

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

Re: 231146 Walker / 500 NW Main

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

Pages or sheets covered by this seal: I57752840 thru I57752851

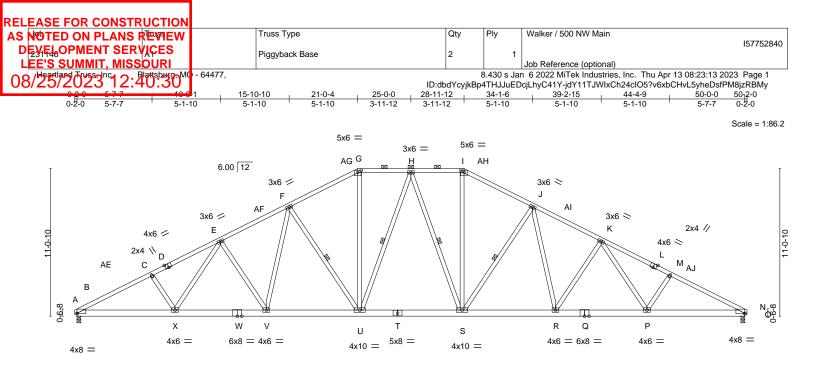
My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193



April 14,2023

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.



7-3-15	14-2-2	21-0-4	28-11-12	35-9-		42-8-1		0-0-0
7-3-15	6-10-2	6-10-2	7-11-8	6-10	-2	6-10-2	2 7	-3-15
Plate Offsets (X,Y) [B:	0-0-0,0-0-5], [D:0-3-0,Edge], [G:0-3-0,0)-2-0], [l:0-3-0,0-2-0], [L:0)-3-0,Edge], [N:0-0)-0,0-0-5]				
LOADING (psf) TCLL 25.0 (Roof Snow=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 0.82 BC 0.82 WB 0.63 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.41 S-L -0.64 S-L 0.18 N	J >999 J >940	L/d 240 180 n/a	PLATES MT20 Weight: 360 II	GRIP 244/190 b FT = 20%
LUMBER- TOP CHORD 2x4 SP No			BRACING- TOP CHORE BOT CHORE WEBS	2-0-0 c D Rigid c	oc purlins (3-0-8 max.): (ctly applied or	ctly applied or 2-0-6 G-I. · 10-0-0 oc bracing. U, H-U, H-S, J-S	oc purlins, except
Max Horz Max Uplift	B=0-3-8, N=0-3-8 B=-180(LC 13) t B=-247(LC 12), N=-253(LC 13) B=2820(LC 33), N=2820(LC 33)							
TOP CHORD B-C=-55	mp./Max. Ten All forces 250 (lb) or le 14/526, C-E=-5326/542, E-F=-4684/53 22/495, I-J=-3741/517, J-K=-4684/533,	3, F-G=-3741/517, G-H=						
	3/4854, V-X=-419/4473, U-V=-292/389 7/4473, N-P=-402/4854	93, S-U=-154/3236, R-S=	-240/3893,					
H-U=-40	7/169, E-X=-68/379, E-V=-769/204, F- 02/235, H-S=-402/235, I-S=-120/1242, 9/204, K-P=-68/379, M-P=-347/169	,	,	2,				
MWFRS (envelope) gat 36-0-10, Interior(1) 36-0 exposed;C-C for memb 2) TCLL: ASCE 7-16; Pf=2 3) Unbalanced snow loads 4) Provide adequate drain 5) This truss has been des	=115mph (3-second gust) Vasd=91mpl ole end zone and C-C Exterior(2E) -0-2 0-10 to 45-2-0, Exterior(2E) 45-2-0 to 5 ers and forces & MWFRS for reactions 25.0 psf (Lum DOL=1.15 Plate DOL=1. s have been considered for this design. age to prevent water ponding. signed for a 10.0 psf bottom chord live inection (by others) of truss to bearing	2-0 to 4-10-0, Interior(1) 4 0-2-0 zone; cantilever lef shown; Lumber DOL=1. 15); Is=1.0; Rough Cat C load nonconcurrent with	4-10-0 to 13-11-6, it and right expose .33 plate grip DOL C; Fully Exp.; Ce=0 any other live loac	Exterior(2R) d; end vertic =1.33).9; Cs=1.00; ds.	13-11-6 to al left and Ct=1.10	right	STATE OF	MISSOLA TT M. VIER

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 247 lb uplift at joint B and 253 lb uplift at joint N.

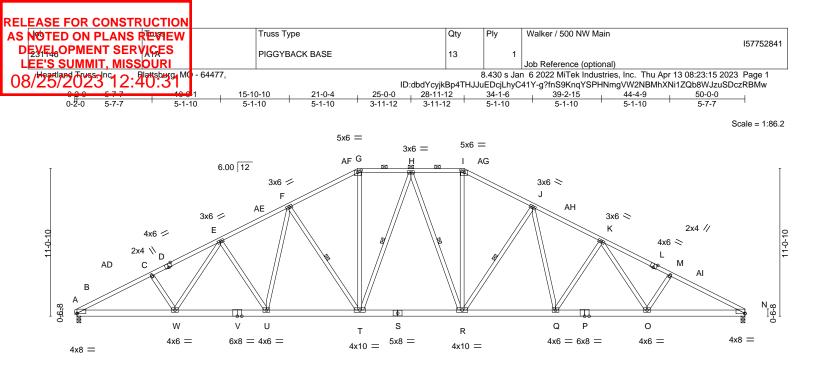
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



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 Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



	7-3-15		21-0-4	28-11-12	35-9-14	42-8-1		-0-0
	7-3-15	6-10-2	6-10-2	7-11-8	6-10-2	6-10-2	7-3	3-15
Plate Offse	ets (X,Y) [B:	0-0-0,0-0-5], [D:0-3-0,Edge], [G:0	-3-0,0-2-0], [I:0-3-0,0-2-0], [L:	:0-3-0,Edge], [N:0-0	0-0,0-0-5]			
LOADING TCLL (Roof Snow TCDL BCLL BCLL BCDL	25.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.84 BC 0.82 WB 0.63 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/defl -0.41 R-T >999 -0.64 R-T >940 0.18 N n/a	L/d 240 180 n/a	PLATES MT20 Weight: 359 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHOI BOT CHOI WEBS	RD 2x4 SP No D-G,I-L: 2			BRACING- TOP CHORE BOT CHORE WEBS	except 2-0-0 oc purlins	(3-0-8 max.): G-I ectly applied or 10		oc purlins,
REACTIO	Max Horz Max Uplif	B=0-3-8, N=0-3-8 B=177(LC 12) t B=-247(LC 12), N=-249(LC 13) r B=2820(LC 33), N=2808(LC 33)				,	, ,-	
FORCES. TOP CHO BOT CHO	RD B-C=-55 H-I=-322 RD B-W=-54	mp./Max. Ten All forces 250 (lb 14/526, C-E=-5326/543, E-F=-46 22/495, I-J=-3741/517, J-K=-4684 44/4854, U-W=-420/4473, T-U=-2 18/4473, N-O=-403/4854	84/533, F-G=-3741/517, G-H /534, K-M=-5326/544, M-N=-	=-3222/495, 5514/527				
WEBS	H-T=-40	47/169, E-W=-68/379, E-U=-769/2)2/234, H-R=-401/235, I-R=-120/ 99/204, K-O=-68/379, M-O=-347/1	242, J-R=-1260/258, J-Q=-9	,	42,			
MWFRS 36-0-10 exposed	S (envelope) gal), Interior(1) 36-0 d;C-C for memb	=115mph (3-second gust) Vasd=5 ble end zone and C-C Exterior(2E 0-10 to 45-0-0, Exterior(2E) 45-0-1 ers and forces & MWFRS for rear 25.0 psf (Lum DOL=1.15 Plate DO) -0-2-0 to 4-10-0, Interior(1)) to 50-0-0 zone; cantilever le ctions shown; Lumber DOL=1	4-10-0 to 13-11-6, eft and right expose 1.33 plate grip DOL	Exterior(2R) 13-11-6 to d ; end vertical left and =1.33		SS OF I	MISS

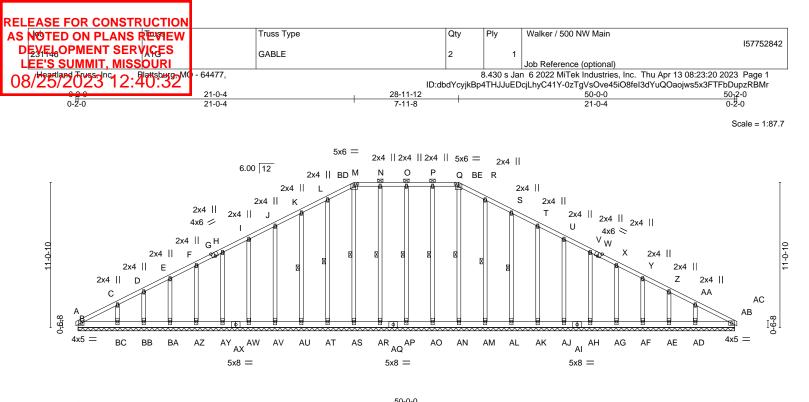
- 3) Unbalanced snow loads have been considered for this design.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 247 lb uplift at joint B and 249 lb uplift at joint N.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 14,2023



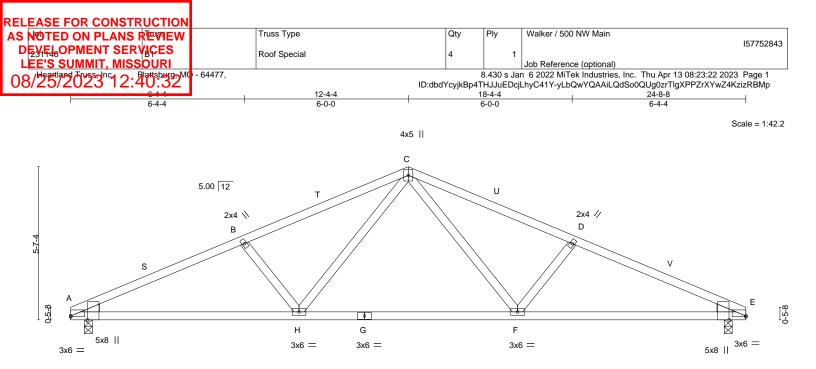
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



L			50-0-0					
			50-0-0					
Plate Offsets (X,Y) [G:	0-3-0,Edge], [M:0-3-0,0-2-0], [Q:0-3-0,0)-2-0], [W:0-3-0,Edge]	1				1	
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.09 BC 0.05 WB 0.26 Matrix-S	Vert(CT)	in (loc) 0.00 AB 0.00 AB 0.01 AB	l/defl n/r n/r n/a	L/d 120 90 n/a	PLATES MT20 Weight: 419 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No BOT CHORD 2x6 SP No OTHERS 2x4 SP No	p.1		BRACING- TOP CHORD BOT CHORD WEBS	2-0-0 oc	purlins (6-0)-0 max.): I applied or O-	ectly applied or 6-0-0 c M-Q. r 10-0-0 oc bracing. -AP, N-AR, M-AS, L-A -AN, R-AM, S-AL	
Max Grav FORCES. (Ib) - Max. Co TOP CHORD B-C=-25 P-Q=-10	 t All uplift 100 lb or less at joint(s) AP, BB, BC, AO, AM, AL, AK, AJ, AH, AG All reactions 250 lb or less at joint(s) except AP=277(LC 32), AR=291(LC 3 AV=278(LC 33), AW=278(LC 33), AY AO=291(LC 32), AM=295(LC 33), AL: AH=278(LC 33), AG=282(LC 33), AD mp./Max. Ten All forces 250 (lb) or le 8/78, K-L=-96/254, L-M=-115/302, M-N 16/287, Q-R=-115/302, R-S=-96/254 	, AF, AE, AD B, AB, AS, BA, BB, AN, 2), AT=295(LC 33), AU= =278(LC 33), AZ=282(L! =276(LC 33), AK=278(L(=278(LC 33)) ss except when shown. =-106/287, N-O=-106/28	AF, AE =276(LC 33), C 33), BC=278(LC 3 C 33), AJ=278(LC 3					
 NOTES- 1) Wind: ASCE 7-16; Vult- MWFRS (envelope) gal , Exterior(2N) 33-11-12 exposed;C-C for memb 2) Truss designed for wind Gable End Details as a 3) TCLL: ASCE 7-16; Pf=2 4) Unbalanced snow loads 5) Provide adequate drain 6) All plates are 3x6 MT2C 7) Gable requires continue 8) Gable studs spaced at 1 9) This truss has been des 10) Provide mechanical cd AV, AW, AY, AZ, BA, 11) This truss is designed 	2-0-0 oc. signed for a 10.0 psf bottom chord live ponnection (by others) of truss to bearing BB, BC, AO, AM, AL, AK, AJ, AH, AG, in accordance with the 2018 Internatio	a; TCDL=6.0psf; BCDL= 0 to 5-0-0, Exterior(2N) : zone; cantilever left and shown; Lumber DOL=1: or studs exposed to wini lesigner as per ANSI/TP 15); Is=1.0; Rough Cat C oad nonconcurrent with plate capable of withsta AF, AE, AD. nal Residential Code set	5-0-0 to 16-0-4, Corr right exposed ; enc 33 plate grip DOL= d (normal to the face 1. ; Fully Exp.; Ce=0.9 any other live loads anding 100 lb uplift a ctions R502.11.1 an	ner(3R) 16-0- vertical left a .33), see Standa ; Cs=1.00; C t joint(s) AP, d R802.10.2 a	4 to 33-11- and right ard Industry t=1.10 AR, AT, AL and	Ž	STATE OF M SCOT SEVI PE-20010 PE-20010 PE-20010 April	BER 018807

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Q-6-Q	8-4-4	1	16-4-4				24-2-8	24-8-8
0-6-0			7-11-15		1		7-10-4	d-6-d
	0-0-0,0-0-6], [A:0-1-11,Edge], [E:0-0-0,	0-0-6j, [E:0-1-11,Edge]						
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL TCDL 0.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.71 BC 0.88 WB 0.27 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)		bc) l/defl F-H >999 F-H >979 E n/a	L/d 240 180 n/a	PLATES MT20 Weight: 108 lb	GRIP 244/190 FT = 20%
Max Horz Max Uplift	2 3		BRACING- TOP CHORD BOT CHORD			0	ectly applied or 3-5-2 o r 10-0-0 oc bracing.	c purlins.
TOP CHORD A-B=-20 BOT CHORD A-H=-23	mp./Max. Ten All forces 250 (lb) or le 67/321, B-C=-1805/309, C-D=-1805/30 4/1839, F-H=-113/1200, E-F=-230/183 /645, D-F=-486/197, C-H=-78/645, B-H	9, D-E=-2067/321 9						
MWFRS (envelope) gat Interior(1) 15-4-4 to 21-	=115mph (3-second gust) Vasd=91mph ole end zone and C-C Exterior(2E) 0-0- 8-8, Exterior(2E) 21-8-8 to 24-8-8 zone ers and forces & MWEPS for reactions	0 to 3-0-0, Interior(1) 3-0 ; cantilever left and right	-0 to 9-4-4, Exteric exposed ; end vert	or(2R) 9-4- tical left an	4 to 15-4-4,			

exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

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

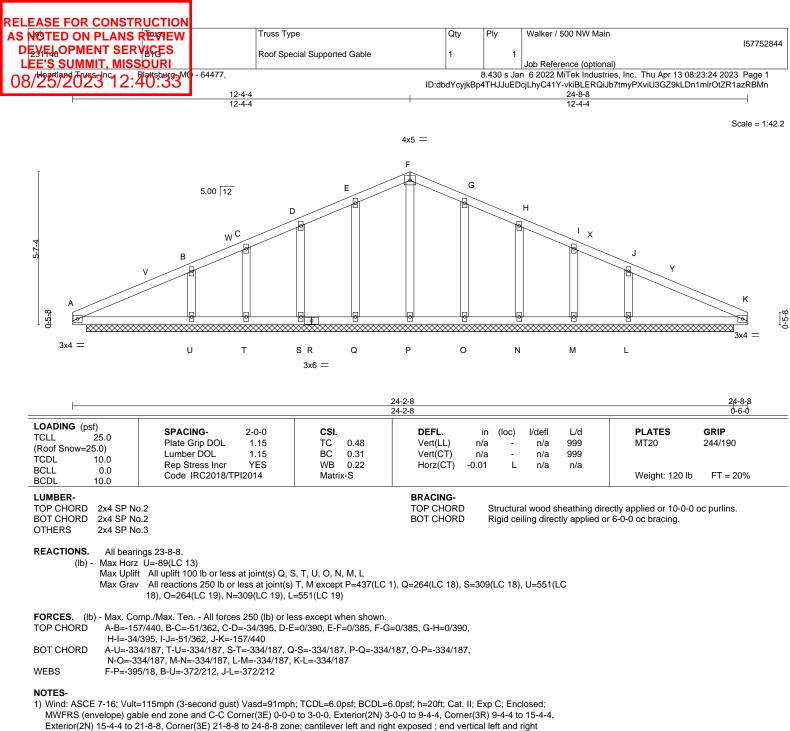
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=125. E=125.

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.



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exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

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) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

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

6) Gable studs spaced at 2-0-0 oc.

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

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) Q, S, T, U, O, N, M, L.

9) N/A

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.



MiTek[®]

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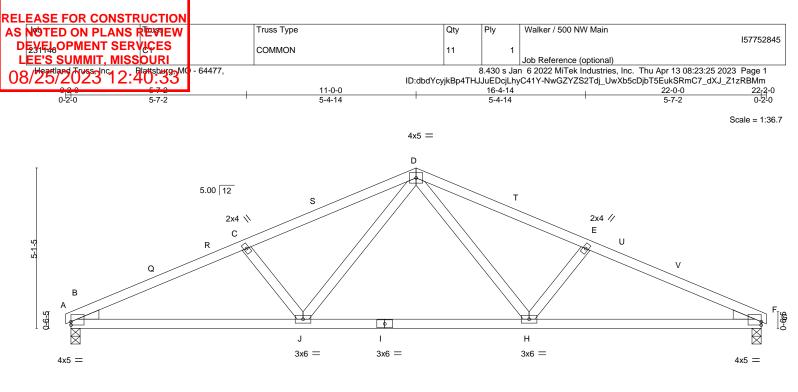


Plate Offsets (X,Y) [B:0	7-4-12 7-4-12 0-0-0,0-1-4], [F:0-0-0,0-1-4]		14-7-4 7-2-7				22-0-0 7-4-12	
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL TCDL 0.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.84 BC 0.73 WB 0.28 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.11 H-J -0.22 H-J 0.05 F	>999 >999	L/d 240 180 n/a	PLATES MT20 Weight: 97 lb	GRIP 244/190 FT = 20%
Max Horz Max Uplift	0.2 0.3		BRACING- TOP CHORE BOT CHORE				ectly applied or 2-2-0 r 10-0-0 oc bracing.	oc purlins.
TOP CHORD B-C=-20 BOT CHORD B-J=-258	mp./Max. Ten All forces 250 (lb) or l 44/341, C-D=-1762/325, D-E=-1762/3 3/1821, H-J=-125/1141, F-H=-258/182 /668, E-H=-508/187, D-J=-78/668, C-J	25, E-F=-2044/341 1						
,	=115mph (3-second gust) Vasd=91mp ole end zone and C-C Exterior(2E) -0-2				,	-0		

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 1CDL=6.0pst; BCDL=6.0pst; h=20tt; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-2-0 to 2-10-0, Interior(1) 2-10-0 to 8-0-0, Exterior(2R) 8-0-0 to 14-0-0, Interior(1) 14-0-0 to 19-2-0, Exterior(2E) 19-2-0 to 22-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

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) B=107, F=113.

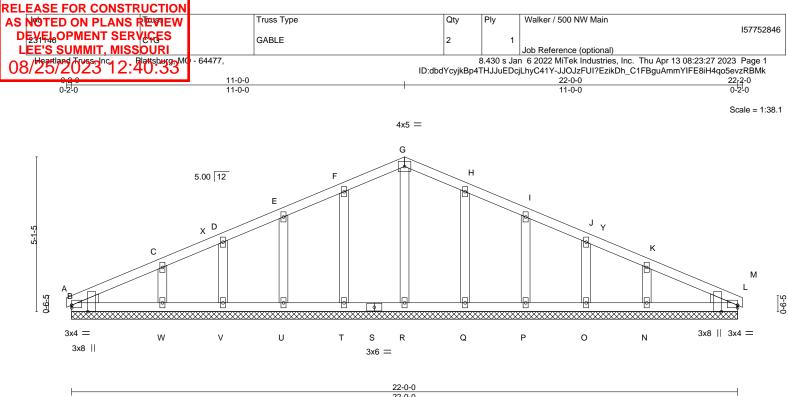
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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16023 Swingley Ridge Rd Chesterfield, MO 63017



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 0.11	Vert(LL) -0.	· · ·	n/r	120	MT20	244/190
Roof Snow=25.0)	Lumber DOL 1.15	BC 0.06	Vert(CT) -0.		n/r	90	11120	210/100
TCDL 10.0	Rep Stress Incr YES	WB 0.08		00 L	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014	Matrix-S	11012(01) 0.		n/a	n/a	Weight: 107 lb	FT = 20%
BCDL 10.0		Matrix 6					Weight. 107 lb	11 = 2070
LUMBER-			BRACING-					
TOP CHORD 2x4 SP No	0.2		TOP CHORD	Structur	al wood s	heathing dire	ectly applied or 6-0-0 c	oc purlins.
BOT CHORD 2x4 SP No	0.2		BOT CHORD	Rigid ce	iling dired	tly applied or	10-0-0 oc bracing.	
OTHERS 2x4 SP No	.3			5	-		0	

OTHERS WEDGE

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS. All bearings 22-0-0.

(lb) - Max Horz B=83(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) B, T, U, V, W, Q, P, O, N

All reactions 250 lb or less at joint(s) B, L, R, V, O except T=268(LC 19), U=264(LC 19), W=276(LC 1), Max Grav Q=268(LC 20), P=264(LC 20), N=276(LC 1)

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

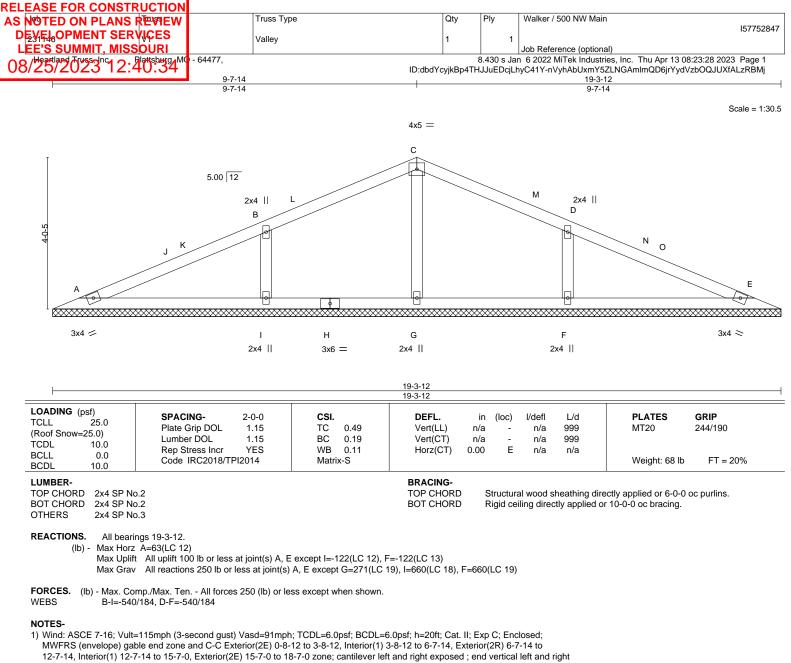
NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-2-0 to 3-0-0, Exterior(2N) 3-0-0 to 8-0-0, Corner(3R) 8-0-0 to 14-0-0, Exterior(2N) 14-0-0 to 19-0-0, Corner(3E) 19-0-0 to 22-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 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) B, T, U, V, W, Q, P, O, N.
- 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.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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- exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.

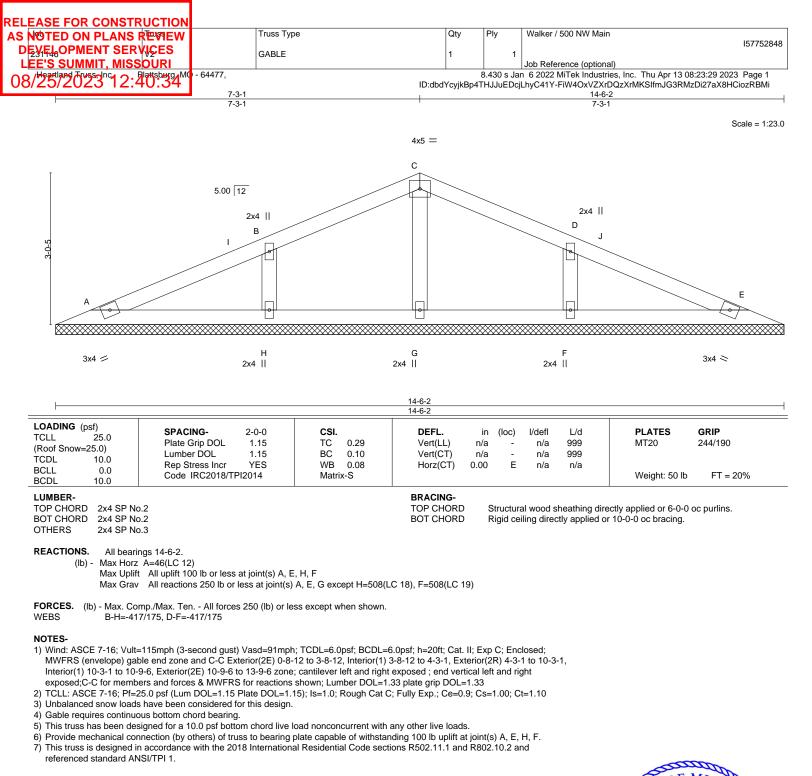
4) Gable requires continuous bottom chord bearing.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, E except (jt=lb) l=122, F=122.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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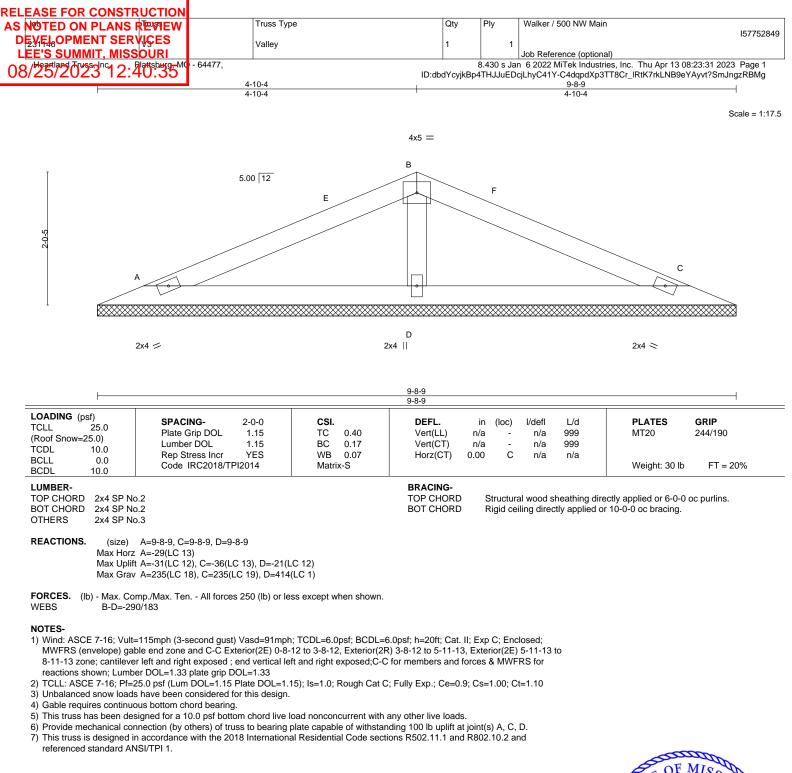




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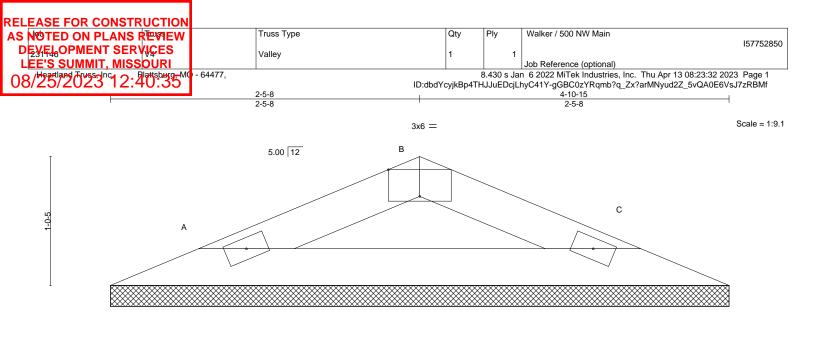




April 14,2023

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2x4 ⋍

2x4 🗢

 			4-10-15 4-10-15				
Plate Offsets (X,Y) [B:0-3	3-0,Edge]						
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) 10.0 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 0.08 BC 0.15 WB 0.00 Matrix-P	Vert(CT)	in (loc) n/a - n/a - .00 C	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20 Weight: 13 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2			BRACING- TOP CHORD BOT CHORD		I wood sheathing dire ing directly applied or		15 oc purlins.

BOT CHORD 2x4 SP No.2

REACTIONS. (size) A=4-10-15, C=4-10-15

Max Horz A=12(LC 12) Max Uplift A=-17(LC 12), C=-17(LC 13)

Max Grav A=169(LC 18), C=169(LC 19)

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=6.0psf; h=20ft; 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=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.

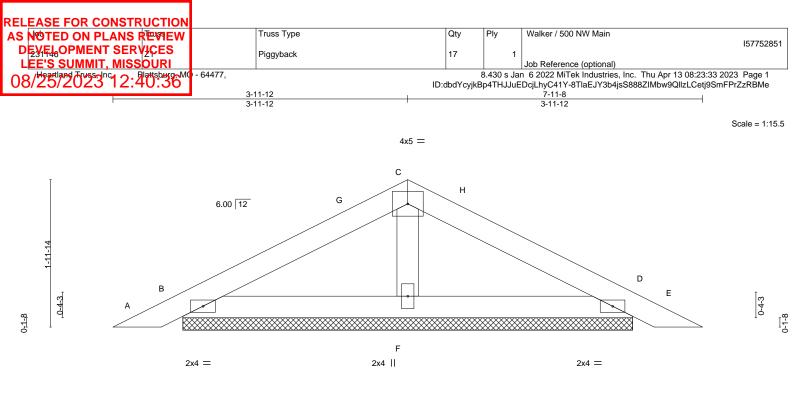
4) Gable requires continuous bottom chord bearing.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.
- 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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├ ──			7-11-8 7-11-8					
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) 10.0 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 0.27 BC 0.09 WB 0.04 Matrix-P	DEFL. in Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) 0.00	(loc) E D D	l/defl n/r n/r n/a	L/d 120 90 n/a	PLATES MT20 Weight: 24 lb	GRIP 244/190 FT = 20%

TOP CHORD

BOT CHORD

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 OTHERS

REACTIONS. (size) B=6-0-14, D=6-0-14, F=6-0-14

Max Horz B=31(LC 12)

Max Uplift B=-44(LC 12), D=-50(LC 13)

Max Grav B=264(LC 19), D=264(LC 20), F=259(LC 19)

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=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Exterior(2R) 3-3-15 to 4-7-9, Exterior(2E) 4-7-9 to 7-7-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, D.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

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



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