



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

Re: 3008841 C&H/159 COBEY CREEK/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: I49431985 thru I49432010

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193

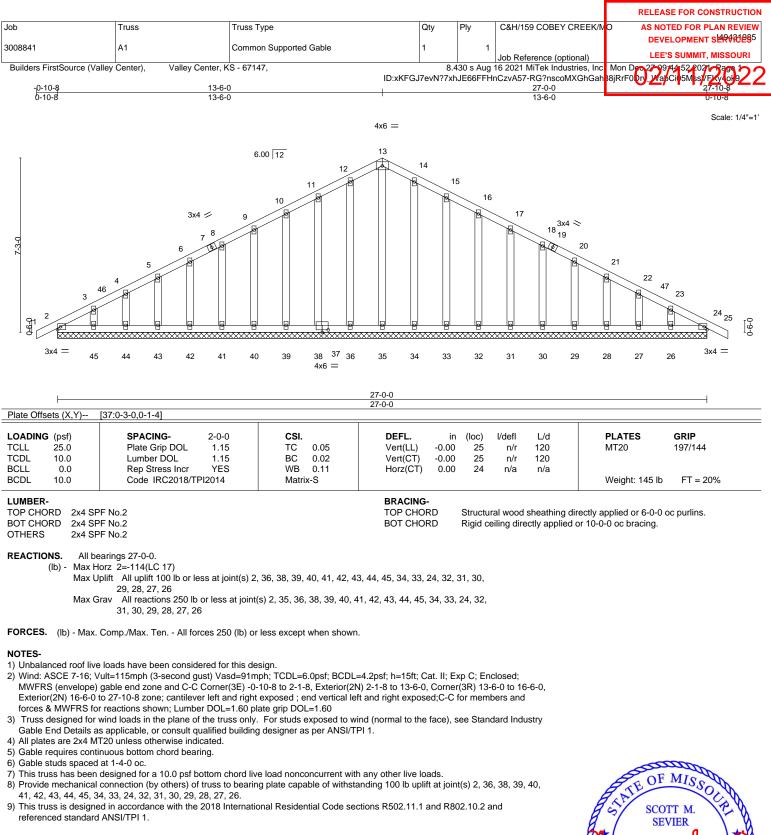


Sevier, Scott

December 28,2021

**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.

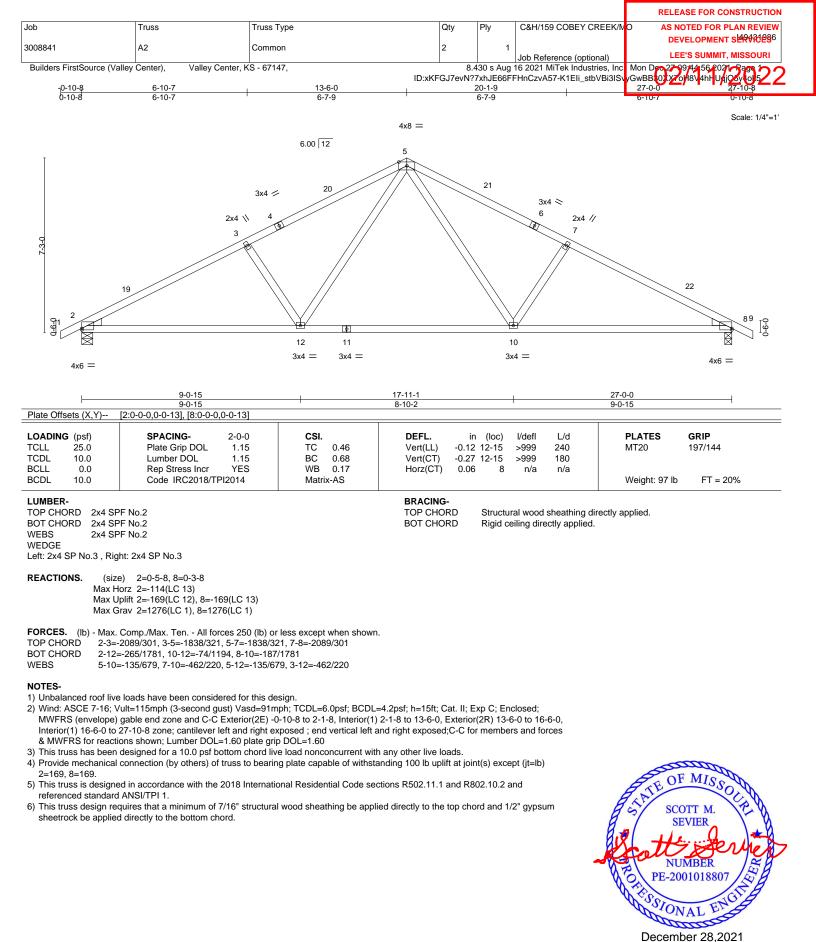
,Engineer



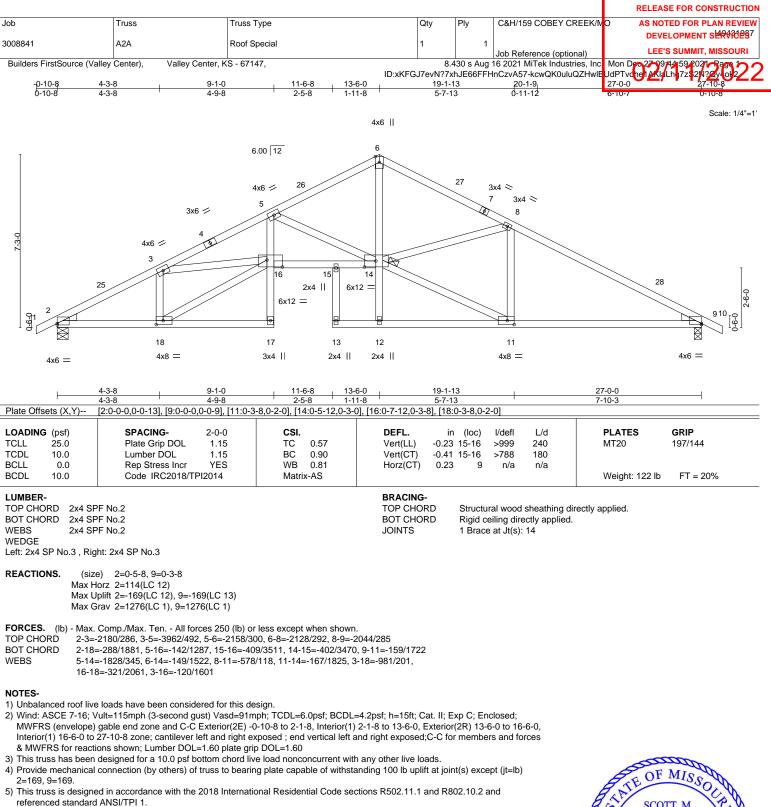


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6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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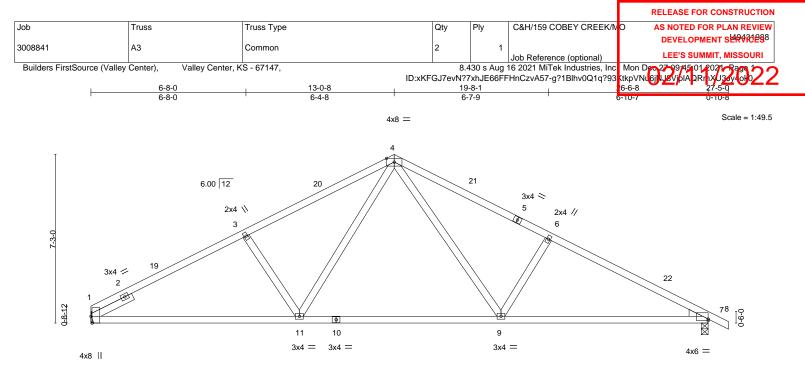


Plate Offsets (X,Y)	8-11-9 8-11-9 [1:0-3-8,Edge], [7:0-0-0,0-0-13]		17-7-10 8-8-1		26-6-8 3-10-14
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.46 BC 0.66 WB 0.18 Matrix-AS	DEFL.         in         (loc)           Vert(LL)         -0.11         9-18           Vert(CT)         -0.25         9-11           Horz(CT)         0.06         7	l/defl L/d >999 240 >999 180 n/a n/a	PLATES         GRIP           MT20         197/144           Weight:         96 lb         FT = 20%
LUMBER-	PF No.2	Matrix-AS	BRACING- TOP CHORD Struct	ural wood sheathing dire	

BOT CHORD

Rigid ceiling directly applied.

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 WEDGE
 Right: 2x4 SP No.3

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

REACTIONS. (size) 1=Mechanical, 7=0-3-8

Max Horz 1=-125(LC 13) Max Uplift 1=-147(LC 12), 7=-168(LC 13) Max Grav 1=1193(LC 1), 7=1257(LC 1)

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

TOP CHORD 1-3=-1901/296, 3-4=-1704/315, 4-6=-1814/325, 6-7=-2050/300

BOT CHORD 1-11=-241/1633, 9-11=-69/1156, 7-9=-188/1746

WEBS 3-11=-403/206, 4-11=-120/590, 4-9=-143/693, 6-9=-458/220

# 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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 13-0-8, Exterior(2R) 13-0-8 to 16-0-8, Interior(1) 16-0-8 to 27-5-0 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) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=147, 7=168.

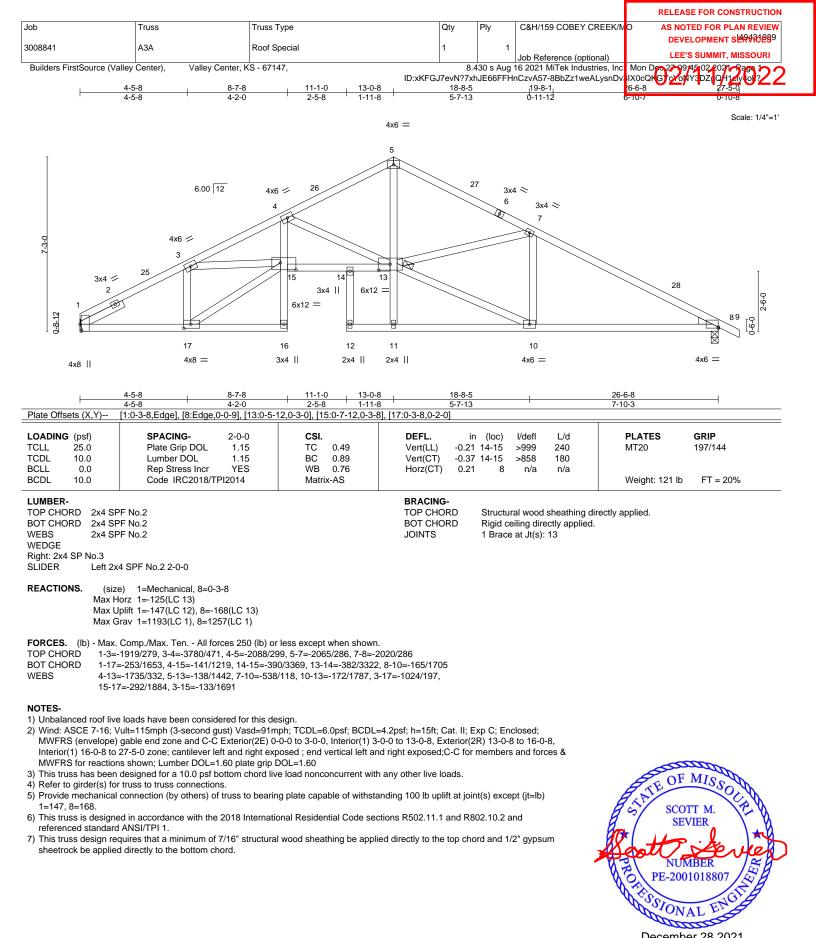
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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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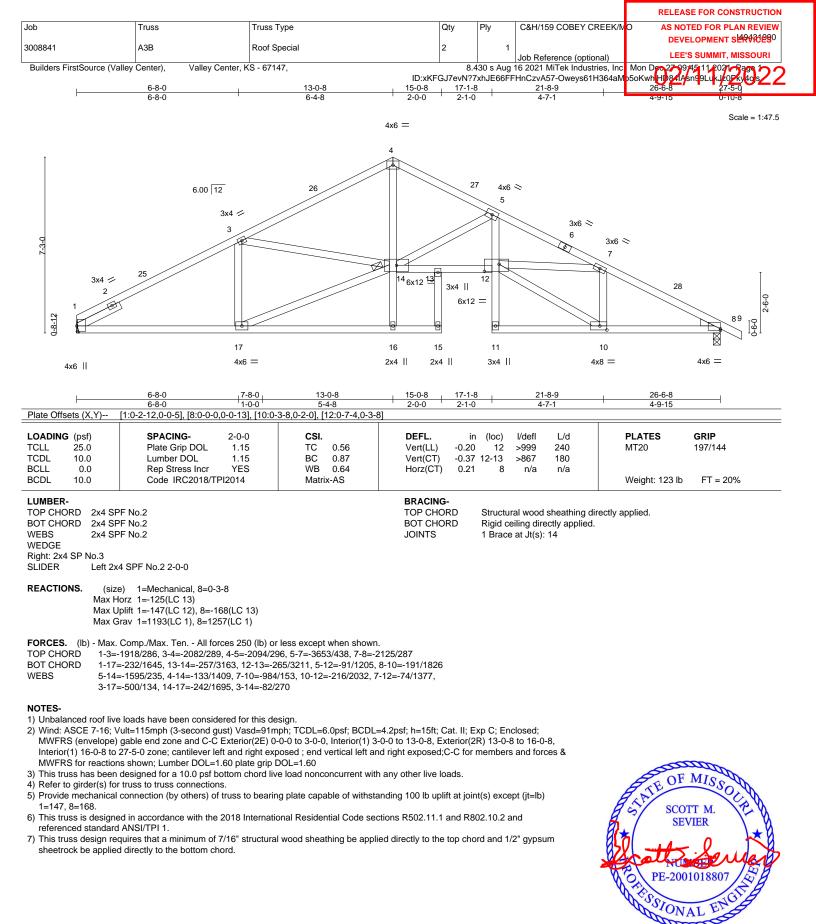




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

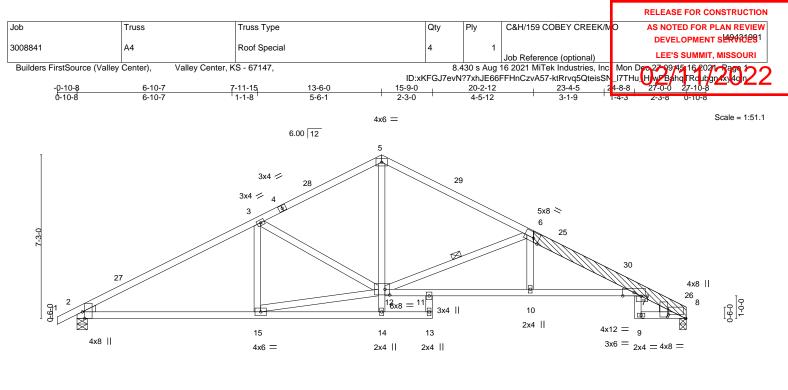


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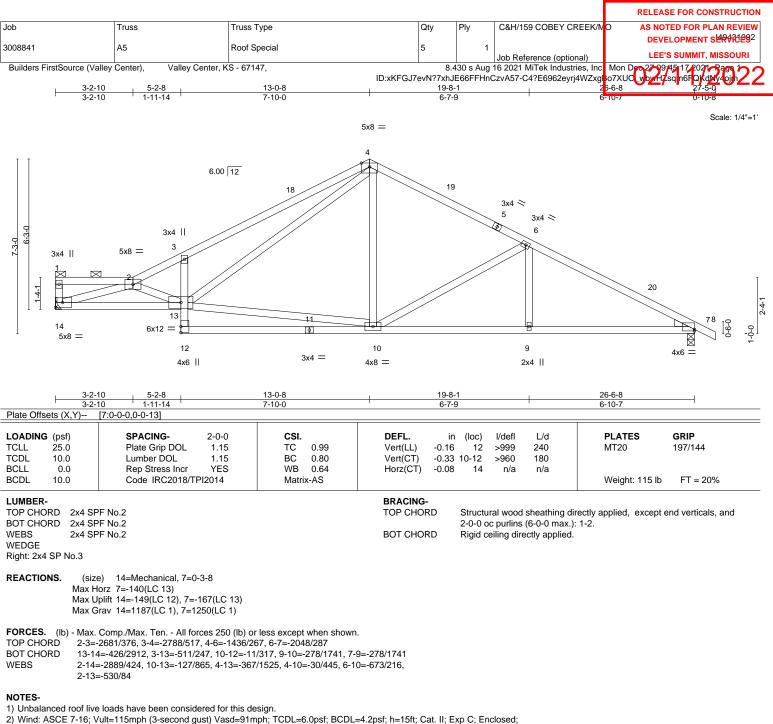
<b>—</b>	7-11-15	<u>13-6-0</u> 5-6-1	15-9-0	<u>20-2-12</u> 4-5-12	24-8-8	27-0-0	
Plate Offsets (X,Y)	[2:0-3-8,Edge], [6:0-3-0,Edge], [7:0-3-7				4-5-12	2-3-0	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.53 BC 0.89 WB 0.40 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/defl -0.19 10-21 >999 -0.36 10-11 >907 0.20 8 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 135 lb	<b>GRIP</b> 197/144 FT = 20%
6-8: 2x BOT CHORD 2x4 SF WEBS 2x4 SF OTHERS 2x6 SF LBR SCAB 6-8 2x6 WEDGE Left: 2x4 SPF No.2 , R REACTIONS. (siz Max H Max U	PF No.2 *Except* 6 SP 2400F 2.0E PF No.2 P 2400F 2.0E 6 SP 2400F 2.0E 6 SP 2400F 2.0E one side ight: 2x4 SPF No.2 e) 2=0-5-8, 8=0-3-8 lorz 2=120(LC 16) Uplift 2=-169(LC 12), 8=-152(LC 13) Grav 2=1276(LC 1), 8=1212(LC 1)		BRACING- TOP CHOF BOT CHOF WEBS	D Structural wood	sheathing directly ectly applied. 6-12	y applied.	
TOP CHORD 2-3= BOT CHORD 2-15=	Comp./Max. Ten All forces 250 (lb) o -2025/287, 3-5=-1634/277, 5-6=-1687/2 =-234/1719, 11-12=-229/2467, 10-11=-2 =-110/1018, 12-15=-199/1615, 3-12=-48	77, 6-7=-2714/374, 7-8=-4 272/2551, 7-10=-274/2540	485/91 )				
<ul> <li>0-0-8 from end at joi</li> <li>2) Unbalanced roof live</li> <li>3) Wind: ASCE 7-16; W</li> <li>MWFRS (envelope) Interior(1) 16-6-0 to &amp; MWFRS for reacti</li> <li>4) This truss has been</li> <li>5) Bearing at joint(s) 8</li> <li>capacity of bearing at</li> <li>6) Provide mechanical 2=169, 8=152.</li> </ul>	<ul> <li>b 6 to 8, front face(s) 2x6 SP 2400F 2.0E</li> <li>int 6, nail 2 row(s) at 7" o.c. for 2-0-0; sta</li> <li>e loads have been considered for this de</li> <li>/ult=115mph (3-second gust) Vasd=91m</li> <li>gable end zone and C-C Exterior(2E) - (26-11-11 zone; cantilever left and right is considered for a 10.0 psf bottom chord live considers parallel to grain value using A surface.</li> <li>connection (by others) of truss to bearing ed in accordance with the 2018 International constant is constant in the constant in the constant in the constant is constant in the constant is constant in the constant is constant in the con</li></ul>	arting at 3-2-3 from end a ssign. pp; TCDL=6.0psf; BCDL= 0-10-8 to 2-1-8, Interior(1) exposed ; end vertical left p DOL=1.60 re load nonconcurrent with NNSI/TPI 1 angle to grain ng plate capable of withsta	t joint 6, nail 2 row =4.2psf; h=15ft; Ca ) 2-1-8 to 13-6-0, E and right exposed h any other live loa formula. Building anding 100 lb uplif	(s) at 4" o.c. for 4-4-5. at. II; Exp C; Enclosed; ixterior(2R) 13-6-0 to 16 ;C-C for members and ads. designer should verify t at joint(s) except (jt=lb)	-6-0, forces	* SEV	MISSOLA TT M. VIER

2.11.1 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.



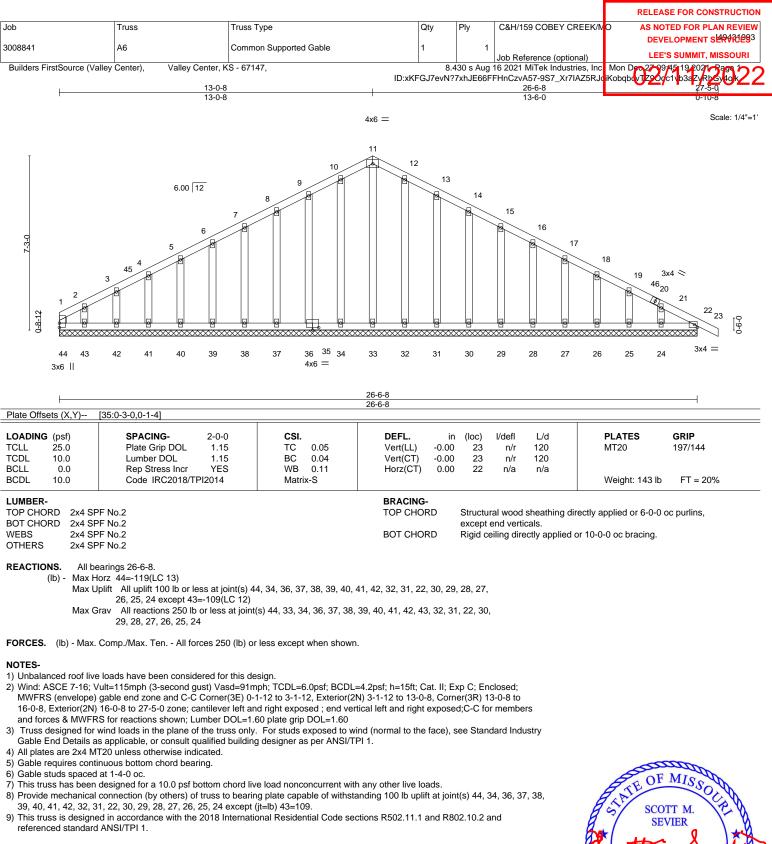
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- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-2-10, Interior(1) 3-2-10 to 13-0-8, Exterior(2R) 13-0-8 to 16-0-8 , Interior(1) 16-0-8 to 27-5-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=149, 7=167.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





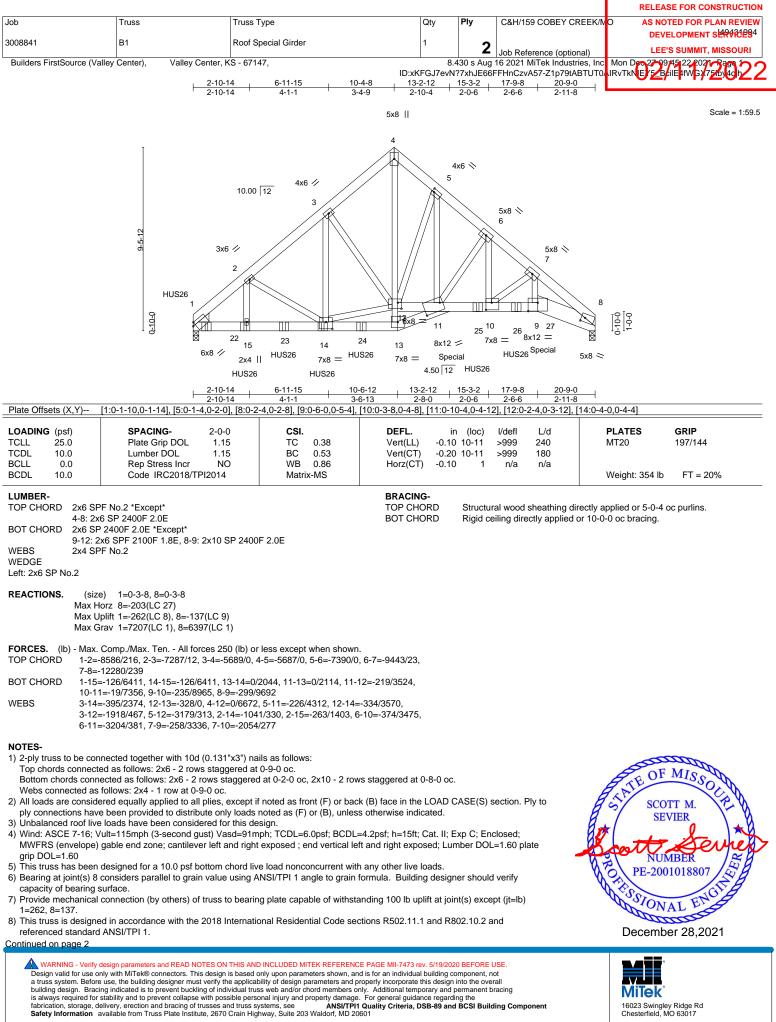




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					1	RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	C&H/159 COBEY CREEK/N	O AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
3008841	B1	Roof Special Girder	1	2	lah Dafamaa (antianal)	LEE'S SUMMIT, MISSOURI
Builders FirstSourc	e (Valley Center), Valle	ey Center, KS - 67147,	8	.430 s Aua	Job Reference (optional) 16 2021 MiTek Industries, Inc	Mon Dep 27-99/45/22/2021 Rags 2
NOTES-			ID:xKFGJ7evN	I?7xhJE66	FFHnCzvA57-Z1p79tABTUT0	
9) Load case(s) 1,		1, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,		29, 30, 31,	32, 33, 34, 35, 36, 37, 38, 3	9, 40 has/have been
		bads to verify that they are correct for the in d Girder, 4-10d Truss) or equivalent spaced		a at 0-8-4	from the left end to 8-8-4 to	connect truss(es) to
front face of bo	ottom chord.			•		
11) Use Simpson front face of bo	0	d Girder, 4-10d Truss) or equivalent spaced	at 2-0-0 oc max. starting	g at 14-8-4	from the left end to 16-8-4	to connect truss(es) to
12) Fill all nail hole	es where hanger is in conta					
		shall be provided sufficient to support conc ign/selection of such connection device(s) is			169 lb up at 12-7-0, and 1	167 lb down and 169 lb
LOAD CASE(S)	Standard					
• • •		rease=1.15, Plate Increase=1.15				
Uniform Loads	u ,	0, 11-13=-20, 9-11=-20, 9-19=-20				
Concentrated L	oads (lb)					
		1=-1167(F) 15=-1173(F) 22=-1176(F) 23=- er Increase=1.15, Plate Increase=1.15	1173(F) 24=-1173(F) 25	=-1167(F)	26=-1167(F) 27=-1167(F)	
Uniform Loads	(plf)					
Vert: 1- Concentrated L		0, 11-13=-20, 9-11=-20, 9-19=-20				
Vert: 12	2=-1200(F) 14=-1008(F) 1	1=-1002(F) 15=-1008(F) 22=-1011(F) 23=-		=-1002(F)	26=-1002(F) 27=-1002(F)	
<ol> <li>Dead + Uninhat Uniform Loads (</li> </ol>		ge: Lumber Increase=1.25, Plate Increase=	1.25			
Vert: 1-	-4=-20, 4-8=-20, 13-16=-4	0, 11-13=-40, 9-11=-40, 9-19=-40				
Concentrated L Vert: 12	. ,	=-752(F) 15=-756(F) 22=-762(F) 23=-756(F)	F) 24=-756(F) 25=-752(F	) 26=-752	(F) 27=-752(F)	
,	( )	Left: Lumber Increase=1.60, Plate Increase	e=1.60			
Uniform Loads Vert: 1-		1-13=-8, 9-11=-8, 9-19=-8				
Horz: 1 Concentrated L	I-4=3, 4-8=21					
Vert: 12	2=-1200(F) 14=155(F) 11=	=157(F) 15=155(F) 22=154(F) 23=155(F) 24		157(F) 27	=157(F)	
<ol> <li>Dead + 0.6 MW Uniform Loads</li> </ol>		Right: Lumber Increase=1.60, Plate Increas	se=1.60			
Vert: 1-	-4=9, 4-8=-15, 13-16=-8, 1	1-13=-8, 9-11=-8, 9-19=-8				
Horz: 1 Concentrated L	I-4=-21, 4-8=-3 .oads (lb)					
Vert: 12	2=-1200(F) 14=155(F) 11=	=157(F) 15=155(F) 22=154(F) 23=155(F) 24	() ()	157(F) 27	=157(F)	
<li>bead + 0.6 MW Uniform Loads (</li>	,	Left: Lumber Increase=1.60, Plate Increase	9=1.60			
		0, 11-13=-20, 9-11=-20, 9-19=-20				
Concentrated L	I-4=13, 4-8=10 oads (lb)					
		=169(F) 15=167(F) 22=164(F) 23=167(F) 24 Right: Lumber Increase=1.60, Plate Increase		169(F) 27	=169(F)	
Uniform Loads	(plf)		30-1.00			
	-4=-10, 4-8=-33, 13-16=-20 I-4=-10, 4-8=-13	0, 11-13=-20, 9-11=-20, 9-19=-20				
Concentrated L	oads (lb)					
		=169(F) 15=167(F) 22=164(F) 23=167(F) 24 1st Parallel: Lumber Increase=1.60, Plate I		169(F) 27:	=169(F)	
Uniform Loads	u /					
	-4=25, 4-8=9, 13-16=-8, 1´ I-4=-37, 4-8=21	1-13=-8, 9-11=-8, 9-19=-8				
Concentrated L		=157(F) 15=155(F) 22=154(F) 23=155(F) 24	4–155(F) 25–157(F) 26–	157(E) 27	–157(F)	
9) Dead + 0.6 MW	FRS Wind (Pos. Internal)	2nd Parallel: Lumber Increase=1.60, Plate		107(1)27	=107(1)	
Uniform Loads	(plf) -4=9, 4-8=25, 13-16=-8, 1′	1-13=-8, 9-11=-8, 9-19=-8				
Horz: 1	-4=-21, 4-8=37	,,				
Concentrated Lo Vert: 12		=157(F) 15=155(F) 22=154(F) 23=155(F) 24	4=155(F) 25=157(F) 26=	157(F) 27	=157(F)	
10) Dead + 0.6 M	WFRS Wind (Pos. Internal	) 3rd Parallel: Lumber Increase=1.60, Plate				
Uniform Loads Vert:	u ,	11-13=-8, 9-11=-8, 9-19=-8				
	1-4=-26, 4-8=16					
	12=-1200(F) 14=155(F) 11	1=157(F) 15=155(F) 22=154(F) 23=155(F) 2		=157(F) 2	7=157(F)	
11) Dead + 0.6 MV Uniform Loads		) 4th Parallel: Lumber Increase=1.60, Plate	Increase=1.60			
Vert:	1-4=4, 4-8=14, 13-16=-8,	11-13=-8, 9-11=-8, 9-19=-8				
Horz: Concentrated	1-4=-16, 4-8=26					
	12=-1200(F) 14=155(F) 11	1=157(F) 15=155(F) 22=154(F) 23=155(F) 2	24-155(E) 25-157(E) 26	-157(F) 2	7–157(F)	
	WFRS Wind (Neg. Internal			-137(1)2	1=101(1)	

# Continued on page 3



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	C&H/159 COBEY CREEK/N	O AS NOTED FOR PLAN REVIEW DEVELOPMENT SLAR HP2024
3008841	B1	Roof Special Girder	1	2	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valley	Center), Valley Center, H		8.	430 s Aug 1	6 2021 MiTek Industries, Inc	
			ID.XKFGJ7evi		гппс2vA37-21р79IAB1010.	
LOAD CASE(S) Standard Uniform Loads (plf)	d					
u ,	-8=-10, 13-16=-20, 11-13=-2	0, 9-11=-20, 9-19=-20				
Concentrated Loads (I	b)					
		5=167(F) 22=164(F) 23=167(F) 24=167(F) Ilel: Lumber Increase=1.60, Plate Increase=	( )	=169(F) 27	=169(F)	
Uniform Loads (plf)	, 4-8=6, 13-16=-20, 11-13=-2	0 9-1120 9-1920				
Horz: 1-4=-10	, 4-8=26	0, 5 11- 20, 5 15- 20				
Concentrated Loads (I Vert: 12=-120		5=167(F) 22=164(F) 23=167(F) 24=167(F)	25=169(F) 26	=169(F) 27	<sup>2</sup> =169(F)	
14) Dead: Lumber Increas Uniform Loads (plf)	e=0.90, Plate Increase=0.90	Plt. metal=0.90				
Vert: 1-4=-20,	, 4-8=-20, 13-16=-20, 11-13=	-20, 9-11=-20, 9-19=-20				
Concentrated Loads (I Vert: 12=-120	/	15=-511(F) 22=-514(F) 23=-511(F) 24=-51	1(F) 25=-508(	F) 26=-508	(F) 27=-508(F)	
15) Dead + 0.75 Roof Live Uniform Loads (plf)	e (bal.) + 0.75(0.6 MWFRS W	(ind (Neg. Int) Left): Lumber Increase=1.60,	, Plate Increas	e=1.60		
Vert: 1-4=-67,	, 4-8=-50, 13-16=-20, 11-13=	-20, 9-11=-20, 9-19=-20				
Horz: 1-4=10, Concentrated Loads (I						
		63(F) 22=59(F) 23=63(F) 24=63(F) 25=64( /ind (Neg. Int) Right): Lumber Increase=1.6				
Uniform Loads (plf)				130-1.00		
Vert: 1-4=-50, Horz: 1-4=-8,	, 4-8=-67, 13-16=-20, 11-13= 4-8=-10	-20, 9-11=-20, 9-19=-20				
Concentrated Loads (I Vert: 12=-120		63(F) 22=59(F) 23=63(F) 24=63(F) 25=64(	F) 26=64(F) 2	7=64(F)		
17) Dead + 0.75 Roof Live		ind (Neg. Int) 1st Parallel): Lumber Increas			1.60	
	, 4-8=-50, 13-16=-20, 11-13=	-20, 9-11=-20, 9-19=-20				
Horz: 1-4=-20 Concentrated Loads (I						
Vert: 12=-120	0(F) 14=63(F) 11=64(F) 15=	63(F) 22=59(F) 23=63(F) 24=63(F) 25=64( /ind (Neg. Int) 2nd Parallel): Lumber Increa			1 60	
Uniform Loads (plf)			se=1.00, Flate	increase=	1.00	
Vert: 1-4=-50, Horz: 1-4=-8,	, 4-8=-38, 13-16=-20, 11-13= 4-8=20	-20, 9-11=-20, 9-19=-20				
Concentrated Loads (I		63(F) 22=59(F) 23=63(F) 24=63(F) 25=64(	E) 26-64(E) 2	7-64(F)		
19) Dead + 0.6 MWFRS V		se=1.60, Plate Increase=1.60	1)20-01(1)2	-01(1)		
Uniform Loads (plf) Vert: 1-4=-17,	, 4-8=-12, 13-16=-8, 11-13=-	8, 9-11=-8, 9-19=-8				
Horz: 1-4=5 Concentrated Loads (I	b)					
Vert: 12=-120	0(F) 14=85(F) 11=88(F) 15=	85(F) 22=84(F) 23=85(F) 24=85(F) 25=88(F)	F) 26=88(F) 2	7=88(F)		
Uniform Loads (plf)	Ū	ease=1.60, Plate Increase=1.60				
Vert: 1-4=-12, Horz: 4-8=-5	, 4-8=-17, 13-16=-8, 11-13=-	3, 9-11=-8, 9-19=-8				
Concentrated Loads (I		85(F) 22=84(F) 23=85(F) 24=85(F) 25=88(I	F) 26-88(F) 2	7-88(F)		
21) 1st Dead + Roof Live		se=1.15, Plate Increase=1.15	1)20-00(1)2	-00(1)		
Uniform Loads (plf) Vert: 1-4=-70,	, 4-8=-20, 13-16=-20, 11-13=	-20, 9-11=-20, 9-19=-20				
Concentrated Loads (I Vert: 12=-120		F) 15=-1173(F) 22=-1176(F) 23=-1173(F) 2	24=-1173(F) 2	5=-1167(F)	26=-1167(F)	
27=-1167(F)	., ., .,	, , , , , , , , , , , , , , , , , , , ,			20	
Uniform Loads (plf)	· · · ·	ase=1.15, Plate Increase=1.15				
Vert: 1-4=-20, Concentrated Loads (I	, 4-8=-70, 13-16=-20, 11-13= b)	-20, 9-11=-20, 9-19=-20				
		F) 15=-1173(F) 22=-1176(F) 23=-1173(F) 2	24=-1173(F) 2	5=-1167(F)	26=-1167(F)	
23) 3rd Dead + 0.75 Roof	Live (unbalanced): Lumber I	ncrease=1.15, Plate Increase=1.15				
Uniform Loads (plf) Vert: 1-4=-58,	, 4-8=-20, 13-16=-20, 11-13=	-20, 9-11=-20, 9-19=-20				
Concentrated Loads (I Vert: 12=-120		F) 15=-1008(F) 22=-1011(F) 23=-1008(F) 2	24=-1008(F) 2	5=-1002(F)	26=-1002(F)	
27=-1002(F) 24) 4th Dead + 0.75 Roof	Live (unbalanced): Lumber li	ncrease=1.15, Plate Increase=1.15				
Uniform Loads (plf) Vert: 1-4=-20.	, 4-8=-58, 13-16=-20, 11-13=	-20. 9-11=-20. 9-19=-20				
vont. 1 4=-20,	,					

Continued on page 4



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	C&H/159 COBEY CREEK/M	
3008841	B1	Roof Special Girder	1	2		DEVELOPMENT S≝R∜R21294 LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valley	Center), Valley Center, H	 KS - 67147,	8.4	130 s Aug 1	Job Reference (optional) 6 2021 MiTek Industries, Inc	Mon Den 27-99:45:22.2021 Ram 40
			ID:xKFGJ7evN	?7xhJE66F	FHnCzvA57-Z1p79tABTUT0/	
LOAD CASE(S) Standard						
Concentrated Loads (I Vert: 12=-120		F) 15=-1008(F) 22=-1011(F) 23=-1008(F)	) 24=-1008(F) 25	=-1002(F)	26=-1002(F) 27=-1002(F)	
25) Reversal: Dead + 0.6 Uniform Loads (plf)	MWFRS Wind (Pos. Internal)	Left: Lumber Increase=1.60, Plate Increa	ase=1.60			
Vert: 1-4=-15	, 4-8=9, 13-16=-8, 11-13=-8,	9-11=-8, 9-19=-8				
Horz: 1-4=3, 4 Concentrated Loads (I						
Vert: 12=-120	00(F) 14=-499(F) 11=-460(F)	15=-499(F) 22=-500(F) 23=-499(F) 24=-4		-) 26=-460	(F) 27=-460(F)	
26) Reversal: Dead + 0.6 Uniform Loads (plf)	MWFRS Wind (Pos. Internal)	Right: Lumber Increase=1.60, Plate Incr	ease=1.60			
Vert: 1-4=9, 4 Horz: 1-4=-21	-8=-15, 13-16=-8, 11-13=-8,	9-11=-8, 9-19=-8				
Concentrated Loads (I	lb)					
		15=-499(F) 22=-500(F) 23=-499(F) 24=-4 Left: Lumber Increase=1.60, Plate Incre		-) 26=-460	(F) 27=-460(F)	
Uniform Loads (plf)						
Vert: 1-4=-33 Horz: 1-4=13,	, 4-8=-10, 13-16=-20, 11-13= , 4-8=10	-20, 9-11=-20, 9-19=-20				
Concentrated Loads (I		1E 407/E) 22 401/E) 22 407/E) 24 /	197/E) 26 - 440/E	-) 26- 440	(E) 27 440(E)	
	() ()	15=-487(F) 22=-491(F) 23=-487(F) 24=-4 Right: Lumber Increase=1.60, Plate Incr	( )	-) 26=-448	(F) 27=-449(F)	
Uniform Loads (plf)	, 4-8=-33, 13-16=-20, 11-13=	-20 9-1120 9-1920				
Horz: 1-4=-10	), 4-8=-13	-20, 3-1120, 3-1320				
Concentrated Loads (I Vert: 12=-120	,	15=-487(F) 22=-491(F) 23=-487(F) 24=-4	187(F) 25=-449(F	-) 26=-449	(F) 27=-449(F)	
29) Reversal: Dead + 0.6		1st Parallel: Lumber Increase=1.60, Plat				
Uniform Loads (plf) Vert: 1-4=25,	4-8=9, 13-16=-8, 11-13=-8, 9	9-11=-8, 9-19=-8				
Horz: 1-4=-37 Concentrated Loads (I	,					
Vert: 12=-120	00(F) 14=-499(F) 11=-460(F)	15=-499(F) 22=-500(F) 23=-499(F) 24=-4			(F) 27=-460(F)	
30) Reversal: Dead + 0.6 Uniform Loads (plf)	MWFRS Wind (Pos. Internal)	2nd Parallel: Lumber Increase=1.60, Pla	te Increase=1.60	C		
Vert: 1-4=9, 4	-8=25, 13-16=-8, 11-13=-8, 9	9-11=-8, 9-19=-8				
Horz: 1-4=-21 Concentrated Loads (I						
		15=-499(F) 22=-500(F) 23=-499(F) 24=-4 3rd Parallel: Lumber Increase=1.60, Plat			(F) 27=-460(F)	
Uniform Loads (plf)				, 		
Vert: 1-4=14, Horz: 1-4=-26	4-8=4, 13-16=-8, 11-13=-8, § 6, 4-8=16	9-11=-8, 9-19=-8				
Concentrated Loads (I		15=-499(F) 22=-500(F) 23=-499(F) 24=-4	100/E) 25- 460/E	-) 26- 460	(E) 27- 460(E)	
		4th Parallel: Lumber Increase=1.60, Plat			(F) 27=-400(F)	
Uniform Loads (plf) Vert: 1-4=4 4	-8=14, 13-16=-8, 11-13=-8, 9	9-11=-8 9-19=-8				
Horz: 1-4=-16	6, 4-8=26					
Concentrated Loads (I Vert: 12=-120		15=-499(F) 22=-500(F) 23=-499(F) 24=-4	199(F) 25=-460(F	-) 26=-460	(F)	
27=-460(F)	MWERS Wind (Neg. Internal	1st Parallel: Lumber Increase=1.60, Pla	to Increase-1.60			
Uniform Loads (plf)				,		
Vert: 1-4=6, 4 Horz: 1-4=-26	ŀ-8=-10, 13-16=-20, 11-13=-2 δ. 4-8=10	0, 9-11=-20, 9-19=-20				
Concentrated Loads (I	lb)	45 407/5) 22 404/5) 22 407/5) 24 /		-) 00 440		
27=-449(F)	DU(F) 14=-487(F) 11=-449(F)	15=-487(F) 22=-491(F) 23=-487(F) 24=-4	187(F) 25=-449(f	-) 26=-448	(F)	
34) Reversal: Dead + 0.6 Uniform Loads (plf)	MWFRS Wind (Neg. Internal	2nd Parallel: Lumber Increase=1.60, Pla	ate Increase=1.6	0		
Vert: 1-4=-10	, 4-8=6, 13-16=-20, 11-13=-2	0, 9-11=-20, 9-19=-20				
Horz: 1-4=-10 Concentrated Loads (I						
Vert: 12=-120 27=-449(F)	00(F) 14=-487(F) 11=-449(F)	15=-487(F) 22=-491(F) 23=-487(F) 24=-4	487(F) 25=-449(F	-) 26=-449	(F)	
. ,	5 Roof Live (bal.) + 0.75(0.6	/WFRS Wind (Neg. Int) Left): Lumber Inc	rease=1.60, Pla	te Increas	e=1.60	
Uniform Loads (plf) Vert: 1-4=-67	, 4-8=-50, 13-16=-20, 11-13=	-20, 9-11=-20, 9-19=-20				
Horz: 1-4=10,	4-8=8	20, 0 11-20, 0 10-20				
Concentrated Loads (I Vert: 12=-120		15=-866(F) 22=-869(F) 23=-866(F) 24=-8	366(F) 25=-834(F	-) 26=-834	·(F)	
27=-834(F)	., ., .,		., .		. ,	
50) Reversal: Dead + 0.75	1 0.0) LIVE (DBI.) + 0.75(0.6	/IWFRS Wind (Neg. Int) Right): Lumber Ir	icrease=1.60, Pl	ate increa	50=1.00	

Continued on page 5



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	C&H/159 COBEY CREEK/M	O AS NOTED FOR PLAN REVIEW
3008841	B1	Roof Special Girder	1			DEVELOPMENT SERVICES
				2	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valley	Center), Valley Center, M	(S - 67147,				Mon Dec 27-99:45 22,2021 - Page 5
			ID:xKFGJ7evN	I?7xhJE66F	FHnCzvA57-Z1p79tABTUT0	IRvTkNIEY5_BcilE4fWGX754by4ch

OR PLAN REVIEW MIT. MISSOURI 2021 Bags 5 /GX75/by40h2 ୰∠℉

LOAD CASE(S) Standard Uniform Loads (plf)

Vert: 1-4=-50, 4-8=-67, 13-16=-20, 11-13=-20, 9-11=-20, 9-19=-20

Horz: 1-4=-8, 4-8=-10

Concentrated Loads (lb)

Vert: 12=-1200(F) 14=-866(F) 11=-834(F) 15=-866(F) 22=-869(F) 23=-866(F) 24=-866(F) 25=-834(F) 26=-834(F) 27=-834(F) 26=-834(F) 26=-37) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-4=-38, 4-8=-50, 13-16=-20, 11-13=-20, 9-11=-20, 9-19=-20

Horz: 1-4=-20, 4-8=8

Concentrated Loads (lb)

Vert: 12=-1200(F) 14=-866(F) 11=-834(F) 15=-866(F) 22=-869(F) 23=-866(F) 24=-866(F) 25=-834(F) 26=-834(F) 27=-834(F) 38) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-4=-50, 4-8=-38, 13-16=-20, 11-13=-20, 9-11=-20, 9-19=-20

Horz: 1-4=-8, 4-8=20

Concentrated Loads (lb)

Vert: 12=-1200(F) 14=-866(F) 11=-834(F) 15=-866(F) 22=-869(F) 23=-866(F) 24=-866(F) 25=-834(F) 26=-834(F) 27=-834(F) 25=-834(F) 25=-39) Reversal: Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-17, 4-8=-12, 13-16=-8, 11-13=-8, 9-11=-8, 9-19=-8

Horz: 1-4=5

Concentrated Loads (lb)

Vert: 12=-1200(F) 14=-429(F) 11=-390(F) 15=-429(F) 22=-430(F) 23=-429(F) 24=-429(F) 25=-390(F) 26=-390(F) 27=-390(F) 40) Reversal: Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.60, Plate Increase=1.60

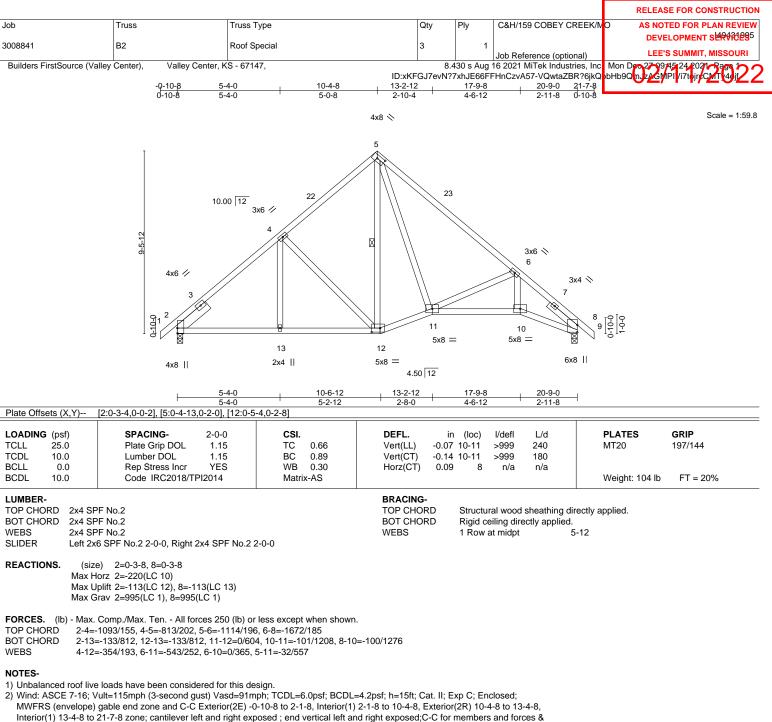
Uniform Loads (plf)

Vert: 1-4=-12, 4-8=-17, 13-16=-8, 11-13=-8, 9-11=-8, 9-19=-8

Horz: 4-8=-5 Concentrated Loads (lb)

Vert: 12=-1200(F) 14=-429(F) 11=-390(F) 15=-429(F) 22=-430(F) 23=-429(F) 24=-429(F) 25=-390(F) 26=-390(F) 27=-390(F)





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) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

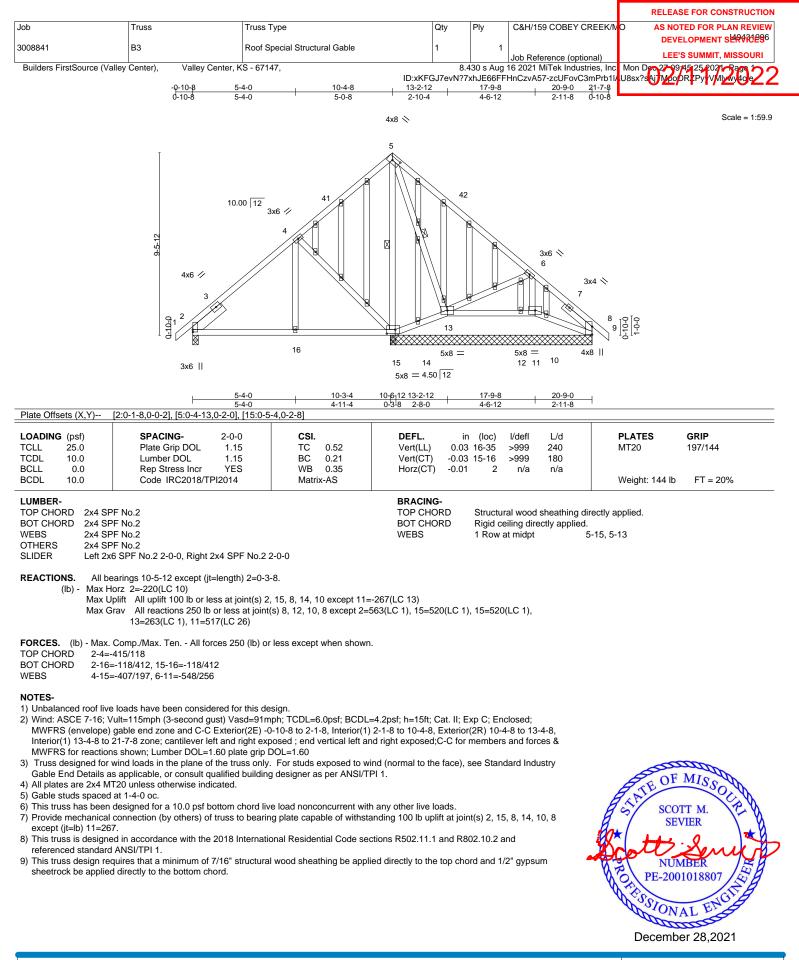
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=113, 8=113.

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.

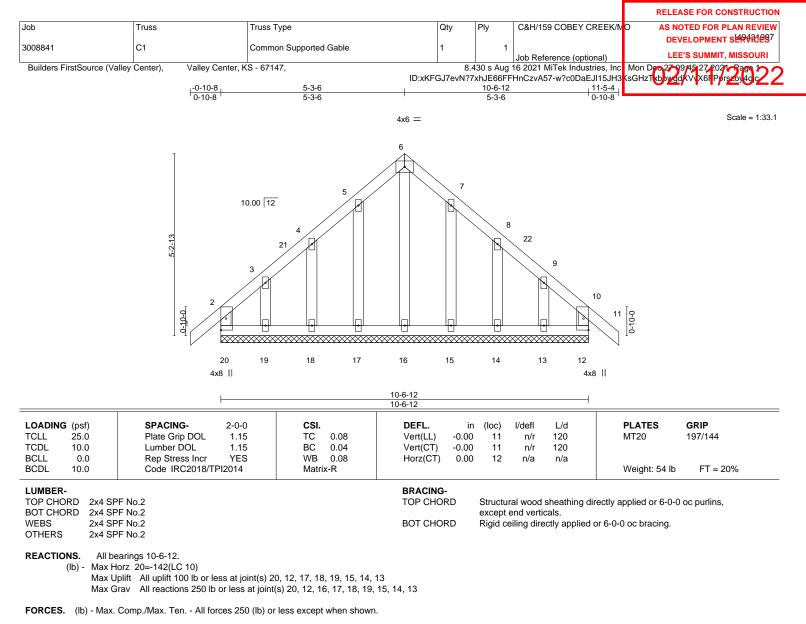
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







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#### NOTES-

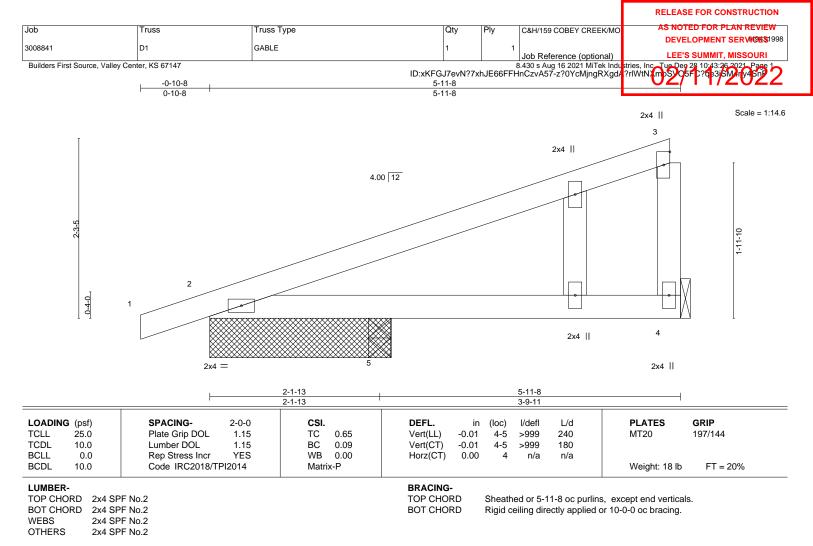
1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 5-3-6, Corner(3R) 5-3-6 to 8-3-6, Exterior(2N) 8-3-6 to 11-5-4 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

- 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 12, 17, 18, 19, 15, 14, 13.
- 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.







### **REACTIONS.** (size) 4=Mechanical, 2=2-3-8, 5=0-3-8

Max Horz 2=83(LC 9)

Max Uplift 4=-64(LC 12), 2=-97(LC 8) Max Grav 4=226(LC 1), 2=279(LC 1), 5=154(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 3-4=-196/256

### 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 Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 5-9-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.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.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.
   Gable studs spaced at 1-4-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 4 and 97 lb uplift at joint 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.



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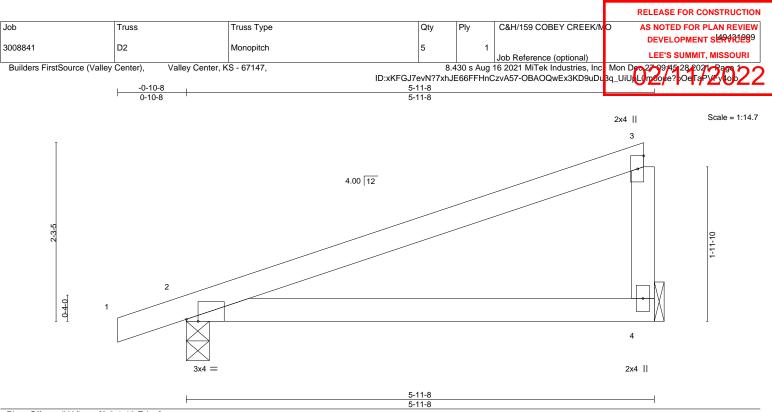


Plate Offsets (X,Y)	[2:0-1-13,Edge]		
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.44	Vert(LL) -0.06 4-7 >999 240 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.35	Vert(CT) -0.12 4-7 >569 180
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 2 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Weight: 17 lb FT = 20%

#### LUMBER-

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

TOP CHORD BOT CHORD

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

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

Max Horz 2=84(LC 11) Max Uplift 4=-52(LC 12), 2=-76(LC 8)

Max Grav 4=257(LC 1), 2=327(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 5-9-12 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 ). This true has been designed for a 10.0 per bettern short live lead someoperurset with any other live leads

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

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





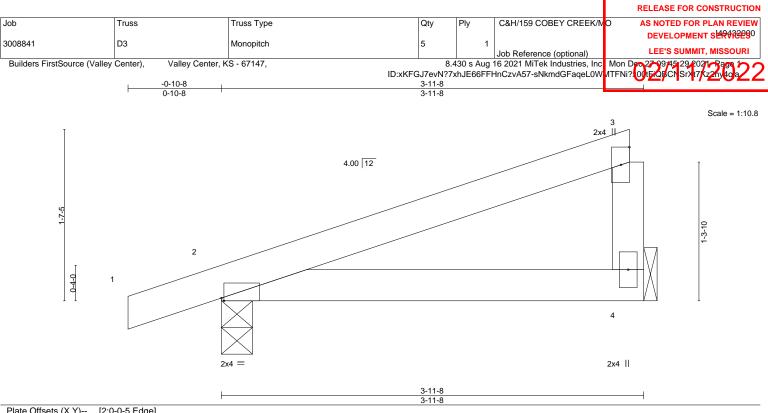


Plate Offsets (X,Y)	[2:0-0-5,Edge]						
OADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. i	n (loc) l/de	əfl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) -0.0 <sup>-</sup>	1 4-7 >99	99 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) -0.02	2 4-7 >99	99 180		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	) 2 n	/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP				Weight: 11 lb	FT = 20%
UMBER-			BRACING-			·	
OP CHORD 2x4	SPF No.2		TOP CHORD	Structural w	ood sheathing dir	rectly applied or 3-11-8	8 oc purlins,
BOT CHORD 2x4	SPF No.2			except end	verticals.		
VEBS 2x4	SPF No.2		BOT CHORD	Rigid ceiling	directly applied of	or 10-0-0 oc bracing.	

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

Max Horz 2=57(LC 11) Max Uplift 4=-33(LC 12), 2=-63(LC 8) Max Grav 4=165(LC 1), 2=240(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=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 3-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

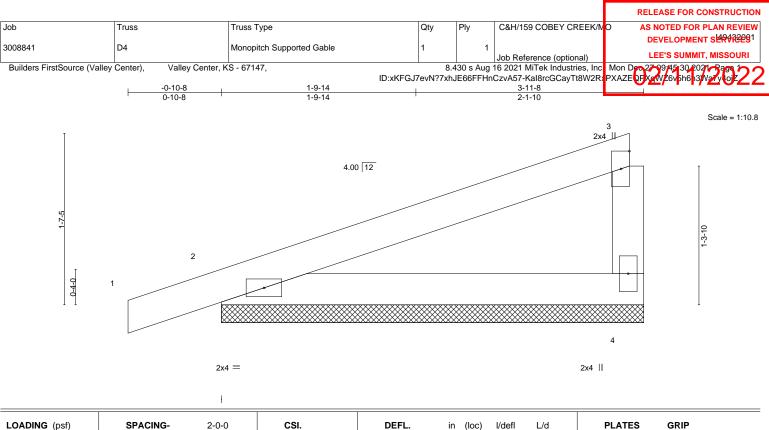
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.

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

referenced standard ANSI/TPI 1.







	_			BRACING-				
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 11 lb
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	4	n/a	n/a	
TCDL	10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) 0.00	1	n/r	120	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) -0.00	1	n/r	120	MT20
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES

L

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

TOP CHORD

Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 4=3-11-8, 2=3-11-8 (size) Max Horz 2=57(LC 9) Max Uplift 4=-33(LC 12), 2=-64(LC 8) Max Grav 4=162(LC 1), 2=240(LC 1)

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

NOTES-

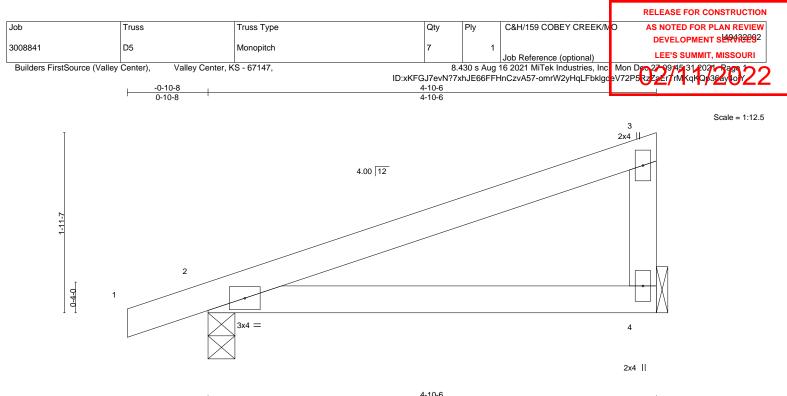
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 3-9-5 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C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



197/144

FT = 20%





			1		4-10	)-6				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	0.28	Vert(LL)	-0.03	4-7	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.05	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/TI	PI2014	Matrix	<-AS						Weight: 14 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

# LUMBER-

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

2x4 SPF No.2

REACTIONS. 4=Mechanical, 2=0-3-8 (size) Max Horz 2=69(LC 11) Max Uplift 4=-42(LC 12), 2=-69(LC 8) Max Grav 4=207(LC 1), 2=279(LC 1)

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

#### NOTES-

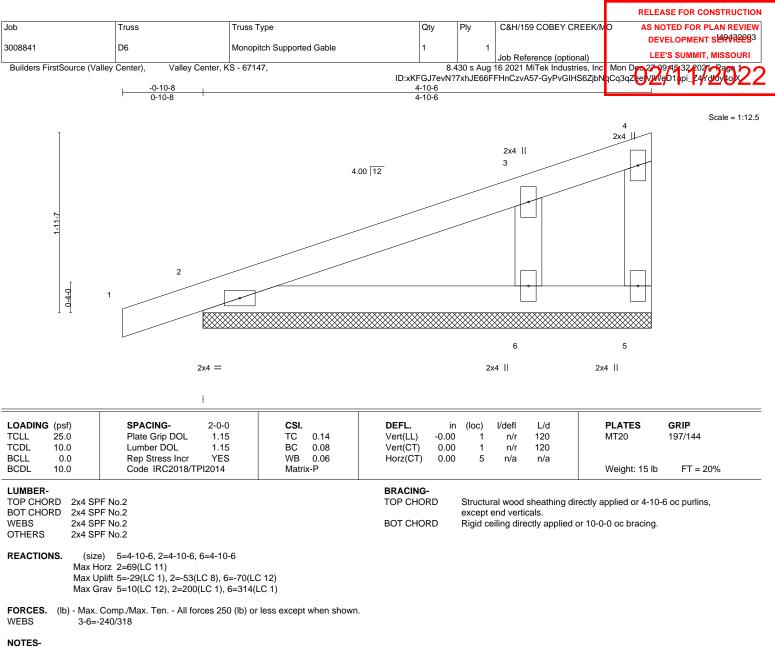
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-8-10 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 studs spaced at 2-0-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.
- 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.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.





 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 2-1-8, Exterior(2N) 2-1-8 to 4-8-10 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

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

3) Gable requires continuous bottom chord bearing.

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

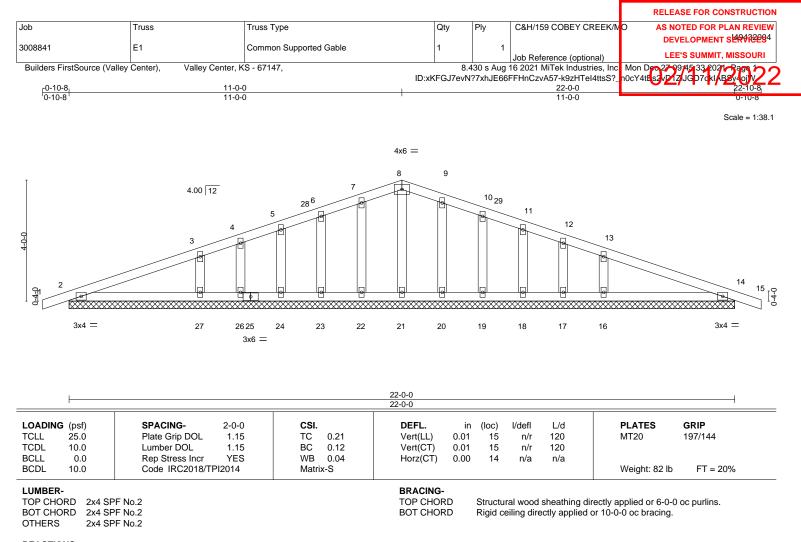
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

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







REACTIONS. All bearings 22-0-0.

(lb) - Max Horz 2=63(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 23, 24, 26, 27, 20, 19, 18, 17, 16, 14

Max Grav All reactions 250 lb or less at joint(s) 2, 21, 22, 23, 24, 26, 20, 19, 18, 17, 14 except 27=417(LC 25), 16=417(LC 26)

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

WEBS 3-27=-303/147, 13-16=-303/147

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 Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 11-0-0, Corner(3R) 11-0-0 to 14-0-0, Exterior(2N) 14-0-0 to 22-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.

5) Gable requires continuous bottom

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

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

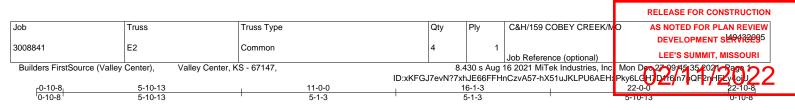
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 22, 23, 24, 26, 27, 20, 19, 18, 17, 16, 14.

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

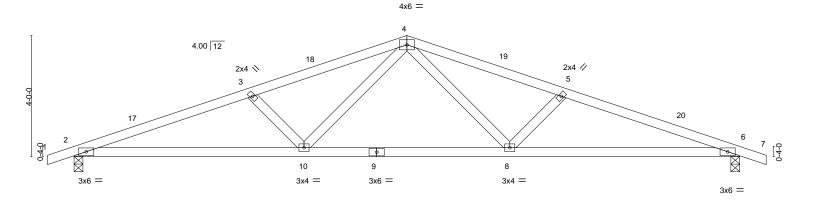


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Scale = 1:38.1



	7-7-3 7-7-3		<u>14-4-13</u> 6-9-10				22-0-0 7-7-3	
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 0.38 BC 0.69 WB 0.16 Matrix-AS	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.12 10 -0.25 10-13 0.06 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 70 lb	<b>GRIP</b> 197/144 FT = 20%
BOT CHORD 2x	4 SPF No.2 4 SPF No.2 4 SPF No.2		BRACING- TOP CHOF BOT CHOF	RD Struct		sheathing di ectly applied.	rectly applied.	
M	(size) 2=0-3-8, 6=0-3-8 ax Horz 2=63(LC 12) ax Uplift 2=-176(LC 8), 6=-176(LC 9) ax Grav 2=1051(LC 1), 6=1051(LC 1)							
FORCES. (Ib) - I TOP CHORD 2	ax. Comp./Max. Ten All forces 250 (lb) o -3=-2359/458, 3-4=-2082/411, 4-5=-2082/4 -10=-380/2208, 8-10=-213/1483, 6-8=-381/	11, 5-6=-2359/458						

WEBS 4-8=-96/659, 5-8=-448/170, 4-10=-95/659, 3-10=-448/169

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 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 22-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

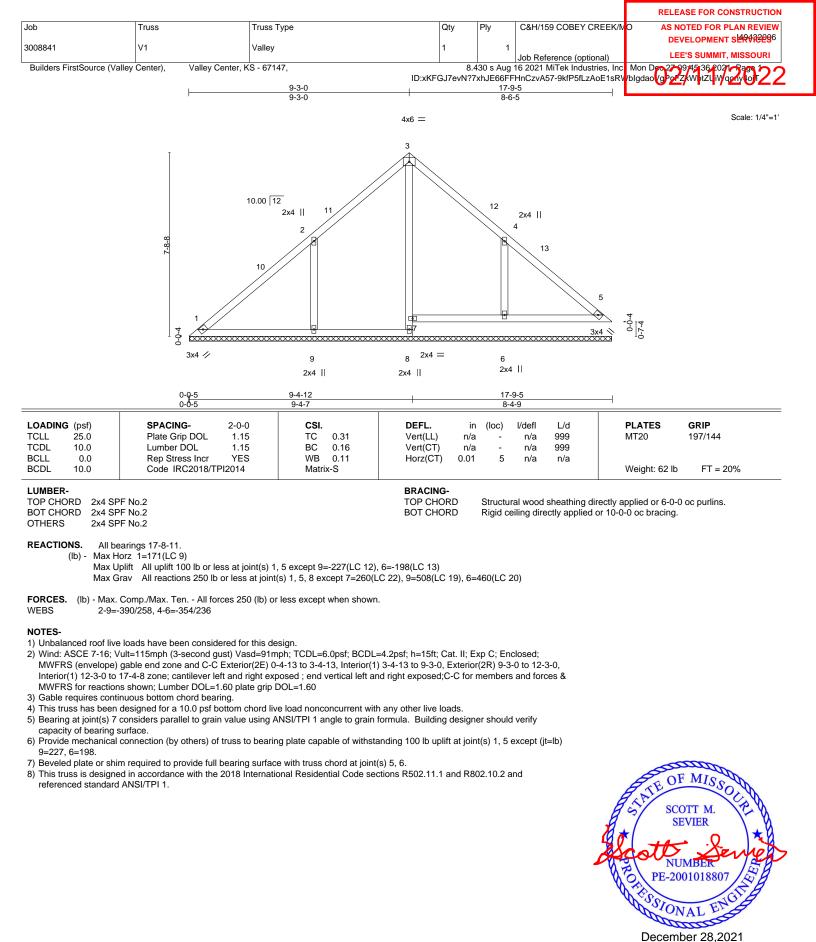
 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=176, 6=176.

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.

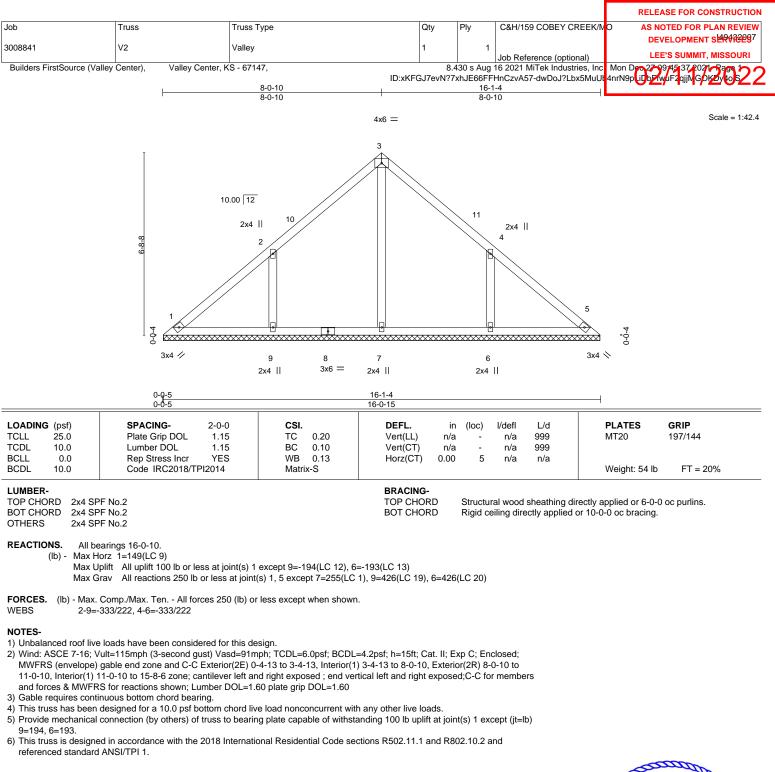
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.









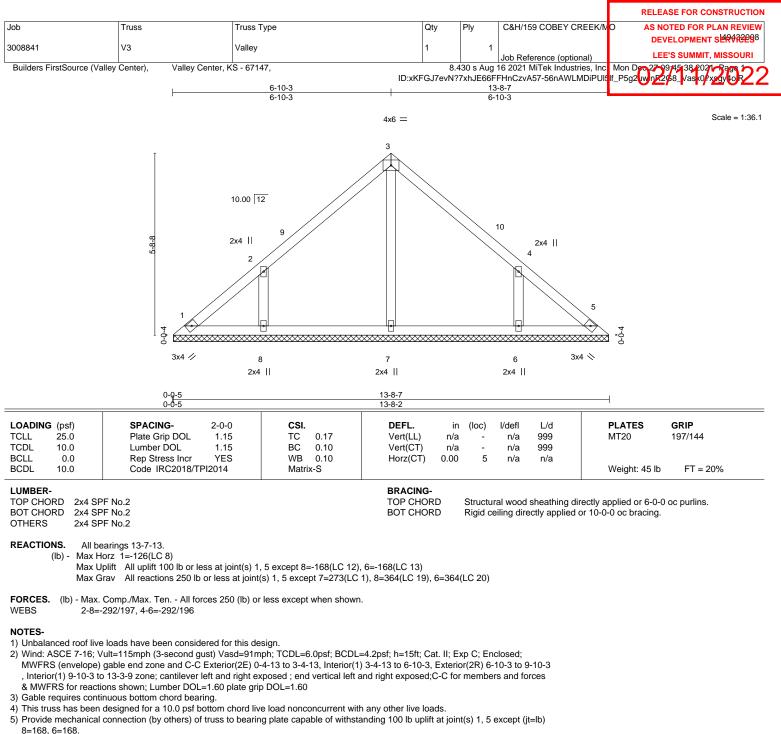




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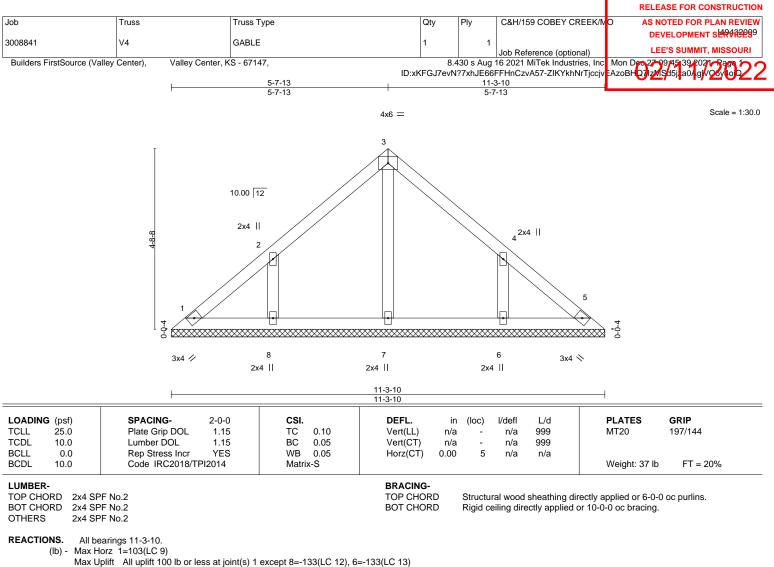




6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=292(LC 19), 6=291(LC 20)

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.

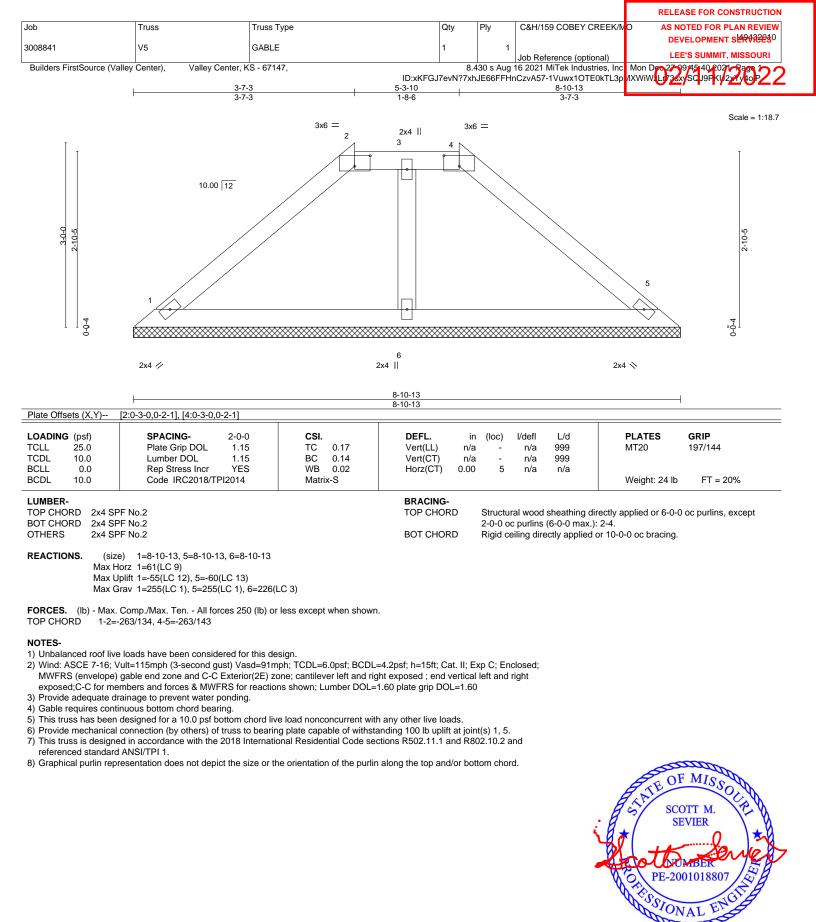
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-7-13, Exterior(2R) 5-7-13 to 8-7-13, Interior(1) 8-7-13 to 10-10-13 zone; cantilever left 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 except (jt=lb) 8=133, 6=133.
- 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.







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



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