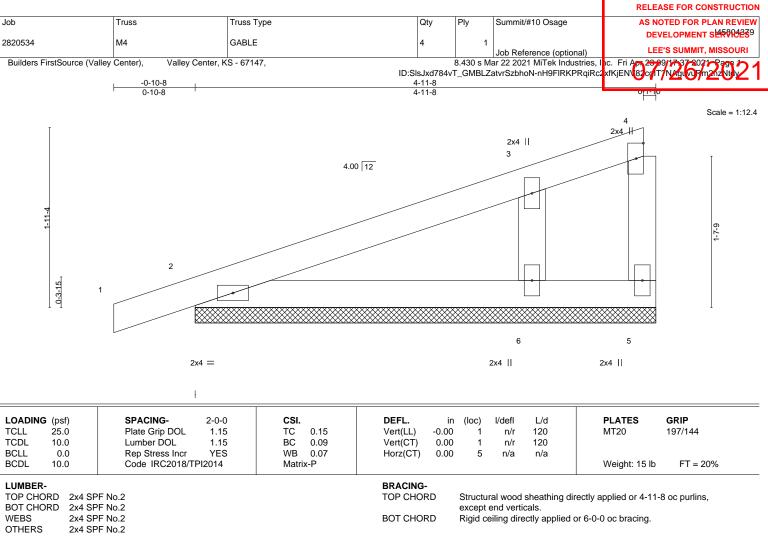
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate 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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.





REACTIONS. (size) 5=4-11-8, 2=4-11-8, 6=4-11-8 Max Horz 2=78(LC 9)

Max Uplift 5=-37(LC 1), 2=-64(LC 8), 6=-89(LC 12) Max Grav 5=15(LC 12), 2=203(LC 1), 6=326(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-6=-249/372

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) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 4-9-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

3) Gable requires continuous bottom chord bearing.

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

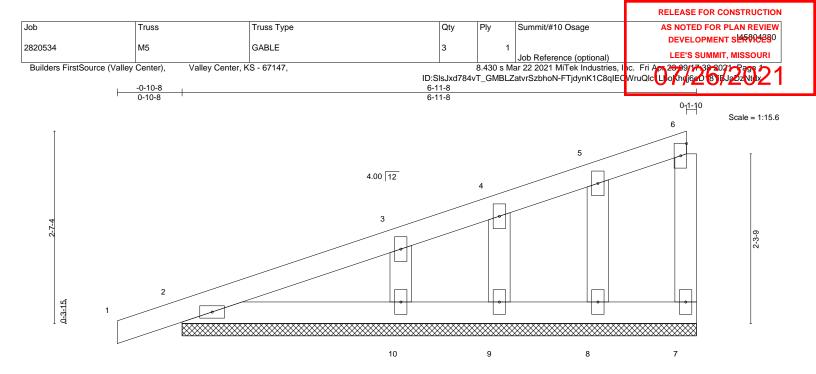
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.

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.







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	0.09	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-P						Weight: 24 lb	FT = 20%
LUMBER-						BRACING-						
TOP CHOR BOT CHOR		PF No.2 PF No.2				TOP CHOP			iral wood end vert		directly applied or 6-0-0	oc purlins,
WEBS OTHERS		PF No.2 PF No.2				BOT CHOP	RD	Rigid c	eiling dir	ectly applied	d or 10-0-0 oc bracing.	

REACTIONS. All bearings 6-11-8.

(lb) - Max Horz 2=108(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 8, 9, 10

Max Grav All reactions 250 lb or less at joint(s) 7, 2, 8, 9 except 10=252(LC 1)

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

WEBS 3-10=-191/258

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) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 6-9-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

3) 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.

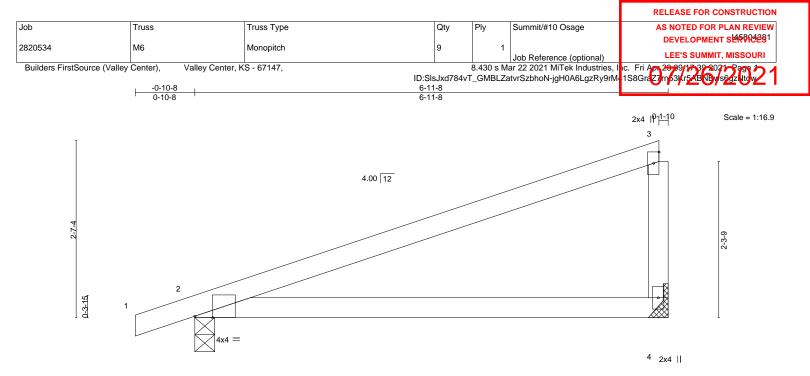
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 8, 9, 10.

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.







		├ ──				<u>6-11-8</u> 6-11-8						
Plate Offs	ets (X,Y)	[2:0-3-2,Edge]		-		1					1	
	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.12	4- 7	>663	240	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.23	4-7	>361	180		
CLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-AS						Weight: 20 lb	FT = 20%
						-						
LUMBER-						BRACING-						

TOP CHORD

BOT CHORD

MBER-

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

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

Max Horz 2=108(LC 11) Max Uplift 4=-76(LC 12), 2=-102(LC 8) Max Grav 4=303(LC 1), 2=372(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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) 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 except (jt=lb) 2=102.

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

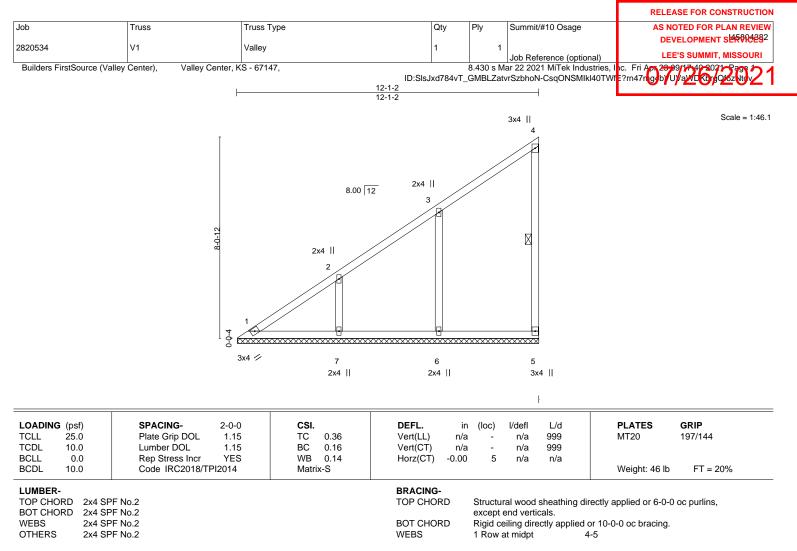
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.





REACTIONS. All bearings 12-0-12.

(lb) - Max Horz 1=304(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 6=-164(LC 12), 7=-161(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=396(LC 19), 7=392(LC 19)

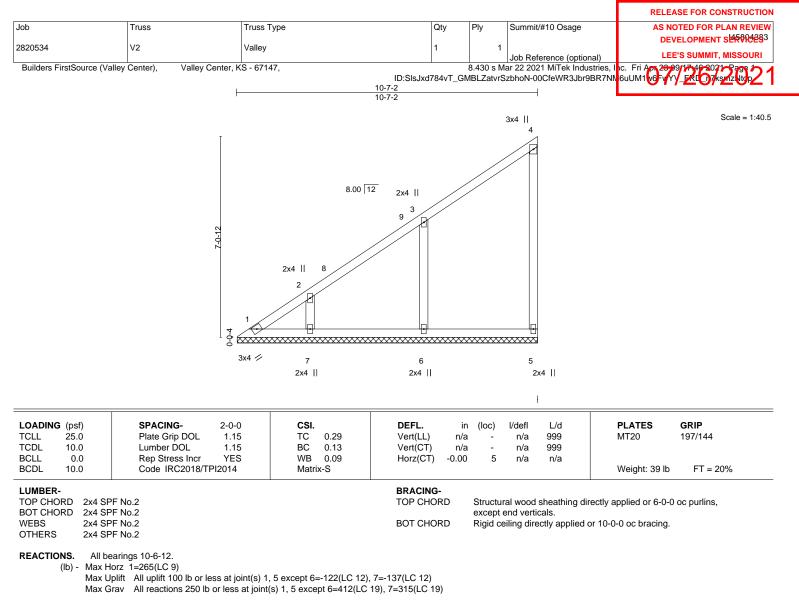
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 1-2=-448/348, 2-3=-317/265
- WEBS 3-6=-321/232, 2-7=-298/207

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) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 11-11-6 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) 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, 5 except (jt=lb) 6=164, 7=161.
- 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.







- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- TOP CHORD 1-2=-404/272, 2-3=-319/228
- WEBS 3-6=-330/240

NOTES-

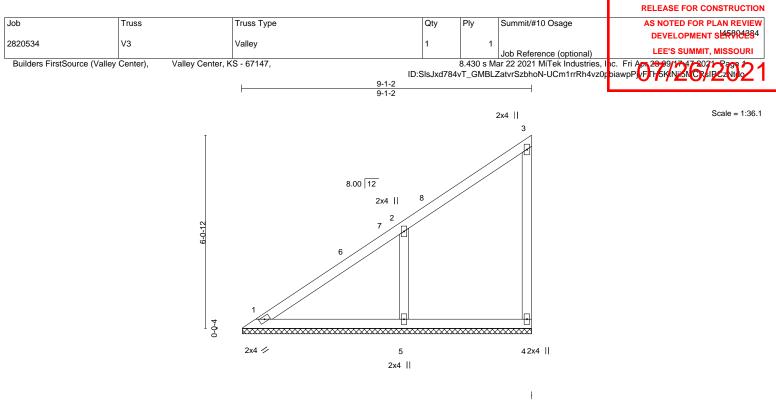
 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 10-5-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for 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, 5 except (jt=lb) 6=122, 7=137.
- 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	Lumber DOL 1.	15 TC 0.28 15 BC 0.15 IS WB 0.07	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 32 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SI	PF No.2	BRACING- TOP CHOF		Structu	iral wood	sheathing di	rectly applied or 6-0-0) oc purlins,	

BOT CHORD

except end verticals.

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

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 OTHERS
 2x4 SPF No.2

REACTIONS. (size) 1=9-0-12, 4=9-0-12, 5=9-0-12 Max Horz 1=225(LC 9)

Max Uplift 1=-6(LC 8), 4=-50(LC 9), 5=-179(LC 12)

Max Grav 1=192(LC 20), 4=143(LC 19), 5=489(LC 19)

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

TOP CHORD 1-2=-333/236

WEBS 2-5=-377/276

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) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 8-11-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

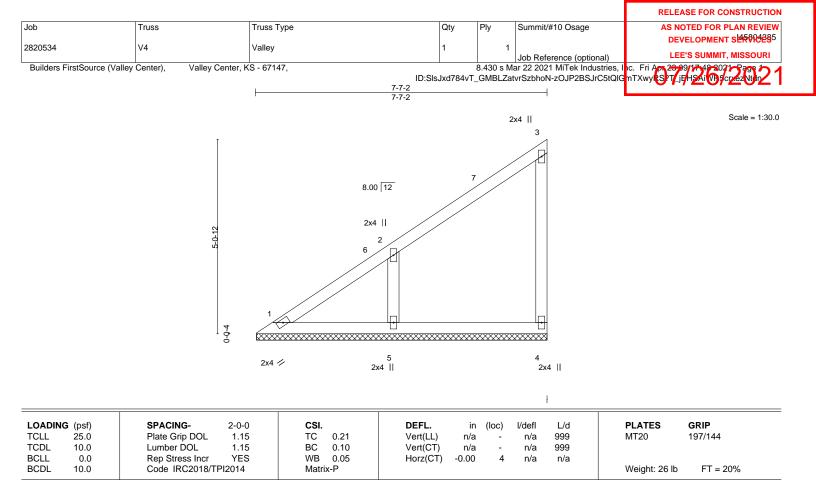
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=179.

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.







BRACING-

TOP CHORD

BOT CHORD

LU	JMBER-

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

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

REACTIONS. (size) 1=7-6-12, 4=7-6-12, 5=7-6-12 Max Horz 1=185(LC 9)

Max Uplift 1=-16(LC 8), 4=-46(LC 9), 5=-162(LC 12) Max Grav 1=128(LC 20), 4=154(LC 19), 5=410(LC 19)

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

TOP CHORD 1-2=-313/216

WEBS 2-5=-322/259

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) 0-5-12 to 3-7-2, Interior(1) 3-7-2 to 7-5-6 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 = 162

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.

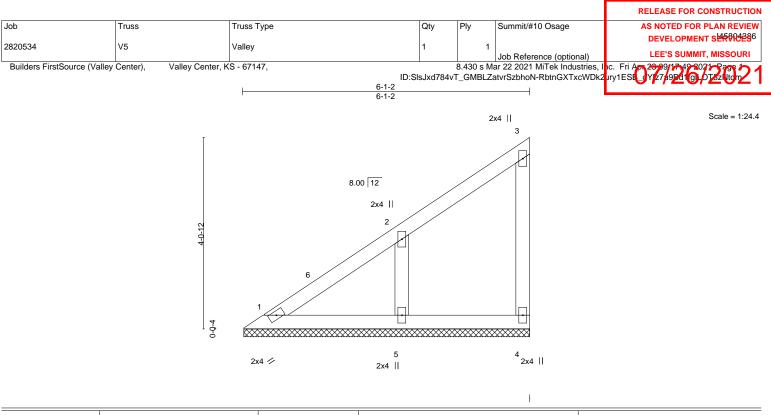


Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.





LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.13 BC 0.06 WB 0.04 Matrix-P	DEFL. Vert(LL) n Vert(CT) n Horz(CT) 0.0	′a -	l/defl n/a n/a n/a	L/d 999 999 n/a	-	GRIP 197/144 FT = 20%
BOT CHORD 2x4	SPF No.2 SPF No.2 SPF No.2		BRACING- TOP CHORD BOT CHORD	except	end verti	cals.	irectly applied or 6-0-0 c or 10-0-0 oc bracing.	oc purlins,

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

REACTIONS. (size) 1=6-0-12, 4=6-0-12, 5=6-0-12 Max Horz 1=145(LC 9)

Max Uplift 1=-6(LC 8), 4=-32(LC 9), 5=-131(LC 12)

Max Grav 1=120(LC 20), 4=95(LC 19), 5=320(LC 19)

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

1-2=-255/175 TOP CHORD

WEBS 2-5=-251/230

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) 0-5-12 to 3-4-10, Interior(1) 3-4-10 to 5-11-6 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.

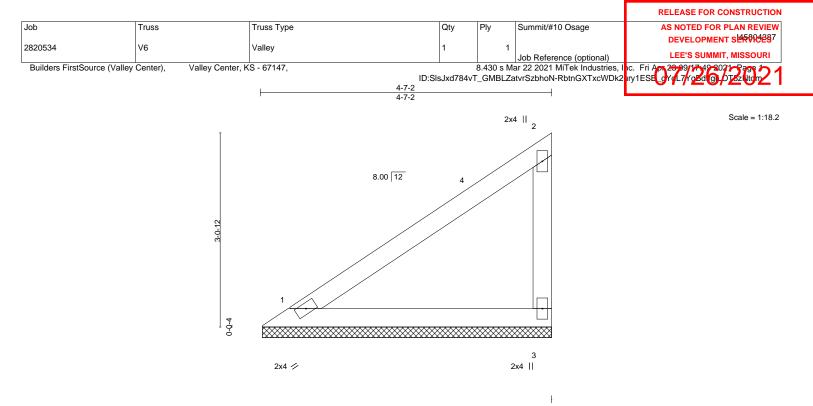
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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=131

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- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.30 BC 0.16 WB 0.00 Matrix-P	Vert(CT) r	in (loc) n/a - n/a - 00 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 14 lb	GRIP 197/144 FT = 20%
LUMBER-	1		BRACING-					

TOP CHORD

BOT CHORD

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 1=4-6-12, 3=4-6-12 Max Horz 1=105(LC 9) Max Uplift 1=-22(LC 12), 3=-59(LC 12)

Max Grav 1=179(LC 1), 3=192(LC 19)

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) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-5-6 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.

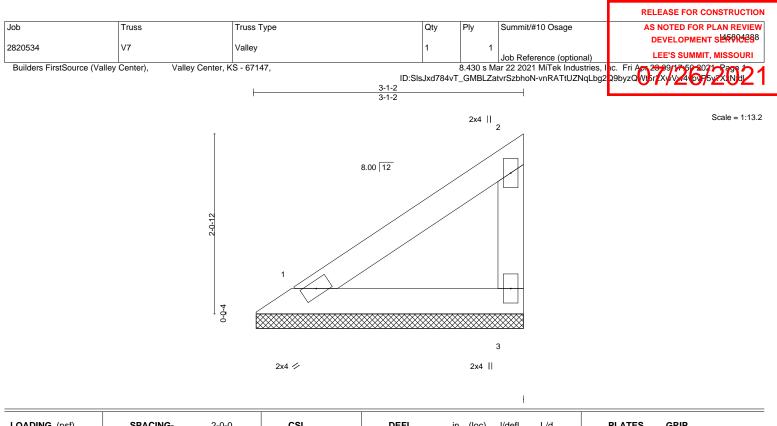


Structural wood sheathing directly applied or 4-7-2 oc purlins,

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

except end verticals.





LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.11 BC 0.06 WB 0.00 Matrix-P	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 3 n/a n/a	PLATES GRIP MT20 197/144 Weight: 9 lb FT = 20%
LUMBER-			BRACING-	

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=3-0-12, 3=3-0-12 Max Horz 1=66(LC 9)

Max Uplift 1=-14(LC 12), 3=-37(LC 12) Max Grav 1=111(LC 1), 3=119(LC 19)

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

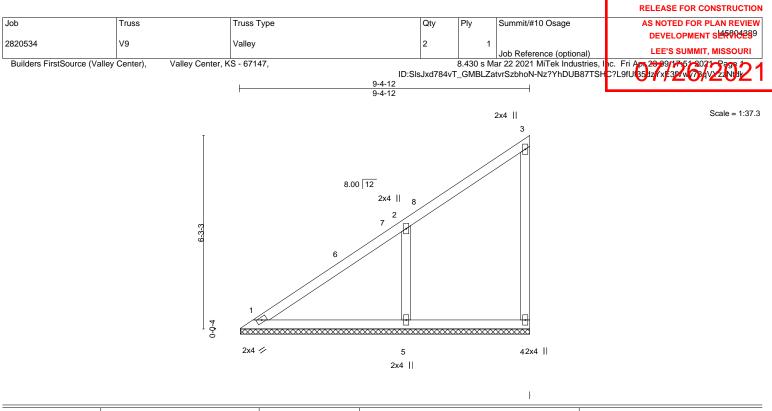
ANDREW THOMAS JOHTSON NUMBER PE-2017018993 April 23,2021

Structural wood sheathing directly applied or 3-1-2 oc purlins,

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

except end verticals.





LL 25.0 Plate Grip DOL 1.15 DL 10.0 Lumber DOL 1.15 CLL 0.0 Rep Stress Incr YES DL 10.0 Code IRC2018/TPI2014	TC 0.31 BC 0.16 WB 0.08 Matrix-S	DEFL. i Vert(LL) n/: Vert(CT) n/: Horz(CT) -0.00	a -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 33 lb	GRIP 197/144 FT = 20%
JMBER- DP CHORD 2x4 SPF No.2 DT CHORD 2x4 SPF No.2 EBS 2x4 SPF No.2	Wallix-S	BRACING- TOP CHORD BOT CHORD	except	end vertic	als.	rectly applied or 6-0-0	

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

REACTIONS. (size) 1=9-4-6, 4=9-4-6, 5=9-4-6

Max Horz 1=233(LC 9) Max Uplift 1=-4(LC 8), 4=-50(LC 9), 5=-183(LC 12)

Max Grav 1=203(LC 20), 4=138(LC 19), 5=511(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-339/242

TOP CHORD

WEBS 2-5=-393/281

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) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 9-3-0 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

2) Gable requires continuous bottom chord bearing.

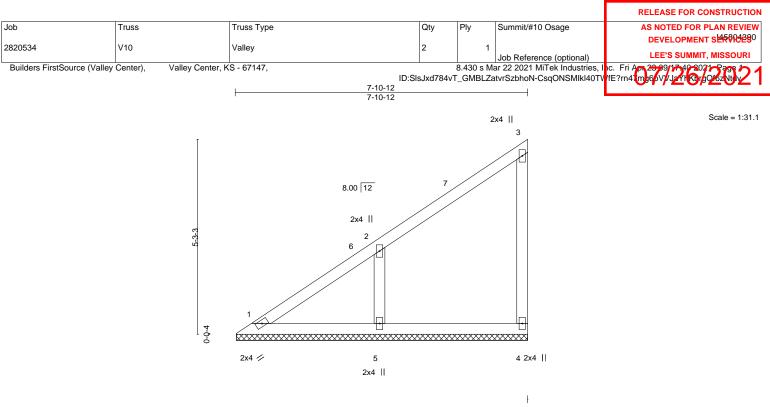
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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 = 183

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- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.22 BC 0.11 WB 0.05 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (n/a n/a -0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 27 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SI	PF No.2		BRACING- TOP CHOR	D S	Structur	al wood	sheathing di	rectly applied or 6-0-0) oc purlins,

BOT CHORD

except end verticals.

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

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

REACTIONS. (size) 1=7-10-6, 4=7-10-6, 5=7-10-6 Max Horz 1=193(LC 9)

Max Uplift 1=-14(LC 8), 4=-46(LC 9), 5=-165(LC 12)

Max Grav 1=142(LC 20), 4=152(LC 19), 5=425(LC 19)

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

TOP CHORD 1-2=-318/221

WEBS 2-5=-334/262

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) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 7-9-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

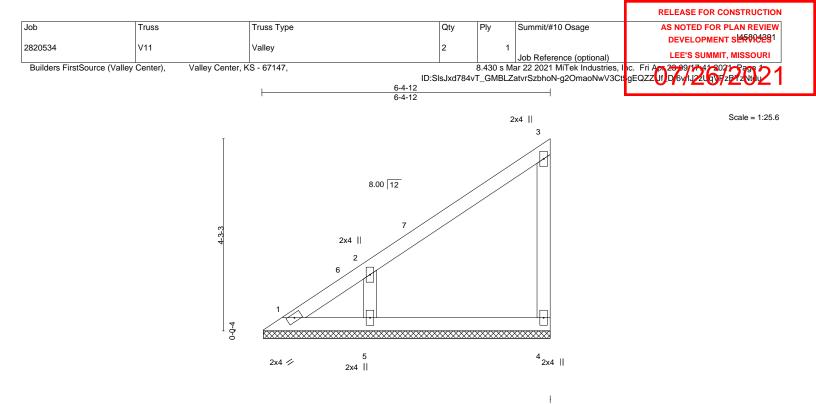
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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 = 165

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 0.18 BC 0.10 WB 0.05 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 21 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SF	PF No.2		BRACING- TOP CHOR	D S	Structu	ral wood	sheathing di	rectly applied or 6-0-0) oc purlins,

BOT CHORD

except end verticals.

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

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

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

REACTIONS. (size) 1=6-4-6, 4=6-4-6, 5=6-4-6

Max Horz 1=153(LC 9) Max Uplift 1=-36(LC 10), 4=-42(LC 9), 5=-153(LC 12)

Max Grav 1=78(LC 9), 4=156(LC 19), 5=371(LC 19)

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

TOP CHORD 1-2=-300/200

WEBS 2-5=-291/259

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) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 6-3-0 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

2) Gable requires continuous bottom chord bearing.

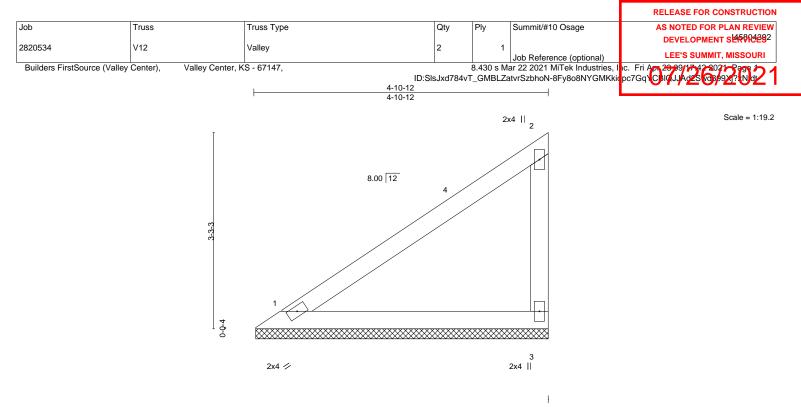
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=153.

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)	SPACING- 2-0-0	CSI.	DEFL.	in (lo) l/defl	L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.35	Vert(LL)	n/a	- n/a	999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(CT)	n/a	- n/a	999	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	3 n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 15 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2

REACTIONS. 1=4-10-6, 3=4-10-6 (size) Max Horz 1=113(LC 9) Max Uplift 1=-24(LC 12), 3=-63(LC 12)

Max Grav 1=192(LC 1), 3=206(LC 19)

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) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-9-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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.

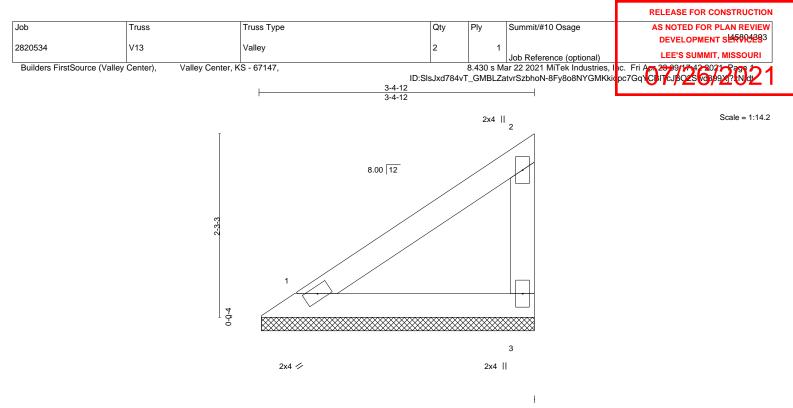


Structural wood sheathing directly applied or 4-10-12 oc purlins,

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

except end verticals.





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 0.14	Vert(LL) r	/a -	n/a	999	MT20 197/144	
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) r	/a -	n/a	999		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.0	00 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 10 lb FT = 20)%
LUMBER-			BRACING-					

TOP CHORD 2x4 SPF No.2

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

BOT CHORD

Structural wood sheathing directly applied or 3-4-12 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-4-6, 3=3-4-6 Max Horz 1=74(LC 9) Max Uplift 1=-15(LC 12), 3=-41(LC 12) Max Grav 1=125(LC 1), 3=134(LC 19)

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

NOTES-

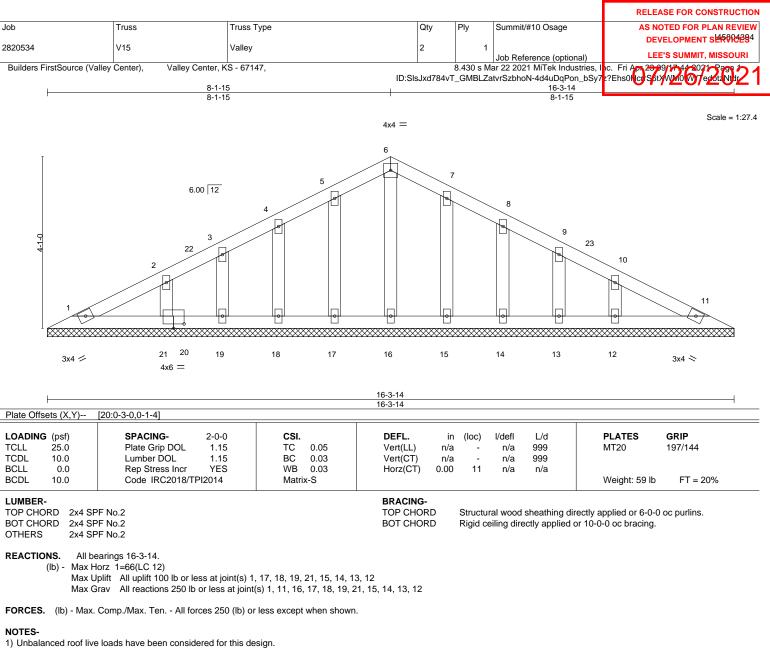
 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown;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

2) Gable requires continuous bottom chord bearing.

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





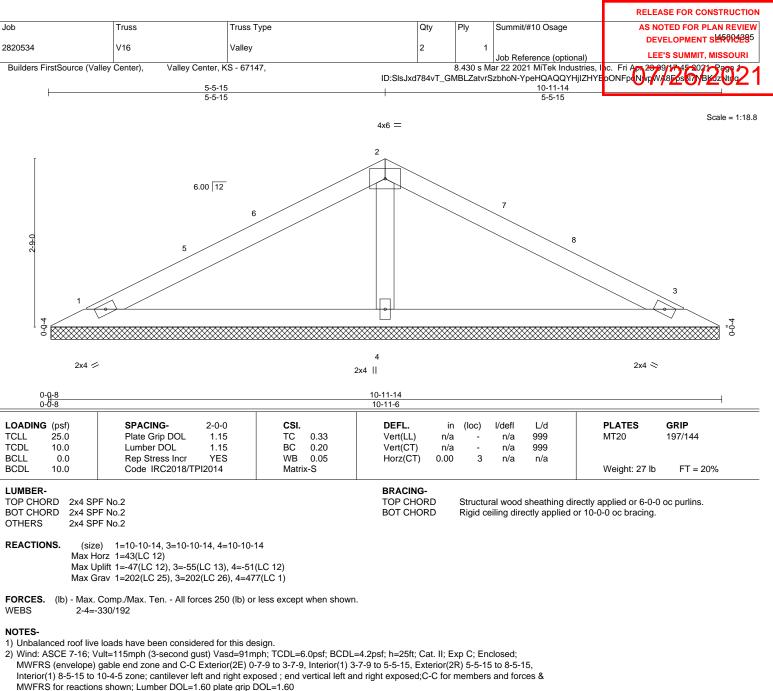


2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-7-7 to 3-7-7, Exterior(2N) 3-7-7 to 8-1-15, Corner(3R) 8-1-15 to 11-1-15, Exterior(2N) 11-1-15 to 15-8-8 zone; cantilever left and 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, 17, 18, 19, 21, 15, 14, 13, 12.
- 8) Non Standard bearing condition. Review required.
- 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.







3) Gable requires continuous bottom chord bearing.

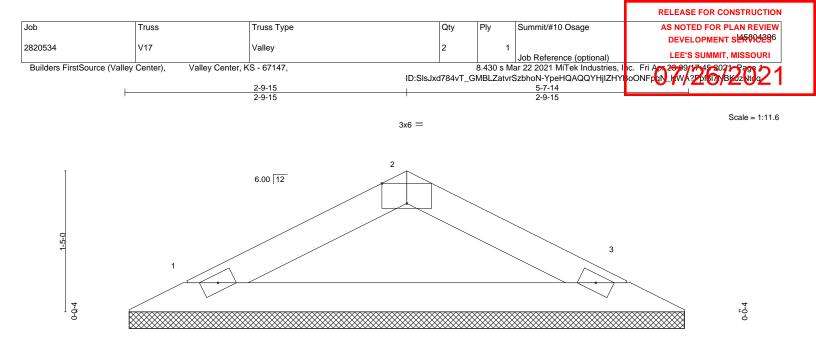
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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.







2x4 💋

2x4 📚

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

Plate Offsets (X,Y)	0-b ¹ -8 [2:0-3-0,Edge]		5-7-6	
OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL) n/a - n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.21	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	
3CDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 12 lb FT = 20%

BOT CHORD

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

REACTIONS. 1=5-6-14, 3=5-6-14 (size) Max Horz 1=19(LC 16) Max Uplift 1=-33(LC 12), 3=-33(LC 13) Max Grav 1=198(LC 1), 3=198(LC 1)

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

NOTES-

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

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

- MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right
- exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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

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





