

**RELEASE FOR** CONSTRUCTION **AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOURI

02/22/2021

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

# Re: 2646690 SUMMIT/WOODSIDE RIDGE#51/MO

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Valley Center).

Pages or sheets covered by this seal: I44821276 thru I44821313

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

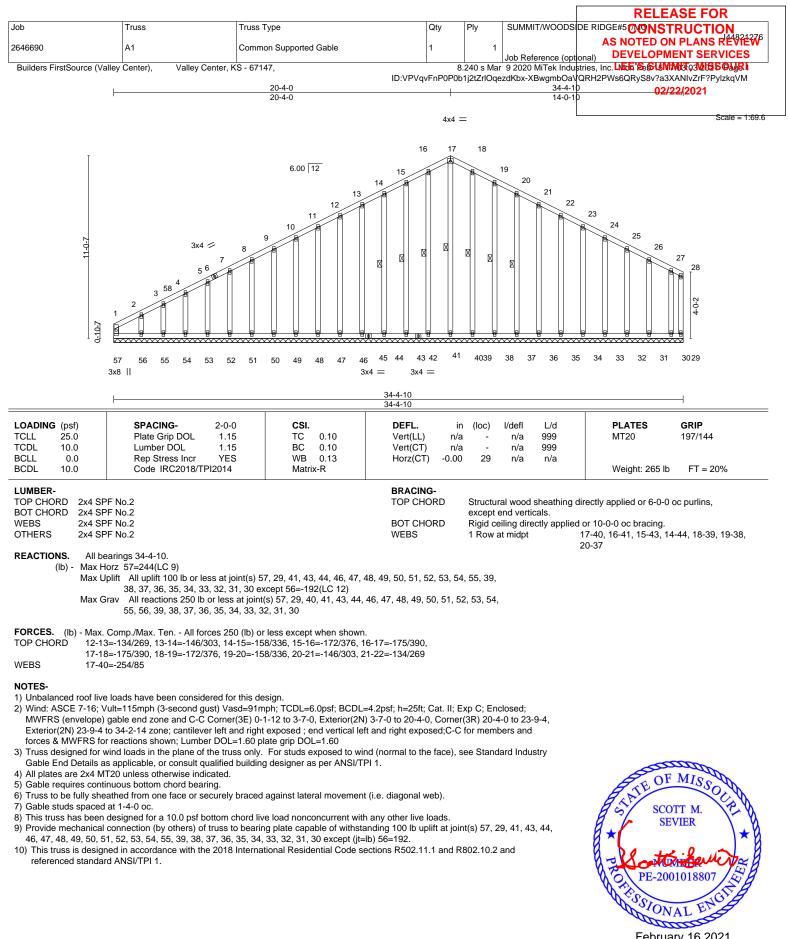
Missouri COA: Engineering 001193



February 16,2021

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

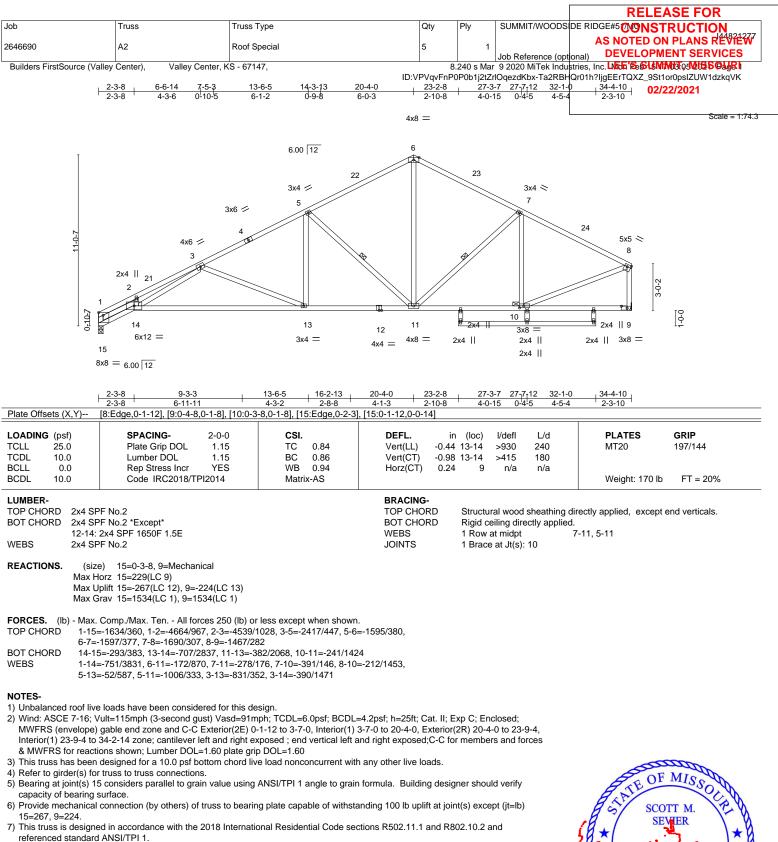
,Engineer



February 16,2021

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 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

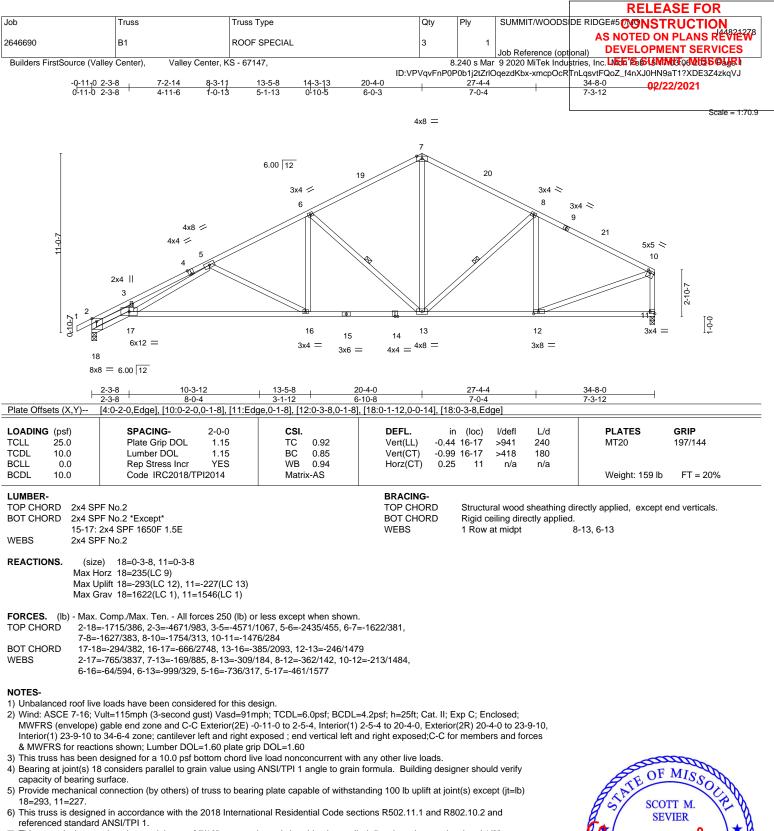
MITEK<sup>®</sup> 16023 Swingley Ridge Rd Chesterfield, MO 63017



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



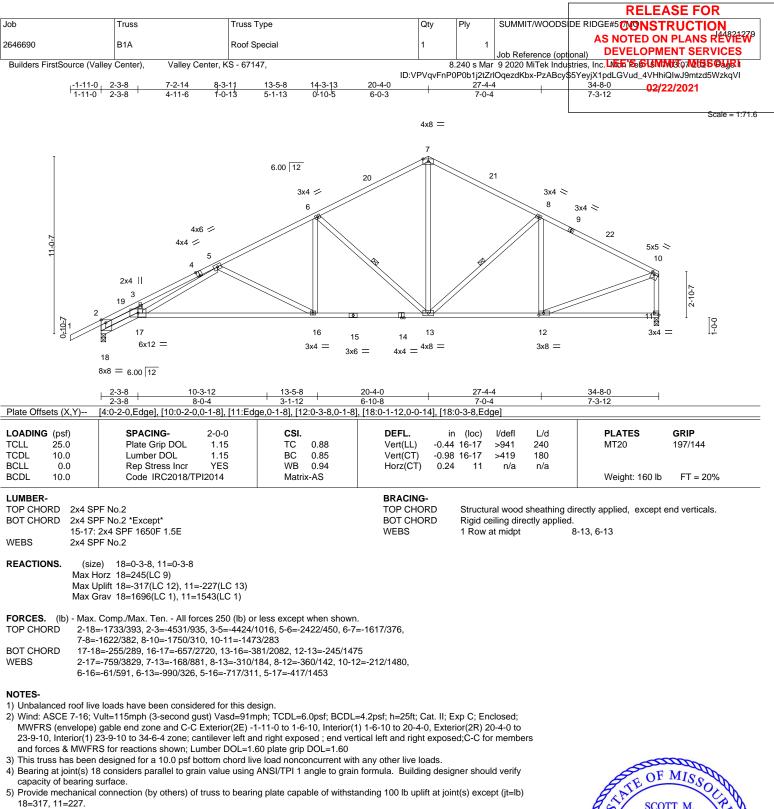




7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





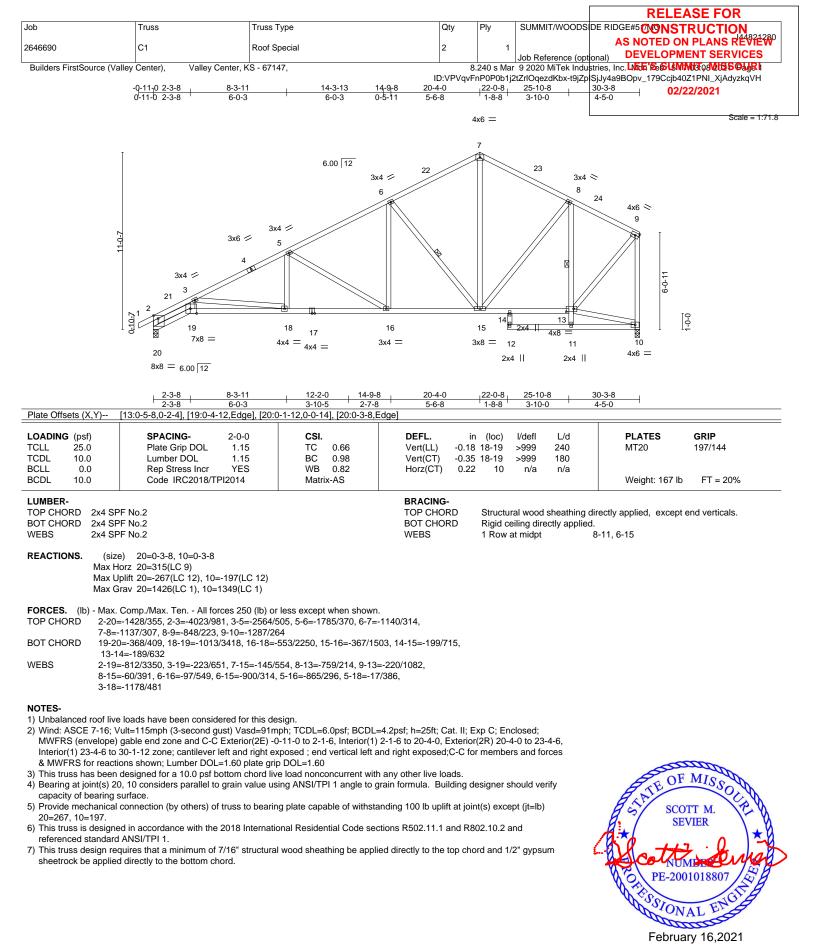


6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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.

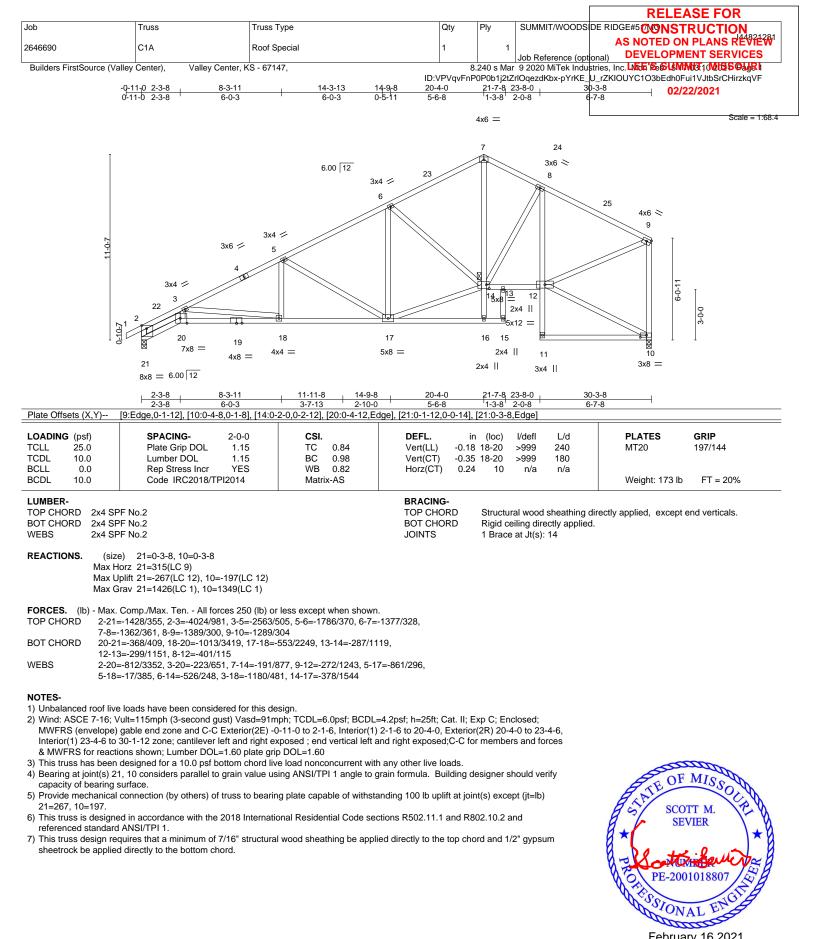


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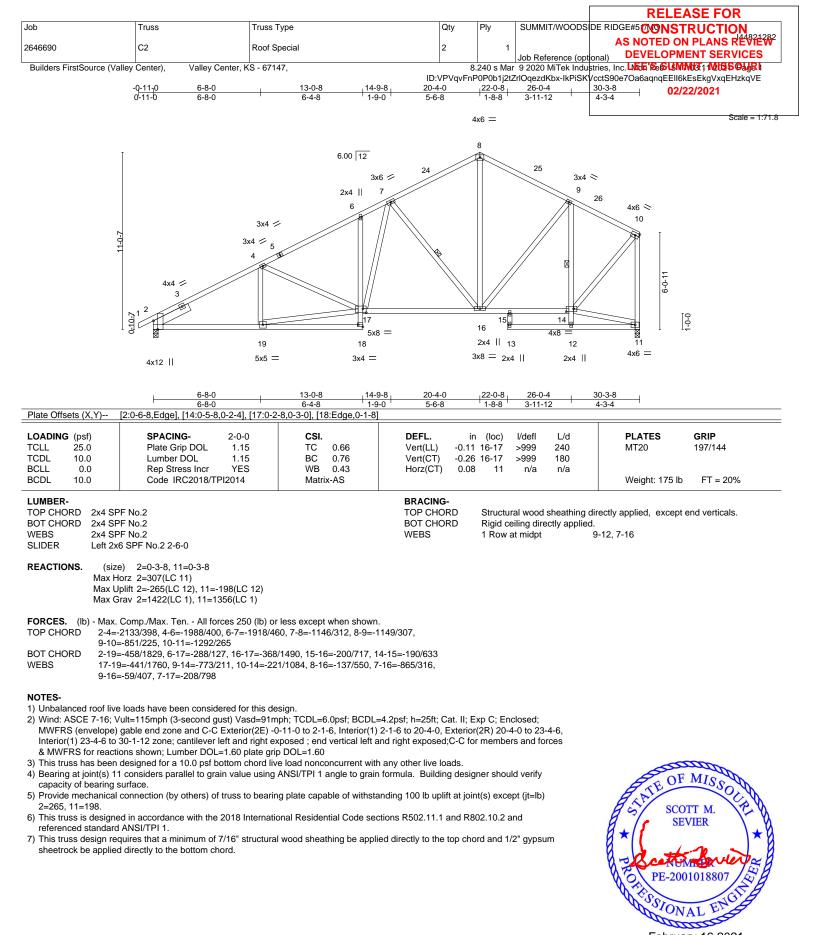
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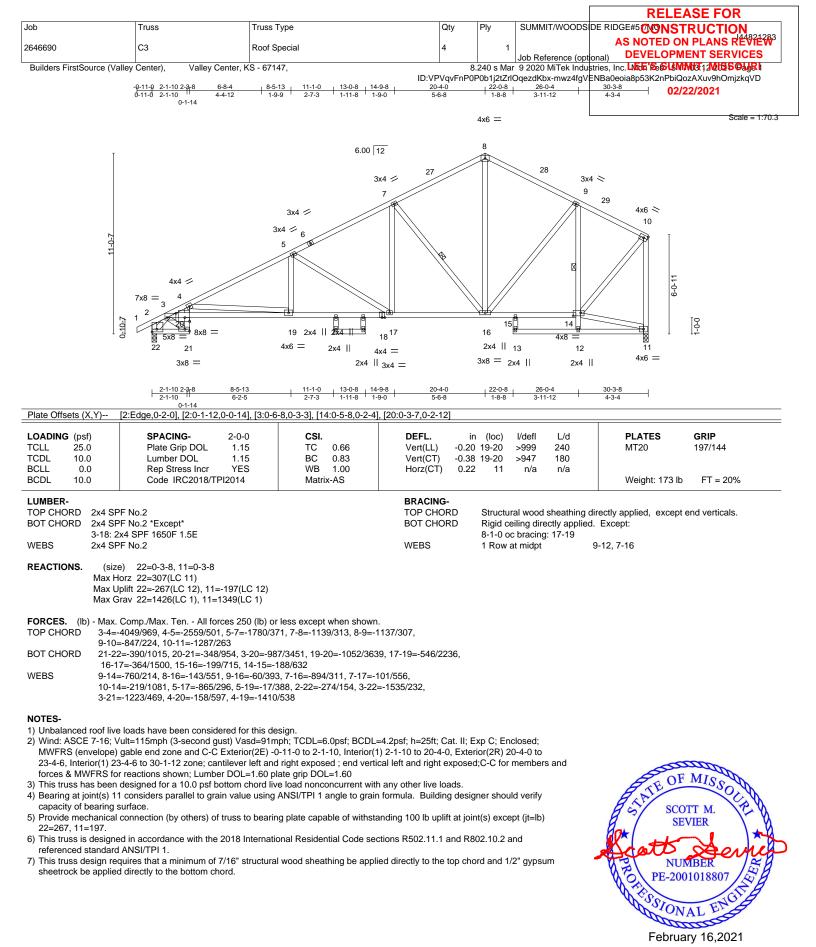
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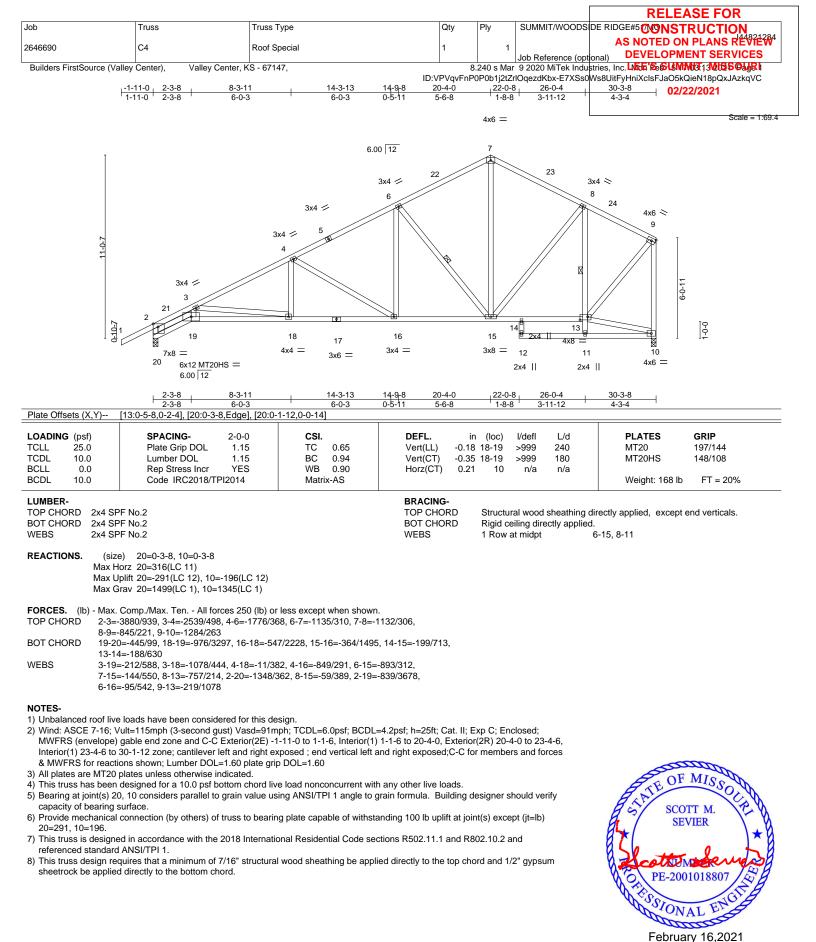
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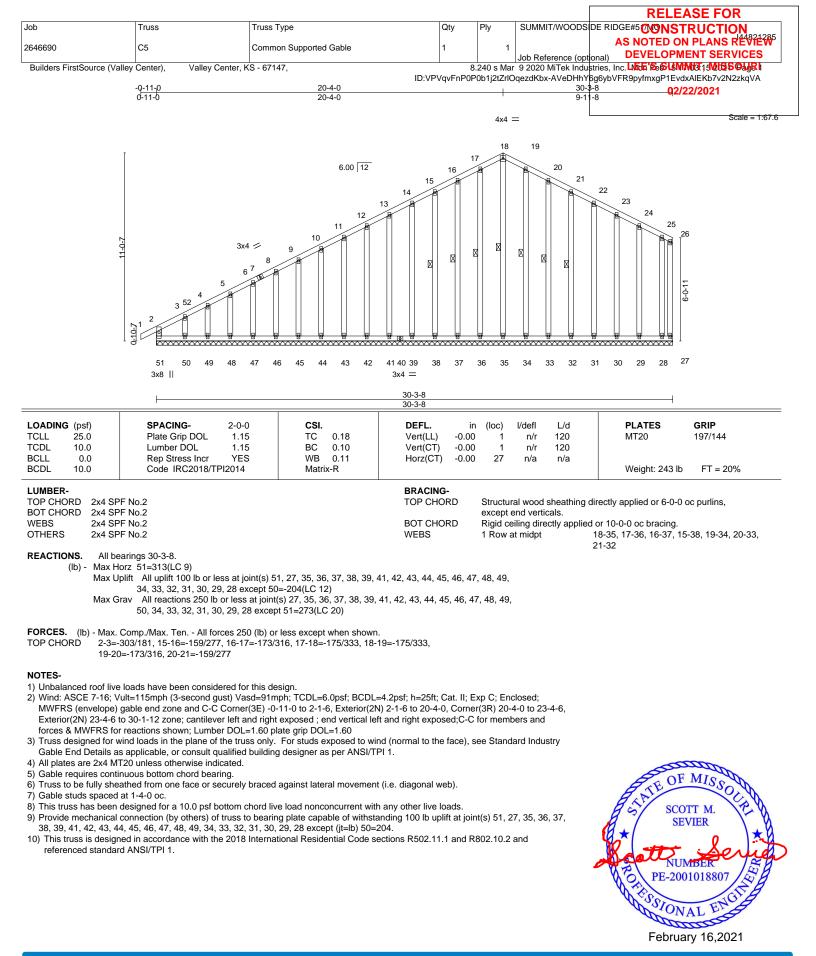


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

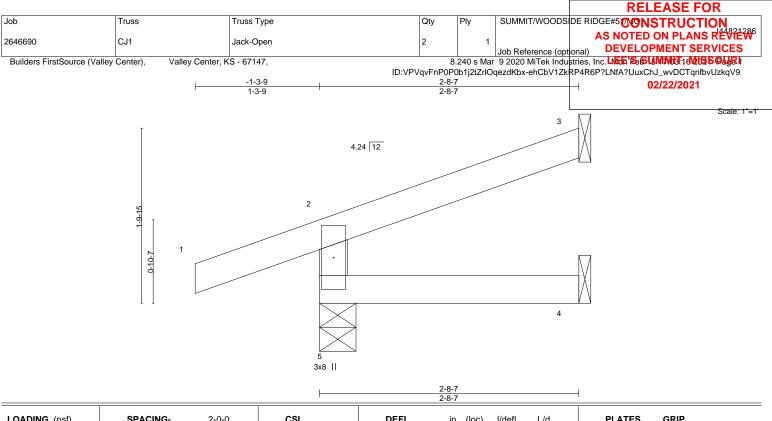
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LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.14	DEFL. in Vert(LL) -0.00	(loc) 4-5	>999	L/d 240	<b>PLATES GRIP</b> MT20 197/144	
TCDL         10.0           BCLL         0.0           BCDL         10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.05 WB 0.00 Matrix-MR	Vert(CT) -0.00 Horz(CT) -0.00	4-5 3		180 n/a	Weight: 8 lb FT = 20	%

LUMBER-

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-9, 3=Mechanical, 4=Mechanical

Max Horz 5=53(LC 8)

Max Uplift 5=-86(LC 8), 3=-36(LC 12) Max Grav 5=242(LC 1), 3=63(LC 1), 4=45(LC 3)

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

## NOTES-

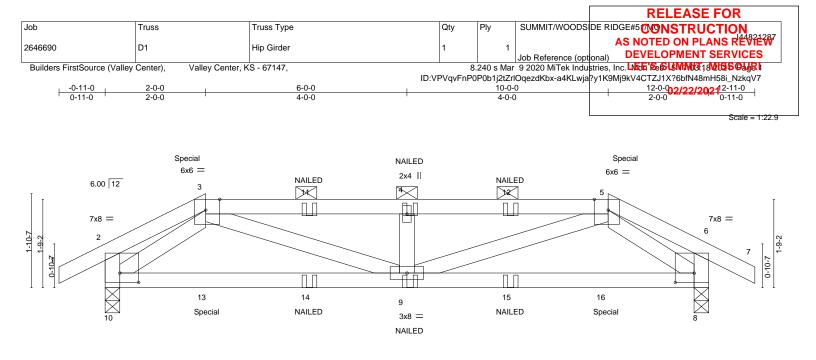
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right
- exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

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







⊢––	2-0-0	<u>6-0-0</u> 4-0-0		<u>10-0-0</u> 4-0-0	<u> </u>
Plate Offsets (X,Y)	[2:0-4-8,0-2-4], [2:0-1-12,0-0-14], [3:0-		6:0-1-12,0-0-14], [6:0-4		2-0-0
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.21 BC 0.36 WB 0.16 Matrix-MS	<b>DEFL.</b> ir Vert(LL) -0.04 Vert(CT) -0.08 Horz(CT) 0.01	9-10 >999 180	PLATES         GRIP           MT20         197/144           Weight: 47 lb         FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP	F No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing o 2-0-0 oc purlins (5-4-3 max. Rigid ceiling directly applied	
Max H Max U	e) 10=0-3-8, 8=0-3-8 orz 10=24(LC 29) plift 10=-159(LC 8), 8=-159(LC 9) rav 10=597(LC 1), 8=597(LC 1)				
TOP CHORD 3-4=- BOT CHORD 9-10=	Comp./Max. Ten All forces 250 (lb) 1125/319, 4-5=-1125/319 153/504, 8-9=-148/504 158/670, 4-9=-332/142, 5-9=-158/670		91		
<ul> <li>2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60</li> <li>3) Provide adequate dr</li> <li>4) This truss has been</li> </ul>	e loads have been considered for this of fult=115mph (3-second gust) Vasd=91 gable end zone; cantilever left and rig ainage to prevent water ponding. designed for a 10.0 psf bottom chord l 0, 8 considers parallel to grain value us surface	mph; TCDL=6.0psf; BCDL= nt exposed ; end vertical left ive load nonconcurrent with	and right exposed; Lur any other live loads.	nber DOL=1.60 plate	
6) Provide mechanical 10=159, 8=159.	connection (by others) of truss to bear ed in accordance with the 2018 Interna		0 , ,		STATE OF MISSOL
<ul> <li>8) Graphical purlin repr</li> <li>9) "NAILED" indicates 3</li> <li>10) Hanger(s) or other</li> <li>2-0-0, and 35 lb do</li> <li>9-11-4 on bottom c</li> </ul>	esentation does not depict the size or 3-10d (0.148"x3") or 3-12d (0.148"x3.2 connection device(s) shall be provided wn and 79 lb up at 10-0-0 on top cho hord. The design/selection of such co (S) section, loads applied to the face of	5") toe-nails per NDS guidli I sufficient to support conce d, and 21 lb down and 9 lb nnection device(s) is the res	nes. ntrated load(s) 35 lb do up at 2-0-0, and 21 lb c sponsibility of others.	wn and 79 lb up at	SEVIER *
Uniform Loads (plf)	dard alanced): Lumber Increase=1.15, Plat '0, 3-5=-70, 5-7=-70, 8-10=-20	e Increase=1.15			PE-2001018807

## Continued on page 2

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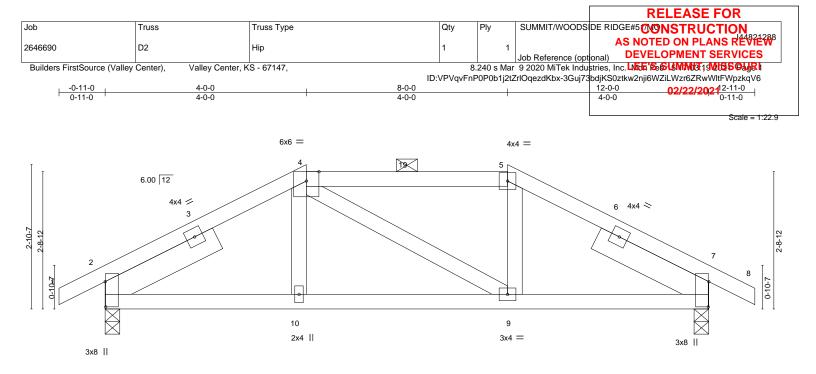
February 16,2021

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODS	DE RIDGE#5 AS NOTED ON PLANS REVIEW
2646690	D1	Hip Girder	1	1		AS NOTED ON PLANS REVIEW
					Job Reference (opt	
Builders FirstSource (Valley (	Center), Valley Center, K	(S - 67147,	8	.240 s Mar	9 2020 MiTek Indu	stries, Inc. LNEGE Sei SUSMINUET 18 VILLES OUGE L
		ID:V	PVqvFnPC	P0b1j2tZrl	OqezdKbx-a4KLwja	?y1K9Mj9kV4CTZJ1X?6bfN48mH58i_NzkqV7
LOAD CASE(S) Standard						02/22/2021
LOAD CASE(S) Standard		ID:V	PVqvFnP0	P0b1j2tZrl	OqezdKbx-a4KLwja	, ,

Concentrated Loads (lb)

Vert: 9=1(B) 13=3(B) 14=1(B) 15=1(B) 16=3(B)





<b>⊢</b> −−	<u>4-0-0</u> 4-0-0	8-0-0		<u>12-0-0</u> 4-0-0	
Plate Offsets (X,Y)	[2:0-6-0,0-0-2], [7:0-6-0,0-0-2]				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI.         DEFL.           TC         0.24         Vert(LL)           BC         0.23         Vert(CT)           WB         0.03         Horz(CT)           Matrix-AS         Horz(CT)	in (loc) I/defl L/ -0.02 9-10 >999 24 -0.04 9-10 >999 18 0.01 7 n/a n/	0 MT20 197/1 0 a	

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
SLIDER	Left 2x6 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0

 
 BRACING 

 TOP CHORD
 Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 4-5.

 BOT CHORD
 Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 7=0-3-8 Max Horz 2=42(LC 12) Max Uplift 2=-113(LC 12), 7=-113(LC 13) Max Grav 2=604(LC 1), 7=604(LC 1)

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

TOP CHORD 2-4=-682/266, 4-5=-586/276, 5-7=-682/266

BOT CHORD 2-10=-151/590, 9-10=-153/586, 7-9=-154/590

NOTES-

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

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

3) Provide adequate drainage to prevent water ponding.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=113, 7=113.

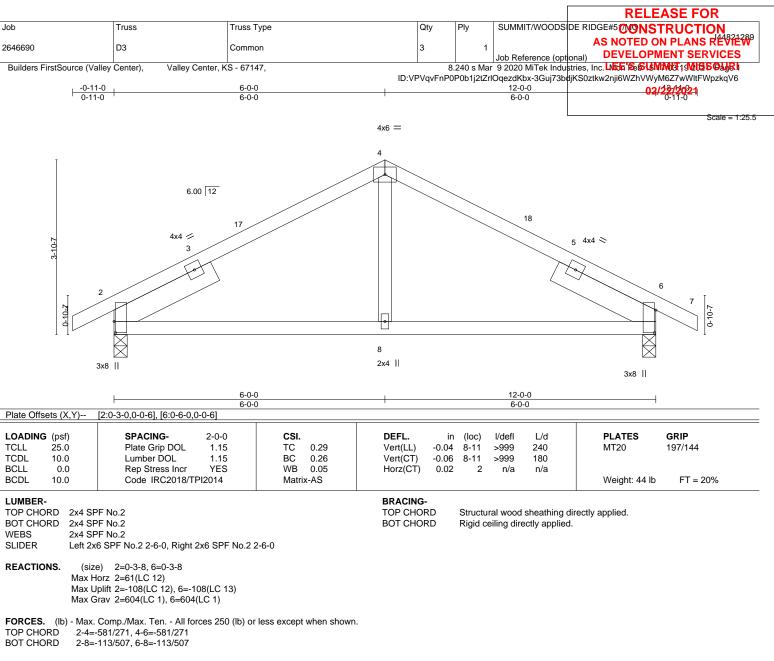
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

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



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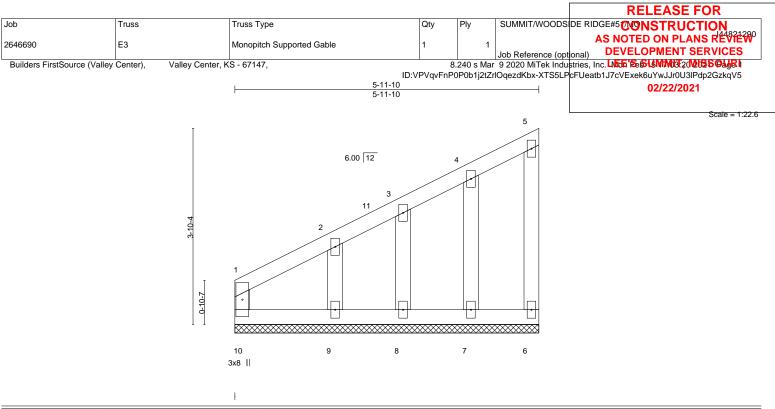
#### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 12-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=108, 6=108.
- 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.







LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.15 BC 0.15 WB 0.05 Matrix-R		c) l/defl L/d - n/a 999 - n/a 999 6 n/a n/a	PLATES         GRIP           MT20         197/144           Weight: 25 lb         FT = 20%
LUMBER-		ľ	BRACING-		1

## LUMBER-

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

TOP CHORD Structural wood sheathing directly applied or 5-11-10 oc purlins, except end verticals.

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

REACTIONS. All bearings 5-11-10.

(lb) -Max Horz 10=142(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 10, 6, 7, 8 except 9=-104(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 10, 6, 7, 8, 9

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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
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TOP CHORD
              1-2=-328/170
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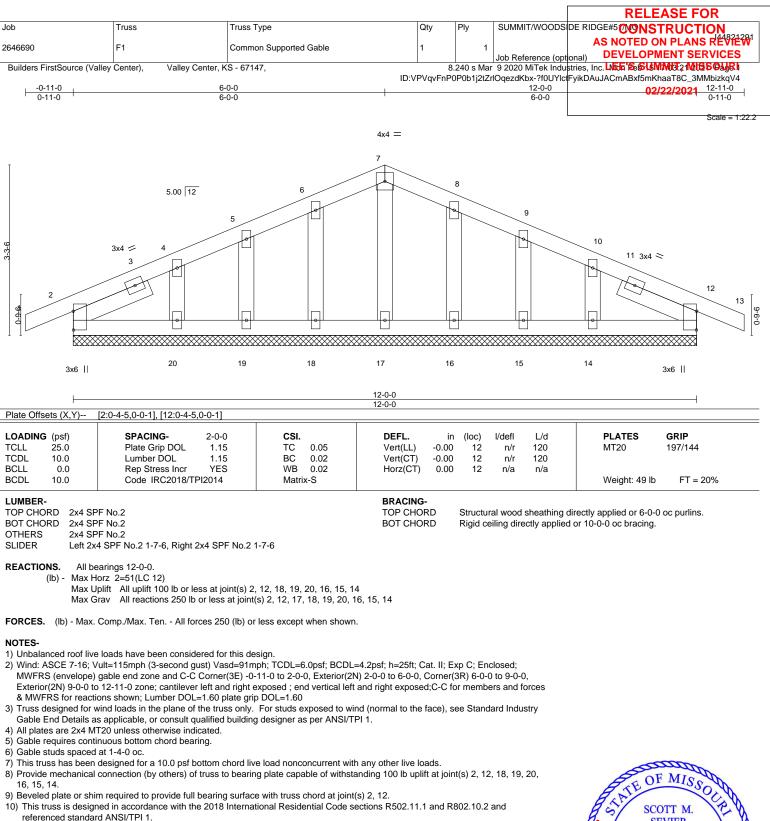
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WEBS
               2-9=-144/260
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## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-1-12 to 3-3-10, Exterior(2N) 3-3-10 to 5-9-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6, 7, 8 except (jt=lb) 9=104.
- 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.



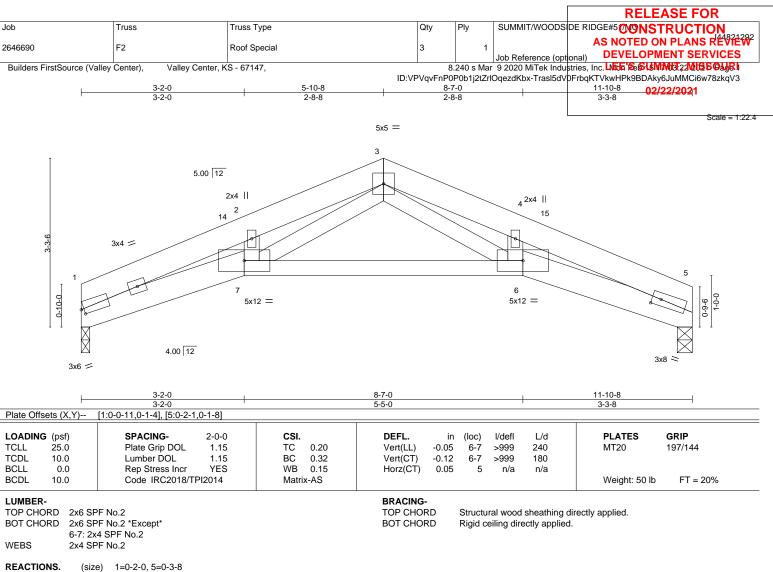






February 16,2021





TONS. (size) 1=0-2-0, 5=0-3-8 Max Horz 1=-45(LC 13) Max Uplift 1=-89(LC 12), 5=-90(LC 13) Max Grav 1=534(LC 1), 5=534(LC 1)

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

TOP CHORD 1-2=-1565/552, 2-3=-1426/589, 3-4=-1470/600, 4-5=-1604/560

BOT CHORD 1-7=-471/1421, 6-7=-275/883, 5-6=-470/1463

WEBS 3-7=-228/566, 3-6=-245/608

### NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-10-8, Exterior(2R) 5-10-8 to 8-10-8, Interior(1) 8-10-8 to 11-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) Bearing at joint(s) 1, 5 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 at joint(s) 1.

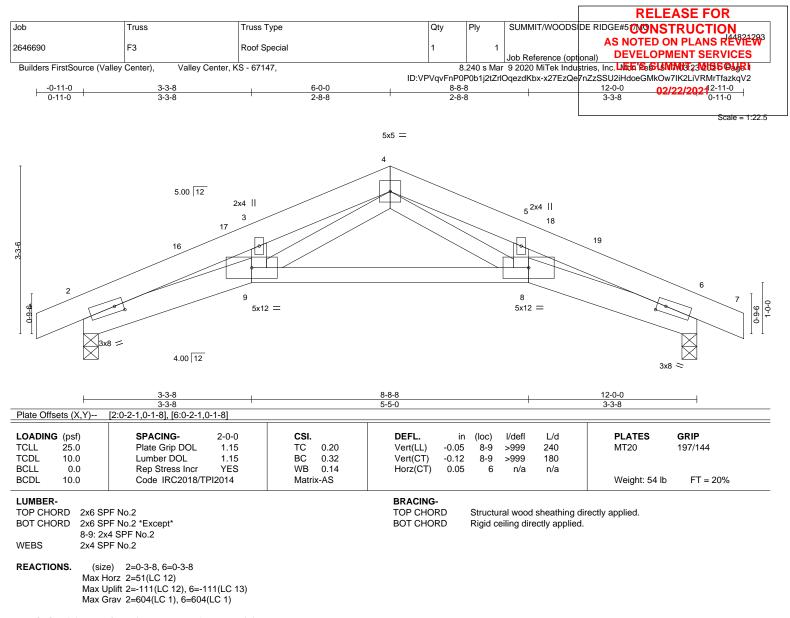
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.

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

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







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

- TOP CHORD 2-3=-1589/525, 3-4=-1453/568, 4-5=-1453/567, 5-6=-1589/523
- BOT CHORD 2-9=-423/1447, 8-9=-229/886, 6-8=-420/1447

WEBS 4-8=-229/586, 4-9=-230/586

### NOTES-

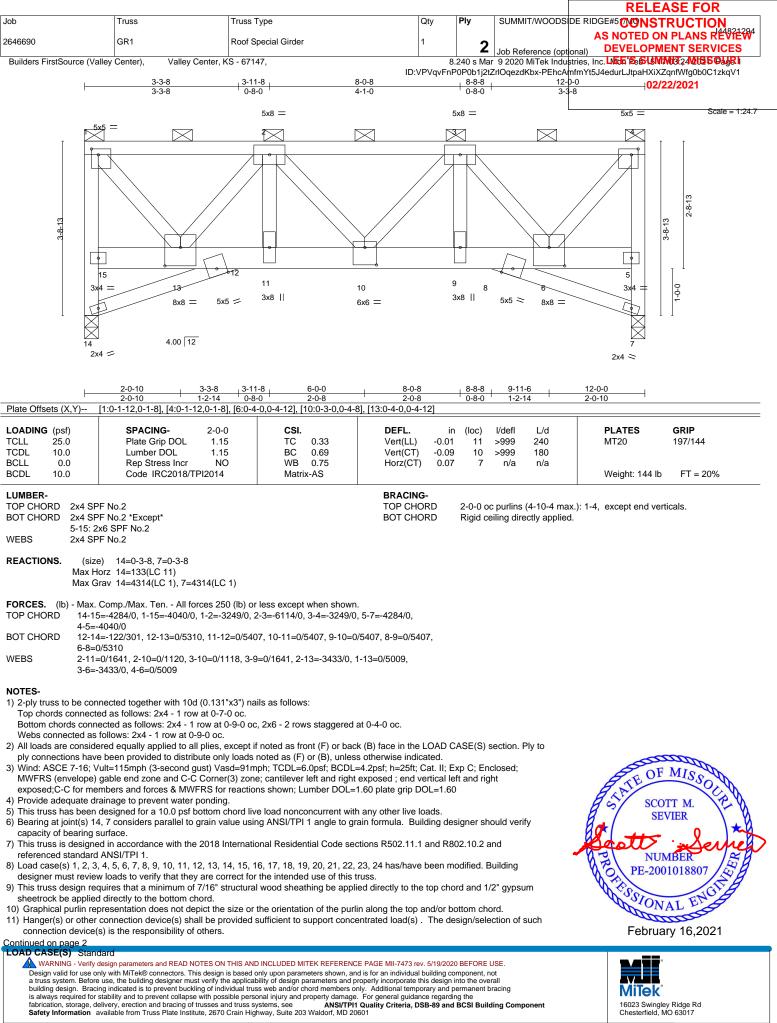
1) Unbalanced roof live loads have been considered for this design.

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

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 2, 6 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) 2=111, 6=111.
- 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.







16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODS	
2646690	GR1	Roof Special Girder	1	1		AS NOTED ON PLANS REVIEW
Builders FirstSource (Valley	Center), Valley Center, H	(S - 67147.		2 8.240 s Ma	Job Reference (op ar 9 2020 MiTek Indu	tional) DEVELOPMENT SERVICES
	,					JADAhoB4P2q6LnpiSxv3W6mougKakTzkqV0
LOAD CASE(S) Standard	1					02/22/2021
<ol> <li>Dead + Roof Live (balar Uniform Loads (plf)</li> </ol>	nced): Lumber Increase=1.15	5, Plate Increase=1.15				
Vert: 1-4=-70, 1	2-14=-20, 8-12=-20, 7-8=-20	)				
Concentrated Loads (lb) Vert: 11=-1515	) (F) 10=-1515(F) 9=-1515(F)	13=-1515(F) 6=-1515(F)				
2) Dead + 0.75 Roof Live (	balanced): Lumber Increase					
Uniform Loads (plf) Vert: 1-4=-58, 1	2-14=-20, 8-12=-20, 7-8=-20	)				
Concentrated Loads (lb)	) (F) 10=-1515(F) 9=-1515(F)	12- 1515/E) 6- 1515/E)				
		Increase=1.25, Plate Increase=1.25				
Uniform Loads (plf) Vert: 1-4=-20_1	2-14=-40, 8-12=-40, 7-8=-40	)				
Concentrated Loads (lb)	)					
	(F) 10=-1515(F) 9=-1515(F) Pos. Internal) Case 1: Lumbe	13=-1515(F) 6=-1515(F) r Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)	2-14=-8, 8-12=-8, 7-8=-8					
Horz: 1-14=23,	4-7=38					
Concentrated Loads (lb) Vert: 11=-1515	) (F) 10=-1515(F) 9=-1515(F)	13=-1515(F) 6=-1515(F)				
5) Dead + 0.6 C-C Wind (F		r Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf) Vert: 1-4=75, 12	2-14=-8, 8-12=-8, 7-8=-8					
Horz: 1-14=-38 Concentrated Loads (Ib)						
Vert: 11=-1515	(F) 10=-1515(F) 9=-1515(F)					
<li>6) Dead + 0.6 C-C Wind (N Uniform Loads (plf)</li>	leg. Internal) Case 1: Lumbe	r Increase=1.60, Plate Increase=1.60				
Vert: 1-4=-33, 1	2-14=-20, 8-12=-20, 7-8=-20	)				
Horz: 1-14=-26 Concentrated Loads (lb)						
	(F) 10=-1515(F) 9=-1515(F)	13=-1515(F) 6=-1515(F) r Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)	c ,					
Vert: 1-4=-33, 1 Horz: 1-14=35,	2-14=-20, 8-12=-20, 7-8=-20 4-7=26	)				
Concentrated Loads (lb)		12- 1515/E) 6- 1515/E)				
	(F) 10=-1515(F) 9=-1515(F) nd (Pos. Internal) Left: Lumb	er Increase=1.60, Plate Increase=1.60	1			
Uniform Loads (plf) Vert: 1-4=29, 1	2-14=-8, 8-12=-8, 7-8=-8					
Horz: 1-14=17,	4-7=22					
Concentrated Loads (lb) Vert: 11=-1515	) (F) 10=-1515(F) 9=-1515(F)	13=-1515(F) 6=-1515(F)				
<li>9) Dead + 0.6 MWFRS With Uniform Loads (plf)</li>	nd (Pos. Internal) Right: Lum	ber Increase=1.60, Plate Increase=1.6	60			
Vert: 1-4=29, 12	2-14=-8, 8-12=-8, 7-8=-8					
Horz: 1-14=-22 Concentrated Loads (Ib)						
Vert: 11=-1515	(F) 10=-1515(F) 9=-1515(F)		20			
Uniform Loads (plf)		ber Increase=1.60, Plate Increase=1.6	50			
Vert: 1-4=9, 1 Horz: 1-14=28	2-14=-20, 8-12=-20, 7-8=-20 3. 4-7=10					
Concentrated Loads (I	b)					
	5(F) 10=-1515(F) 9=-1515(F /ind (Neg. Internal) Right: Lu	mber Increase=1.60, Plate Increase=1	.60			
Uniform Loads (plf) Vert: 1-4=9 1	2-14=-20, 8-12=-20, 7-8=-20					
Horz: 1-14=-1	0, 4-7=-28					
Concentrated Loads (I Vert: 11=-151	o) 5(F) 10=-1515(F) 9=-1515(F	) 13=-1515(F) 6=-1515(F)				
12) Dead + 0.6 MWFRS W Uniform Loads (plf)	/ind (Pos. Internal) 1st Parall	el: Lumber Increase=1.60, Plate Increa	ase=1.60			
Vert: 1-4=29,	12-14=-8, 8-12=-8, 7-8=-8					
Horz: 1-14=14 Concentrated Loads (II						
Vert: 11=-151	5(F) 10=-1515(F) 9=-1515(F		200-1 60			
Uniform Loads (plf)	х <i>у</i>	llel: Lumber Increase=1.60, Plate Incre	ast=1.00			
Vert: 1-4=29, Horz: 1-14=-2	12-14=-8, 8-12=-8, 7-8=-8 0 4-7=-14					
Concentrated Loads (I	b)					
vert: 11=-151	5(F) 10=-1515(F) 9=-1515(F	) 13=-1515(F) 6=-1515(F)				

## Continued on page 3

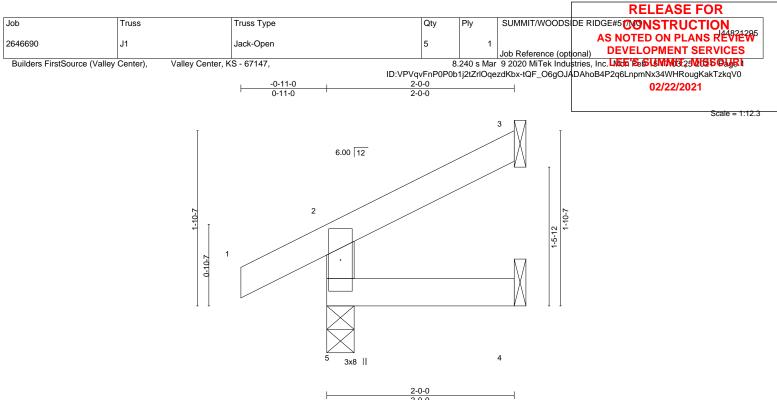


						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODS	
2646690	GR1	Roof Special Girder	1	2		AS NOTED ON PLANS REVIEW
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147	s	<b>2</b>		
Dunders I instabulie (Valley						JADAhoB4P2q6LnpiSxv3W6mougKakTzkqV0
LOAD CASE(S) Standard	I					02/22/2021
		el: Lumber Increase=1.60, Plate Increas	e=1.60			
Uniform Loads (plf)	12-14=-8, 8-12=-8, 7-8=-8					
Horz: 1-14=7,	, ,					
Concentrated Loads (II						
	5(F) 10=-1515(F) 9=-1515(F) /ind (Pos. Internal) 4th Parall	) 13=-1515(F) 6=-1515(F) el: Lumber Increase=1.60, Plate Increas	e=1.60			
Uniform Loads (plf)	. ,	· · · · · · · · · · · · · · · · · · ·				
Vert: 1-4=16, Horz: 1-14=-1	12-14=-8, 8-12=-8, 7-8=-8					
Concentrated Loads (II						
	5(F) 10=-1515(F) 9=-1515(F)		- 4.00			
16) Dead + 0.6 MWFRS W Uniform Loads (plf)	(Ind (Neg. Internal) 1st Parall	el: Lumber Increase=1.60, Plate Increas	e=1.60			
Vert: 1-4=9, 12	2-14=-20, 8-12=-20, 7-8=-20					
Horz: 1-14=26 Concentrated Loads (II						
	5) 5(F) 10=-1515(F) 9=-1515(F)	13=-1515(F) 6=-1515(F)				
	/ind (Neg. Internal) 2nd Para	llel: Lumber Increase=1.60, Plate Increas	se=1.60			
Uniform Loads (plf) Vert: 1-4=9 12	2-14=-20, 8-12=-20, 7-8=-20					
Horz: 1-14=-8	, 4-7=-26					
Concentrated Loads (II	b) 5(F) 10=-1515(F) 9=-1515(F)	12- 1515(5) 6- 1515(5)				
	e=0.90, Plate Increase=0.90					
Uniform Loads (plf)						
Vert: 1-4=-20, Concentrated Loads (II	12-14=-20, 8-12=-20, 7-8=-2 ວ)	20				
Vert: 11=-151	5(F) 10=-1515(F) 9=-1515(F)					
	(bal.) + 0.75(0.6 MWFRS W	ind (Neg. Int) Left): Lumber Increase=1.6	60, Plate Increas	se=1.60		
Uniform Loads (plf) Vert: 1-4=-36,	12-14=-20, 8-12=-20, 7-8=-2	20				
Horz: 1-14=21	,					
Concentrated Loads (Il Vert: 11=-151	o) 5(F) 10=-1515(F) 9=-1515(F)	13=-1515(F) 6=-1515(F)				
20) Dead + 0.75 Roof Live		ind (Neg. Int) Right): Lumber Increase=1	.60, Plate Increa	ase=1.60		
Uniform Loads (plf)	12-14=-20, 8-12=-20, 7-8=-2	20				
Horz: 1-14=-30,						
Concentrated Loads (II						
	5(F) 10=-1515(F) 9=-1515(F) (bal.) + 0.75(0.6 MWFRS W	ind (Neg. Int) 1st Parallel): Lumber Incre	ase=1.60. Plate	Increase=	1.60	
Uniform Loads (plf)			,,			
Vert: 1-4=-36, Horz: 1-14=19	12-14=-20, 8-12=-20, 7-8=-2	20				
Concentrated Loads (II						
	5(F) 10=-1515(F) 9=-1515(F)		4 00 Di-4		1.00	
Uniform Loads (plf)	(bal.) + 0.75(0.6 MWFRS W	ind (Neg. Int) 2nd Parallel): Lumber Incre	ease=1.60, Plate	e increase	=1.60	
	12-14=-20, 8-12=-20, 7-8=-2	20				
Horz: 1-14=-6 Concentrated Loads (II						
Vert: 11=-151	5(F) 10=-1515(F) 9=-1515(F)					
23) Dead + 0.6 C-C Wind I Uniform Loads (plf)	Vin. Down: Lumber Increase	=1.60, Plate Increase=1.60				
· · · · · · · · · · · · · · · · · · ·	12-14=-8, 8-12=-8, 7-8=-8					
Horz: 1-14=-1	,					
Concentrated Loads (Il Vert: 11=-151	o) 5(F) 10=-1515(F) 9=-1515(F)	13=-1515(F) 6=-1515(F)				
24) Dead + 0.6 C-C Wind I		se=1.60, Plate Increase=1.60				
Uniform Loads (plf) Vert: 1-4=4 1	2-14=-8, 8-12=-8, 7-8=-8					
Horz: 1-14=4, 12						
Concentrated Loads (II	o) 5(E) 10=-1515(E) 9=-1515(E)					

Vert: 11=-1515(F) 10=-1515(F) 9=-1515(F) 13=-1515(F) 6=-1515(F)







				2-0-0
LOADING	G (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 0.08	Vert(LL) -0.00 5 >999 240 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00 4-5 >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-MR	Weight: 7 lb FT = 20%

## LUMBER-

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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=47(LC 12) Max Uplift 5=-26(LC 12), 3=-35(LC 12), 4=-2(LC 12)

Max Grav 5=179(LC 1), 3=46(LC 1), 4=33(LC 3)

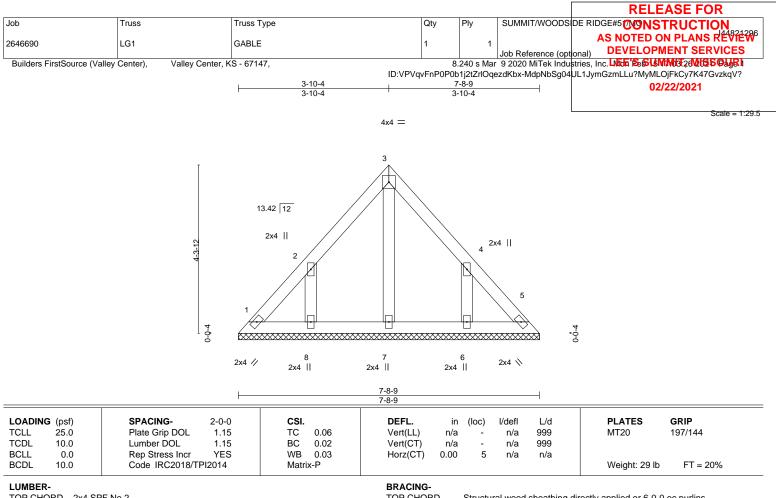
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

## NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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.
- Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







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

TOP CHORD BOT CHORD

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

REACTIONS. All bearings 7-8-9. Max Horz 1=-106(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-159(LC 12), 6=-159(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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

## NOTES-

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

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

MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 3-10-4, Exterior(2R) 3-10-4 to 6-10-4 , Interior(1) 6-10-4 to 7-4-10 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) Gable requires continuous bottom chord bearing.

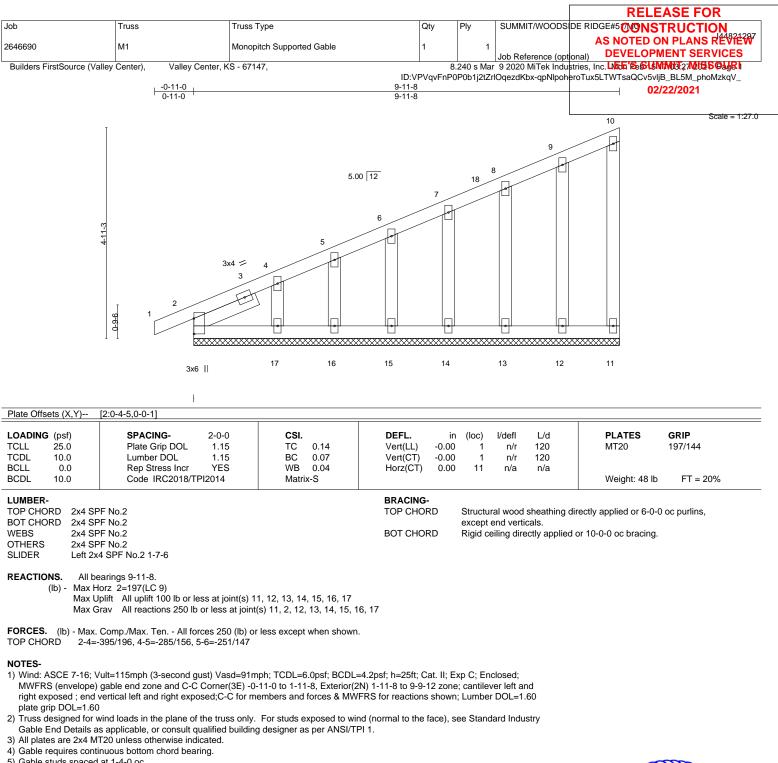
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=159, 6=159.

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



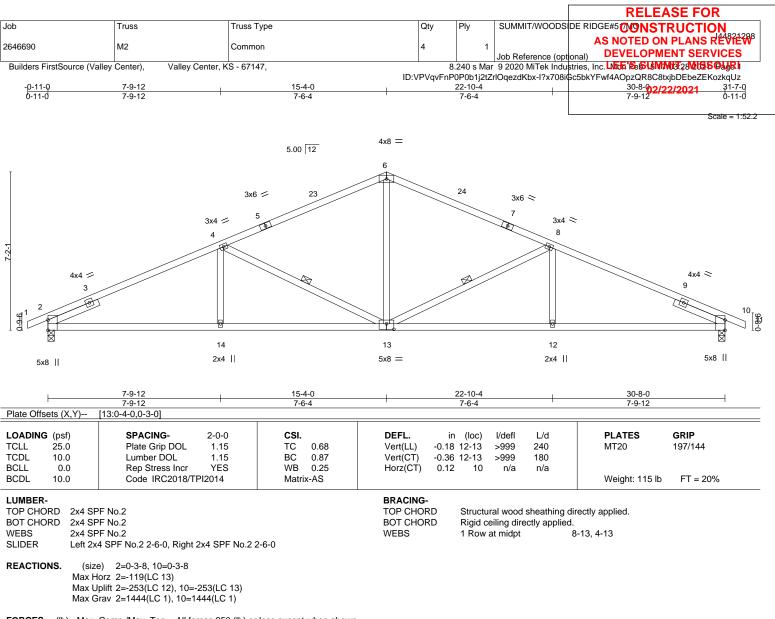




- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 12, 13, 14, 15, 16, 17
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- TOP CHORD 2-4=-2471/415, 4-6=-1826/359, 6-8=-1826/359, 8-10=-2471/416
- BOT CHORD 2-14=-405/2208, 13-14=-405/2208, 12-13=-286/2208, 10-12=-286/2208
- WEBS 6-13=-80/789, 8-13=-756/275, 8-12=0/271, 4-13=-756/274, 4-14=0/271

## NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 2-1-13, Interior(1) 2-1-13 to 15-4-0, Exterior(2R) 15-4-0 to 18-4-13, Interior(1) 18-4-13 to 31-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

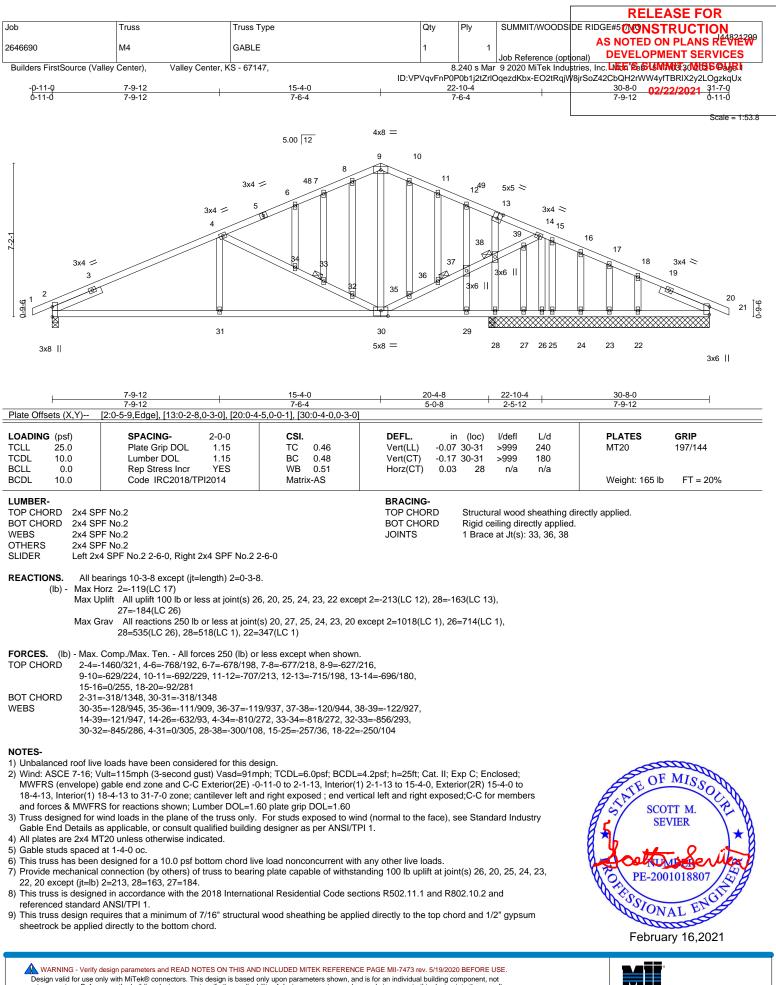
 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=253, 10=253.

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

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



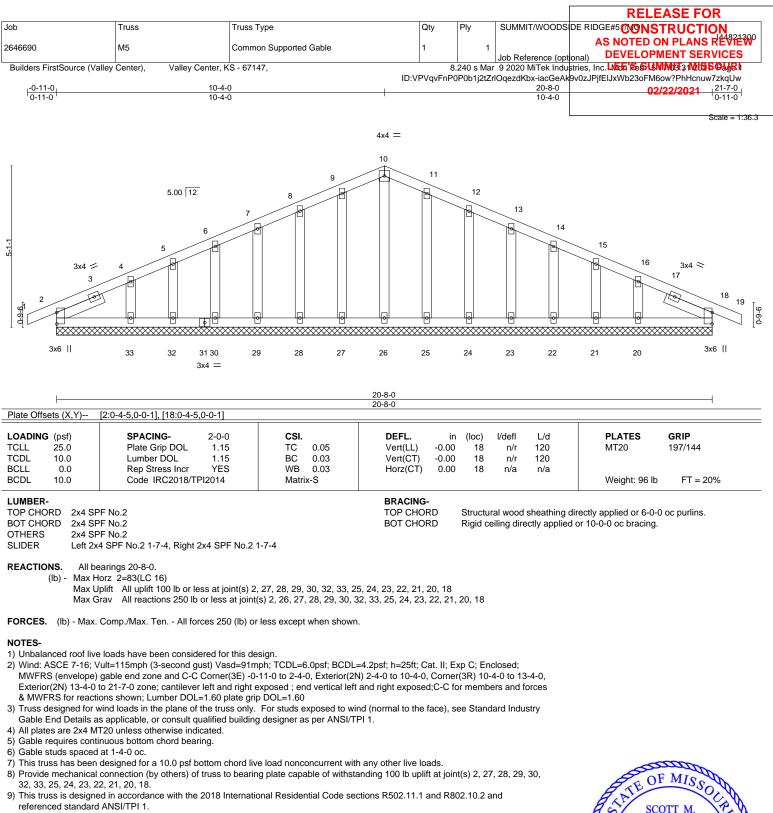
MITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017



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

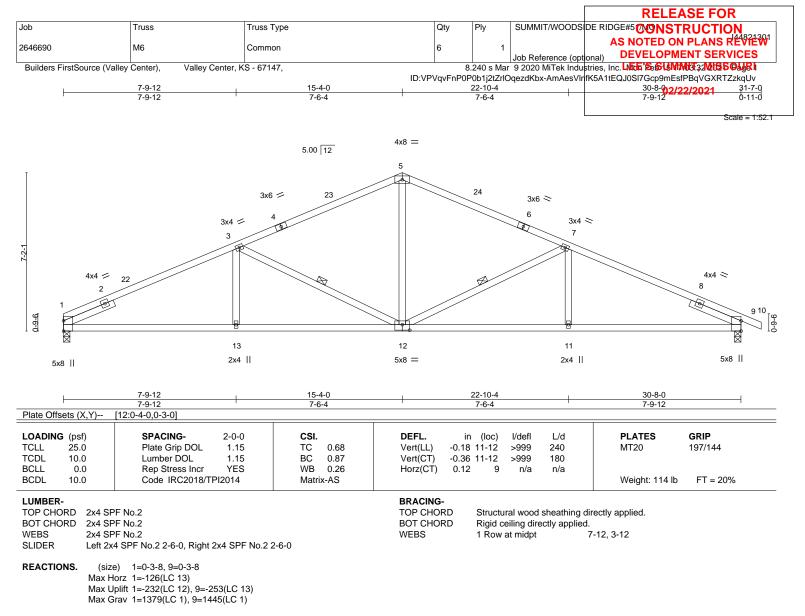
## 16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek









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

TOP CHORD 1-3=-2479/417, 3-5=-1828/362, 5-7=-1828/359, 7-9=-2474/416

BOT CHORD 1-13=-407/2216, 12-13=-407/2216, 11-12=-286/2210, 9-11=-286/2210

WEBS 5-12=-83/791, 7-12=-756/275, 7-11=0/271, 3-12=-763/276, 3-13=0/271

## NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-13, Interior(1) 3-0-13 to 15-4-0, Exterior(2R) 15-4-0 to 18-4-13 , Interior(1) 18-4-13 to 31-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

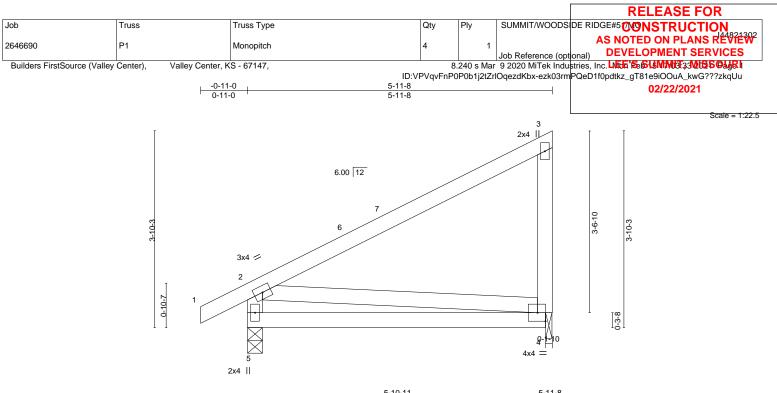
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=232, 9=253.

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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017



			5-10-11	0-0-13	
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.51	<b>DEFL.</b> in (loc Vert(LL) -0.06 4-5	, 5 >999 240	PLATES         GRIP           MT20         197/144
TCDL         10.0           BCLL         0.0           BCDL         10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.34 WB 0.08 Matrix-AS	Vert(CT) -0.12 4-5 Horz(CT) -0.00 4	5 >550 180 4 n/a n/a	Weight: 26 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

## LUMBER-

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

REACTIONS. 5=0-3-8, 4=0-1-8 (size) Max Horz 5=146(LC 11) Max Uplift 5=-63(LC 12), 4=-77(LC 12) Max Grav 5=336(LC 1), 4=248(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 4-5=-294/193

BOT CHORD

WEBS 2-5=-280/206, 2-4=-142/250

NOTES-

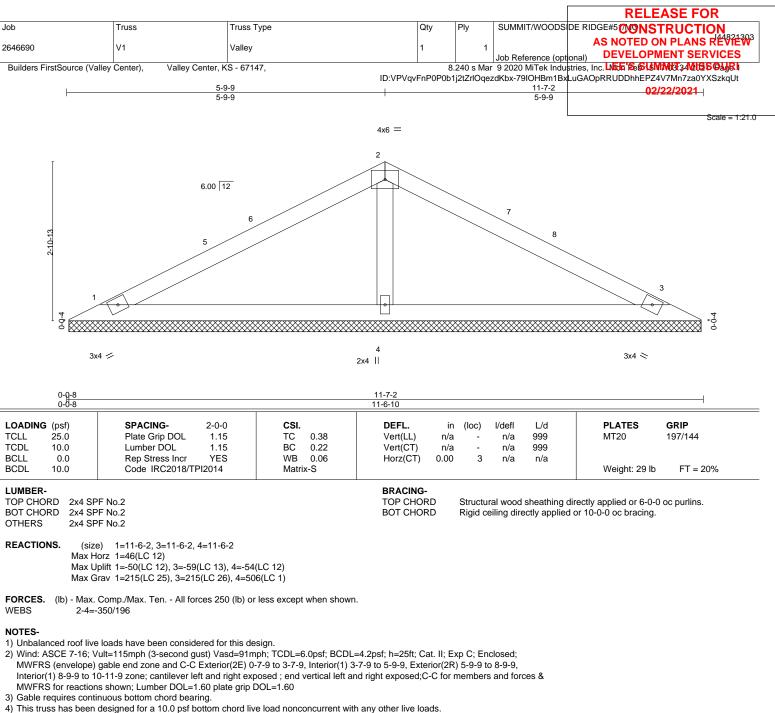
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.



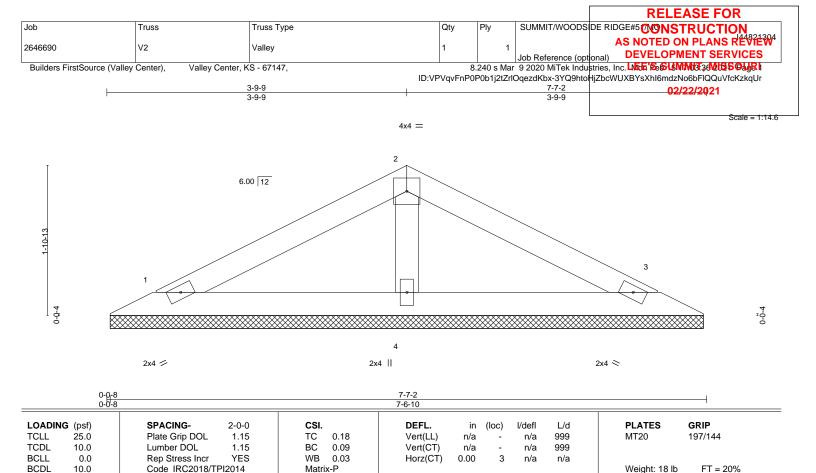


5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

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.







BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SPF No.2

REACTIONS. 1=7-6-2, 3=7-6-2, 4=7-6-2 (size) Max Horz 1=28(LC 16) Max Uplift 1=-37(LC 12), 3=-43(LC 13), 4=-20(LC 12) Max Grav 1=145(LC 1), 3=145(LC 1), 4=280(LC 1)

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

### NOTES-

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

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

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

3) Gable requires continuous bottom chord bearing.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

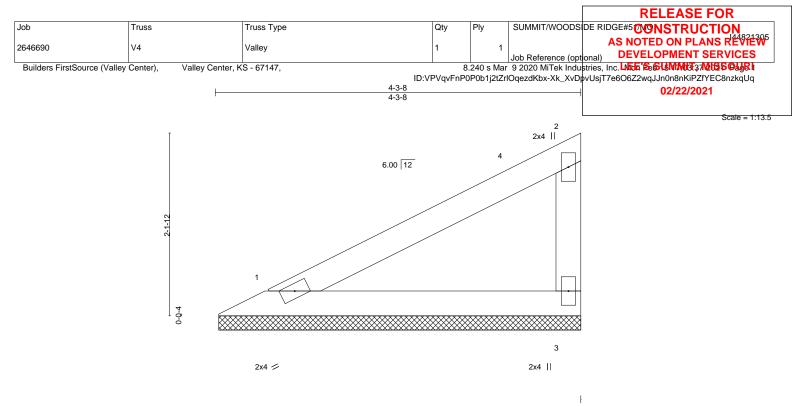
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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





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 0.23	Vert(LL)	n/a -	n/a	999	MT20	197/144
TCDL 10.0	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/TPI2014	Matrix-P					Weight: 11 lb	FT = 20%

LUMBER-TOP CHORD

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-3-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 1=4-3-0, 3=4-3-0 (size) Max Horz 1=73(LC 9)

Max Uplift 1=-27(LC 12), 3=-45(LC 12) Max Grav 1=158(LC 1), 3=158(LC 1)

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

NOTES-

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

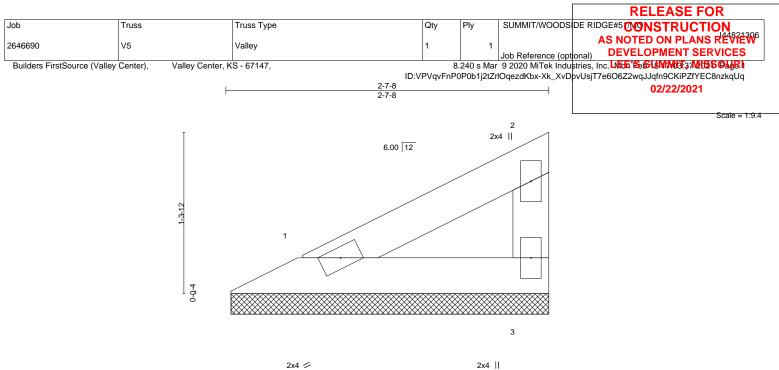
grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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







LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL)	n/a -	n/a	999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	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: 6 lb FT = 20%

LUMBER-

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-7-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-7-0, 3=2-7-0 Max Horz 1=39(LC 9) Max Uplift 1=-14(LC 12), 3=-24(LC 12) Max Grav 1=83(LC 1), 3=83(LC 1)

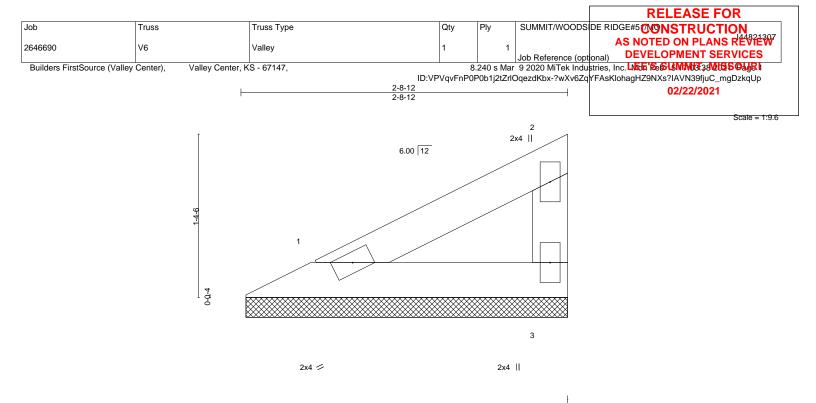
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

## NOTES-

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







LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15	<b>CSI.</b> TC 0.06 BC 0.03	<b>DEFL.</b> in (loo Vert(LL) n/a Vert(CT) n/a	c) l/defl - n/a - n/a	L/d 999 999	<b>PLATES GRIP</b> MT20 197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-P	Horz(CT) 0.00	3 n/a	n/a	Weight: 7 lb FT = 20%
LUMBER-	1		BRACING-			

BOT CHORD

TOP CHORD

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

REACTIONS. 1=2-8-4, 3=2-8-4 (size) Max Horz 1=41(LC 9) Max Uplift 1=-15(LC 12), 3=-25(LC 12)

Max Grav 1=88(LC 1), 3=88(LC 1)

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

### NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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.

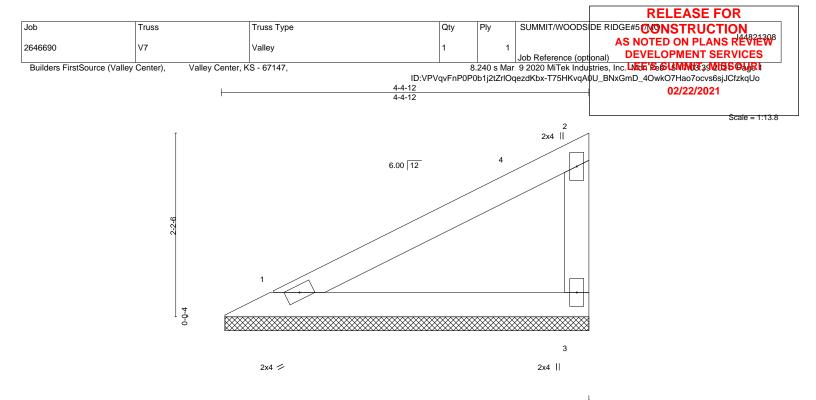


Structural wood sheathing directly applied or 2-8-12 oc purlins,

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

except end verticals.





LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) n	′a -	n/a	999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) n	′a -	n/a	999	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.0	0 3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	( )				Weight: 12 lb FT = 20%

BOT CHORD

TOP CHORD 2x4 SPF No.2

BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

REACTIONS. (size) 1=4-4-4, 3=4-4-4 Max Horz 1=76(LC 9)

Max Uplift 1=-27(LC 12), 3=-46(LC 12)

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

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

NOTES-

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

grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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

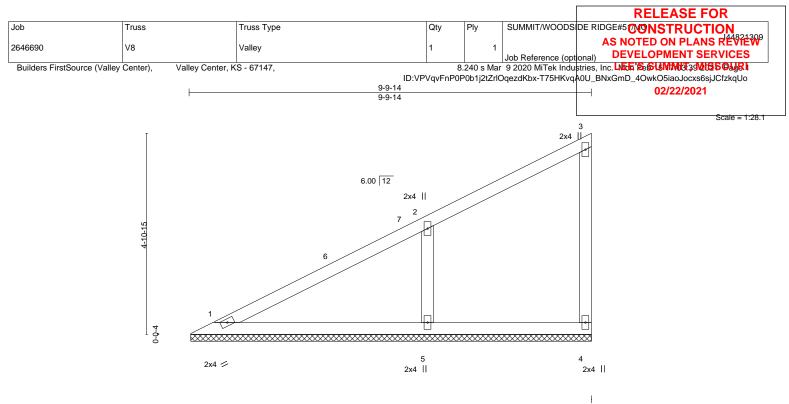


Structural wood sheathing directly applied or 4-4-12 oc purlins,

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

except end verticals.





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 0.34	Vert(LL) n/a	-	n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) n/a	-	n/a 999	
BCLL 0.0	Rep Stress Incr YES	WB 0.06	Horz(CT) -0.00	4	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	( )			Weight: 30 lb FT = 20%

BOT CHORD

#### LUMBER-

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 OTHERS
 2x4 SPF No.2

REACTIONS. (size) 1=9-9-6, 4=9-9-6, 5=9-9-6 Max Horz 1=188(LC 9)

Max Uplift 1=-2(LC 12), 4=-33(LC 9), 5=-141(LC 12)

Max Grav 1=189(LC 1), 4=113(LC 1), 5=512(LC 1)

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

TOP CHORD 1-2=-268/178 WEBS 2-5=-387/278

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=141.

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

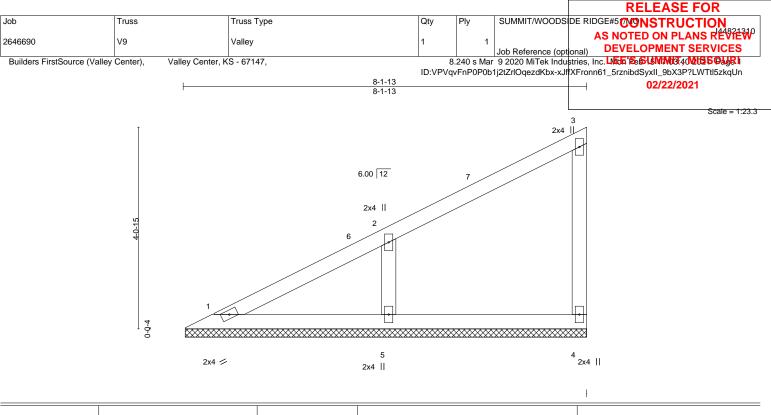


Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.





LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.22 BC 0.11 WB 0.05 Matrix-P	DEFL. i Vert(LL) n/. Vert(CT) n/. Horz(CT) -0.00	a -	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES         GRIP           MT20         197/144           Weight: 25 lb         FT = 20%
BOT CHORD 2x4 SF WEBS 2x4 SF	PF No.2 PF No.2 PF No.2 PF No.2		BRACING- TOP CHORD BOT CHORD	except	end verticals.	directly applied or 6-0-0 oc purlins, d or 10-0-0 oc bracing.
Max H Max U	e) 1=8-1-5, 4=8-1-5, 5=8-1-5 lorz 1=154(LC 9) lplift 4=-31(LC 9), 5=-130(LC 12) irav 1=121(LC 20), 4=134(LC 1), 5=415	(LC 1)				
( )	Comp./Max. Ten All forces 250 (lb) of -255/161	less except when shown.				

WEBS 2-5=-323/270

NOTES-

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

2) Gable requires continuous bottom chord bearing.

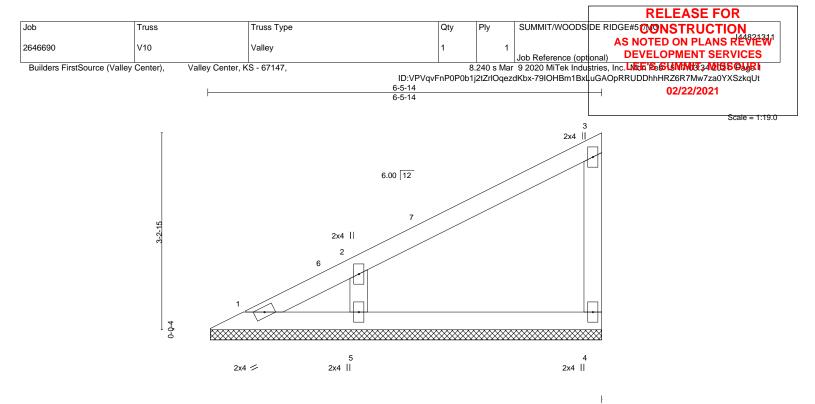
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=130.

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







LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL)	n/a -	n/a	999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT)	n/a -	n/a	999	
BCLL 0.0	Rep Stress Incr YES	WB 0.05	Horz(CT)	0.00 4	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 19 lb FT = 20%

BOT CHORD

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

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

Max Horz 1=119(LC 9) Max Uplift 4=-37(LC 12), 5=-121(LC 12)

Max Grav 1=46(LC 9), 4=141(LC 1), 5=357(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-5=-277/272WEBS

#### NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=121.

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

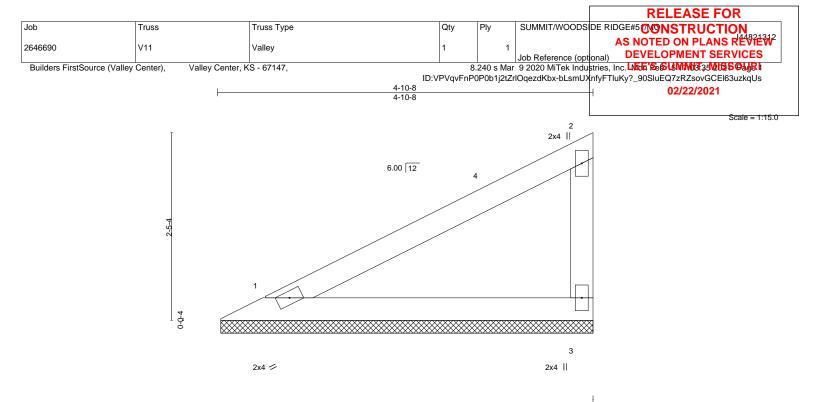


Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.





OADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. ir	(loc)	l/defl	L/d	PLATES GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL) n/a	-	n/a	999	MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) n/a	-	n/a	999	
CLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	3	n/a	n/a	
SCDL 10.0	Code IRC2018/TPI2014	Matrix-P	( )				Weight: 13 lb FT = 20%

BOT CHORD

TOP CHORD 2x4 SPF No.2

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 1=4-10-0, 3=4-10-0 Max Horz 1=86(LC 9) Max Uplift 1=-31(LC 12), 3=-53(LC 12)

Max Grav 1=184(LC 1), 3=184(LC 1)

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

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 4-8-12 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate

grip DOL=1.60

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.

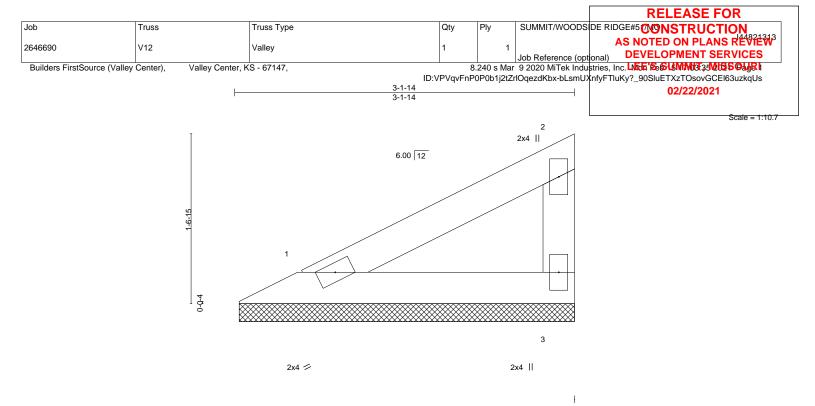
February 16,2021

Structural wood sheathing directly applied or 4-10-8 oc purlins,

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

except end verticals.





OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl L/	d PLATES GRIP	
CLL 25.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL)	n/a -	n/a 99	9 MT20 197/144	
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT)	n/a -	n/a 99	9	
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: 8 lb FT = 2	20%

BOT CHORD

TOP CHORD

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

REACTIONS. 1=3-1-6, 3=3-1-6 (size) Max Horz 1=50(LC 9) Max Uplift 1=-18(LC 12), 3=-31(LC 12)

Max Grav 1=107(LC 1), 3=107(LC 1)

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

## NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

# OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 0 SSIONAL F February 16,2021

Structural wood sheathing directly applied or 3-1-14 oc purlins,

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

except end verticals.



