



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/10/2021

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

\_\_\_\_\_

Site Information:

Customer: Project Name: 2746055 Lot/Block: Address: City:

Model: Subdivision: State:

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

Design Code: IRC2018/TPI2014 Wind Code: N/A Roof Load: 55.0 psf Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 49 individual, dated Truss Design Drawings and 0 Additional Drawings.

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
3       145148932       A3       4/12/2021       23       145148952       CJ1       4/12/2021         4       145148933       A4       4/12/2021       24       145148953       CJ2       4/12/2021         5       145148934       A5       4/12/2021       25       145148953       CJ2       4/12/2021         6       145148935       A6       4/12/2021       26       145148955       D2       4/12/2021         7       145148936       A7       4/12/2021       27       145148956       E1       4/12/2021         8       145148937       A8       4/12/2021       29       145148958       E3       4/12/2021         9       145148938       A9       4/12/2021       30       145148958       E3       4/12/2021         10       145148939       A9A       4/12/2021       30       145148959       LG1       4/12/2021         11       145148940       A10       4/12/2021       31       145148960       LG2       4/12/2021         12       145148941       A11       4/12/2021       32       145148961       LG3       4/12/2021         13       145148943       A13       4/12/2021       33 <t< td=""><td>1</td><td>145148930</td><td>A1</td><td>4/12/2021</td><td>21</td><td>145148950</td><td>B2</td><td>4/12/2021</td></t<>	1	145148930	A1	4/12/2021	21	145148950	B2	4/12/2021
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2	I45148931	A2	4/12/2021	22	145148951	B3	4/12/2021
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	3	I45148932	A3	4/12/2021	23	l45148952	CJ1	4/12/2021
	4	145148933	A4	4/12/2021	24	l45148953	CJ2	4/12/2021
7I45148936A7 $4/12/2021$ 27I45148956E1 $4/12/2021$ 8I45148937A8 $4/12/2021$ 28I45148957E2 $4/12/2021$ 9I45148938A9 $4/12/2021$ 29I45148958E3 $4/12/2021$ 10I45148939A9A $4/12/2021$ 30I45148959LG1 $4/12/2021$ 11I45148940A10 $4/12/2021$ 31I45148960LG2 $4/12/2021$ 12I45148941A11 $4/12/2021$ 32I45148961LG3 $4/12/2021$ 13I45148942A12 $4/12/2021$ 33I45148962LG4 $4/12/2021$ 14I45148943A13 $4/12/2021$ 34I45148963M1 $4/12/2021$ 15I45148944A14 $4/12/2021$ 35I45148964M2 $4/12/2021$ 16I45148945A15 $4/12/2021$ 36I45148965M3 $4/12/2021$ 17I45148946A16 $4/12/2021$ 37I45148966M5 $4/12/2021$ 18I45148947A17 $4/12/2021$ 38I45148967M6 $4/12/2021$ 19I45148948A18 $4/12/2021$ 39I45148968M7 $4/12/2021$	5	I45148934	A5	4/12/2021	25	145148954	D1	4/12/2021
8         I45148937         A8         4/12/2021         28         I45148957         E2         4/12/2021           9         I45148938         A9         4/12/2021         29         I45148958         E3         4/12/2021           10         I45148939         A9A         4/12/2021         30         I45148959         LG1         4/12/2021           11         I45148940         A10         4/12/2021         31         I45148960         LG2         4/12/2021           12         I45148941         A11         4/12/2021         32         I45148961         LG3         4/12/2021           13         I45148942         A12         4/12/2021         33         I45148962         LG4         4/12/2021           14         I45148943         A13         4/12/2021         34         I45148963         M1         4/12/2021           14         I45148943         A13         4/12/2021         35         I45148963         M1         4/12/2021           14         I45148944         A14         4/12/2021         35         I45148963         M1         4/12/2021           15         I45148945         A15         4/12/2021         36         I45148965         M3	6	I45148935	A6	4/12/2021	26	145148955	D2	4/12/2021
9I45148938A94/12/202129I45148958E34/12/202110I45148939A9A4/12/202130I45148959LG14/12/202111I45148940A104/12/202131I45148960LG24/12/202112I45148941A114/12/202132I45148961LG34/12/202113I45148942A124/12/202133I45148962LG44/12/202114I45148943A134/12/202134I45148963M14/12/202115I45148944A144/12/202135I45148964M24/12/202116I45148945A154/12/202136I45148965M34/12/202117I45148946A164/12/202137I45148966M54/12/202118I45148947A174/12/202138I45148967M64/12/202119I45148948A184/12/202139I45148968M74/12/2021	7	145148936	A7	4/12/2021	27	l45148956	E1	4/12/2021
10I45148939A9A4/12/202130I45148959LG14/12/202111I45148940A104/12/202131I45148960LG24/12/202112I45148941A114/12/202132I45148961LG34/12/202113I45148942A124/12/202133I45148962LG44/12/202114I45148943A134/12/202134I45148963M14/12/202115I45148944A144/12/202135I45148964M24/12/202116I45148945A154/12/202136I45148965M34/12/202117I45148946A164/12/202137I45148966M54/12/202118I45148947A174/12/202138I45148967M64/12/202119I45148948A184/12/202139I45148968M74/12/2021	8	145148937	A8	4/12/2021	28	l45148957	E2	4/12/2021
11I45148940A104/12/202131I45148960LG24/12/202112I45148941A114/12/202132I45148961LG34/12/202113I45148942A124/12/202133I45148962LG44/12/202114I45148943A134/12/202134I45148963M14/12/202115I45148944A144/12/202135I45148964M24/12/202116I45148945A154/12/202136I45148965M34/12/202117I45148946A164/12/202137I45148966M54/12/202118I45148947A174/12/202138I45148967M64/12/202119I45148948A184/12/202139I45148968M74/12/2021	9	145148938	A9	4/12/2021	29	l45148958	E3	4/12/2021
12145148941A114/12/202132145148961LG34/12/202113145148942A124/12/202133145148962LG44/12/202114145148943A134/12/202134145148963M14/12/202115145148944A144/12/202135145148964M24/12/202116145148945A154/12/202136145148965M34/12/202117145148946A164/12/202137145148966M54/12/202118145148947A174/12/202138145148967M64/12/202119145148948A184/12/202139145148968M74/12/2021	10	I45148939	A9A	4/12/2021	30	l45148959	LG1	4/12/2021
13I45148942A124/12/202133I45148962LG44/12/202114I45148943A134/12/202134I45148963M14/12/202115I45148944A144/12/202135I45148964M24/12/202116I45148945A154/12/202136I45148965M34/12/202117I45148946A164/12/202137I45148966M54/12/202118I45148947A174/12/202138I45148967M64/12/202119I45148948A184/12/202139I45148968M74/12/2021	11	I45148940	A10	4/12/2021	31	I45148960	LG2	4/12/2021
14145148943A134/12/202134145148963M14/12/202115145148944A144/12/202135145148964M24/12/202116145148945A154/12/202136145148965M34/12/202117145148946A164/12/202137145148966M54/12/202118145148947A174/12/202138145148967M64/12/202119145148948A184/12/202139145148968M74/12/2021	12	I45148941	A11	4/12/2021	32	l45148961	LG3	4/12/2021
15145148944A144/12/202135145148964M24/12/202116145148945A154/12/202136145148965M34/12/202117145148946A164/12/202137145148966M54/12/202118145148947A174/12/202138145148967M64/12/202119145148948A184/12/202139145148968M74/12/2021	13	I45148942	A12	4/12/2021	33	l45148962	LG4	4/12/2021
16145148945A154/12/202136145148965M34/12/202117145148946A164/12/202137145148966M54/12/202118145148947A174/12/202138145148967M64/12/202119145148948A184/12/202139145148968M74/12/2021	14	I45148943	A13	4/12/2021	34	l45148963	M1	4/12/2021
17145148946A164/12/202137145148966M54/12/202118145148947A174/12/202138145148967M64/12/202119145148948A184/12/202139145148968M74/12/2021	15	I45148944	A14	4/12/2021	35	l45148964	M2	4/12/2021
18         I45148947         A17         4/12/2021         38         I45148967         M6         4/12/2021           19         I45148948         A18         4/12/2021         39         I45148968         M7         4/12/2021	16	I45148945	A15	4/12/2021	36	l45148965	M3	4/12/2021
19         I45148948         A18         4/12/2021         39         I45148968         M7         4/12/2021	17	145148946	A16	4/12/2021	37	l45148966	M5	4/12/2021
	18	145148947	A17	4/12/2021	38	l45148967	M6	4/12/2021
20         I45148949         B1         4/12/2021         40         I45148969         M8         4/12/2021	19	I45148948	A18	4/12/2021	39	l45148968	M7	4/12/2021
	20	l45148949	B1	4/12/2021	40	I45148969	M8	4/12/2021

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

MiTek USA, Inc under my direct supervision

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

Truss Design Engineer's Name: Sevier, Scott

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

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





RE: 2746055 - Summit/24 Woodside

# Site Information:

l45148975

l45148976

I45148977

l45148978

46

47

48

49

Proje Lot/B Addre		Project Name: 27	46055	Subdivision:
City,	County:			State:
No.	Seal#	Truss Name	Date	
41	145148970	V1	4/12/2021	
42	145148971	V2	4/12/2021	
43	145148972	V3	4/12/2021	
44	145148973	V4	4/12/2021	
45	145148974	V5	4/12/2021	

V6

V7

V8

V9

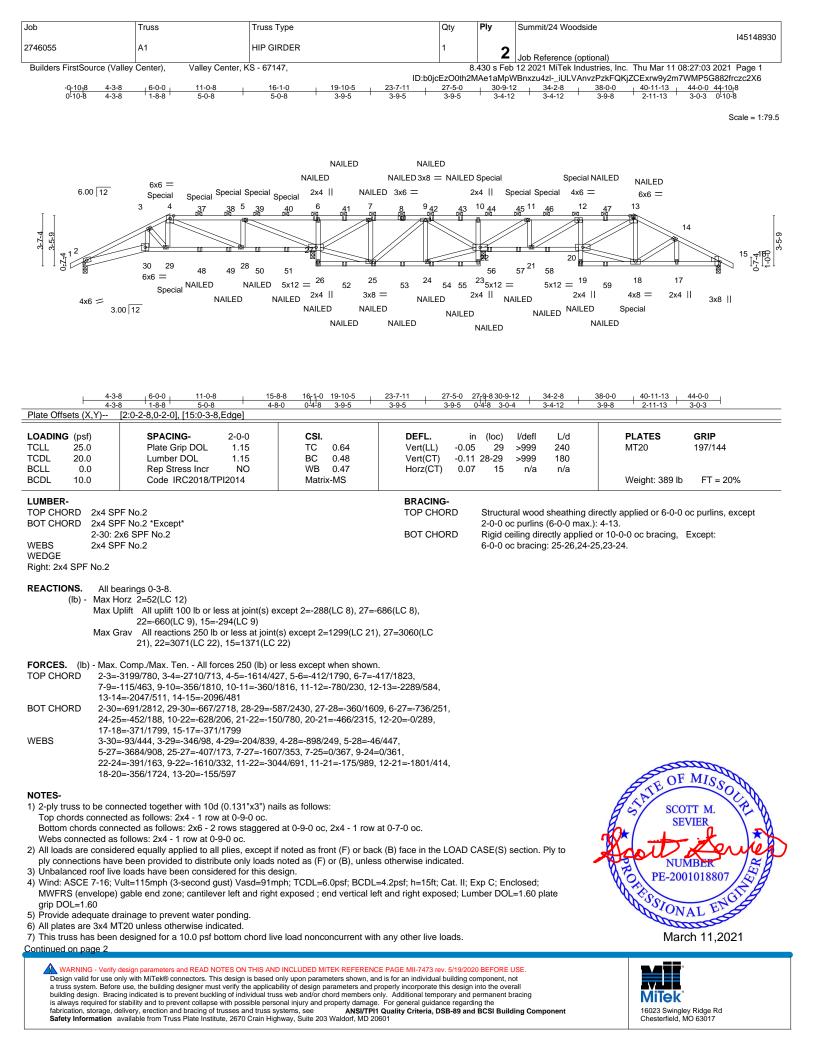
4/12/2021

4/12/2021

4/12/2021

4/12/2021

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



Job	Truss	Truss Type	Qty	Ply	Summit/24 Woodside
0740055					I45148930
2746055	A1	HIP GIRDER	1	2	Job Reference (optional)
Builders EirstSource (Vall	v Center) Valley Center H	 (S - 67147	8		12 2021 MiTek Industries Inc. Thu Mar 11 08:27:03 2021 Page 2

ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-\_iULVAnvzPzkFQKjZCExrw9y2m7WMP5G882frczc2X6

- 8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
   9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 288 lb uplift at joint 2, 686 lb uplift at joint 27, 660 lb uplift at joint 22 and 294 lb
- uplift at joint 15. 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- (11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- The original pullin representation does not depict the size of the orientation of the pullin along the top and/o
   "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 200 lb down and 96 lb up at 6-0-0, 176 lb down and 96 lb up at 8-0-12, 176 lb down and 96 lb up at 10-0-12, 176 lb down and 96 lb up at 10-0-12, 176 lb down and 96 lb up at 30-0-12, 176 lb down and 96 lb up at 30-0-12, 176 lb down and 96 lb up at 32-0-12, and 176 lb down and 96 lb up at 32-0-12, and 176 lb down and 96 lb up at 32-0-12, and 176 lb down and 96 lb up at 32-0-12, and 176 lb down and 96 lb up at 32-0-12, and 176 lb down and 96 lb up at 32-0-12, and 176 lb down and 96 lb up at 32-0-12, and 176 lb down and 96 lb up at 32-0-12, and 176 lb down and 96 lb up at 34-0-12 on top chord, and 401 lb down and 159 lb up at 6-0-0, and 458 lb down and 150 lb up at 37-11-4 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

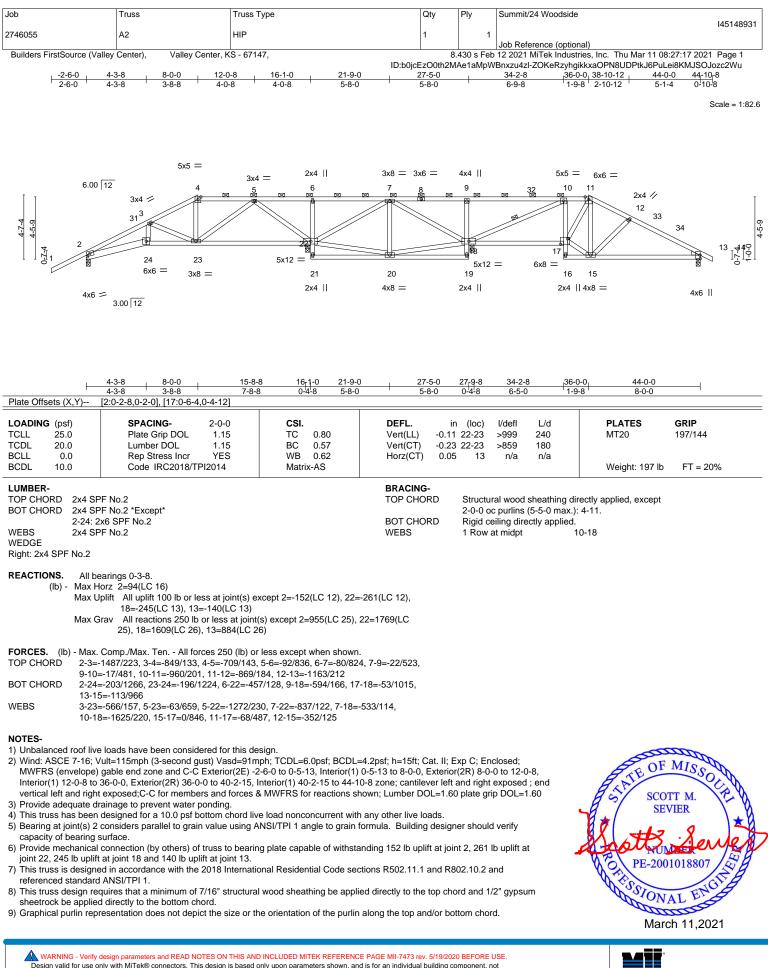
Uniform Loads (plf) Vert: 1-4=-90, 4-13=-90, 13-16=-90, 30-31=-20, 27-30=-20, 23-26=-20, 20-22=-20, 19-34=-20

Concentrated Loads (lb)

Vert: 4=-176(B) 8=-114(B) 27=-59(B) 6=-114(B) 12=-176(B) 29=-401(B) 25=-59(B) 7=-114(B) 13=-114(B) 18=-458(B) 37=-176(B) 38=-176(B) 39=-176(B) 40=-176(B) 41=-114(B) 42=-114(B) 42=-114(B) 43=-176(B) 45=-176(B) 45=-176(B) 46=-176(B) 47=-114(B) 52=-59(B) 53=-59(B) 54=-59(B) 55=-59(B) 55=-

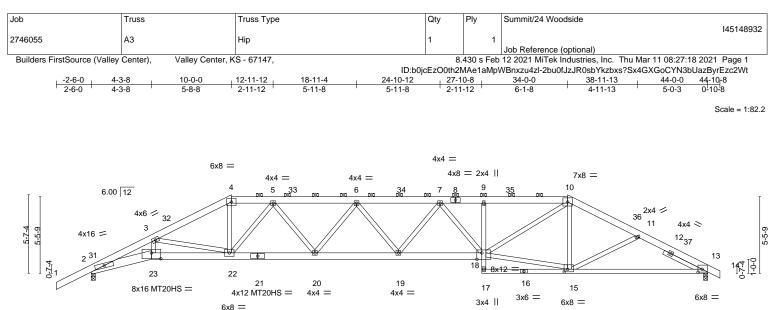
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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





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 property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI (Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Mitek<sup>®</sup> 16023 Swingley Ridge Rd Chesterfield, MO 63017

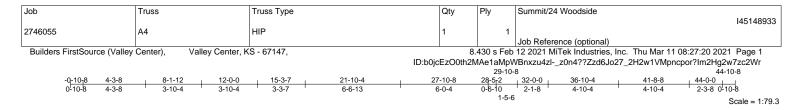


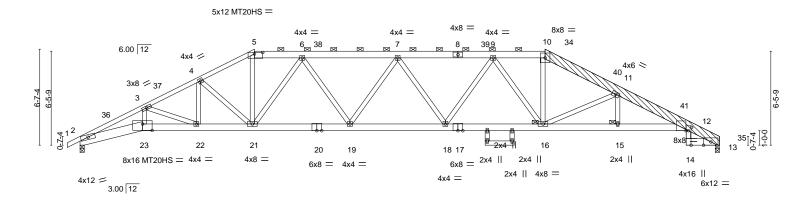
3.00 12

H		15-11-8 21-11- 5-11-8 5-11-8			6-1-8	44-0-0 10-0-0	
Plate Offsets (X,Y)	[13:0-3-8,0-2-8], [15:0-3-0,0-2-4], [18:0					10 0 0	
LOADING (psf) TCLL 25.0 TCDL 20.0 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	<b>CSI.</b> TC 0.58 BC 0.64 WB 0.99 Matrix-AS	Vert(LL) -0.40	3 18-19 >60	9 240 0 180	PLATES MT20 MT20HS Weight: 248 lb	<b>GRIP</b> 197/144 148/108 FT = 20%
BOT CHORD 2x6 SI 2-23: 2 13-16: WEBS 2x4 SI	PF No.2 PF 2100F 1.8E *Except* 2x8 SP 2400F 2.0E, 9-17,16-17: 2x4 SP :: 2x4 SP 2400F 2.0E PF No.2 2x4 SPF No.2 -t 3-0-0	F No.2	BRACING- TOP CHORD BOT CHORD	2-0-0 oc pur	ood sheathing dir lins (2-6-2 max.): directly applied.	ectly applied, except 4-10.	
Max I Max I	ze) 2=0-3-8, 13=0-3-8 Horz 2=110(LC 12) Uplift 2=-316(LC 12), 13=-284(LC 13) Grav 2=2642(LC 1), 13=2499(LC 1)						
TOP CHORD 2-3= 7-9= BOT CHORD 2-23 9-18 WEBS 3-23	<ul> <li>c. Comp./Max. Ten All forces 250 (lb) o</li> <li>=-7477/813, 3-4=-5228/557, 4-5=-4633/5</li> <li>=-6023/696, 9-10=-5994/697, 10-11=-41</li> <li>3=-753/6749, 22-23=-729/6474, 20-22=-5</li> <li>8=-421/118, 15-17=-31/383, 13-15=-370</li> <li>3=-90/1296, 3-22=-1872/308, 4-22=-174</li> <li>15=-411/142, 5-22=-1475/270, 5-20=-117</li> </ul>	38, 5-6=-5988/689, 6-7=-6 12/459, 11-13=-4295/508 582/5457, 19-20=-711/647 /3770 /1804, 15-18=-279/3334, 1	521/740, 5, 18-19=-680/6429, 0-18=-388/2813,				
<ol> <li>Wind: ASCE 7-16; MWFRS (envelope) Interior(1) 14-2-15 t end vertical left and DOL=1.60</li> <li>Provide adequate d</li> <li>All plates are MT20</li> <li>This truss has beer</li> <li>Bearing at joint(s) 2 capacity of bearing</li> <li>Provide mechanica joint 13.</li> <li>This truss is design referenced standard</li> </ol>	al connection (by others) of truss to bearined in accordance with the 2018 Internation	nph; TCDL=6.0psf; BCDL= 2-6-0 to 0-6-0, Interior(1) 0 5, Interior(1) 38-2-15 to 44- rces & MWFRS for reaction ve load nonconcurrent with ANSI/TPI 1 angle to grain f ng plate capable of withsta ional Residential Code sec	-6-0 to 10-0-0, Exterior( 10-8 zone; cantilever let is shown; Lumber DOL any other live loads. ormula. Building desigr nding 316 lb uplift at joi tions R502.11.1 and R8	(2Ř) 10-0-0 to ft and right exp =1.60 plate gri ner should veri nt 2 and 284 lt 302.10.2 and	14-2-15, posed ; p fy o uplift at		MISSOLA WIT M. VIER MBER 1018807

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







<u>  4-3-</u> 4-3-		18-6-13	25-1-11 6-6-14	<u>27-10-8</u> <u>29-10-8</u> <u>32-0-0</u> 2-8-13 2-0-0 2-1-8	<u>36-10-4</u> 4-10-4	41-8-8	+44-0-0
	[5:0-6-12,0-1-4], [12:1-2-12,Edge], [12			2-0-13 2-0-0 2-1-0	4-10-4	4-10-4	2-3-0
LOADING         (psf)           TCLL         25.0           TCDL         20.0           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 0.83 BC 0.91 WB 0.85 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/defl -0.37 18-19 >999 -0.82 18-19 >642 0.42 13 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 298 lb	<b>GRIP</b> 197/144 148/108 FT = 20%
BOT CHORD         2x4 SF           2-23: 2         13-14,           WEBS         2x4 SF           OTHERS         2x8 SF	4 SPF No.2, 10-13: 2x8 SP 2400F 2.0		BRACING TOP CHO BOT CHO JOINTS	RD Structural wood s 2-0-0 oc purlins (	2-10-15 max.): ctly applied.	tly applied, except 5-10.	
Max H Max U	te) 2=0-3-8, 13=0-3-8 Horz 2=64(LC 11) Jplift 2=-7(LC 9), 13=-4(LC 8) Grav 2=2492(LC 1), 13=2416(LC 1)						
TOP CHORD 2-3=- 7-9=- BOT CHORD 2-23= 16-1 WEBS 12-14 6-21=	Comp./Max. Ten All forces 250 (lb) -7139/625, 3-4=-5529/521, 4-5=-4659/ -5124/514, 9-10=-4233/446, 10-11=-4/ =-521/6397, 22-23=-505/6202, 21-22= I8=-336/4835, 15-16=-432/5533, 12-19/ 4=-38/486, 3-23=-48/985, 5-21=-153/1 =-1386/144, 6-19=-14/655, 7-19=-493/ =-1173/121, 11-15=0/294, 4-21=-1045	469, 5-6=-4084/439, 6-7=- 761/469, 11-12=-5980/539 -370/4909, 19-21=-329/48 5=-432/5533 861, 10-16=-129/1677, 11 83, 7-18=-472/80, 9-18=-1	5114/510, , 12-13=-1140/126 06, 18-19=-373/53 -16=-1503/192, 3/622,				
	ab 10 to 13, front face(s) 2x8 SP 2400 at joint 10, nail 2 row(s) at 7" o.c. for 2-					STE OF	MISSO
<ol> <li>Wind: ASCE 7-16; W MWFRS (envelope) 16-2-15 to 32-0-0, E left and right expose</li> <li>Provide adequate di 5) All plates are MT20</li> <li>This truss has been 7) Bearing at joint(s) 2, capacity of bearing s</li> </ol>	e loads have been considered for this /ult=115mph (3-second gust) Vasd=91 ) and C-C Exterior(2E) -0-10-8 to 2-1-8 Exterior(2R) 32-0-0 to 36-2-15, Interiori ed;C-C for members and forces & MW rainage to prevent water ponding, plates unless otherwise indicated. I designed for a 10.0 psf bottom chord , 13 considers parallel to grain value u surface.	mph; TCDL=6.0psf; BCDL , Interior(1) 2-1-8 to 12-0-0 1) 36-2-15 to 43-10-5 zone FRS for reactions shown; L live load nonconcurrent wit sing ANSI/TPI 1 angle to g	), Exterior(2R) 12- e; cantilever left ar _umber DOL=1.60 th any other live lo rain formula. Buil	0-0 to 16-2-15, Interior(1) d right exposed ; end veri plate grip DOL=1.60 ads. ding designer should verif	y	SE SE	TT M. VIER MBER 101018807
9) This truss is designed	ed in accordance with the 2018 Interna	tional Residential Code se	ections R502.11.1	and R802.10.2 and		Mar	ch 11,2021
Design valid for use o a truss system. Before building design. Braci	J ANSI/TPI 1. design parameters and READ NOTES ON THIS A only with MITek® connectors. This design is base the building designer must verify the appliting ing indicated is to prevent buckling of individual rstability and to prevent collapse with possible po-	d only upon parameters shown, a cability of design parameters and russ web and/or chord members of	nd is for an individual b properly incorporate thi only. Additional tempor	uilding component, not s design into the overall ary and permanent bracing		MiTek <sup>®</sup>	

billing design. Dialong indicates is to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

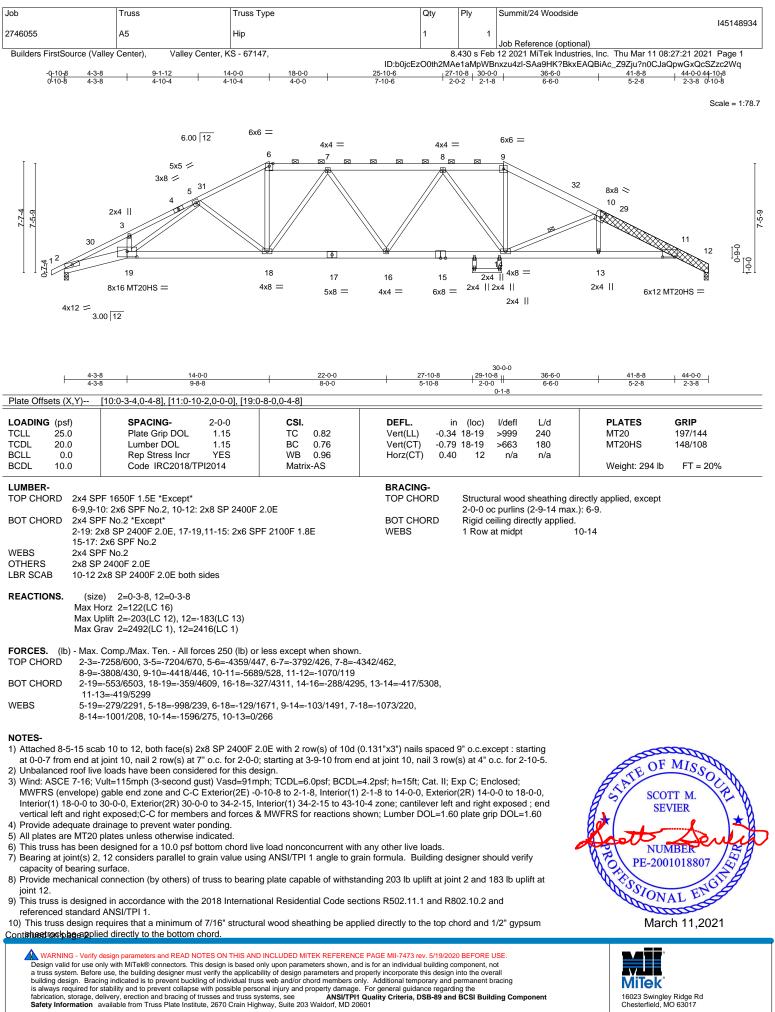
[	Job	Truss	Truss Type	Qty	Ply	Summit/24 Woodside
						I45148933
	2746055	A4	HIP	1	1	
						Job Reference (optional)
	Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8.	430 s Feb	12 2021 MiTek Industries, Inc. Thu Mar 11 08:27:20 2021 Page 2
	ID:				IAe1aMpV	VBnxzu4zlz0n4??Zzd6Jo27_2H2w1VMpncpor?Im2Hg2w7zc2Wr

10) 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.

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





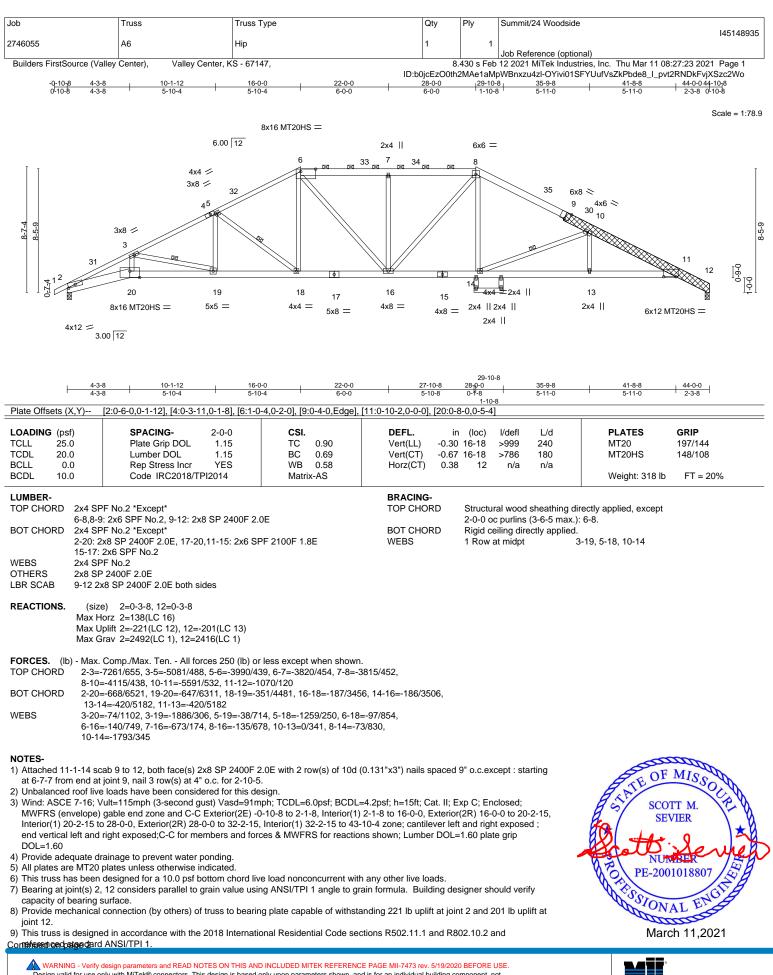
16023 Swingley Ridge Rd Chesterfield, MO 63017

[	Job	Truss	Truss Type	Qty	Ply	Summit/24 Woodside
						145148934
	2746055	A5	Hip	1	1	
						Job Reference (optional)
	Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8.	430 s Feb	12 2021 MiTek Industries, Inc. Thu Mar 11 08:27:21 2021 Page 2
				zO0th2MA	e1aMpWB	nxzu4zI-SAa9HK?BkxEAQBiAc_Z9Zju?n0CJaQpwGxQcSZzc2Wq

11) 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 **ANSUTPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





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

16023 Swingley Ridge Rd Chesterfield, MO 63017

**MiTek** 

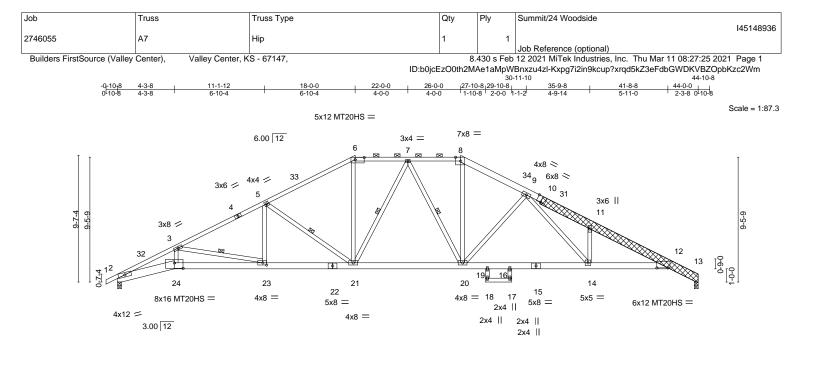
Job	Truss	Truss Type	Qty	Ply	Summit/24 Woodside
					145148935
2746055	A6	Hip	1	1	
					Job Reference (optional)
Builders FirstSource (Valley	/ Center), Valley Center, F	(S - 67147,	8.	430 s Feb	12 2021 MiTek Industries, Inc. Thu Mar 11 08:27:23 2021 Page 2
			jcEzO0th	2MAe1aMp	bWBnxzu4zI-OYivi01SFYUufVsZkPbde8_I_pvt2RNDkFvjXSzc2Wo

10) 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.

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





		8-0-0         26-0-0           5-10-4         8-0-0	27-10-8 <sub>1</sub> 29-10-8 1-10-8 2-0-0 5-11-0	<u>41-8-8</u>   <u>44-0-0</u>   5-11-0 2-3-8
Plate Offsets (X,Y)	[6:0-8-4,0-2-0], [8:0-4-10,Edge], [10:0-4-0,Edg	ge], [12:0-10-2,0-0-0], [23:0-3-8,0-2-	0], [24:0-8-0,0-5-0]	
LOADING(psf)TCLL25.0TCDL20.0BCLL0.0BCDL10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI.         DEFL.           TC         0.91         Vert(LL)           BC         0.70         Vert(CT)           WB         0.99         Horz(CT)           Matrix-AS         Horz(CT)	in (loc) l/defl L/d -0.30 21 >999 240 -0.68 20-21 >771 180 0.39 13 n/a n/a	PLATES         GRIP           MT20         197/144           MT20HS         148/108           Weight: 334 lb         FT = 20%
8-10: 2 10-13: 2-24: 2 15-22: WEBS 2x4 SF OTHERS 2x8 SF LBR SCAB 10-13 REACTIONS. (siz Max H Max L	PF No.2 *Except* 2x6 SPF No.2, 1-4: 2x4 SPF 1650F 1.5E 2x8 SP 2400F 2.0E PF No.2 *Except* 2x8 SP 2400F 2.0E, 22-24,12-15: 2x6 SPF 210 2x6 SPF No.2 PF No.2 2400F 2.0E 2x8 SP 2400F 2.0E both sides e) 2=0-3-8, 13=0-3-8 lorz 2=154(LC 16) lplift 2=-238(LC 12), 13=-217(LC 13) orav 2=2492(LC 1), 13=2416(LC 1)	BRACING TOP CHC BOT CHC WEBS	RD         Structural wood sheathing dii           2-0-0 oc purlins (2-11-13 max           RD         Rigid ceiling directly applied.	
TOP CHORD         2-3=- 8-9=- 8-9=-           BOT CHORD         2-24- 16-1           WEBS         3-24- 8-20-	Comp./Max. Ten All forces 250 (lb) or less e 7327/727, 3-5=-4925/475, 5-6=-3698/423, 6-7 -3673/427, 9-11=-5738/595, 11-12=-5483/480, =-752/6589, 23-24=-730/6372, 21-23=-379/430 9=-263/3846, 14-16=-259/3899, 12-14=-358/5 -81/1149, 3-23=-2113/359, 5-23=-30/693, 5-2 =-96/1170, 9-20=-1071/253, 9-14=-233/1767, 1 =-399/122	'=-3167/414, 7-8=-3182/407, 12-13=-1070/119 05, 20-21=-160/3267, 19-20=-259/3 048 11=-1376/287, 6-21=-81/1124,	899,	
starting at 8-10-4 fro 2) Unbalanced roof live 3) Wind: ASCE 7-16; V MWFRS (envelope) Interior(1) 22-0-0 to vertical left and righ 4) Provide adequate d 5) All plates are MT20 6) This truss has been 7) Bearing at joint(2) capacity of bearing at joint 21 8) Provide mechanical joint 13.	connection (by others) of truss to bearing plate ad in accordance with the 2018 International Re	10-5. CDL=6.0psf; BCDL=4.2psf; h=15ft; ( to 2-1-8, Interior(1) 2-1-8 to 18-0-0, r(1) 30-2-15 to 43-10-4 zone; cantile FRS for reactions shown; Lumber D nonconcurrent with any other live live SI/TPI 1 angle to grain formula. Builtien to grain formula. Builtien to grain formula.	Cat. II; Exp C; Enclosed; Exterior(2R) 18-0-0 to 22-0-0, ever left and right exposed ; end DL=1.60 plate grip DOL=1.60 bads. Iding designer should verify ift at joint 2 and 217 lb uplift at	Statie OF MISSOL SCOTT M. SEVIER NUMBER PE-2001018807 FF-SSIONAL ENGINE March 11,2021
Design valid for use o a truss system. Before building design. Brac	design parameters and READ NOTES ON THIS AND INCLU nly with MiTek® connectors. This design is based only upo e use, the building designer must verify the applicability of c ing indicated is to prevent buckling of individual truss web a stability and to prevent collarse with possible percental init	n parameters shown, and is for an individual design parameters and properly incorporate the and/or chord members only. Additional tempore	building component, not nis design into the overall rary and permanent bracing	

billing design. Dialong indicates is to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

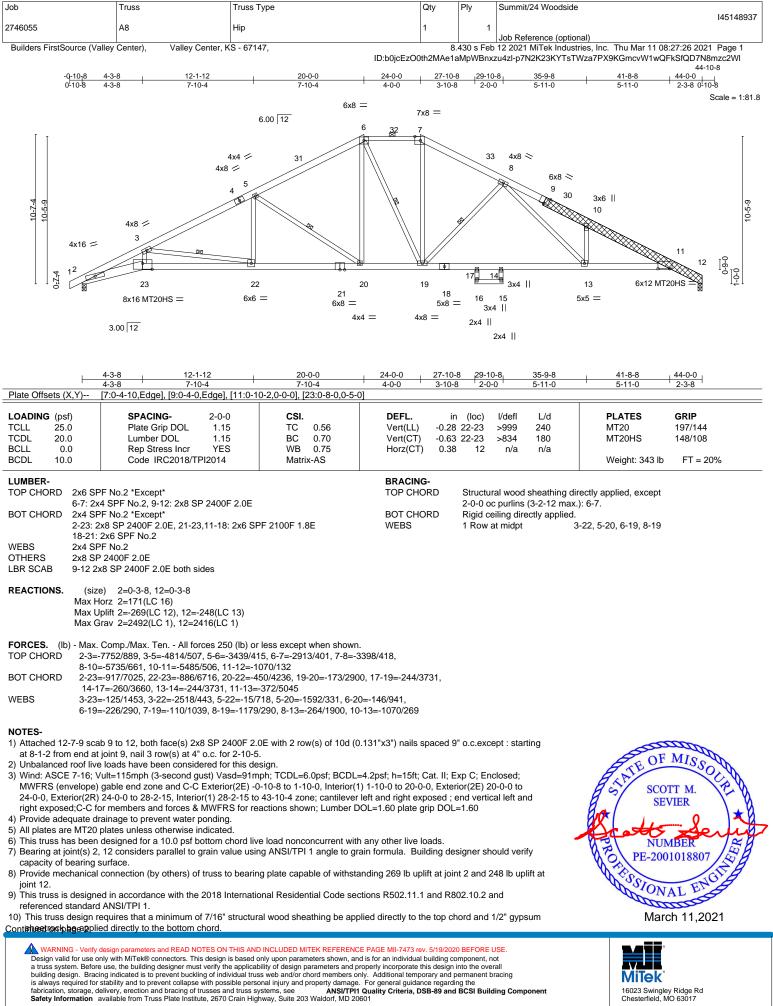
Job	Truss	Truss Type	Qty	Ply	Summit/24 Woodside
0740055	47	18-			145148936
2746055	A7	Hip	1	- T	Job Reference (optional)
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8.		12 2021 MiTek Industries, Inc. Thu Mar 11 08:27:25 2021 Page 2
		ID:b0jcE	zO0th2M	Ae1aMpW	Bnxzu4zI-Kxpg7i2in9kcup?xrqd5kZ3eFdbGWDKVBZOpbKzc2Wm

10) 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.

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





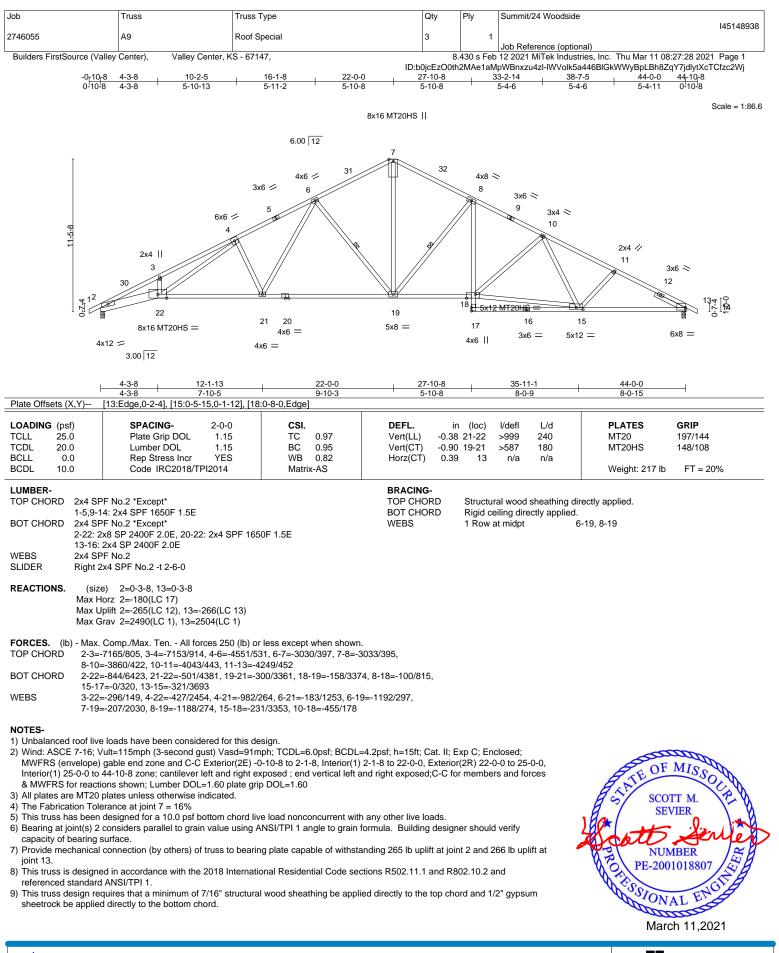
16023 Swingley Ridge Rd Chesterfield, MO 63017

[	Job	Truss	Truss Type	Qty	Ply	Summit/24 Woodside
						145148937
	2746055	A8	Hip	1	1	
						Job Reference (optional)
	Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8.	430 s Feb	12 2021 MiTek Industries, Inc. Thu Mar 11 08:27:26 2021 Page 2
		ID:b0jcEzO0	0th2MAe1a	MpWBnxz	zu4zl-p7N2K23KYTsTWza7PX9KGmcvW1wQFkSfQD7N8mzc2Wl	

11) 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 **ANSUTPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

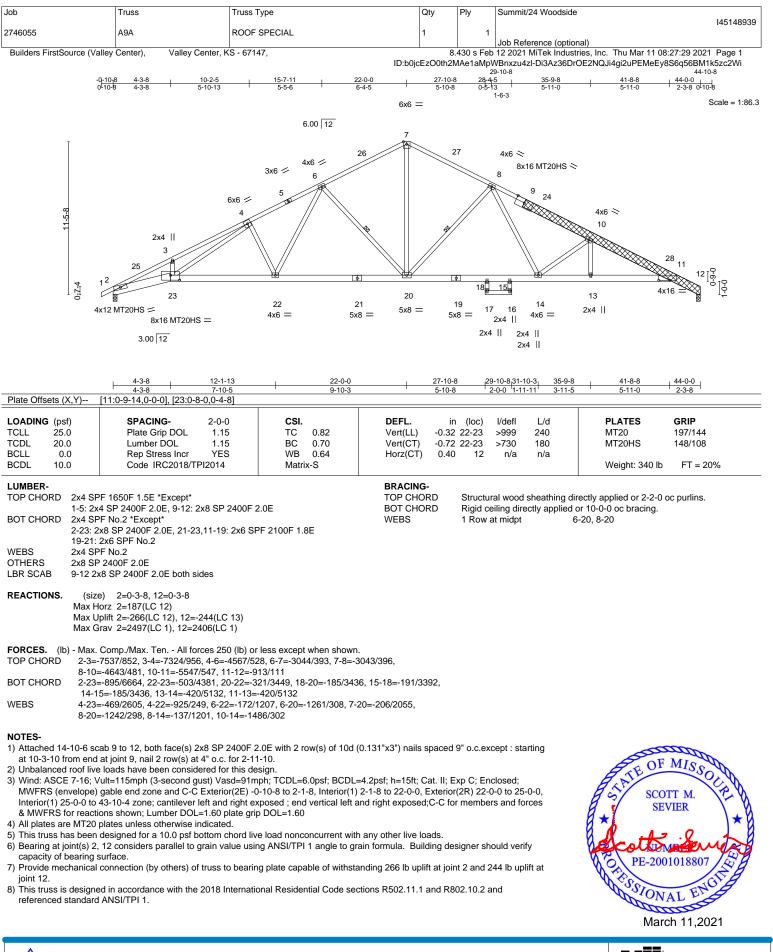




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

16023 Swingley Ridge Rd Chesterfield, MO 63017

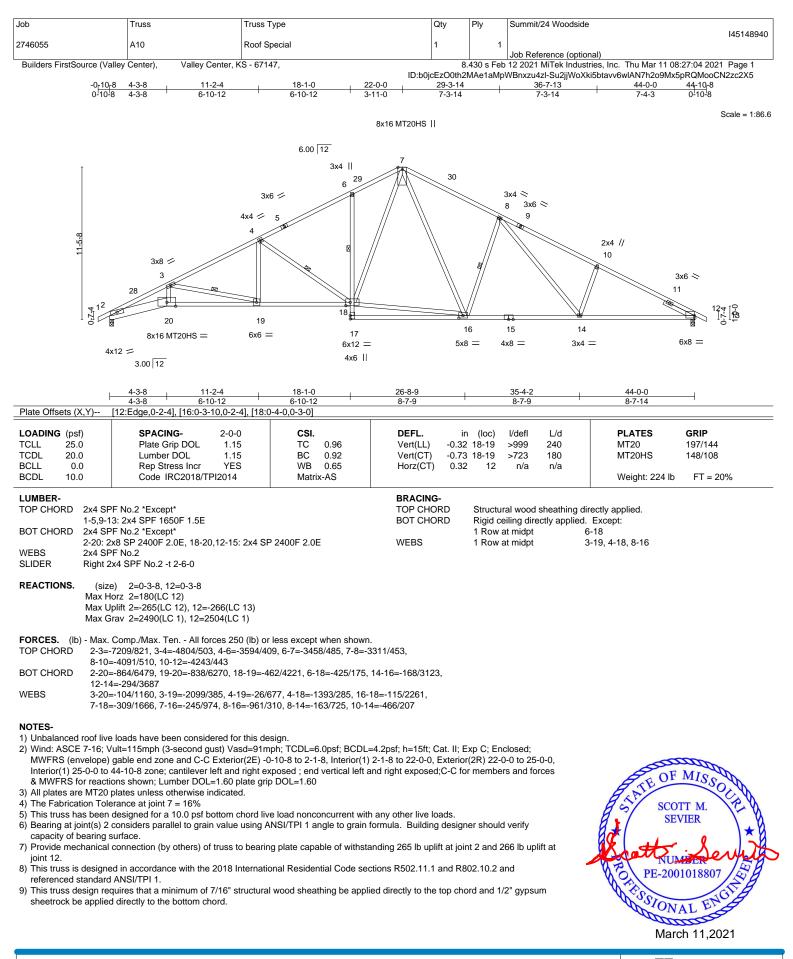
MiTek



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

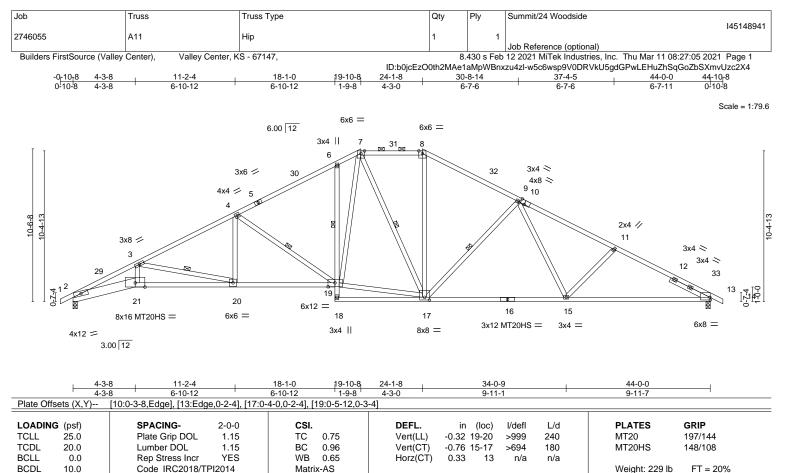
#### 16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek



NITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017

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 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



					Ŭ
LUMBER-			BRACING-		
TOP CHORD	2x4 SPF No.2 *Except*		TOP CHORD	Structural wood sheathing d	irectly applied, except
	1-5,10-14: 2x4 SPF 1650F 1.5E			2-0-0 oc purlins (3-4-11 max	.): <b>7-8</b> .
BOT CHORD	2x4 SPF No.2 *Except*		BOT CHORD	Rigid ceiling directly applied	Except:
	2-21: 2x8 SP 2400F 2.0E, 19-21,13-16: 2x4	SP 2400F 2.0E		1 Row at midpt	6-19
WEBS	2x4 SPF No.2		WEBS	1 Row at midpt	3-20, 4-19, 7-17, 9-17
SLIDER	Right 2x4 SPF No.2 -t 3-0-0				

REACTIONS. (size) 2=0-3-8, 13=0-3-8 Max Horz 2=-164(LC 17) Max Uplift 2=-269(LC 12), 13=-270(LC 13) Max Grav 2=2490(LC 1), 13=2504(LC 1)

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

 TOP CHORD
 2-3=-7209/823, 3-4=-4804/510, 4-6=-3594/421, 6-7=-3413/480, 7-8=-2602/396, 8-9=-3058/404, 9-11=-3968/444, 11-13=-4238/463

 BOT CHORD
 2-21=-848/6479, 20-21=-824/6270, 19-20=-452/4221, 6-19=-285/154, 15-17=-207/3240, 13-15=-318/3700

 WEBS
 3-21=-101/1161, 3-20=-2099/381, 4-20=-25/676, 4-19=-1392/285, 17-19=-131/2638, 7-40-209/4267, 7-47, 202/440, 9-47, 202/200, 0-47, 202/200, 0-47, 202/200

7-19=-296/1617, 7-17=-602/140, 8-17=-84/800, 9-17=-933/260, 9-15=-53/537, 11-15=-391/185

### 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=15ft; 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 19-10-8, Exterior(2E) 19-10-8 to 24-1-8, Exterior(2R) 24-1-8 to 28-4-7, Interior(1) 28-4-7 to 44-10-8 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) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 269 lb uplift at joint 2 and 270 lb uplift at joint 13.

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.

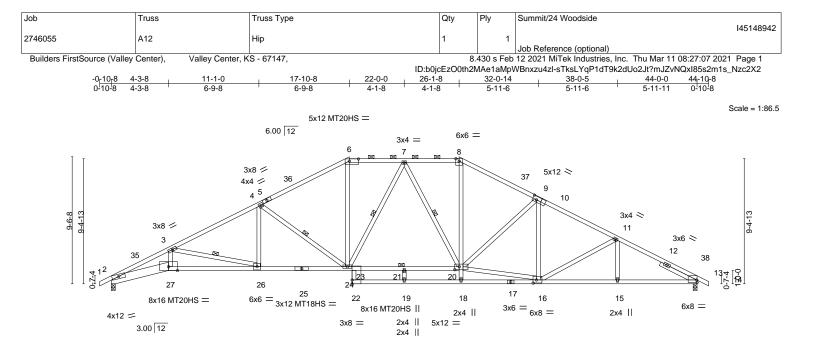
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

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







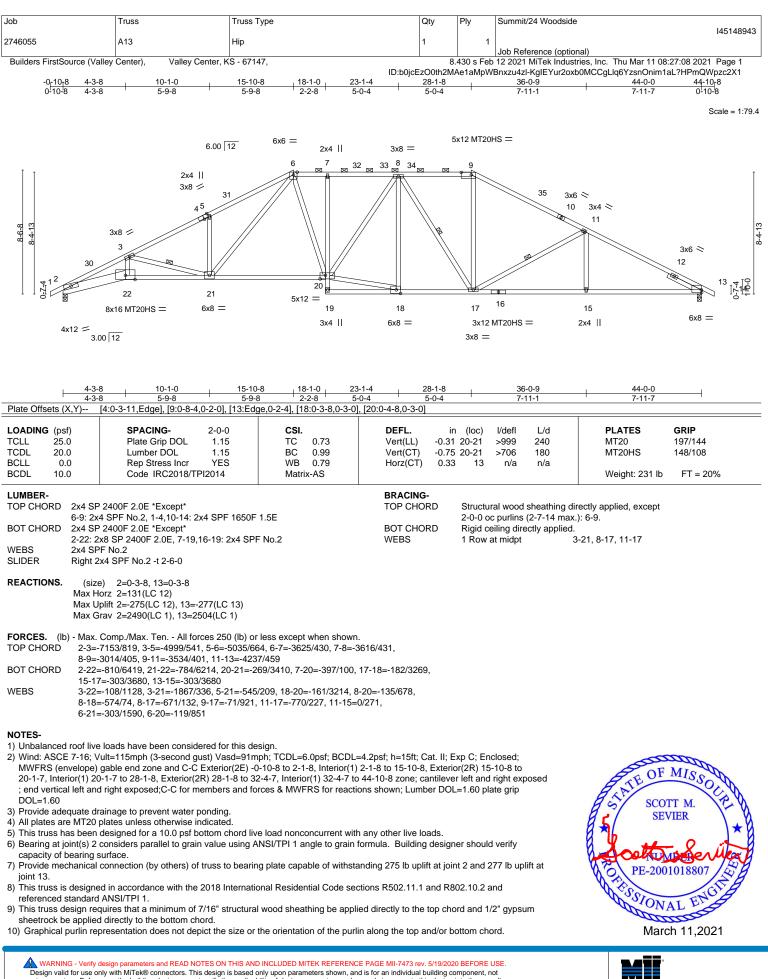
F	4-3-8 11-1-0 4-3-8 6-9-8	17-10-8 18 <sub>1</sub> 1-0 22-0 6-9-8 0-2-8 3-11	-0 4-1-8	32-0-14 5-11-6	38-0-5 5-11-6	44-0-0 5-11-11	
Plate Offsets (X,Y)	[6:0-8-4,0-2-0], [10:0-3-8,0-3-0], [13:Ec	ge,0-2-4], [16:0-3-0,0-2-12]	, [20:0-4-0,0-2-12]				
LOADING         (psf)           TCLL         25.0           TCDL         20.0           BCLL         0.0           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	<b>CSI.</b> TC 0.91 BC 0.71 WB 0.72 Matrix-AS	Vert(LL) -0.33	n (loc) l/defl 3 24-26 >999 3 24-26 >717 4 13 n/a	L/d 240 180 n/a	PLATES         GRIP           MT20         197/144           MT20HS         148/108           MT18HS         197/144           Weight: 234 lb         FT = 20%	
BOT CHORD         2x4 S           2-27:         20-25           WEBS         2x4 S	PF No.2 *Except* )-14: 2x4 SPF 1650F 1.5E PF No.2 *Except* 2x8 SP 2400F 2.0E, 25-27,13-17: 2x4 S : 2x4 SPF 1650F 1.5E PF No.2 2x4 SPF No.2 -t 3-0-0	P 2400F 2.0E	BRACING- TOP CHORD BOT CHORD WEBS JOINTS	Structural wood a 2-0-0 oc purlins ( Rigid ceiling dire 1 Row at midpt 1 Brace at Jt(s):	(3-0-5 max.): 6-8. ctly applied. 3-26,		
Max I Max I	ze) 2=0-3-8, 13=0-3-8 Horz 2=147(LC 12) Uplift 2=-272(LC 12), 13=-274(LC 13) Grav 2=2490(LC 1), 13=2504(LC 1)						
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-7203/821, 3-4=-4821/520, 4-6=-3664/421, 6-7=-3137/410, 7-8=-3087/412, 8-9=-3557/422, 9-11=-3860/430, 11-13=-4222/455         BOT CHORD       2-27=-829/6473, 26-27=-805/6265, 24-26=-445/4237, 23-24=-187/3216, 21-23=-199/2797, 20-21=-199/2797, 19-22=0/419, 18-19=0/419, 16-18=0/477, 15-16=-317/3688, 13-15=-317/3688         WEBS       3-27=-97/1156, 3-26=-2080/369, 4-26=-29/670, 8-20=-102/1105, 16-20=-235/2952, 11-16=-382/141, 6-24=-88/1107, 4-24=-1340/281, 9-20=-475/192, 7-24=-404/138, 7-20=-497/135							
<ol> <li>Wind: ASCE 7-16; MWFRS (envelope 22-0-0, Interior(1) 2 ; end vertical left an DOL=1.60</li> <li>Provide adequate of 4) All plates are MT20</li> <li>This truss has beer</li> <li>Bearing at joint(s) 2 capacity of bearing</li> <li>Provide mechanica joint 13.</li> <li>This truss is design referenced standar</li> <li>This truss design ref</li> </ol>	I connection (by others) of truss to beari and in accordance with the 2018 Internat	nph; TCDL=6.0psf; BCDL= 0-10-8 to 2-1-8, Interior(1) 2 0-4-7, Interior(1) 30-4-7 to - orces & MWFRS for reactio ve load nonconcurrent with ANSI/TPI 1 angle to grain for ng plate capable of withstar onal Residential Code sect	2-1-8 to 17-10-8, Exteri 44-10-8 zone; cantileve ns shown; Lumber DOI any other live loads. prmula. Building design nding 272 lb uplift at joi ions R502.11.1 and R8	or(2R) 17-10-8 to er left and right exp L=1.60 plate grip ner should verify nt 2 and 274 lb upl 302.10.2 and	ift at	PE-2001018807 March 11,2021	
WARNING - Verify Design valid for use a truss system. Befor building design. Bra is always required fabrication, storade, i	v design parameters and READ NOTES ON THIS AN only with MITeWe connectors. This design is based re use, the building designer must verify the applica- cing indicated is to prevent buckling of individual tru- r stability and to prevent collapse with possible perside delivery, erection and bracing of trusses and truss s available from Truss Plate Institute, 2670 Crain His	only upon parameters shown, and bility of design parameters and pro ss web and/or chord members onl onal injury and property damage. vystems, see <b>ANS//TPI1</b> (	is for an individual building c sperly incorporate this design y. Additional temporary and For general guidance regard Quality Criteria. DSB-89 and	omponent, not i into the overall permanent bracing ling the	onent	16023 Swingley Ridge Rd Chesterfield, MO 63017	

Jo	b	Truss	Truss Type	Qty	Ply	Summit/24 Woodside
						I45148942
27	46055	A12	Hip	1	1	
						Job Reference (optional)
B	Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.	430 s Feb	12 2021 MiTek Industries, Inc. Thu Mar 11 08:27:07 2021 Page 2
ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-sTksLYqP1dT9k2dUo2Jt?mJZvNQxl85s2					NBnxzu4zl-sTksLYqP1dT9k2dUo2Jt?mJZvNQxI85s2m1s_Nzc2X2	

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

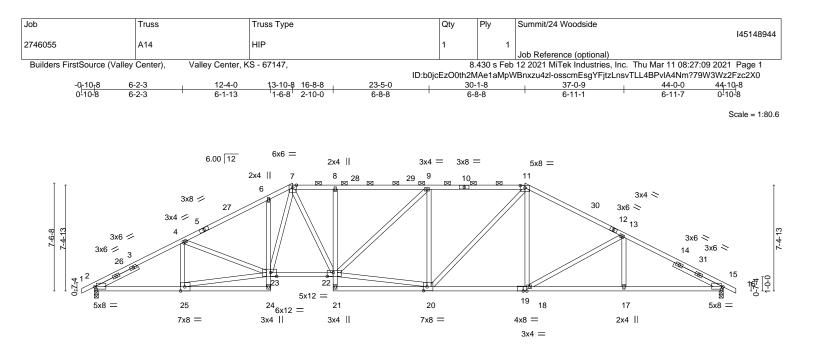
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 **ANSUTPI1 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

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

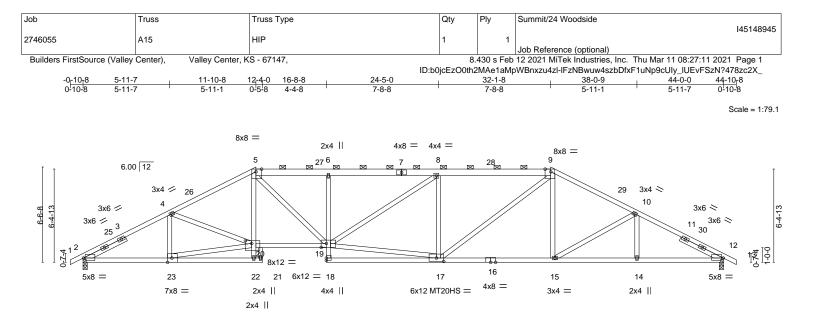


	6-2-3 12-4-0	3-10-8 16-8-8 2	23-5-0 , 30-	1-8 , 37-0-9	44-0-0					
	6-2-3 6-1-13	1-6-8 2-10-0 6	6-8-8 6-8		6-11-7					
Plate Offsets (X,Y)	[2:0-1-7,0-2-0], [11:0-4-0,0-1-15], [15:	0-1-7,0-2-0], [19:0-3-0,0-0-	-0], [20:0-3-0,0-3-4], [22:0·	5-0,0-3-4], [23:0-5-0,0-3-4], [2	5:0-3-8,Edge]					
LOADING(psf)TCLL25.0TCDL20.0BCLL0.0BCDL10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.95 BC 0.84 WB 0.95 Matrix-S	Vert(LL) -0.26	(loc) l/defl L/d 22-23 >999 240 22-23 >880 180 15 n/a n/a	PLATES MT20 Weight: 231 lb	<b>GRIP</b> 197/144 FT = 20%				
5-7,11 BOT CHORD 2x4 SF 2-24,1 WEBS 2x4 SF	TOP CHORD       2x4 SPF 1650F 1.5E *Except*       TOP CHORD       Structural wood sheathing directly applied, except         5-7,11-12: 2x4 SP 2400F 2.0E       2-0 oc purlins (2-20 max.): 7-11.         BOT CHORD       2x4 SPF No.2 *Except*       BOT CHORD         2-24,15-19: 2x4 SP 2400F 2.0E, 22-23: 2x4 SPF 1650F 1.5E       BOT CHORD       Rigid ceiling directly applied or 10-0 oc bracing.         WEBS       2x4 SPF No.2       2x4 SPF No.2       Structural wood sheathing directly applied or 10-0 oc bracing.									
Max H Max L	ze) 2=0-3-8, 15=0-3-8 Horz 2=115(LC 12) Jplift 2=-279(LC 12), 15=-279(LC 13) Grav 2=2496(LC 1), 15=2496(LC 1)									
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-4=-4361/462, 4-6=-4455/500, 6-7=-4413/572, 7-8=-4082/474, 8-9=-4066/474, 9-11=-3739/440, 11-13=-3701/420, 13-15=-4342/465         BOT CHORD       2-25=-436/3692, 6-23=-385/151, 22-23=-304/3648, 8-22=-541/147, 18-20=-175/3192, 17-18=-317/3699, 15-17=-317/3699         WEBS       4-25=-500/128, 23-25=-425/3530, 4-23=-70/399, 20-22=-258/3581, 9-22=-148/526, 9-20=-1058/224, 11-20=-169/956, 11-18=-36/477, 13-18=-589/189, 13-17=0/263, 7-23=-218/1038, 7-22=-172/1092										
<ol> <li>Wind: ASCE 7-16; MWFRS (envelope) 18-1-7, Interior(1) 1; end vertical left an DOL=1.60</li> <li>Provide adequate d</li> <li>This truss has been</li> <li>Provide mechanical joint 15.</li> <li>This truss is design- referenced standard</li> </ol>	re loads have been considered for this Vult=115mph (3-second gust) Vasd=9 <sup>-</sup> ) gable end zone and C-C Exterior(2E) 8-1-7 to 30-1-8, Exterior(2R) 30-1-8 to nd right exposed;C-C for members and drainage to prevent water ponding. In designed for a 10.0 psf bottom chord I connection (by others) of truss to bea and in accordance with the 2018 Interna d ANSI/TPI 1. presentation does not depict the size of	mph; TCDL=6.0psf; BCDL -0-10-8 to 2-1-8, Interior(1 34-4-7, Interior(1) 34-4-7 tr forces & MWFRS for react live load nonconcurrent wit ring plate capable of withst ttional Residential Code se	<ol> <li>2-1-8 to 13-10-8, Exterio to 44-10-8 zone; cantilever tions shown; Lumber DOL ith any other live loads. tanding 279 lb uplift at join ections R502.11.1 and R80</li> </ol>	r(2R) 13-10-8 to left and right exposed =1.60 plate grip t 2 and 279 lb uplift at 02.10.2 and	SCHIE OF SCHIE OF SEV SEV NEW PE-200	I M. TER BER 1018807				



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

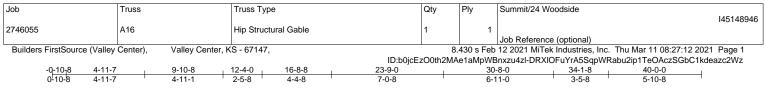
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



5	5-11-7 <u>11-10-8</u> 5-11-7 <u>5-11-1</u>	0-5-8 4-4-8	24-5-0 7-8-8	32-1-8 7-8-8	5-11-1 5-	4-0-0 -11-7	
Plate Offsets (X,Y)	[2:0-1-7,0-2-0], [5:0-4-10,Edge	l, [9:0-4-10,Edge], [12:0-1-7,0-2-0	0], [17:0-6-0,0-2-12], [19:0	-4-4,0-3-4], [23:0-3-8,E	dge], [24:0-5-4,0-2-4]		
LOADING         (psf)           TCLL         25.0           TCDL         20.0           BCLL         0.0           BCDL         10.0	SPACING- 2-0 Plate Grip DOL 1.1 Lumber DOL 1.1 Rep Stress Incr YE Code IRC2018/TPI2014	5 TC 0.71 5 BC 0.92 S WB 0.91	<b>DEFL.</b> in Vert(LL) -0.28 Vert(CT) -0.64 Horz(CT) 0.26	6 >999 24 17-18 >818 18	0 MT20 0 MT20HS	<b>GRIP</b> 197/144 148/108 Ib FT = 20%	
BRACING-         TOP CHORD       2x4 SP 2400F 2.0E *Except*         5-7,7-9: 2x6 SPF No.2         BOT CHORD       2x4 SPF No.2 *Except*         2-21,12-16: 2x4 SP 2400F 2.0E, 19-20: 2x4 SPF 1650F 1.5E         WEBS       2x4 SPF No.2 *Except*         17-19: 2x4 SPF 1650F 1.5E         SLIDER       Left 2x4 SPF No.2 -t 3-2-12, Right 2x4 SPF No.2 -t 3-2-12    BRACING- TOP CHORD Structural wood sheathing directly applied or 2-9-14 oc purlins, except 2-0-0 oc purlins (2-10-9 max.): 5-9. Reactions. (size) 2=0-3-8, 12=0-3-8							
Max L Max C FORCES. (lb) - Max. TOP CHORD 2-4= 9-10 BOT CHORD 2-23	-4396/461, 4-5=-4639/503, 5-6= )=-3880/442, 10-12=-4375/472 )=-421/3724, 19-20=-357/4081, (		-4409/478,				
14-15=-333/3705, 12-14=-333/3705         WEBS       4-23=-542/131, 5-19=-233/1420, 17-19=-378/4165, 8-19=-182/725, 8-17=-1226/265, 9-17=-229/1400, 9-15=-16/398, 10-15=-344/146, 5-20=-58/648, 20-23=-418/3689, 4-20=-100/565         4-20=-100/565       4-20=-100/565							
<ol> <li>Wind: ASCE 7-16; MWWFRS (envelope) 16-1-7, Interior(1) 11; end vertical left an DOL=1.60</li> <li>Provide adequate d</li> <li>All plates are MT20</li> <li>This truss has been</li> <li>Provide mechanical joint 12.</li> <li>This truss is design referenced standard</li> </ol>	) gable end zone and C-C Exteri 6-1-7 to 32-1-8, Exterior(2R) 32 dd right exposed;C-C for membe frainage to prevent water pondin plates unless otherwise indicate designed for a 10.0 psf bottom I connection (by others) of truss ed in accordance with the 2018 d ANSI/TPI 1.	asd=91mph; TCDL=6.0psf; BCDL or(2E) -0-10-8 to 2-1-8, Interior(1 -1-8 to 36-4-7, Interior(1) 36-4-7 t rs and forces & MWFRS for reac g.	I) 2-1-8 to 11-10-8, Exterior to 44-10-8 zone; cantileventions shown; Lumber DOL th any other live loads. tanding 277 lb uplift at joir ections R502.11.1 and R8	or(2R) 11-10-8 to r left and right exposed =1.60 plate grip nt 2 and 281 lb uplift at 02.10.2 and	POLICE STORES	OF MISSOLUTION COTT M. SEVIER UMBER 0001018807	
						<b>_</b>	

Mitek\* 16023 Swingley Ridge Rd Chesterfield, MO 63017

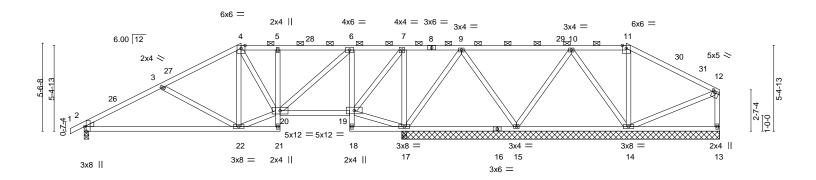
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



Scale = 1:72.5

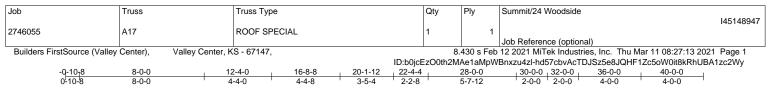
March 11,2021

**MiTek**<sup>®</sup> 16023 Swingley Ridge Rd Chesterfield, MO 63017

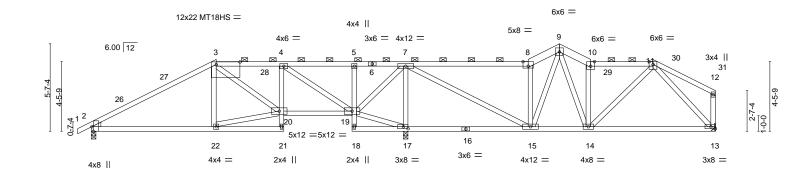


F	9-10-8 12-4-0 9-10-8 2-5-8	+ <u>16-8-8</u> + <u>20-3</u> 4-4-8 + <u>3-7-</u>		<u>34-1-8</u> 6-11-0	40-0-0 5-10-8			
Plate Offsets (X,Y)	[2:0-3-8,Edge], [12:0-2-0,0-1-8]							
LOADING         (psf)           TCLL         25.0           TCDL         20.0           BCLL         0.0           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	<b>CSI.</b> TC 0.71 BC 0.61 WB 0.54 Matrix-AS	Vert(LL) -0.14	(loc) l/defl L/d 22-25 >999 240 22-25 >814 180 17 n/a n/a	PLATES         GRIP           MT20         197/144           Weight: 189 lb         FT = 20%			
BOT CHORD 2x4 SP	PF No.2 PF No.2 PF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing 2-0-0 oc purlins (6-0-0 max Rigid ceiling directly applied				
(lb) - Max H Max U	earings 20-0-0 except (jt=length) 2=0-3- lorz 2=125(LC 11)  plift All uplift 100 lb or less at joint(s) 1 rrav All reactions 250 lb or less at joint 17=2105(LC 1), 15=532(LC 26)	3, 15 except 2=-135(LC 12	// // //	,				
TOP CHORD         2-3=- 9-10=           BOT CHORD         2-22=           WEBS         3-22=	9-10=-47/264 BOT CHORD 2-22=-212/1173, 5-20=-336/95, 6-19=-1067/221, 15-17=-323/118							
<ol> <li>Wind: ASCE 7-16; V MWFRS (envelope) Interior(1) 14-1-7 to vertical left and right</li> <li>Provide adequate dr</li> <li>This truss has been</li> <li>Provide mechanical (jt=lb) 2=135, 14=11</li> <li>This truss is design referenced standard</li> <li>This truss design red sheetrock be applied</li> </ol>	ed in accordance with the 2018 Internati	nph; TCDL=6.0psf; BCDL= -10-8 to 2-1-8, Interior(1) 2 terior(1) 38-4-7 to 39-10-4 & MWFRS for reactions sho re load nonconcurrent with ng plate capable of withstar onal Residential Code sect Il wood sheathing be applie	2-1-8 to 9-10-8, Exterior zone; cantilever left and own; Lumber DOL=1.60 any other live loads. nding 100 lb uplift at join ions R502.11.1 and R80 d directly to the top cho	2R) 9-10-8 to 14-1-7, I right exposed ; end plate grip DOL=1.60 t(s) 13, 15 except 12.10.2 and rd and 1/2" gypsum	SCOTT M. SEVIER NUMBER PE-2001018807			

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



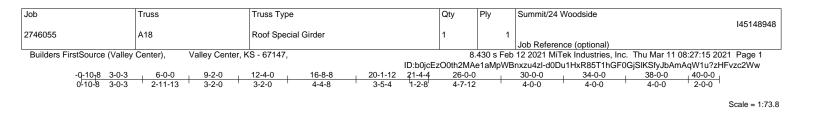
Scale = 1:73.8



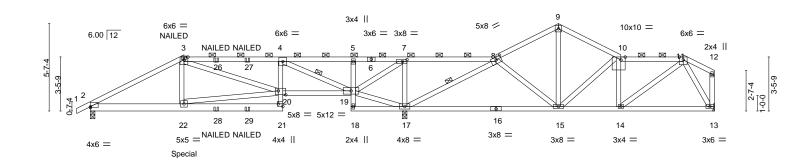
<b> </b>	8-0-0 12- 8-0-0 4-4			<u>28-0-0</u> 7-8-8	<u>32-0-0</u> 4-0-0	36-0-0 4-0-0	40-0-0	
Plate Offsets (X,Y)	[2:0-3-8,Edge], [3:1-6-4,0-2-0], [8:			7-0-0	4-0-0	4-0-0	4-0-0	
LOADING         (psf)           TCLL         25.0           TCDL         20.0           BCLL         0.0           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.86 BC 0.60 WB 0.69 Matrix-AS	Vert(CT) -0	in (loc) l/defl 0.11 13-14 >999 0.23 13-14 >999 0.04 13 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 190	<b>GRIP</b> 197/144 197/144 Ib FT = 20%	
LUMBER-       TOP CHORD       2x4 SPF No.2 *Except*       TOP CHORD       Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-5-15 max.): 3-8, 10-11.         BOT CHORD       2x4 SPF No.2 *Except*       BOT CHORD       Rigid ceiling directly applied.         WEBS       2x4 SPF No.2       External       BOT CHORD       Rigid ceiling directly applied.         WEDGE       Left: 2x4 SPF No.2       External       External       External								
Max H Max U	e) 2=0-3-8, 17=0-3-8, 13=Mecha lorz 2=127(LC 11) lplift 2=-152(LC 12), 17=-332(LC 1 Srav 2=998(LC 25), 17=2603(LC 1	e), 13=-112(LC 13)						
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-1260/202, 3-4=-969/217, 7-8=-748/157, 8-9=-909/200, 9-10=-1001/194, 10-11=-877/157         BOT CHORD       2-22=-164/1002, 4-20=-20/339, 19-20=-160/998, 15-17=-847/132, 14-15=-80/645, 13-14=-108/610         WEBS       20-22=-158/983, 4-19=-1231/182, 17-19=-851/157, 7-19=-151/1014, 7-17=-2172/353, 7-15=-202/1800, 8-15=-937/217, 9-15=-101/265, 9-14=-104/610, 10-14=-718/148, 11-14=-10/378, 11-13=-811/141								
<ol> <li>Wind: ASCE 7-16; MWFRS (envelope) Interior(1) 11-0-0 to to 39-10-4 zone; cau reactions shown; Lu</li> <li>Provide adequate d</li> <li>All plates are MT20</li> <li>This truss has been</li> <li>Refer to girder(s) fo</li> <li>Provide mechanical 2=152, 17=332, 13=</li> <li>This truss is designer referenced standard</li> <li>This truss design re sheetrock be applie</li> </ol>	ed in accordance with the 2018 Int	e91mph; TCDL=6.0psf; BCI E) -0-10-8 to 2-1-8, Interior 0, Interior(1) 32-0-0 to 36-0 vertical left and right expos 30 rd live load nonconcurrent earing plate capable of with mational Residential Code stural wood sheathing be a	or(1) 2-1-8 to 8-0-0, Exter 0-0, Exterior(2R) 36-0-0 sed;C-C for members an with any other live loads thstanding 100 lb uplift at a sections R502.11.1 and applied directly to the top	ior(2R) 8-0-0 to 11-0 to 39-0-0, Interior(1) d forces & MWFRS i ; t joint(s) except (jt=lb I R802.10.2 and chord and 1/2" gyps	39-0-0 for ))	PE-2	OF MISSOLAR COTT M. SEVIER COMBER COM	

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





5x5 =



3-	0-3 6-0-0	12-4-0 16-8-8	20-1-12	26-0-0	30-0-0	J 34-0-	0 38-0-0	40-0-0
	0-3 2-11-13	6-4-0 4-4-8	3-5-4	5-10-4	4-0-0	4-0-0	) 4-0-0	2-0-0
Plate Offsets (X,Y)	[2:0-0-0,0-0-11], [7:0-3-8,0	-1-8], [8:0-4-0,0-2-0], [10:0-3-6,	Edge], [20:0-5-12,	0-3-0], [21:Edge,0	0-3-8]			
LOADING         (psf)           TCLL         25.0           TCDL         20.0           BCLL         0.0           BCDL         10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI	2-0-0         CSI.           1.15         TC         0.88           1.15         BC         0.65           NO         WB         0.50           2014         Matrix-MS	DEF Veri Veri Hor:	(LL) -0.15 15- (CT) -0.31 15-	-17 >999	L/d 240 180 n/a	<b>PLATES</b> MT20 Weight: 186 lb	<b>GRIP</b> 197/144 FT = 20%
3-6,6-3 BOT CHORD 2x4 SI 2-21:2	PF No.2 *Except* 8: 2x4 SPF 1650F 1.5E PF No.2 *Except* 2x6 SPF No.2, 16-18: 2x4 S PF No.2	P 2400F 2.0E	TOF	ex CHORD Rig	cept end vertie	cals, and 2-0- ctly applied o	ectly applied or 3-3-2 0 oc purlins (3-3-10 m r 6-0-0 oc bracing. 19, 8-17	
Max H Max L Max C FORCES. (Ib) - Max.		(LC 9), 17=-493(LC 8)		84/58.				
9-10	0=-674/41, 10-11=-858/79							
BOT CHORD 2-22=-456/2071, 21-22=-27/286, 4-20=-12/488, 19-20=-412/1973, 15-17=-2 14-15=-75/867, 13-14=-63/377 WEBS 3-22=0/442, 4-19=-2751/567, 8-15=-64/612, 9-15=-37/268, 10-15=-509/114 10-14=-315/45, 7-17=-1378/310, 17-19=-1916/390, 7-19=-317/1600, 8-17=- 11-14=-18/639, 11-13=-712/106, 20-22=-434/1788								
NOTES								
<ol> <li>Wind: ASCE 7-16; MWFRS (envelope) grip DOL=1.60</li> <li>Provide adequate d</li> <li>This truss has been</li> <li>Refer to girder(s) fo</li> <li>Provide mechanical 2=290, 17=493.</li> <li>This truss is design referenced standard</li> <li>Graphical purlin rep</li> </ol>	) gable end zone; cantilever rainage to prevent water por designed for a 10.0 psf bo r truss to truss connections I connection (by others) of t ed in accordance with the 2 d ANSI/TPI 1. resentation does not depict	st) Vasd=91mph; TCDL=6.0psf; left and right exposed ; end ver onding. ttom chord live load nonconcurre russ to bearing plate capable of 018 International Residential Co the size or the orientation of the	tical left and right ent with any other withstanding 100 ode sections R502 e purlin along the	exposed; Lumber live loads. b uplift at joint(s) .11.1 and R802.1	DOL=1.60 pla 13 except (jt= 0.2 and		SCO SCO	MISSOUTH TT M. VIER
	9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines. 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 458 lb down and 150 lb up at							

 Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 458 lb down and 150 lb up at 6-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

#### LOAD CASE(S) Standard

#### Continued on page 2

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

E

March 11,2021

RSSIONAL

Job	Truss	Truss Type	Qty	Ply	Summit/24 Woodside
					I45148948
2746055	A18	Roof Special Girder	1	1	
					Job Reference (optional)
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.	430 s Feb	12 2021 MiTek Industries, Inc. Thu Mar 11 08:27:15 2021 Page 2

ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-d0Du1HxR85T1hGF0GjSIKSfyJbAmAqW1u?zHFvzc2Ww

LOAD CASE(S) Standard

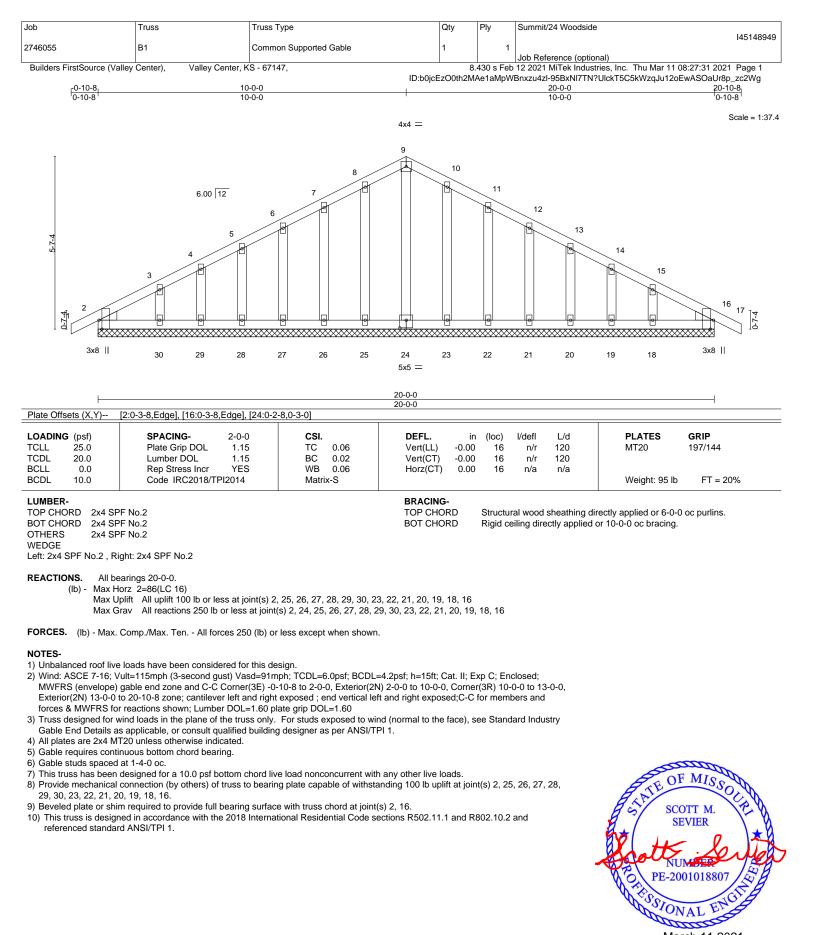
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-3=-90, 3-8=-90, 8-9=-90, 9-10=-90, 10-11=-90, 11-12=-90, 21-23=-20, 19-20=-20, 13-18=-20 Concentrated Loads (lb)

Vert: 3=-114(F) 22=-458(F) 26=-114(F) 27=-114(F) 28=-59(F) 29=-59(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 prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

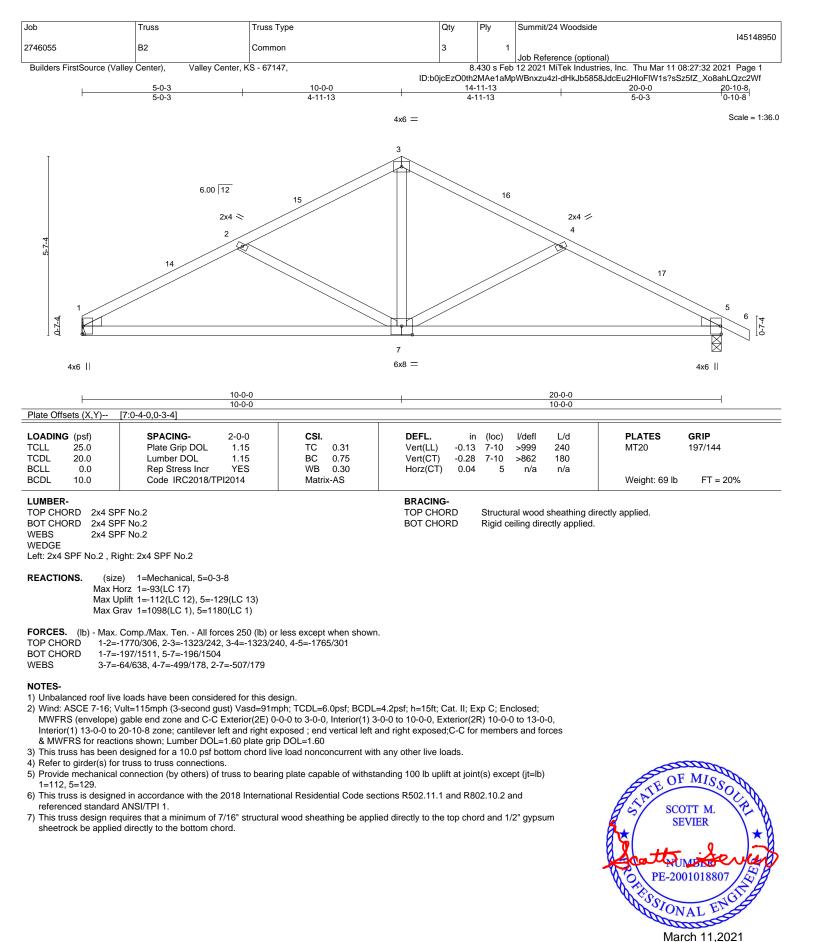




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

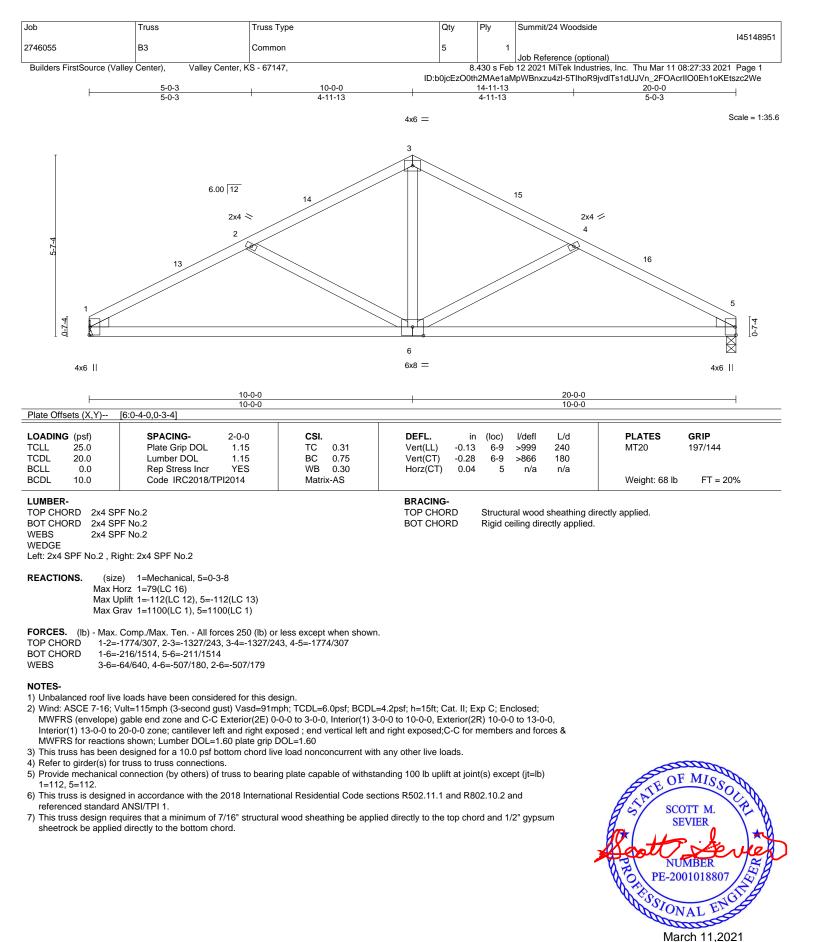


March 11,2021



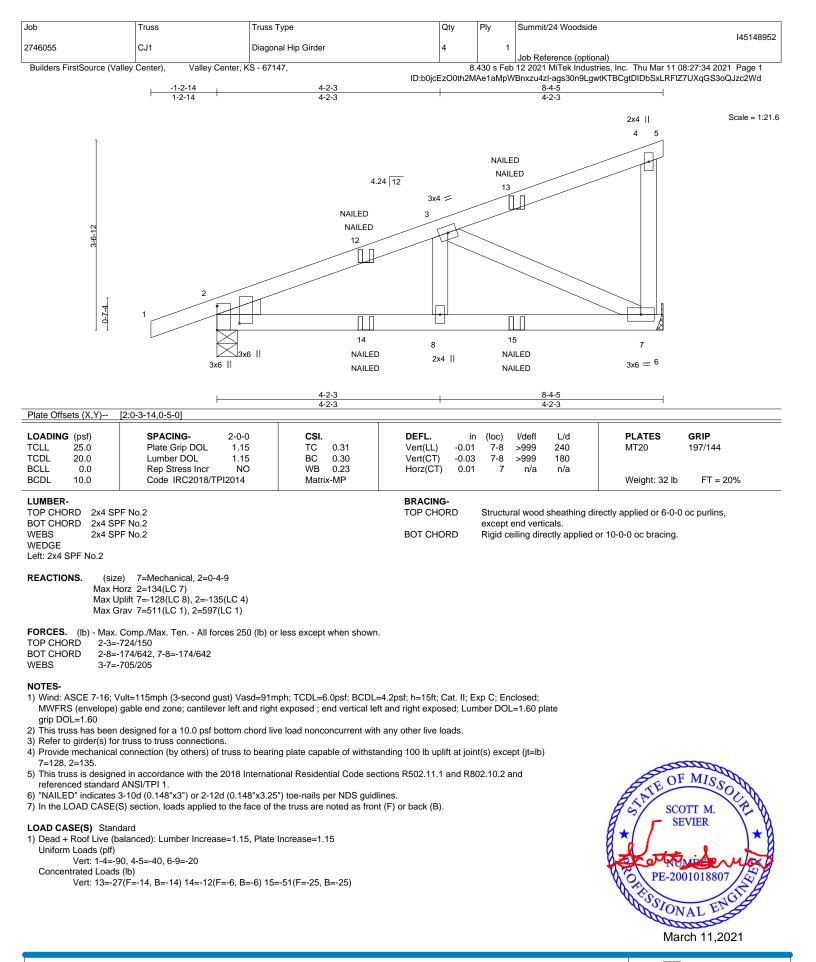
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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





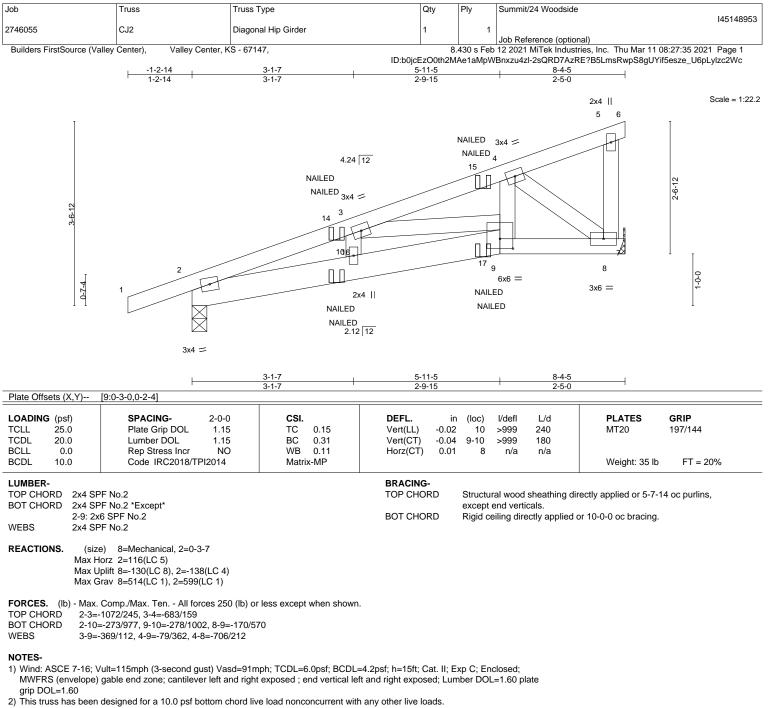
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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





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 sand truss system. See **MSIVTPI1 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



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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=130, 2=138.

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

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 3-10d (0.148"x3") or 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

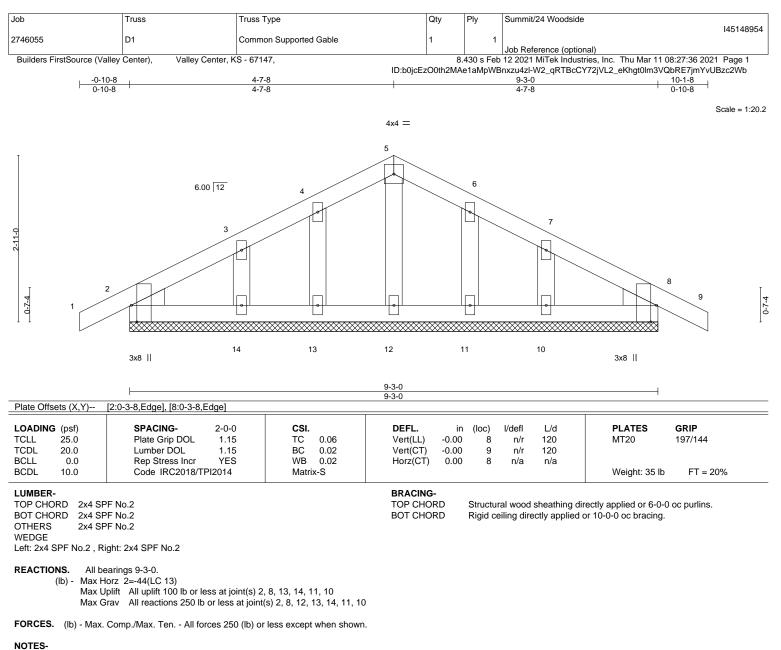
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-90, 5-6=-40, 9-11=-20, 7-9=-20

Concentrated Loads (lb)

Vert: 15=-4(F=-2, B=-2) 16=-15(F=-8, B=-8) 17=-76(F=-38, B=-38)







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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 1-11-8, Exterior(2N) 1-11-8 to 4-7-8, Corner(3R) 4-7-8 to 7-7-8, Exterior(2N) 7-7-8 to 10-1-8 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.

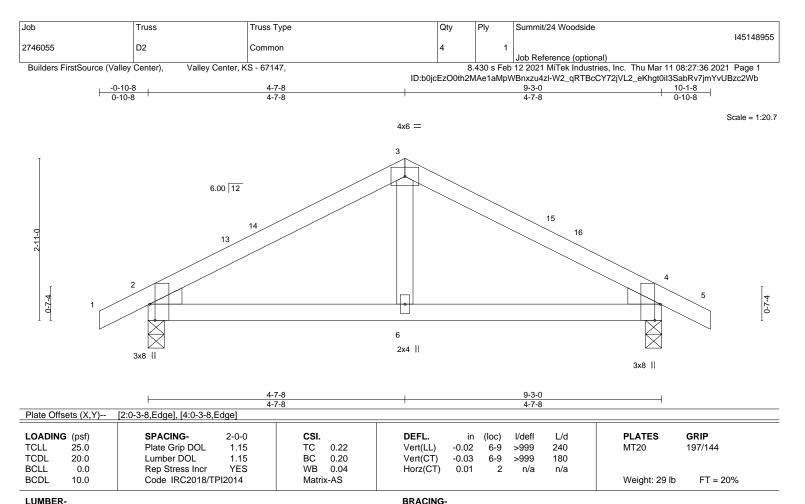
 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

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 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



TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

#### LUMBER-

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

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8 Max Horz 2=-44(LC 13) Max Uplift 2=-69(LC 12), 4=-69(LC 13)

Max Grav 2=587(LC 1), 4=587(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-637/220. 3-4=-637/220

BOT CHORD 2-6=-93/500, 4-6=-93/500

#### 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=15ft; 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 4-7-8, Exterior(2R) 4-7-8 to 7-7-8, Interior(1) 7-7-8 to 10-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

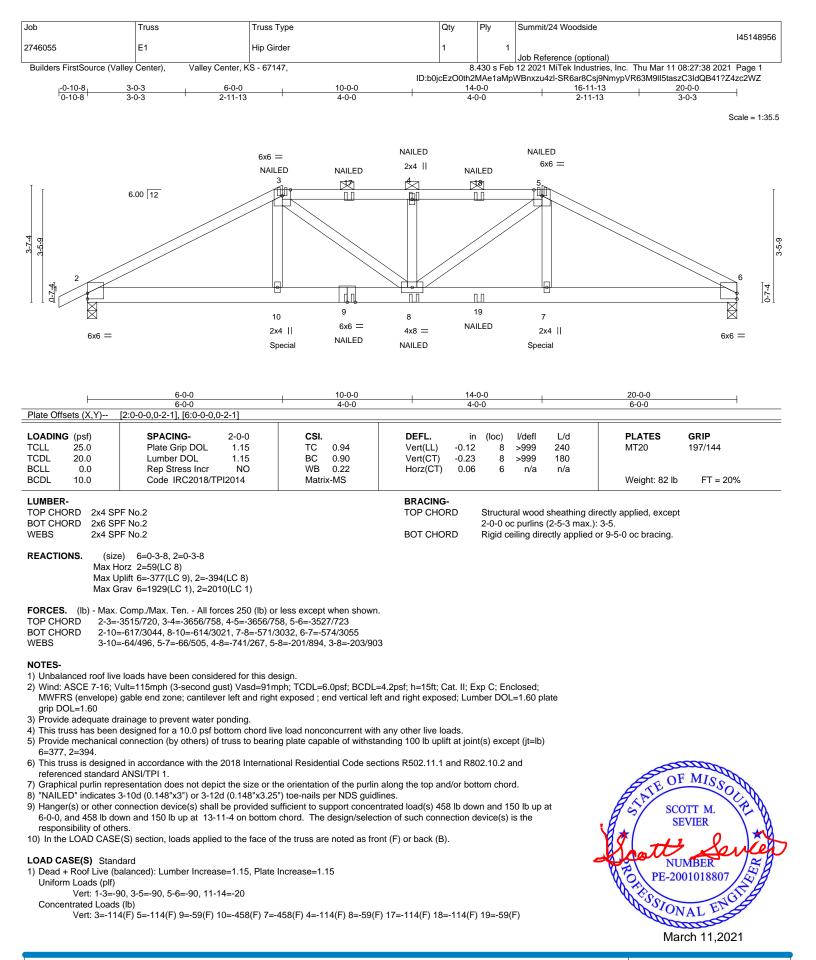
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

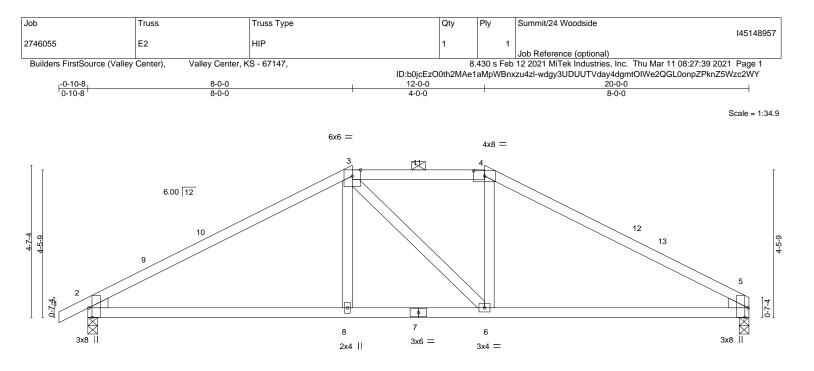


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



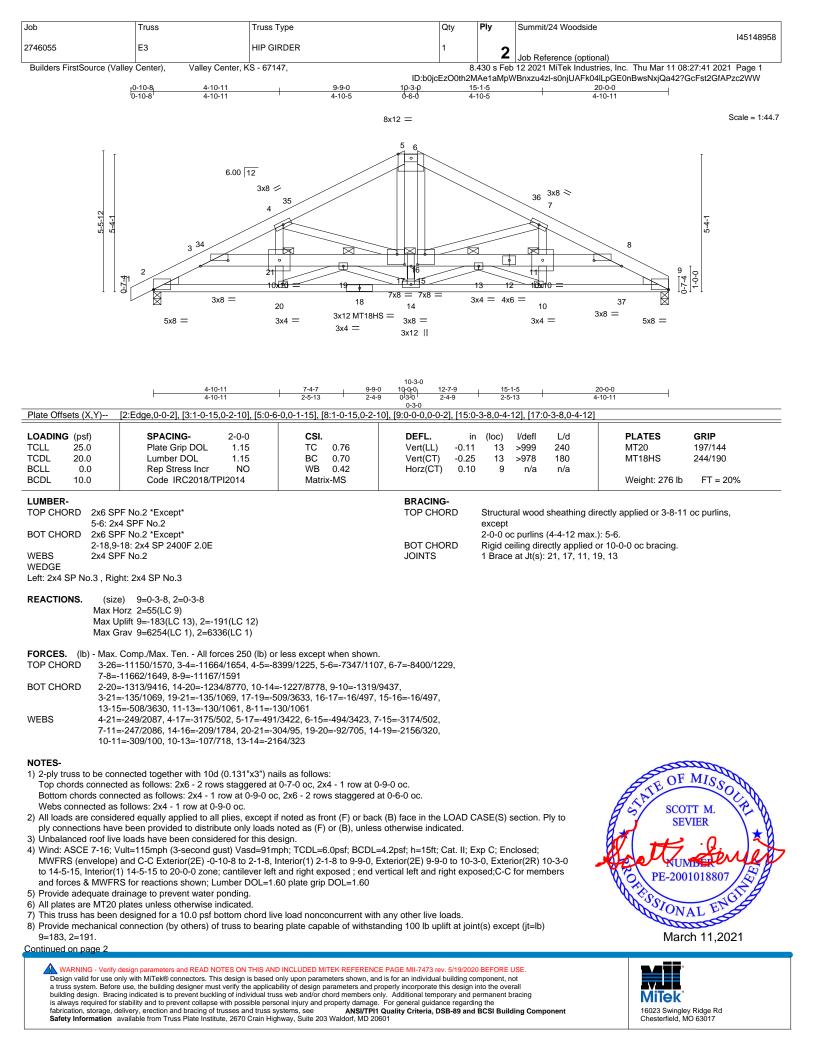






	<u>8-0-0</u> 8-0-0		<u>12-0-0</u> 4-0-0			20-0-0 8-0-0	
Plate Offsets (X,Y)	[2:0-3-8,Edge], [4:0-4-0,0-1-15], [5:0-3-8	3,Edge]	4-0-0			8-0-0	
LOADING         (psf)           TCLL         25.0           TCDL         20.0           BCLL         0.0           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.87 BC 0.73 WB 0.10 Matrix-S	DEFL.         in           Vert(LL)         -0.12           Vert(CT)         -0.30           Horz(CT)         0.04	5-6 >999	L/d 240 180 n/a	<b>PLATES</b> MT20 Weight: 73 lb	<b>GRIP</b> 197/144 FT = 20%
	F No.2		BRACING- TOP CHORD BOT CHORD	2-0-0 oc purlin	s (4-7-15 max.	rectly applied or 2-2-0 ): 3-4. or 10-0-0 oc bracing.	oc purlins, except
Max H Max U Max G	e) 2=0-3-8, 5=0-3-8 orz 2=71(LC 12) plift 2=-134(LC 12), 5=-114(LC 13) rav 2=1178(LC 1), 5=1082(LC 1)						
TOP CHORD 2-3=- BOT CHORD 2-8=-	Comp./Max. Ten All forces 250 (lb) or 1628/219, 3-4=-1286/248, 4-5=-1594/2 113/1287, 6-8=-115/1282, 5-6=-101/129 //262, 4-6=-1/262	16	ι.				
<ol> <li>Wind: ASCE 7-16; V MWFRS (envelope) Exterior(2R) 12-0-0 exposed;C-C for mei</li> <li>Provide adequate dr</li> <li>This truss has been</li> <li>Provide mechanical 2=134, 5=114.</li> <li>This truss is designe referenced standard</li> </ol>	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 16-2-15, Interior(1) 16-2-15 to 19-10-4 mbers and forces & MWFRS for reactio ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv connection (by others) of truss to bearin and in accordance with the 2018 Internation ANSI/TPI 1. esentation does not depict the size or the	ph; TCDL=6.0psf; BCDL= -10-8 to 2-1-8, Interior(1) 4 zone; cantilever left and ns shown; Lumber DOL= e load nonconcurrent with g plate capable of withsta onal Residential Code sec	2-1-8 to 8-0-0, Exterior(2 I right exposed ; end verti 1.60 plate grip DOL=1.60 h any other live loads. anding 100 lb uplift at join ctions R502.11.1 and R80	E) 8-0-0 to 12- cal left and right t(s) except (jt=lt 02.10.2 and	<b>)-0</b> ,	STATE OF	MISSOUR DTT M. EVIER





Job	Truss	Truss Type	Qty	Ply	Summit/24 Woodside
					145148958
2746055	E3	HIP GIRDER	1	2	
				<b>_</b>	Job Reference (optional)
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8.	430 s Feb	12 2021 MiTek Industries, Inc. Thu Mar 11 08:27:41 2021 Page 2
		ID:b0jc	EzO0th2M	Ae1aMpW	Bnxzu4zl-s0njUAFk04lLpGE0nBwsNxjQa42?GcFst2GfAPzc2WW

# NOTES-

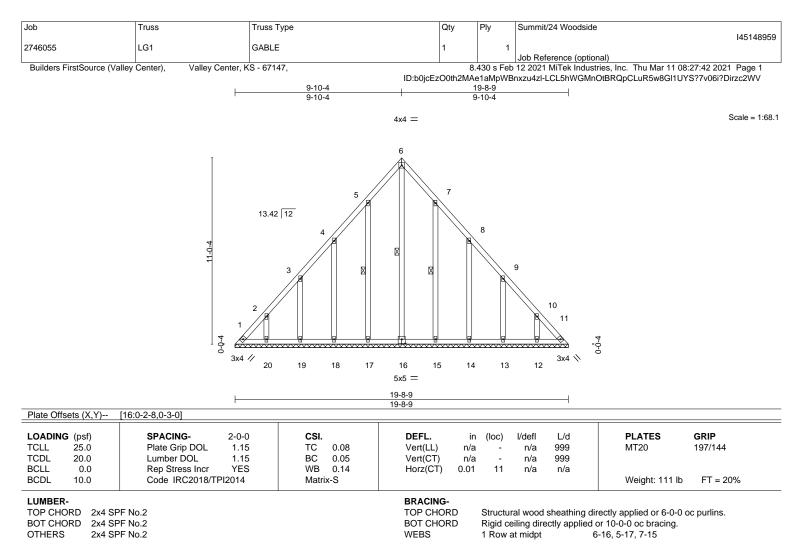
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

# LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-5=-90, 5-6=-90, 6-9=-90, 22-25=-20, 28-31=-630(F=-610)





# **REACTIONS.** All bearings 19-8-9.

(lb) - Max Horz 1=258(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 11 except 1=-112(LC 10), 17=-122(LC 12), 18=-127(LC 12), 19=-124(LC 12), 20=-122(LC 12), 15=-120(LC 13), 14=-128(LC 13), 13=-124(LC 13), 12=-122(LC 13) Max Grav All reactions 250 lb or less at joint(s) 11, 16, 18, 19, 20, 14, 13, 12 except 1=265(LC 12), 17=254(LC 12), 15=-52(LC 20)

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

TOP CHORD 1-2=-369/232, 2-3=-256/190, 10-11=-333/231

#### 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 9-10-4, Exterior(2R) 9-10-4 to 12-10-4, Interior(1) 12-10-4 to 19-4-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) Gable requires continuous bottom chord bearing.

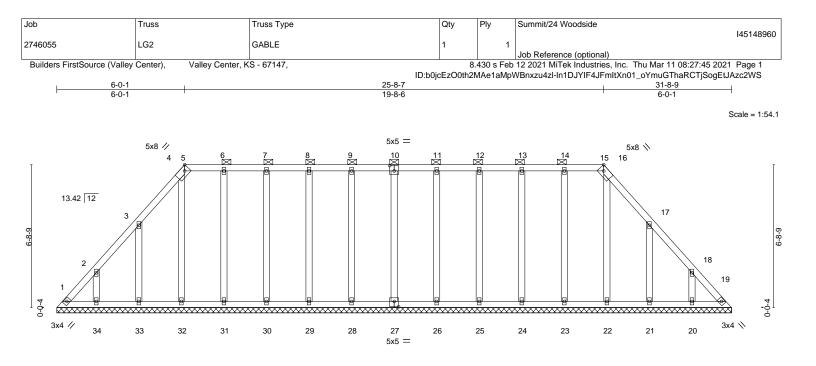
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 1=112, 17=122, 18=127, 19=124, 20=122, 15=120, 14=128, 13=124, 12=122.

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.







			31-8-9				
Plate Offsets (X,Y)	[5:0-2-10,Edge], [10:0-2-8,0-3-0], [15:0-		31-8-9 )]				
LOADING         (psf)           TCLL         25.0           TCDL         20.0           BCLL         0.0           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.06 BC 0.03 WB 0.13 Matrix-S	DEFL. i Vert(LL) n/ Vert(CT) n/ Horz(CT) 0.0	a - n/a	L/d 999 999 n/a	PLATES MT20 Weight: 167 lb	<b>GRIP</b> 197/144 FT = 20%
BOT CHORD 2x4 SI	PF No.2 PF No.2 PF No.2 PF No.2		BRACING- TOP CHORD BOT CHORD	2-0-0 oc purlins	(6-0-0 max.): 5	ctly applied or 6-0-0 o i-15. 10-0-0 oc bracing.	oc purlins, except

REACTIONS. All bearings 31-8-9.

(lb) - Max Horz 1=-156(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 19, 27, 28, 29, 30, 31, 32, 26, 25, 24, 23 except 33=-136(LC 12), 34=-119(LC 12), 21=-138(LC 13), 20=-119(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 19, 27, 28, 29, 30, 31, 32, 34, 26, 25, 24, 23, 22, 20 except 33=253(LC 19), 21=255(LC 20)

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

#### NOTES-

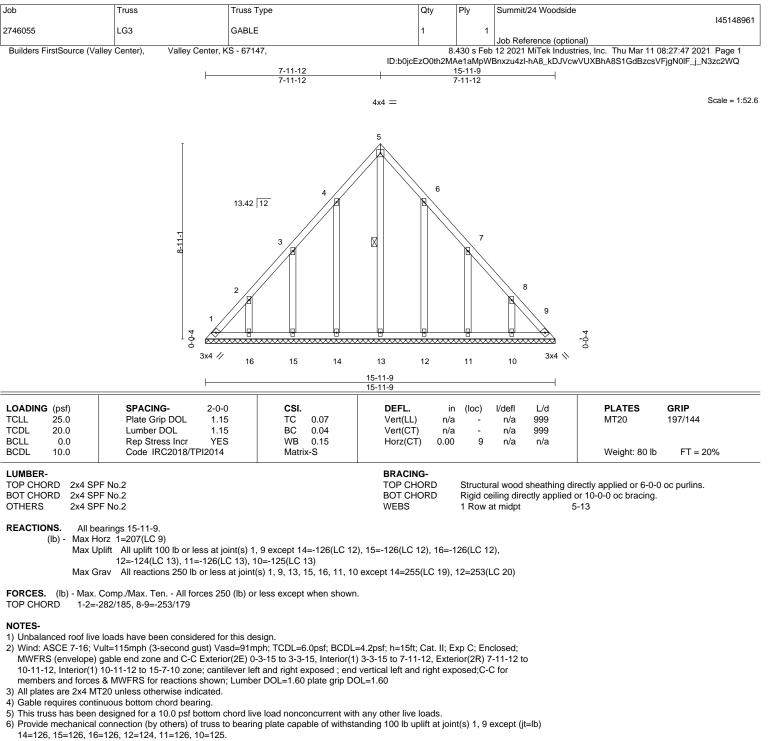
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 6-0-1, Exterior(2R) 6-0-1 to 10-3-0, Interior(1) 10-3-0 to 25-8-7, Exterior(2R) 25-8-7 to 29-10-4, Interior(1) 29-10-4 to 31-4-10 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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, 19, 27, 28, 29, 30, 31, 32, 26, 25, 24, 23 except (jt=lb) 33=136, 34=119, 21=138, 20=119.
- 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.





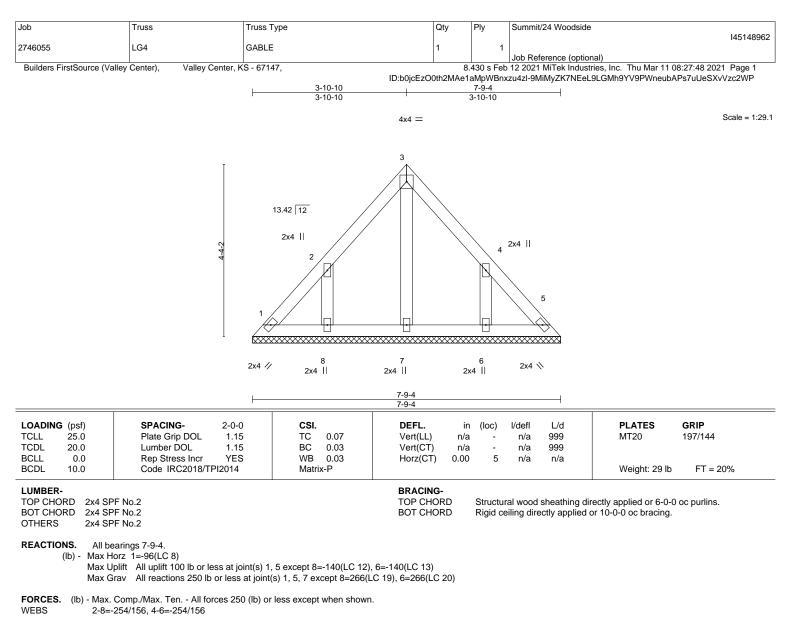
<sup>1)</sup> Unbalanced roof live loads have been considered for this design.



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.







#### 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 3-10-10, Exterior(2R) 3-10-10 to 6-10-10, Interior(1) 6-10-10 to 7-5-5 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
 3) Gable requires continuous bottom chord bearing.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=140.

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.





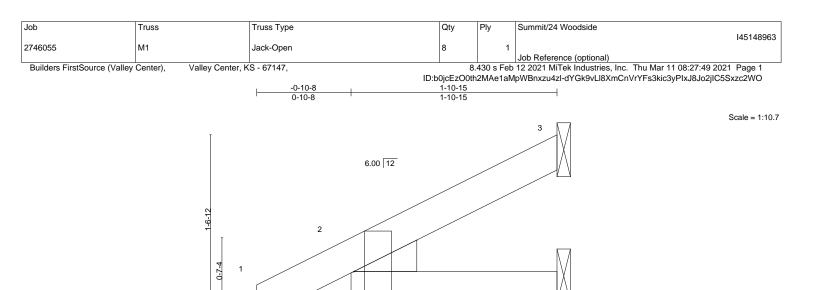


Plate Offsets (X,Y)	[2:0-3-8,Edge]		1-10-10	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00 7 >999 240 MT20 197/144	
TCDL 20.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 7 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP	Weight: 7 lb FT = 209	%

3x8 II

#### LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEDGE Left: 2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

1-10-15 1-10-15

> Structural wood sheathing directly applied or 1-10-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

4

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

Max Horz 2=49(LC 12) Max Uplift 3=-23(LC 12), 2=-22(LC 12), 4=-3(LC 12) Max Grav 3=60(LC 1), 2=201(LC 1), 4=35(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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.





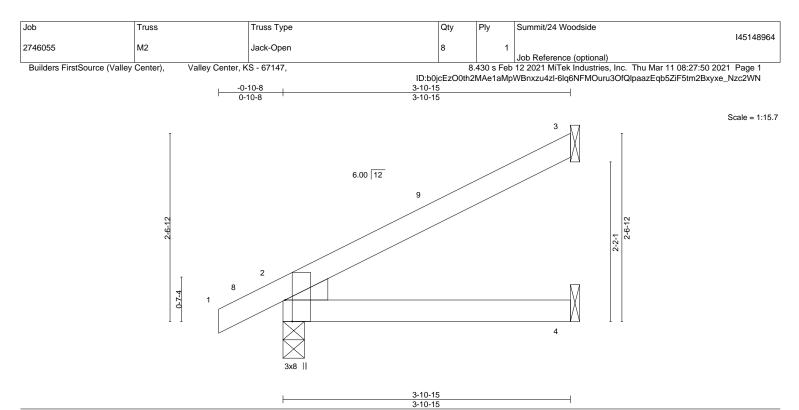


Plate Off	sets (X,Y)	[2:0-3-8,Edge]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	0.02	4-7	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.03	4-7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-MP						Weight: 11 lb	FT = 20%

# LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEDGE Left: 2x4 SPF No.2 BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-10-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

# Leit. 2A4 OFF N

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

Max Horz 2=84(LC 12) Max Uplift 3=-52(LC 12), 2=-27(LC 12), 4=-1(LC 12) Max Grav 3=143(LC 1), 2=299(LC 1), 4=76(LC 3)

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

#### NOTES-

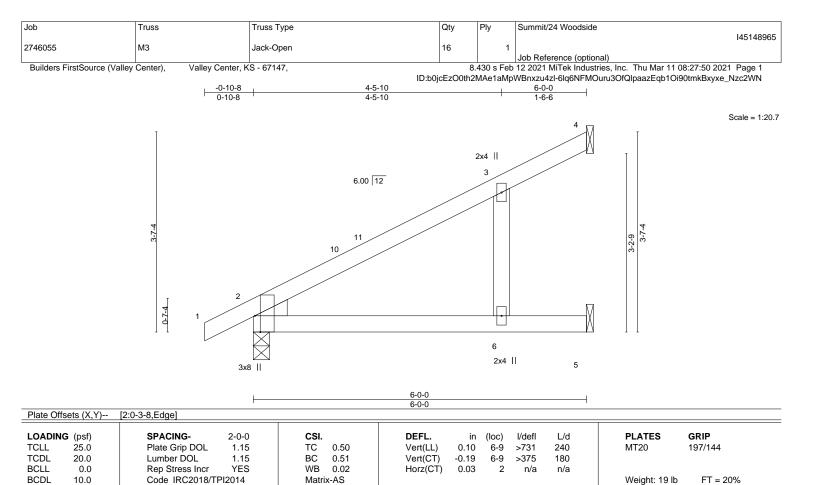
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.







BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

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

WEDGE Left: 2x4 SPF No.2

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical Max Horz 2=123(LC 12) Max Uplift 4=-42(LC 12), 2=-34(LC 12), 5=-38(LC 12) Max Grav 4=163(LC 1), 2=411(LC 1), 5=158(LC 1)

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

# NOTES-

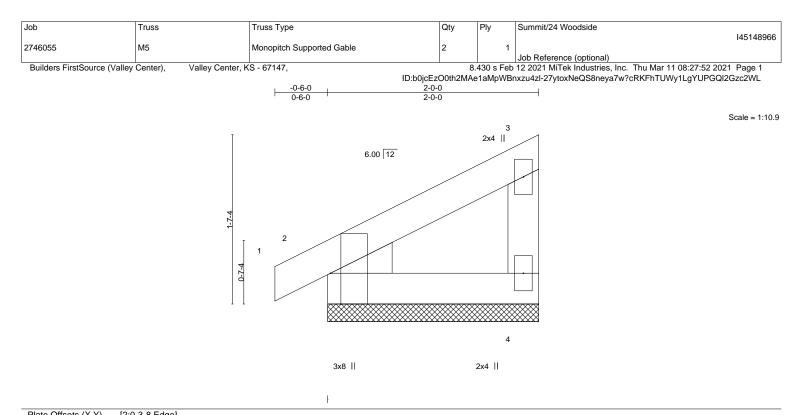
 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







OADING         (psf)           CLL         25.0           CDL         20.0           SCLL         0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.08 BC 0.03 WB 0.00	DEFL. Vert(LL) -0.0 Vert(CT) 0.0 Horz(CT) 0.0	0 1	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL 10.0 LUMBER- TOP CHORD 2x4 SF		Matrix-P	BRACING- TOP CHORD			0	Weight: 7 lb rectly applied or 2-0-	
BOT CHORD 2x4 SF	PF No.2			except	t end verti	cals.		

WEBS 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 4=2-0-0, 2=2-0-0 Max Horz 2=45(LC 9)

Max Uplift 4=-21(LC 12), 2=-19(LC 12) Max Grav 4=96(LC 1), 2=153(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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) zone; cantilever left and right exposed ; end vertical left and right

exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

3) Gable requires continuous bottom chord bearing.

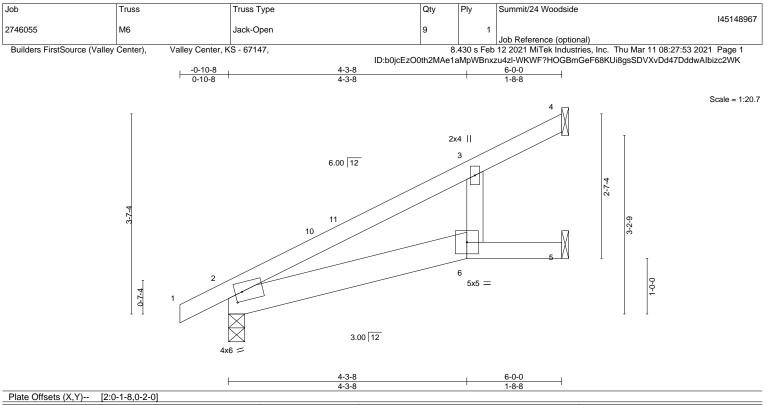
4) Gable studs spaced at 1-4-0 oc.

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) 4, 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.







LOADING (psf)SPACINGTCLL 25.0Plate GripTCDL 20.0Lumber DoBCLL 0.0Rep StressBCDL 10.0Code IRC	. 1.15	<b>CSI.</b> TC 0.7 BC 0.3 WB 0.0 Matrix-AS	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT)	in 0.10 -0.19 0.04	(loc) 6 6 5	l/defl >711 >375 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 20 lb	<b>GRIP</b> 197/144 FT = 20%
--	--------	--	--	-----------------------------	----------------------	-------------------------------	--------------------------	---------------------------------	------------------------------------

# LUMBER-

 TOP CHORD
 2x4 SPF No.2

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

 2-6: 2x6 SPF No.2

 WEBS
 2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied. Rigid ceiling directly applied.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical Max Horz 2=123(LC 12) Max Uplift 4=-86(LC 12), 2=-34(LC 12) Max Grav 4=304(LC 1), 2=411(LC 1), 5=33(LC 3)

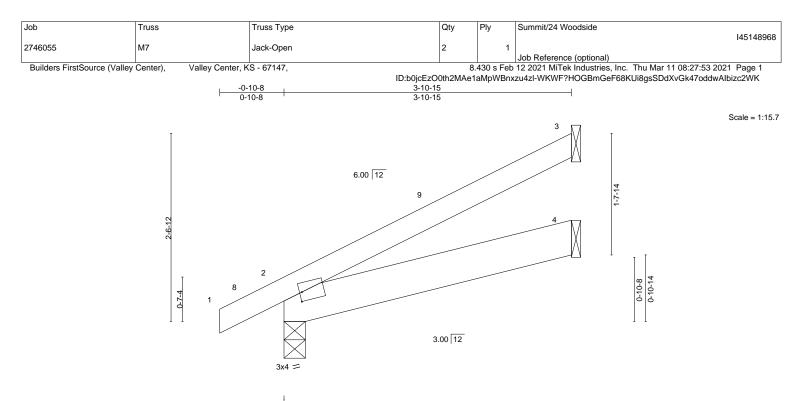
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; 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 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.







# Plate Offsets (X,Y)-- [2:0-0-6,0-1-8]

LOADIN	u /	<b>SPACING-</b> 2-0-0	CSI.	DEFL.	```	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL)		4-7	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.13	Vert(CT)	0.0.	4-7	>999	180		
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MP						Weight: 14 lb	FT = 20%

# LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x6 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-10-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=84(LC 12)

Max Uplift 3=-47(LC 12), 2=-27(LC 12), 4=-5(LC 12) Max Grav 3=128(LC 1), 2=299(LC 1), 4=89(LC 3)

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

# NOTES-

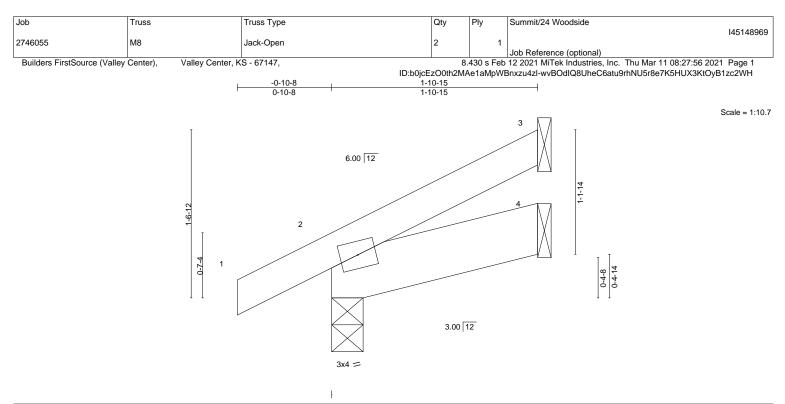
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for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







LOADIN	G (psf)	SPACING- 2-0-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.1	TC 0.07	Vert(LL)	-0.00	7	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL 1.1	BC 0.02	Vert(CT)	-0.00	7	>999	180		
BCLL	0.0	Rep Stress Incr YE	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MP						Weight: 7 lb	FT = 20%

```
LUMBER-
```

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x6 SPF No.2 BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=49(LC 12) Max Uplift 3=-21(LC 12), 2=-22(LC 12), 4=-4(LC 12) Max Grav 3=55(LC 1), 2=201(LC 1), 4=41(LC 3)

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

# NOTES-

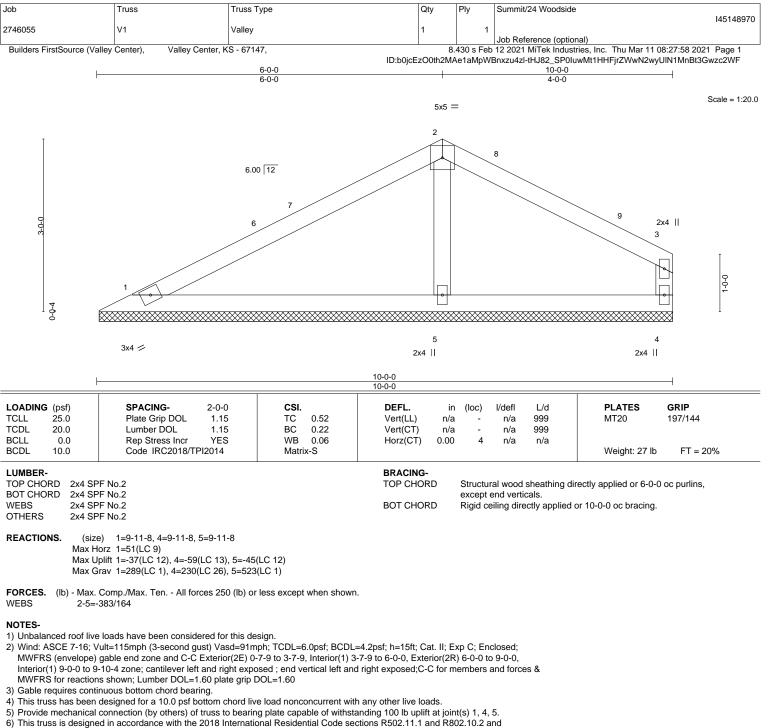
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- 4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
  6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



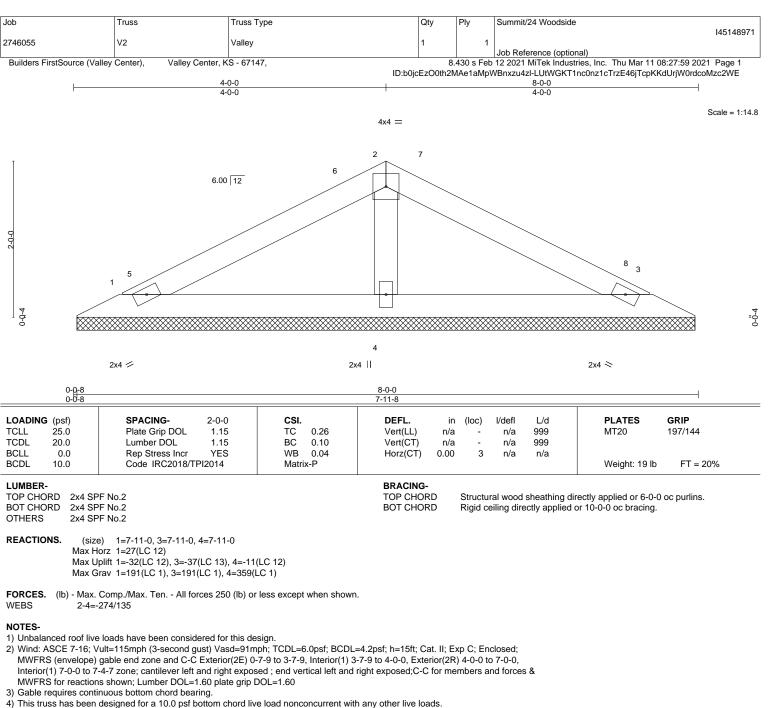




6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and referenced standard ANSI/TPI 1.





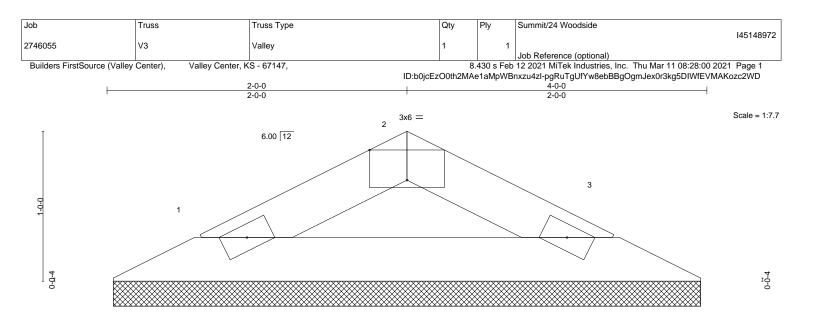


5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4. 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.



OF MISS SCOTT M. SEVIER NUMBER RO. PE-2001018807 SSIONAL H March 11,2021



2x4 💋

BOT CHORD

2x4 📚

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

07 <u>078</u> 0-0-8 late Offsets (X,Y)	2:0-3-0,Edge]		4-0-0 3-11-8
OADING         (psf)           CLL         25.0           CDL         20.0           GCLL         0.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	CSI. TC 0.04 BC 0.08 WB 0.00	DEFL.         in         (loc)         I/defl         L/d         PLATES         GRIP           Vert(LL)         n/a         -         n/a         999         MT20         197/144           Vert(CT)         n/a         -         n/a         999         Horz(CT)         0.00         3         n/a         n/a
CDL 10.0	Code IRC2018/TPI2014	Matrix-P	Weight: 8 lb FT = 20%
LUMBER- TOP CHORD 2x4 SPF	- No 2		BRACING- TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.

BOT CHORD 2x4 SPF No.2

REACTIONS. (size) 1=3-11-0, 3=3-11-0 Max Horz 1=11(LC 16) Max Uplift 1=-15(LC 12), 3=-15(LC 13) Max Grav 1=151(LC 1), 3=151(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=15ft; 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.

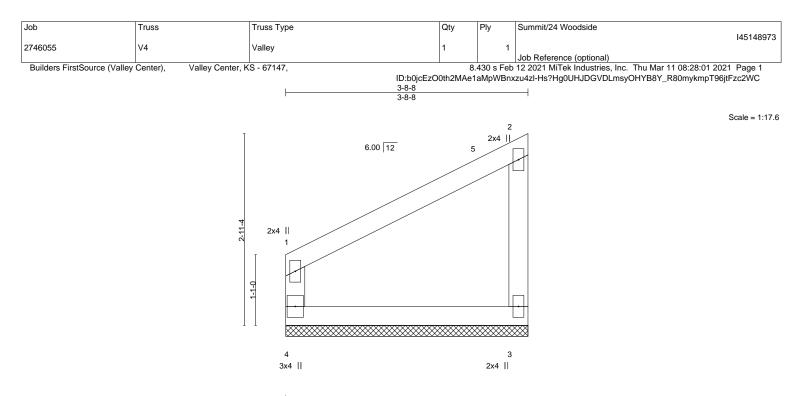
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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.







LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.12	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/T	PI2014	Matri	x-R						Weight: 12 lb	FT = 20%

LUMBER-

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 3-8-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=3-8-8, 3=3-8-8 Max Horz 4=93(LC 9)

Max Uplift 4=-15(LC 12), 3=-41(LC 12) Max Grav 4=188(LC 1), 3=188(LC 1)

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

NOTES-

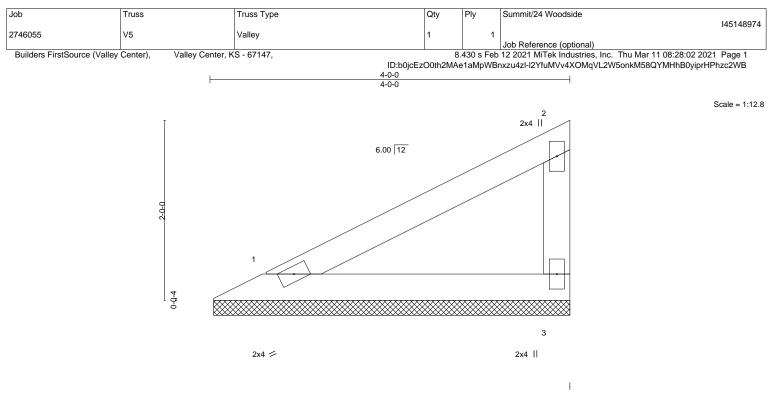
 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-6-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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







LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL)	n/a -	n/a	999	MT20	197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.10	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: 10 lb	FT = 20%

LUMBER-

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

REACTIONS. (size) 1=3-11-8, 3=3-11-8 Max Horz 1=60(LC 11)

Max Uplift 1=-19(LC 12), 3=-34(LC 12)

Max Grav 1=177(LC 1), 3=177(LC 1)

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

### NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; 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.
- 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.

# SCOTT M. SEVIER NUMBER PE-2001018807 March 11,2021

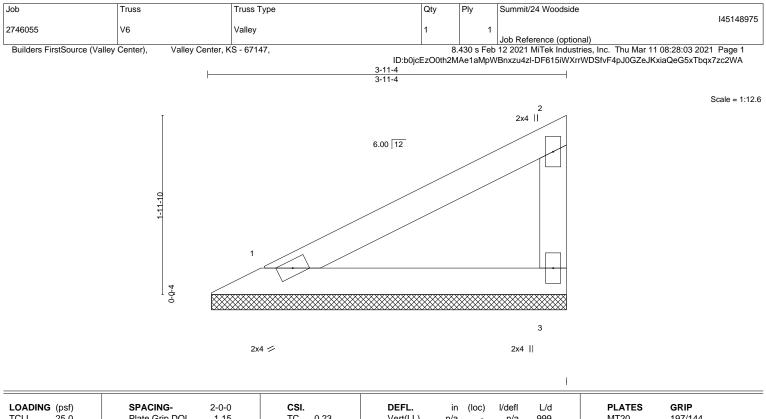
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



BRACING-TOP CHORD

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

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



LOADING         (psf)           TCLL         25.0           TCDL         20.0           BCLL         0.0           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	<b>CSI.</b> TC 0.23 BC 0.10 WB 0.00 Matrix-P	<b>DEFL.</b> 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: 10 lb         FT = 20%
LUMBER-			BRACING-	

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 1=3-10-12, 3=3-10-12 (size) Max Horz 1=59(LC 9)

Max Uplift 1=-18(LC 12), 3=-33(LC 12) Max Grav 1=174(LC 1), 3=174(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=15ft; 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.

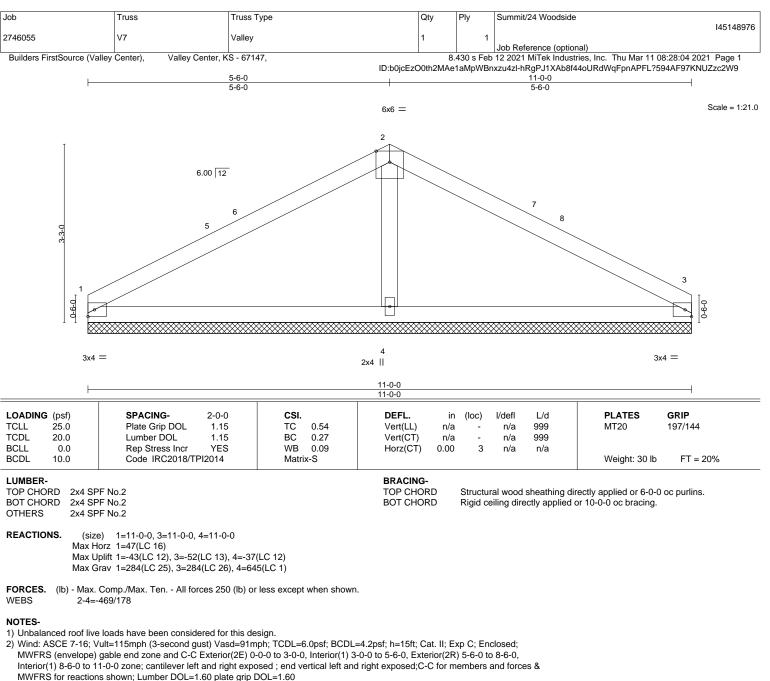


Structural wood sheathing directly applied or 3-11-4 oc purlins,

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

except end verticals.





3) Gable requires continuous bottom chord bearing.

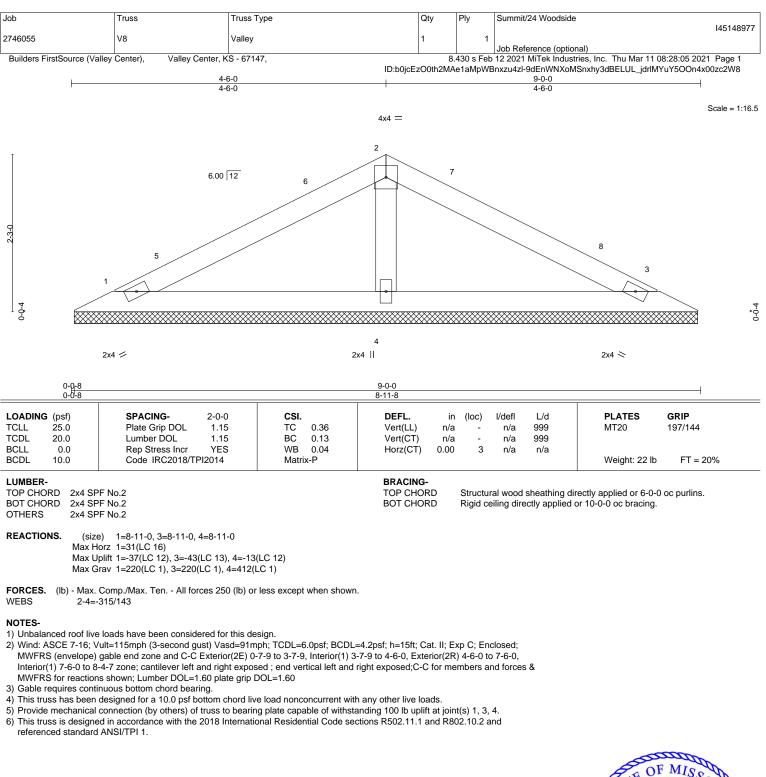
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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.

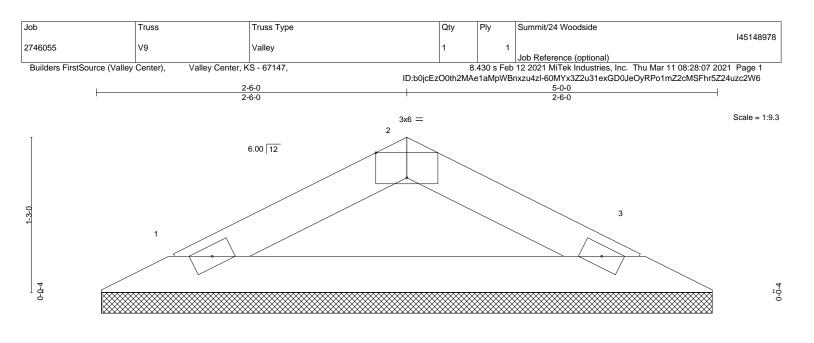












2x4 💋

2x4 📚

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

0-0-8 4-11-8 Plate Offsets (X,Y) [2:0-3-0,Edge]						
OADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP		
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) n/a - n/a 999	MT20 197/144		
FCDL 20.0	Lumber DOL 1.15	BC 0.15	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: 10 lb FT = 20%		

BOT CHORD

BOT CHORD 2x4 SPF No.2

REACTIONS. (size) 1=4-11-0, 3=4-11-0 Max Horz 1=15(LC 16) Max Uplift 1=-21(LC 12), 3=-21(LC 13) Max Grav 1=206(LC 1), 3=206(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=15ft; 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.





