RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
11/12/2025

Joe Frogge

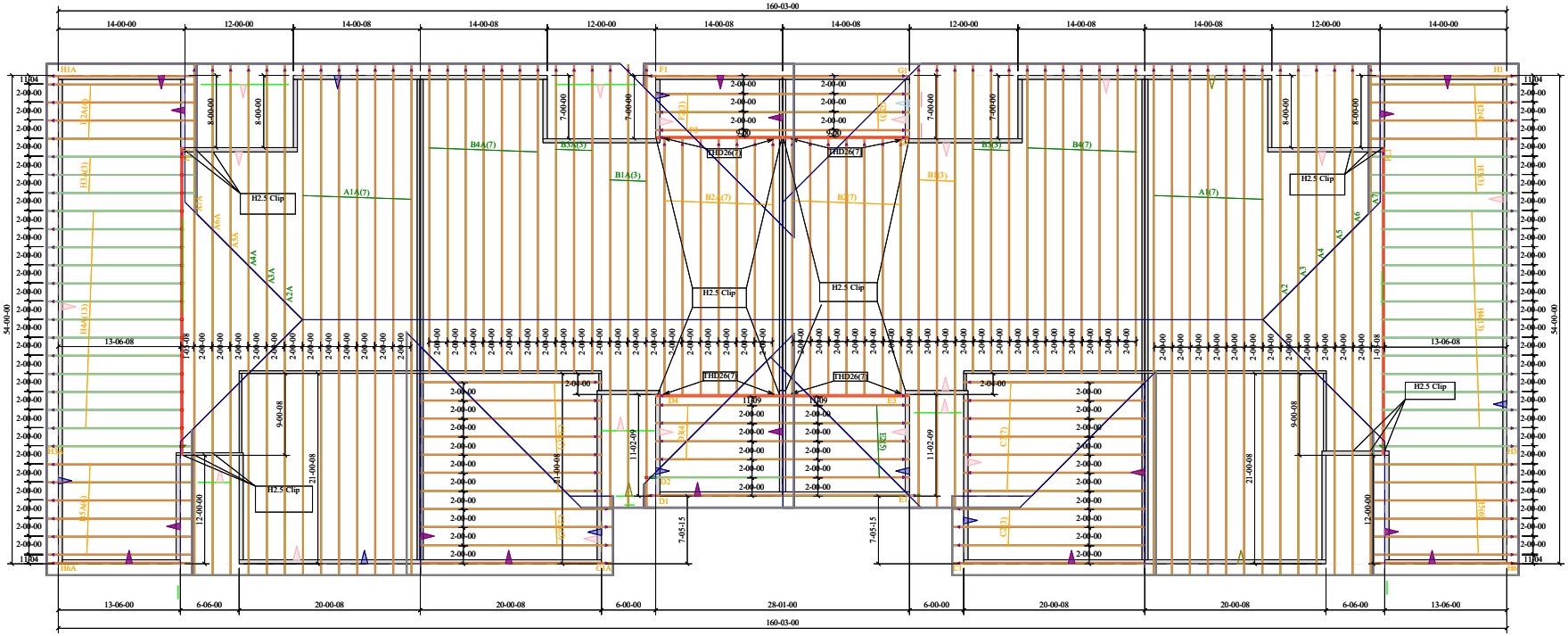
Digitally signed by Joe Frogge
DN: CN=Joe Frogge, OU=Development, OU=LS Users, DC=COLS, DC=LOC
Date: 2025.11.12 13:50:12-06'00'

Hold downs to be ^" TLOK screws
unless otherwise noted

TRUSSES ARE SPACED AT 24" CENTERS
OVERHANGS ARE 16"
PITCH IS 4/12
SOFFIT DROP VARIES

LOWER SIDE 1-7-3

HIGHER SIDE 1-7-3



HEARTLAND TRUSS, LLC.
500 MID AMERICA DR.
PLATTSBURG, MO. 64477

P: 816-930-3177

BY: JOHN FITZGERALD

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

Review is only for general conformance with the design concept and the intent of the Contract Documents. Contractor is solely responsible for verifying dimensions, for establishing fabrication processes, means, techniques, sequences and procedures of construction and for coordination of work of all trades. Review action taken and noted to information shown does not authorize deviations from the intent of the contract documents, unless so stated in a separate letter or Change Order. The Structural Engineer and/or Architect-of-Record retained by the Contractor or his Supplier, for the Design / Build portion of the project represented by this submittal, is solely responsible for the correctness, appropriateness and adequacy of the Design / Build system.

By: JFunk
Date: 11/11/2025

84 LUMBER / REUNION AT BLACKWELL / BUILDING D
BUILDING #7 W/ STEP OF 1-7-3
SE SHENANDOAH DR.
LEE' SUMMIT, MO.

JOB # 251334 ROOF LAYOUT

DATE: 9/16/2025

MiTek®

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

Re: 251334
REUNION AT BLACKWELL/ Bldg D

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
11/12/2025

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: I76502396 thru I76502449

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

Review is only for general conformance with the design concept and the intent of the Contract Documents. Contractor is solely responsible for verifying dimensions, for establishing fabrication processes, means, techniques, sequences and procedures of construction and for coordination of work of all trades. Review action taken and noted to information shown does not authorize deviations from the intent of the contract documents, unless so stated in a separate letter or Change Order. The Structural Engineer and/or Architect-of-Record retained by the Contractor or his Supplier, for the Design / Build portion of the project represented by this submittal, is solely responsible for the correctness, appropriateness and adequacy of the Design / Build system.

By: JFunk
Date: 11/11/2025

September 22,2025

Lu, Jie ,Engineer

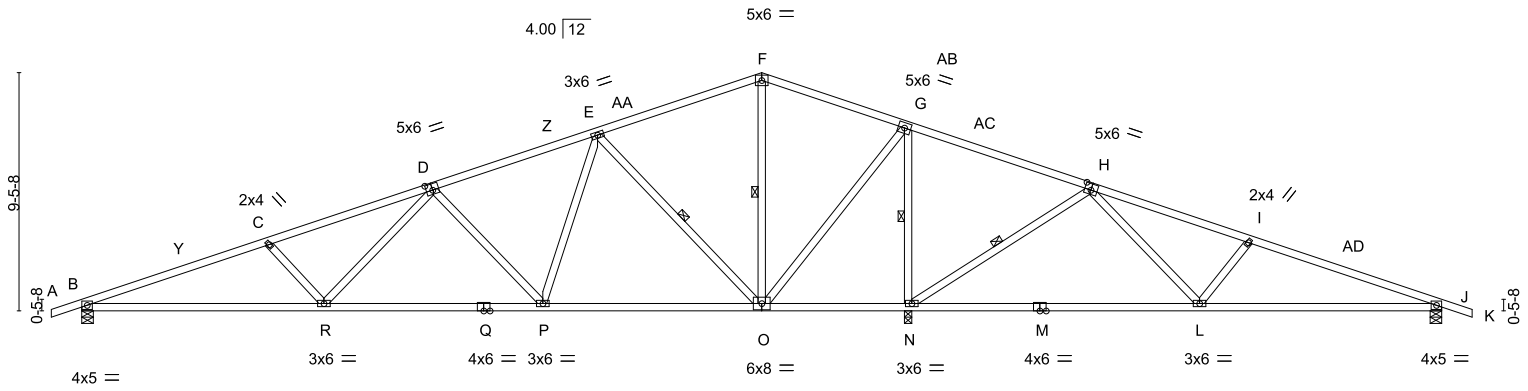
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	A1	Common	7	1	I76502396
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:21 2025 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-nRC7hiD5BKEp8P5TY6T083bk_7GSQDGHSP2BPpyc2Ni

-1-2-8	7-5-5	13-11-9	20-5-12	27-0-0	32-9-12	40-0-7	46-3-14	54-0-0	55-2-8
1-2-8	7-5-5	6-6-4	6-6-4	6-6-4	5-9-12	7-2-11	6-3-7	7-8-2	1-2-8

Scale = 1:91.5



9-7-6	18-3-11	27-0-0	32-9-12	44-4-10	54-0-0
9-7-6	8-8-5	8-8-5	5-9-12	11-6-14	9-7-6

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

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	0.67	Vert(LL)	-0.27	L-N	>957	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.52	L-N	>493	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.06	N	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.12	R	>999	240	Weight: 280 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E *Except*
A-D,H-K: 2x4 SP No.2
BOT CHORD 2x4 SP 1650F 1.5E *Except*
M-O,O-Q: 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt E-O, F-O, G-N, H-N

REACTIONS. (size) B=0-5-8, N=0-3-8, J=0-5-8
Max Horz B=158(LC 12)
Max Uplift B=-235(LC 8), N=-321(LC 9), J=-163(LC 9)
Max Grav B=1229(LC 3), N=3054(LC 2), J=577(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2634/452, C-D=-2383/399, D-E=-1287/287, G-H=-155/1411, H-I=-482/268, I-J=-758/266
BOT CHORD B-R=-509/2451, P-R=-319/1683, O-P=-128/938, N-O=-1282/378, L-N=-620/186, J-L=-174/663
WEBS C-R=-428/214, D-R=-73/798, D-P=-767/249, E-P=-77/924, E-O=-1346/301, F-O=-404/93, G-O=-298/1923, G-N=-2170/526, H-N=-1002/289, H-L=-56/965, I-L=-445/213

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 21-7-3, Exterior(2R) 21-7-3 to 32-4-13, Interior(1) 32-4-13 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 16.0 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=235, N=321, J=163.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

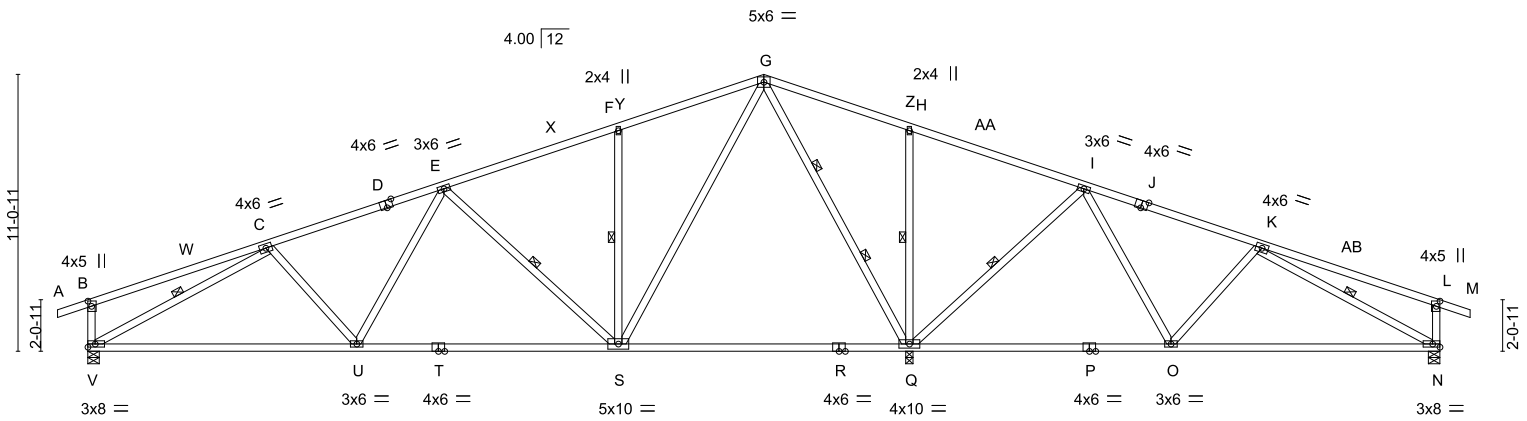
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	A1A	Common	7	1	I76502397
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:22 2025 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-FelVu2EjyeMgmZgg6p_FgH8sJXZr9dmQh3nkxGyc2Nh

-1-2-8	7-3-1	14-2-11	21-2-4	27-0-0	32-9-12	39-9-5	46-8-15	54-0-0	55-2-8
1-2-8	7-3-1	6-11-9	6-11-9	5-9-12	5-9-12	6-11-9	6-11-9	7-3-1	1-2-8

Scale = 1:92.0



10-8-14	21-2-4	32-9-12	43-3-2	54-0-0
10-8-14	10-5-6	11-7-8	10-5-6	10-8-14

Plate Offsets (X,Y)-- [B:0-2-8,0-1-12], [D:0-3-0,Edge], [J:0-3-0,Edge], [L:0-2-8,0-1-12]

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	0.89	Vert(LL)	-0.29	Q-S	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.60	Q-S	>653	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.05	Q	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.08	S-U	>999	240	Weight: 322 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 1650F 1.5E *Except*
P-R: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
G-Q,G-S: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt H-Q, I-Q, F-S, E-S, C-V, K-N
2 Rows at 1/3 pts G-Q

REACTIONS. (size) Q=0-3-8, V=0-5-8, N=0-5-8
Max Horz V=100(LC 12)
Max Uplift Q=-336(LC 9), V=-239(LC 8), N=-156(LC 9)
Max Grav Q=2955(LC 2), V=1265(LC 3), N=612(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-E=-1656/317, E-F=-898/263, F-G=-932/355, G-H=0/1004, H-I=-58/1021, I-K=-296/186, B-V=-336/182, L-N=-326/201
BOT CHORD U-V=-342/1521, S-U=-228/1310, O-Q=-364/180, N-O=-127/451
WEBS G-Q=-1902/313, H-Q=-617/224, I-Q=-938/259, I-O=-33/717, K-O=-393/215, G-S=-275/1561, F-S=-611/223, E-S=-749/236, E-U=0/468, C-V=-1579/287, K-N=-374/122

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 21-7-3, Exterior(2R) 21-7-3 to 32-4-13, Interior(1) 32-4-13 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 16.0 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) Q=336, V=239, N=156.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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

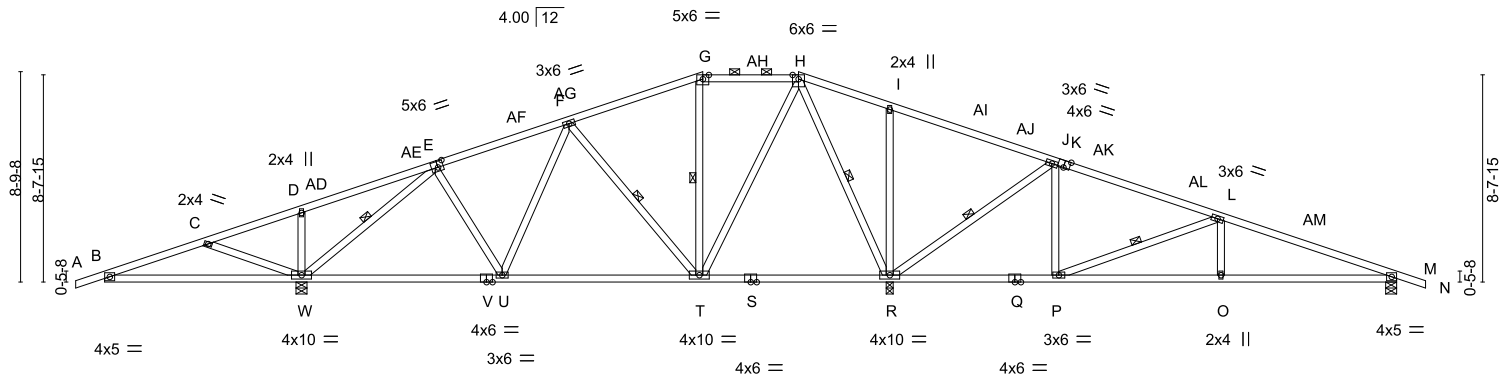
Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	A2	Hip	1	1	I76502398
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:23 2025 Page 1

ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-kqJt5OFLjxUXOjFsfWVUDUg32x_au86awjXIUiyc2Ng

-1-2-8	4-3-15	8-2-12	13-9-13	19-4-15	25-0-0	29-0-0	32-9-12	39-8-13	46-7-14	54-0-0	55-2-8
1-2-8	4-3-15	3-10-13	5-7-1	5-7-1	5-7-1	4-0-0	3-9-12	6-11-1	6-11-1	7-4-2	1-2-8

Scale: 1/8"=1'



8-0-0	8-2-12	16-7-6	25-0-0	29-0-0	32-9-12	39-8-13	46-7-14	54-0-0
8-0-0	0-2-12	8-4-10	8-4-10	4-0-0	3-9-12	6-11-1	6-11-1	7-4-2

Plate Offsets (X,Y)-- [E:0-2-12,0-3-0], [K: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	0.77	Vert(LL)	-0.09	O-AC	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.18	O-AC	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.02	M	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.06	O-AC	>999	240	Weight: 302 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SP No.2 *Except* E-G,H-K: 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 4-9-2 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): G-H.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

WEBS 1 Row at midpt E-W, F-T, G-T, H-R, J-R, L-P

REACTIONS. (size) W=0-5-8, R=0-3-8, M=0-5-8

Max Horz W=146(LC 12)

Max Uplift W=-536(LC 8), R=-323(LC 9), M=-165(LC 9)

Max Grav W=1893(LC 39), R=2932(LC 33), M=692(LC 39)

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

TOP CHORD B-C=-488/741, C-D=-693/1149, D-E=-636/1176, E-F=-577/147, F-G=-380/159, G-H=-292/175, H-I=0/1096, I-J=-52/1181, L-M=-1150/237

BOT CHORD B-W=-650/495, U-W=-86/437, T-U=-71/523, R-T=-396/245, O-P=-150/1047, M-O=-150/1047

WEBS C-W=-454/281, D-W=-381/162, E-W=-1825/635, E-U=-84/383, F-T=-593/136, G-T=-309/118, H-T=-89/1035, H-R=-1528/171, I-R=-595/226, J-R=-1365/253, J-P=0/592, L-P=-1031/217, L-O=0/300

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 4-1-3, Interior(1) 4-1-3 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 16.0 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) W=536, R=323, M=165.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

September 22,2025

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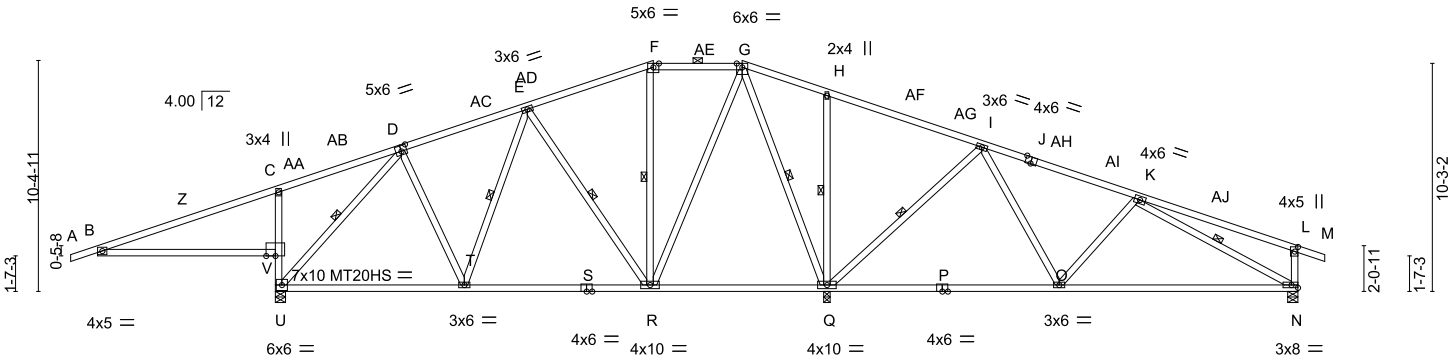
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	A2A	Hip	1	1	I76502399
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:23 2025 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-kqJt5OFLjxUXOjFsfWVUDUg?axy3u7CawjXIUiyc2Ng

-1-2-8	13-8-0	19-4-0	25-0-0	29-0-0	32-9-12	39-9-5	46-8-15	54-0-0	55-2-8
1-2-8	13-8-0	5-8-0	5-8-0	4-0-0	3-9-12	6-11-9	6-11-9	7-3-1	1-2-8

Scale = 1:103.6



8-0-0	16-6-0	25-0-0	32-9-12	43-3-2	54-0-0
8-0-0	8-6-0	8-6-0	7-9-12	10-5-6	10-8-14

Plate Offsets (X,Y)-- [D:0-3-0,0-3-0], [J:0-3-0,Edge], [L:0-2-8,0-1-12]

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	0.99	Vert(LL)	-0.26	N-O	>978	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.72	V-Y	>136	90	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.02	N	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.52	V-Y	>188	180	Weight: 328 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	A-D: 2x4 SP 1650F 1.5E
BOT CHORD	2x4 SP 1650F 1.5E *Except*
	B-V,S-U: 2x4 SP No.2
WEBS	2x4 SP No.3 *Except*
	C-U: 2x4 SP 2850F 2.3E

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): F-G, C-U. Except: 3-1-0 oc bracing: U-V
BOT CHORD	Rigid ceiling directly applied or 4-6-10 oc bracing.
WEBS	1 Row at midpt D-U, E-T, E-R, F-R, G-Q, H-Q, I-Q, K-N

REACTIONS. (size) U=0-5-8, Q=0-3-8, N=0-5-8
Max Horz U=183(LC 12)
Max Uplift U=-526(LC 8), Q=-329(LC 9), N=-164(LC 9)
Max Grav U=1962(LC 39), Q=2770(LC 33), N=780(LC 39)

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

TOP CHORD	B-C=-618/1054, C-D=-329/738, D-E=-541/161, E-F=-408/197, F-G=-315/217, G-H=0/674, H-I=-6/757, I-K=-641/150, U-V=-804/422, C-V=-665/318, L-N=-332/203
BOT CHORD	B-V=-925/648, T-U=-53/362, R-T=-48/518, O-Q=0/254, N-O=-122/728
WEBS	D-T=-104/501, D-U=-1447/407, E-R=-530/148, F-R=-298/101, G-R=-103/915, G-Q=-1271/136, H-Q=-588/226, I-Q=-1183/257, I-O=-20/682, K-O=-345/207, K-N=-705/114

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 16.0 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) U=526, Q=329, N=164.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

September 22,2025

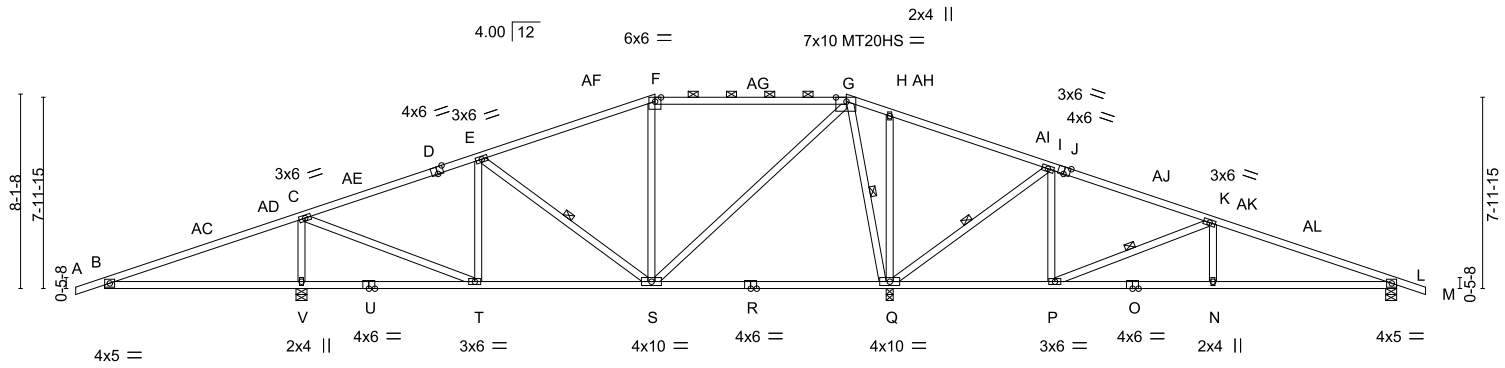
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	A3	Hip	1	1	I76502400
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:24 2025 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-C0tFJkFzUFcO?tq2DE1jmiDClKI?dcMj8NGr08yc2Nf

-1-2-8	8-2-12	15-7-6	23-0-0	31-0-0	32-9-12	39-6-13	46-3-14	54-0-0	55-2-8
1-2-8	8-2-12	7-4-10	7-4-10	8-0-0	1-9-12	6-9-1	6-9-1	7-8-2	1-2-8

Scale: 1/8"=1'



8-0-0	8-2-12	15-7-6	23-0-0	31-0-0	32-9-12	39-6-13	46-3-14	54-0-0
8-0-0	0-2-12	7-4-10	7-4-10	8-0-0	1-9-12	6-9-1	6-9-1	7-8-2

Plate Offsets (X,Y)-- [D:0-3-0,Edge], [G:0-5-4,Edge], [J: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	0.83	Vert(LL)	-0.19	Q-S	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.38	Q-S	>782	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	-0.02	Q	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	-0.08	T-V	>999	240	Weight: 286 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-9 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): F-G.
BOT CHORD Rigid ceiling directly applied or 4-0-8 oc bracing.
WEBS 1 Row at midpt E-S, G-Q, I-Q, K-P

REACTIONS. (size) V=0-5-8, Q=0-3-8, L=0-5-8
Max Horz V=135(LC 12)
Max Uplift V=-544(LC 8), Q=-333(LC 9), L=-170(LC 9)
Max Grav V=1903(LC 39), Q=2770(LC 39), L=726(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-661/1082, C-E=-637/133, E-F=-518/169, F-G=-433/194, G-H=0/1055, H-I=-46/1182, I-K=-261/133, K-L=-1223/246
BOT CHORD B-V=-948/689, T-V=-948/689, S-T=-79/523, Q-S=-748/238, N-P=-156/1111, L-N=-156/1111
WEBS C-V=-1665/612, C-T=-518/1562, E-T=-465/301, E-S=-376/76, F-S=-464/222, G-S=-119/1215, G-Q=-1280/225, H-Q=-567/181, I-Q=-1380/256, I-P=-6/615, K-P=-1117/214, K-N=0/313

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 38-7-10, Interior(1) 38-7-10 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 16.0 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) V=544, Q=333, L=170.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

September 22,2025

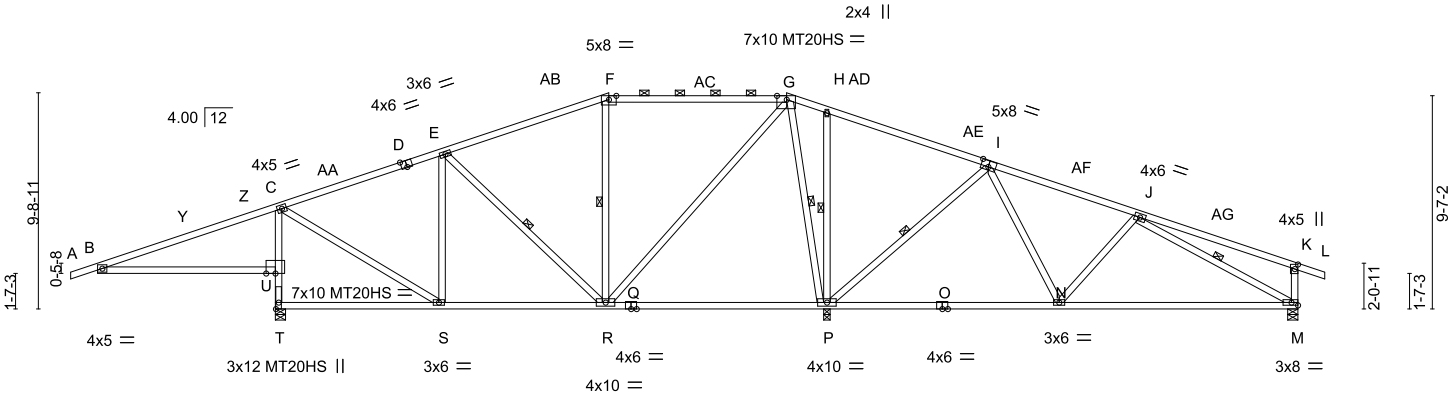
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	A3A	Hip	1	1	I76502401
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:25 2025 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-gDRdW4GbFZkFd1PFnxYylvmNYkeqM44sN10OYayc2Ne

-1-2-8	8-0-0	15-6-0	23-0-0	31-0-0	32-9-12	40-0-13	46-8-15	54-0-0	55-2-8
1-2-8	8-0-0	7-6-0	7-6-0	8-0-0	1-9-12	7-3-1	6-8-1	7-3-1	1-2-8

Scale = 1:103.6



8-0-0	15-6-0	23-0-0	32-9-12	43-3-2	54-0-0
8-0-0	7-6-0	7-6-0	9-9-12	10-5-6	10-8-14

Plate Offsets (X,Y)-- [D:0-3-0,Edge], [G:0-5-4,Edge], [I:0-4-0,0-3-4], [K:0-2-8,0-1-12]

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	0.89	Vert(LL)	-0.27	M-N	>946	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.71	U-X	>137	90	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.01	P	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.52	U-X	>189	180	Weight: 315 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP 1650F 1.5E *Except*
	F-G: 2x4 SP 2400F 2.0E
BOT CHORD	2x4 SP 1650F 1.5E *Except*
	B-U,O-Q: 2x4 SP No.2
WEBS	2x4 SP No.3 *Except*
	C-T: 2x4 SP 2850F 2.3E

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.): F-G, C-T. Except: 3-11-0 oc bracing: T-U
BOT CHORD	Rigid ceiling directly applied or 4-6-4 oc bracing.
WEBS	1 Row at midpt F-R, E-R, G-P, H-P, I-P, J-M

REACTIONS. (size) T=0-5-8, P=0-3-8, M=0-5-8
Max Horz T=172(LC 12)
Max Uplift T=-535(LC 8), P=-339(LC 9), M=-169(LC 9)
Max Grav T=1960(LC 39), P=2631(LC 39), M=797(LC 39)

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

TOP CHORD	B-C=-620/1063, C-E=-569/148, E-F=-504/184, F-G=-418/221, G-H=0/649, H-I=0/792, I-J=-662/160, T-U=-1906/741, C-U=-1772/639, K-M=-332/205
BOT CHORD	B-U=-927/650, S-T=-667/553, R-S=-59/475, P-R=-458/254, N-P=0/307, M-N=-127/767
WEBS	F-R=-475/213, E-R=-289/90, E-S=-493/275, C-S=-395/1285, G-R=-118/1025, G-P=-1160/182, H-P=-618/203, I-P=-1231/259, I-N=-14/677, J-N=-371/197, J-M=-747/120

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 38-7-10, Interior(1) 38-7-10 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 16.0 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) T=535, P=339, M=169.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

September 22,2025

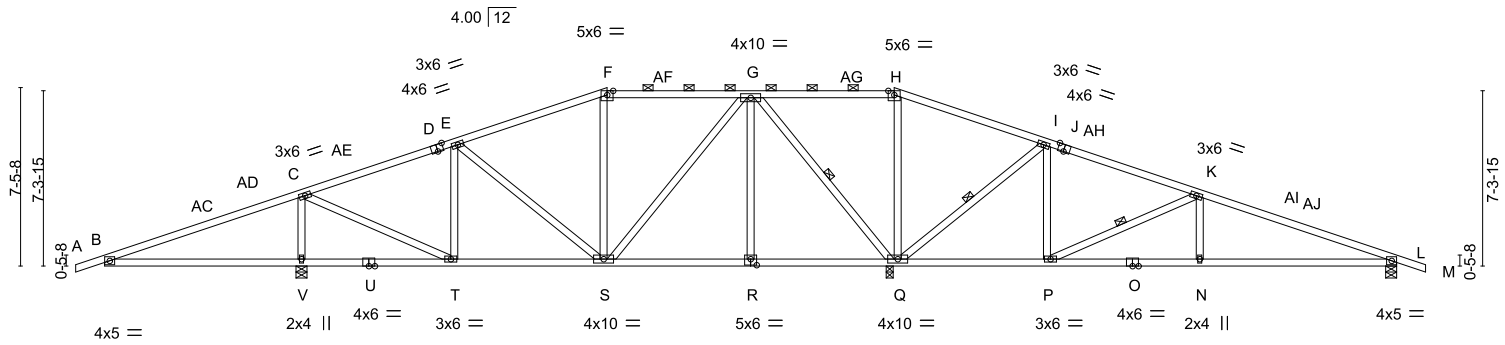
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	A4	Hip	1	1	I76502402
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:26 2025 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-8P?0kQHE0ss6FBzRLf3Br7IWr8zP5W_0chly41yc2Nd

-1-2-8	8-2-12	14-7-6	21-0-0	27-0-0	33-0-0	39-4-10	45-9-4	54-0-0	55-2-8
1-2-8	8-2-12	6-4-10	6-4-10	6-0-0	6-0-0	6-4-10	6-4-10	8-2-12	1-2-8

Scale: 1/8"=1'



8-0-0	8-2-12	14-7-6	21-0-0	27-0-0	32-11-8	33-0-0	39-4-10	45-9-4	54-0-0
8-0-0	0-2-12	6-4-10	6-4-10	6-0-0	5-11-8	0-0-8	6-4-10	6-4-10	8-2-12

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

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	0.99	Vert(LL)	-0.15	N-AB	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.29	N-AB	>868	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	-0.01	Q	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.10	N-AB	>999	240	Weight: 290 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	A-D,J-M: 2x4 SP 1650F 1.5E
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 (2-2-0 max.): F-H.
BOT CHORD	Rigid ceiling directly applied or 3-3-12 oc bracing.
WEBS	1 Row at midpt G-Q, I-Q, K-P

REACTIONS. (size) V=0-5-8, Q=0-3-8, L=0-5-8
Max Horz V=-122(LC 13)
Max Uplift V=-546(LC 8), Q=-350(LC 9), L=-167(LC 9)
Max Grav V=1948(LC 39), Q=2605(LC 39), L=769(LC 33)

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

TOP CHORD	B-C=-656/1148, C-E=-543/113, E-F=-538/175, F-G=-490/194, G-H=0/1013, H-I=-51/1161, I-K=-251/169, K-L=-1279/244
BOT CHORD	B-V=-976/685, T-V=-976/685, S-T=-53/453, R-S=-289/357, Q-R=-289/357, N-P=-149/1144, L-N=-149/1144
WEBS	C-V=-1711/614, C-T=-502/1497, E-T=-531/321, F-S=-316/155, G-S=-67/720, G-Q=-1335/221, H-Q=-713/205, I-Q=-1404/268, I-P=-12/681, K-P=-1184/215, K-N=0/319

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 16.0 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) V=546, Q=350, L=167.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

September 22,2025

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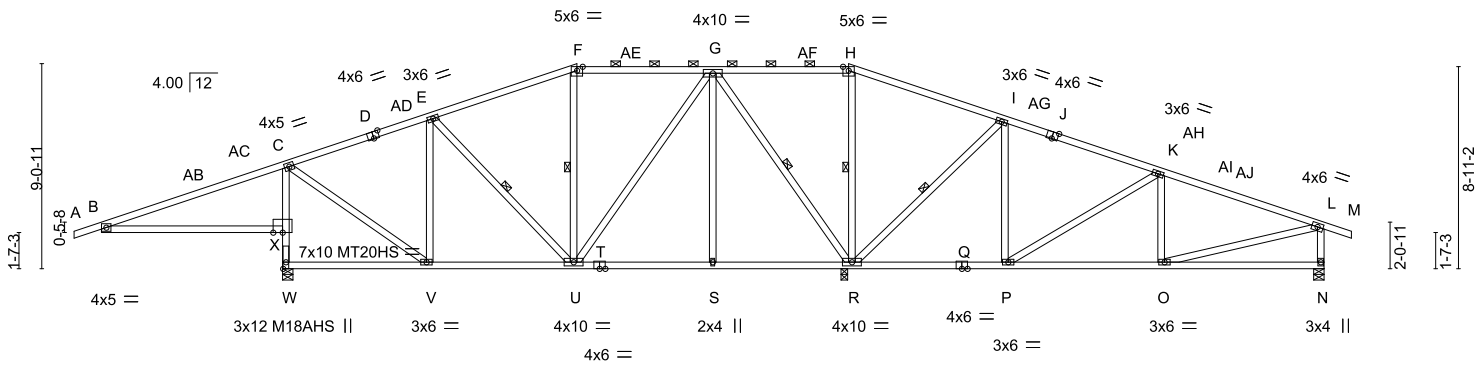
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	A4A	Hip	1	1	I76502403
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:28 2025 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-4n7m95JUXU6qUU7qS45fwYOtZyfwZNgJ3?E39vyc2Nb

-1-2-8	4-2-9	8-0-0	14-6-0	21-0-0	27-0-0	33-0-0	39-10-13	46-9-11	54-0-0	55-2-8
1-2-8	4-2-9	3-9-7	6-6-0	6-6-0	6-0-0	6-0-0	6-10-13	6-10-13	7-2-5	1-2-8

Scale = 1:101.8



8-0-0	14-6-0	21-0-0	27-0-0	32-11-8	33-0-0	39-10-13	46-9-11	54-0-0
8-0-0	6-6-0	6-6-0	6-0-0	5-11-8	0-0-8	6-10-13	6-10-13	7-2-5

Plate Offsets (X,Y)-- [D:0-3-0,Edge], [J: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	0.91	Vert(LL)	-0.07	V-W	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.73	X-AA	>135	90	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.01	N	n/a	n/a	M18AHS	186/179
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.52	X-AA	>188	180	Weight: 328 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E *Except*
F-H: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
C-W: 2x4 SP 2850F 2.3E

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.): F-H, C-W. Except:
3-8-0 oc bracing: W-X
BOT CHORD Rigid ceiling directly applied or 4-2-6 oc bracing.
WEBS 1 Row at midpt E-U, F-U, G-R, H-R, I-R

REACTIONS. (size) W=0-5-8, N=0-5-8, R=0-3-8
Max Horz W=160(LC 12)
Max Uplift W=-532(LC 8), N=-160(LC 9), R=-368(LC 9)
Max Grav W=1971(LC 39), N=812(LC 33), R=2542(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-620/1108, C-E=-468/129, E-F=-462/179, F-G=-418/199, G-H=0/730, H-I=-10/865, I-K=-369/120, K-L=-935/154, W-X=-1942/744, C-X=-1802/642, L-N=-746/212
BOT CHORD B-X=-945/651, V-W=-691/554, U-V=-36/358, S-U=-158/302, R-S=-158/302, P-R=-24/271, O-P=-99/826
WEBS C-V=-386/1232, E-V=-534/279, F-U=-318/152, G-U=-79/628, G-R=-1228/210, H-R=-636/198, I-R=-1321/267, I-P=0/602, K-P=-714/148, L-O=-59/743

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 16.0 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) W=532, N=160, R=368.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

September 22,2025

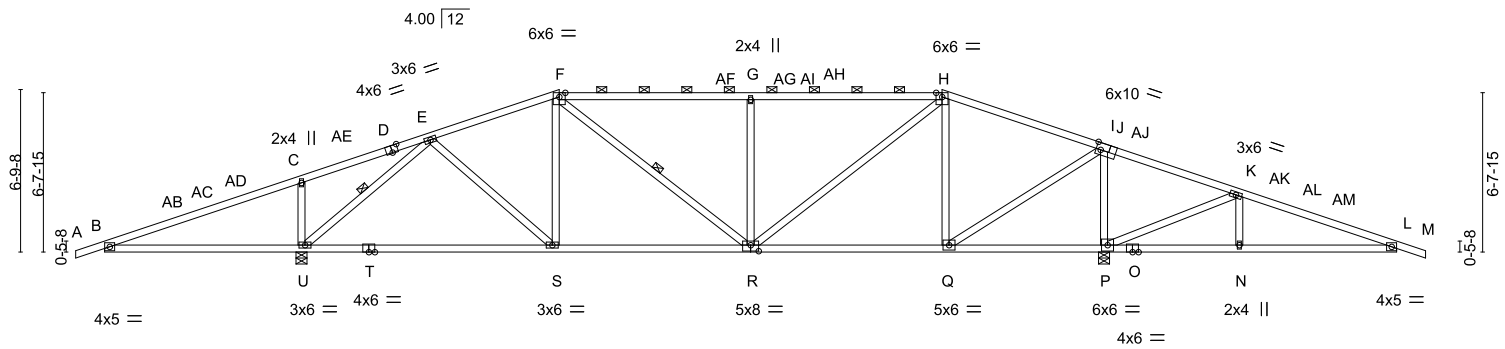
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	A5	Hip	1	1	I76502404
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:29 2025 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-Y_h8MRJ6InEh6ei00ncuTlw0QLzLIo5SIf_chMyc2Na

-1-2-8	8-2-12	13-7-6	19-0-0	27-0-0	35-0-0	41-9-4	47-5-1	54-0-0	55-2-8
1-2-8	8-2-12	5-4-10	5-4-10	8-0-0	8-0-0	6-9-4	5-7-13	6-6-15	1-2-8

Scale: 1/8"=1'



8-0-0	8-2-12	19-0-0	27-0-0	35-0-0	41-9-4	42-0-0	47-5-1	54-0-0
8-0-0	0-2-12	10-9-4	8-0-0	8-0-0	6-9-4	0-2-12	5-5-1	6-6-15

Plate Offsets (X,Y)-- [D:0-3-0,Edge], [J:0-2-4,Edge], [R:0-4-0,0-3-0]

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	0.96	Vert(LL)	-0.22	S-U	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.43	S-U	>942	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.03	P	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	-0.13	S-U	>999	240	Weight: 278 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E *Except* F-H: 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP 1650F 1.5E *Except* O-R,R-T: 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (5-2-7 max.): F-H.
BOT CHORD Rigid ceiling directly applied or 3-11-15 oc bracing.
WEBS 1 Row at midpt E-U, F-R

REACTIONS. (size) U=0-5-8, P=0-5-8
Max Horz U=111(LC 12)
Max Uplift U=-594(LC 8), P=-766(LC 9)
Max Grav U=2304(LC 39), P=2927(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-683/1233, C-E=-574/1162, E-F=-1425/205, F-G=-1726/287, G-H=-1726/287, H-I=-806/220, I-K=-918/2079, K-L=-536/1009
BOT CHORD B-U=-1045/709, S-U=-79/814, R-S=-76/1346, Q-R=-102/851, P-Q=-1888/1006, N-P=-859/566, L-N=-859/566
WEBS C-U=-737/261, E-U=-2032/629, E-S=-95/744, F-S=-290/202, F-R=-166/484, G-R=-920/304, H-R=-325/1236, H-Q=-1012/486, I-Q=-714/2256, I-P=-2354/818, K-P=-1114/477, K-N=-138/278

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 16.0 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) U=594, P=766.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

September 22,2025

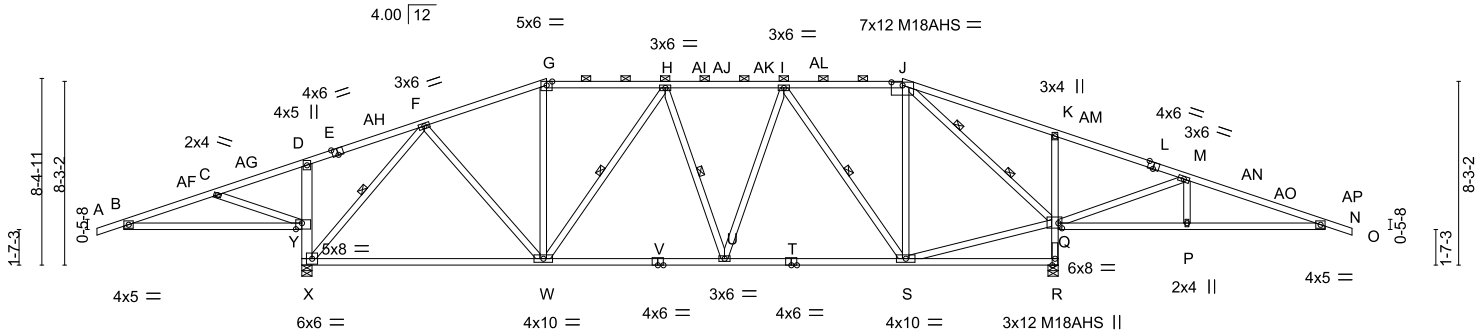
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	A5A	Hip	1	1	I76502405
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:30 2025 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-0AEWanKk35MYjoHCaV77?yTBzlHX1FkcXJj9Doyc2NZ

-1-2-8	13-6-0	19-0-0	24-4-0	29-8-0	35-0-0	42-0-0	47-9-7	54-0-0	55-2-8
1-2-8	13-6-0	5-6-0	5-4-0	5-4-0	5-4-0	7-0-0	5-9-7	6-2-9	1-2-8

Scale = 1:103.6



8-0-0	19-0-0	27-0-0	35-0-0	42-0-0	47-9-7	54-0-0
8-0-0	11-0-0	8-0-0	8-0-0	7-0-0	5-9-7	6-2-9

Plate Offsets (X,Y)-- [E:0-3-0,Edge], [J:0-6-0,0-1-11], [L:0-3-0,Edge], [Q:0-2-0,0-2-12], [Y:0-3-4,0-3-4]

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)	-0.32	W-X	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.67	W-X	>603	240	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.04	R	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.06	W-X	>999	240	Weight: 325 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* J-L,L-O: 2x4 SP 1650F 1.5E
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* D-X: 2x6 SP No.1, K-R: 2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-10 max.): G-J, D-X, K-R. Except: 2-2-0 oc bracing: X-Y 3-3-0 oc bracing: Q-R
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt F-X, H-W, H-U, I-S; 2 Rows at 1/3 pts J-Q

REACTIONS. (size) X=0-5-8, R=0-5-8
Max Horz X=227(LC 12)
Max Uplift X=-590(LC 8), R=-759(LC 9)
Max Grav X=2311(LC 39), R=2920(LC 39)

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

TOP CHORD	B-C=-460/713, C-D=-685/1361, D-F=-367/886, F-G=-1155/208, G-H=-1078/221, H-I=-1293/241, I-J=-607/174, J-K=-809/2032, K-M=-913/2075, M-N=-514/942, X-Y=-929/384, D-Y=-602/207, Q-R=-2825/936, K-Q=-697/223
BOT CHORD	B-Y=-617/469, W-X=-136/613, U-W=-140/1346, S-U=-122/1190, P-Q=-800/542, N-P=-800/542
WEBS	F-W=-71/784, F-X=-1718/469, H-W=-478/115, I-U=-81/470, I-S=-1034/253, J-S=-195/975, Q-S=-30/721, M-P=-128/291, M-Q=-1154/488, J-Q=-2572/862, C-Y=-686/301

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 3-11-12, Interior(1) 3-11-12 to 11-4-6, Exterior(2R) 11-4-6 to 26-7-10, Interior(1) 26-7-10 to 35-0-0, Exterior(2E) 35-0-0 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 16.0 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) X=590, R=759.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

September 22,2025

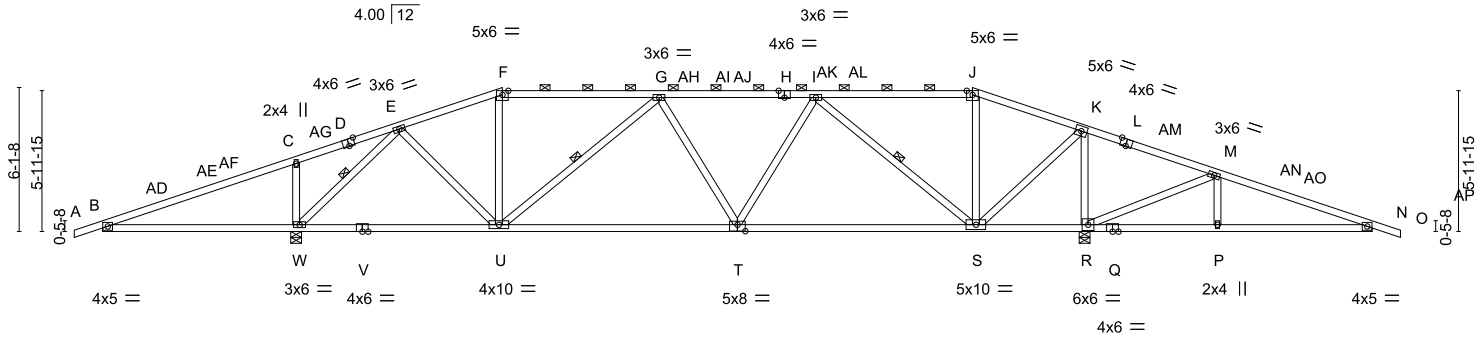
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	A6	Hip	1	1	I76502406
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:31 2025 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-VMovn7LMqPVPLysO7CfMYA0Ml9g2miAllzTjmEyc2NY

-1-2-8	8-2-12	12-7-6	17-0-0	23-8-0	30-4-0	37-0-0	41-9-4	47-5-1	54-0-0	55-2-8
1-2-8	8-2-12	4-4-10	4-4-10	6-8-0	6-8-0	6-8-0	4-9-4	5-7-13	6-6-15	1-2-8

Scale = 1:98.0



8-0-0	8-2-12	17-0-0	27-0-0	37-0-0	41-9-4	42-0-0	47-5-1	54-0-0
8-0-0	0-2-12	8-9-4	10-0-0	10-0-0	4-9-4	0-2-12	5-5-1	6-6-15

Plate Offsets (X,Y)-- [D:0-3-0,Edge], [H:0-3-0,Edge], [L:0-3-0,Edge], [T: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	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.22	S-T	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.43	S-T	>939	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.06	R	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.09	T-U	>999	240	Weight: 276 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): F-J.
BOT CHORD Rigid ceiling directly applied or 4-7-14 oc bracing.
WEBS 1 Row at midpt E-W, G-U, I-S

REACTIONS. (size) W=0-5-8, R=0-5-8
Max Horz W=100(LC 12)
Max Uplift W=-600(LC 8), R=-775(LC 9)
Max Grav W=2267(LC 39), R=2880(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-667/1399, C-E=-553/1287, E-F=-1471/184, F-G=-1397/198, G-I=-1965/261, I-J=-556/669, J-K=-609/776, K-M=-927/2295, M-N=-533/1129
BOT CHORD B-W=-1193/692, U-W=-42/762, T-U=-143/2047, S-T=-142/1758, R-S=-2105/1021, P-R=-963/560, N-P=-963/560
WEBS C-W=-771/274, E-W=-1945/538, E-U=-145/934, G-U=-852/196, G-T=-279/186, I-T=-42/615, I-S=-1617/387, J-S=-520/289, K-S=-631/2164, K-R=-2299/776, M-R=-1237/499, M-P=-123/289

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 49-9-11, 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 16.0 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) W=600, R=775.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

September 22,2025

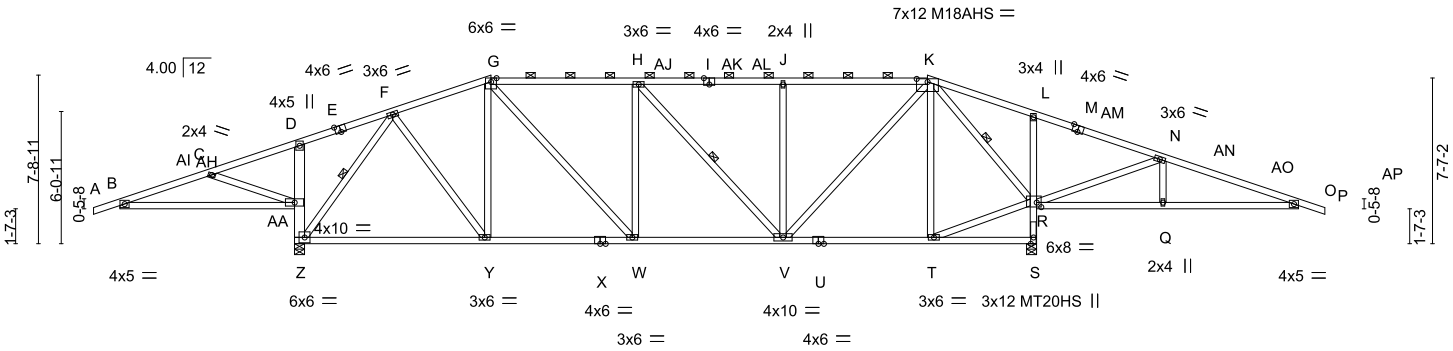
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	A6A	Hip	1	1	I76502407
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:32 2025 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-zZMH_TM_bidFz6RbhvAb4NYYRZ1IV8Mu_dCGIhyc2NX

-1-2-8	4-2-9	8-0-0	12-6-0	17-0-0	23-7-7	30-4-9	37-0-0	42-0-0	47-9-7	54-0-0	55-2-8
1-2-8	4-2-9	3-9-7	4-6-0	4-6-0	6-7-7	6-9-3	6-7-7	5-0-0	5-9-7	6-2-9	1-2-8

Scale = 1:105.6



8-0-0	17-0-0	23-7-7	30-4-9	37-0-0	42-0-0	47-9-7	54-0-0
8-0-0	9-0-0	6-7-7	6-9-3	6-7-7	5-0-0	5-9-7	6-2-9

Plate Offsets (X,Y)-- [E:0-3-0,Edge], [I:0-3-0,Edge], [K:0-6-0,0-1-11], [M:0-3-0,Edge], [R:0-2-8,0-2-8]

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	0.91	Vert(LL)	-0.14	Y-Z	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.31	Y-Z	>999	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.04	S	n/a	n/a	M18AHS	186/179
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.05	V-W	>999	240	Weight: 326 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E *Except*
G-I,I-K: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
D-Z: 2x6 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 (2-2-0 max.): G-K, D-Z, L-S. Except:
2-9-0 oc bracing: R-S
6-0-0 oc bracing: Z-AA
BOT CHORD Rigid ceiling directly applied or 4-10-5 oc bracing.
WEBS 1 Row at midpt F-Z, H-V, K-R

REACTIONS. (size) Z=0-5-8, S=0-5-8
Max Horz Z=216(LC 12)
Max Uplift Z=-596(LC 8), S=-768(LC 9)
Max Grav Z=2274(LC 39), S=2873(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-459/789, C-D=-687/1527, D-F=-367/986, F-G=-1160/195, G-H=-1630/267, H-J=-1406/257, J-K=-1409/259, K-L=-840/2233, L-N=-921/2274, N-O=-510/1063, Z-AA=-934/379, D-AA=-577/201, R-S=-2811/885, L-R=-572/184
BOT CHORD B-AA=-669/468, Y-Z=-103/547, W-Y=-122/1108, V-W=-156/1627, T-V=-492/586, Q-R=-907/538, O-Q=-907/538
WEBS C-AA=-773/305, F-Z=-1680/405, F-Y=-131/968, G-Y=-588/202, G-W=-145/776, H-W=-455/197, H-V=-400/128, J-V=-693/194, K-V=-269/1443, K-T=-86/326, R-T=-470/607, K-R=-2545/848, N-R=-1251/503, N-Q=-127/290

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 3-11-12, Interior(1) 3-11-12 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 16.0 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) Z=596, S=768.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

September 22,2025

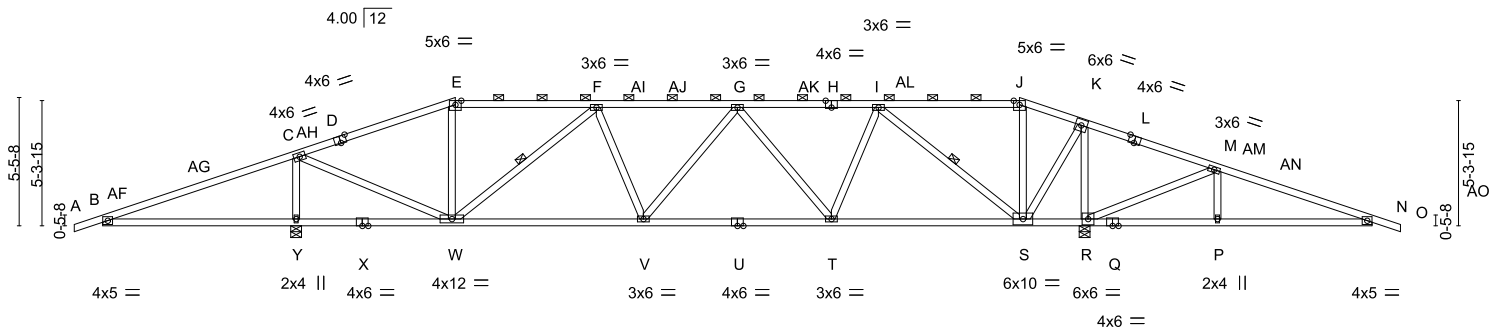
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	A7	Hip	1	1	I76502408
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:33 2025 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-RlwfCpMdM0l6aF0nFdhqdb5jOzJIEcP2DHyqq7yc2NW

-1-2-8 8-2-12 15-0-0 21-0-0 27-0-0 33-0-0 39-0-0 41-9-4 47-5-1 54-0-0 55-2-8
1-2-8 8-2-12 6-9-4 6-0-0 6-0-0 6-0-0 6-0-0 2-9-4 5-7-13 6-6-15 1-2-8

Scale = 1:98.0



8-0-0 8-2-12 15-0-0 23-0-0 31-0-0 39-0-0 41-9-4 42-0-0 47-5-1 54-0-0
8-0-0 0-2-12 6-9-4 8-0-0 8-0-0 8-0-0 2-9-4 0-2-12 5-5-1 6-6-15

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	0.90	Vert(LL)	-0.21	V-W	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.36	V-W	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.07	R	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.09	V-W	>999	240	Weight: 277 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
A-D,L-O: 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2 *Except*
B-X,N-Q: 2x4 SP 1650F 1.5E
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (3-1-10 max.): E-J.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt F-W, I-S

REACTIONS. (size) Y=0-5-8, R=0-5-8
Max Horz Y=89(LC 12)
Max Uplift Y=-604(LC 8), R=-782(LC 9)
Max Grav Y=2247(LC 29), R=2838(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-646/1601, C-E=-1431/147, E-F=-1322/166, F-G=-2388/272, G-I=-1969/271, I-J=-506/1403, J-K=-560/1512, K-M=-943/2541, M-N=-529/1351
BOT CHORD B-Y=-1380/670, W-Y=-1380/670, V-W=-158/2317, T-V=-196/2396, S-T=-489/1690, R-S=-2344/1042, P-R=-1171/555, N-P=-1171/555
WEBS C-Y=-1963/633, C-W=-428/2095, E-W=-329/209, F-W=-1290/249, F-V=-47/295, G-V=-40/307, G-T=-686/232, I-T=-89/847, I-S=-2093/432, J-S=-623/297, K-S=-557/2103, K-R=-2279/741, M-R=-1270/527, M-P=-120/286

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 49-9-11, 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 16.0 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) Y=604, R=782.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

September 22,2025

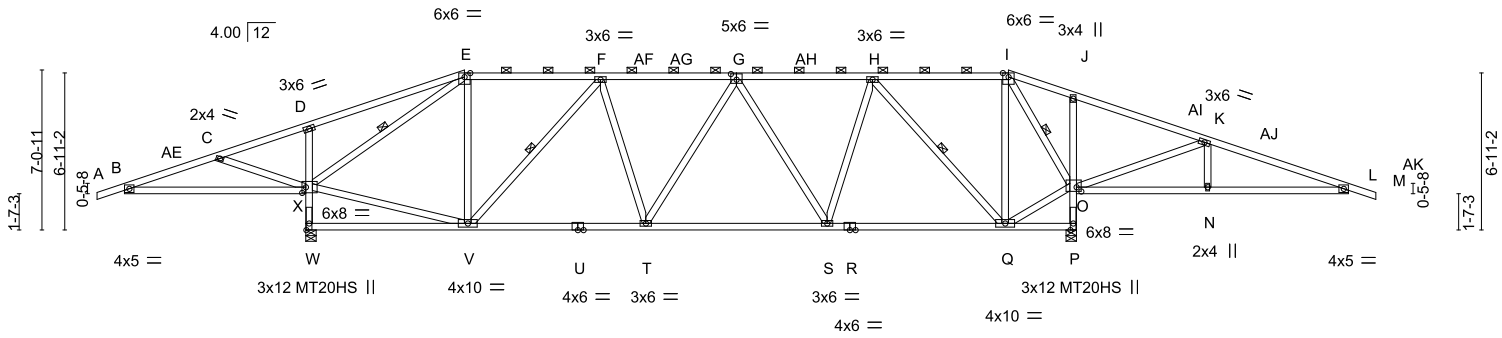
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	A7A	Hip	1	1	I76502409
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:34 2025 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-vxU1P9NF7KtzCPbzpKC3AoeveMhVz2XBRxhNMZyc2NV

-1-2-8	4-2-9	8-0-0	15-0-0	21-0-0	27-0-0	33-0-0	39-0-0	42-0-0	47-9-7	54-0-0	55-2-8
1-2-8	4-2-9	3-9-7	7-0-0	6-0-0	6-0-0	6-0-0	6-0-0	3-0-0	5-9-7	6-2-9	1-2-8

Scale = 1:101.6



8-0-0	15-0-0	23-0-0	31-0-0	39-0-0	42-0-0	47-9-7	54-0-0
8-0-0	7-0-0	8-0-0	8-0-0	8-0-0	3-0-0	5-9-7	6-2-9

Plate Offsets (X,Y)-- [G:0-3-0,0-3-0], [O:0-2-8,0-2-4], [X:0-2-0,0-3-0]

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	0.87	Vert(LL)	-0.16	S-T	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.27	S-T	>999	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.06	P	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.06	T	>999	240	Weight: 321 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP 1650F 1.5E *Except* E-G,G-I: 2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-4 max.): E-I, D-W, J-P. Except: 2-8-0 oc bracing: W-X, O-P
BOT CHORD	Rigid ceiling directly applied or 4-3-8 oc bracing.
WEBS	1 Row at midpt E-X, F-V, H-Q, I-O

REACTIONS. (size) W=0-5-8, P=0-5-8
Max Horz W=204(LC 12)
Max Uplift W=-598(LC 8), P=-776(LC 9)
Max Grav W=2246(LC 29), P=2837(LC 39)

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

TOP CHORD	B-C=-475/1055, C-D=-670/1702, D-E=-583/1652, E-F=-1079/183, F-G=-1838/251, G-H=-1524/245, H-I=-342/1000, I-J=-856/2443, J-K=-928/2518, K-L=-509/1286, W-X=-2141/634, D-X=-634/210, O-P=-2834/867, J-O=-504/162
BOT CHORD	B-X=-921/484, T-V=-183/1786, S-T=-200/1846, Q-S=-339/1313, N-O=-1117/536, L-N=-1117/536
WEBS	C-X=-664/264, V-X=0/1113, E-X=-2192/569, E-V=-61/772, F-V=-1073/199, F-T=-49/272, G-T=-29/273, G-S=-625/207, H-S=-83/818, H-Q=-1766/338, I-Q=-451/1506, O-Q=-1098/660, I-O=-2672/917, K-O=-1278/515, K-N=-125/288

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 3-11-12, Interior(1) 3-11-12 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 16.0 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) W=598, P=776.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

September 22,2025

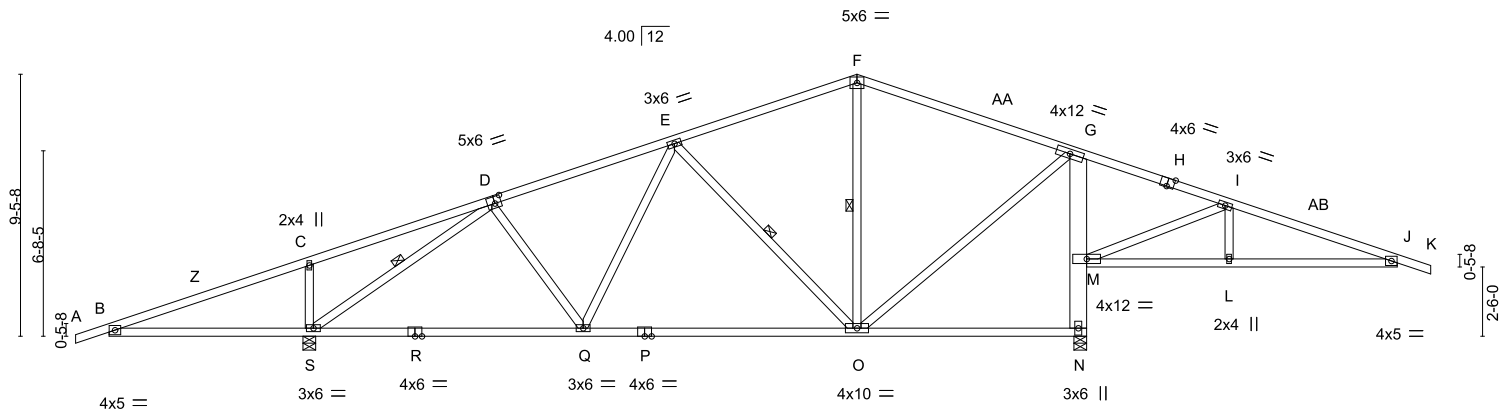
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	B1	Roof Special	3	1	I76502410
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:35 2025 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-N82PdVOtud?qqZAAM2jli0A3pm17iaYLgbRwv?yc2NU

-1-2-8	7-2-12	13-9-13	20-4-15	27-0-0	31-1-12	35-3-8	40-5-3	46-6-1	47-8-9
1-2-8	7-2-12	6-7-1	6-7-1	6-7-1	4-1-12	4-1-12	5-1-11	6-0-14	1-2-8

Scale = 1:83.2



7-0-0	7-2-12	17-1-6	27-0-0	31-1-12	35-3-8	40-5-3	46-6-1
7-0-0	0-2-12	9-10-10	9-10-10	4-1-12	4-1-12	5-1-11	6-0-14

Plate Offsets (X,Y)-- [D:0-2-12,0-3-0], [H: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	0.91	Vert(LL)	-0.14	O-Q	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.55	L-Y	>253	90		
TCDL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.02	N	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	-0.09	Q-S	>999	240	Weight: 252 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
F-H: 2x4 SP 1650F 1.5E
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
G-N: 2x8 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals. Except:
6-0-0 oc bracing: M-N
BOT CHORD Rigid ceiling directly applied or 5-4-3 oc bracing.
WEBS 1 Row at midpt D-S, E-O, F-O

REACTIONS. (size) N=0-5-8, S=0-5-8
Max Horz S=283(LC 12)
Max Uplift N=-632(LC 9), S=-493(LC 8)
Max Grav N=2351(LC 2), S=1819(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-621/951, C-D=-521/927, D-E=-883/185, E-F=-488/162, F-G=-430/175, G-I=-877/1669, I-J=-508/853, M-N=-2243/839, G-M=-1831/626
BOT CHORD B-S=-827/645, Q-S=-268/683, O-Q=-233/764, N-O=-910/681, L-M=-745/535, J-L=-745/535
WEBS C-S=-479/250, D-S=-1806/444, D-Q=0/277, E-O=-581/194, F-O=-281/210, G-O=-316/1423, I-M=-874/463, I-L=-112/263

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 3-5-5, Interior(1) 3-5-5 to 27-0-0, Exterior(2E) 27-0-0 to 31-7-13, Interior(1) 31-7-13 to 43-0-12, Exterior(2E) 43-0-12 to 47-8-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=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 16.0 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) N=632, S=493.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

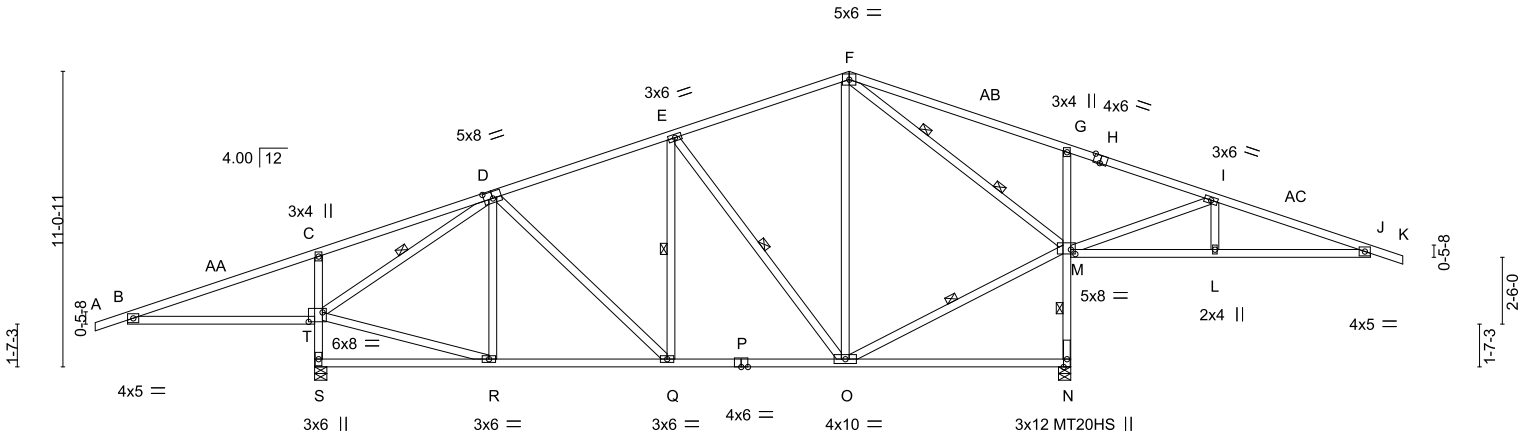
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	B1A	Roof Special	3	1	I76502411
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:36 2025 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-rKcoqqPVfx7hSjkMwlEXFDjDRAQfRzaUvFAURSyc2NT

1-2-8	7-0-0	13-8-0	20-4-0	27-0-0	35-3-8	40-8-3	46-6-1	47-8-9
1-2-8	7-0-0	6-8-0	6-8-0	6-8-0	8-3-8	5-4-11	5-9-14	1-2-8

Scale = 1:86.2



7-0-0	13-8-0	20-4-0	27-0-0	35-3-8	40-8-3	46-6-1
7-0-0	6-8-0	6-8-0	6-8-0	8-3-8	5-4-11	5-9-14

Plate Offsets (X,Y)-- [D:0-4-0,0-3-0], [H:0-3-0,Edge], [M:0-2-0,0-2-0], [T:0-6-4,0-4-4]

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)	-0.13	N-O	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.28	N-O	>999	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.02	N	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.03	Q	>999	240	Weight: 289 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	F-H: 2x4 SP 1650F 1.5E
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except*
	G-N: 2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
	Except:
	3-7-0 oc bracing: S-T
	3-8-0 oc bracing: M-N
BOT CHORD	Rigid ceiling directly applied or 4-7-12 oc bracing.
WEBS	1 Row at midpt D-T, E-Q, E-O, M-O
	2 Rows at 1/3 pts F-M

REACTIONS. (size) S=0-5-8, N=0-5-8
Max Horz S=406(LC 12)
Max Uplift S=-476(LC 8), N=-624(LC 9)
Max Grav S=1826(LC 3), N=2343(LC 2)

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

TOP CHORD	B-C=-628/1025, C-D=-569/1068, D-E=-755/188, E-F=-459/163, F-G=-767/1622, G-I=-866/1636, I-J=-495/830, S-T=-1727/540, C-T=-461/233, M-N=-2214/828, G-M=-471/250
BOT CHORD	B-T=-905/654, R-S=-351/353, Q-R=-296/699, O-Q=-261/690, L-M=-729/524, J-L=-729/524
WEBS	R-T=0/585, D-T=-1826/530, E-O=-547/190, F-O=-162/602, I-M=-844/449, I-L=-130/278, M-O=-114/386, F-M=-2160/909

NOTES-

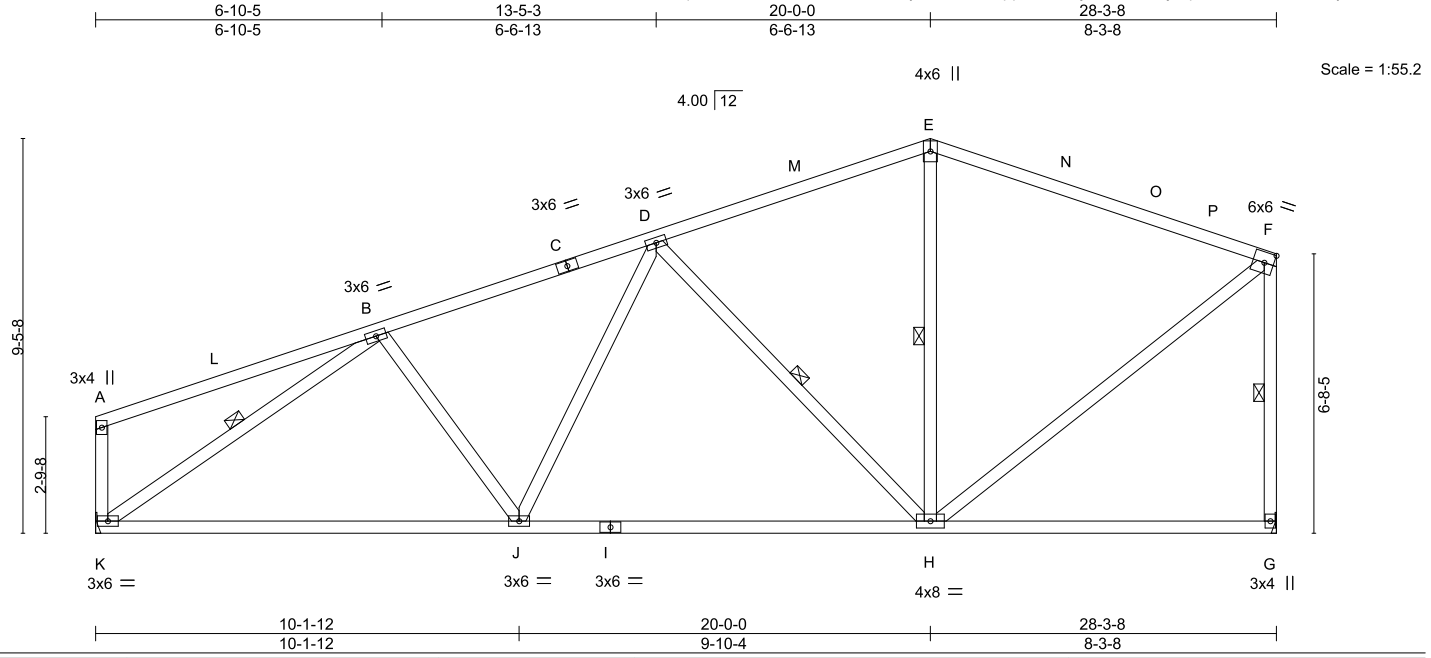
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-2-8 to 3-5-5, Interior(1) 3-5-5 to 27-0-0, Exterior(2E) 27-0-0 to 31-7-13, Interior(1) 31-7-13 to 43-0-12, Exterior(2E) 43-0-12 to 47-8-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=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 16.0 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) 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=476, N=624.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

September 22,2025

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

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	B2	Common	7	1	I76502412
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:36 2025 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-rKcoqqPVfx7hSjkMwlEXFDjHqAMzR3YUvFAURSyc2NT



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	0.76	Vert(LL)	-0.22	J-K	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.46	J-K	>737	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.04	G	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.05	H-J	>999	240	Weight: 172 lb	FT = 20%
BCDL	10.0											

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

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

REACTIONS. (size) K=Mechanical, G=Mechanical
Max Horz K=225(LC 9)
Max Uplift K=-178(LC 8), G=-143(LC 9)
Max Grav K=1223(LC 3), G=1190(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-1529/317, D-E=-938/304, E-F=-900/296, F-G=-1070/264
BOT CHORD J-K=-247/1324, H-J=-179/1281
WEBS D-J=0/321, D-H=-694/218, B-K=-1520/315, F-H=-101/1015

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 17-0-0, Exterior(2R) 17-0-0 to 23-0-0 , Interior(1) 23-0-0 to 25-1-12, Exterior(2E) 25-1-12 to 28-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 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=178, G=143.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	B2A	Common	7	1	I76502413
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:37 2025 Page 1
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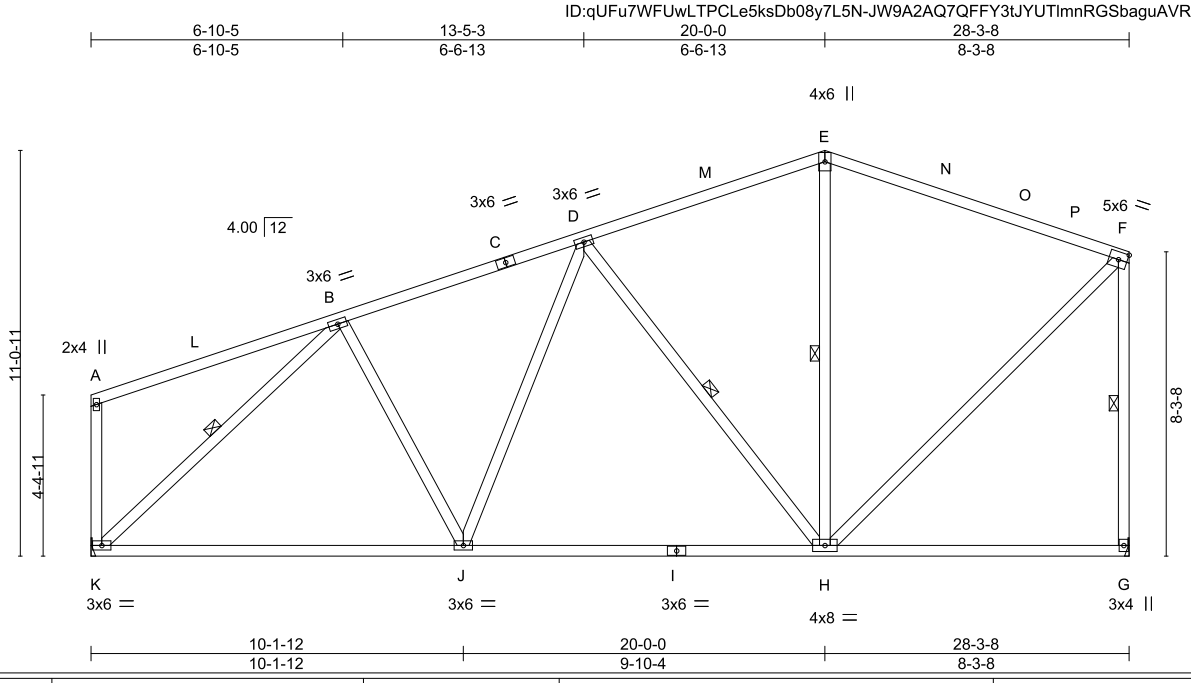

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.24	J-K	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.50	J-K	>678	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.03	G	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	-0.04	G-H	>999	240	Weight: 188 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* E-F: 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* F-G: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 1-4-12 oc bracing.
WEBS 1 Row at midpt D-H, E-H, B-K, F-G

REACTIONS. (size) K=Mechanical, G=Mechanical
Max Horz K=283(LC 11)
Max Uplift K=-179(LC 8), G=-158(LC 9)
Max Grav K=1223(LC 3), G=1190(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-1214/278, D-E=-811/303, E-F=-776/296, F-G=-1071/257
BOT CHORD J-K=-241/993, H-J=-193/1042
WEBS D-H=-588/200, B-K=-1307/296, F-H=-99/956

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 17-0-0, Exterior(2R) 17-0-0 to 23-0-0 , Interior(1) 23-0-0 to 25-1-12, Exterior(2E) 25-1-12 to 28-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 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=179, G=158.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	B3	Common	3	1	I76502414
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:37 2025 Page 1
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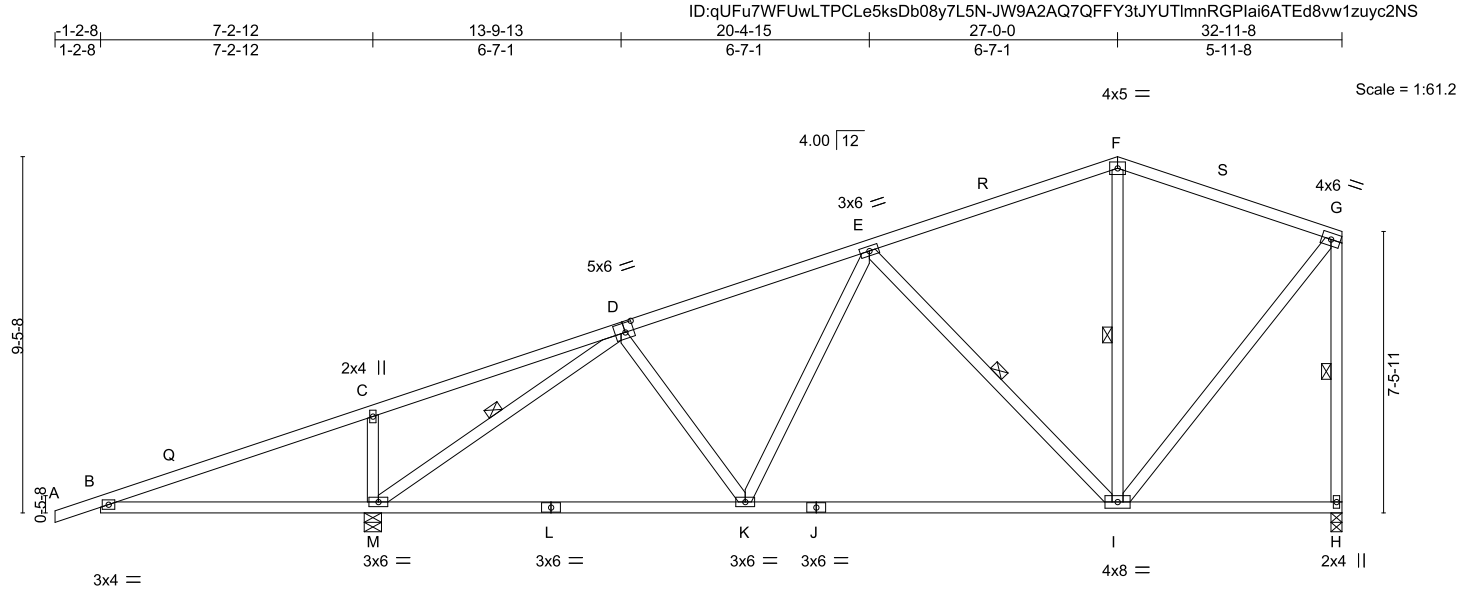

Plate Offsets (X,Y)-- [D:0-2-12,0-3-0]

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	0.91	Vert(LL)	-0.16	I-K	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.35	I-K	>878	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.03	H	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	-0.09	K-M	>999	240	Weight: 188 lb	FT = 20%
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 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 5-5-0 oc bracing: B-M.
WEBS 1 Row at midpt D-M, E-I, F-I, G-H

REACTIONS. (size) M=0-5-8, H=0-3-8
Max Horz M=289(LC 11)
Max Uplift M=-495(LC 8), H=-126(LC 9)
Max Grav M=1905(LC 3), H=991(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-613/951, C-D=-513/927, D-E=-1037/170, E-F=-643/225, F-G=-582/228, G-H=-923/185
BOT CHORD B-M=-826/637, K-M=-210/783, I-K=-172/903
WEBS C-M=-480/250, D-M=-1942/597, D-K=-20/323, E-I=-556/197, G-I=-83/840

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 2-1-1, Interior(1) 2-1-1 to 23-8-7, Exterior(2R) 23-8-7 to 29-6-3, Exterior(2E) 29-6-3 to 32-9-12 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 16.0 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) M=495, H=126.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	B3A	Roof Special	3	1	I76502415
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:38 2025 Page 1
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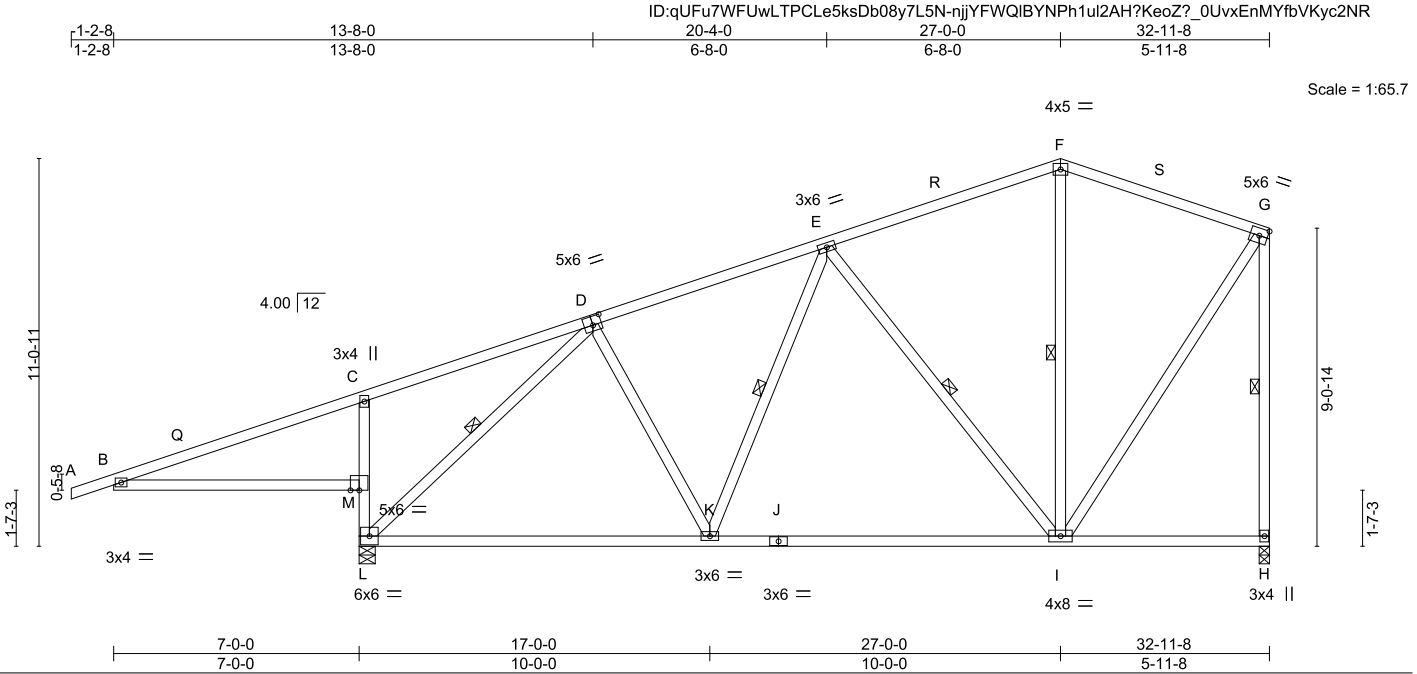

Plate Offsets (X,Y)-- [D:0-3-0,0-3-0]

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	0.97	Vert(LL)	-0.22	K-L	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.56	M-P	>153	90		
TCDL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.02	H	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.09	K-L	>999	240	Weight: 204 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
C-L: 2x4 SP 2400F 2.0E, G-H: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
Except:
2-2-0 oc bracing: L-M
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt F-I, E-I, E-K, D-L, G-H

REACTIONS. (size) L=0-5-8, H=0-3-8
Max Horz L=354(LC 9)
Max Uplift L=-483(LC 8), H=-146(LC 9)
Max Grav L=1899(LC 3), H=995(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-556/929, C-D=-275/615, D-E=-846/179, E-F=-563/244, F-G=-501/249, L-M=-703/393, C-M=-573/296, G-H=-925/191
BOT CHORD B-M=-815/584, K-L=-242/680, I-K=-192/752
WEBS E-I=-498/205, D-K=-29/425, D-L=-1528/408, G-I=-100/819

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 2-1-1, Interior(1) 2-1-1 to 23-8-7, Exterior(2R) 23-8-7 to 29-6-3, Exterior(2E) 29-6-3 to 32-9-12 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 16.0 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=483, H=146.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

September 22,2025

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

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	B4	Common	7	1	I76502416
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:38 2025 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-njjYFWQIBYNPh1ul2AH?KeobT_38vyAnMYfbVKyc2NR

-1-2-8	7-0-13	13-11-0	20-4-4	27-0-0	32-11-8
1-2-8	7-0-13	6-10-3	6-5-4	6-7-12	5-11-8

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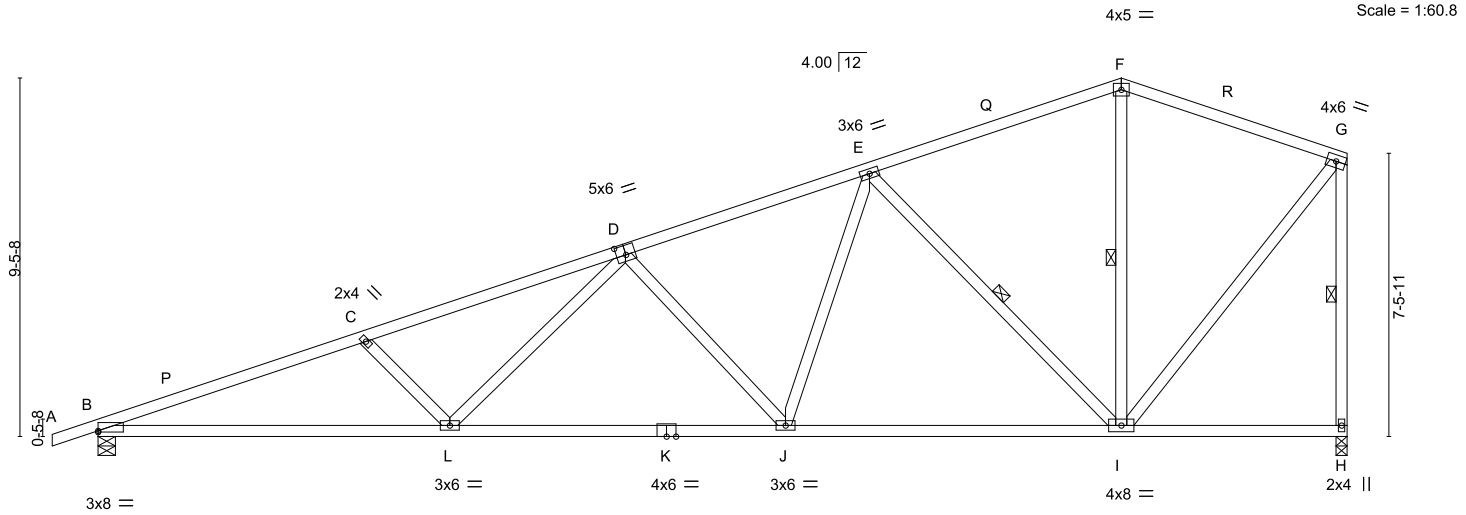

9-3-6	18-1-11	27-0-0	32-11-8
9-3-6	8-10-5	8-10-5	5-11-8

Plate Offsets (X,Y)-- [B:0-0-0,0-0-6], [D:0-3-0,0-3-0]

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	0.88	Vert(LL)	-0.25	J-L	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.48	J-L	>812	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.10	H	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.18	J-L	>999	240	Weight: 187 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-0-6 oc bracing.
WEBS 1 Row at midpt E-I, F-I, G-H

REACTIONS. (size) B=0-5-8, H=0-3-8
Max Horz B=289(LC 11)
Max Uplift B=-267(LC 8), H=-199(LC 8)
Max Grav B=1485(LC 3), H=1393(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-3420/579, C-D=-3170/524, D-E=-2095/425, E-F=-919/301, F-G=-859/304, G-H=-1319/299
BOT CHORD B-L=-622/3194, J-L=-427/2423, I-J=-237/1668
WEBS C-L=-412/217, D-L=-67/770, D-J=-745/248, E-J=-81/916, E-I=-1264/303, G-I=-156/1257

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 2-1-1, Interior(1) 2-1-1 to 23-8-7, Exterior(2R) 23-8-7 to 29-6-3, Exterior(2E) 29-6-3 to 32-9-12 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 16.0 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=267, H=199.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	B4A	Common	7	1	I76502417
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:39 2025 Page 1
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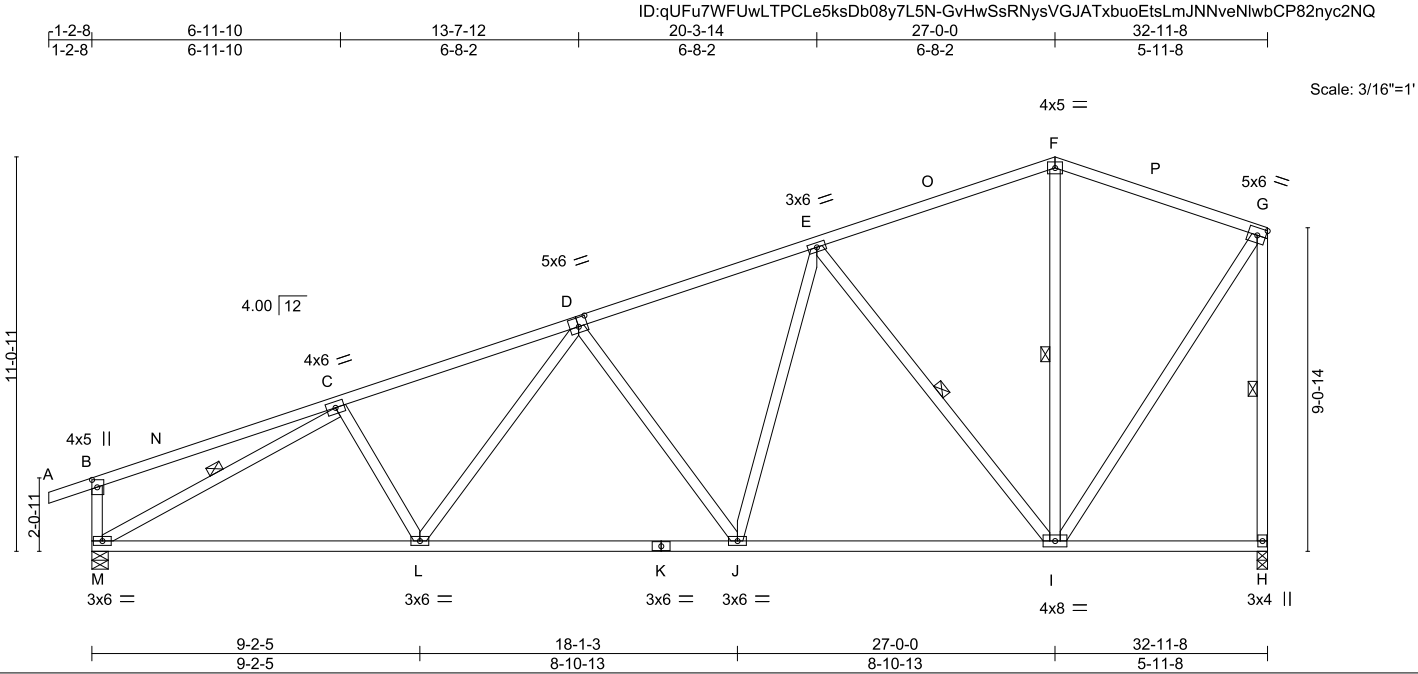

Plate Offsets (X,Y)-- [B:0-2-8,0-1-12], [D:0-3-0,0-3-0]

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	0.87	Vert(LL)	-0.16	L-M	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.34	L-M	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.07	H	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.09	J-L	>999	240	Weight: 217 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
K-M: 2x4 SP 1650F 1.5E
WEBS 2x4 SP No.3 *Except*
G-H: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt E-I, F-I, C-M, G-H

REACTIONS. (size) M=0-5-8, H=0-3-8
Max Horz M=349(LC 9)
Max Uplift M=-265(LC 8), H=-205(LC 8)
Max Grav M=1487(LC 3), H=1387(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-2128/398, D-E=-1665/384, E-F=-793/308, F-G=-731/313, B-M=-323/175, G-H=-1314/304
BOT CHORD L-M=-400/1904, J-L=-317/1814, I-J=-197/1350
WEBS D-L=-16/277, D-J=-516/212, E-J=-66/747, E-I=-1099/289, C-M=-2055/337, G-I=-152/1215

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 2-1-1, Interior(1) 2-1-1 to 23-8-7, Exterior(2R) 23-8-7 to 29-6-3, Exterior(2E) 29-6-3 to 32-9-12 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 16.0 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) M=265, H=205.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	C1	MONOPITCH SUPPORTED	1	1	I76502418
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:40 2025 Page 1
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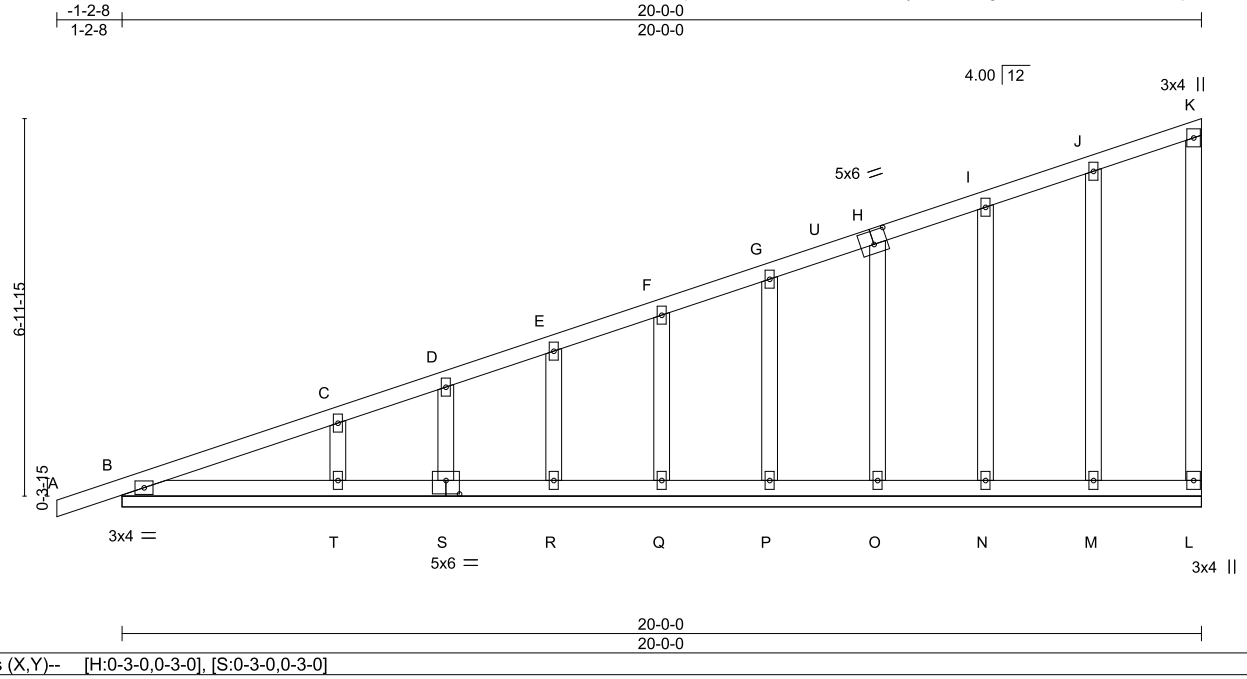

Plate Offsets (X,Y)-- [H:0-3-0,0-3-0], [S:0-3-0,0-3-0]

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	0.76	Vert(LL)	-0.00	A	n/r	120	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.22	Vert(CT)	0.01	A	n/r	90		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	L	n/a	n/a		
BCLL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 114 lb	FT = 20%
BCDL	10.0											

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 10-0-0 oc bracing.

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz B=290(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) L, B, M, N, O, P, Q, R, S, T
Max Grav All reactions 250 lb or less at joint(s) L, B, M, N, O, P, Q, R, S except T=328(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) -1-2-8 to 1-9-8, Exterior(2N) 1-9-8 to 16-10-4, Corner(3E) 16-10-4 to 19-10-4 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) This truss has been designed for greater of min roof live load of 16.0 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) L, B, M, N, O, P, Q, R, S, T.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D	I76502419
251334	C1A	MONOPITCH SUPPORTED	1	1	Job Reference (optional)	

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:40 2025 Page 1
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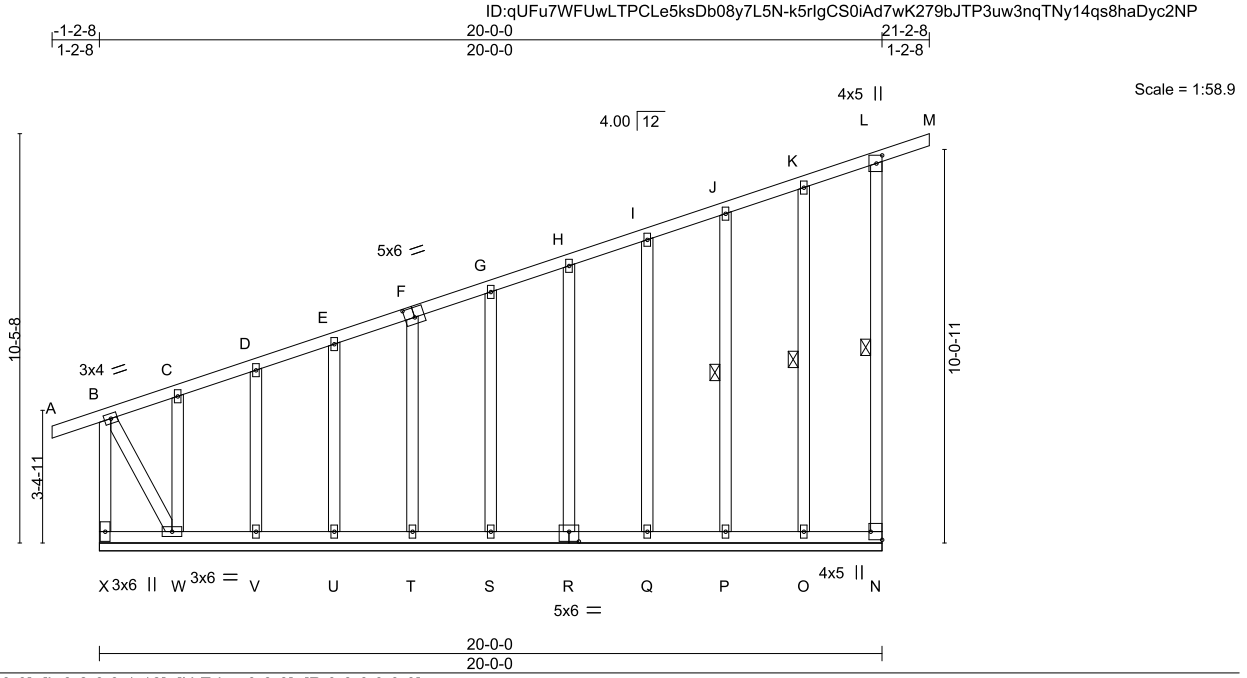

Plate Offsets (X,Y)-- [F:0-3-0,0-3-0], [L:0-2-8,0-1-12], [N:Edge,0-3-8], [R:0-3-0,0-3-0]

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	0.94	Vert(LL)	-0.01	M	n/r	120	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.02	M	n/r	90		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	-0.01	N	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 171 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* L-N: 2x4 SP No.2
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.
WEBS	1 Row at midpt L-N, K-O, J-P

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz X=421(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) N, O, P, Q, R, S, T, U, V except W=-529(LC 9)
Max Grav All reactions 250 lb or less at joint(s) O, P, Q, R, S, T, U, V, W except X=594(LC 9), N=253(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-X=-574/540, B-C=-277/264, C-D=-263/259
BOT CHORD W-X=-393/460
WEBS B-W=-597/605

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 18-0-0, Corner(3E) 18-0-0 to 21-2-8 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 16.0 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) N, O, P, Q, R, S, T, U, V except (jt=lb) W=529.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	C2	Monopitch	3	1	I76502420
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:41 2025 Page 1
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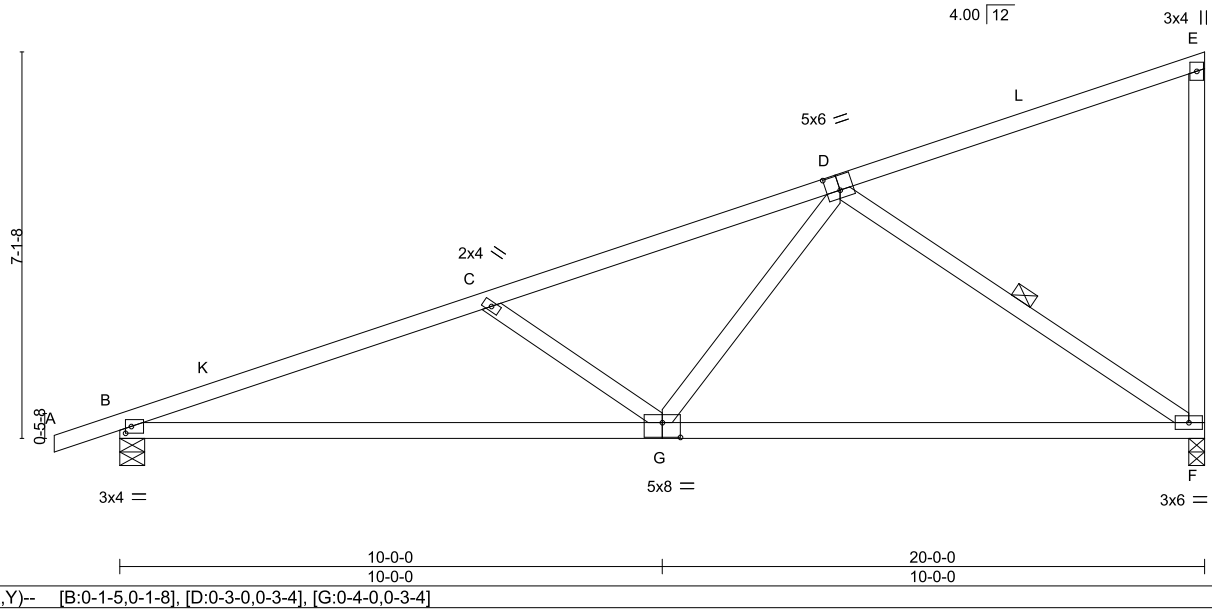

10-0-0 | 20-0-0
10-0-0 | 10-0-0

Plate Offsets (X,Y)-- [B:0-1-5,0-1-8], [D:0-3-0,0-3-4], [G: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	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.22	F-G	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.45	F-G	>533	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.04	F	n/a	n/a		
BCLL	10.0	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.06	G-J	>999	240	Weight: 98 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt D-F

REACTIONS. (size) B=0-5-8, F=0-3-8
Max Horz B=294(LC 11)
Max Uplift B=-177(LC 8), F=-170(LC 12)
Max Grav B=931(LC 3), F=966(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1789/314, C-D=-1468/220, E-F=-255/70
BOT CHORD B-G=-345/1656, F-G=-158/918
WEBS C-G=-457/226, D-G=-7/762, D-F=-1086/269

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 16-10-4, Exterior(2E) 16-10-4 to 19-10-4 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 greater of min roof live load of 16.0 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=177, F=170.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	C2A	MONOPITCH	3	1	I76502421
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:41 2025 Page 1
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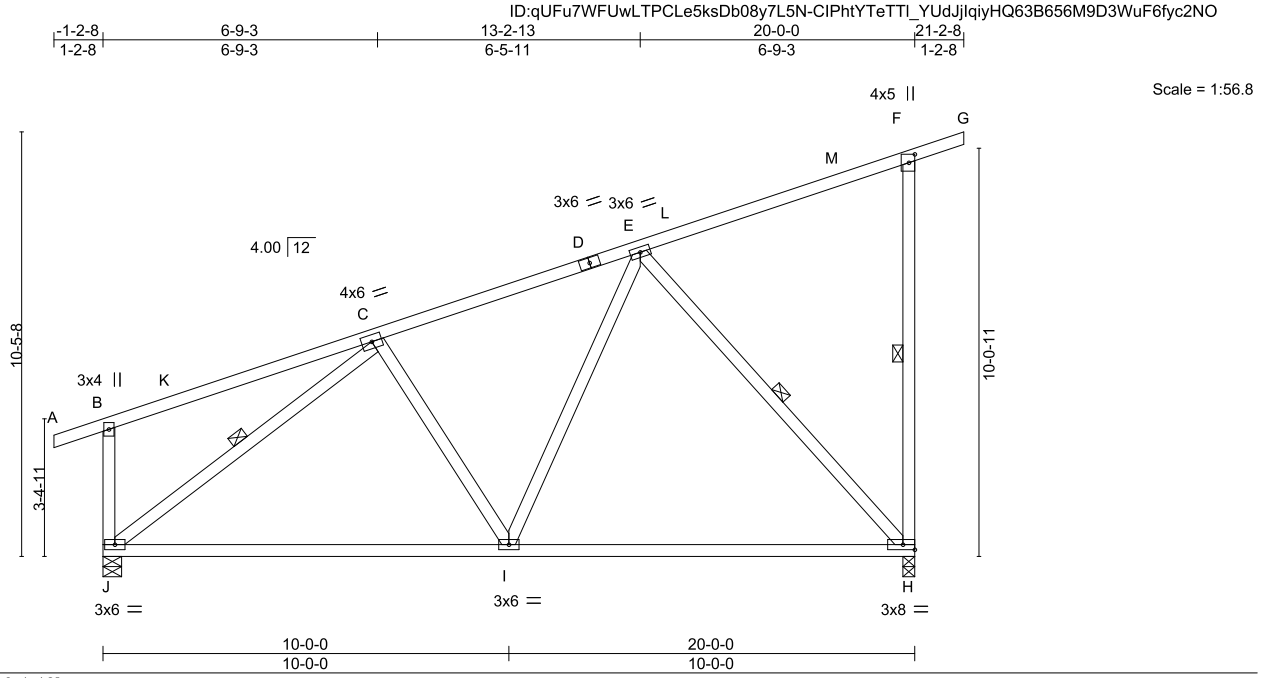

Plate Offsets (X,Y)-- [F:0-2-8,0-1-12]

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	0.86	Vert(LL)	-0.20	H-I	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.41	H-I	>577	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.02	H	n/a	n/a		
BCLL	10.0	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.08	H-I	>999	240	Weight: 130 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 1650F 1.5E
WEBS 2x4 SP No.3 *Except*
F-H: 2x4 SP No.2

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

REACTIONS. (size) H=0-3-8, J=0-5-8
Max Horz J=421(LC 9)
Max Uplift H=-220(LC 12), J=-161(LC 8)
Max Grav H=1066(LC 19), J=924(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-E=-798/164, F-H=-397/151, B-J=-289/164
BOT CHORD I-J=-258/714, H-I=-167/537
WEBS E-I=-19/462, E-H=-788/222, C-J=-853/146

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 18-2-8, Exterior(2E) 18-2-8 to 21-2-8 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 16.0 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=220, J=161.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	C3	Monopitch	7	1	I76502422
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:42 2025 Page 1
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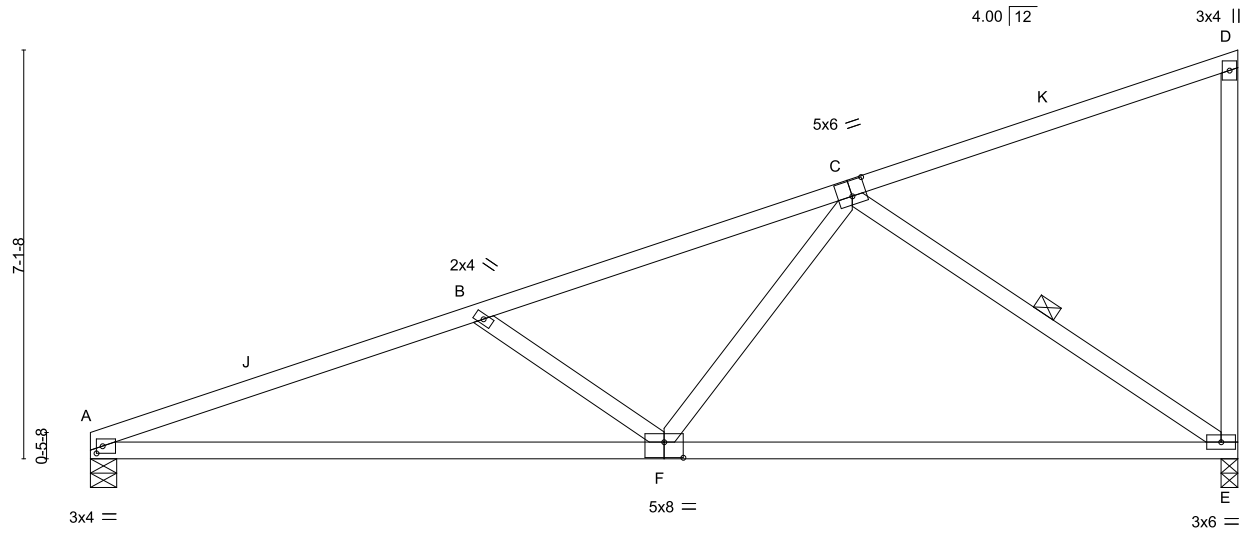

10-0-0 20-0-0
10-0-0 10-0-0

Plate Offsets (X,Y)-- [A:0-1-5,0-1-8], [C:0-3-0,0-3-4], [F: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	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.22	E-F	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.45	E-F	>535	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.04	E	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.07	F-I	>999	240	Weight: 96 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt C-E

REACTIONS. (size) A=0-5-8, E=0-3-8
Max Horz A=285(LC 11)
Max Uplift A=-127(LC 8), E=-171(LC 12)
Max Grav A=868(LC 3), E=964(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1788/332, B-C=-1474/232, D-E=-253/70
BOT CHORD A-F=-350/1665, E-F=-159/917
WEBS B-F=-464/228, C-F=-10/769, C-E=-1086/270

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 16-10-4, Exterior(2E) 16-10-4 to 19-10-4 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) except (jt=lb) A=127, E=171.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	C3A	MONOPITCH	7	1	I76502423
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:42 2025 Page 1
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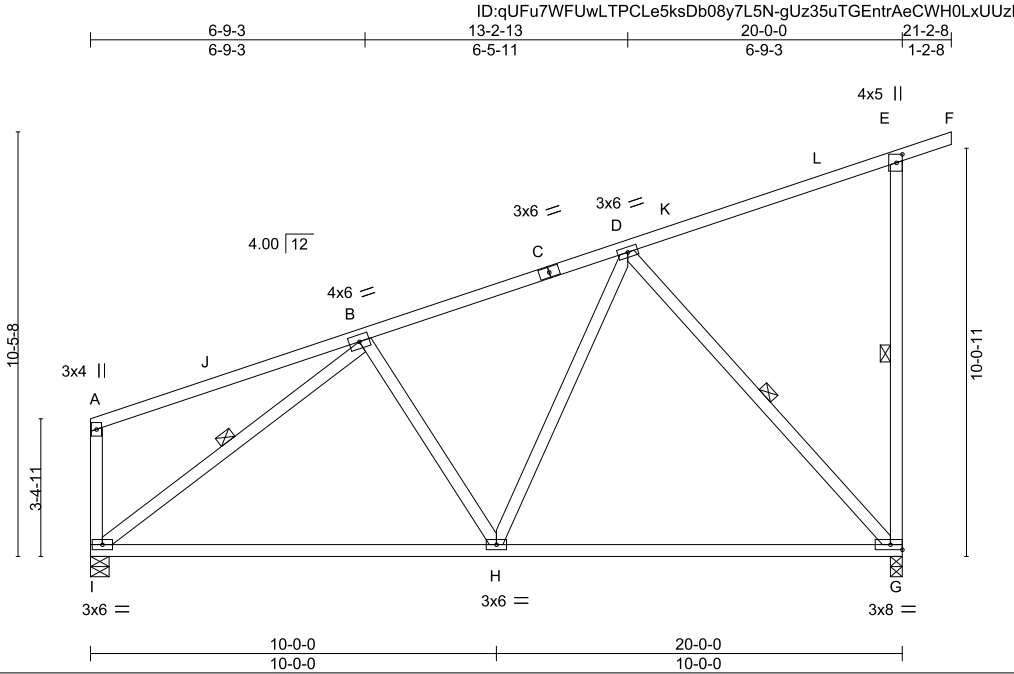

Plate Offsets (X,Y)-- [E:0-2-8,0-1-12]

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	0.86	Vert(LL)	-0.20	G-H	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.41	G-H	>577	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02	G	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.08	G-H	>999	240	Weight: 129 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 1650F 1.5E
WEBS 2x4 SP No.3 *Except*
E-G: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt E-G, D-G, B-I

REACTIONS. (size) G=0-3-8, I=0-5-8
Max Horz I=411(LC 9)
Max Uplift G=-219(LC 12), I=-108(LC 8)
Max Grav G=1055(LC 19), I=851(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-799/165, E-G=-391/151
BOT CHORD H-I=-256/720, G-H=-166/533
WEBS D-H=-19/469, D-G=-782/220, B-I=-862/174

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 18-2-8, Exterior(2E) 18-2-8 to 21-2-8 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 16.0 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=219, I=108.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	D1	MONOPITCH SUPPORTED	1	1	I76502424
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:43 2025 Page 1
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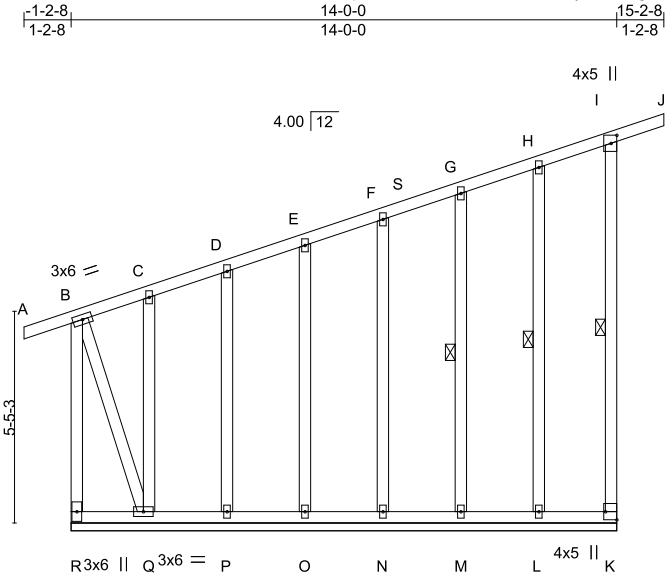

Plate Offsets (X,Y)-- [I:0-2-8,0-1-12], [K:Edge,0-3-8]

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	0.96	Vert(LL)	-0.00	I	n/r	120	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.02	J	n/r	90		
TCDL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	-0.00	K	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 140 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except*
	I-K: 2x4 SP No.2
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.
WEBS	1 Row at midpt I-K, H-L, G-M

REACTIONS. All bearings 14-0-0.
(lb) - Max Horz R=410(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) K, L, M, N, O, P except Q=-775(LC 9)
Max Grav All reactions 250 lb or less at joint(s) K, L, M, N, O, P, Q except R=826(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-R=-793/889, I-K=-233/256
BOT CHORD Q-R=-375/477
WEBS B-Q=-948/821

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 16.0 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) K, L, M, N, O, P except (jt=lb) Q=775.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	D2	JACK-CLOSED	1	1	I76502425
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:43 2025 Page 1
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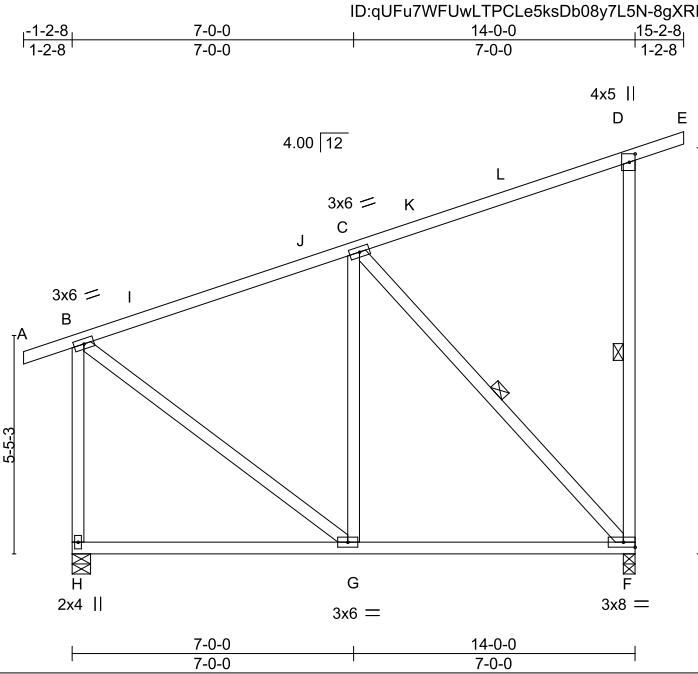

Plate Offsets (X,Y)-- [D:0-2-8,0-1-12]

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	0.87	Vert(LL)	-0.05	F-G	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.11	F-G	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	F	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	-0.05	F-G	>999	240	Weight: 106 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
D-F: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-3-6 oc bracing.
WEBS 1 Row at midpt D-F, C-F

REACTIONS. (size) H=0-5-8, F=0-3-8
Max Horz H=410(LC 9)
Max Uplift H=-128(LC 8), F=-214(LC 9)
Max Grav H=673(LC 25), F=793(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-H=-597/237, B-C=-422/85, D-F=-388/216
BOT CHORD G-H=-371/433, F-G=-192/453
WEBS B-G=-69/467, C-F=-489/172

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 10-11-9, Exterior(2R) 10-11-9 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 16.0 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=128, F=214.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	D3	MONOPITCH	4	1	I76502426
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:44 2025 Page 1
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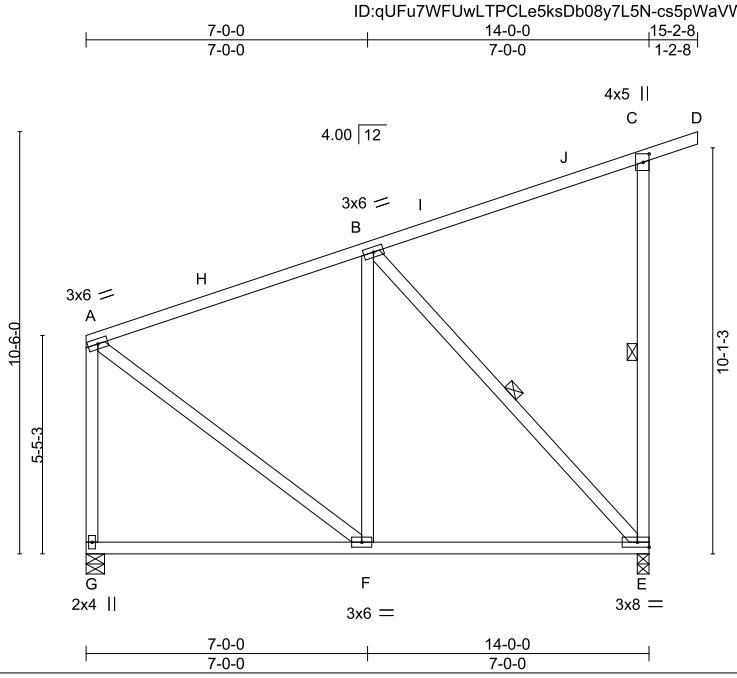

Plate Offsets (X,Y)-- [C:0-2-8,0-1-12]

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	0.87	Vert(LL)	-0.05	E-F	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.11	E-F	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	E	n/a	n/a		
BCLL	10.0	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.05	E-F	>999	240	Weight: 104 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
C-E: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-4-12 oc bracing.
WEBS 1 Row at midpt C-E, B-E

REACTIONS. (size) G=0-5-8, E=0-3-8
Max Horz G=401(LC 9)
Max Uplift G=-80(LC 8), E=-211(LC 9)
Max Grav G=618(LC 25), E=797(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-428/87, C-E=-386/160, A-G=-520/185
BOT CHORD F-G=-362/434, E-F=-190/456
WEBS B-E=-497/169, A-F=-103/466

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 16.0 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=lb) E=211.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	D4	MONOPITCH GIRDER	1	2	I76502427

Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:45 2025 Page 1
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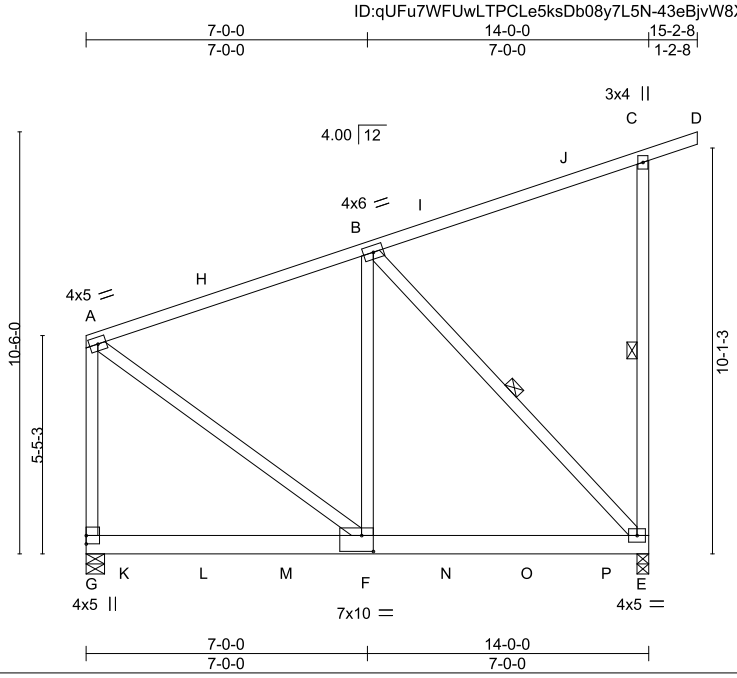

Plate Offsets (X,Y)-- [F:0-3-8,0-4-12]

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	0.84	Vert(LL)	-0.10	E-F	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.19	E-F	>846	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.01	E	n/a	n/a		
BCLL	10.0	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.09	E-F	>999	240	Weight: 229 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 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 10-0-0 oc bracing.
WEBS 1 Row at midpt C-E, B-E

REACTIONS. (size) G=0-5-8, E=0-3-8
Max Horz G=398(LC 9)
Max Uplift G=-675(LC 8), E=-801(LC 9)
Max Grav G=4655(LC 3), E=4810(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-2811/441, C-E=-390/162, A-G=-2922/536
BOT CHORD F-G=-368/439, E-F=-522/2623
WEBS B-F=-478/3315, B-E=-3816/646, A-F=-501/3187

NOTES-
1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) 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.
3) 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
4) 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
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
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) G=675, E=801.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1158 lb down and 176 lb up at 0-11-12, 1155 lb down and 178 lb up at 2-11-12, 1155 lb down and 178 lb up at 4-11-12, 1155 lb down and 178 lb up at 6-11-12, 1155 lb down and 178 lb up at 8-11-12, and 1155 lb down and 178 lb up at 10-11-12, and 1157 lb down and 177 lb up at 12-11-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

September 22,2025

LOAD CASE(S) Standard

Continued on 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=-1100(B) K=-1102(B) L=-1100(B) M=-1100(B) N=-1100(B) O=-1100(B) P=-1101(B)

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	E1	JACK-CLOSED SUPPORTE	1	1	I76502428
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:45 2025 Page 1
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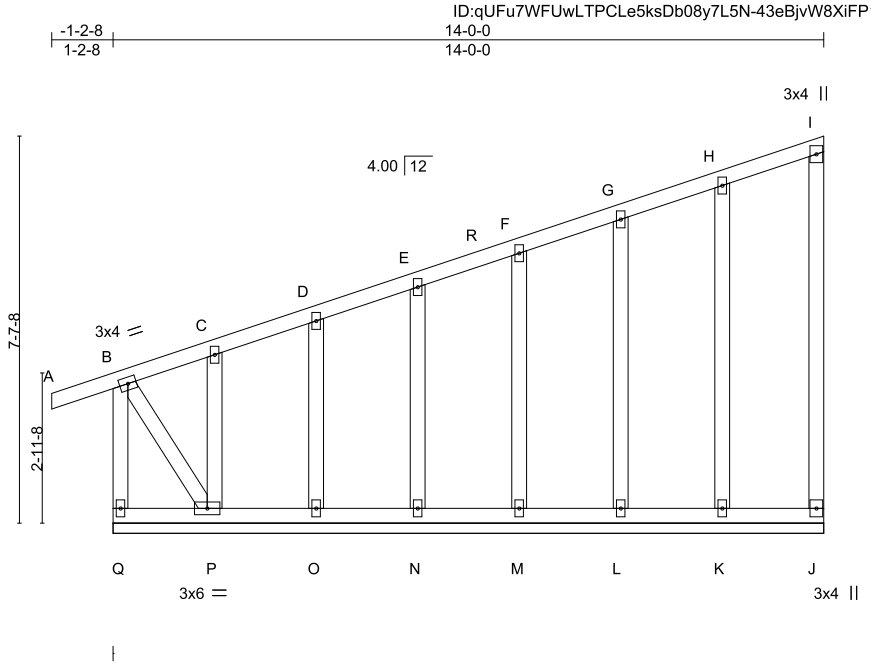

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	0.00	A	n/r	120	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.00	B	n/r	90		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	-0.00	J	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 106 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
I-J: 2x4 SP No.2
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 10-0-0 oc bracing, Except: 6-0-0 oc bracing: P-Q.

REACTIONS. All bearings 14-0-0.
(lb) - Max Horz Q=302(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) J, K, L, M, N, O except P=-318(LC 9)
Max Grav All reactions 250 lb or less at joint(s) J, K, L, M, N, O, P except Q=369(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-Q=-339/380
BOT CHORD P-Q=-286/378
WEBS B-P=-441/376

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 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) This truss has been designed for greater of min roof live load of 16.0 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) J, K, L, M, N, O except (jt=lb) P=318.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	E2	MONOPITCH	5	1	I76502429
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:46 2025 Page 1
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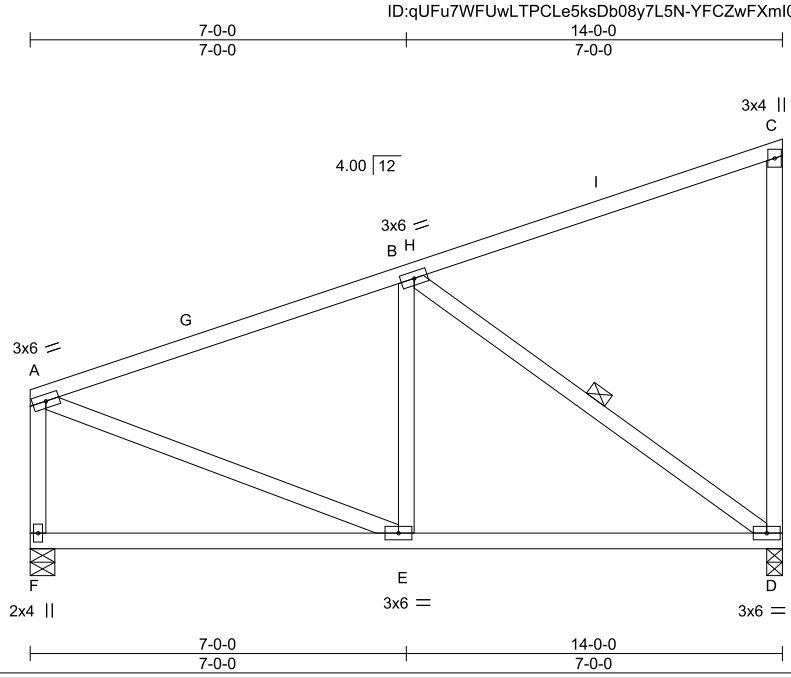

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.05	D-E	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.11	D-E	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	D	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.03	D-E	>999	240	Weight: 87 lb	FT = 20%
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 2-2-0 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) F=0-5-8, D=0-3-8
Max Horz F=293(LC 11)
Max Uplift F=-82(LC 8), D=-127(LC 12)
Max Grav F=616(LC 3), D=693(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-617/139, C-D=-256/73, A-F=-533/175
BOT CHORD E-F=-267/359, D-E=-146/545
WEBS B-D=-653/164, A-E=-101/539

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 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) F except (jt=lb) D=127.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	E3	ROOF SPECIAL GIRDER	1	2	I76502430

Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:46 2025 Page 1
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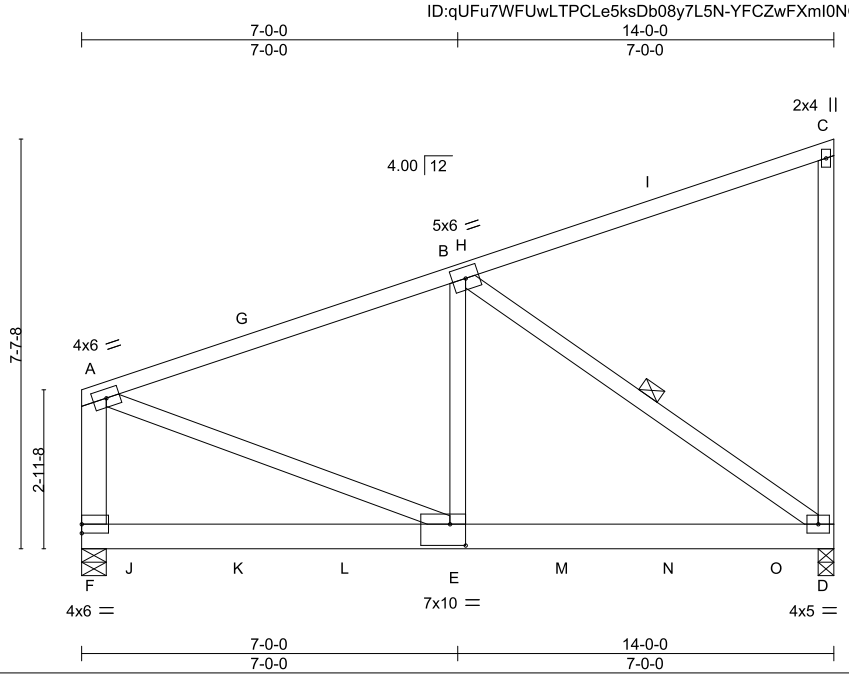

Plate Offsets (X,Y)-- [E:0-3-8,0-4-12]

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	0.57	Vert(LL)	-0.11	D-E	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.21	D-E	>761	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.01	D	n/a	n/a		
BCLL	10.0	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.09	D-E	>999	240	Weight: 199 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
A-F: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-4 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) F=0-5-8, D=0-3-8
Max Horz F=289(LC 9)
Max Uplift F=-629(LC 8), D=-665(LC 12)
Max Grav F=4695(LC 3), D=4696(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-4130/612, C-D=-259/76, A-F=-2809/482
BOT CHORD E-F=-309/463, D-E=-592/3874
WEBS B-E=-418/3639, B-D=-4708/710, A-E=-524/3757

NOTES-
1) 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.
2) 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.
3) 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 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
4) 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
5) Unbalanced snow loads have been considered for this design.
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) F=629, D=665.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1159 lb down and 161 lb up at 0-11-12, 1155 lb down and 163 lb up at 2-11-12, 1155 lb down and 163 lb up at 4-11-12, 1155 lb down and 163 lb up at 6-11-12, 1155 lb down and 163 lb up at 8-11-12, and 1155 lb down and 163 lb up at 10-11-12, and 1157 lb down and 162 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

September 22,2025

Continued on 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, D-F=-20
   Concentrated Loads (lb)
   Vert: E=-1100(F) J=-1102(F) K=-1100(F) L=-1100(F) M=-1100(F) N=-1100(F) O=-1101(F)

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	F1	Monopitch Supported Gable	1	1	I76502431
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:47 2025 Page 1
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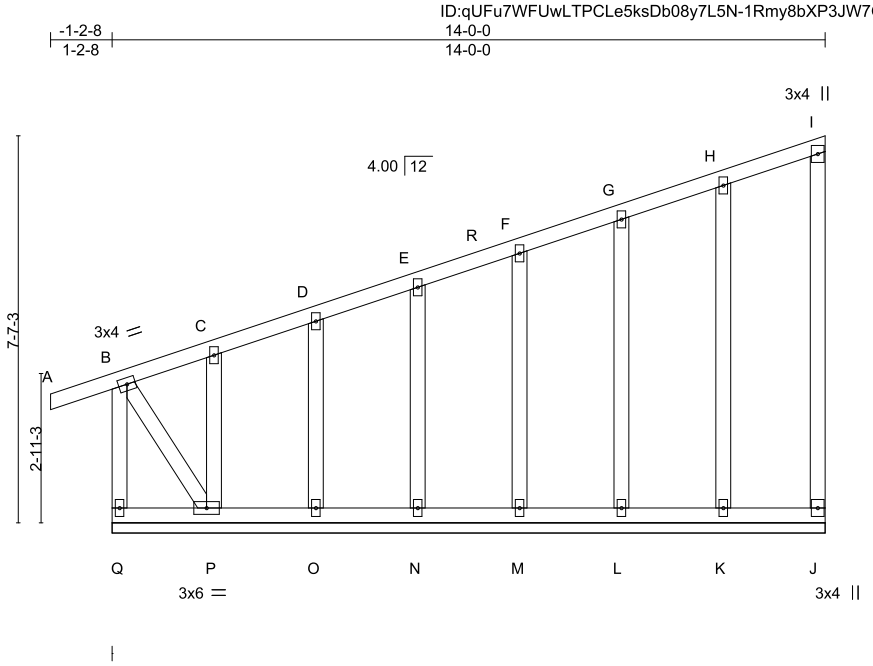

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	0.00	A	n/r	120	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.00	B	n/r	90		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	-0.00	J	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 105 lb	FT = 20%
BCDL	10.0											

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 10-0-0 oc bracing, Except: 6-0-0 oc bracing: P-Q.

REACTIONS. All bearings 14-0-0.
(lb) - Max Horz Q=301(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) J, K, L, M, N, O except P=-315(LC 9)
Max Grav All reactions 250 lb or less at joint(s) J, K, L, M, N, O, P except Q=366(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-Q=-336/375
BOT CHORD P-Q=-285/377
WEBS B-P=-436/373

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 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) This truss has been designed for greater of min roof live load of 16.0 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) J, K, L, M, N, O except (jt=lb) P=315.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	F2	Monopitch	3	1	I76502432
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:48 2025 Page 1
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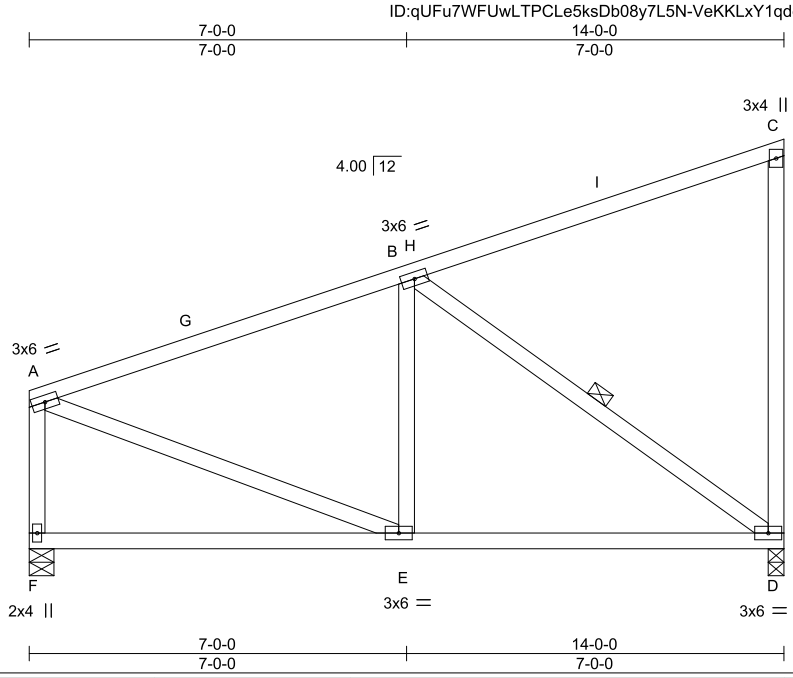

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.05	D-E	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.11	D-E	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	D	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.03	D-E	>999	240	Weight: 86 lb	FT = 20%
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 2-2-0 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) F=0-5-8, D=0-3-8
Max Horz F=292(LC 9)
Max Uplift F=-81(LC 8), D=-127(LC 12)
Max Grav F=616(LC 3), D=693(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-620/140, C-D=-256/74, A-F=-533/175
BOT CHORD E-F=-266/358, D-E=-145/547
WEBS B-D=-655/164, A-E=-100/541

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 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) F except (jt=lb) D=127.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	F3	Monopitch Girder	1	2	I76502433
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:48 2025 Page 1
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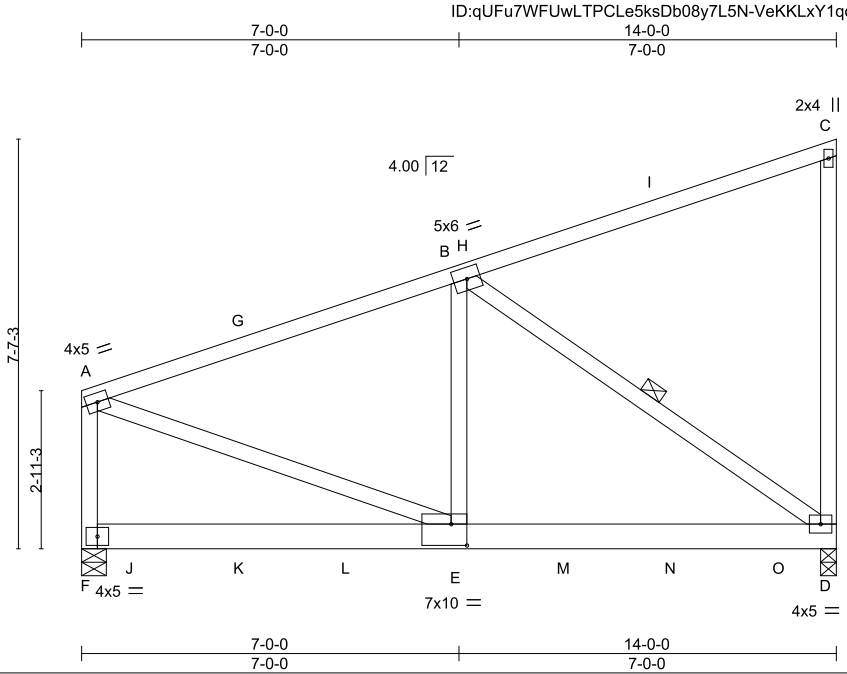

Plate Offsets (X,Y)-- [E:0-3-8,0-4-12]

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	0.65	Vert(LL)	-0.12	D-E	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.21	D-E	>766	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.01	D	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.09	D-E	>999	240	Weight: 195 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
A-F: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-3 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) F=0-5-8, D=0-3-8
Max Horz F=289(LC 9)
Max Uplift F=-750(LC 8), D=-792(LC 12)
Max Grav F=4790(LC 3), D=4842(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-4330/735, C-D=-259/75, A-F=-2960/563
BOT CHORD E-F=-296/421, D-E=-705/4063
WEBS B-E=-534/3819, B-D=-4931/851, A-E=-660/4108

NOTES-
1) 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: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) 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.
3) 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 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
4) 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
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) Bearing at joint(s) F 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 100 lb uplift at joint(s) except (jt=lb) F=750, D=792.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1191 lb down and 197 lb up at 0-11-12, 1188 lb down and 199 lb up at 2-11-12, 1188 lb down and 199 lb up at 4-11-12, 1188 lb down and 199 lb up at 6-11-12, 1188 lb down and 199 lb up at 8-11-12, and 1188 lb down and 199 lb up at 10-11-12, and 1191 lb down and 197 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

September 22,2025

Continued on 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, D-F=-20
   Concentrated Loads (lb)
   Vert: E=-1145(F) J=-1146(F) K=-1145(F) L=-1145(F) M=-1145(F) N=-1145(F) O=-1146(F)

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	FL1	Flat Girder	2	2	I76502434

Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:49 2025 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-zquiZHZfbxmrVjEsB_zaGzlSMPpE_uZPumqgOByc2NG

5-9-3	11-4-9	17-0-0	22-7-7	28-2-13	34-0-0
5-9-3	5-7-7	5-7-7	5-7-7	5-7-7	5-9-3

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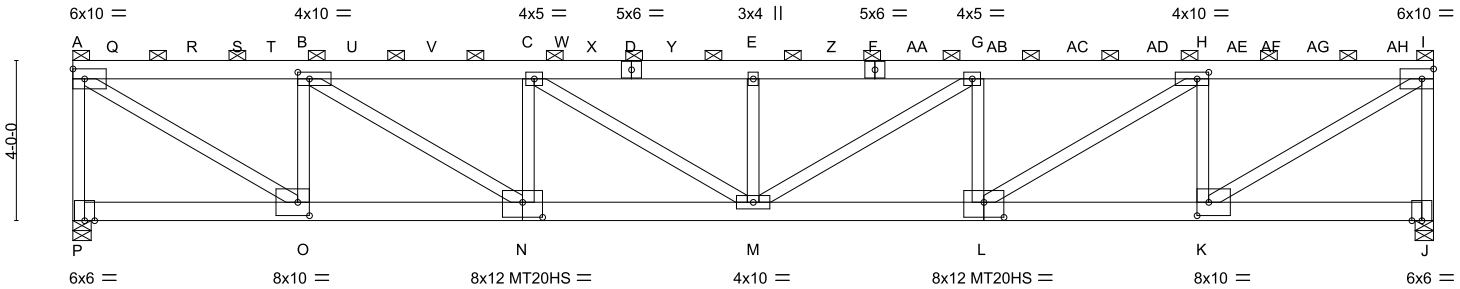

5-9-3	11-4-9	17-0-0	22-7-7	28-2-13	34-0-0
5-9-3	5-7-7	5-7-7	5-7-7	5-7-7	5-9-3

Plate Offsets (X,Y)-- [B:0-3-8,0-2-0], [H:0-3-8,0-2-0], [K:0-3-8,0-4-0], [L:0-6-0,0-4-8], [N:0-6-0,0-4-8], [O:0-3-8,0-4-0]

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	0.90	Vert(LL)	-0.38	M	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.65	M	>625	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.10	J	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.26	M	>999	240	Weight: 492 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD 2-0-0 oc purlins (2-11-1 max.): A-I, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) J=0-5-8, P=0-5-8
Max Horz P=-129(LC 30)
Max Uplift J=-1035(LC 9), P=-1062(LC 8)
Max Grav J=6689(LC 2), P=6787(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-P=-6651/1151, A-B=-9083/1486, B-C=-14048/2334, C-E=-15852/2655, E-G=-15852/2655, G-H=-14004/2369, H-I=-8978/1552, I-J=-6555/1130
BOT CHORD N-O=-1481/9083, M-N=-2236/14172, L-M=-2252/14129, K-L=-1410/8978
WEBS A-O=-1789/10614, B-O=-5504/1042, B-N=-1011/5915, C-N=-2996/607, C-M=-350/1986, E-M=-2024/433, G-M=-321/2036, G-L=-3041/590, H-L=-973/5987, H-K=-5438/1001, I-K=-1731/10495

NOTES-
1) 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.
2) 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.
3) 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 29-10-4, Corner(3) 29-10-4 to 33-10-4 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
4) 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
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates 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) Bearing at joint(s) J, P 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 bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) J=1035, P=1062.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

Continued on 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) 762 lb down and 222 lb up at 1-0-0, 759 lb down and 226 lb up at 3-0-0, 759 lb down and 226 lb up at 5-0-0, 640 lb down and 147 lb up at 7-0-0, 640 lb down and 147 lb up at 9-0-0, 640 lb down and 147 lb up at 11-0-0, 640 lb down and 147 lb up at 13-0-0, 640 lb down and 147 lb up at 15-0-0, 640 lb down and 147 lb up at 17-0-0, 640 lb down and 147 lb up at 19-0-0, 640 lb down and 147 lb up at 21-0-0, 640 lb down and 147 lb up at 23-0-0, 640 lb down and 147 lb up at 25-0-0, 640 lb down and 147 lb up at 27-0-0, 640 lb down and 147 lb up at 29-0-0, and 640 lb down and 147 lb up at 31-0-0, and 762 lb down and 221 lb up at 33-0-0 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-P=-20
   Concentrated Loads (lb)
   Vert: E=-600 Q=-688 R=-679 T=-679 U=-600 V=-600 W=-600 X=-600 Y=-600 Z=-600 AA=-600 AB=-600 AC=-600 AD=-600 AE=-600 AG=-600 AH=-688

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	G1	MONOPITCH SUPPORTED	1	1	I76502435
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:50 2025 Page 1
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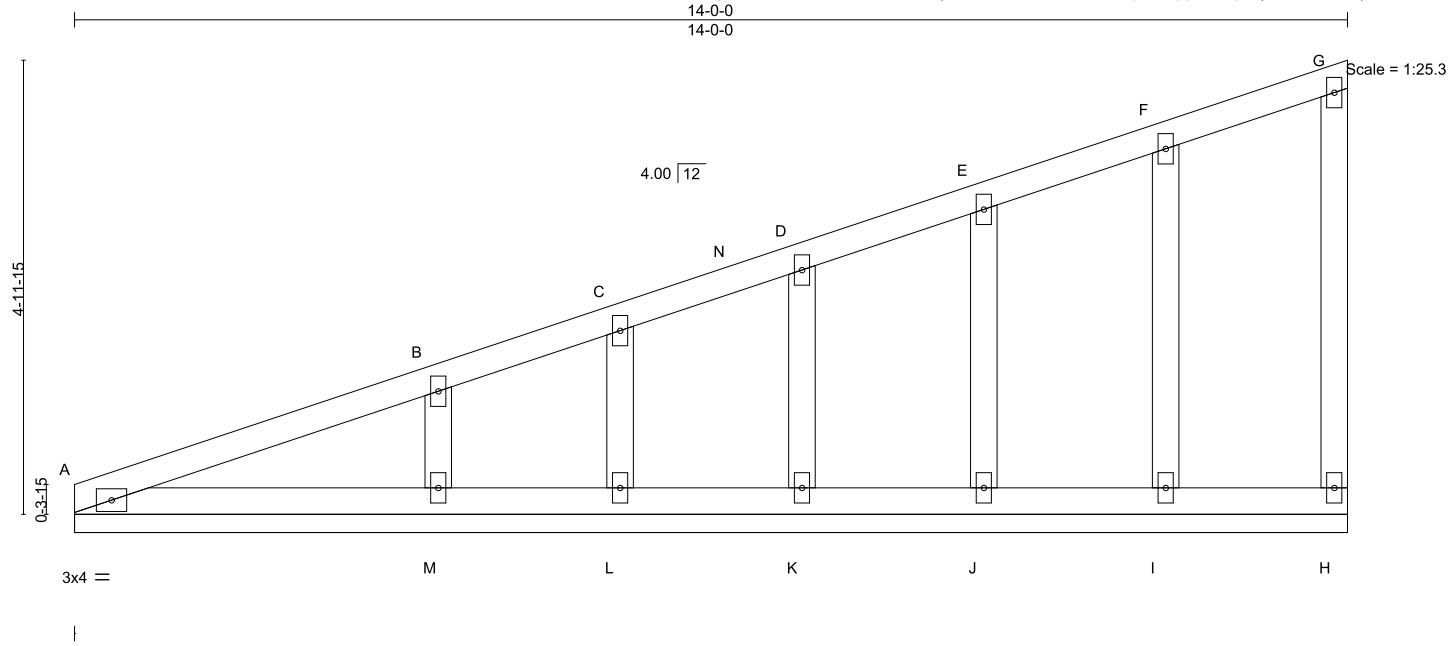

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	H	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 68 lb	FT = 20%
BCDL	10.0											

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 10-0-0 oc bracing.

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) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) A.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	G2	Monopitch	3	1	I76502436
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:50 2025 Page 1
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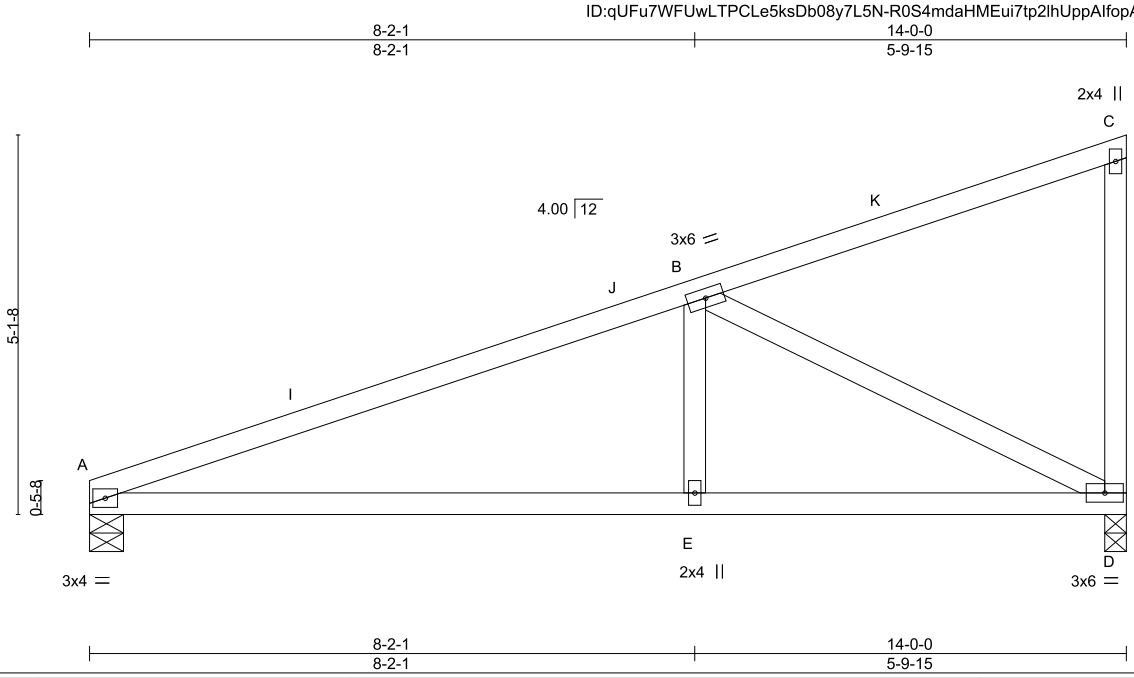

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.13	E-H	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.27	E-H	>618	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.02	D	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.10	E-H	>999	240	Weight: 62 lb	FT = 20%
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 4-6-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) A=0-5-8, D=0-3-8
Max Horz A=200(LC 11)
Max Uplift A=-88(LC 8), D=-120(LC 12)
Max Grav A=622(LC 3), D=699(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1055/206
BOT CHORD A-E=-154/957, D-E=-154/957
WEBS B-E=0/325, B-D=-1059/248

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 Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	G3	Roof Special Girder	1	2	I76502437

Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:51 2025 Page 1
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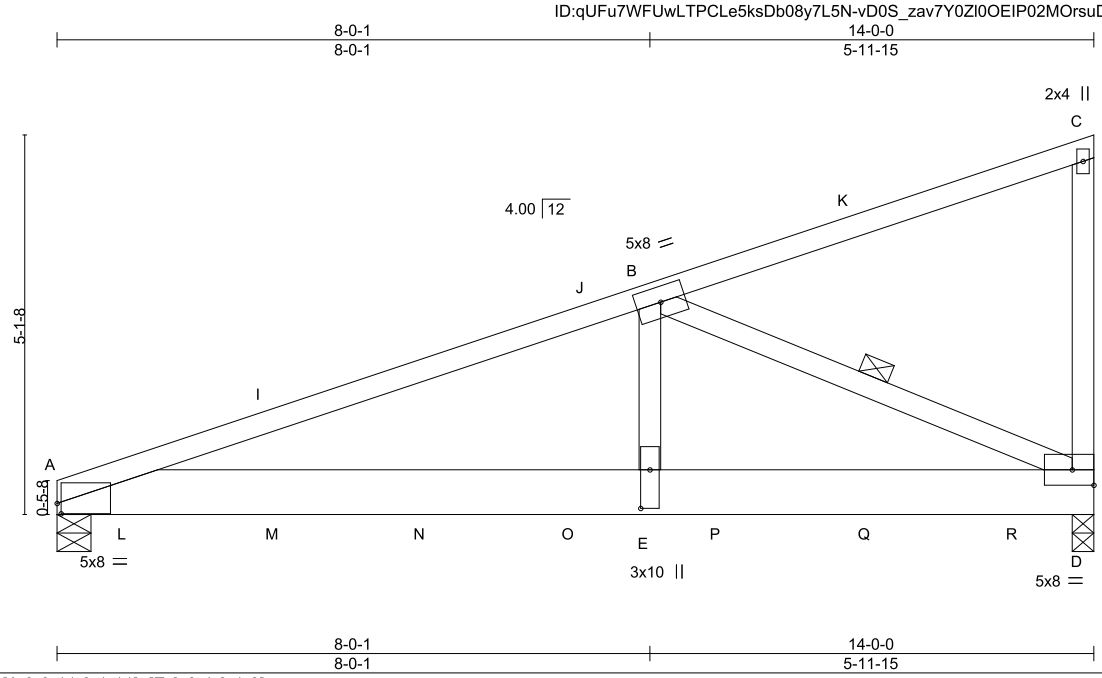

Plate Offsets (X,Y)-- [A:0-0-11,0-1-11], [E:0-6-4,0-1-8]

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	0.64	Vert(LL)	-0.16	E-H	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.29	E-H	>575	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.03	D	n/a	n/a		
BCLL	10.0	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.13	E-H	>999	240	Weight: 168 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
B-E: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-12 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=0-5-8, D=0-3-8
Max Horz A=196(LC 11)
Max Uplift A=-748(LC 8), D=-787(LC 12)
Max Grav A=4753(LC 3), D=4888(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-7669/1267
BOT CHORD A-E=-1161/7257, D-E=-1161/7257
WEBS B-E=-735/5215, B-D=-7929/1346

NOTES-
1) 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: 2x8 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) 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.
3) 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
4) 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
5) Unbalanced snow loads have been considered for this design.
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) A=748, D=787.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1189 lb down and 198 lb up at 0-11-12, 1188 lb down and 198 lb up at 2-11-12, 1188 lb down and 198 lb up at 4-11-12, 1188 lb down and 198 lb up at 6-11-12, 1188 lb down and 198 lb up at 8-11-12, and 1188 lb down and 198 lb up at 10-11-12, and 1191 lb down and 196 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

September 22,2025

Continued on 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, D-F=-20
   Concentrated Loads (lb)
   Vert: L=-1145(B) M=-1145(B) N=-1145(B) O=-1145(B) P=-1145(B) Q=-1145(B) R=-1146(B)

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	H1	GABLE	1	1	I76502438
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:52 2025 Page 1
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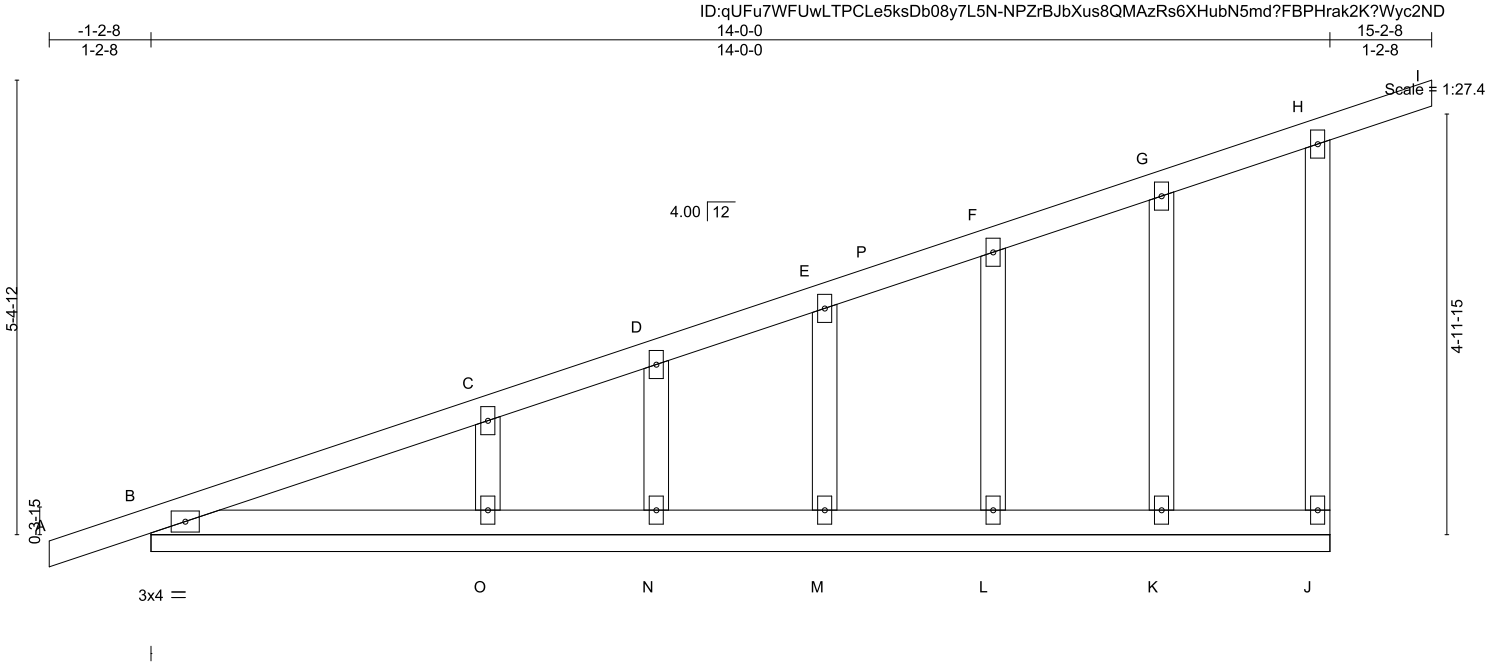

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.00	H	n/r	120	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.00	I	n/r	90		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	J	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 71 lb	FT = 20%
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 16.0 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 Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	H1A	GABLE	1	1	I76502439
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:52 2025 Page 1
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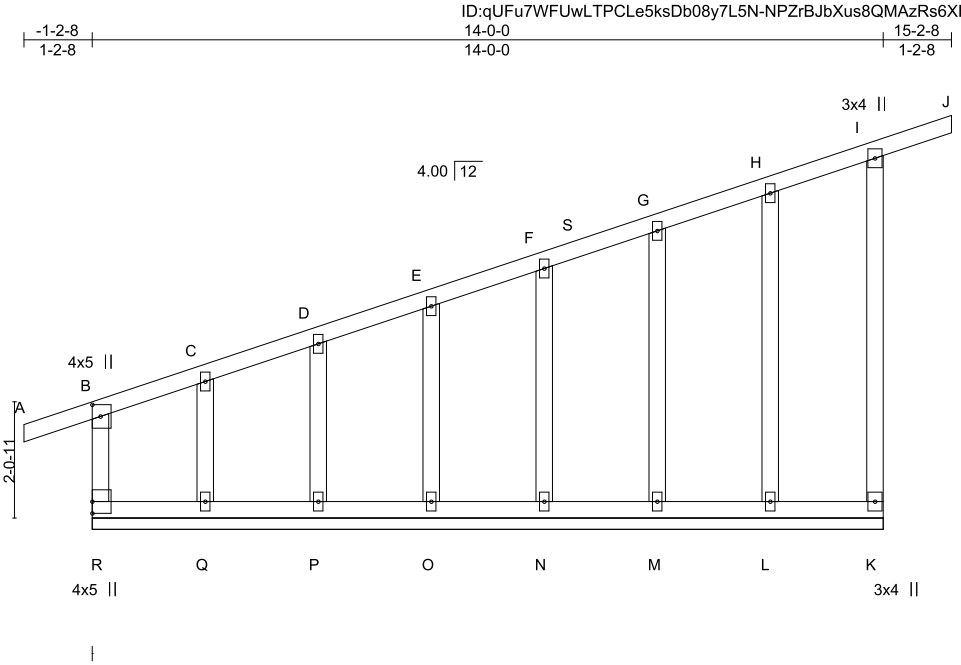

Plate Offsets (X,Y)-- [B:0-2-8,0-1-12]

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	0.76	Vert(LL)	0.00	I	n/r	120	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.00	I	n/r	90		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	K	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 92 lb	FT = 20%
BCDL	10.0											

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 14-0-0.
(lb) - Max Horz R=287(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) O, N, M, L except K=-108(LC 9), Q=-319(LC 9)
Max Grav All reactions 250 lb or less at joint(s) K, Q, P, O, N, M, L except R=321(LC 23)

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 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 16.0 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, L except (jt=lb) K=108, Q=319.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

MiTek®
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	H2	Monopitch	4	1	I76502440
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:53 2025 Page 1
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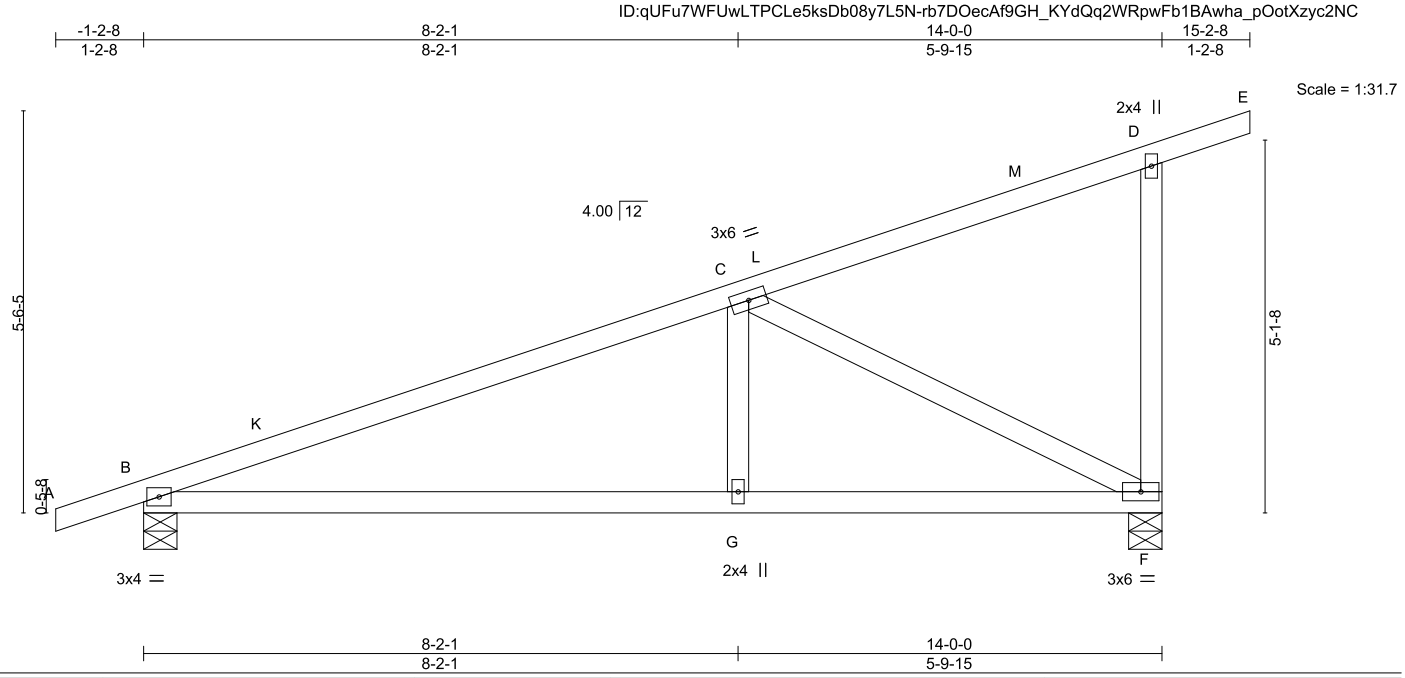

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.12	G-J	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.25	G-J	>656	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.02	F	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.09	G-J	>999	240	Weight: 66 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) B=0-5-8, F=0-5-8
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 16.0 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 Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	H2A	Monopitch	4	1	I76502441
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:53 2025 Page 1
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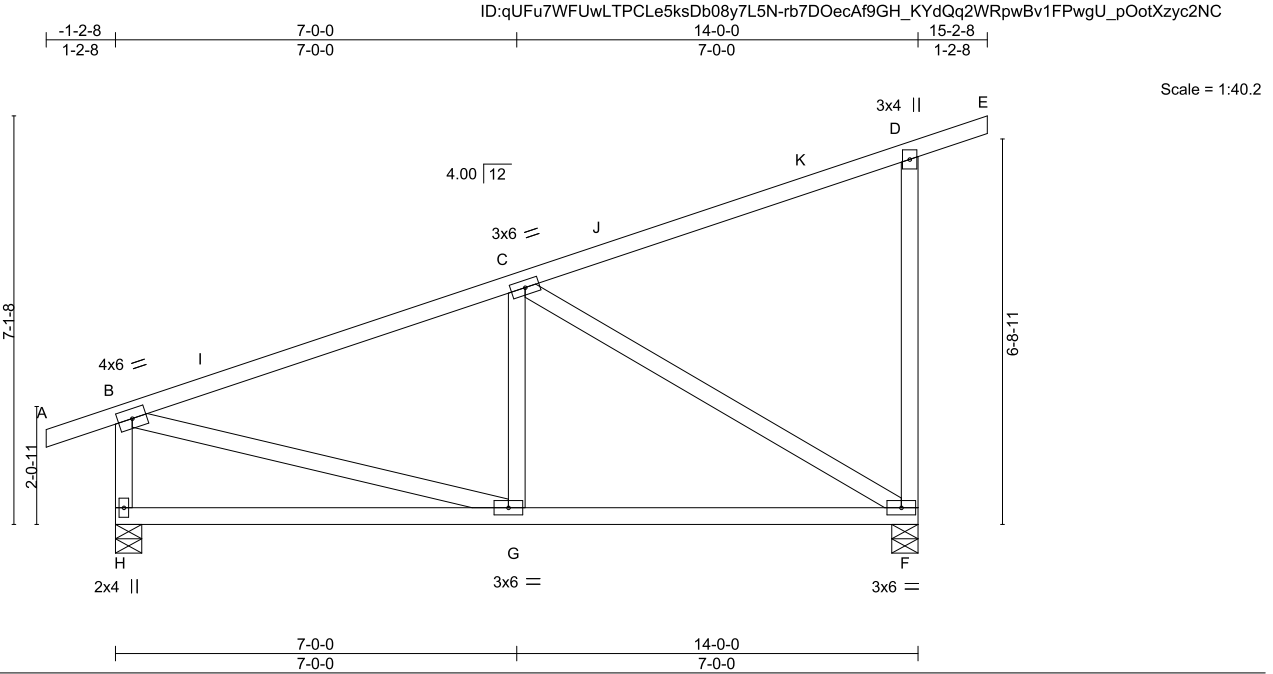

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.05	F-G	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.11	F-G	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.01	F	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.02	F-G	>999	240	Weight: 85 lb	FT = 20%
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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) H=0-5-8, F=0-5-8
Max Horz H=287(LC 9)
Max Uplift H=-127(LC 8), F=-164(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=-698/114, D-F=-391/167, B-H=-595/216
BOT CHORD G-H=-275/349, F-G=-131/617
WEBS C-F=-694/174, B-G=-23/553

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 16.0 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=127, F=164.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	H3	Jack-Closed	4	1	I76502442
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:54 2025 Page 1
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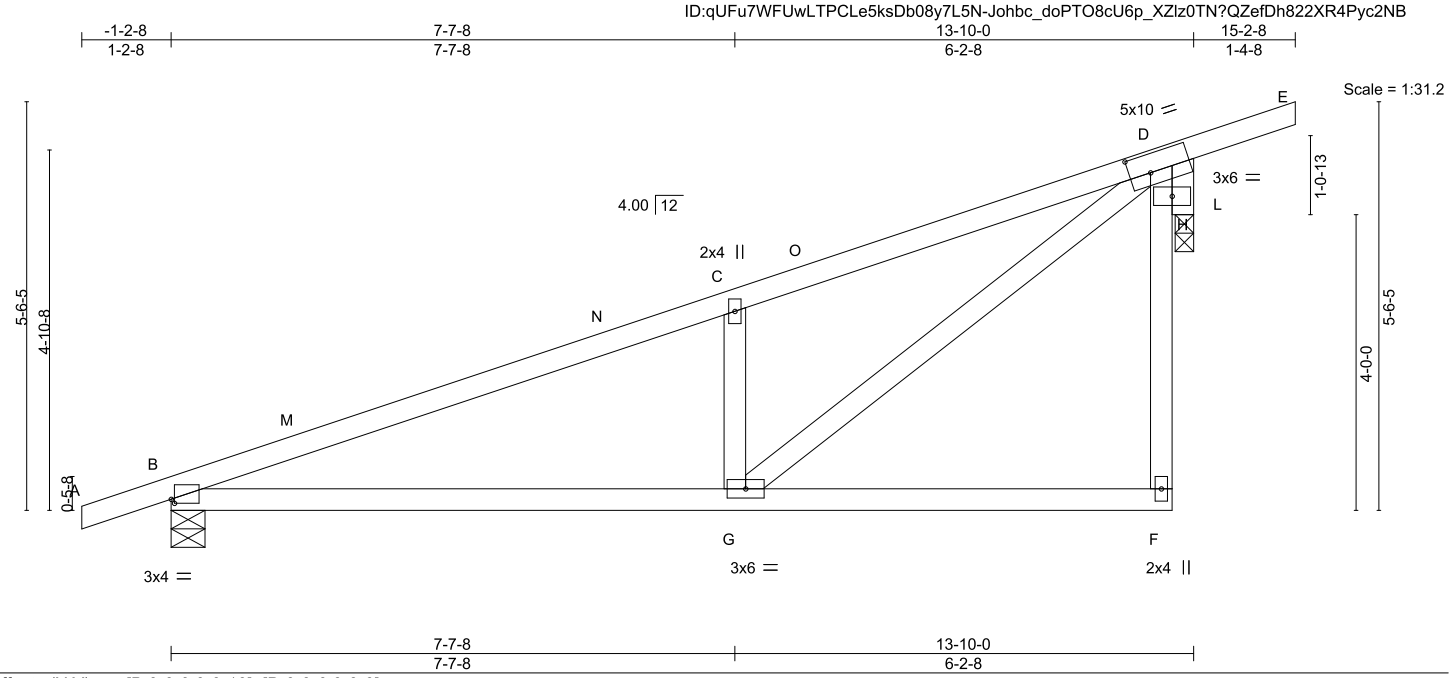

Plate Offsets (X,Y)-- [B:0-0-9,0-0-10], [D:0-3-6,0-3-0]

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	0.65	Vert(LL)	-0.10	G-K	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.20	G-K	>810	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.03	L	n/a	n/a		
BCLL	10.0	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.08	G-K	>999	240	Weight: 68 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
D-F: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) B=0-5-8, L=0-3-0
Max Horz B=212(LC 9)
Max Uplift B=-125(LC 8), L=-162(LC 8)
Max Grav B=660(LC 3), L=799(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1021/111, C-D=-1041/200
BOT CHORD B-G=-145/923
WEBS C-G=-504/218, D-G=-230/1112, D-L=-865/231

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 16.0 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=125, L=162.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	H3A	Jack-Closed	4	1	I76502443
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:54 2025 Page 1
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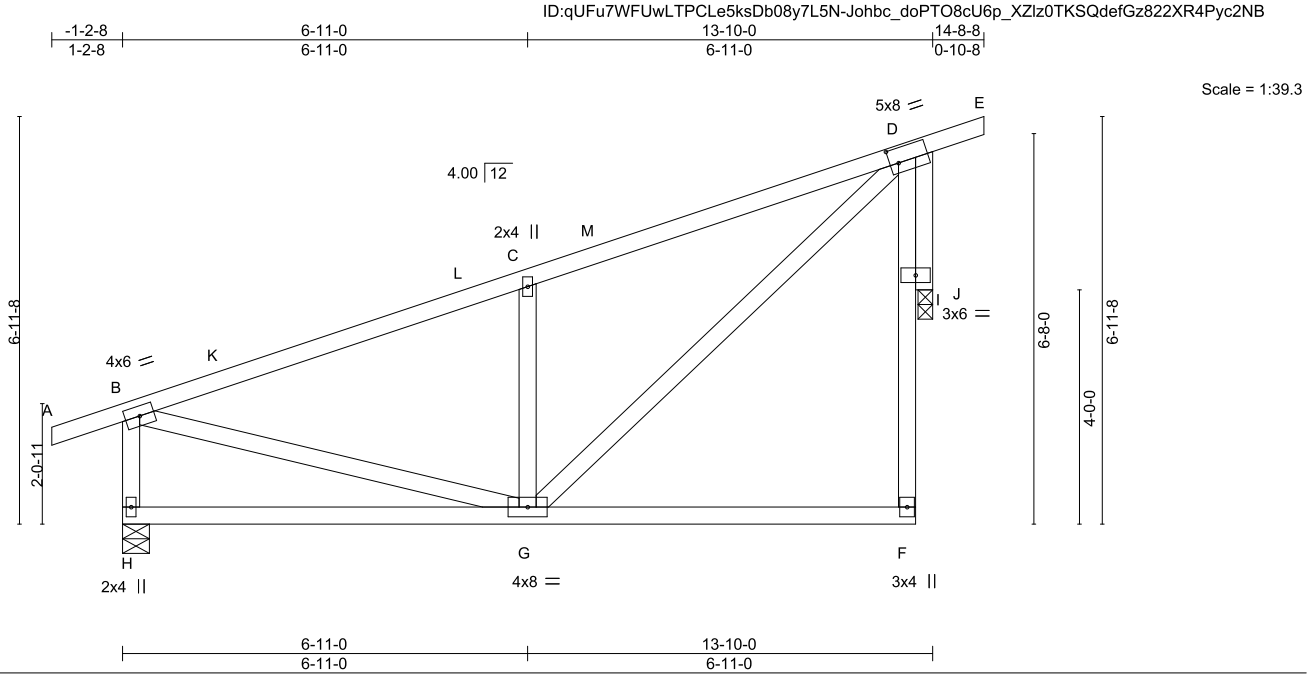

Plate Offsets (X,Y)-- [D:0-1-12,0-3-0]

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	0.88	Vert(LL)	-0.05	G-H	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.10	G-H	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.12	J	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.02	G	>999	240	Weight: 88 lb	FT = 20%
BCDL	10.0											

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-11-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) H=0-5-8, J=0-3-0
Max Horz H=242(LC 9)
Max Uplift H=-110(LC 8), J=-170(LC 8)
Max Grav H=669(LC 3), J=752(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-H=-594/186, B-C=-690/60, C-D=-713/153
BOT CHORD G-H=-231/280
WEBS B-G=0/541, C-G=-501/220, D-G=-196/760, D-J=-763/209

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 14-8-8 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 16.0 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=110, J=170.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D	
251334	H4	Jack-Closed	13	1	Job Reference (optional)	I76502444

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:55 2025 Page 1
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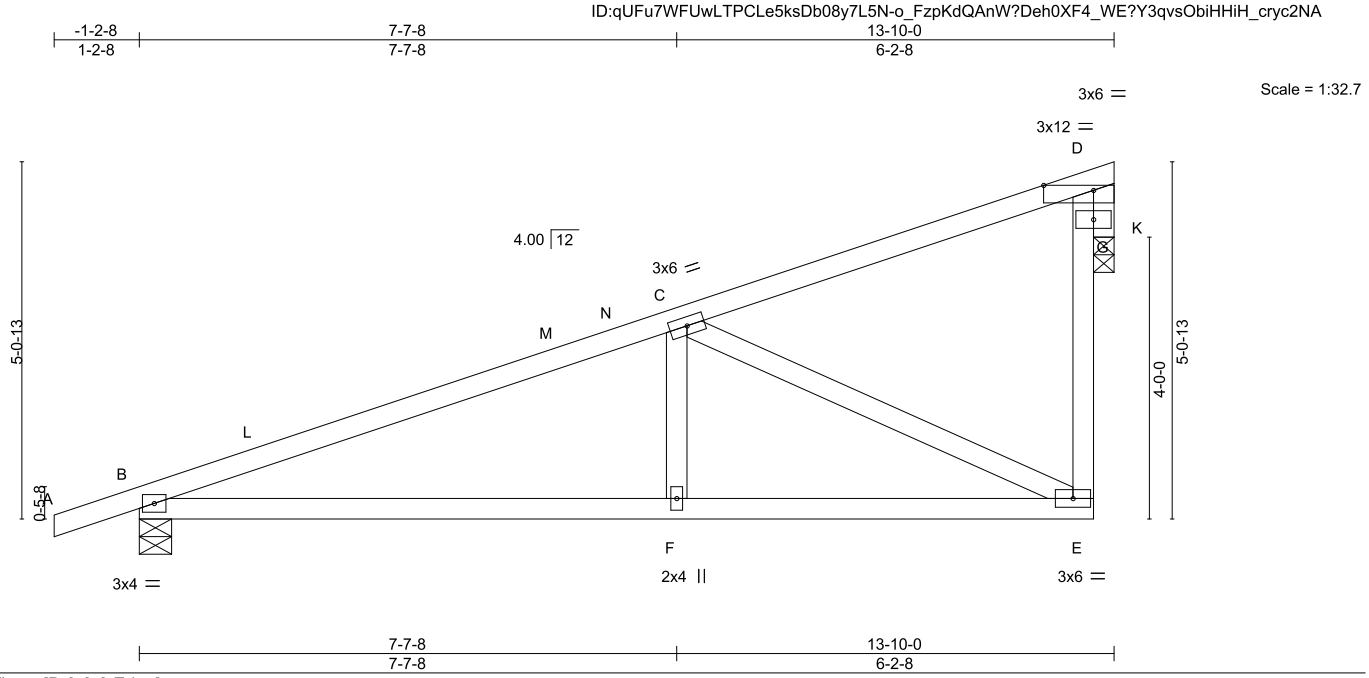

Plate Offsets (X,Y)-- [D:0-8-8,Edge]

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	0.70	Vert(LL)	-0.10	F-J	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.20	F-J	>836	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.05	K	n/a	n/a		
BCLL	10.0	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.07	F-J	>999	240	Weight: 64 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
D-E: 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) B=0-5-8, K=0-3-8
Max Horz B=188(LC 9)
Max Uplift B=-133(LC 8), K=-115(LC 8)
Max Grav B=681(LC 3), K=661(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1089/164, E-G=-57/516, D-G=-57/516
BOT CHORD B-F=-152/988, E-F=-152/988
WEBS C-F=0/303, C-E=-1026/212, D-K=-729/132

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 13-4-12 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 16.0 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=133, K=115.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	H4A	Jack-Closed	13	1	I76502445
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:55 2025 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-o_FzpKdQAnW?Deh0XF4_WE?WEqztOivHHiH_cryc2NA

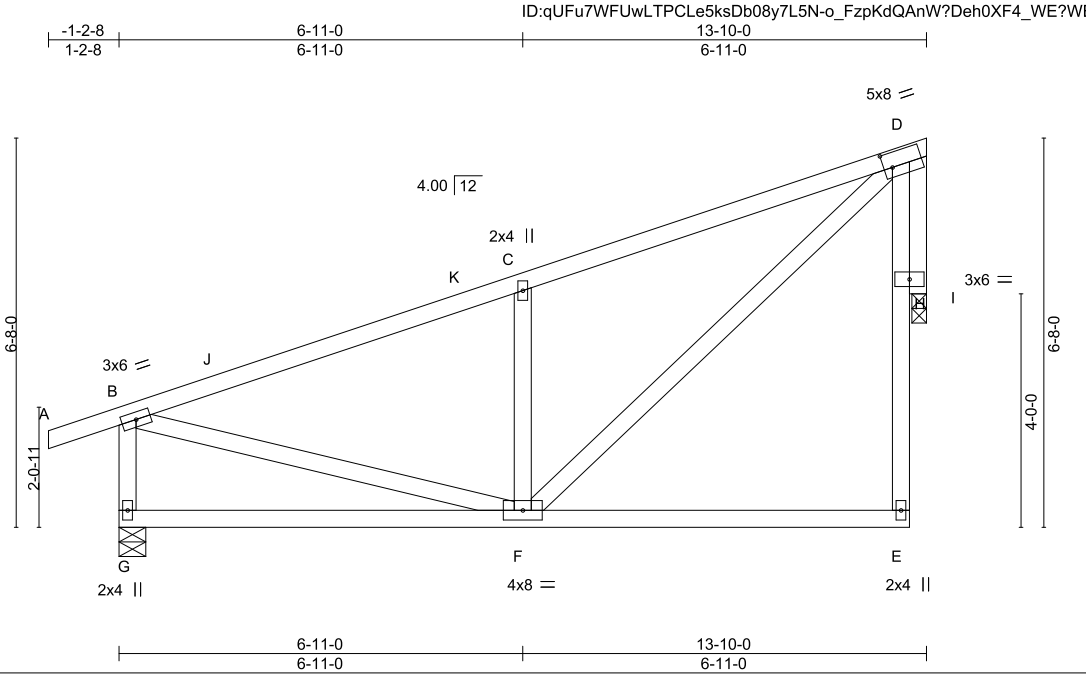

Plate Offsets (X,Y)-- [D:0-1-12,0-3-0]

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	0.81	Vert(LL)	-0.05	F-G	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.10	F-G	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.11	I	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.02	F	>999	240	Weight: 87 lb	FT = 20%
BCDL	10.0											

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-7-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) G=0-5-8, I=0-3-0
Max Horz G=225(LC 9)
Max Uplift G=-117(LC 8), I=-134(LC 8)
Max Grav G=684(LC 3), I=652(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-G=-613/201, B-C=-720/88, C-D=-764/184
BOT CHORD F-G=-214/285
WEBS B-F=-1/577, C-F=-555/228, D-F=-202/807, D-I=-662/137

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 13-4-12 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 16.0 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) I 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=117, I=134.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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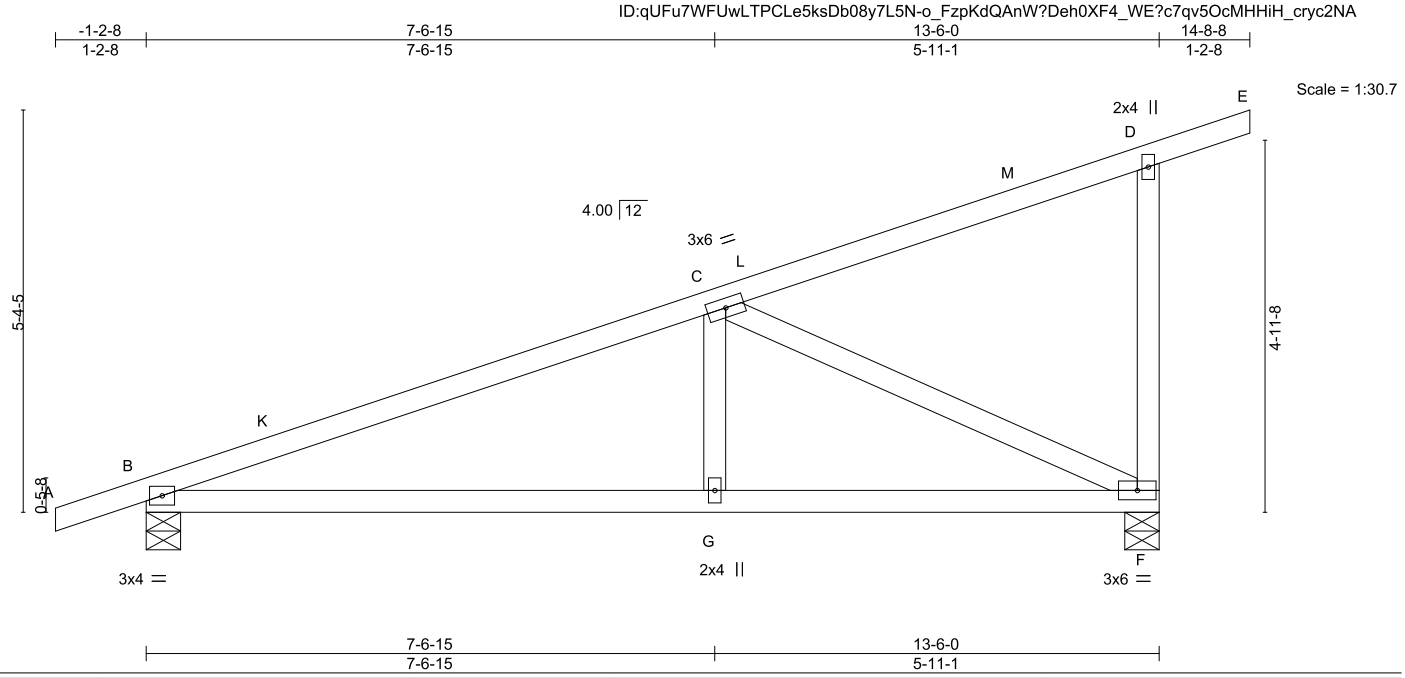
Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	H5	Monopitch	6	1	I76502446
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:55 2025 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-o_FzpKdQAnW?Deh0XF4_WE?c7qv5OcMHHiH_cryc2NA



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	0.44	Vert(LL)	-0.09	G-J	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.18	G-J	>873	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.02	F	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.07	G-J	>999	240	Weight: 64 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) B=0-5-8, F=0-5-8
Max Horz B=218(LC 9)
Max Uplift B=-129(LC 8), F=-150(LC 12)
Max Grav B=648(LC 3), F=779(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-992/140, D-F=-342/156
BOT CHORD B-G=-145/896, F-G=-145/896
WEBS C-G=0/306, C-F=-971/206

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 11-8-8, Exterior(2E) 11-8-8 to 14-8-8 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 16.0 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=129, F=150.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	H5A	Monopitch	6	1	I76502447
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:56 2025 Page 1
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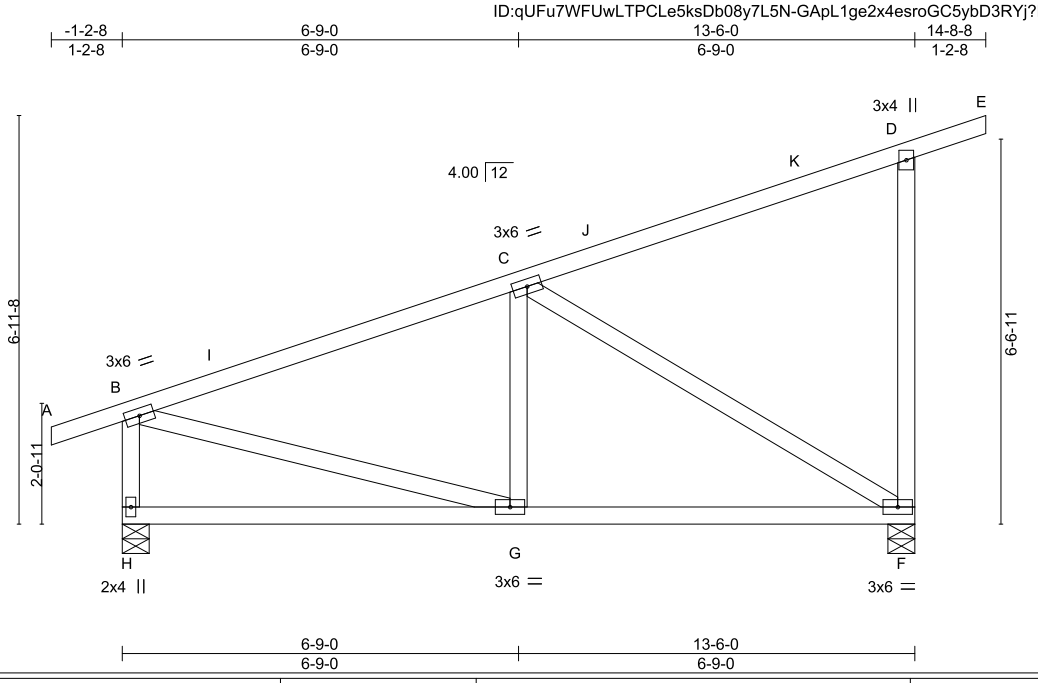

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.05	F-G	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.10	F-G	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.01	F	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.02	F-G	>999	240	Weight: 83 lb	FT = 20%
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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) H=0-5-8, F=0-5-8
Max Horz H=280(LC 9)
Max Uplift H=-124(LC 8), F=-159(LC 12)
Max Grav H=650(LC 3), F=772(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-664/110, D-F=-383/167, B-H=-578/214
BOT CHORD G-H=-267/338, F-G=-127/586
WEBS C-F=-663/166, B-G=-23/531

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 11-8-8, Exterior(2E) 11-8-8 to 14-8-8 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 16.0 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=124, F=159.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	H6	GABLE	1	1	I76502448
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:57 2025 Page 1
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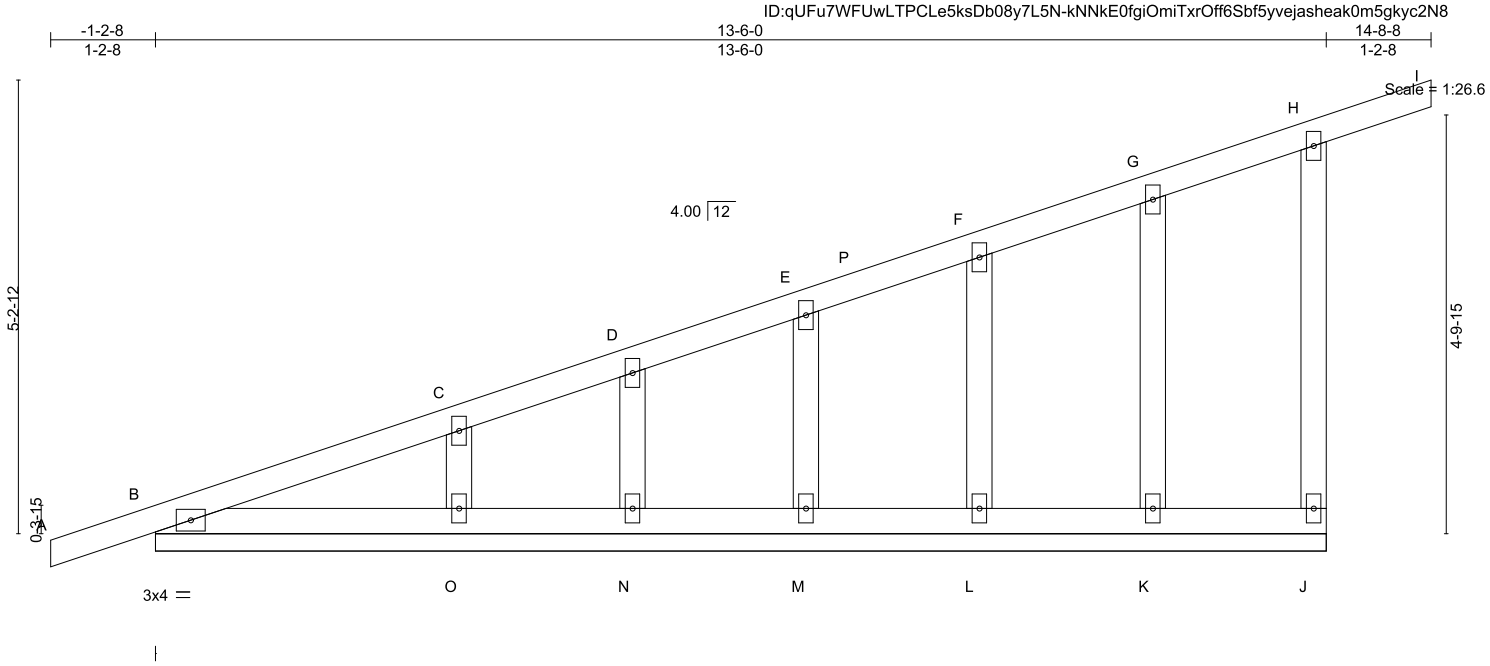

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.00	H	n/r	120	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	I	n/r	90		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	J	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 68 lb	FT = 20%
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 13-6-0.
(lb) - Max Horz B=216(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=282(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 11-6-0, Corner(3E) 11-6-0 to 14-8-8 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 16.0 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 Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D
251334	H6A	GABLE	1	1	I76502449
					Job Reference (optional)

Heartland Truss, LLC., Plattsburg, MO - 64477, 8.830 s Sep 3 2025 MiTek Industries, Inc. Fri Sep 19 13:57:57 2025 Page 1
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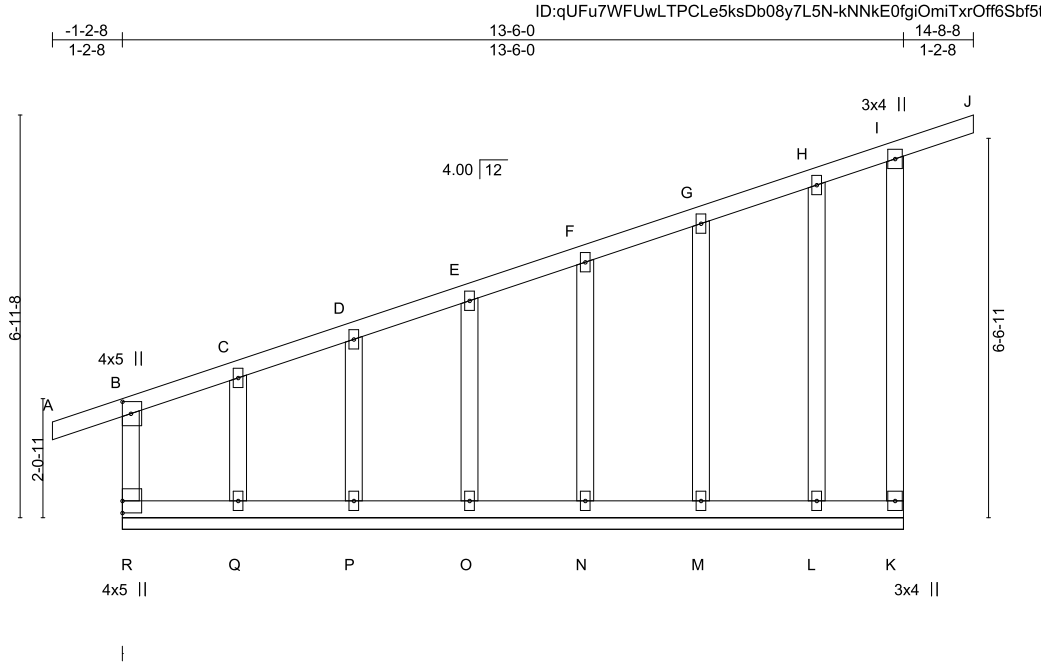

Plate Offsets (X,Y)-- [B:0-2-8,0-1-12]

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	0.73	Vert(LL)	-0.00	I	n/r	120	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.37	Vert(CT)	0.00	I	n/r	90		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	K	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 91 lb	FT = 20%
BCDL	10.0											

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 13-6-0.
(lb) - Max Horz R=280(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) P, O, N, M except K=-124(LC 9), Q=-309(LC 9)
Max Grav All reactions 250 lb or less at joint(s) K, Q, P, O, N, M, L except R=314(LC 23)

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 2-0-0, Exterior(2N) 2-0-0 to 11-8-8, Corner(3E) 11-8-8 to 14-8-8 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 16.0 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) P, O, N, M except (jt=lb) K=124, Q=309.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 22,2025

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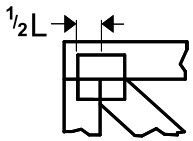
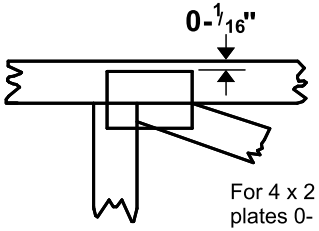
Symbols

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" from outside edge of truss.

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

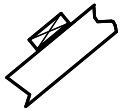
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

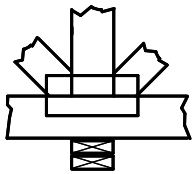
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

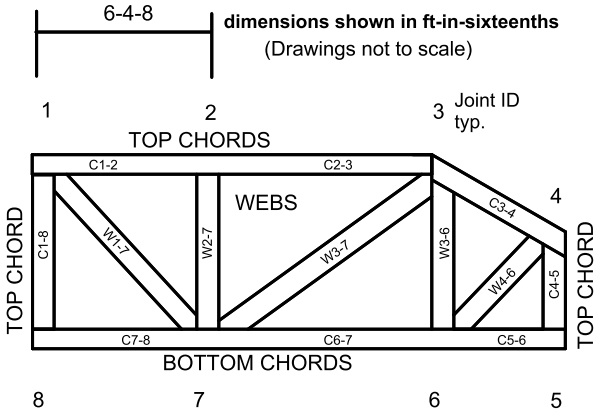


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: 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-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek®

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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.