

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Re: 251264
REUNION AT BLACKWELL

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, LLC..

Pages or sheets covered by this seal: I75433593 thru I75433643

My license renewal date for the state of Missouri is December 31, 2026.

Missouri COA: Engineering 001193



STAND STRUCTURAL ENGINEERING
8234 Robinson St
Overland Park, KS 66204
(913) 214-2169

Reviewed Revise and Resubmit
 Reviewed as Noted Rejected
 Not required by the Contract Documents
 For Record Only

Reviewed for conformance with the design concept of the Project and compliance with information given in the Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job site; for information that pertains solely to the fabrication process or to the techniques of construction; and for coordination of the work of all trades. Exceptions taken do not authorize work resulting in contract cost revisions unless so agreed in separate letter or change order

By: thult
Date: 10/15/2025

August 7, 2025

Lu, Jie ,Engineer

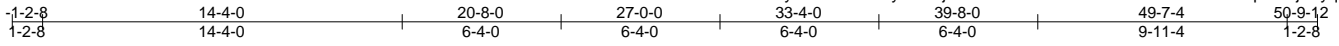
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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.

Job 251264	Truss A1A	Truss Type Roof Special	Qty 3	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	175433594
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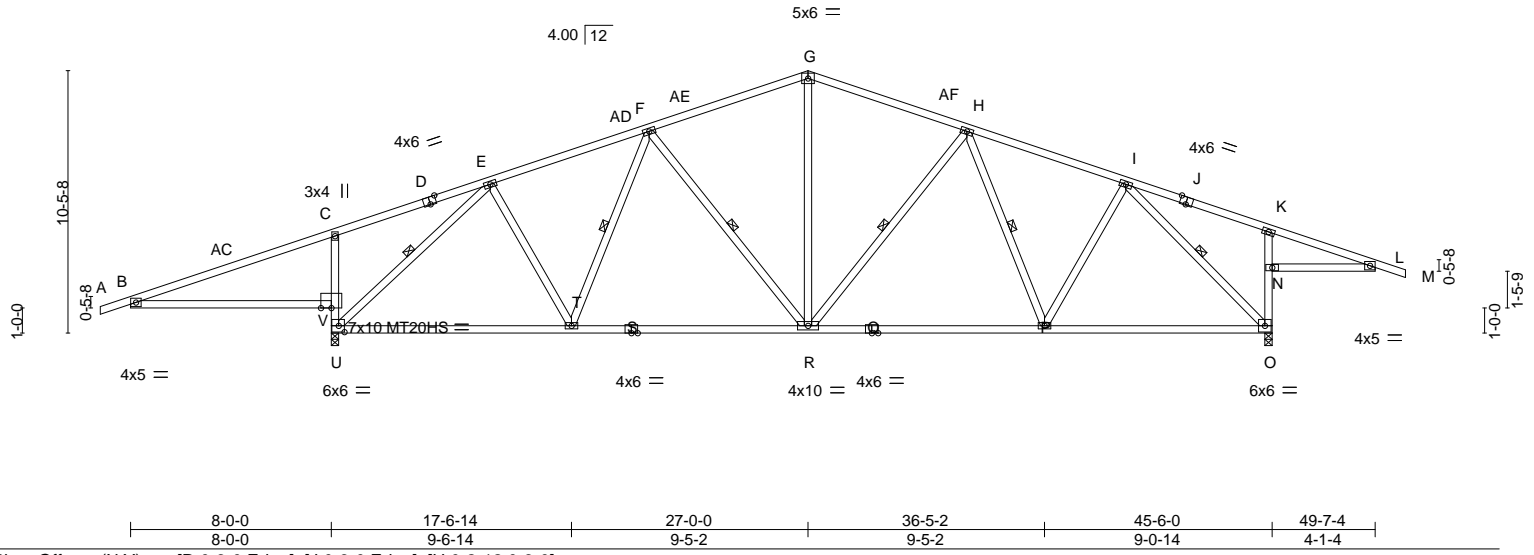
Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:28 2025 Page 1

ID:AvGMvLCC0iAyfYGFMu2TJvy7NIA-j0S?m4bUmnkLUTvMz?kAbMk0Os?2Z82pKSPjNjyqeU5



Scale = 1:91.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.86 BC 0.96 WB 0.93	in (loc) l/defl L/d Vert(LL) -0.19 T-U >999 240 Vert(CT) -0.51 V-Y >190 90 Horz(CT) 0.07 O n/a n/a	MT20 MT20HS	244/190 187/143
TCDL 10.0	Rep Stress Incr YES	Matrix-MS			
BCLL 10.0	Code IBC2018/TPI2014				
BCDL 10.0				Weight: 279 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* A-D: 2x4 SP 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 3-6-3 oc purlins, except end verticals. Except:
BOT CHORD 2x4 SP No.2 *Except* B-V,S-U: 2x4 SP 1650F 1.5E	6-0-0 oc bracing: U-V, N-O
WEBS 2x4 SP No.3 *Except* C-U: 2x4 SP 2400F 2.0E, K-O: 2x4 SP 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
	WEBS 1 Row at midpt F-R, F-T, E-U, H-R, H-P, I-O

REACTIONS. (size) U=0-3-8, O=0-3-8
 Max Horz U=303(LC 12)
 Max Uplift U=-561(LC 8), O=-403(LC 9)
 Max Grav U=2415(LC 3), O=1942(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-621/1058, C-E=-412/835, E-F=-1360/201, F-G=-1388/345, G-H=-1388/345,
 H-I=-1444/285, K-L=-352/578, U-V=-707/390, C-V=-569/288, N-O=-553/340,
 K-N=-462/266
 BOT CHORD B-V=-929/651, T-U=-228/886, R-T=-219/1367, P-R=-145/1391, O-P=-159/1041,
 L-N=-500/374
 WEBS G-R=-44/560, F-R=-259/167, F-T=-398/230, E-T=-116/761, E-U=-2278/588, H-R=-274/171,
 I-P=-7/596, I-O=-1763/287

- 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) -1-2-8 to 3-9-0, Interior(1) 3-9-0 to 22-0-8, Exterior(2R) 22-0-8 to 31-11-8, Interior(1) 31-11-8 to 50-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) All plates are 3x6 MT20 unless otherwise indicated.
 - 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) except (jt=lb) U=561, O=403.
 - 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 7, 2025

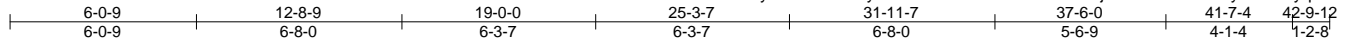
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 251264	Truss A2	Truss Type Roof Special	Qty 7	Ply 1	REUNION AT BLACKWELL	175433595
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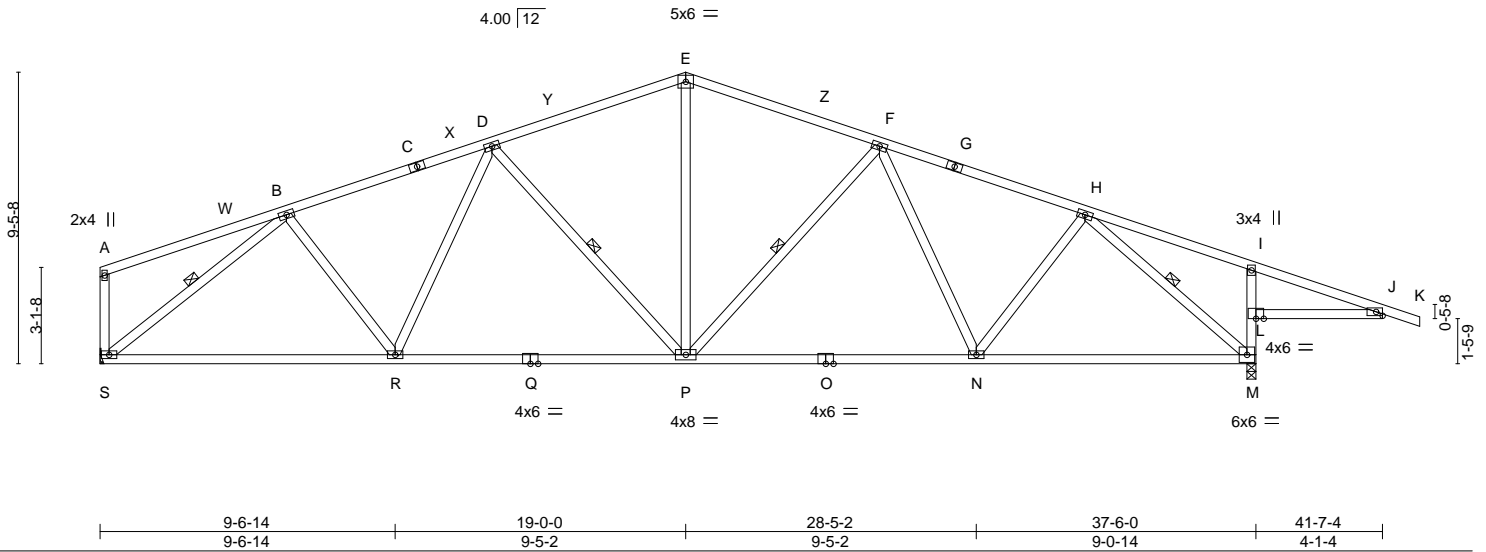
Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:29 2025 Page 1

ID:AvGMvLCC0iAyfYGFMu2TJvy7NIA-BD0NzQc6X5sC6dUYWJFP7aHAZGLRIf4yY69GvlyqeU4



Scale = 1:74.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2018/TP12014	TC 0.96 BC 0.95 WB 0.69 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.19 R-S >999 240 Vert(CT) -0.39 R-S >999 180 Horz(CT) 0.09 M n/a n/a	MT20	244/190
TCDL 10.0				Weight: 238 lb	FT = 20%
BCLL 10.0					
BCDL 10.0					

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-9-3 oc purlins, except end verticals. Except:
BOT CHORD 2x4 SP No.2 *Except*	2-2-0 oc bracing: L-M
Q-S,M-O: 2x4 SP 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt D-P, F-P, H-M, B-S
I-M: 2x4 SP No.2	

REACTIONS. (size) M=0-3-8, S=Mechanical
 Max Horz S=-147(LC 11)
 Max Uplift M=-409(LC 9), S=-211(LC 8)
 Max Grav M=2032(LC 2), S=1572(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-D=-2021/398, D-E=-1723/431, E-F=-1724/431, F-H=-1817/346, H-I=-117/331, I-J=-365/591, L-M=-502/291, I-L=-411/220
 BOT CHORD R-S=-292/1614, P-R=-245/1871, N-P=-150/1742, M-N=-142/1316, J-L=-514/388
 WEBS B-R=0/437, D-P=-522/195, E-P=-75/776, F-P=-314/184, H-N=-33/614, H-M=-2109/443, B-S=-2003/405

- 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) 0-1-12 to 4-3-11, Interior(1) 4-3-11 to 14-10-1, Exterior(2R) 14-10-1 to 23-1-15, Interior(1) 23-1-15 to 42-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) All plates are 3x6 MT20 unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) M=409, S=211.
 - 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TP1 1.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 7, 2025

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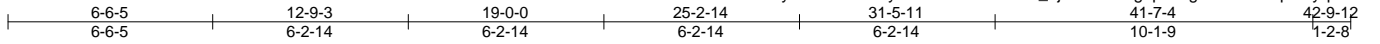
MiTek®
 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL	175433596
251264	A2A	Roof Special	7	1	Job Reference (optional)	

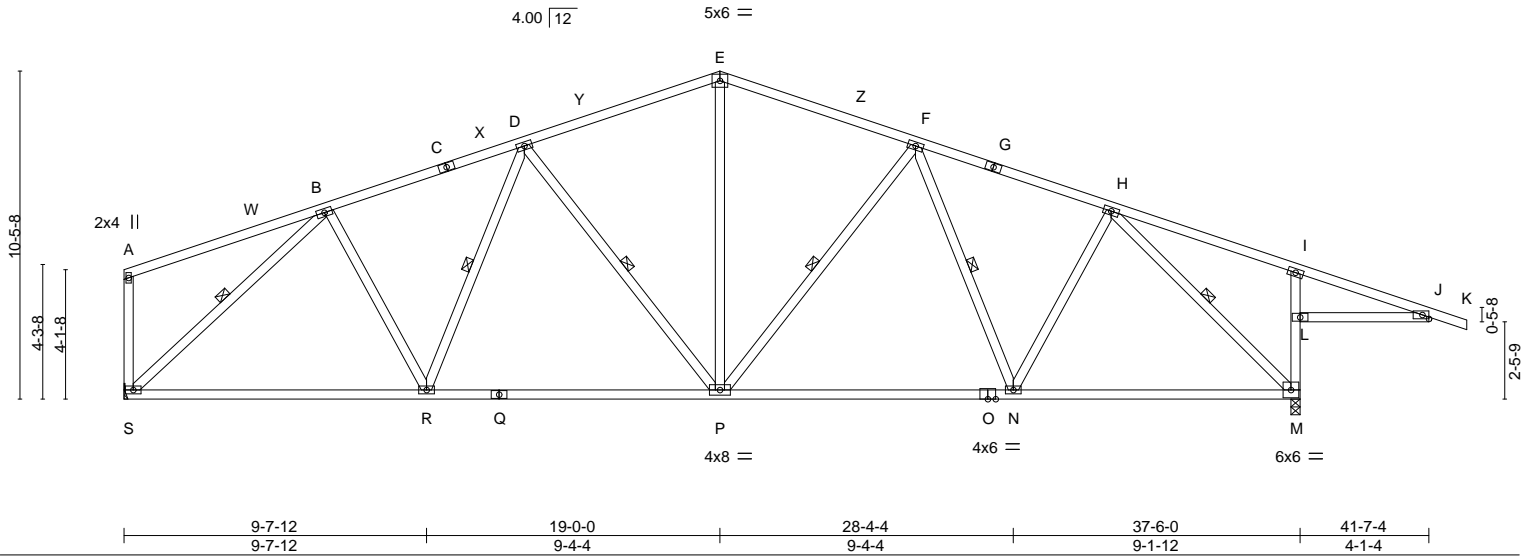
Heartland Truss, LLC., Plattsburg, MO - 64477,

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ID:AvGMVLC00iAyfYGFMu2Tjvy7NIA-fPamBmdkIO_3jn3k4QmegnpMxfg614D6nmupSCyqeU3



Scale = 1:73.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2018/TPI2014	TC 0.85 BC 0.98 WB 0.76 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.20 R-S >999 240 Vert(CT) -0.40 R-S >999 180 Horz(CT) 0.08 M n/a n/a	MT20	244/190
TCDL 10.0				Weight: 253 lb	FT = 20%
BCLL 10.0					
BCDL 10.0					

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-11-1 oc purlins, except end verticals. Except:
BOT CHORD 2x4 SP No.2 *Except*	6-0-0 oc bracing: L-M
Q-S: 2x4 SP 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt D-P, D-R, F-P, F-N, H-M, B-S
I-M: 2x4 SP 1650F 1.5E	

REACTIONS. (size) M=0-3-8, S=Mechanical
 Max Horz S=-170(LC 11)
 Max Uplift M=-407(LC 9), S=-210(LC 8)
 Max Grav M=2032(LC 2), S=1572(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-D=-1745/363, D-E=-1557/415, E-F=-1558/416, F-H=-1568/336, I-J=-352/577,
 L-M=-560/342, I-L=-470/269
 BOT CHORD R-S=-280/1384, P-R=-242/1637, N-P=-156/1525, M-N=-159/1153, J-L=-499/373
 WEBS E-P=-64/668, D-P=-434/181, B-R=0/482, F-N=-289/141, H-N=-24/635, H-M=-1898/337,
 B-S=-1841/379

- 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) 0-1-12 to 4-3-11, Interior(1) 4-3-11 to 14-10-1, Exterior(2R) 14-10-1 to 23-1-15, Interior(1) 23-1-15 to 42-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) All plates are 3x6 MT20 unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) M=407, S=210.
 - 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 7, 2025

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Job 251264	Truss A3	Truss Type Common	Qty 3	Ply 1	REUNION AT BLACKWELL	175433597
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Heartland Truss, LLC., Plattsburg, MO - 64477,

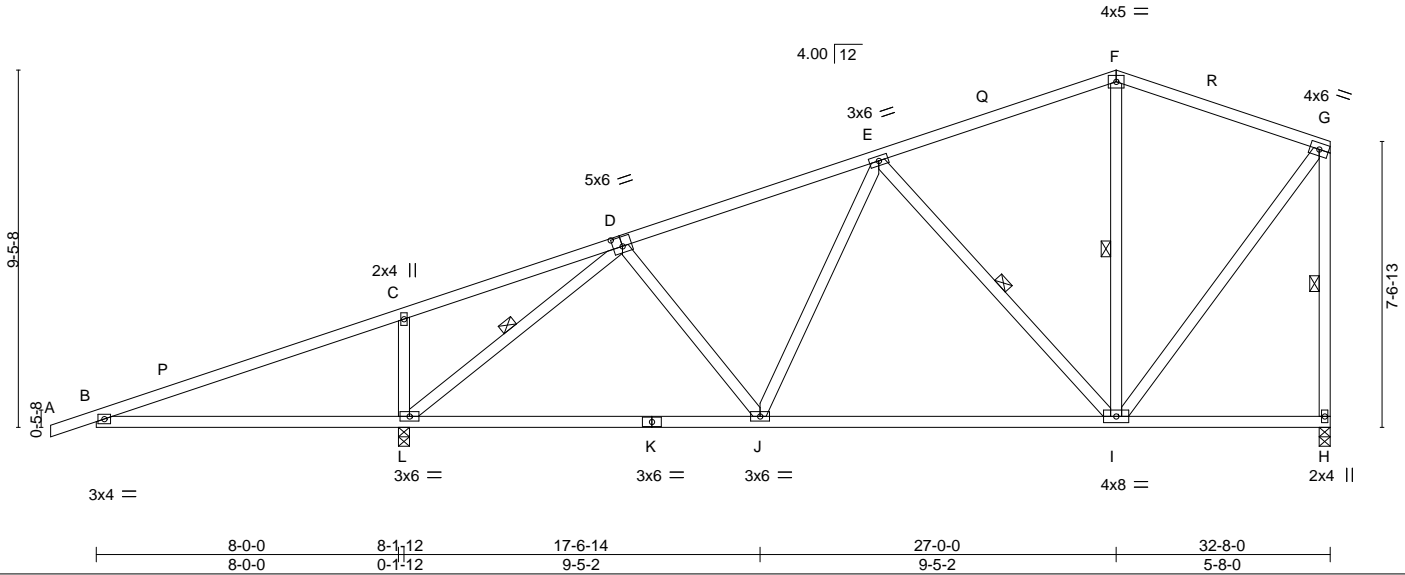
8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:30 2025 Page 1

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Job Reference (optional)



Scale = 1:61.0



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.85	in	(loc)	l/defl	L/d	MT20	244/190		
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.82	Vert(LL)	-0.14	I-J	>999	Weight: 187 lb FT = 20%			
TCDL	10.0	Rep Stress Incr	YES	WB	0.61	Vert(CT)	-0.30	I-J	>988				
BCLL	10.0	Code IBC2018/TPI2014		Matrix-MS		Horz(CT)	0.02	H	n/a				
BCDL	10.0												

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* A-D: 2x4 SP 1650F 1.5E	TOP CHORD	Structural wood sheathing directly applied or 4-11-7 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS	2x4 SP No.3	WEBS	4-1-9 oc bracing: B-L. 1 Row at midpt D-L, E-I, F-I, G-H

REACTIONS.	
(size)	L=0-3-8, H=0-3-8
Max Horz	L=294(LC 11)
Max Uplift	L=530(LC 8), H=123(LC 9)
Max Grav	L=1962(LC 3), H=916(LC 4)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	B-C=-659/1077, C-D=-553/1031, D-E=-820/136, E-F=-564/208, F-G=-505/211, G-H=-853/158
BOT CHORD	B-L=-938/685, J-L=-206/621, I-J=-167/749
WEBS	C-L=-493/255, D-L=-1815/575, D-J=-75/453, E-I=-454/180, G-I=-78/755

- 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) -1-2-8 to 2-0-11, Interior(1) 2-0-11 to 23-8-13, Exterior(2R) 23-8-13 to 29-3-1, Exterior(2E) 29-3-1 to 32-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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) except (jt=lb) L=530, H=123.
 - 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



August 7, 2025

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

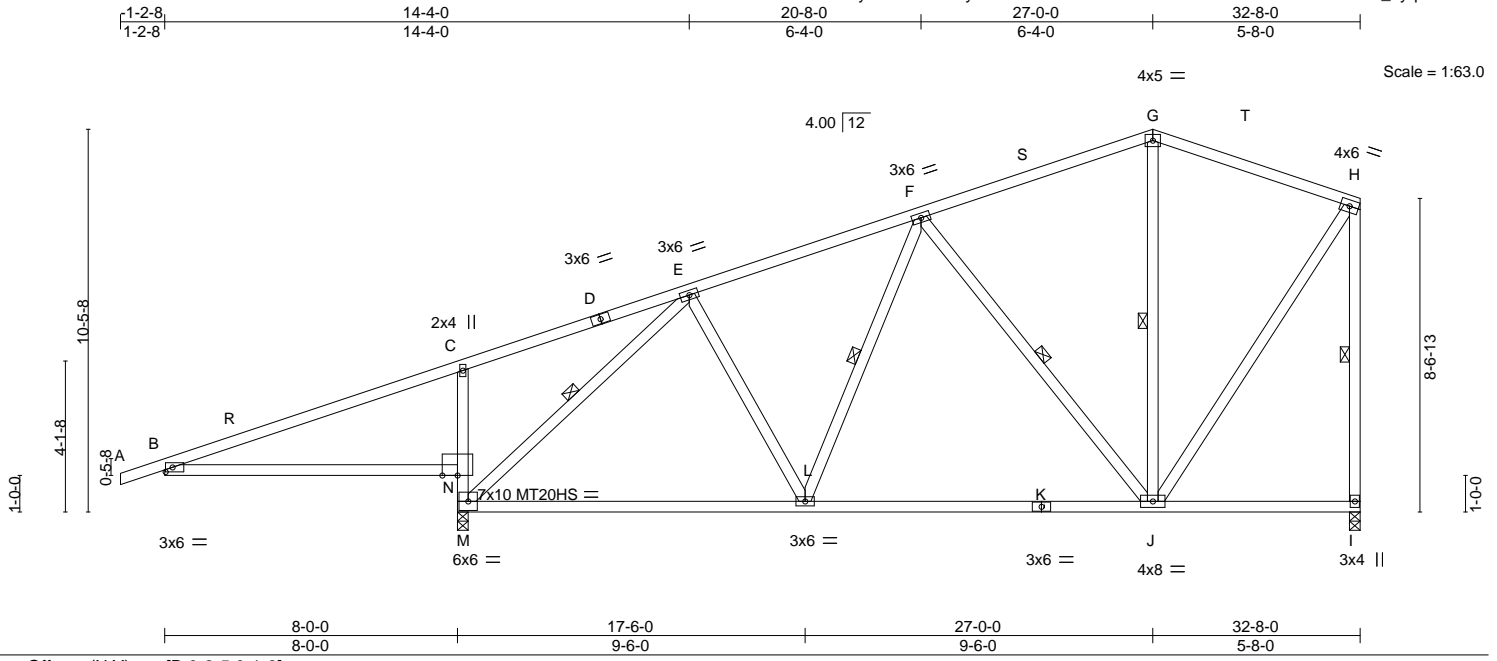
Job 251264	Truss A3A	Truss Type Roof Special	Qty 3	Ply 1	REUNION AT BLACKWELL	175433598
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:31 2025 Page 1

ID:AvGMvLCC0iAyfYGFMu2TJvy7NIA-8b88O6eM3i6wLxewe8HC?MYS328mYvF0QeN_eyqeU2

Job Reference (optional)



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.80	in (loc) l/defl L/d	MT20 244/190	
(Roof Snow=20.0)	Lumber DOL 1.15	BC 0.87	Vert(LL) -0.18 L-M >999 240	MT20HS 187/143	
TCDL 10.0	Rep Stress Incr YES	WB 0.67	Vert(CT) -0.54 N-Q >180 90		
BCLL 10.0	Code IBC2018/TPI2014	Matrix-MS	Horz(CT) 0.02 I n/a n/a		
BCDL 10.0				Weight: 197 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* A-D: 2x4 SP 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 5-2-11 oc purlins, except end verticals. Except: 6-0-0 oc bracing: M-N
BOT CHORD 2x4 SP No.2 *Except* B-N: 2x4 SP 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: B-N.
WEBS 2x4 SP No.3 *Except* C-M: 2x4 SP 2400F 2.0E, H-I: 2x4 SP No.2	WEBS 1 Row at midpt E-M, F-L, F-J, G-J, H-I


REACTIONS. (size) M=0-3-8, I=0-3-8
 Max Horz M=334(LC 9)
 Max Uplift M=-524(LC 8), I=-136(LC 9)
 Max Grav M=1962(LC 3), I=916(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-613/1058, C-E=-405/839, E-F=-718/151, F-G=-515/220, G-H=-456/224,
 M-N=-705/386, C-N=-567/285, H-I=-850/160
 BOT CHORD B-N=-929/642, L-M=-222/595, J-L=-179/660
 WEBS E-M=-1632/484, E-L=-69/478, F-J=-417/182, H-J=-93/739

- NOTES-**
- 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) -1-2-8 to 2-0-11, Interior(1) 2-0-11 to 23-8-13, Exterior(2R) 23-8-13 to 29-3-1, Exterior(2E) 29-3-1 to 32-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pf=20.0 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
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - All plates are MT20 plates unless otherwise indicated.
 - 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) M=524, I=136.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 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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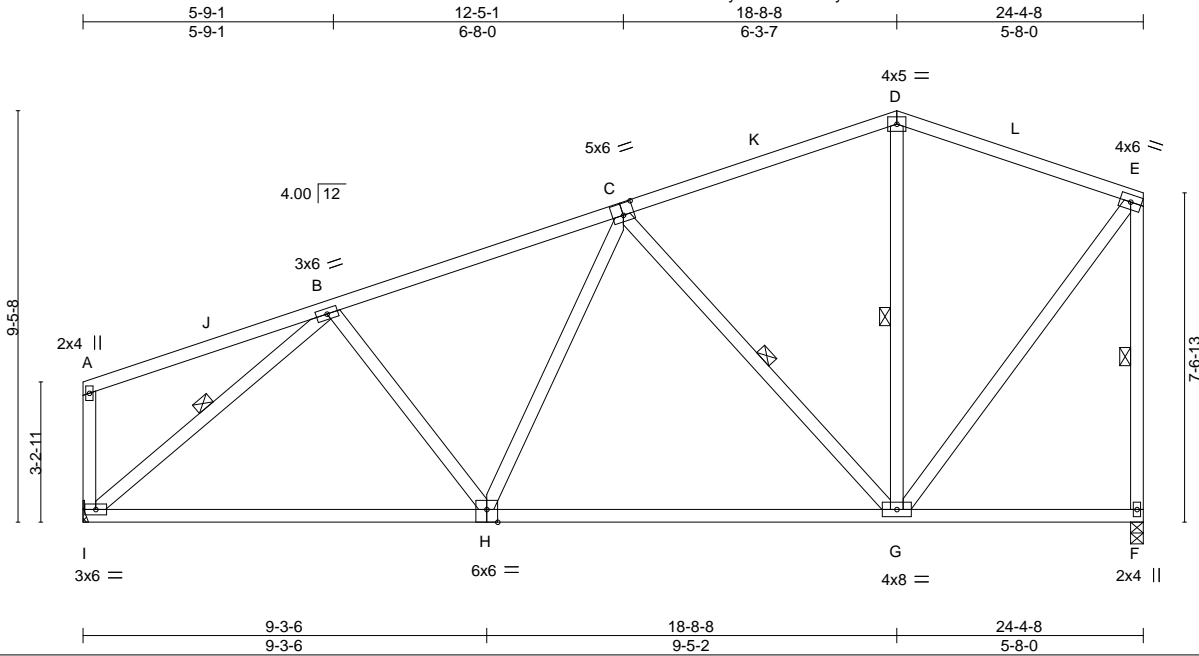
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 251264	Truss A4	Truss Type Roof Special	Qty 7	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	I75433599
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:31 2025 Page 1

ID:AvGMvLCC0iAyfYGFMu2TJvy7NIA-8b88O6eM3i6wLxewe8HC7MXH32umdLF0QeN_eyqeU2



Scale = 1:53.0

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2018/TPI2014	TC 0.88 BC 0.88 WB 0.38 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.16 H-I >999 240 Vert(CT) -0.32 H-I >903 180 Horz(CT) 0.03 F n/a n/a	MT20	244/190
TCDL 10.0				Weight: 159 lb	FT = 20%
BCLL 10.0					
BCDL 10.0					

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-9-3 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt C-G, D-G, B-I, E-F

REACTIONS. (size) F=0-3-8, I=Mechanical
 Max Horz I=270(LC 9)
 Max Uplift F=-138(LC 8), I=-154(LC 8)
 Max Grav F=1024(LC 2), I=1060(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1162/247, C-D=-642/251, D-E=-583/254, E-F=-959/226
 BOT CHORD H-I=-233/950, G-H=-177/962
 WEBS C-H=0/287, C-G=-654/206, B-I=-1191/267, E-G=-92/878

- 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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-8-8, Exterior(2R) 15-8-8 to 21-2-12, Exterior(2E) 21-2-12 to 24-2-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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) 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) F=138, I=154.
 - 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



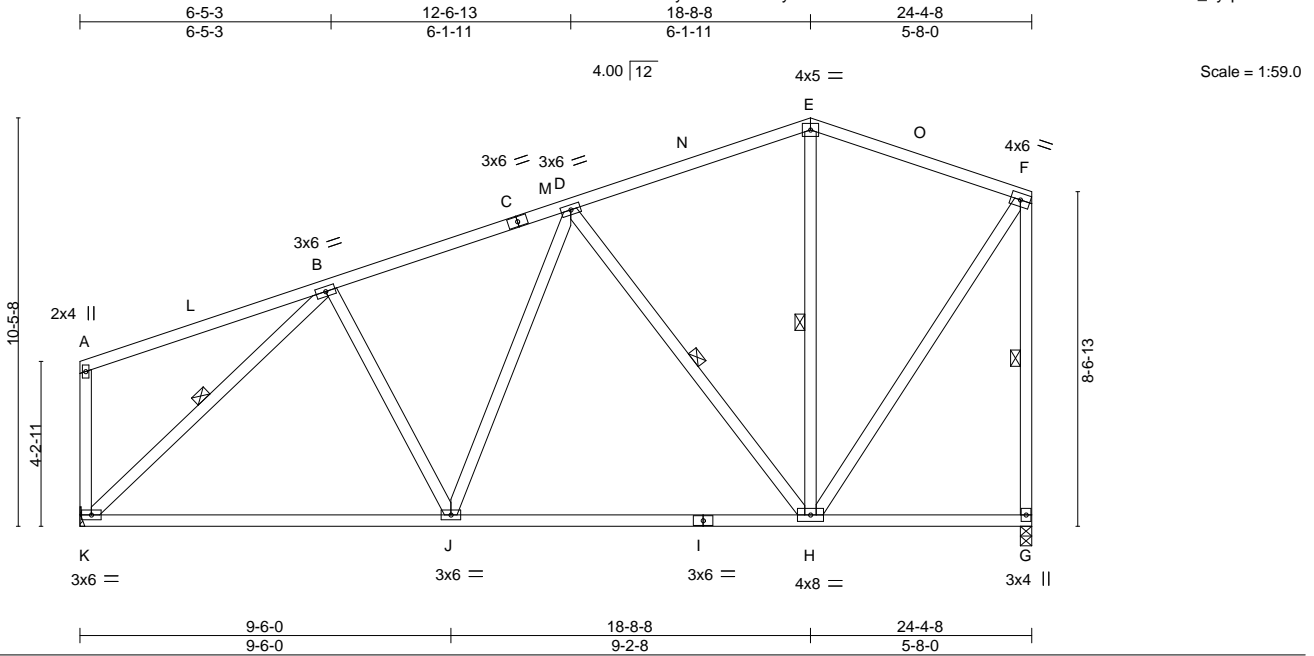
August 7, 2025

Job 251264	Truss A4A	Truss Type Roof Special	Qty 7	Ply 1	REUNION AT BLACKWELL	I75433600
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:31 2025 Page 1

ID:AvGMvLCC0iAyfYGFMu2TJvy7NIA-8b88O6eM3i6wLxewe8HC?MaD32zmbHF0QeN_eyqeU2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2018/TP12014	TC 0.69 BC 0.88 WB 0.45 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.18 J-K >999 240 Vert(CT) -0.37 J-K >786 180 Horz(CT) 0.03 G n/a n/a	MT20	244/190
TCDL 10.0				Weight: 170 lb	FT = 20%
BCLL 10.0					
BCDL 10.0					

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-6-15 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* F-G: 2x4 SP No.2	WEBS 1 Row at midpt D-H, E-H, B-K, F-G


REACTIONS. (size) K=Mechanical, G=0-3-8
 Max Horz K=307(LC 9)
 Max Uplift K=-155(LC 8), G=-142(LC 9)
 Max Grav K=1062(LC 3), G=1024(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-D=-1008/237, D-E=-583/256, E-F=-528/260, F-G=-956/224
 BOT CHORD J-K=-239/830, H-J=-184/836
 WEBS D-J=0/264, D-H=-602/192, B-K=-1097/254, F-H=-99/861

- 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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-8-8, Exterior(2R) 15-8-8 to 21-2-12, Exterior(2E) 21-2-12 to 24-2-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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) 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) K=155, G=142.
 - 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TP1 1.



August 7, 2025

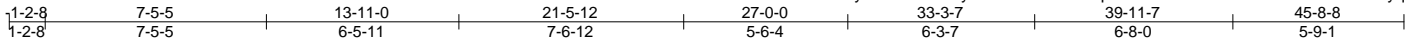
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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/TP1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 251264	Truss B1	Truss Type Common	Qty 7	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	175433601
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Heartland Truss, LLC., Plattsburg, MO - 64477,

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ID:AvGMvLCC0iAyfYGFMu2TjvY7NIA-cnHwBRe?Q0Enz5D7Cro6lCuiiTNVVzhOE4NwW4yqeU1



Scale = 1:77.5

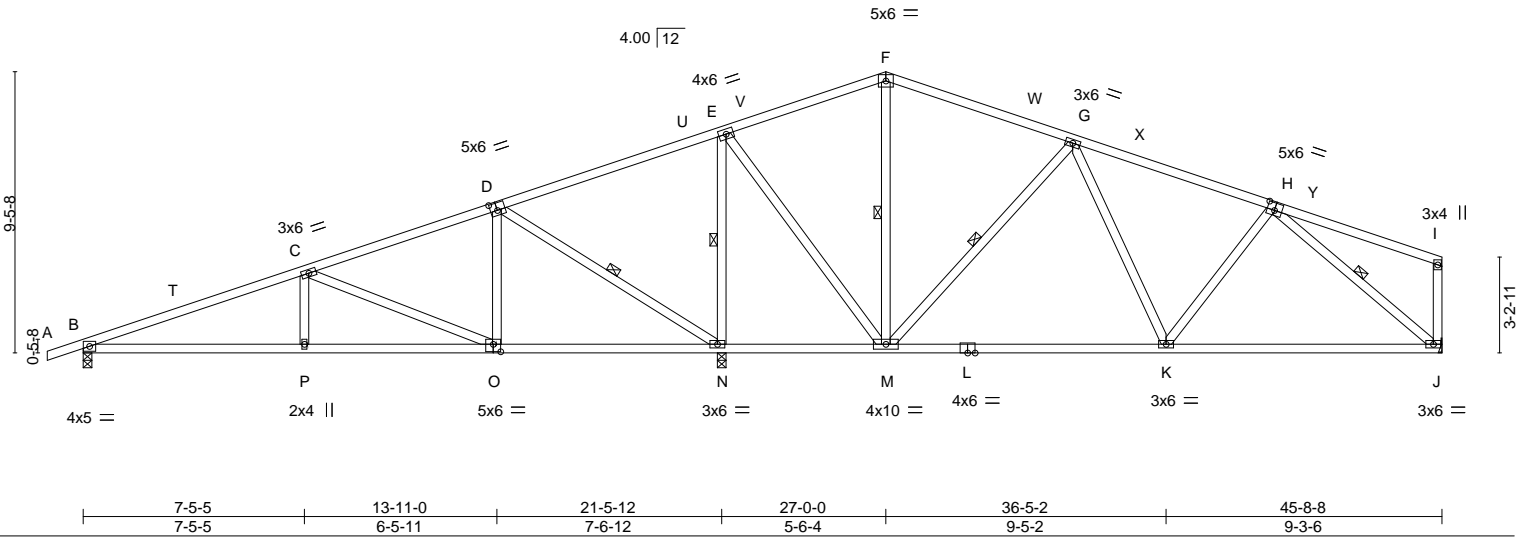


Plate Offsets (X, Y)-- [D:0-2-12,0-3-0], [H:0-3-0,0-3-0], [O:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2018/TPI2014	TC 0.83 BC 0.86 WB 0.82 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.15 J-K >999 240 Vert(CT) -0.31 J-K >936 180 Horz(CT) 0.04 J n/a n/a	MT20	244/190
TCDL 10.0				Weight: 259 lb	FT = 20%
BCLL 10.0					
BCDL 10.0					

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-6-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: M-N.
 WEBS 1 Row at midpt D-N, E-N, F-M, G-M, H-J

REACTIONS. (size) B=0-3-8, N=0-3-8, J=Mechanical
 Max Horz B=172(LC 16)
 Max Uplift B=150(LC 8), N=341(LC 8), J=148(LC 13)
 Max Grav B=722(LC 3), N=2438(LC 2), J=905(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1203/199, C-D=-356/111, D-E=-94/831, F-G=-328/194, G-H=-927/236
 BOT CHORD B-P=-262/1094, O-P=-262/1094, N-O=-69/271, M-N=-731/243, K-M=-106/744, J-K=-169/800
 WEBS C-P=0/279, C-O=-882/208, D-O=0/584, D-N=-1138/257, E-N=-1604/382, E-M=-157/1271, F-M=-319/64, G-M=-806/210, G-K=0/398, H-J=-1013/203

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) -1-2-8 to 3-4-6, Interior(1) 3-4-6 to 22-5-2, Exterior(2R) 22-5-2 to 31-6-14, Interior(1) 31-6-14 to 40-11-14, Exterior(2E) 40-11-14 to 45-6-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=150, N=341, J=148.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



August 7, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 251264	Truss B1A	Truss Type Common	Qty 7	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	175433602
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Heartland Truss, LLC., Plattsburg, MO - 64477,

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Scale = 1:77.1

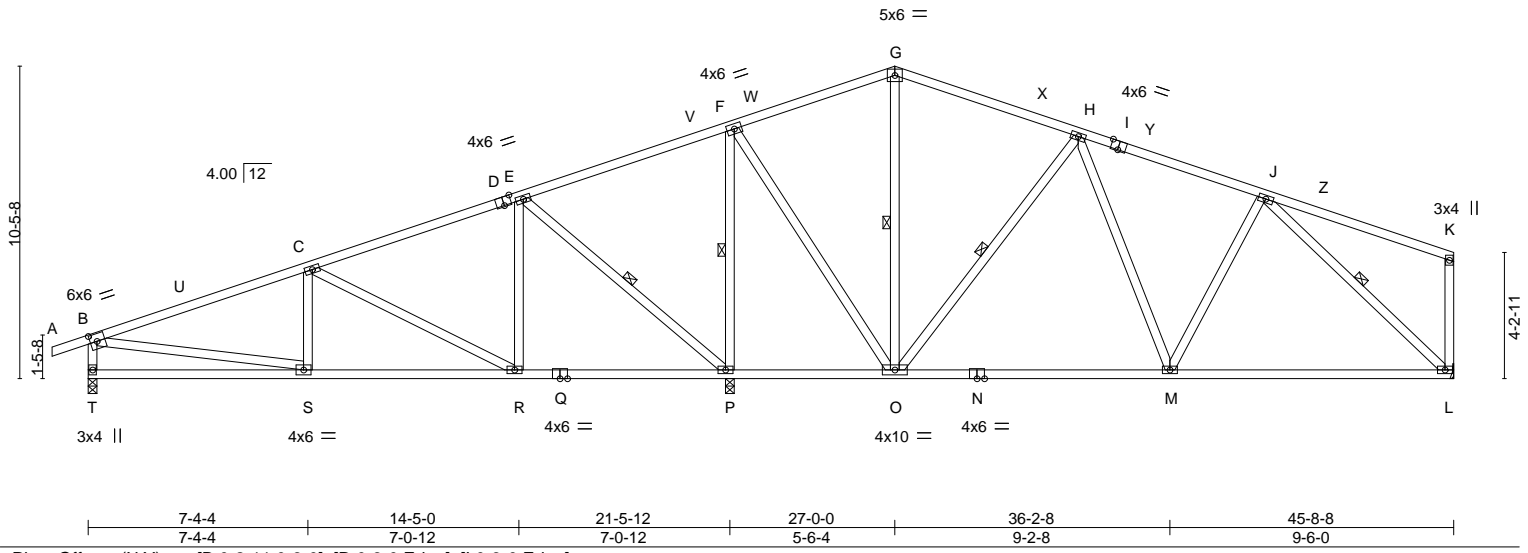


Plate Offsets (X, Y)-- [B:0-2-11,0-3-0], [D:0-3-0,Edge], [I:0-3-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2018/TPI2014	TC 0.71 BC 0.86 WB 0.81 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.18 L-M >999 240 Vert(CT) -0.36 L-M >804 180 Horz(CT) 0.03 L n/a n/a	MT20	244/190
TCDL 10.0				Weight: 287 lb	FT = 20%
BCLL 10.0					
BCDL 10.0					

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-3-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: O-P.
 WEBS 1 Row at midpt E-P, F-P, G-O, H-O, J-L

REACTIONS. (size) P=0-3-8, T=0-3-8, L=Mechanical
 Max Horz T=135(LC 12)
 Max Uplift P=-326(LC 8), T=-159(LC 8), L=-144(LC 13)
 Max Grav P=2340(LC 2), T=772(LC 3), L=939(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-986/175, C-E=-370/133, E-F=-42/606, F-G=-283/228, G-H=-359/224, H-J=-845/257, B-T=-685/229
 BOT CHORD S-T=-193/312, R-S=-217/882, P-R=-60/287, O-P=-523/234, M-O=-97/687, L-M=-151/724
 WEBS C-R=-675/177, E-R=0/557, E-P=-1016/239, F-P=-1475/349, F-O=-135/1167, G-O=-273/48, H-O=-737/198, H-M=0/366, B-S=-61/700, J-L=-962/168

- 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) -1-2-8 to 3-4-6, Interior(1) 3-4-6 to 22-5-2, Exterior(2R) 22-5-2 to 31-6-14, Interior(1) 31-6-14 to 40-11-14, Exterior(2E) 40-11-14 to 45-6-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) All plates are 3x6 MT20 unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) P=326, T=159, L=144.
 - 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



August 7, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®
 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 251264	Truss B2	Truss Type Hip	Qty 1	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	175433603
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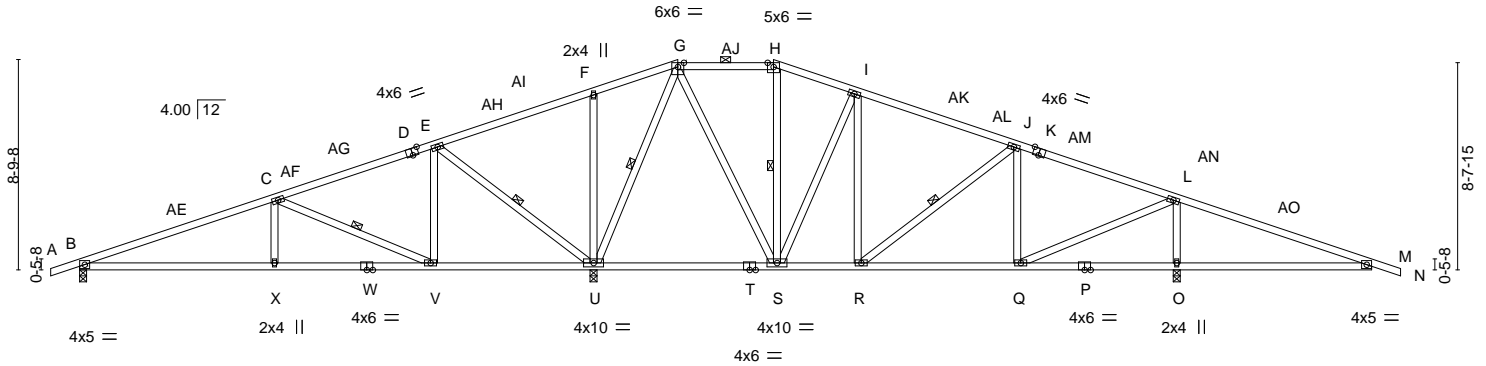
Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:34 2025 Page 1

ID:AvGMvLCC0iAyfYGFMu2Tjvy7NIA-YApG07gFMdUVCONVJGraqd_0BH5rzs4his1bzyqeU?

1-2-8	8-1-12	14-9-12	21-5-12	25-0-0	29-0-0	32-6-4	39-2-4	45-10-4	54-0-0	55-2-8
1-2-8	8-1-12	6-8-0	6-8-0	3-6-4	4-0-0	3-6-4	6-8-0	6-8-0	8-1-12	1-2-8

Scale: 1/8"=1'



8-1-12	14-9-12	21-5-12	29-0-0	32-6-4	39-2-4	45-10-4	46-0-0	54-0-0
8-1-12	6-8-0	6-8-0	7-6-4	3-6-4	6-8-0	6-8-0	0-1-12	8-0-0

Plate Offsets (X,Y)-- [D:0-3-0,Edge], [K:0-3-0,Edge]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	2-0-0	TC 0.96	Vert(LL) -0.13	X-AA >999	240		MT20	244/190
(Roof Snow=20.0)	Lumber DOL 1.15		BC 0.74	Vert(CT) -0.26	X-AA >977	180			
TCDL 10.0	Rep Stress Incr YES		WB 0.89	Horz(CT) 0.03	U n/a	n/a			
BCLL 10.0	Code IBC2018/TPI2014		Matrix-MS						
BCDL 10.0								Weight: 306 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
A-D,K-N: 2x4 SP 1650F 1.5E
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-4-12 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): G-H.
BOT CHORD Rigid ceiling directly applied or 4-0-3 oc bracing.
WEBS 1 Row at midpt C-V, E-U, G-U, H-S, J-R

REACTIONS. (size) B=0-3-8, U=0-3-8, O=0-3-8
Max Horz B=146(LC 12)
Max Uplift B=152(LC 8), U=353(LC 8), O=545(LC 9)
Max Grav B=726(LC 39), U=2914(LC 33), O=1882(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1175/176, C-E=-253/87, E-F=-88/1131, F-G=-7/1056, G-H=-271/209, H-I=-342/210,
I-J=-571/202, J-L=-582/132, L-M=-652/1079
BOT CHORD B-X=-228/1072, V-X=-228/1072, S-U=-410/224, R-S=0/473, Q-R=-9/499, O-Q=-948/680,
M-O=-948/680
WEBS C-X=0/320, C-V=-1069/224, E-V=-10/628, E-U=-1342/249, F-U=-571/219, G-U=-1481/172,
G-S=-77/1012, I-S=-717/133, I-R=0/269, J-Q=-501/303, L-Q=-463/1530, L-O=-1651/582

- NOTES-**
- 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) -1-2-8 to 4-2-5, Interior(1) 4-2-5 to 17-4-6, Exterior(2R) 17-4-6 to 36-7-10, Interior(1) 36-7-10 to 49-9-11, Exterior(2E) 49-9-11 to 55-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pf=20.0 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
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - 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) B=152, U=353, O=545.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 7, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job 251264	Truss B2A	Truss Type Hip	Qty 1	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	175433604
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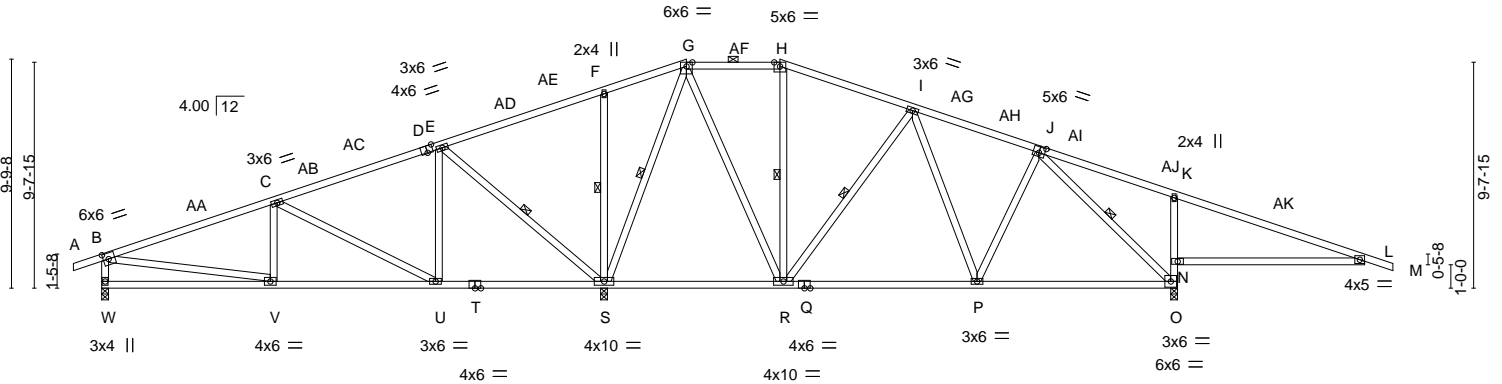
Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:34 2025 Page 1

ID:AvGMvLCC0iAyfYGFMu2TJvy7NIA-YApG07gFMdUVCONVJGraqd_28H6kzr5hiOs1bzyqeU?

1-2-8	7-4-4	14-5-0	21-5-12	25-0-0	29-0-0	34-8-0	40-0-13	54-0-0	55-2-8
1-2-8	7-4-4	7-0-12	7-0-12	3-6-4	4-0-0	5-8-0	5-4-13	13-11-3	1-2-8

Scale = 1:98.5



7-4-4	14-5-0	21-5-12	29-0-0	37-5-2	46-0-0	54-0-0
7-4-4	7-0-12	7-0-12	7-6-4	8-5-2	8-6-14	8-0-0

Plate Offsets (X, Y)-- [B:0-2-11,0-3-0], [D:0-3-0,Edge], [J:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.84 BC 0.68 WB 0.96	in (loc) l/defl L/d Vert(LL) -0.16 O-P >999 240 Vert(CT) -0.74 N-Z >132 90 Horz(CT) 0.02 O n/a n/a Wind(LL) 0.53 N-Z >186 180	MT20	244/190
TCDL 10.0	Rep Stress Incr YES	Matrix-MS		Weight: 325 lb	FT = 20%
BCLL 10.0	Code IBC2018/TPI2014				
BCDL 10.0					

LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E *Except*
 G-H: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
 L-N: 2x4 SP 1650F 1.5E
WEBS 2x4 SP No.3 *Except*
 K-O: 2x4 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): G-H.
BOT CHORD Rigid ceiling directly applied or 5-1-5 oc bracing.
WEBS 1 Row at midpt E-S, F-S, G-S, H-R, I-R, J-O

REACTIONS. (size) S=0-3-8, O=0-3-8, W=0-3-8
 Max Horz W=-136(LC 17)
 Max Uplift S=-351(LC 8), O=-539(LC 9), W=-155(LC 8)
 Max Grav S=2837(LC 33), O=1911(LC 39), W=760(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-971/142, C-E=-329/93, E-F=-59/906, F-G=0/813, G-H=-279/213, H-I=-369/199,
 I-J=-524/173, J-K=-376/847, K-L=-676/1158, B-W=-683/214
BOT CHORD V-W=-187/272, U-V=-201/895, S-U=-45/300, R-S=-292/208, P-R=0/479, O-P=-61/359,
 L-N=-1019/700
WEBS N-O=-778/408, K-N=-679/331, C-U=-741/176, E-U=0/574, E-S=-1289/249, F-S=-592/227,
 G-S=-1344/156, G-R=-85/988, H-R=-313/114, I-R=-566/130, J-P=-79/449, J-O=-1492/409,
 B-V=-25/703

- 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) -1-2-8 to 4-2-5, Interior(1) 4-2-5 to 17-4-6, Exterior(2R) 17-4-6 to 36-7-10, Interior(1) 36-7-10 to 49-9-11, Exterior(2E) 49-9-11 to 55-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 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) except (jt=lb) S=351, O=539, W=155.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 7, 2025

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Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL
251264	B3	Hip	1	1	175433605

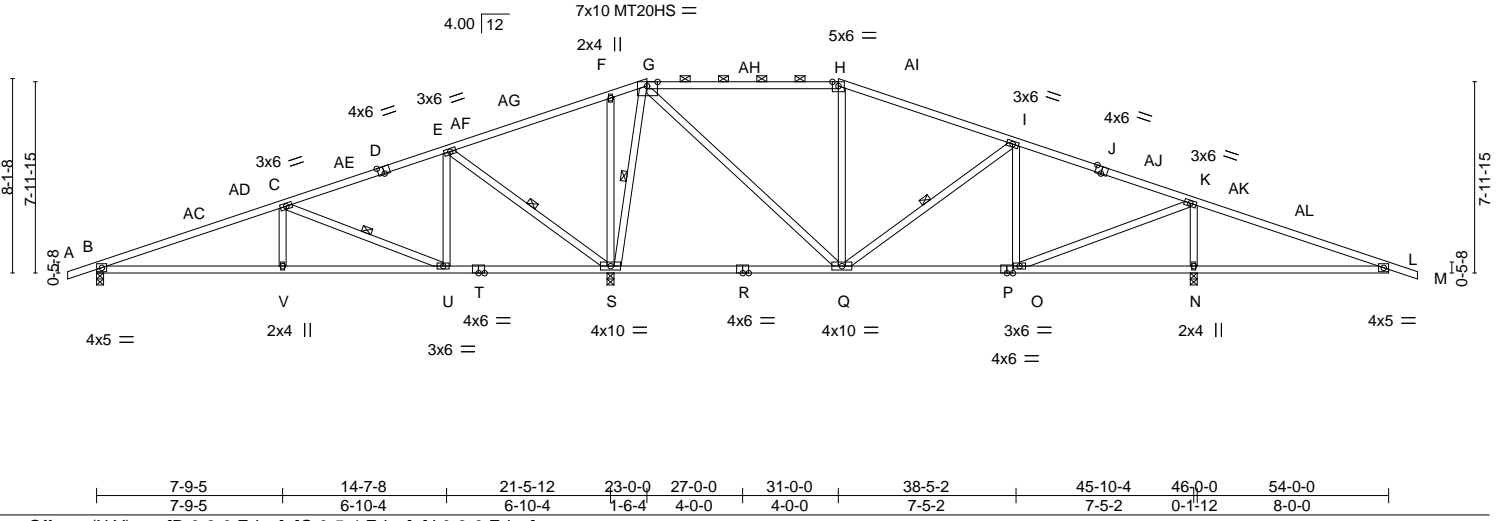
Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:35 2025 Page 1

ID:AvGMVLC00iAyfYGFMu2Tjvy7NIA-OMNFETht7xcMqYxitzMpNrWE9gRKiMGrx2ca7PyqeU_

1-2-8	7-9-5	14-7-8	21-5-12	23-0-0	27-0-0	31-0-0	38-5-2	45-10-4	54-0-0	55-2-8
1-2-8	7-9-5	6-10-4	6-10-4	1-6-4	4-0-0	4-0-0	7-5-2	7-5-2	8-1-12	1-2-8

Scale: 1/8"=1'



7-9-5	14-7-8	21-5-12	23-0-0	27-0-0	31-0-0	38-5-2	45-10-4	46-0-0	54-0-0
7-9-5	6-10-4	6-10-4	1-6-4	4-0-0	4-0-0	7-5-2	7-5-2	0-1-12	8-0-0

Plate Offsets (X, Y)-- [D:0-3-0,Edge], [G:0-5-4,Edge], [J:0-3-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.82	in (loc) l/defl L/d	MT20	244/190
(Roof Snow=20.0)	Plate Grip DOL 1.15	BC 0.72	Vert(LL) -0.16 Q-S >999 240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.64	Vert(CT) -0.33 Q-S >889 180		
BCLL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 S n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 287 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E *Except* G-H: 2x4 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (6-0-0 max.): G-H.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 4-2-2 oc bracing.
	WEBS 1 Row at midpt C-U, E-S, G-S, I-Q

REACTIONS. (size) B=0-3-8, S=0-3-8, N=0-3-8
 Max Horz B=135(LC 12)
 Max Uplift B=-155(LC 8), S=-365(LC 8), N=-554(LC 9)
 Max Grav B=739(LC 39), S=2787(LC 39), N=1874(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1251/194, C-E=-271/102, E-F=-80/1197, F-G=-8/1053, G-H=-409/230, H-I=-494/207, I-K=-637/162, K-L=-656/1072
 BOT CHORD B-V=-235/1137, U-V=-235/1137, Q-S=-811/248, O-Q=0/523, N-O=-939/684, L-N=-939/684
 WEBS C-V=0/316, C-U=-1136/221, E-U=-6/629, E-S=-1402/259, F-S=-602/184, G-S=-1291/220, G-Q=-130/1249, H-Q=-471/223, I-Q=-408/67, I-O=-449/298, K-O=-514/1549, K-N=-1639/606

- 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) -1-2-8 to 4-2-5, Interior(1) 4-2-5 to 15-4-6, Exterior(2R) 15-4-6 to 38-5-2, Interior(1) 38-5-2 to 49-9-11, Exterior(2E) 49-9-11 to 55-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 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) except (jt=lb) B=155, S=365, N=554.
 - 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 7, 2025

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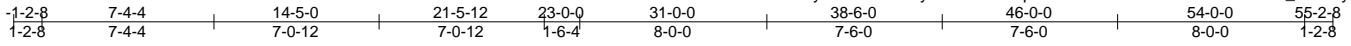
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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL	175433606
251264	B3A	Hip	1	1	Job Reference (optional)	

Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:36 2025 Page 1

ID:AvGMvLCC0iAyfYGFMu2Tjvy7NIA-UZx1RphVuEkDRiWuRht2v23Ok4oWRkR_9iL8eryqeTz



Scale = 1:98.5

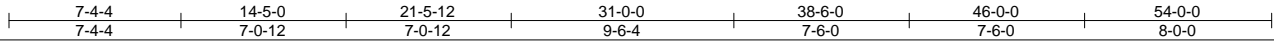
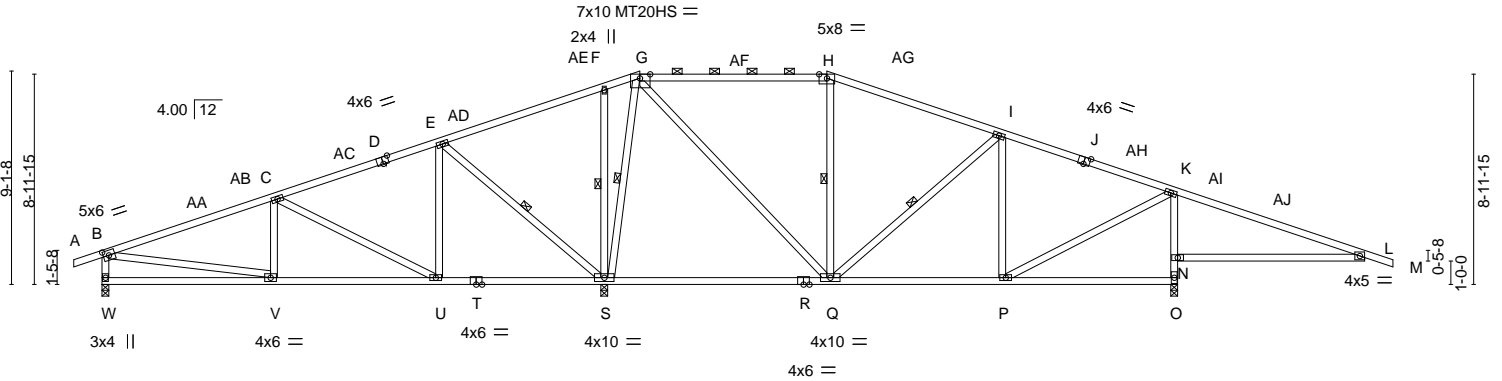


Plate Offsets (X,Y)-- [B:0-2-14,0-2-8], [D:0-3-0,Edge], [G:0-5-4,Edge], [J:0-3-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.90	Vert(LL) -0.17 Q-S >999 240	MT20	244/190
(Roof Snow=20.0)	Lumber DOL 1.15	BC 0.66	Vert(CT) -0.75 N-Z >131 90	MT20HS	187/143
TCDL 10.0	Rep Stress Incr YES	WB 0.97	Horz(CT) 0.02 S n/a n/a		
BCLL 10.0	Code IBC2018/TPI2014	Matrix-MS	Wind(LL) 0.53 N-Z >184 180		
BCDL 10.0				Weight: 313 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E *Except*
G-H: 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2 *Except*
L-N: 2x4 SP 1650F 1.5E
WEBS 2x4 SP No.3 *Except*
K-O: 2x4 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): G-H.
BOT CHORD Rigid ceiling directly applied or 5-1-1 oc bracing.
WEBS 1 Row at midpt F-S, E-S, G-S, H-Q, I-Q

REACTIONS. (size) W=0-3-8, O=0-3-8, S=0-3-8
Max Horz W=-125(LC 17)
Max Uplift W=-159(LC 8), O=-545(LC 9), S=-361(LC 8)
Max Grav W=784(LC 33), O=1914(LC 39), S=2696(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1039/152, C-E=-358/105, E-F=-48/930, F-G=0/784, G-H=-396/224, H-I=-481/200, I-K=-577/153, K-L=-679/1161, B-W=-717/217
BOT CHORD V-W=-176/262, U-V=-200/941, S-U=-47/291, Q-S=-604/231, P-Q=0/465, O-P=-757/522, L-N=-1021/704
WEBS N-O=-1848/705, K-N=-1753/630, F-S=-608/192, E-S=-1322/253, E-U=-3/586, C-U=-803/172, G-S=-1223/210, G-Q=-128/1121, H-Q=-481/223, I-Q=-339/68, I-P=-471/276, K-P=-391/1347, B-V=-33/772

- 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) -1-2-8 to 4-2-5, Interior(1) 4-2-5 to 15-4-6, Exterior(2R) 15-4-6 to 38-6-0, Interior(1) 38-6-0 to 49-9-11, Exterior(2E) 49-9-11 to 55-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 7) All plates are 3x6 MT20 unless otherwise indicated.
 - 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) except (jt=lb) W=159, O=545, S=361.
 - 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 7, 2025

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Job 251264	Truss B4	Truss Type Hip	Qty 1	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	175433607
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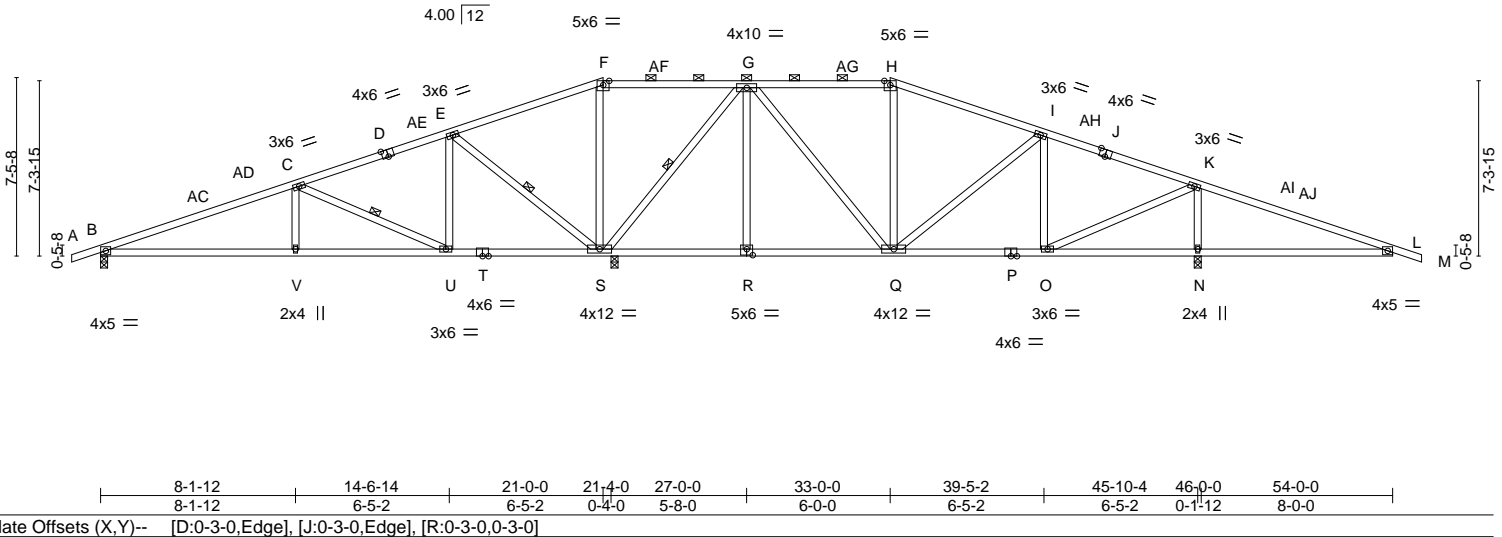
Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:37 2025 Page 1

ID:AvGMvLCC0iAyfYGFMu2TJvy7NIA-yIVPf9i7fYs33s54_OOHSgCxpU6uAFI8OM5hBlyqeTy

1-2-8	8-1-12	14-6-14	21-0-0	27-0-0	33-0-0	39-5-2	45-10-4	54-0-0	55-2-8
1-2-8	8-1-12	6-5-2	6-5-2	6-0-0	6-0-0	6-5-2	6-5-2	8-1-12	1-2-8

Scale: 1/8"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 1.00 BC 0.78 WB 0.71	in (loc) l/def L/d Vert(LL) -0.14 V-Y >999 240 Vert(CT) -0.28 V-Y >906 180 Horz(CT) 0.03 S n/a n/a	MT20	244/190
TCDL 10.0	Rep Stress Incr YES	Matrix-MS		Weight: 290 lb	FT = 20%
BCLL 10.0	Code IBC2018/TPI2014				
BCDL 10.0					

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* A-D,J-M: 2x4 SP 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-2-0 max.): F-H.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 3-7-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt C-U, E-S, G-S


REACTIONS. (size) B=0-3-8, S=0-3-8, N=0-3-8
 Max Horz B=122(LC 12)
 Max Uplift B=-151(LC 8), S=-379(LC 8), N=-556(LC 9)
 Max Grav B=765(LC 33), S=2619(LC 39), N=1938(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1275/187, C-E=-250/137, E-F=-73/1174, F-G=-18/1025, G-H=-494/224,
 H-I=-542/206, I-K=-563/137, K-L=-652/1135
 BOT CHORD B-V=-218/1142, U-V=-218/1142, R-S=-293/302, Q-R=-293/302, O-Q=-3/445, N-O=-965/681,
 L-N=-965/681
 WEBS C-V=0/317, C-U=-1181/217, E-U=-11/677, E-S=-1410/269, F-S=-719/207, G-S=-1344/224,
 G-Q=-47/733, H-Q=-316/154, I-O=-524/319, K-O=-503/1503, K-N=-1704/610

- 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) -1-2-8 to 4-2-5, Interior(1) 4-2-5 to 13-4-6, Exterior(2R) 13-4-6 to 40-7-10, Interior(1) 40-7-10 to 49-9-11, Exterior(2E) 49-9-11 to 55-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 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) except (jt=lb) B=151, S=379, N=556.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 7, 2025

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 251264	Truss B4A	Truss Type Hip	Qty 1	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	175433608
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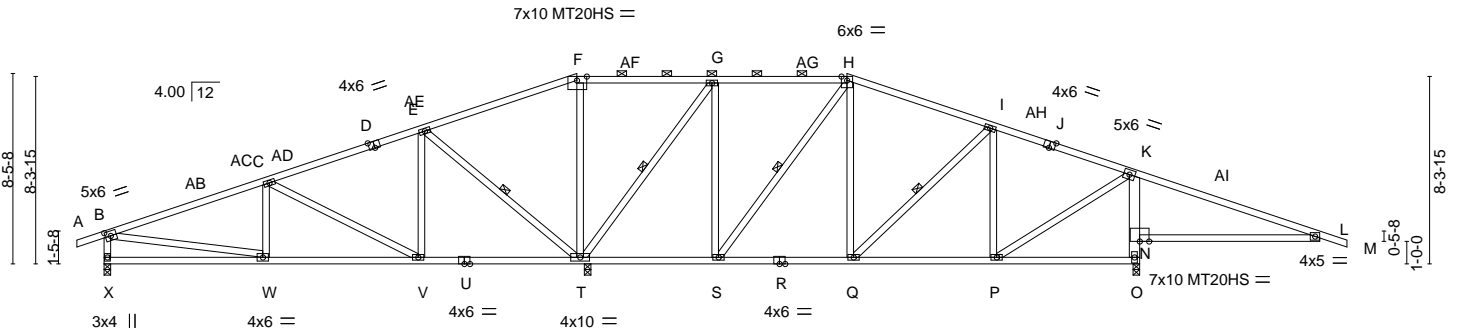
Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:38 2025 Page 1

ID:AvGMvLCC0iAyfYGFMu2TJvy7NIA-Qx3nsVjIQs_Wh0gHY6vW?T8jQuVuvfUHd?qFjkyqeTx

-1-2-8	7-2-5	14-1-3	21-0-0	27-1-12	33-0-0	39-6-0	46-0-0	54-0-0	55-2-8
1-2-8	7-2-5	6-10-13	6-10-13	6-1-12	5-10-4	6-6-0	6-6-0	8-0-0	1-2-8

Scale = 1:102.3



7-2-5	14-1-3	21-0-0	21-4-0	27-1-12	33-0-0	39-6-0	46-0-0	54-0-0
7-2-5	6-10-13	6-10-13	0-4-0	5-9-12	5-10-4	6-6-0	6-6-0	8-0-0

Plate Offsets (X, Y)-- [B:0-2-14,0-2-8], [D:0-3-0,Edge], [F:0-5-4,Edge], [J:0-3-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2018/TPI2014	TC 0.95 BC 0.54 WB 0.93 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.06 W-X >999 240 Vert(CT) -0.13 W-X >999 180 Horz(CT) 0.02 T n/a n/a	MT20 244/190 MT20HS 187/143	Weight: 320 lb FT = 20%
TCDL 10.0					
BCLL 10.0					
BCDL 10.0					

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E *Except* F-H: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): F-H, K-O. Except: 4-7-0 oc bracing: N-O
BOT CHORD 2x4 SP No.2 *Except* L-N: 2x4 SP 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 5-10-1 oc bracing.
WEBS 2x4 SP No.3 *Except* K-O: 2x6 SP No.1	WEBS 1 Row at midpt E-T, G-T, H-S, I-Q

REACTIONS. (size) O=0-3-8, T=0-3-8, X=0-3-8
 Max Horz X=134(LC 12)
 Max Uplift O=542(LC 9), T=400(LC 8), X=145(LC 8)
 Max Grav O=1953(LC 39), T=2554(LC 39), X=816(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1087/133, C-E=-398/91, E-F=-73/948, F-G=-22/831, G-H=-251/262, H-I=-454/177, I-K=-463/115, K-L=-597/1132, N-O=-1903/701, K-N=-1771/607, B-X=-748/210
 BOT CHORD V-W=-201/969, T-V=-50/327, S-T=-224/271, Q-S=0/433, P-Q=-8/367, O-P=-819/571, L-N=-965/623
 WEBS C-V=-811/170, E-V=0/612, E-T=-1386/269, F-T=-664/215, G-S=0/712, G-T=-1247/231, H-Q=0/300, H-S=-658/66, I-P=-554/292, K-P=-412/1328, B-W=-19/800

- 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) -1-2-8 to 4-2-5, Interior(1) 4-2-5 to 13-4-6, Exterior(2R) 13-4-6 to 40-7-10, Interior(1) 40-7-10 to 55-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 7) All plates are 3x6 MT20 unless otherwise indicated.
 - 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) except (jt=lb) O=542, T=400, X=145.
 - 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 7, 2025

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MiTek®
 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL	175433609
251264	B5	Hip	1	1	Job Reference (optional)	

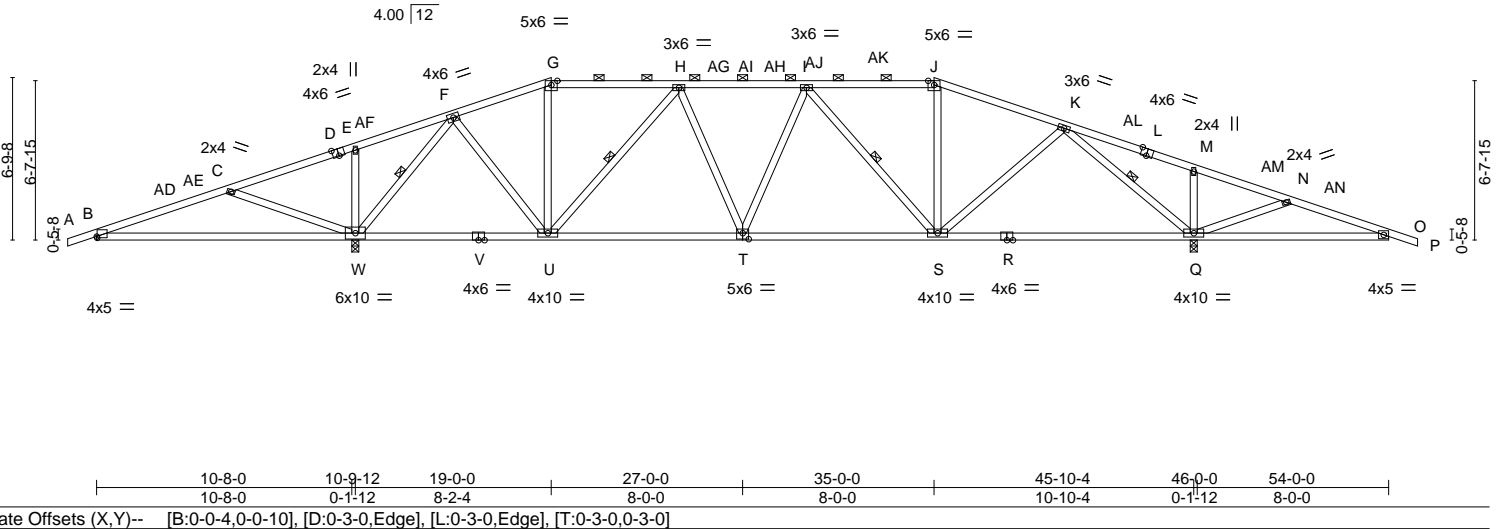
Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:39 2025 Page 1

ID:AvGMVLC00iAyfYGFMu2TJvy7NIA-v8d93rkOB96nl9FT6pRIXhhvkve9wQrfaoFAyqeTw

1-2-8	5-7-7	10-9-12	14-10-14	19-0-0	24-4-0	29-8-0	35-0-0	40-5-2	45-10-4	49-8-9	54-0-0	55-2-8
1-2-8	5-7-7	5-2-5	4-1-2	4-1-2	5-4-0	5-4-0	5-4-0	5-5-2	5-5-2	3-10-5	4-3-7	1-2-8

Scale: 1/8"=1'



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.85	in (loc) l/defl L/d	MT20	244/190
(Roof Snow=20.0)	Lumber DOL 1.15	BC 1.00	Vert(LL) -0.24 Q-S >999 240		
TCDL 10.0	Rep Stress Incr YES	WB 0.73	Vert(CT) -0.60 W-Z >217 90		
BCLL 10.0	Code IBC2018/TPI2014	Matrix-MS	Horz(CT) 0.07 Q n/a n/a		
BCDL 10.0				Weight: 292 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* A-D,L-P: 2x4 SP 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 4-6-8 oc purlins, except 2-0-0 oc purlins (3-10-8 max.): G-J.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 1-4-12 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt F-W, H-U, I-S, K-Q

REACTIONS. (size) W=0-3-8, Q=0-3-8
 Max Horz W=-111(LC 13)
 Max Uplift W=-710(LC 8), Q=-599(LC 9)
 Max Grav W=2814(LC 39), Q=2416(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-559/953, C-E=-830/1810, E-F=-768/1794, F-G=-1174/203, G-H=-1106/205,
 H-I=-1875/278, I-J=-1493/222, J-K=-1595/209, K-M=-652/1315, M-N=-706/1296,
 N-O=-489/718
 BOT CHORD B-W=-813/568, U-W=-209/512, T-U=-34/1778, S-T=-43/1906, Q-S=-15/939, O-Q=-626/494
 WEBS C-W=-926/367, E-W=-444/156, F-W=-2339/782, F-U=-283/1158, H-U=-1035/277,
 H-T=-23/393, I-S=-637/141, J-S=-23/251, K-S=-105/784, K-Q=-2311/787, M-Q=-459/152,
 N-Q=-592/295

- 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) -1-2-8 to 4-2-5, Interior(1) 4-2-5 to 11-4-6, Exterior(2R) 11-4-6 to 26-7-10, Interior(1) 26-7-10 to 27-4-6, Exterior(2R) 27-4-6 to 42-7-10, Interior(1) 42-7-10 to 49-9-11, Exterior(2E) 49-9-11 to 55-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) This truss has been designed for a 10.0 psf bottom chord live loads.
 - 7) Provide mechanical connection (by others) of truss to b... uplift at joint(s) except (jt=lb)
W=710, Q=599
 - 8) This truss is designed in accordance with the 2018 Inter... referenced standard ANSI/TPI 1.
 - 9) Graphical purlin representation does not depict the size... p and/or bottom chord.

CONTRACTOR TO INSTALL (2) H2.5A CONNECTORS AT EACH LOCATION



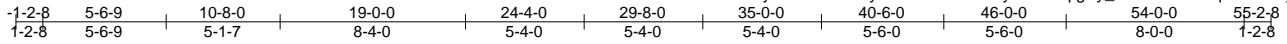
August 7, 2025

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL	175433610
251264	B5A	Hip	1	1	Job Reference (optional)	

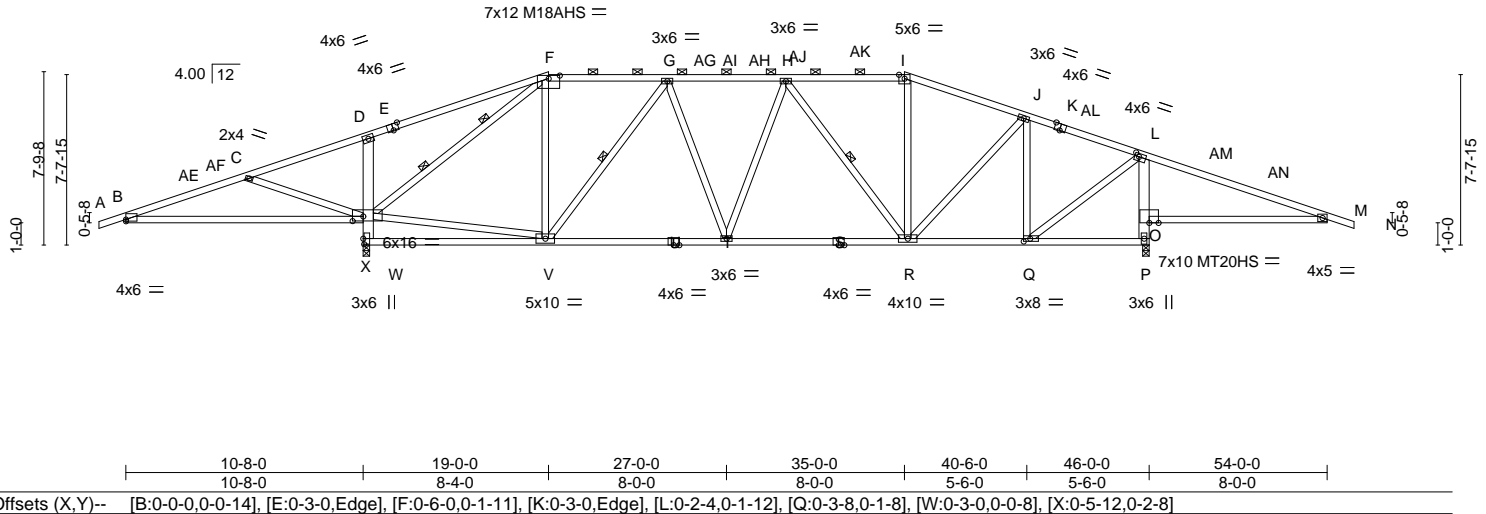
Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:40 2025 Page 1

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Scale = 1:103.6



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.82	in (loc)	l/def	L/d	MT20	244/190	
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.78	Vert(LL)	-0.15 R-T	>999	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.88	Vert(CT)	-0.67 X-AA	>195	90	M18AHS	186/179
BCLL	10.0	Code IBC2018/TPI2014		Matrix-MS		Horz(CT)	0.04 P	n/a	n/a		Weight: 319 lb FT = 20%
BCDL	10.0										

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E *Except* F-I: 2x4 SP No.2, I-K,E-F: 2x4 SP 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-11 max.): F-I, D-W, L-P. Except: 4-0-0 oc bracing: O-P 4-5-0 oc bracing: W-X
BOT CHORD 2x4 SP No.2 *Except* B-X,M-O: 2x4 SP 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 5-9-2 oc bracing.
WEBS 2x4 SP No.3 *Except* D-W,L-P: 2x6 SP No.1, F-X: 2x4 SP No.2	WEBS 1 Row at midpt G-V, H-R 2 Rows at 1/3 pts F-X

REACTIONS.	(size) W=0-3-8, P=0-3-8 Max Horz W=183(LC 12) Max Uplift W=710(LC 8), P=599(LC 9) Max Grav W=2815(LC 39), P=2415(LC 39)
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FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	B-C=-552/960, C-D=-824/1810, D-F=-681/1663, F-G=-951/203, G-H=-1599/264, H-I=-1263/225, I-J=-1349/211, J-L=-837/125, L-M=-598/1223, W-X=-2701/887, D-X=-793/265, O-P=-2344/731, L-O=-2212/641
BOT CHORD	B-X=-817/561, V-W=-283/283, T-V=-52/1516, R-T=-64/1623, Q-R=-18/775, P-Q=-884/567, M-O=-1028/623
WEBS	C-X=-901/365, F-V=-99/907, G-V=-962/243, G-T=-51/386, H-R=-609/120, J-R=-119/729, J-Q=-870/299, L-Q=-419/1727, V-X=-14/1050, F-X=-2515/744

- 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) -1-2-8 to 4-2-5, Interior(1) 4-2-5 to 19-0-0, Exterior(2E) 19-0-0 to 26-7-10, Interior(1) 26-7-10 to 27-4-6, Exterior(2R) 27-4-6 to 42-7-10, Interior(1) 42-7-10 to 55-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 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 be **CONTRACTOR TO INSTALL (2) H2.5A CONNECTORS AT EACH LOCATION** uplift at joint(s) except (jt=lb)
 - 9) This truss is designed in accordance with the 2018 International Building Code (IBC) and referenced standard ANSI/TPI 1.
 - 10) Graphical purlin representation does not depict the size and/or bottom chord.



August 7, 2025

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL	175433611
251264	B6	Hip	1	1	Job Reference (optional)	

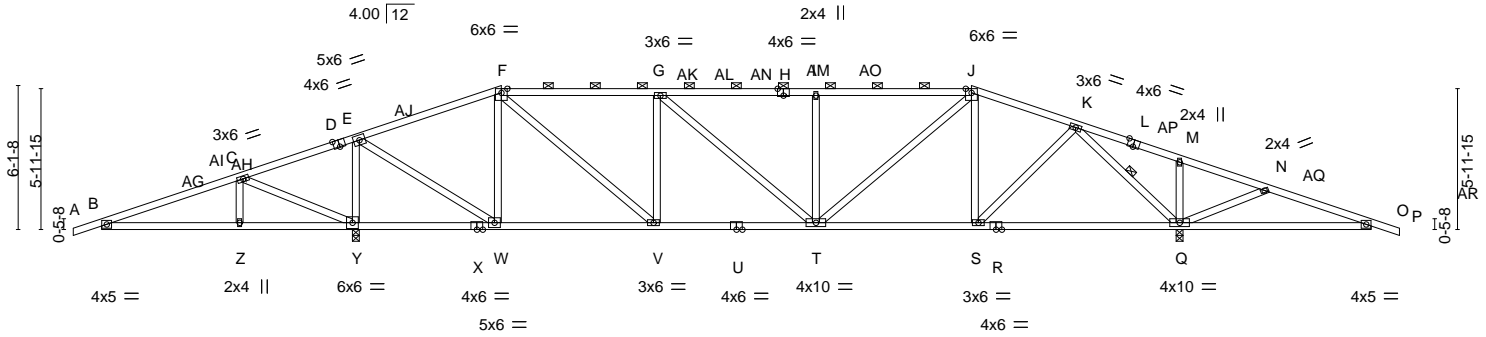
Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:41 2025 Page 1

ID:AvGMvLCC0iAyfYGFMu2TJvy7NIA-rWkwUWlejnMVYTPrDETDc6mCB5UQ60_jJz3vK3yqeTu

-1-2-8	5-10-7	10-9-12	17-0-0	23-7-7	30-4-9	37-0-0	41-5-2	45-10-4	49-5-9	54-0-0	55-2-8
1-2-8	5-10-7	4-11-5	6-2-4	6-7-7	6-9-3	6-7-7	4-5-2	4-5-2	3-7-5	4-6-7	1-2-8

Scale = 1:98.0



5-10-7	10-8-0	10-9-12	17-0-0	23-7-7	30-4-9	37-0-0	45-10-4	46-0-0	54-0-0
5-10-7	4-9-9	0-1-12	6-2-4	6-7-7	6-9-3	6-7-7	8-10-4	0-1-12	8-0-0

Plate Offsets (X, Y)-- [D:0-3-0,Edge], [H:0-3-0,Edge], [L:0-3-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.98	Vert(LL)	-0.18	T-V	>999	MT20	244/190
(Roof Snow=20.0)	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.29	T-V	>999		
TCDL 10.0	Rep Stress Incr	YES	WB 0.95	Horz(CT)	0.06	Q	n/a		
BCLL 10.0	Code IBC2018/TPI2014		Matrix-MS						
BCDL 10.0								Weight: 290 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP 1650F 1.5E *Except*
 A-D,L-P: 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (3-7-8 max.): F-J.
 BOT CHORD Rigid ceiling directly applied or 4-3-5 oc bracing.
 WEBS 1 Row at midpt K-Q

REACTIONS. (size) Y=0-3-8, Q=0-3-8
 Max Horz Y=-100(LC 13)
 Max Uplift Y=-718(LC 8), Q=-606(LC 9)
 Max Grav Y=2769(LC 39), Q=2378(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-501/1030, C-E=-844/1999, E-F=-1064/186, F-G=-2156/318, G-I=-2338/314,
 I-J=-2341/316, J-K=-1643/197, K-M=-645/1495, M-N=-694/1480, N-O=-501/862
 BOT CHORD B-Z=-885/530, Y-Z=-885/530, W-Y=-1823/924, V-W=-76/1011, T-V=-80/2153,
 S-T=-29/1566, Q-S=-14/882, O-Q=-738/510
 WEBS C-Z=-128/251, C-Y=-1020/429, E-Y=-2220/766, E-W=-677/2286, F-W=-1038/443,
 F-V=-296/1513, G-V=-855/278, G-T=-105/382, I-T=-700/218, J-T=-186/1023,
 J-S=-528/230, K-S=-161/980, K-Q=-2242/715, M-Q=-373/131, N-Q=-667/274

- 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) -1-2-8 to 4-2-5, Interior(1) 4-2-5 to 9-4-6, Exterior(2R) 9-4-6 to 24-7-10, Interior(1) 24-7-10 to 29-4-6, Exterior(2R) 29-4-6 to 44-7-10, Interior(1) 44-7-10 to 49-8-2, Exterior(2E) 49-8-2 to 55-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) This truss has been designed for a 10.0 psf bottom chord loads.
 - 7) Provide mechanical connection (by others) of truss to bearing wall. Uplift at joint(s) except (jt=lb) Y=718, Q=606. Referenced standard ANSI/TPI 1.
 - 8) This truss is designed in accordance with the 2018 International Building Code and/or bottom chord.
 - 9) Graphical purlin representation does not depict the size or

CONTRACTOR TO INSTALL (2) H2.5A CONNECTORS AT EACH LOCATION



August 7, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 the design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®
 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 251264	Truss B6A	Truss Type Hip	Qty 1	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	175433612
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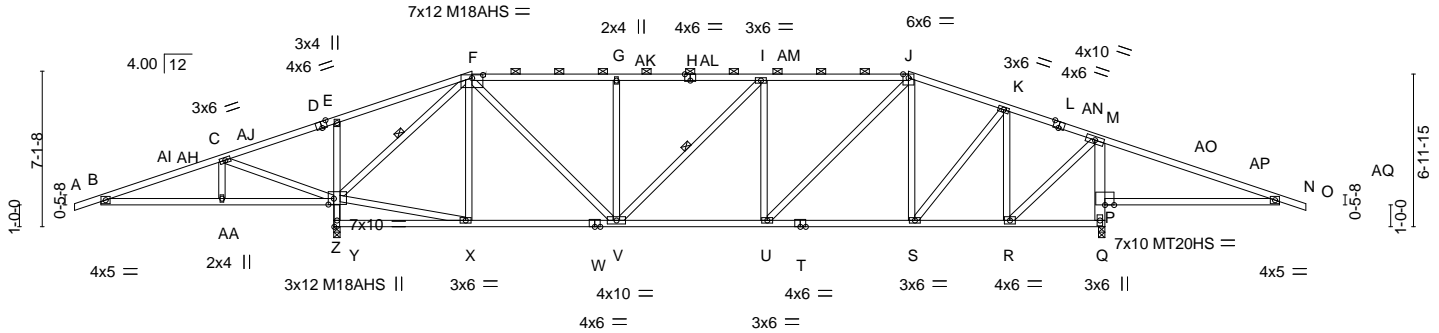
Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:42 2025 Page 1

ID:AvGMVlCC0iAyfYGFMu2Tjvy7NIA-JjllismGT4UMAd_2ny_S9JQwVq8rT9tYdoSsVyqeTt

-1-2-8	5-6-9	10-8-0	17-0-0	23-7-7	30-4-9	37-0-0	41-6-0	46-0-0	49-9-7	54-0-0	55-2-8
1-2-8	5-6-9	5-1-7	6-4-0	6-7-7	6-9-3	6-7-7	4-6-0	4-6-0	3-9-7	4-2-9	1-2-8

Scale = 1:105.6



5-6-9	10-8-0	17-0-0	23-7-7	30-4-9	37-0-0	46-0-0	54-0-0
5-6-9	5-1-7	6-4-0	6-7-7	6-9-3	6-7-7	9-0-0	8-0-0

Plate Offsets (X,Y)-- [D:0-3-0,Edge], [F:0-6-0,0-1-11], [H:0-3-0,Edge], [L:0-3-0,Edge], [Z:0-3-0,0-3-4]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15	TC 0.79	Vert(LL) -0.14	U-V	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.71	Vert(CT) -0.23	U-V	>999	180	MT20HS	187/143
BCLL 10.0	Rep Stress Incr YES	WB 0.95	Horz(CT) 0.05	Q	n/a	n/a	M18AHS	186/179
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MS						Weight: 318 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E *Except* A-D,L-O: 2x4 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied or 5-11-5 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-0 max.): F-J, E-Y, M-Q. Except: 2-9-0 oc bracing: Y-Z 3-10-0 oc bracing: P-Q
BOT CHORD 2x4 SP No.2 *Except* N-P: 2x4 SP 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 5-0-8 oc bracing.
WEBS 2x4 SP No.3 *Except* M-Q: 2x6 SP No.1	WEBS 1 Row at midpt F-Z, I-V

REACTIONS. (size) Y=0-3-8, Q=0-3-8
Max Horz Y=172(LC 12)
Max Uplift Y=-715(LC 8), Q=-607(LC 9)
Max Grav Y=2764(LC 39), Q=2383(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-482/970, C-E=-843/2011, E-F=-756/1970, F-G=-1826/298, G-I=-1822/296, I-J=-1981/295, J-K=-1370/194, K-M=-765/112, M-N=-635/1367, Y-Z=-2672/827, E-Z=-623/197, P-Q=-2333/675, M-P=-2177/593
BOT CHORD B-AA=-829/508, Z-AA=-829/508, V-X=-70/858, U-V=-101/1978, S-U=-55/1311, R-S=-22/718, Q-R=-1004/598, N-P=-1159/661
WEBS C-AA=-113/254, C-Z=-1073/443, X-Z=-26/872, F-Z=-2541/740, F-V=-241/1379, G-V=-697/193, I-V=-348/91, I-U=-543/196, J-U=-157/954, J-S=-628/205, K-R=-987/272, K-S=-172/958, M-R=-348/1666

- 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) -1-2-8 to 4-2-5, Interior(1) 4-2-5 to 17-0-0, Exterior(2E) 17-0-0 to 24-7-10, Interior(1) 24-7-10 to 37-0-0, Exterior(2E) 37-0-0 to 44-7-10, Interior(1) 44-7-10 to 49-9-11, Exterior(2E) 49-9-11 to 55-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 7) This truss has been designed for a 10.0 psf bottom chord dead load.
 - 8) Provide mechanical connection (by others) of truss to be supported by. Uplift at joint(s) except (jt=lb)
 - 9) This truss is designed in accordance with the 2018 International Building Code and referenced standard ANSI/TPI 1.
 - 10) Graphical purlin representation does not depict the size of the purlin along the top and/or bottom chord.

CONTRACTOR TO INSTALL (2) H2.5A CONNECTORS AT EACH LOCATION



August 7, 2025

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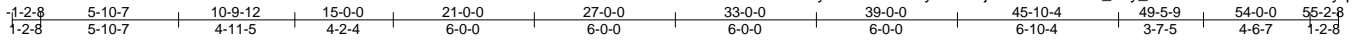
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 251264	Truss B7	Truss Type Hip	Qty 1	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	175433613
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:42 2025 Page 1

ID:AvGMvLCC0iAyfYGFMu2TJvy7NIA-JjllismGT4UMAd_2ny_S9JJPXVmorT4tYdoSsVyqetT



Scale = 1:98.0

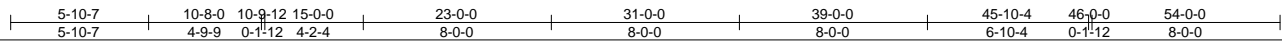
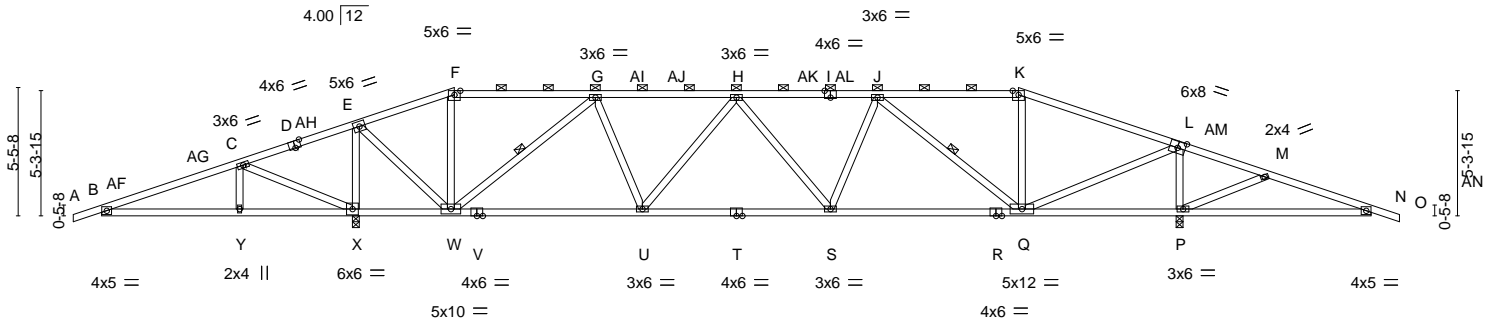


Plate Offsets (X, Y)-- [D:0-3-0,Edge], [I:0-3-0,Edge], [L:0-4-0,0-3-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15		TC 0.88	Vert(LL) -0.23	S-U >999	240		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.99	Vert(CT) -0.39	Q-S >999	180			
BCLL 10.0	Rep Stress Incr YES		WB 0.96	Horz(CT) 0.09	P n/a	n/a			
BCDL 10.0	Code IBC2018/TPI2014		Matrix-MS						
								Weight: 281 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
A-D,L-O: 2x4 SP 1650F 1.5E
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-4 oc purlins, except 2-0-0 oc purlins (2-11-1 max.): F-K.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt G-W, J-Q

REACTIONS. (size) X=0-3-8, P=0-3-8
Max Horz X=89(LC 12)
Max Uplift X=725(LC 8), P=611(LC 9)
Max Grav X=2729(LC 39), P=2343(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-498/1241, C-E=-857/2269, E-F=-728/814, F-G=-684/713, G-H=-2433/317, H-J=-2699/304, J-K=-1486/182, K-L=-1596/172, L-M=-658/1664, M-N=-506/1117
BOT CHORD B-Y=-1082/524, X-Y=-1082/524, W-X=-2090/944, U-W=-118/2192, S-U=-162/2784, Q-S=-141/2591, P-Q=-1477/710, N-P=-981/517
WEBS C-Y=-118/264, C-X=-1097/457, E-X=-2201/726, E-W=-593/2218, F-W=-498/257, G-W=-1953/375, G-U=-56/739, H-U=-564/193, J-S=0/371, J-Q=-1433/254, K-Q=-333/239, L-Q=-541/2309, L-P=-1885/606, M-P=-571/220

- 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) -1-2-8 to 4-2-5, Interior(1) 4-2-5 to 7-4-6, Exterior(2R) 7-4-6 to 22-7-10, Interior(1) 22-7-10 to 31-4-6, Exterior(2R) 31-4-6 to 46-7-10, Interior(1) 46-7-10 to 49-8-2, Exterior(2E) 49-8-2 to 55-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) This truss has been designed for a 10.0 psf bottom chord loads.
 - 7) Provide mechanical connection (by others) of truss to be lifted at joint(s) except (jt=lb) X=725, P=611.
 - 8) This truss is designed in accordance with the 2018 International Building Code referenced standard ANSI/TPI 1.
 - 9) Graphical purlin representation does not depict the size of the orientation of the purlin along the top and/or bottom chord.

CONTRACTOR TO INSTALL (2) H2.5A CONNECTORS AT EACH LOCATION



August 7, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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MiTek®

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Chesterfield, MO 63017
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Job 251264	Truss B7A	Truss Type Hip	Qty 1	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	175433614
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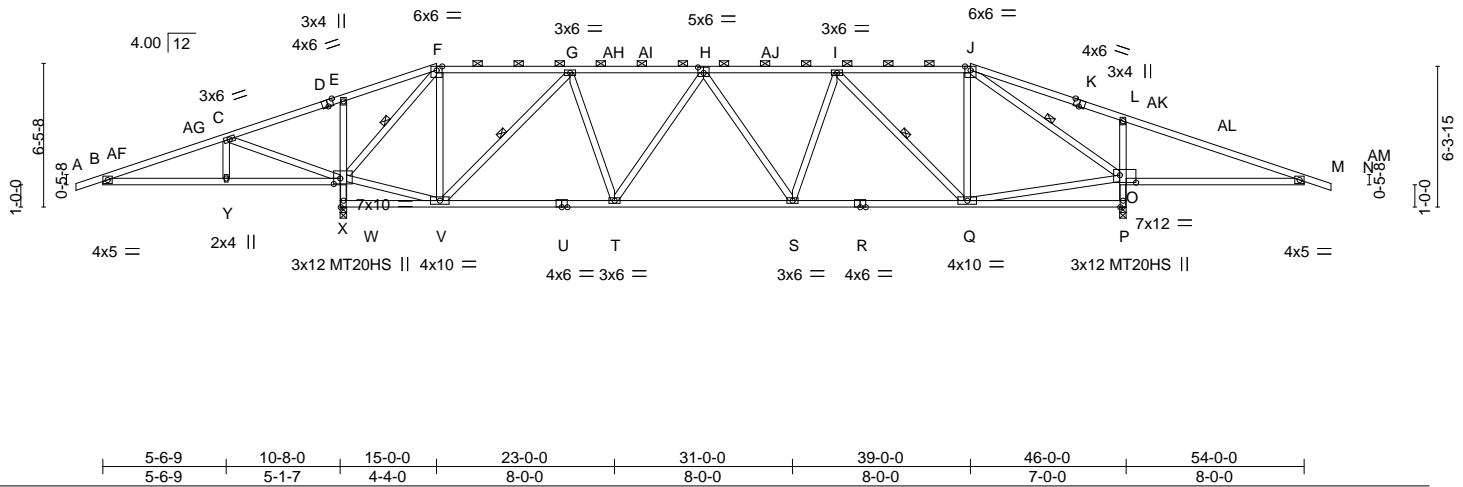
Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:43 2025 Page 1

ID:AvGMvLCC0iAyfYGFMu2TJvy7NIA-nvsgvCnuEOdDnnZELfVhhXsZfv8Yav00mHY?OxyqeTs

-1-2-8	5-6-9	10-8-0	15-0-0	21-0-0	27-0-0	33-0-0	39-0-0	46-0-0	49-9-7	54-0-0	55-2-8
1-2-8	5-6-9	5-1-7	4-4-0	6-0-0	6-0-0	6-0-0	6-0-0	7-0-0	3-9-7	4-2-9	1-2-8

Scale = 1:103.6



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15	TC 0.92	Vert(LL) -0.20 S-T >999 240	MT20 244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.89	Vert(CT) -0.33 S-T >999 180	MT20HS 187/143	
BCLL 10.0	Rep Stress Incr YES	WB 0.98	Horz(CT) 0.08 P n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MS			Weight: 307 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* A-D,K-N: 2x4 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-3-1 max.): F-J, E-W, L-P. Except: 2-6-0 oc bracing: O-P 2-9-0 oc bracing: W-X
BOT CHORD 2x4 SP No.2 *Except* M-O: 2x4 SP 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 4-6-8 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt F-X, G-V, I-Q, J-O

REACTIONS. (size) W=0-3-8, P=0-3-8
 Max Horz W=166(LC 12)
 Max Uplift W=-723(LC 8), P=-609(LC 9)
 Max Grav W=2729(LC 39), P=2343(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-480/1185, C-E=-849/2267, E-F=-780/2219, F-G=-634/563, G-H=-2030/294, H-I=-2252/286, I-J=-1290/174, J-L=-575/1635, L-M=-674/1662, W-X=-2684/814, E-X=-504/156, O-P=-2237/671, L-O=-886/297
 BOT CHORD B-Y=-1030/505, X-Y=-1030/505, T-V=-77/1830, S-T=-126/2322, Q-S=-151/2164, M-O=-1435/699
 WEBS C-Y=-112/252, C-X=-1126/455, V-X=-499/707, F-X=-2451/734, F-V=-210/1296, G-V=-1722/313, G-T=-54/719, H-T=-529/179, I-S=0/353, I-Q=-1259/226, J-Q=-72/904, O-Q=-59/1306, J-O=-2425/573

- 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) -1-2-8 to 4-2-5, Interior(1) 4-2-5 to 15-0-0, Exterior(2E) 15-0-0 to 22-7-10, Interior(1) 22-7-10 to 39-0-0, Exterior(2E) 39-0-0 to 46-7-10, Interior(1) 46-7-10 to 49-9-11, Exterior(2E) 49-9-11 to 55-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 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 be uplift at joint(s) except (jt=lb)
 - 9) This truss is designed in accordance with the 2018 International Building Code (IBC) and referenced standard ANSI/TPI 1.
 - 10) Graphical purlin representation does not depict the size p and/or bottom chord.

CONTRACTOR TO INSTALL (2) H2.5A CONNECTORS AT EACH LOCATION



Job 251264	Truss C1	Truss Type MONOPITCH SUPPORTED	Qty 1	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	I75433615
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:44 2025 Page 1

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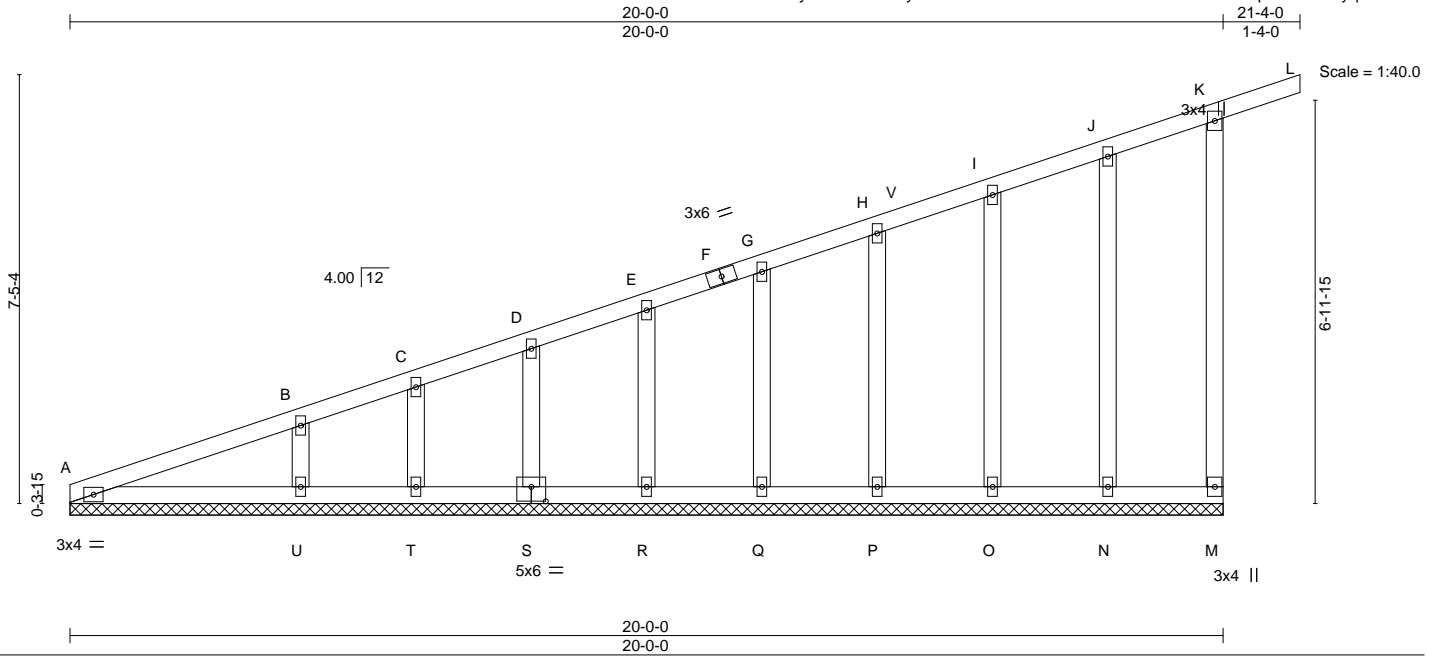


Plate Offsets (X, Y)-- [S:0-3-0,0-3-0]							
LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL 1.15	2-0-0	TC 0.80	Vert(LL) -0.00	L	n/r	120
(Roof Snow=20.0)	Lumber DOL 1.15		BC 0.22	Vert(CT) -0.01	L	n/r	90
TCDL 10.0	Rep Stress Incr YES		WB 0.11	Horz(CT) 0.00	M	n/a	n/a
BCLL 10.0	Code IBC2018/TPI2014		Matrix-S				
BCDL 10.0							
							PLATES MT20
							GRIP 244/190
							Weight: 114 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 20-0-0.
 (lb) - Max Horz A=302(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) M, R, S, T, U, Q, P, O, N
 Max Grav All reactions 250 lb or less at joint(s) A, R, S, T, Q, P, O, N except M=270(LC 19), U=348(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-254/234, K-M=-257/170

- 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) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 18-4-0, Corner(3E) 18-4-0 to 21-4-0 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=20.0 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) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Gable studs spaced at 2-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) M, R, S, T, U, Q, P, O, N.
 - 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) A.
 - 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

CONTRACTOR TO PROVIDE OUT OF PLANE BRACING, RE: 1/S061

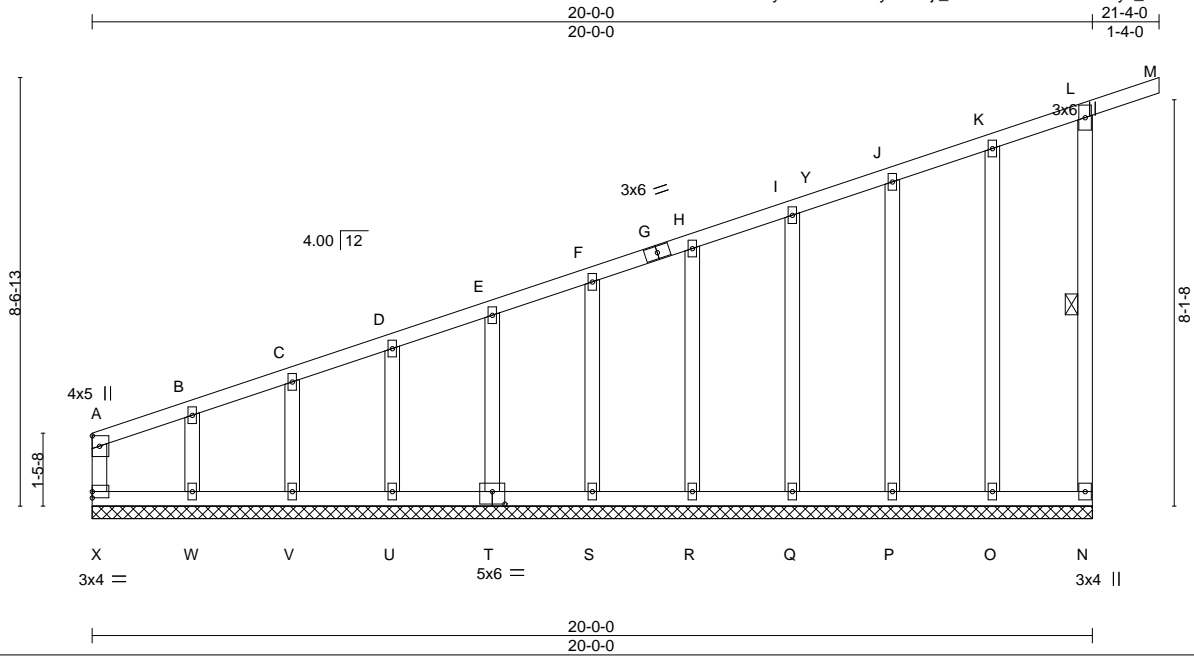


August 7, 2025

Job 251264	Truss C1A	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	I75433616
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:45 2025 Page 1
ID:AvGMVLCC0iAyfYGFMu2TJvy7NIA-jl_RKuo8m?tx14idS4X9nyx_bixk20KJEB16TqyqeTq



Scale = 1:46.1

Plate Offsets (X,Y)-- [T:0-3-0,0-3-0]							
LOADING (psf)	SPACING-	CSI.	DEFL.			PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2018/TPI2014	TC 0.63 BC 0.33 WB 0.16 Matrix-R	in (loc) l/def L/d Vert(LL) 0.00 L n/r 120 Vert(CT) 0.00 L n/r 90 Horz(CT) 0.00 N n/a n/a			MT20	244/190
TCDL 10.0							
BCLL 10.0							
BCDL 10.0						Weight: 133 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* L-N: 2x4 SP No.2	WEBS 1 Row at midpt L-N
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz X=342(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) S, T, U, R, Q, P, O except N=102(LC 9), W=-279(LC 9)
Max Grav All reactions 250 lb or less at joint(s) S, T, U, V, W, R, Q, P, O except X=298(LC 9), N=270(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-297/273, L-N=-257/189

- 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) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 18-4-0, Corner(3E) 18-4-0 to 21-4-0 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 designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pf=20.0 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) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 9) Gable studs spaced at 2-0-0 oc.
 - 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) S, T, U, R, Q, P, O except (jt=lb) N=102, W=279.
 - 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

CONTRACTOR TO PROVIDE
OUT OF PLANE BRACING, RE:
1/S061



August 7, 2025

Job 251264	Truss C2	Truss Type Monopitch	Qty 10	Ply 1	REUNION AT BLACKWELL	175433617
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:45 2025 Page 1

ID:AvGMvLCC0iAyfYGFMu2TJvy7NIA-jl_RKuo8m?tx14idS4X9nyxy7isK2t9JEB16TqqqTq

Job Reference (optional)

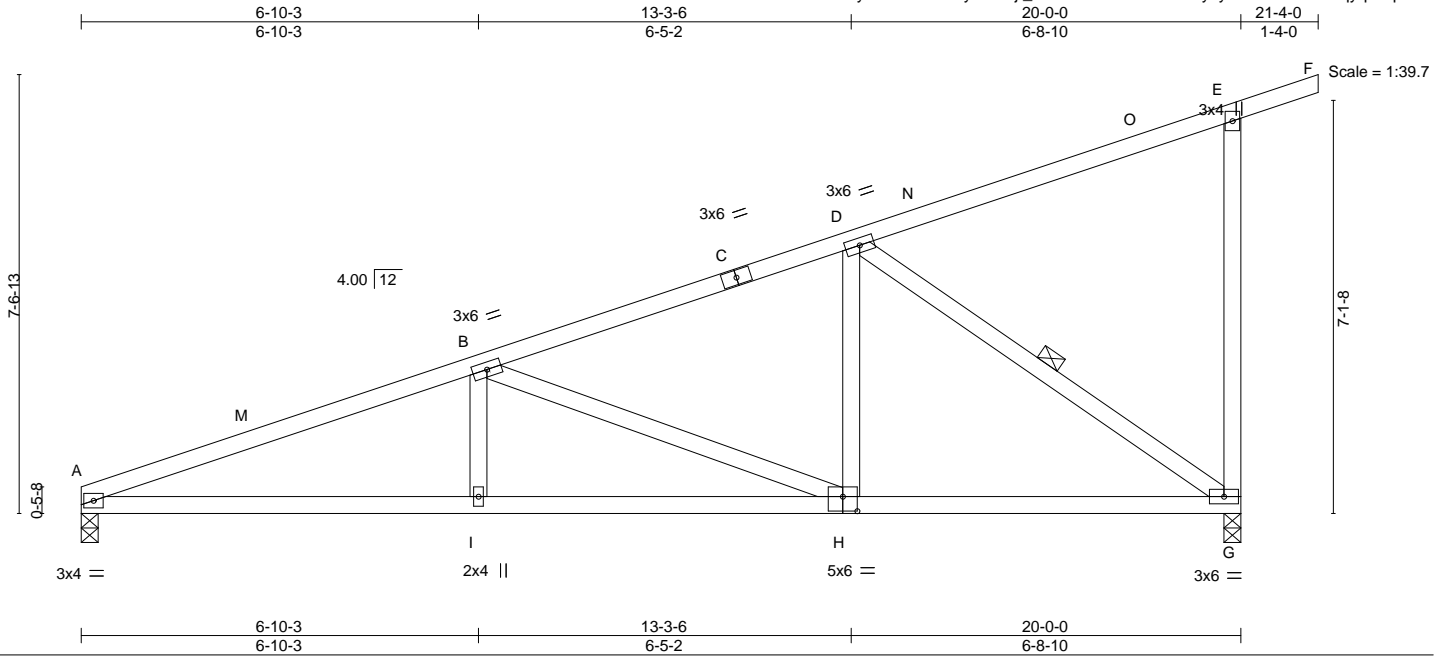


Plate Offsets (X, Y)--	[H:0-3-0,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15	TC 0.73	Vert(LL) -0.09	I-L	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.17	I-L	>999	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.74	Horz(CT) 0.05	G	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MS						
							Weight: 104 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-9-10 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt D-G

REACTIONS. (size) A=0-3-8, G=0-3-8
 Max Horz A=303(LC 9)
 Max Uplift A=-120(LC 8), G=-210(LC 12)
 Max Grav A=856(LC 3), G=1073(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-1830/264, B-D=-1038/164, E-G=-405/160
 BOT CHORD A-I=-323/1690, H-I=-323/1690, G-H=-133/923
 WEBS B-I=0/253, B-H=-822/204, D-H=0/546, D-G=-1103/236

- 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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 18-4-0, Exterior(2E) 18-4-0 to 21-4-0 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=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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) except (jt=lb) A=120, G=210.
 - 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



August 7, 2025

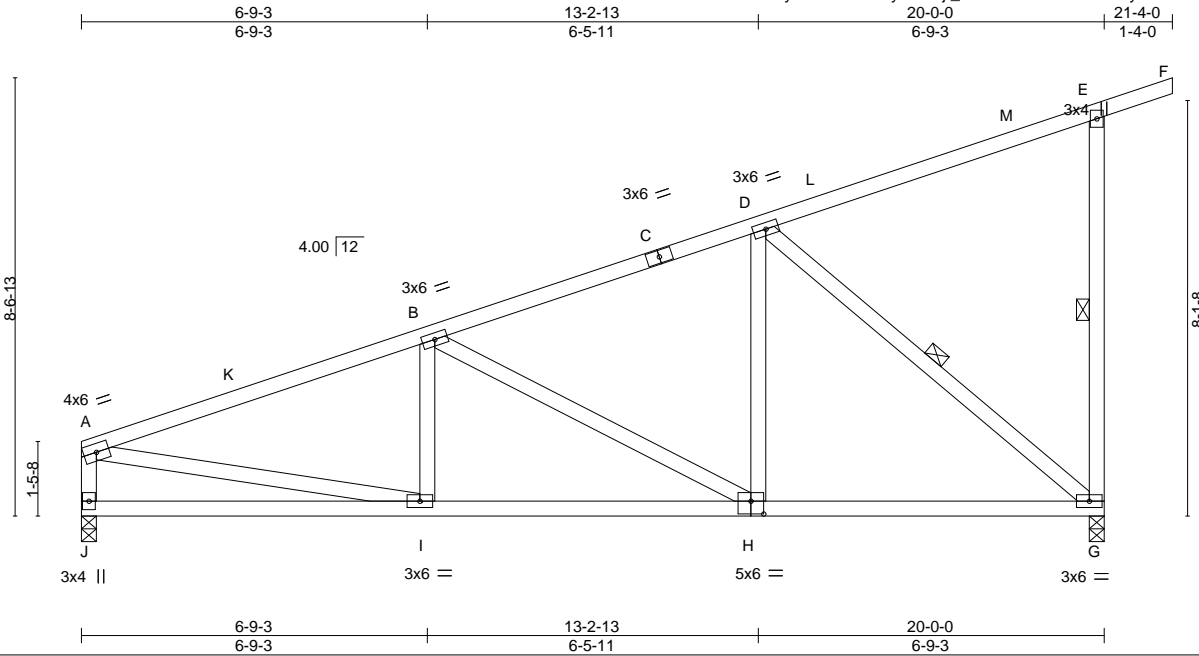
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 251264	Truss C2A	Truss Type Monopitch	Qty 10	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	I75433618
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:45 2025 Page 1

ID:AvGMvLCC0iAyfYGFMu2Tjvy7NIA-jl_RKuo8m?tx14idS4X9nyxvkiu02xtJEB16TqyqEQt



Scale = 1:45.1

Plate Offsets (X,Y)-- [H:0-3-0,0-3-0]					
LOADING (psf)	SPACING-	CSI.	DEFL.		PLATES
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2018/TPI2014	TC 0.94 BC 0.57 WB 0.51 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.06 G-H >999 240 Vert(CT) -0.13 G-H >999 180 Horz(CT) 0.02 G n/a n/a	MT20	GRIP 244/190
TCDL 10.0					Weight: 121 lb FT = 20%
BCLL 10.0					
BCDL 10.0					

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-3-9 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt E-G, D-G


REACTIONS. (size) G=0-3-8, J=0-3-8
 Max Horz J=342(LC 9)
 Max Uplift G=-215(LC 12), J=-113(LC 8)
 Max Grav G=1065(LC 19), J=850(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-1299/192, B-D=-856/158, E-G=-406/160, A-J=-740/163
 BOT CHORD I-J=-331/415, H-I=-234/1186, G-H=-124/755
 WEBS B-H=-495/153, D-H=0/484, D-G=-967/222, A-I=-112/1054

- 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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 18-4-0, Exterior(2E) 18-4-0 to 21-4-0 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=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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) except (jt=lb) G=215, J=113.
 - 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



August 7, 2025

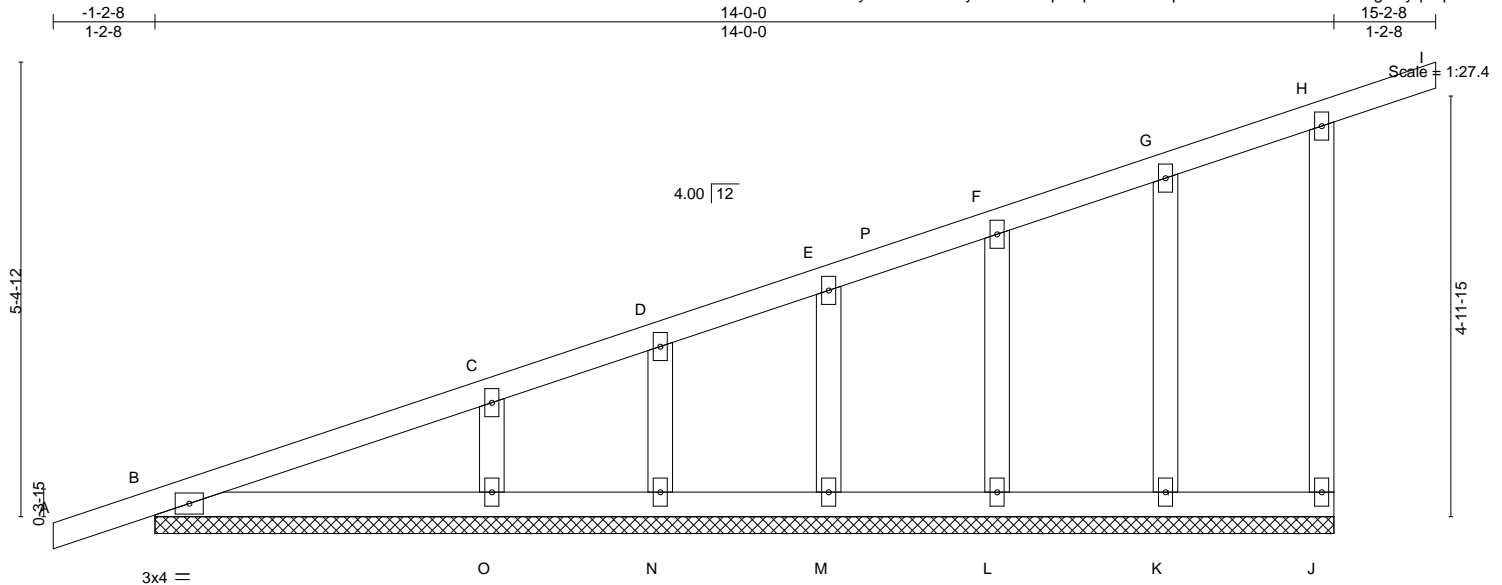
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 251264	Truss D1	Truss Type GABLE	Qty 2	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	175433619
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:46 2025 Page 1

ID:AvGMVLC00iAyfYGFmu2TJvy7NIA-BUYpXEpXJ?oeEHp0n3PJ9UCI6LNuVvSSFmg?GyqeTp
14-0-0 14-0-0 15-2-8 1-2-8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2018/TPI2014	TC 0.44 BC 0.12 WB 0.07 Matrix-S	in (loc) l/defl L/d Vert(LL) -0.00 H n/r 120 Vert(CT) -0.00 I n/r 90 Horz(CT) 0.00 J n/a n/a	MT20	244/190
TCDL 10.0				Weight: 71 lb	FT = 20%
BCLL 10.0					
BCDL 10.0					

LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 14-0-0.
(lb) - Max Horz B=223(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) J, B, K, L, M, N, O
Max Grav All reactions 250 lb or less at joint(s) J, B, K, L, M, N except O=328(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=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 1-2-8 to 1-9-8, Exterior(2N) 1-9-8 to 12-0-0, Corner(3E) 12-0-0 to 15-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; ~~Lumber DOL=1.33 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=20.0 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) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) J, B, K, L, M, N, O.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**CONTRACTOR TO PROVIDE
OUT OF PLANE BRACING, RE:
1/S061**



August 7, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

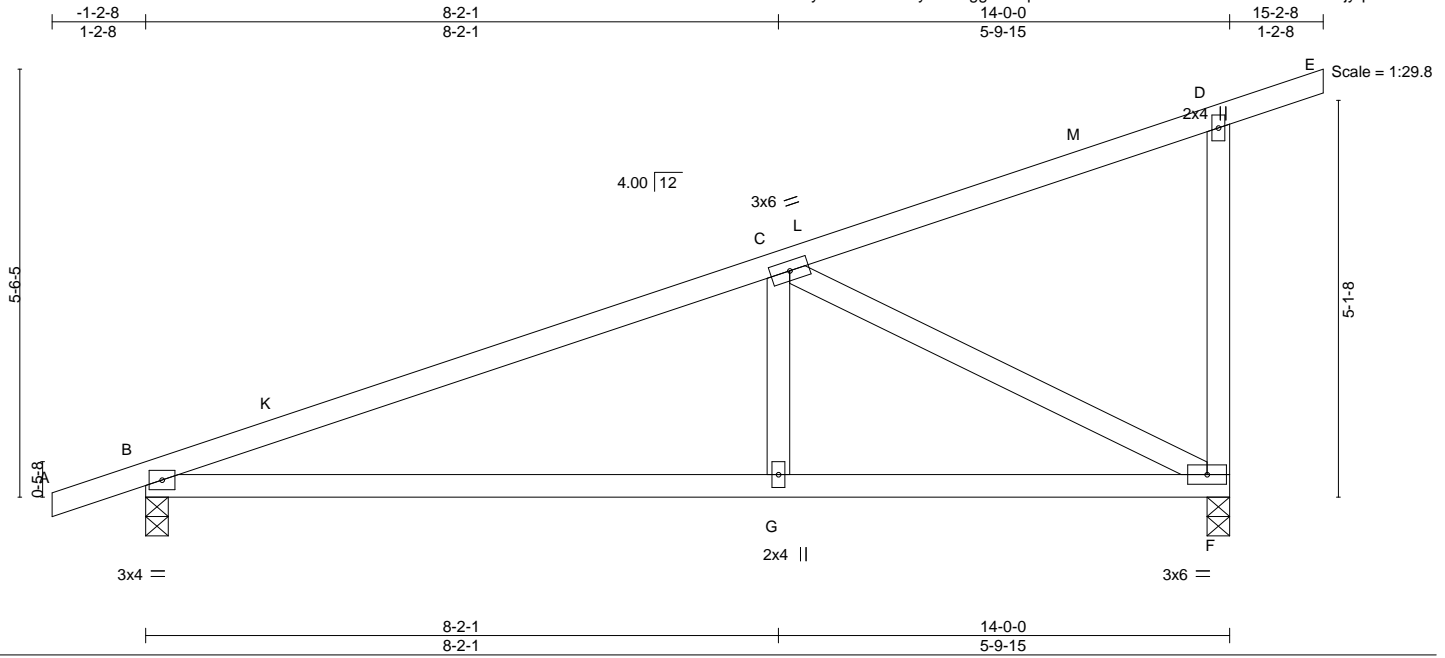
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 251264	Truss D2	Truss Type Monopitch	Qty 9	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	175433621
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:47 2025 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.50 BC 0.71 WB 0.77 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.12 G-J >999 240 Vert(CT) -0.25 G-J >656 180 Horz(CT) 0.02 F n/a n/a	MT20	244/190
TCDL 10.0	Rep Stress Incr YES			Weight: 66 lb	FT = 20%
BCLL 10.0	Code IBC2018/TPI2014				
BCDL 10.0					

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	


REACTIONS. (size) B=0-3-8, F=0-3-8
 Max Horz B=225(LC 9)
 Max Uplift B=-132(LC 8), F=-154(LC 12)
 Max Grav B=668(LC 3), F=799(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-998/140, D-F=-331/150
 BOT CHORD B-G=-145/898, F-G=-145/898
 WEBS C-G=0/323, C-F=-995/212

- 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) -1-2-8 to 1-9-8, Interior(1) 1-9-8 to 12-2-8, Exterior(2E) 12-2-8 to 15-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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) except (jt=lb) B=132, F=154.
 - 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



August 7, 2025

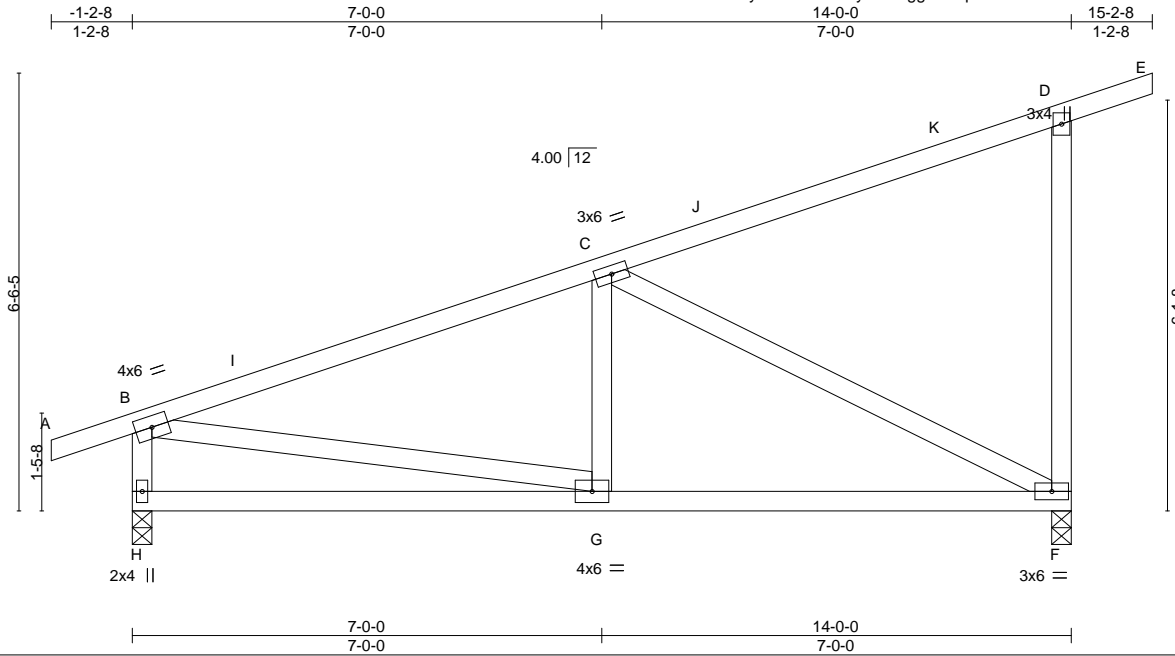
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 251264	Truss D2A	Truss Type Monopitch	Qty 9	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	I75433622
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Heartland Truss, LLC., Plattsburg, MO - 64477,

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ID:AvGMvLCC0iAyfYGFMu2TJvy7NIA-gg5BlaqPld7fGOs?aVaesN0lbWalWIXchvWDXjyqeTo



Scale = 1:34.4

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.73 BC 0.52 WB 0.88 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.05 F-G >999 240 Vert(CT) -0.11 F-G >999 180 Horz(CT) 0.01 F n/a n/a	MT20	244/190
TCDL 10.0	Rep Stress Incr YES				
BCLL 10.0	Code IBC2018/TPI2014				
BCDL 10.0				Weight: 82 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	


REACTIONS. (size) H=0-3-8, F=0-3-8
 Max Horz H=265(LC 9)
 Max Uplift H=-130(LC 8), F=-160(LC 12)
 Max Grav H=670(LC 3), F=793(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-807/122, D-F=-392/169, B-H=-594/216
 BOT CHORD G-H=-262/368, F-G=-119/720
 WEBS C-F=-779/185, B-G=-11/590

- 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) -1-2-8 to 1-9-8, Interior(1) 1-9-8 to 12-2-8, Exterior(2E) 12-2-8 to 15-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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) except (jt=lb) H=130, F=160.
 - 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



August 7, 2025

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 251264	Truss D3	Truss Type Jack-Closed	Qty 5	Ply 1	REUNION AT BLACKWELL	175433623
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:48 2025 Page 1
ID:AvGMvLCC0iAyfYGFMu2TJvy7NIA-8sfZywr13wFWuYRC8C5tOaZV9wuQFDelwZfM39yqeTn

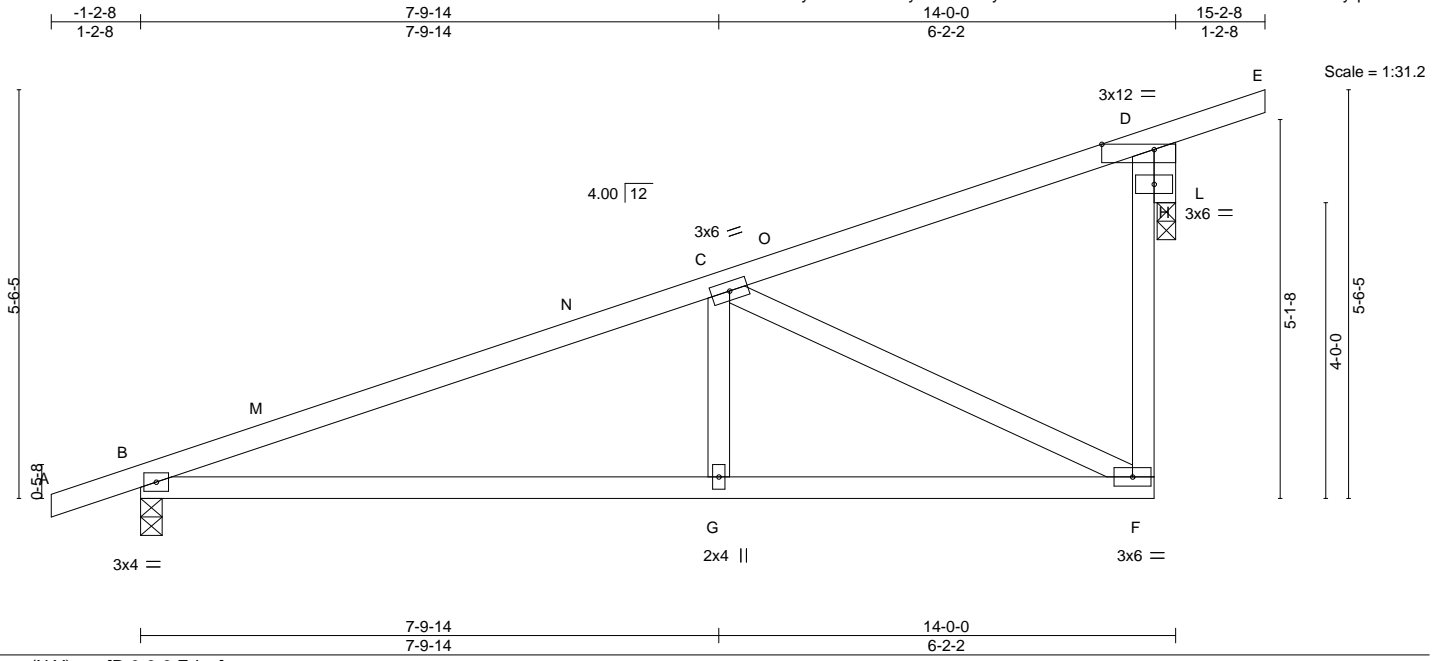


Plate Offsets (X, Y)-- [D:0-8-8,Edge]	7-9-14 7-9-14	14-0-0 6-2-2			
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2018/TPI2014	TC 0.61 BC 0.66 WB 0.76 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.11 G-K >999 240 Vert(CT) -0.21 G-K >777 180 Horz(CT) 0.05 L n/a n/a	MT20	244/190
TCDL 10.0					
BCLL 10.0					
BCDL 10.0				Weight: 67 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* D-F: 2x4 SP No.2	
OTHERS 2x4 SP No.2	


REACTIONS. (size) B=0-3-8, L=0-3-0
Max Horz B=211(LC 9)
Max Uplift B=-126(LC 8), L=-159(LC 8)
Max Grav B=669(LC 3), L=792(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1034/116, F-H=-57/502, D-H=-57/502
BOT CHORD B-G=-148/934, F-G=-148/934
WEBS C-G=0/308, C-F=-978/203, D-L=-851/221

- 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) -1-2-8 to 1-9-8, Interior(1) 1-9-8 to 15-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) Bearing at joint(s) L considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=126, L=159.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



August 7, 2025

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 251264	Truss D3A	Truss Type Jack-Closed	Qty 5	Ply 1	REUNION AT BLACKWELL	I75433624
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Heartland Truss, LLC., Plattsburg, MO - 64477,

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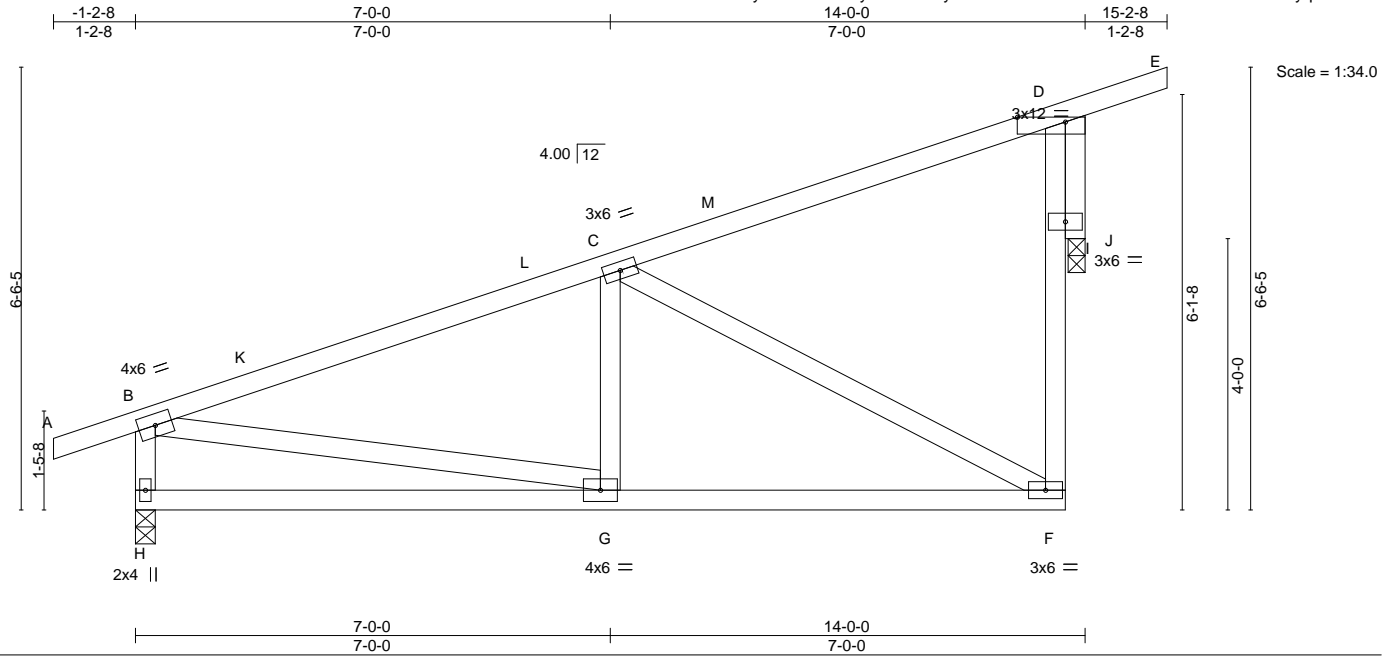


Plate Offsets (X, Y)-- [D:0-8-8,Edge]						
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP	
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2018/TPI2014	TC 0.65 BC 0.48 WB 0.77 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.05 G-H >999 240 Vert(CT) -0.10 G-H >999 180 Horz(CT) 0.09 J n/a n/a	MT20	244/190	
TCDL 10.0						Weight: 84 lb FT = 20%
BCLL 10.0						
BCDL 10.0						

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* D-F: 2x4 SP No.2	
OTHERS 2x4 SP No.2	

REACTIONS. (size) H=0-3-8, J=0-3-0
 Max Horz H=236(LC 9)
 Max Uplift H=-116(LC 8), J=-173(LC 8)
 Max Grav H=671(LC 3), J=786(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-H=-593/192, B-C=-801/70, F-I=-50/448, D-I=-50/448
 BOT CHORD G-H=-234/317, F-G=-119/712
 WEBS B-G=0/573, C-F=-734/176, D-J=-803/224

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) -1-2-8 to 1-9-8, Interior(1) 1-9-8 to 15-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) J considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) H=116, J=173.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



August 7, 2025

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 251264	Truss D4	Truss Type Jack-Closed	Qty 13	Ply 1	REUNION AT BLACKWELL	I75433625
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Heartland Truss, LLC., Plattsburg, MO - 64477,

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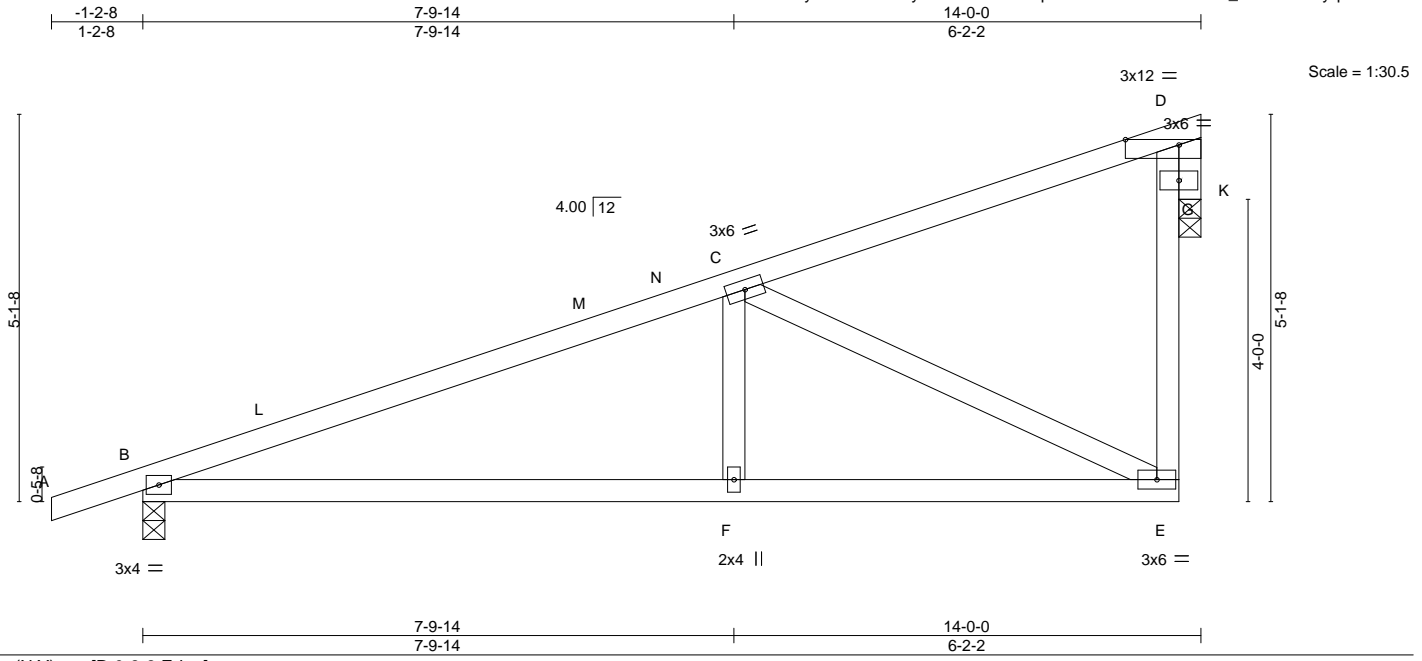


Plate Offsets (X,Y)-- [D:0-8-8,Edge]		7-9-14 7-9-14		14-0-0 6-2-2	
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2018/TPI2014	TC 0.65 BC 0.66 WB 0.80 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.11 F-J >999 240 Vert(CT) -0.21 F-J >777 180 Horz(CT) 0.05 K n/a n/a	MT20	244/190
TCDL 10.0				Weight: 65 lb	FT = 20%
BCLL 10.0					
BCDL 10.0					

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* D-E: 2x4 SP No.2	
OTHERS 2x4 SP No.2	


REACTIONS. (size) B=0-3-8, K=0-3-8
 Max Horz B=190(LC 9)
 Max Uplift B=-134(LC 8), K=-117(LC 8)
 Max Grav B=688(LC 3), K=669(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1091/162, E-G=-60/527, D-G=-60/527
 BOT CHORD B-F=-152/989, E-F=-152/989
 WEBS C-F=0/308, C-E=-1034/212, D-K=-727/131

- 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) -1-2-8 to 1-9-8, Interior(1) 1-9-8 to 13-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) Bearing at joint(s) K considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=134, K=117.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



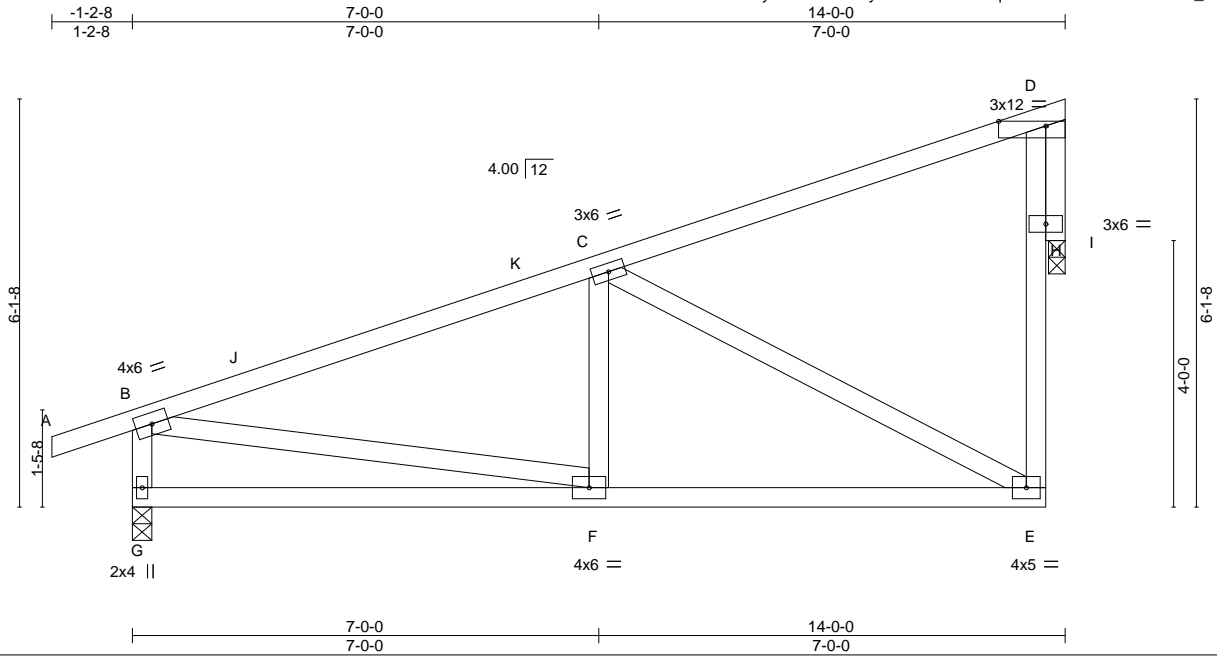
August 7, 2025

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 251264	Truss D4A	Truss Type Jack-Closed	Qty 13	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	175433626
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:49 2025 Page 1
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Scale = 1:34.6

Plate Offsets (X, Y)-- [D:0-8-8,Edge]							
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP		
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2018/TPI2014	TC 0.76 BC 0.49 WB 0.83 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.05 F-G >999 240 Vert(CT) -0.11 F-G >999 180 Horz(CT) 0.09 I n/a n/a	MT20	244/190		
TCDL 10.0							
BCLL 10.0							
BCDL 10.0							
						Weight: 82 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-9-15 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* D-E: 2x4 SP No.2	
OTHERS 2x4 SP No.2	


REACTIONS. (size) G=0-3-8, l=0-3-0
 Max Horz G=214(LC 9)
 Max Uplift G=-126(LC 8), l=-129(LC 8)
 Max Grav G=692(LC 3), l=661(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-G=-619/209, B-C=-850/110, E-H=-53/474, D-H=-53/474
 BOT CHORD F-G=-212/323, E-F=-122/761
 WEBS B-F=-3/631, C-E=-789/183, D-l=-678/133

- 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) -1-2-8 to 1-9-8, Interior(1) 1-9-8 to 13-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) Bearing at joint(s) l considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) G=126, l=129.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



August 7, 2025

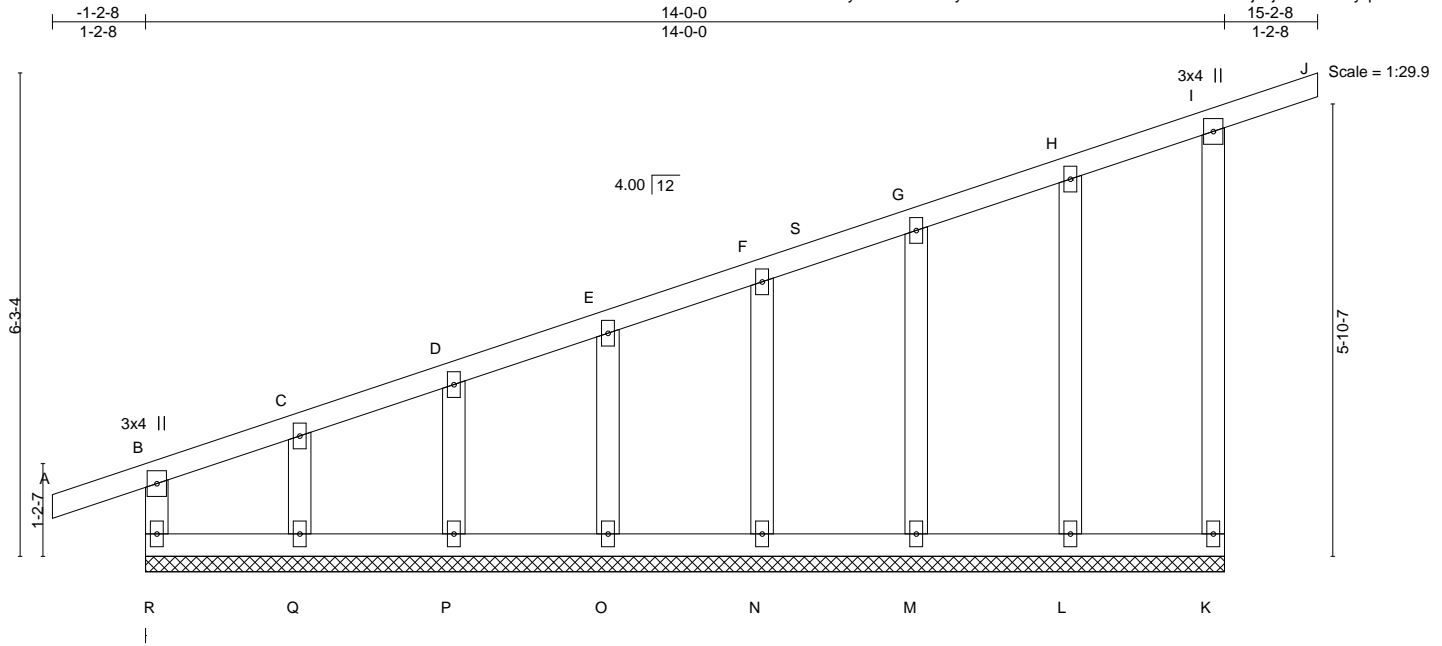
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 251264	Truss E1	Truss Type GABLE	Qty 1	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	175433627
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:50 2025 Page 1

ID:AvGMvLCC0iAyfYGFMu2TJvy7NIA-4FnJNbsHbYVD7sbaFd7LU?erwjiOjHv2Nkt81yqeTI



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.59 BC 0.18 WB 0.07 Matrix-R	in (loc) l/defl L/d Vert(LL) 0.00 I n/r 120 Vert(CT) -0.00 I n/r 90 Horz(CT) 0.00 K n/a n/a	MT20	244/190
TCDL 10.0	Rep Stress Incr YES			Weight: 82 lb	FT = 20%
BCLL 10.0	Code IBC2018/TPI2014				
BCDL 10.0					

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 14-0-0.
 (lb) - Max Horz R=256(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) K, L, M, N, O, P except Q=163(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) R, K, L, M, N, O, P, Q

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=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-2-8 to 2-0-0, Exterior(2N) 2-0-0 to 12-0-0, Corner(3E) 12-0-0 to 15-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; ~~Lumber DOL=1.33 plate grip DOL=1.33~~
 - 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.
 - TCLL: ASCE 7-16; Pf=20.0 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
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - 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) K, L, M, N, O, P except (jt=lb) Q=163.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

CONTRACTOR TO PROVIDE OUT OF PLANE BRACING, RE: 1/S061



August 7, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

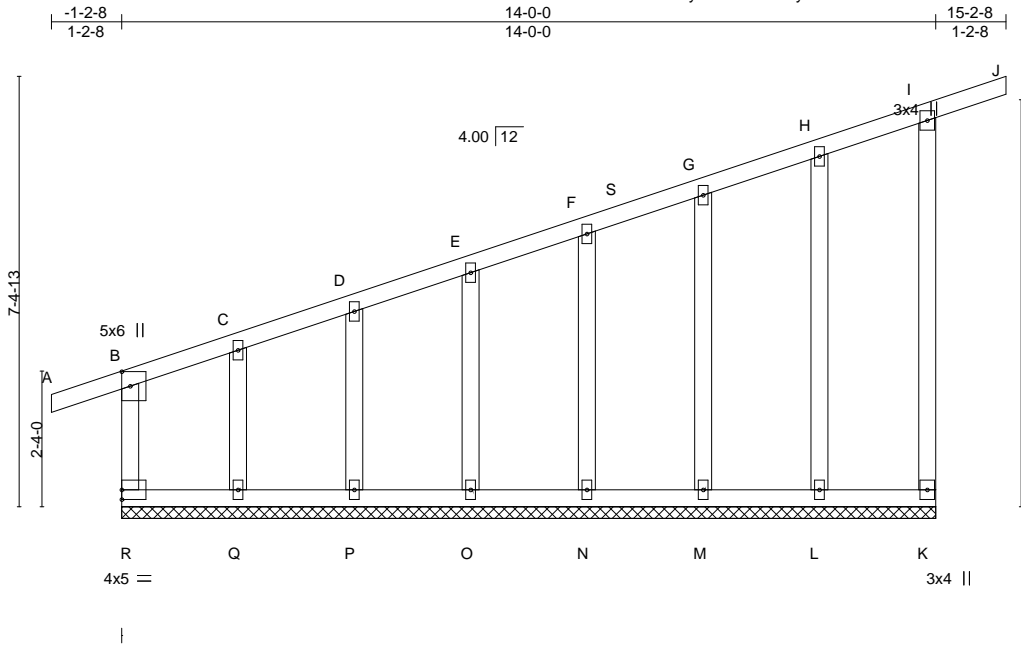
MiTek®
 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 251264	Truss E1A	Truss Type GABLE	Qty 2	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	I75433628
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:50 2025 Page 1

ID:AvGMVLLCC0iAyfYGFMu2TJvy7NIA-4FnJNbsHbYVD7sbaFd7LU?el7jd6jHM2Nkt81yqeTI



Scale = 1:39.6

Plate Offsets (X, Y)-- [B:0-3-0,0-1-12]	
LOADING (psf)	SPACING- 2-0-0
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15
TCDL 10.0	Lumber DOL 1.15
BCLL 10.0	Rep Stress Incr YES
BCDL 10.0	Code IBC2018/TPI2014
	CSI.
	TC 0.96
	BC 0.45
	WB 0.11
	Matrix-R
	DEFL. in (loc) l/defl L/d
	Vert(LL) 0.00 I n/r 120
	Vert(CT) 0.00 I n/r 90
	Horz(CT) 0.00 K n/a n/a
	PLATES MT20
	GRIP 244/190
	Weight: 96 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 14-0-0.
 (lb) - Max Horz R=297(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) O, N, M except K=119(LC 9), Q=372(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) K, Q, P, O, N, M, L except R=349(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS C-Q=272/229

- 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) -1-2-8 to 2-0-0, Exterior(2N) 2-0-0 to 12-0-0, Corner(3E) 12-0-0 to 15-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: ~~Lumber DOL=1.33~~ 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=20.0 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) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 9) Gable studs spaced at 2-0-0 oc.
 - 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) O, N, M except (jt=lb) K=119, Q=372.
 - 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

CONTRACTOR TO PROVIDE OUT OF PLANE BRACING, RE: 1/S061

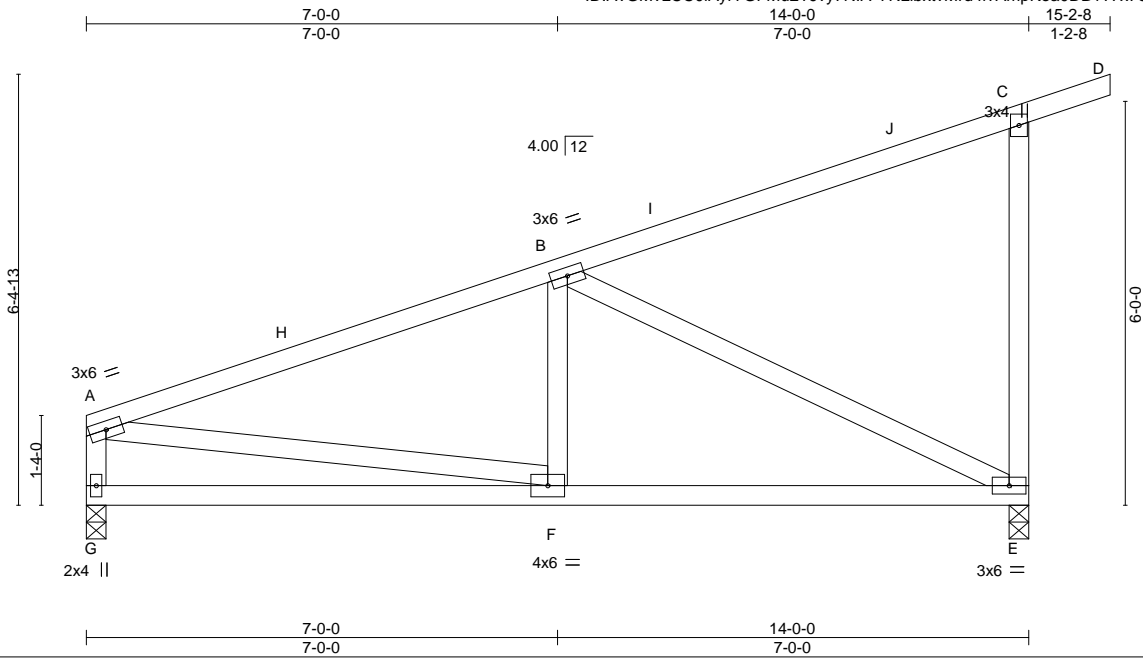


August 7, 2025

Job 251264	Truss E2	Truss Type Monopitch	Qty 3	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	175433629
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:51 2025 Page 1
ID:AvGMvLCC0iAyfYGFMu2TJvy7NIA-YRLibxtvMrd4I?AmpKea0DB1?7x7SX4BcXURgUyqkTk



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15	TC 0.57	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.53	Vert(LL) -0.05 E-F >999 240		
BCLL 10.0	Rep Stress Incr YES	WB 0.91	Vert(CT) -0.11 E-F >999 180		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MS	Horz(CT) 0.01 E n/a n/a		
				Weight: 79 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	


REACTIONS. (size) G=0-3-8, E=0-3-8
 Max Horz G=251(LC 9)
 Max Uplift G=-75(LC 8), E=-160(LC 12)
 Max Grav G=599(LC 3), E=797(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-844/135, C-E=-388/167, A-G=-508/148
 BOT CHORD F-G=-242/348, E-F=-125/757
 WEBS B-F=0/252, B-E=-816/195, A-F=-37/624

- 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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-2-8, Exterior(2E) 12-2-8 to 15-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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) G except (jt=E) E=160.
 - 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



August 7, 2025

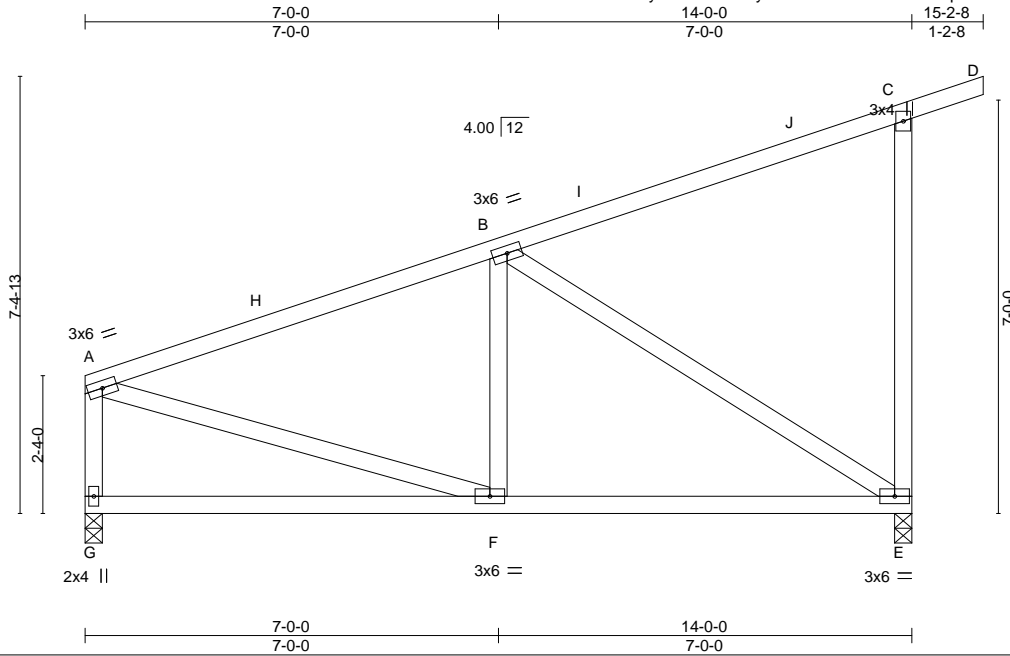
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 251264	Truss E2A	Truss Type Monopitch	Qty 6	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	175433630
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:51 2025 Page 1

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Scale = 1:39.0

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.76 BC 0.50 WB 0.85 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.05 E-F >999 240 Vert(CT) -0.11 E-F >999 180 Horz(CT) 0.01 E n/a n/a	MT20	244/190
TCDL 10.0	Rep Stress Incr YES				
BCLL 10.0	Code IBC2018/TPI2014				
BCDL 10.0				Weight: 85 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	


REACTIONS. (size) G=0-3-8, E=0-3-8
 Max Horz G=288(LC 9)
 Max Uplift G=-72(LC 8), E=-164(LC 12)
 Max Grav G=599(LC 3), E=797(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-664/115, C-E=-388/164, A-G=-510/151
 BOT CHORD F-G=-269/340, E-F=-136/588
 WEBS B-E=-674/171, A-F=-55/548

- 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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-2-8, Exterior(2E) 12-2-8 to 15-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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) G except (jt=E) E=164.
 - 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



August 7, 2025

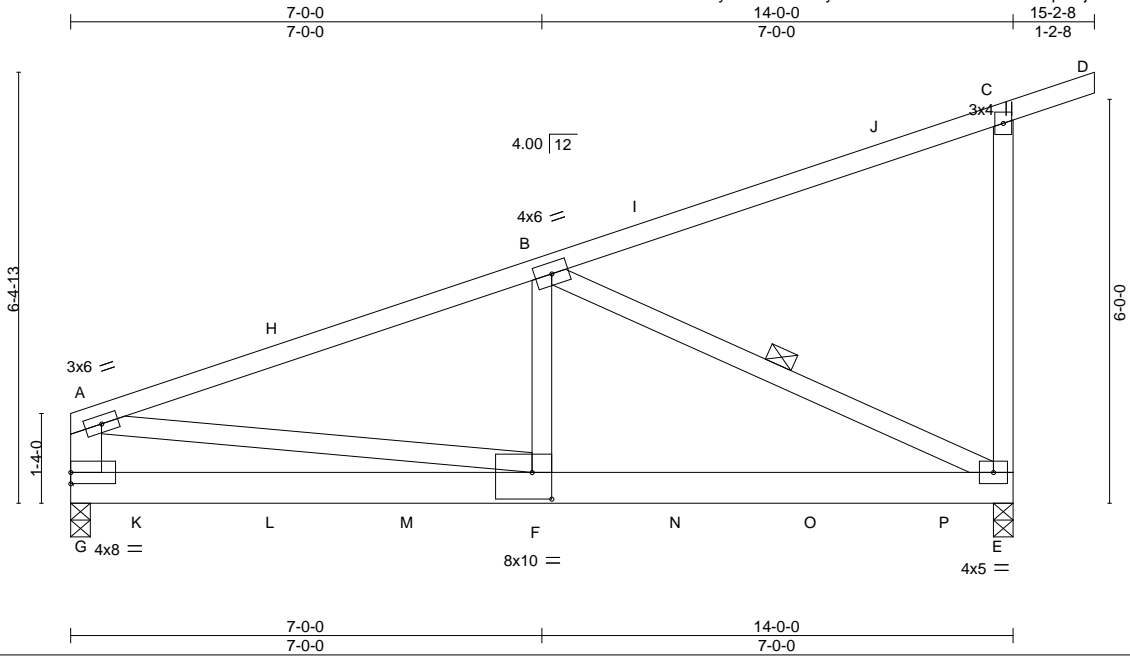
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 251264	Truss E3	Truss Type Monopitch Girder	Qty 1	Ply 2	REUNION AT BLACKWELL Job Reference (optional)	175433631
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:52 2025 Page 1

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Scale = 1:34.2

Plate Offsets (X,Y)-- [F:0-3-8,0-4-12]						
LOADING (psf)	SPACING-	CSI.	DEFL.		PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.57	in (loc) l/defl L/d	MT20	244/190	
(Roof Snow=20.0)	Lumber DOL 1.15	BC 0.62	Vert(LL) -0.11 E-F >999 240			
TCDL 10.0	Rep Stress Incr NO	WB 0.70	Vert(CT) -0.19 E-F >848 180			
BCLL 10.0	Code IBC2018/TPI2014	Matrix-MS	Horz(CT) 0.01 E n/a n/a			
BCDL 10.0				Weight: 182 lb	FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* A-G: 2x6 SP No.1	WEBS 1 Row at midpt B-E

REACTIONS. (size) G=0-3-8, E=0-3-8
 Max Horz G=248(LC 9)
 Max Uplift G=634(LC 8), E=720(LC 12)
 Max Grav G=3642(LC 19), E=3879(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-4751/852, C-E=-393/169, A-G=-2175/452
 BOT CHORD F-G=-408/1132, E-F=-804/4451
 WEBS B-F=-479/3200, B-E=-4859/942, A-F=-536/3365

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 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) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 12-2-8, Exterior(2E) 12-2-8 to 15-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pf=20.0 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
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live loads.
 - Provide mechanical connection (by others) of truss to building frame to support concentrated load(s) 881 lb down and 167 lb up at 1-0-12, 880 lb down and 168 lb up at 3-0-12, 880 lb down and 168 lb up at 5-0-12, 880 lb down and 168 lb up at 7-0-12, 880 lb down and 168 lb up at 9-0-12, and 880 lb down and 168 lb up at 11-0-12, and 882 lb down and 166 lb up at 13-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

CONTRACTOR TO INSTALL (2) H2.5A CONNECTORS AT EACH LOCATION



August 7, 2025

LOAD CASE(S) Standard
 Continued on page 2

Job 251264	Truss E3	Truss Type Monopitch Girder	Qty 1	Ply 2	REUNION AT BLACKWELL Job Reference (optional)	175433631
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:52 2025 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: A-C=-60, C-D=-60, E-G=-20

Concentrated Loads (lb)

Vert: F=-880(B) K=-881(B) L=-880(B) M=-880(B) N=-880(B) O=-880(B) P=-882(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job 251264	Truss E3A	Truss Type Monopitch Girder	Qty 2	Ply 2	REUNION AT BLACKWELL Job Reference (optional)	175433632
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:52 2025 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: A-C=-60, C-D=-60, E-G=-20

Concentrated Loads (lb)

Vert: F=-910(F) K=-910(F) L=-910(F) M=-910(F) N=-910(F) O=-910(F) P=-912(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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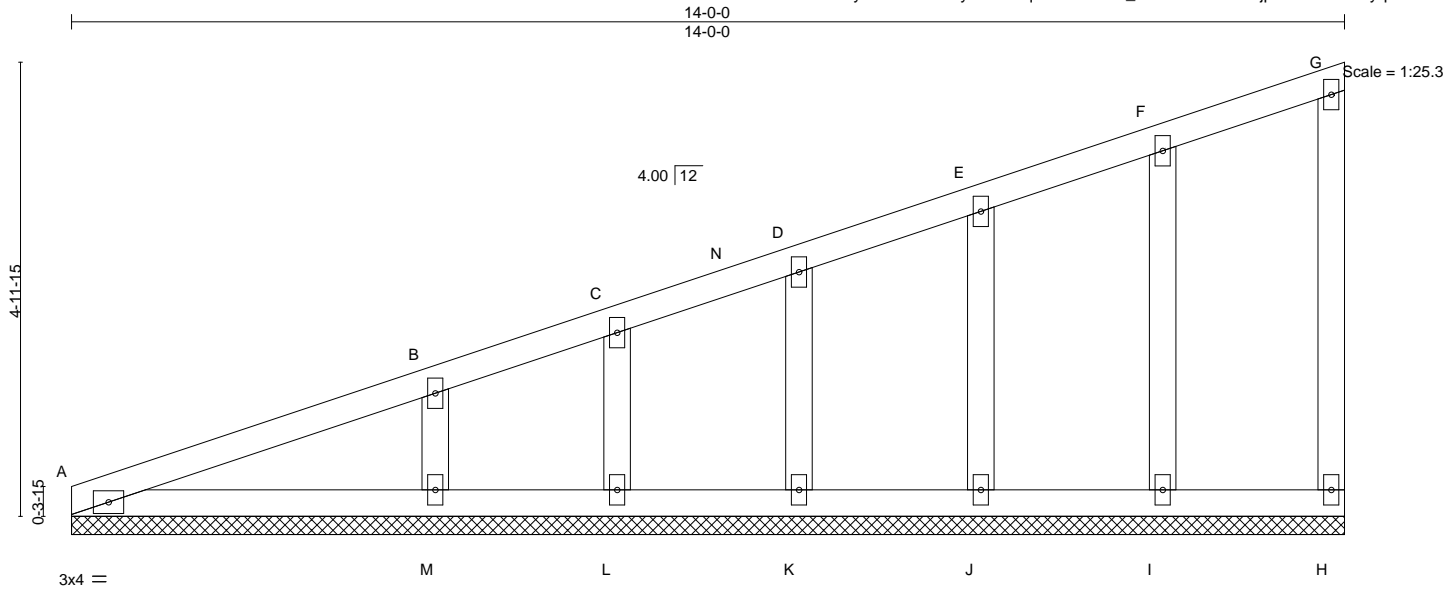
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 251264	Truss F1	Truss Type GABLE	Qty 1	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	175433633
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:53 2025 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0	TC 0.38	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) n/a - n/a 999		
BCLL 10.0	Lumber DOL 1.15	WB 0.08	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 H n/a n/a		
	Code IBC2018/TPI2014			Weight: 68 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 14-0-0.
 (lb) - Max Horz A=197(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) H, I, J, K, L, M
 Max Grav All reactions 250 lb or less at joint(s) A, H, I, J, K, L except M=348(LC 2)

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) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 10-10-4, Corner(3E) 10-10-4 to 13-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 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=20.0 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) H, I, J, K, L, M.
 - 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

CONTRACTOR TO PROVIDE
OUT OF PLANE BRACING, RE:
1/S061



August 7, 2025

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 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

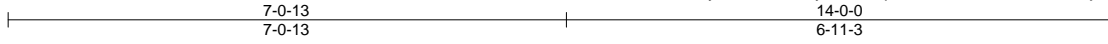
MiTek®
 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 251264	Truss F2	Truss Type Monopitch	Qty 3	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	I75433634
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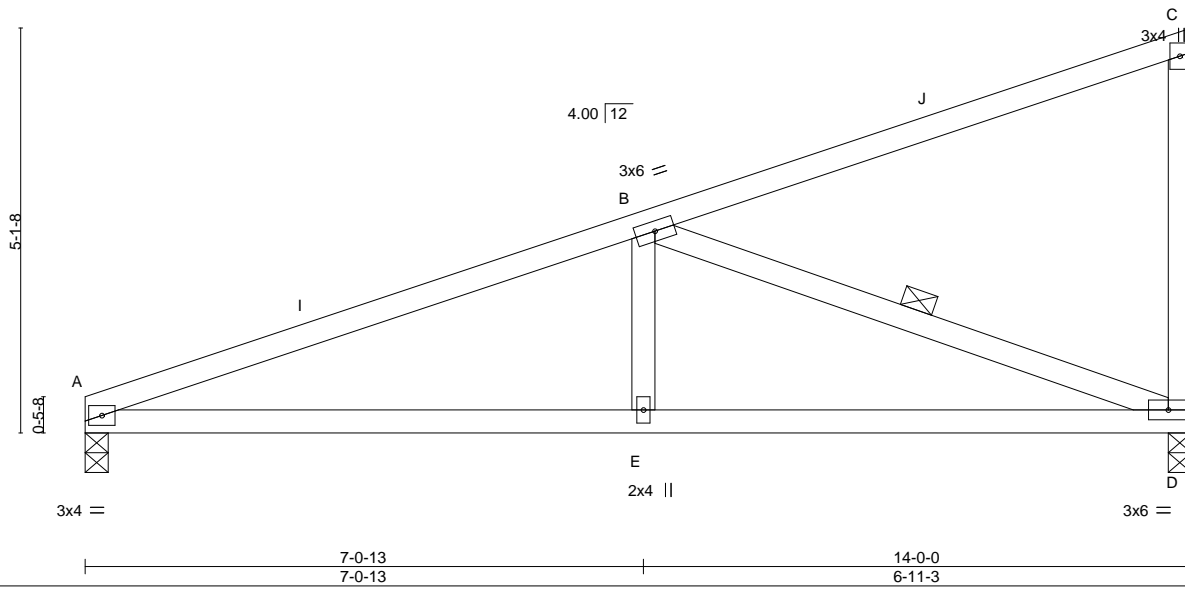
Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:53 2025 Page 1

ID:AvGMvLCC0iAyfYGFMu2TJvy7NIA-UqTS?dvAuTto_JJ9wlh25eGJxcSwa8U3rzXIMyqeTi



Scale = 1:29.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.81 BC 0.60 WB 0.36 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.07 E-H >999 240 Vert(CT) -0.14 E-H >999 180 Horz(CT) 0.02 D n/a n/a	MT20	244/190
TCDL 10.0	Rep Stress Incr YES Code IBC2018/TPI2014			Weight: 63 lb	FT = 20%
BCLL 10.0					
BCDL 10.0					

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt B-D

REACTIONS. (size) A=0-3-8, D=0-3-8
Max Horz A=200(LC 11)
Max Uplift A=-88(LC 8), D=-120(LC 12)
Max Grav A=625(LC 3), D=703(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1194/228, C-D=-256/83
BOT CHORD A-E=-183/1094, D-E=-183/1094
WEBS B-E=0/312, B-D=-1134/265

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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-10-4, Exterior(2E) 10-10-4 to 13-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=20.0 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) A except (jt=lb) D=120.
- 6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



August 7, 2025

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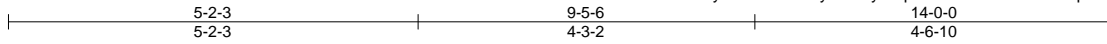
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 251264	Truss F3	Truss Type Roof Special Girder	Qty 1	Ply 2	REUNION AT BLACKWELL Job Reference (optional)	I75433635
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:54 2025 Page 1

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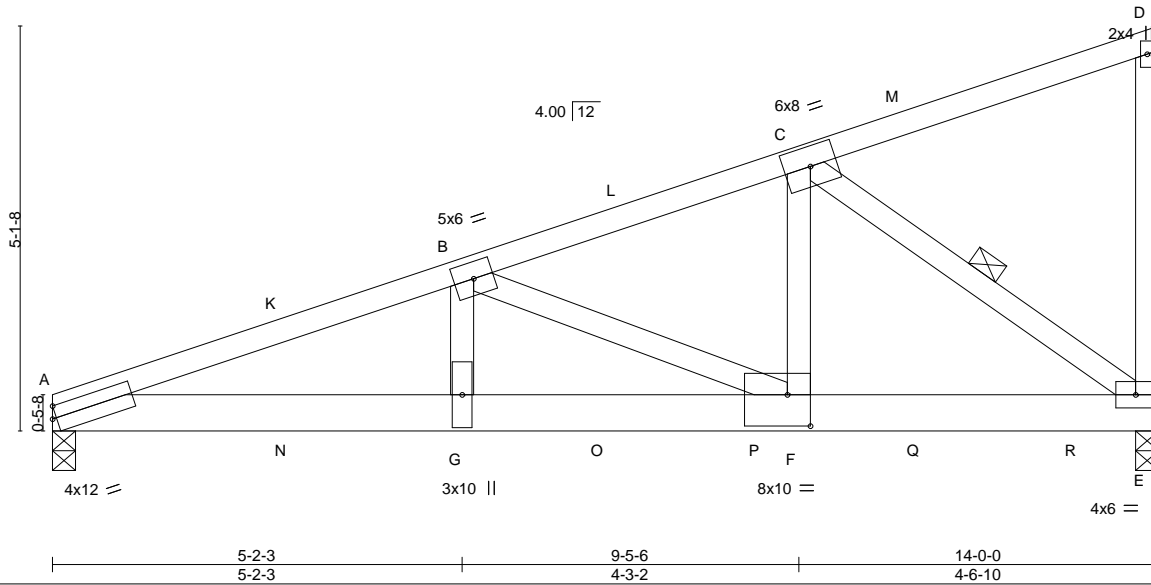


Plate Offsets (X, Y)--	[A:Edge,0-1-14], [F:0-3-8,0-4-12]				
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IBC2018/TPI2014	TC 0.69 BC 0.79 WB 0.84 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.13 G-J >999 240 Vert(CT) -0.24 G-J >703 180 Horz(CT) 0.05 E n/a n/a	MT20	244/190
TCDL 10.0					
BCLL 10.0					
BCDL 10.0				Weight: 163 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 3-7-8 oc purlins, except end verticals.
BOT CHORD 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* C-F: 2x4 SP No.2	WEBS 1 Row at midpt C-E

REACTIONS. (size) A=0-3-8, E=0-3-8
 Max Horz A=198(LC 11)
 Max Uplift A=-862(LC 8), E=-909(LC 12)
 Max Grav A=5946(LC 3), E=6137(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-11865/1788, B-C=-6469/999
 BOT CHORD A-G=-1674/11247, F-G=-1674/11247, E-F=-879/6115
 WEBS B-G=-466/3629, B-F=-5573/877, C-F=-845/6132, C-E=-7515/1160

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-10-4, Exterior(2E) 10-10-4 to 13-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pf=20.0 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
 - Unbalanced snow loads have been considered for this design.
 - 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 be **CONTRACTOR TO INSTALL (2) H2.5A CONNECTORS AT EACH LOCATION** uplift at joint(s) except (jt=lb) A=862, E=909.
 - This truss is designed in accordance with the 2018 International Building Code (IBC) and referenced standard ANSI/TPI 1.
 - Hanger(s) or other connection device(s) shall be provided. 1538 lb down and 231 lb up at 0-11-12, 1537 lb down and 231 lb up at 2-11-12, 1537 lb down and 231 lb up at 4-11-12, 1537 lb down and 231 lb up at 6-11-12, 1537 lb down and 231 lb up at 8-11-12, and 1537 lb down and 231 lb up at 10-11-12, and 1539 lb down and 230 lb up at 12-11-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



August 7, 2025

LOAD CASE(S) Standard

Continued on page 2

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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 251264	Truss F3	Truss Type Roof Special Girder	Qty 1	Ply 2	REUNION AT BLACKWELL Job Reference (optional)	175433635
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:54 2025 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: A-D=-60, E-H=-20

Concentrated Loads (lb)

Vert: G=-1465(B) J=-1466(B) N=-1465(B) O=-1465(B) P=-1465(B) Q=-1465(B) R=-1467(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Chesterfield, MO 63017
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Job 251264	Truss FL1	Truss Type Flat Girder	Qty 1	Ply 2	REUNION AT BLACKWELL Job Reference (optional)	175433636
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:54 2025 Page 1

ID:AvGMMLCC0iAyfYGFMu2TJvy7NIA-y01qDzvofm?fcTuLUTCHerpUkKvVfxLeIvI5HpyqeTh



Scale = 1:60.9

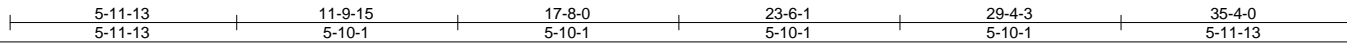
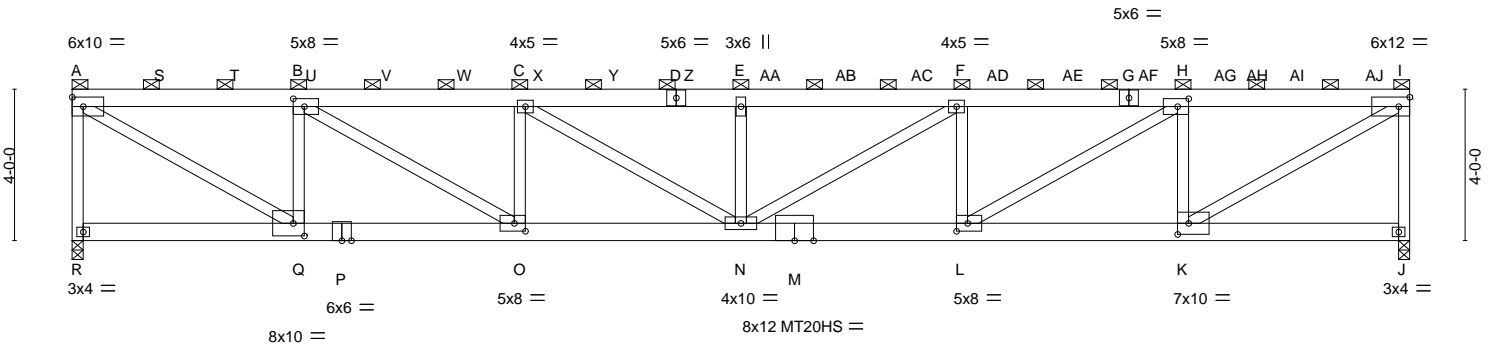


Plate Offsets (X, Y)-- [B:0-3-8,0-2-8], [H:0-3-8,0-2-8], [K:0-3-8,0-3-8], [L:0-3-8,0-2-8], [O:0-3-8,0-2-8], [Q:0-3-8,0-4-0]

LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15	TC 0.80	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.80	Vert(LL) -0.39 N >999 240	MT20HS	187/143
BCLL 10.0	Rep Stress Incr NO	WB 0.75	Vert(CT) -0.67 N >627 180		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MS	Horz(CT) 0.11 J n/a n/a		
				Weight: 508 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x6 SP 2400F 2.0E *Except*
P-R: 2x6 SP No.1
WEBS 2x4 SP 2400F 2.0E *Except*
A-R,I,J: 2x4 SP No.2, B-Q,C-O,E-N,F-L,H-K: 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (4-6-15 max.): A-1, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) R=0-3-8, J=0-3-8
Max Horz R=-129(LC 8)
Max Uplift R=-1193(LC 8), J=-1182(LC 9)
Max Grav R=7394(LC 2), J=7223(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-R=-7259/1319, A-B=-9812/1641, B-C=-15444/2601, C-E=-17373/2949, E-F=-17373/2949,
F-H=-15519/2666, H-I=-9996/1781, I-J=-7081/1291
BOT CHORD O-Q=-1601/9812, N-O=-2460/15444, L-N=-2525/15519, K-L=-1640/9996
WEBS A-Q=-1952/11363, B-Q=-5712/1103, B-O=-1123/6587, C-O=-3214/647, C-N=-407/2256,
E-N=-2149/460, F-N=-335/2169, F-L=-3134/602, H-L=-1035/6458, H-K=-5830/1109,
I-K=-1976/11562

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 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(3) 0-1-12 to 4-1-12, Exterior(2) 4-1-12 to 31-2-4, Corner(3) 31-2-4 to 35-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pf=20.0 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
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Bearing at joint(s) R, J considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

10) Provide mechanical connection (by others) of truss to be **CONTRACTOR TO INSTALL (2) H2.5A CONNECTORS AT EACH LOCATION** uplift at joint(s) except (jt=lb) referenced standard ANSI/TPI



August 7, 2025

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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Job 251264	Truss FL1	Truss Type Flat Girder	Qty 1	Ply 2	REUNION AT BLACKWELL Job Reference (optional)	175433636
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:54 2025 Page 2
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NOTES-

- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 781 lb down and 179 lb up at 0-1-12, 772 lb down and 191 lb up at 2-4-0, 649 lb down and 149 lb up at 4-4-0, 649 lb down and 149 lb up at 6-4-0, 649 lb down and 149 lb up at 8-4-0, 649 lb down and 149 lb up at 10-4-0, 649 lb down and 149 lb up at 12-4-0, 649 lb down and 149 lb up at 14-4-0, 649 lb down and 149 lb up at 16-4-0, 649 lb down and 149 lb up at 18-4-0, 649 lb down and 149 lb up at 20-4-0, 649 lb down and 149 lb up at 22-4-0, 649 lb down and 149 lb up at 24-4-0, 649 lb down and 149 lb up at 26-4-0, 649 lb down and 149 lb up at 28-4-0, 772 lb down and 191 lb up at 30-4-0, and 772 lb down and 191 lb up at 32-4-0, and 774 lb down and 189 lb up at 34-4-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-I=-60, J-R=-20

Concentrated Loads (lb)

Vert: A=-757 S=-732 T=-609 U=-609 V=-609 W=-609 X=-609 Y=-609 Z=-609 AA=-609 AB=-609 AC=-609 AD=-609 AE=-609 AF=-609 AG=-732 AI=-732 AJ=-737

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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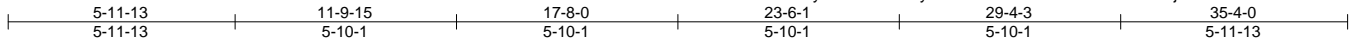
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 251264	Truss FL1A	Truss Type Flat Girder	Qty 1	Ply 2	REUNION AT BLACKWELL Job Reference (optional)	175433637
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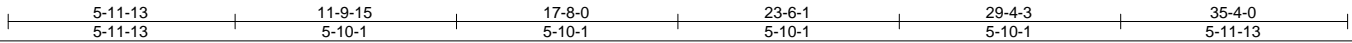
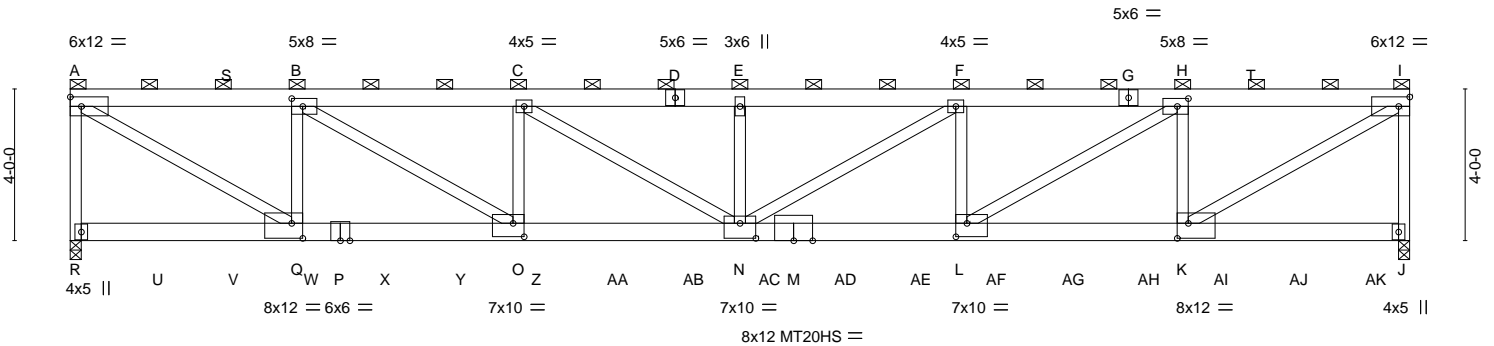
Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:55 2025 Page 1

ID:AvGMvLCC0iAyfYGFMu2TJvy7NIA-RDaCQJwQQ47WDdTY2AjWB3LhMkFIOQ4nX9SepFyqeTg



Scale = 1:60.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IBC2018/TPI2014	TC 0.68 BC 0.77 WB 0.59 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.41 L-N >999 240 Vert(CT) -0.68 L-N >621 180 Horz(CT) 0.11 J n/a n/a	MT20 MT20HS	244/190 187/143
TCDL 10.0				Weight: 508 lb	FT = 20%
BCLL 10.0					
BCDL 10.0					

LUMBER-	BRACING-
TOP CHORD 2x6 SP 2400F 2.0E	TOP CHORD 2-0-0 oc purlins (5-0-1 max.): A-I, except end verticals.
BOT CHORD 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP 2400F 2.0E *Except*	
A-R,I-J: 2x4 SP No.2, B-Q,C-O,E-N,F-L,H-K: 2x4 SP No.3	

REACTIONS. (size) R=0-3-8, J=0-3-8
 Max Horz R=-129(LC 8)
 Max Uplift R=-1650(LC 8), J=-1633(LC 9)
 Max Grav R=7563(LC 1), J=7409(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-R=-6204/1580, A-B=-9998/2411, B-C=-15736/3819, C-E=-17722/4321, E-F=-17722/4321, F-H=-15824/3886, H-I=-10221/2560, I-J=-6334/1607
 BOT CHORD O-Q=-2270/9998, N-O=-3678/15736, L-N=-3745/15824, K-L=-2418/10221
 WEBS A-Q=-2844/11579, B-Q=-3810/1097, B-O=-1646/6710, C-O=-1555/524, C-N=-587/2322, E-N=-340/223, F-N=-509/2220, F-L=-1505/487, H-L=-1552/6552, H-K=-3721/1035, I-K=-2877/11822

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 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(3) 0-1-12 to 4-1-12, Exterior(2) 4-1-12 to 31-2-4, Corner(3) 31-2-4 to 35-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pf=20.0 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
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Bearing at joint(s) R, J considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to be lifted at joint(s) except (jt=lb)
 - This truss is designed in accordance with the 2018 International Building Code (IBC) and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size and/or bottom chord.

CONTRACTOR TO INSTALL SIMPSON STRONG TIE MSTA30 W/ (22) 0.148 x 2 1/2" NAILS FROM TRUSS TO STUD PACK BELOW. SPLIT 15" ON TRUSS AND 15" OF STUD PACK.



August 7, 2025

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL	I75433637
251264	FL1A	Flat Girder	1	2	Job Reference (optional)	

Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:55 2025 Page 2

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NOTES-

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 774 lb down and 185 lb up at 0-1-12, 766 lb down and 193 lb up at 2-4-0, 641 lb down and 149 lb up at 4-4-0, 641 lb down and 149 lb up at 6-4-0, 641 lb down and 149 lb up at 8-4-0, 641 lb down and 149 lb up at 10-4-0, 641 lb down and 149 lb up at 12-4-0, 641 lb down and 149 lb up at 14-4-0, 641 lb down and 149 lb up at 16-4-0, 641 lb down and 149 lb up at 18-4-0, 641 lb down and 149 lb up at 20-4-0, 641 lb down and 149 lb up at 22-4-0, 641 lb down and 149 lb up at 24-4-0, 641 lb down and 149 lb up at 26-4-0, 641 lb down and 149 lb up at 28-4-0, 766 lb down and 193 lb up at 30-4-0, and 766 lb down and 193 lb up at 32-4-0, and 767 lb down and 191 lb up at 34-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: A-I=-60, J-R=-20

Concentrated Loads (lb)

Vert: R=-774 U=-766 V=-641 W=-641 X=-641 Y=-641 Z=-641 AA=-641 AB=-641 AC=-641 AD=-641 AE=-641 AF=-641 AG=-641 AH=-641 AI=-766 AJ=-766 AK=-767

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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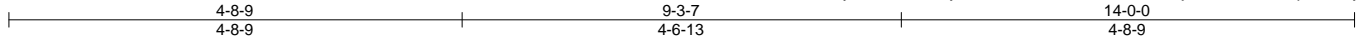
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL	175433638
251264	FL2	Roof Special Girder	1	2	Job Reference (optional)	

Heartland Truss, LLC., Plattsburg, MO - 64477,

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Scale: 1/2"=1'

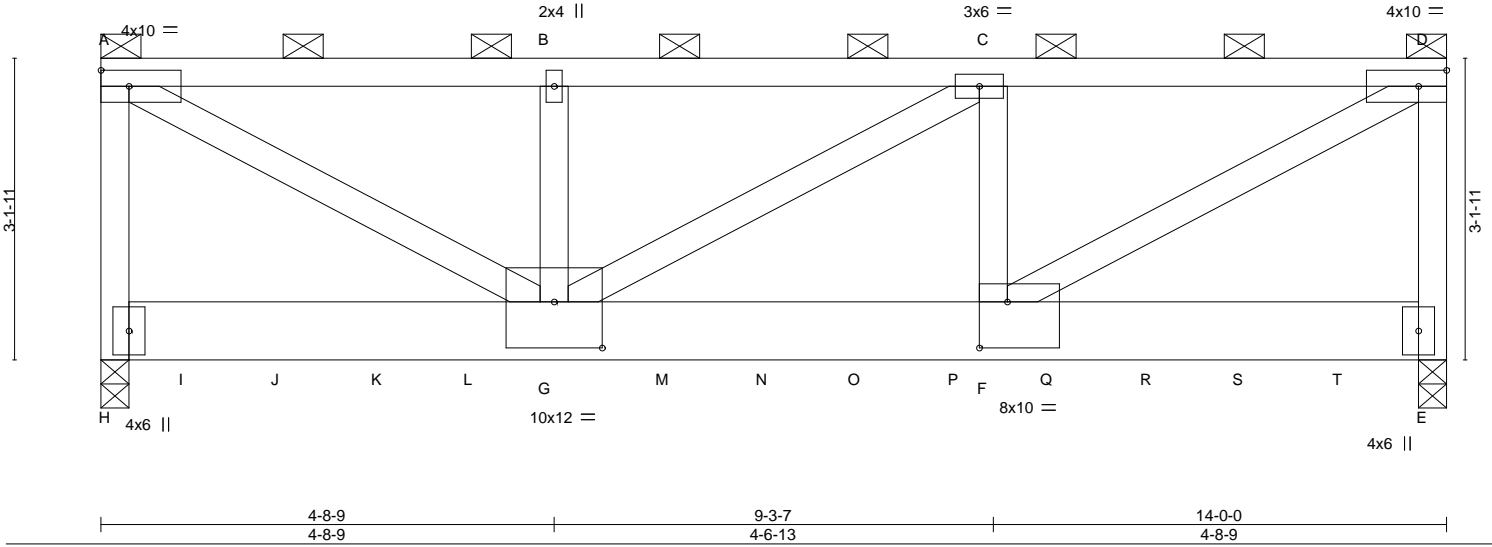


Plate Offsets (X, Y)-- [F:0-3-8,0-5-12], [G:0-6-0,0-5-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IBC2018/TPI2014	TC 0.68 BC 0.36 WB 0.67 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.08 F-G >999 240 Vert(CT) -0.15 F-G >999 180 Horz(CT) 0.01 E n/a n/a	MT20	244/190
TCDL 10.0				Weight: 198 lb	FT = 20%
BCLL 10.0					
BCDL 10.0					

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
A-G,C-G,D-F: 2x4 SP 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (4-10-3 max.): A-D, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) H=0-3-8, E=0-3-8
Max Horz H=98(LC 8)
Max Uplift H=775(LC 8), E=755(LC 9)
Max Grav H=5153(LC 2), E=5105(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-H=-3635/839, A-B=-6057/1195, B-C=-6057/1195, C-D=-6118/1245, D-E=-3669/823
BOT CHORD F-G=-1137/6118
WEBS A-G=-1384/6908, B-G=-258/318, C-F=-237/288, D-F=-1349/6985

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 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(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=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=20.0 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
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) H, E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing at joint(s) H, E=775, E=755.
- This truss is designed in accordance with the 2018 International Building Code (IBC) and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

CONTRACTOR TO INSTALL (2) H2.5A CONNECTORS AT EACH LOCATION



August 7, 2025

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

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314.434.1200 / MiTek-US.com

Job 251264	Truss FL2	Truss Type Roof Special Girder	Qty 1	Ply 2	REUNION AT BLACKWELL Job Reference (optional)	175433638
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:56 2025 Page 2
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NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1028 lb down and 172 lb up at 0-11-12, 317 lb down and 34 lb up at 1-11-4, 1025 lb down and 174 lb up at 2-11-12, 317 lb down and 34 lb up at 3-11-4, 1025 lb down and 174 lb up at 4-11-12, 317 lb down and 34 lb up at 5-11-4, 1025 lb down and 174 lb up at 6-11-12, 317 lb down and 34 lb up at 7-11-4, 1025 lb down and 174 lb up at 8-11-12, 317 lb down and 34 lb up at 9-11-4, 1025 lb down and 174 lb up at 10-11-12, and 317 lb down and 34 lb up at 11-11-4, and 1027 lb down and 173 lb up at 12-11-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: A-D=-60, E-H=-20

Concentrated Loads (lb)

Vert: G=-992(B) E=-31 I=-994(B) J=-317(F) K=-992(B) L=-317(F) M=-317(F) N=-992(B) O=-317(F) P=-992(B) Q=-317(F) R=-992(B) S=-317(F) T=-993(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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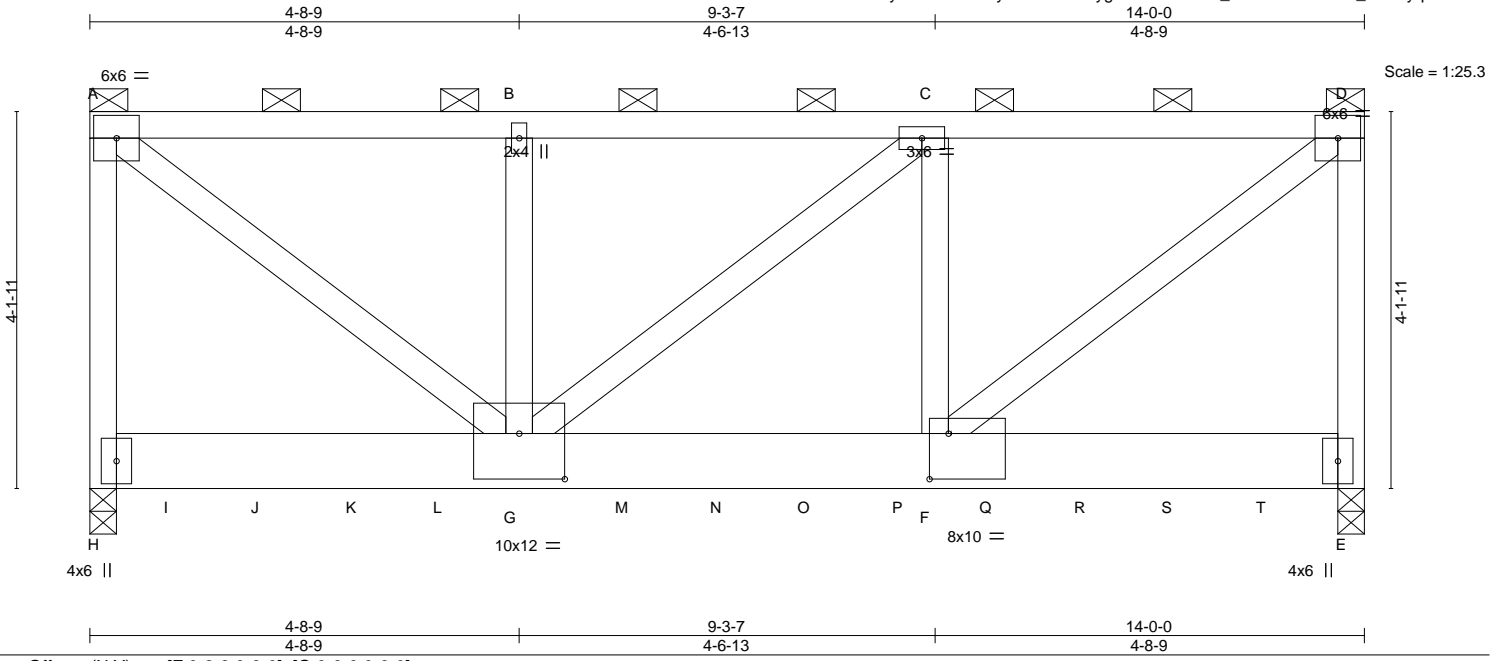
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 251264	Truss FL2A	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 2	REUNION AT BLACKWELL Job Reference (optional)	175433639
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:57 2025 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IBC2018/TPI2014	TC 0.57 BC 0.28 WB 0.55 Matrix-MS	in (loc) l/def L/d Vert(LL) -0.06 F-G >999 240 Vert(CT) -0.10 F-G >999 180 Horz(CT) 0.01 E n/a n/a	MT20	244/190
TCDL 10.0				Weight: 214 lb	FT = 20%
BCLL 10.0					
BCDL 10.0					

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
A-G,C-G,D-F: 2x4 SP 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (5-9-9 max.): A-D, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) H=0-3-8, E=0-3-8
Max Horz H=-135(LC 8)
Max Uplift H=-468(LC 8), E=-463(LC 9)
Max Grav H=5160(LC 2), E=5081(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-H=-3724/619, A-B=-4515/578, B-C=-4515/578, C-D=-4530/627, D-E=-3735/575
BOT CHORD F-G=-480/4530
WEBS A-G=-778/5736, B-G=-271/325, C-F=-267/277, D-F=-697/5759

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 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(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=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pf=20.0 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
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Bearing at joint(s) H, E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) H=468, E=463.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1030 lb down and 173 lb up at 0-11-12, 317 lb down at 1-11-4, 1027 lb down and 175 lb up at 2-11-12, 317 lb down at 3-11-4, 1027 lb down and 175 lb up at 4-11-12, 317 lb down at 5-11-4, 1027 lb down and 175 lb up at 6-11-12, 317 lb down at 7-11-4, 1027 lb down and 175 lb up at 8-11-12, 317 lb down at 9-11-4, 1027 lb down and 175 lb up at 10-11-12, and 317 lb down at 11-11-4, and 1029 lb down and 174 lb up at 12-11-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



August 7, 2025

Job 251264	Truss FL2A	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 2	REUNION AT BLACKWELL Job Reference (optional)	175433639
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:57 2025 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: A-D=-60, E-H=-20

Concentrated Loads (lb)

Vert: G=-995(F) I=-996(F) J=-317(B) K=-995(F) L=-317(B) M=-317(B) N=-995(F) O=-317(B) P=-995(F) Q=-317(B) R=-995(F) S=-317(B) T=-996(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Chesterfield, MO 63017
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Job 251264	Truss G1	Truss Type GABLE	Qty 1	Ply 1	REUNION AT BLACKWELL	I75433640
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Heartland Truss, LLC, Plattsburg, MO.

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8.830 s Jun 11 2025 MiTek Industries, Inc. Wed Aug 6 15:47:11 2025 Page 1

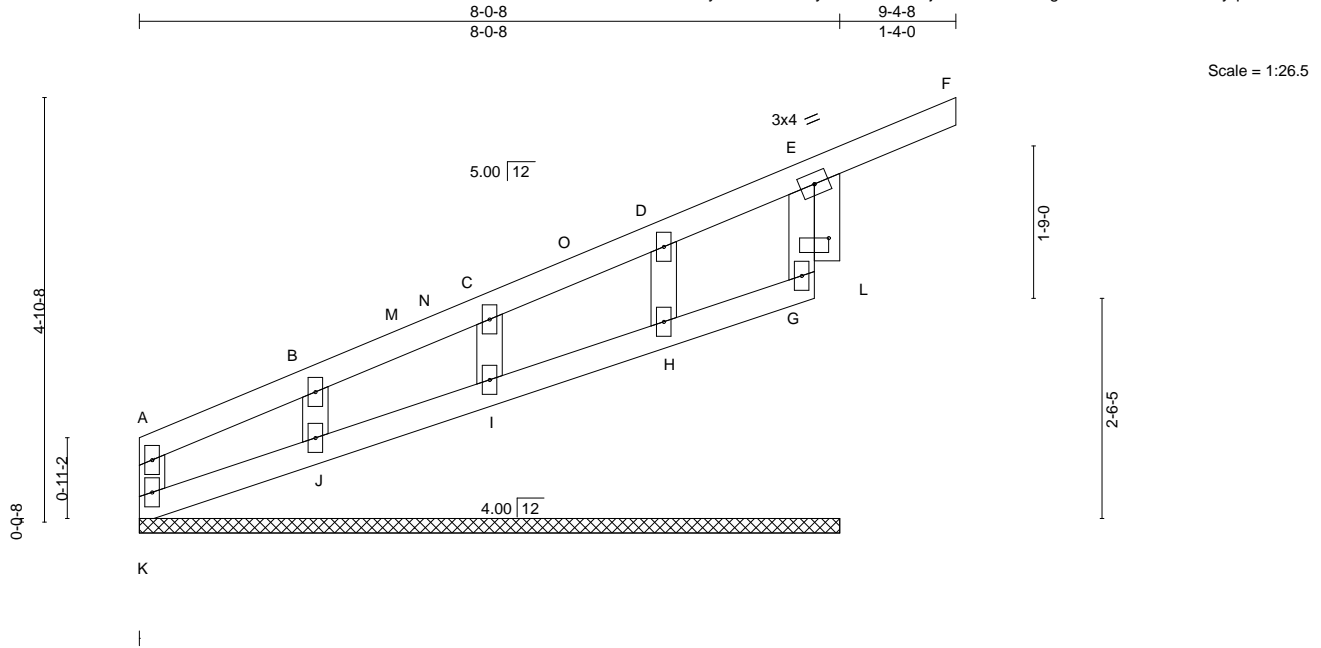


Plate Offsets (X,Y)-- [E:0-2-0,0-7-7]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15	TC 0.29	Vert(LL) 0.01	F	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT) -0.00	F	n/r	90		
BCLL 10.0	Rep Stress Incr YES	WB 0.06	Horz(CT) -0.00	G	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-R					Weight: 35 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 8-0-8.
 (lb) - Max Horz K=144(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) K, I, J except G=-121(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) K, I, J, H except G=290(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD G-L=-287/215, E-L=-292/214

- 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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 5-1-9, Exterior(2R) 5-1-9 to 9-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 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=20.0 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) This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 9) Gable studs spaced at 2-0-0 oc.
 - 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 11) Bearing at joint(s) K, G, I, J, H considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) K, I, J except (jt=lb) G=121.
 - 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) G, I, J, H.
 - 14) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

CONTRACTOR TO PROVIDE
 OUT OF PLANE BRACING, RE:
 1/S061



August 7, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

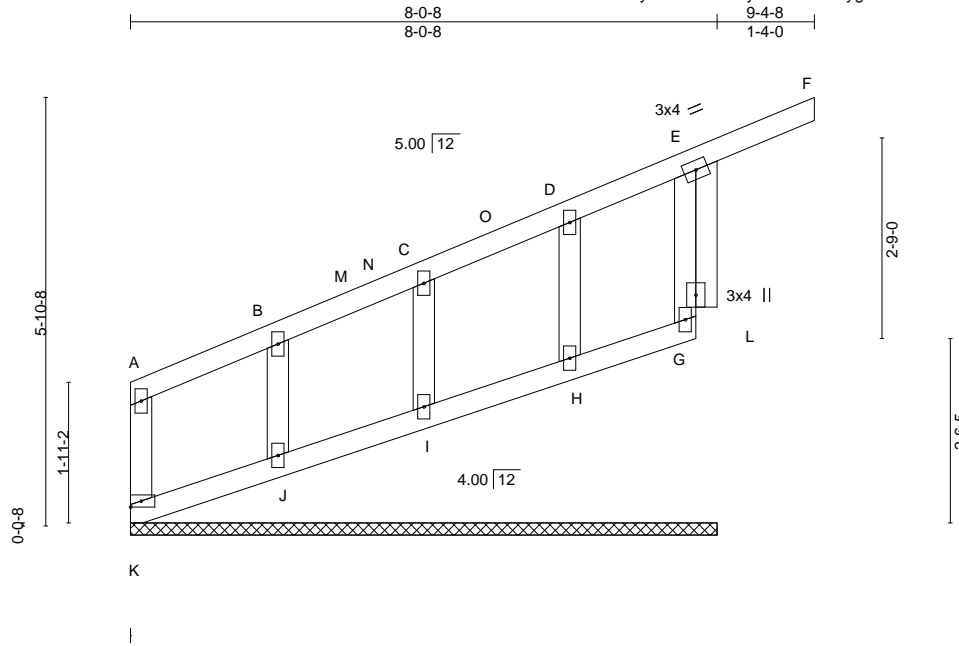
MiTek®

16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 251264	Truss G1A	Truss Type GABLE	Qty 1	Ply 1	REUNION AT BLACKWELL Job Reference (optional)	175433641
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Heartland Truss, LLC., Plattsburg, MO - 64477,

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 6 07:09:57 2025 Page 1
ID:AvGMvLCC0iAyfYGFMu2TJvy7NIA-Nbizr?yghNETwdw9bl_GUR5rY4vsSg4_Txlu8yqTe



Scale = 1:31.6

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.18	Vert(LL) 0.01 E-F n/r 120		
BCLL 10.0	Lumber DOL 1.15	WB 0.07	Vert(CT) 0.00 F n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) -0.00 G n/a n/a		
	Code IBC2018/TPI2014			Weight: 44 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 8-0-8.
(lb) - Max Horz K=180(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) K, I, H except G=-204(LC 9), J=-134(LC 9)
Max Grav All reactions 250 lb or less at joint(s) K, I, J, H except G=301(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD E-G=-286/243

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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 5-1-9, Exterior(2R) 5-1-9 to 9-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; ~~Lumber DOL=1.33 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=20.0 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) This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) Bearing at joint(s) K, G, I, J, H considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) K, I, H except (jt=lb) G=204, J=134.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) G, I, J, H.
- 14) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

CONTRACTOR TO PROVIDE
OUT OF PLANE BRACING, RE:
1/S061



August 7, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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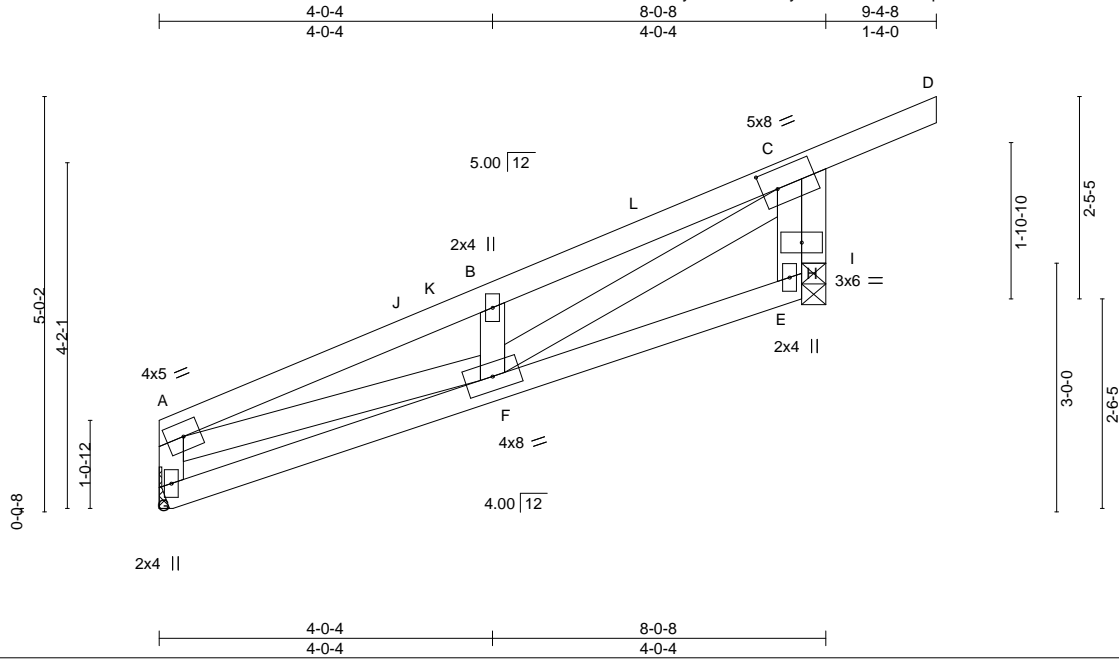
MiTek®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 251264	Truss G2	Truss Type Jack-Closed	Qty 6	Ply 1	REUNION AT BLACKWELL	I75433642
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Heartland Truss, LLC, Plattsburg, MO.

ID:AvGMvLCC0iAyfYGFMu2TJvy7NIA-R6OZ6xnxSpzQoIrkE7cB4h5mL7md1BygXXH?aNyqGbU
8.830 s Jun 11 2025 MiTek Industries, Inc. Thu Aug 7 10:19:59 2025 Page 1



Scale = 1:27.8

Plate Offsets (X,Y)-- [C:0-2-4,0-2-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15	TC 0.35	Vert(LL) -0.02	F-G >999	240	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT) -0.04	F-G >999	180	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.30	Horz(CT) 0.00	I n/a	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MP					Weight: 45 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. (lb/size) G=301/Mechanical, I=401/0-3-8 (min. 0-1-8)
 Max Horz G=131(LC 9)
 Max Uplift G=-14(LC 12), I=-100(LC 9)
 Max Grav G=349(LC 3), I=556(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-G=-298/119, A-J=-780/141, J-K=-730/148, B-K=-720/152, B-L=-779/209, C-L=-686/224
 WEBS A-F=-101/703, B-F=-290/182, C-F=-318/723, C-I=-574/232

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 19.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Bearing at joint(s) I considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint G and 100 lb uplift at joint I.
 - 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 7, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 251264	Truss G2A	Truss Type Jack-Closed	Qty 6	Ply 1	REUNION AT BLACKWELL	175433643
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Heartland Truss, LLC, Plattsburg, MO.

ID:AvGMVLCC0iAyfYGFMu2TJvy7NIA-oQqb?jOFTIfb7jdW1DIkgq8dPUs6vTWDx4mkAyqGa4
8.830 s Jun 11 2025 MiTek Industries, Inc. Thu Aug 7 10:21:29 2025 Page 1

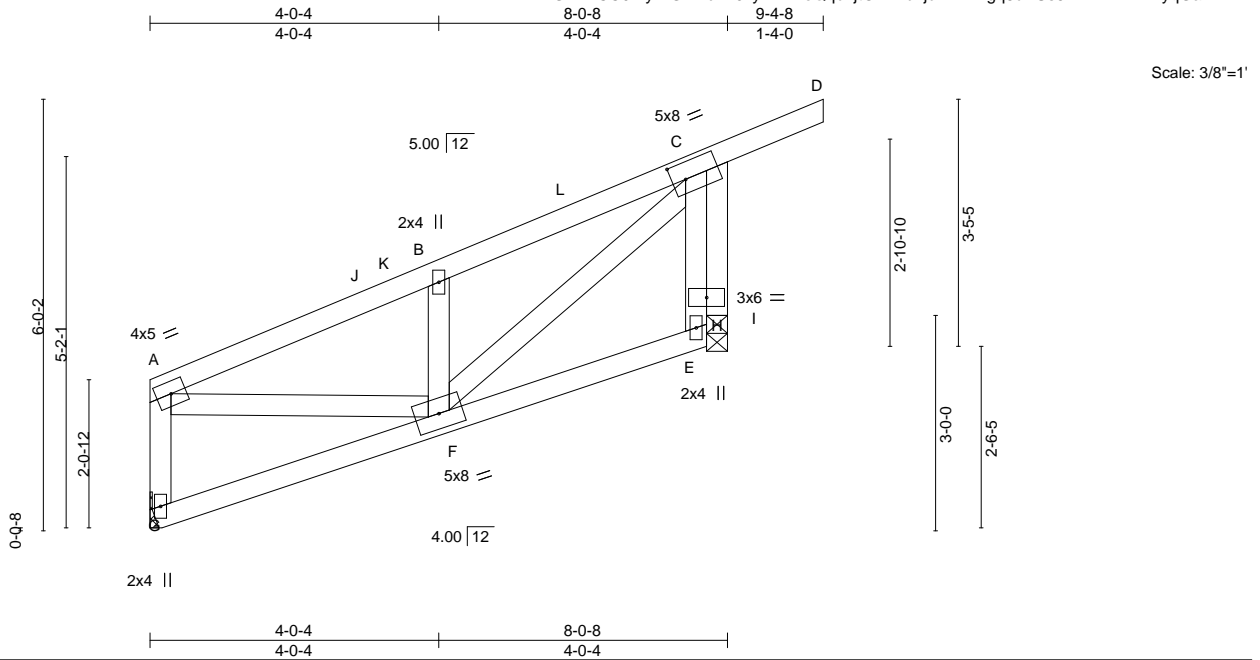


Plate Offsets (X,Y)-- [C:0-2-4,0-2-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15		TC 0.35	Vert(LL) -0.01	F-G	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.13	Vert(CT) -0.02	F-G	>999	180		
BCLL 10.0	Rep Stress Incr YES		WB 0.22	Horz(CT) 0.00	I	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-MP					Weight: 51 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. (lb/size) G=301/Mechanical, I=401/0-3-8 (min. 0-1-8)
 Max Horz G=151(LC 9)
 Max Uplift I=-118(LC 9)
 Max Grav G=349(LC 3), I=556(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-G=-303/95, A-J=-449/42, J-K=-392/48, B-K=-389/52, B-L=-464/117, C-L=-370/132
 WEBS A-F=-22/397, B-F=-308/187, C-F=-250/473, C-I=-560/251

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=20.0 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 19.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Bearing at joint(s) I considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint I.
 - 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 7, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

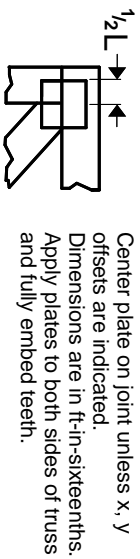
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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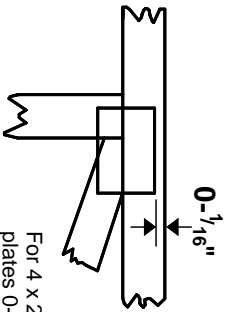
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Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16\"/>



This symbol indicates the required direction of slots in connector plates.

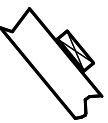
* Plate location details available in MITtek software or upon request.

PLATE SIZE

4 X 4

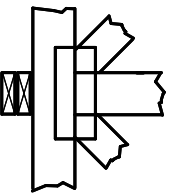
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

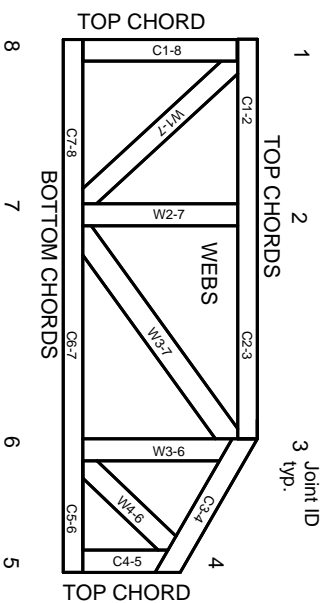


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1-1988, ESR-2-362, ESR-2-685, ESR-3-282
ESR-4-722, ESL-1-388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on Lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability/bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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MITtek Engineering Reference Sheet: Mill-7473 rev. 1/2/2023