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

Re: 201355
2350 SW River Trail Rd. - LSMO

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
09/30/2020

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

Pages or sheets covered by this seal: I42843773 thru I42843817

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

Missouri COA: Engineering 001193

September 17,2020

Sevier, Scott ,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	2350 SW River Trail Rd. - LSMO
201355	A1	Piggyback Base	2	1	I42843773
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:48:34 2020 Page 1
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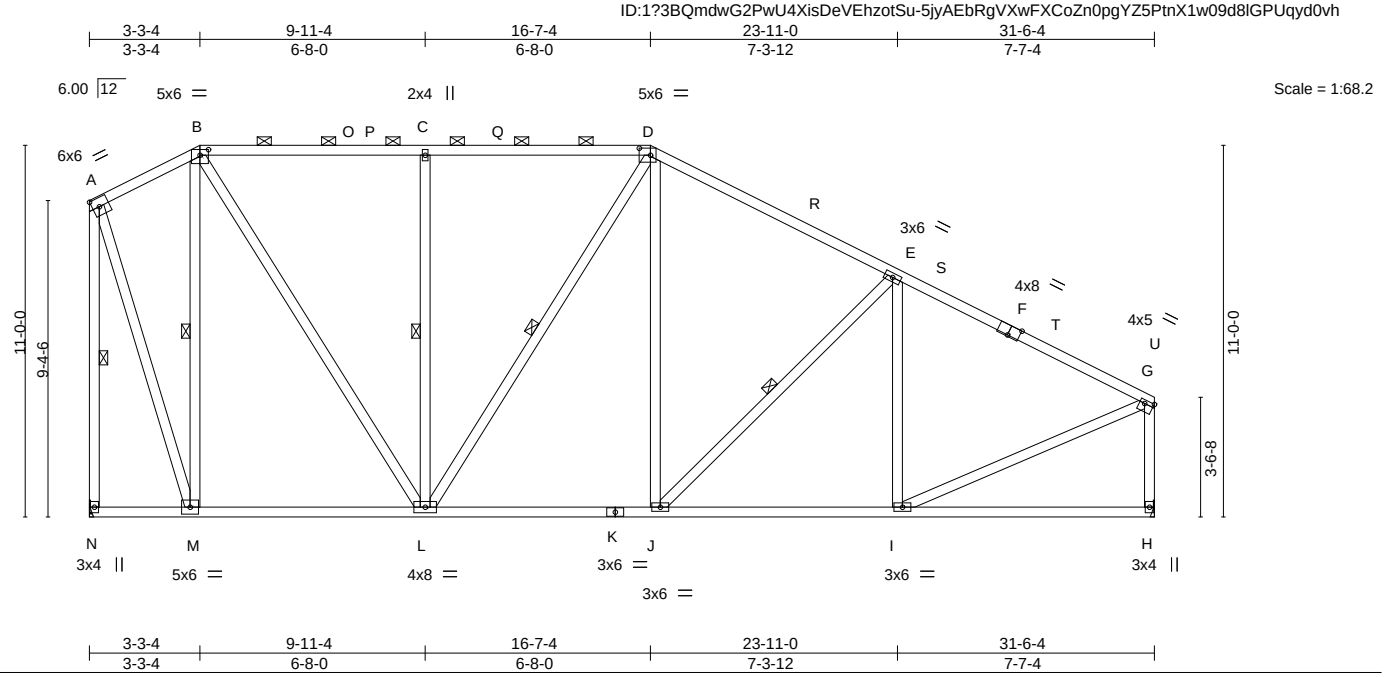

Plate Offsets (X,Y)-- [B:0-3-0,0-2-0], [D:0-4-0,0-2-8], [F:0-4-0,Edge], [G:Edge,0-1-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.08	H-I	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.17	H-I	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.03	H	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS							Weight: 248 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-2 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-14 max.): B-D.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt B-M, C-L, D-L, E-J, A-N

REACTIONS. (size) N=Mechanical, H=Mechanical
Max Horz N=-371(LC 8)
Max Uplift N=-158(LC 8), H=-181(LC 13)
Max Grav N=1629(LC 31), H=1784(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-510/237, B-C=-1129/282, C-D=-1129/282, D-E=-1485/287, E-G=-1822/228, A-N=-1612/223, G-H=-1713/219
BOT CHORD M-N=-149/298, L-M=-103/485, J-L=-65/1130, I-J=-151/1496
WEBS B-M=-1265/267, B-L=-187/1253, C-L=-923/211, D-L=-492/105, D-J=-31/505, E-J=-526/157, E-I=-477/150, A-M=-183/1444, G-I=-128/1555

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 3-3-4, Exterior(2R) 3-3-4 to 7-8-12, Interior(1) 7-8-12 to 12-1-12, Exterior(2R) 12-1-12 to 21-0-12, Interior(1) 21-0-12 to 28-2-11, Exterior(2E) 28-2-11 to 31-4-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) N=158, H=181.
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.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	A2	Piggyback Base Girder	1	2	I42843774
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:48:38 2020 Page 1
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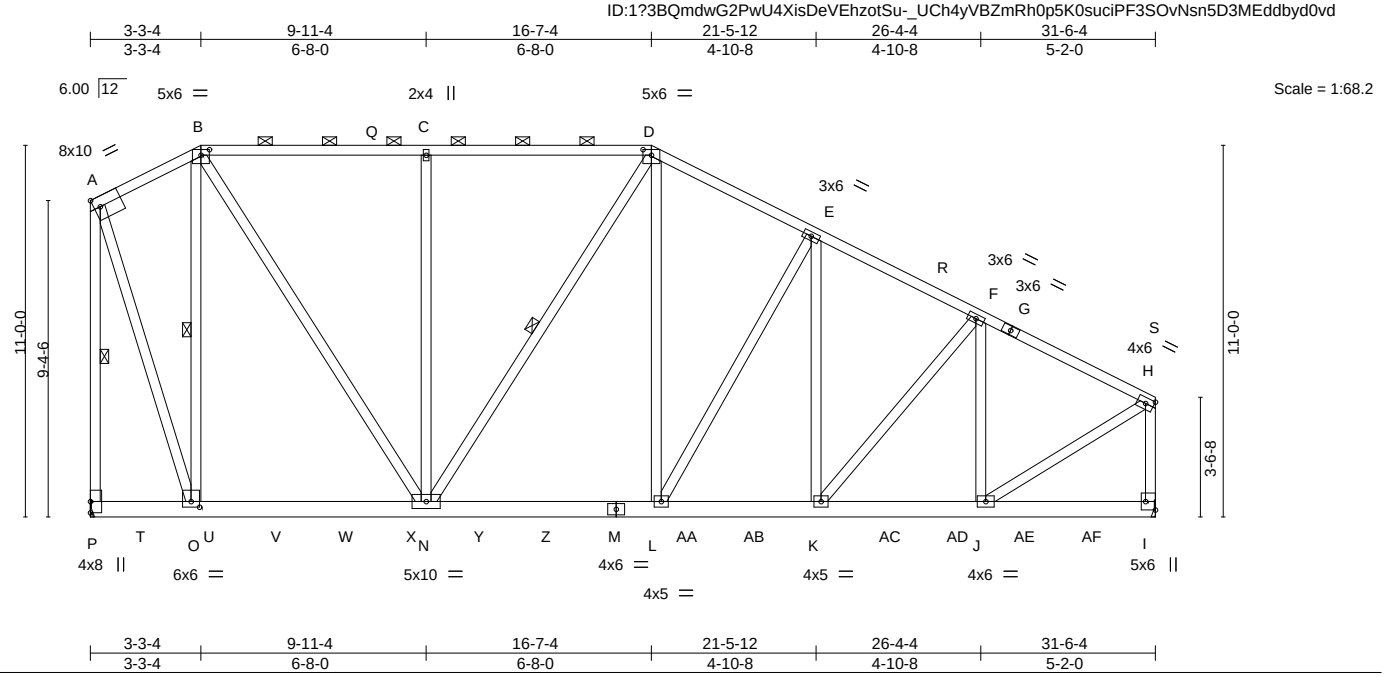

Plate Offsets (X,Y)-- [A:Edge,0-3-8], [B:0-3-0,0-2-0], [D:0-3-0,0-2-0], [I:Edge,0-3-8], [O:0-3-0,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.14	L-N	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.20	L-N	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.03	I	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS							Weight: 577 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-5 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-12 max.): B-D.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt B-O, D-N, A-P

REACTIONS. (size) P=Mechanical, I=Mechanical
Max Horz P=-368(LC 6)
Max Uplift P=-933(LC 6), I=-937(LC 11)
Max Grav P=4544(LC 29), I=4661(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1423/396, B-C=-3119/753, C-D=-3119/753, D-E=-3966/950, E-F=-4553/997, F-H=-4170/849, A-P=-4466/922, H-I=-4342/886
BOT CHORD O-P=-146/296, N-O=-323/1298, L-N=-659/3405, K-L=-777/3955, J-K=-746/3635
WEBS B-O=-2685/637, B-N=-758/3426, C-N=-923/212, D-N=-1014/234, D-L=-472/2206, E-L=-1080/276, E-K=-184/585, F-K=-133/677, F-J=-1152/246, A-O=-862/4009, H-J=-839/4236

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) P=933, I=937.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 380 lb down and 111 lb up at 1-7-0, 380 lb down and 111 lb up at 3-7-0, 380 lb down and 111 lb up at 5-7-0, 380 lb down and 111 lb up at 7-7-0, 380 lb down and 111 lb up at 9-7-0, 380 lb down and 111 lb up at 11-7-0, 380 lb down and 111 lb up at 13-7-0, 380 lb down and 111 lb up at 15-7-0, 404 lb down and 108 lb up at 17-7-0, 404 lb down and 108 lb up at 19-7-0, 404 lb down and 108 lb up at 21-7-0, 404 lb down and 108 lb up at 23-7-0, 380 lb down and 111 lb up at 25-7-0, and 380 lb down and 111 lb up at 27-7-0, and 380 lb down and 111 lb up at 29-7-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-B=-70, B-D=-70, D-H=-70, I-P=-20
   Concentrated Loads (lb)
   Vert: M=-380(F) K=-404(F) T=-380(F) U=-380(F) V=-380(F) W=-380(F) X=-380(F) Y=-380(F) Z=-380(F) AA=-404(F) AB=-404(F) AC=-404(F) AD=-380(F) AE=-380(F) AF=-380(F)

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	A3	Piggyback Base	1	1	I42843775
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:48:40 2020 Page 1
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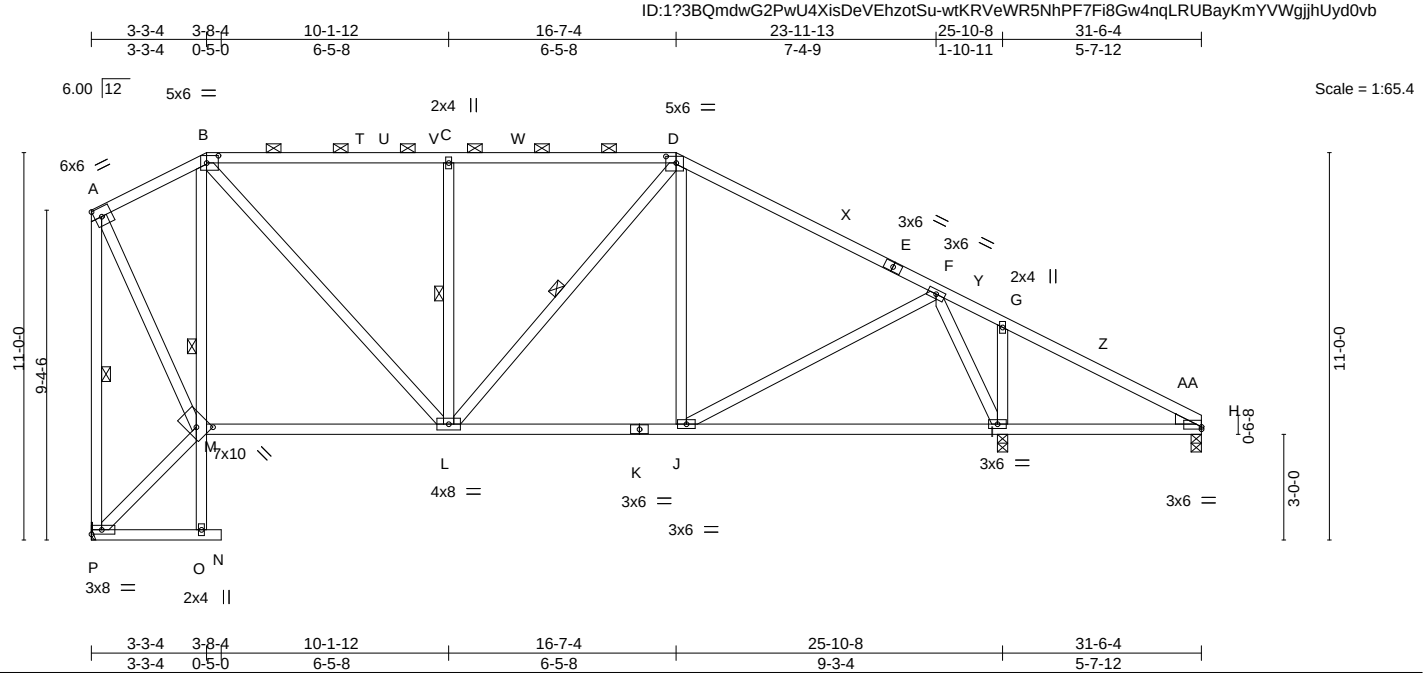

Plate Offsets (X,Y)-- [B:0-4-0,0-2-8], [D:0-3-8,0-2-4], [H:0-0-0,0-0-13], [M:0-4-0,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.14	I-J	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.28	I-J	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.06	I	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS							Weight: 217 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E *Except*
A-B: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
A-P: 2x4 SP No.2
WEDGE
Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-5 max.): B-D.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: H-I.
WEBS 1 Row at midpt C-L, D-L, A-P, B-O

REACTIONS. (size) P=Mechanical, H=0-3-8, I=0-3-8
Max Horz P=-341(LC 10)
Max Uplift P=-152(LC 8), H=-81(LC 13), I=-121(LC 13)
Max Grav P=1386(LC 31), H=337(LC 32), I=1772(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-590/211, B-C=-1259/261, C-D=-1259/261, D-F=-1220/238, A-P=-1351/161
BOT CHORD L-M=-74/563, J-L=-31/1034, I-J=-80/702
WEBS B-L=-201/1069, C-L=-922/212, D-L=-195/350, F-J=-35/735, B-M=-987/298, M-P=-84/329, A-M=-64/1203, G-I=-292/88, F-I=-1397/157

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 3-3-4, Exterior(2R) 3-3-4 to 7-8-12, Interior(1) 7-8-12 to 12-1-12, Exterior(2R) 12-1-12 to 21-0-12, Interior(1) 21-0-12 to 28-4-7, Exterior(2E) 28-4-7 to 31-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) H except (jt=lb) P=152, I=121.
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.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	A5	Piggyback Base	3	1	I42843776
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:48:42 2020 Page 1
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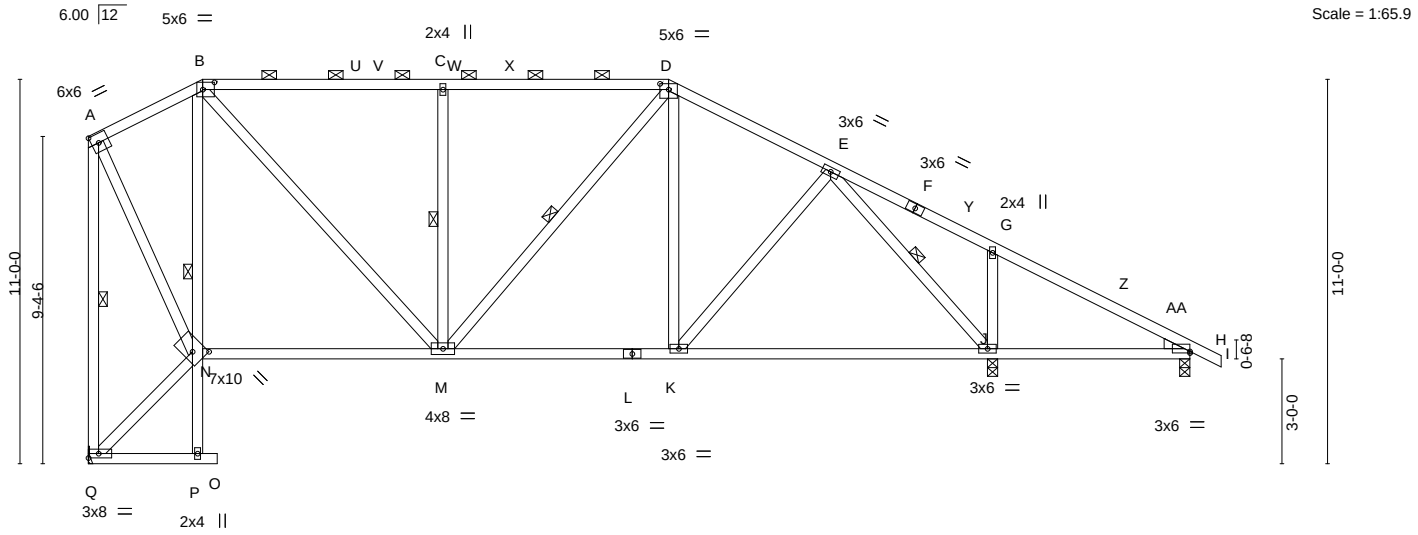
3-3-4	3-8-4	10-1-12	16-7-4	21-2-14	25-10-8	31-6-4	32-5-0
3-3-4	0-5-0	6-5-8	6-5-8	4-7-10	4-7-10	5-7-12	0-10-12



3-3-4	3-8-4	10-1-12	16-7-4	25-10-8	31-6-4
3-3-4	0-5-0	6-5-8	6-5-8	9-3-4	5-7-12

Plate Offsets (X,Y)-- [B:0-4-0,0-2-8], [D:0-3-0,0-2-0], [H:0-0-0,0-0-9], [N:0-4-0,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.14	J-K	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.28	J-K	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.07	J	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 220 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* B-D: 2x4 SP 1650F 1.5E
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* A-Q: 2x4 SP No.2
WEDGE
Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-3 max.): B-D.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: H-J.
WEBS 1 Row at midpt C-M, D-M, E-J, A-Q, B-P

REACTIONS. (size) Q=Mechanical, J=0-3-8, H=0-3-8
Max Horz Q=-349(LC 10)
Max Uplift Q=-151(LC 8), J=-135(LC 13), H=-87(LC 13)
Max Grav Q=1393(LC 32), J=1759(LC 33), H=411(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-593/200, B-C=-1269/253, C-D=-1269/253, D-E=-1197/241, E-G=-287/193, G-H=-273/141, A-Q=-1359/151
BOT CHORD M-N=-59/574, K-M=-18/1047, J-K=-27/916
WEBS B-M=-201/1080, C-M=-926/211, D-M=-172/345, E-K=-79/404, E-J=-1317/96, G-J=-648/199, B-N=-993/298, N-Q=-81/341, A-N=-55/1209

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 3-3-4, Exterior(2R) 3-3-4 to 7-8-12, Interior(1) 7-8-12 to 12-1-12, Exterior(2R) 12-1-12 to 21-2-14, Interior(1) 21-2-14 to 29-3-3, Exterior(2E) 29-3-3 to 32-5-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) 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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) H except (jt=lb) Q=151, J=135.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	B1	Common	4	1	I42843777
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:48:43 2020 Page 1
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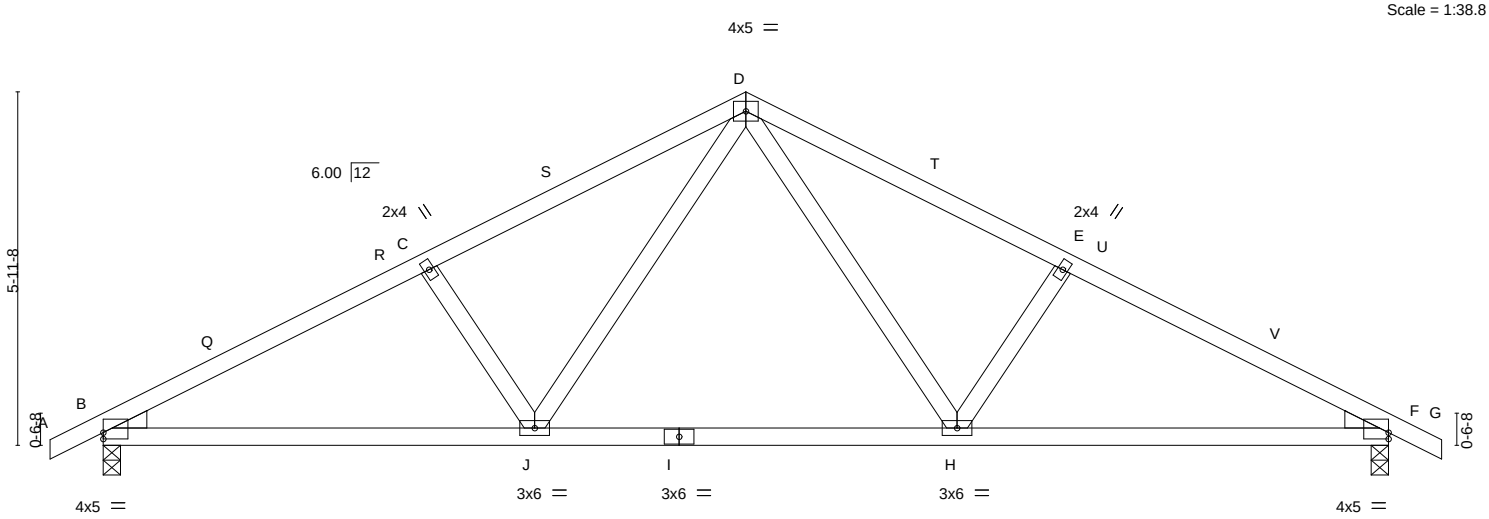
-0-10-12	5-5-15	10-10-0	16-2-1	21-8-0	22-6-12
0-10-12	5-5-15	5-4-1	5-4-1	5-5-15	0-10-12

Scale = 1:38.8



7-3-4	14-4-12	21-8-0
7-3-4	7-1-7	7-3-4

Plate Offsets (X,Y)-- [B:0-0-0,0-1-5], [F:0-0-0,0-1-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.09	H-J	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.17	H-J	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.04	F	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS							Weight: 102 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) B=0-3-8, F=0-3-8
Max Horz B=99(LC 16)
Max Uplift B=-123(LC 12), F=-123(LC 13)
Max Grav B=1094(LC 19), F=1094(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1769/293, C-D=-1549/305, D-E=-1549/305, E-F=-1769/293
BOT CHORD B-J=-187/1511, H-J=-43/937, F-H=-168/1511
WEBS D-H=-90/624, E-H=-474/191, D-J=-90/624, C-J=-474/191

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) -0-10-12 to 2-1-4, Interior(1) 2-1-4 to 7-10-0, Exterior(2R) 7-10-0 to 13-10-0, Interior(1) 13-10-0 to 19-6-12, Exterior(2E) 19-6-12 to 22-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) 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=123, F=123.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	B2	Roof Special Girder	1	2	I42843778
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:48:44 2020 Page 1
ID:1?3BQmdwG2PwU4XisDeVEhzotSu-oeZyL0Zy8cBrkkZUN6?0ygV6UprmGYK5RIhxqFyd0vX

-0-10-12 5-7-15 10-10-0 16-0-1 21-8-0
0-10-12 5-7-15 5-2-1 5-2-1 5-7-15

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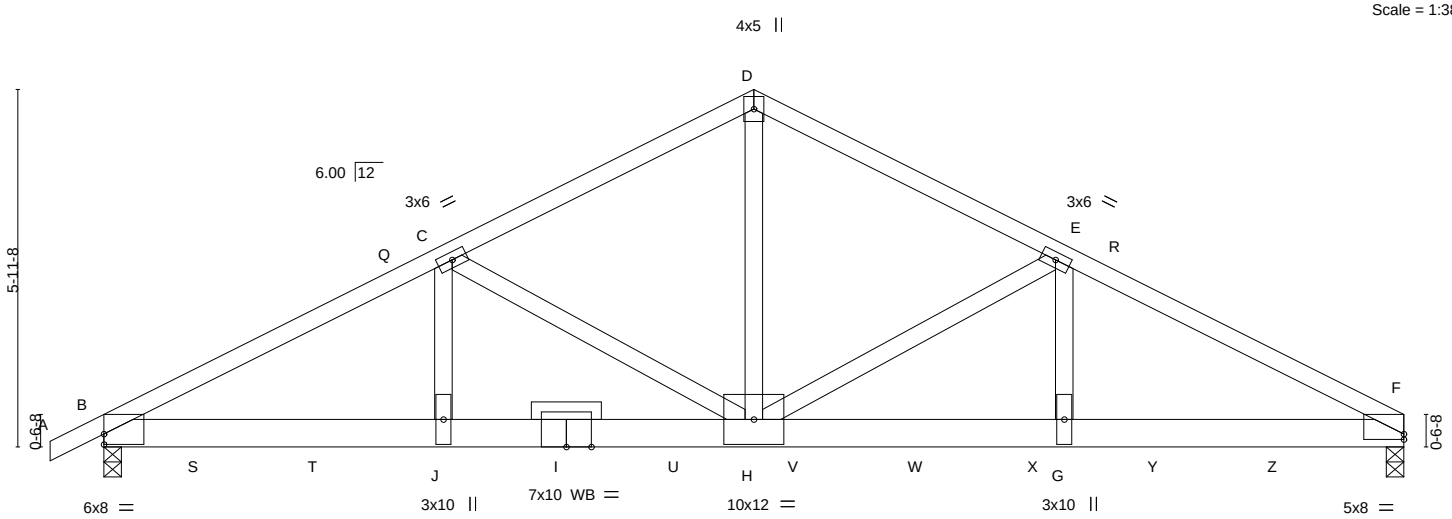

5-7-15 10-10-0 16-0-1 21-8-0
5-7-15 5-2-1 5-2-1 5-7-15

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.17	H-J	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.28	H-J	>920	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.06	F	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS							Weight: 245 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) F=0-3-8, B=0-3-8
Max Horz B=106(LC 10)
Max Uplift F=-592(LC 11), B=-549(LC 10)
Max Grav F=6547(LC 18), B=5844(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-9921/906, C-D=-6917/665, D-E=-6918/664, E-F=-9919/907
BOT CHORD B-J=-832/8827, H-J=-832/8827, G-H=-742/8807, F-G=-742/8807
WEBS D-H=-487/5716, E-H=-3160/395, E-G=-160/2442, C-H=-3184/394, C-J=-159/2454

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: 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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
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 25.0 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) F=592, B=549.
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) 936 lb down and 92 lb up at 1-7-4, 936 lb down and 92 lb up at 3-7-4, 925 lb down and 91 lb up at 5-7-4, 925 lb down and 91 lb up at 7-7-4, 925 lb down and 91 lb up at 9-7-4, 935 lb down and 92 lb up at 11-7-4, 935 lb down and 92 lb up at 13-7-4, 935 lb down and 92 lb up at 15-7-4, 935 lb down and 92 lb up at 17-7-4, and 935 lb down and 92 lb up at 19-7-4, and 944 lb down and 82 lb up at 21-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

September 17,2020

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-D=-70, D-F=-70, K-N=-20
   Concentrated Loads (lb)
   Vert: I=-925(F) J=-925(F) K=-944(F) S=-936(F) T=-936(F) U=-925(F) V=-935(F) W=-935(F) X=-935(F) Y=-935(F) Z=-935(F)

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	B3	Common Supported Gable	1	1	I42843779
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:48:46 2020 Page 1
ID:1?3BQmdwG2PwU4XisDeVEhzotSu-I1himhbCgDRY_2jsUX1U15be0cmykb8OvcA2v7yd0vV

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0-10-12 10-10-0 10-10-0 0-10-12

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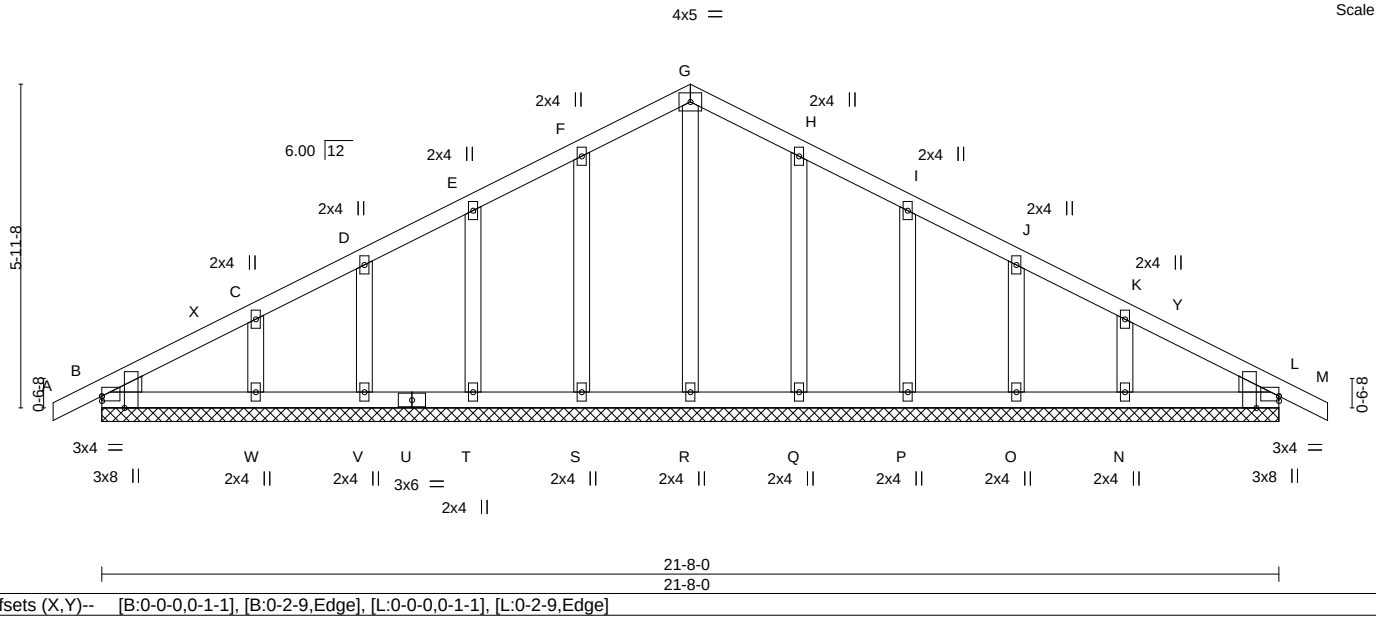

Plate Offsets (X,Y)-- [B:0-0-0,0-1-1], [B:0-2-9,Edge], [L:0-0-0,0-1-1], [L:0-2-9,Edge]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL) -0.00 L n/r 120	MT20 244/190
(Roof Snow=25.0)	Lumber DOL 1.15	BC 0.06	Vert(CT) 0.00 L n/r 90	
TCDL 10.0	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.00 L n/a n/a	
BCLL 0.0	Code IRC2018/TPI2014	Matrix-S		Weight: 116 lb FT = 20%
BCDL 10.0				

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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

REACTIONS. All bearings 21-8-0.
(lb) - Max Horz B=99(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) B, S, T, V, W, Q, P, O, N, L
Max Grav All reactions 250 lb or less at joint(s) B, R, V, W, O, N, L except S=275(LC 19), T=269(LC 19), Q=275(LC 20), P=269(LC 20)

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) -0-10-12 to 2-1-4, Exterior(2N) 2-1-4 to 7-10-0, Corner(3R) 7-10-0 to 13-10-0, Exterior(2N) 13-10-0 to 19-6-12, Corner(3E) 19-6-12 to 22-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, S, T, V, W, Q, P, O, N, L.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) B.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	C1	Roof Special	6	1	I42843780
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:48:47 2020 Page 1
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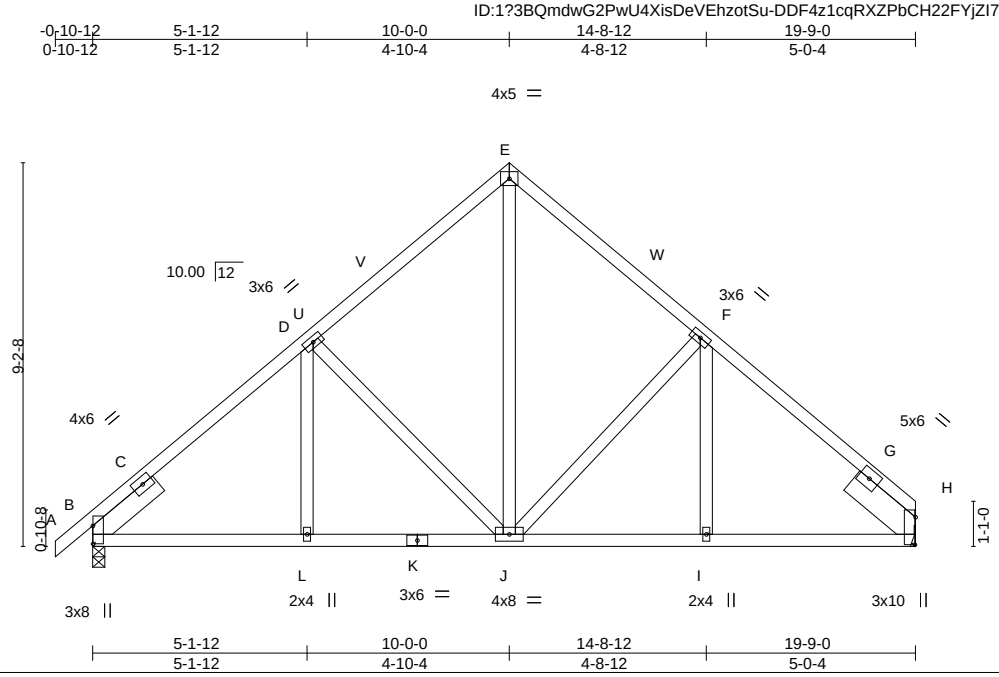

Plate Offsets (X,Y)-- [B:0-5-3,0-0-1], [H:0-7-15,0-0-3]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.05	I-J	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.08	I-J	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.04	H	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS							Weight: 127 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.1 -x 2-0-0, Right 2x8 SP 2400F 2.0E -x 2-0-0

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

REACTIONS. (size) H=Mechanical, B=0-3-8
Max Horz B=219(LC 9)
Max Uplift H=-72(LC 13), B=-93(LC 12)
Max Grav H=955(LC 20), B=1012(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-1024/141, D-E=-865/195, E-F=-869/197, F-H=-1087/141
BOT CHORD B-L=-134/797, J-L=-134/797, I-J=-30/768, H-I=-30/768
WEBS D-J=-393/201, E-J=-124/519, F-J=-360/198

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) -0-10-12 to 2-1-4, Interior(1) 2-1-4 to 7-0-0, Exterior(2R) 7-0-0 to 13-0-0, Interior(1) 13-0-0 to 16-9-0, Exterior(2E) 16-9-0 to 19-9-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) H, B.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	C2	Roof Special	3	1	I42843781
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:48:48 2020 Page 1
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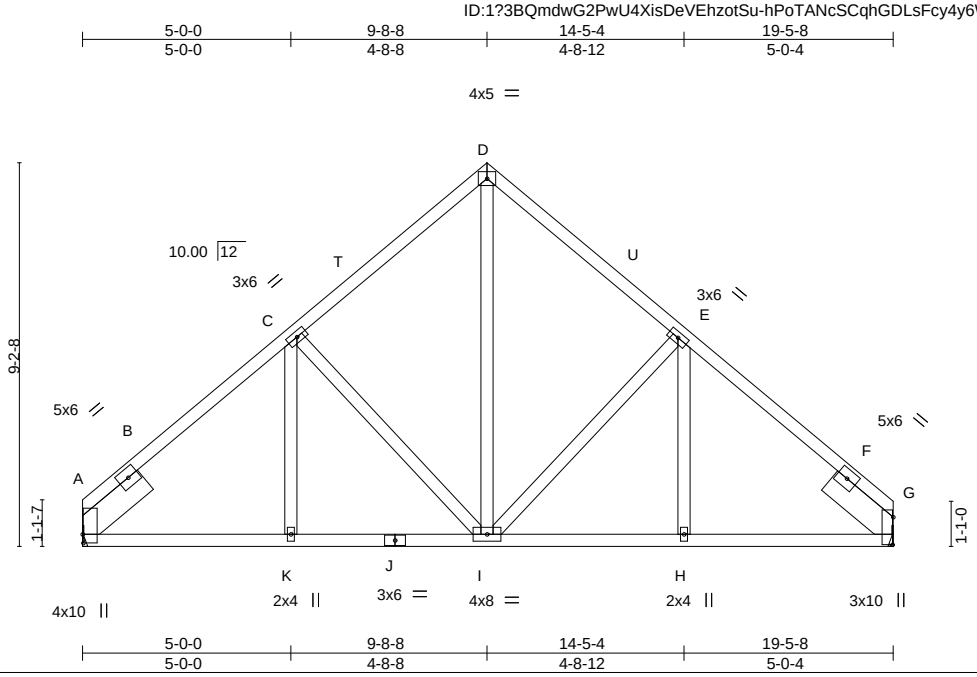

Plate Offsets (X,Y)-- [A:0-2-8,0-0-3], [G:0-7-15,0-0-3]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.05	I-K	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.08	I-K	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.04	G	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS							Weight: 126 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E -x 2-0-0, Right 2x8 SP 2400F 2.0E -x 2-0-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) A=Mechanical, G=Mechanical
Max Horz A=-202(LC 8)
Max Uplift A=-70(LC 12), G=-71(LC 13)
Max Grav A=944(LC 18), G=945(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-C=-1066/139, C-D=-853/196, D-E=-855/195, E-G=-1074/139
BOT CHORD A-K=-126/751, I-K=-126/751, H-I=-29/759, G-H=-29/759
WEBS C-I=-352/197, D-I=-125/498, E-I=-360/198

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 6-8-8, Exterior(2R) 6-8-8 to 12-8-8, Interior(1) 12-8-8 to 16-5-8, Exterior(2E) 16-5-8 to 19-5-8 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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) 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) A, G.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	C3	Roof Special	2	1	I42843782
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:48:48 2020 Page 1
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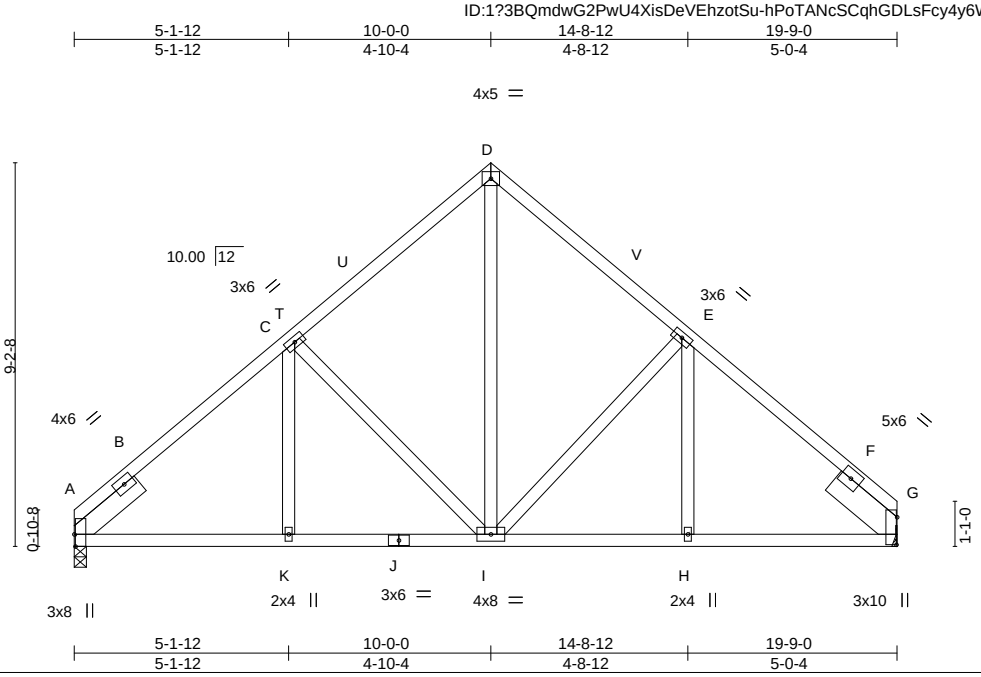

Plate Offsets (X,Y)-- [A:0-3-8,Edge], [G:0-7-15,0-0-3]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.05	H-I	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.08	H-I	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.04	G	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 125 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.1 -x 2-0-0, Right 2x8 SP 2400F 2.0E -x 2-0-0

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

REACTIONS. (size) A=0-3-8, G=Mechanical
Max Horz A=207(LC 9)
Max Uplift A=-73(LC 12), G=-72(LC 13)
Max Grav A=948(LC 18), G=956(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-C=-1030/142, C-D=-867/196, D-E=-870/197, E-G=-1088/141
BOT CHORD A-K=-135/803, I-K=-135/803, H-I=-31/769, G-H=-31/769
WEBS C-I=-399/202, D-I=-125/523, E-I=-360/198

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 7-0-0, Exterior(2R) 7-0-0 to 13-0-0, Interior(1) 13-0-0 to 16-9-0, Exterior(2E) 16-9-0 to 19-9-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) 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) A, G.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	C4	Common Supported Gable	1	1	I42843783
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:48:50 2020 Page 1
ID:1?3BQmdwG2PwU4XisDeVEhzotSu-dowDb3ejkSy_Sf0djN6QBxlK?D7sgMd_qE8F2vyd0vR

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0-10-12 10-0-0 10-0-0 0-10-12

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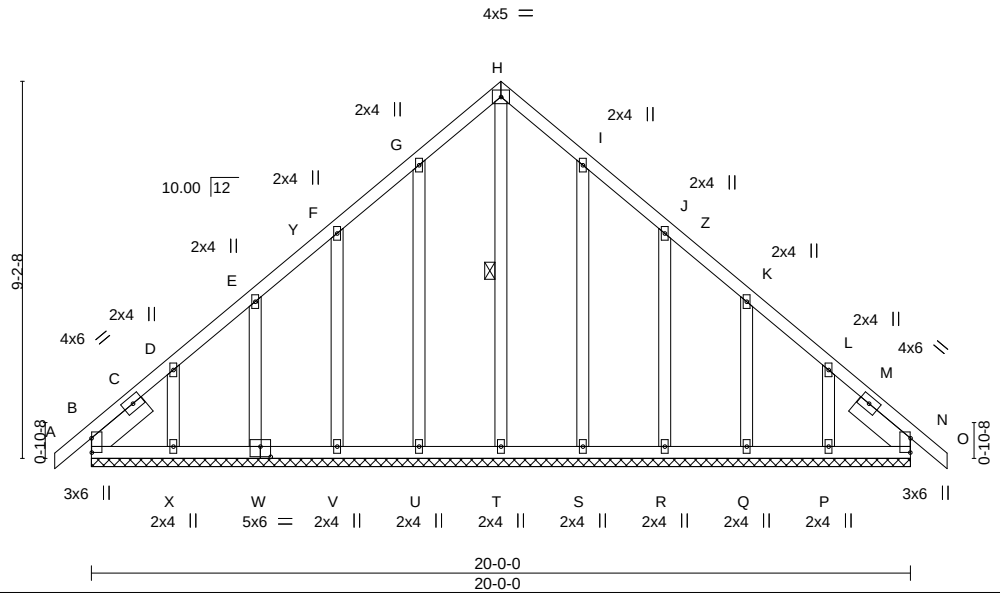

Plate Offsets (X,Y)-- [B:0-4-3,0-0-1], [N:0-4-3,0-0-1], [W:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.00	N	n/r	120	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	N	n/r	90		
TCDL	10.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	N	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 147 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x6 SP No.1 -x 1-8-9, Right 2x6 SP No.1 -x 1-8-9

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt H-T

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz B=-226(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) B, U, V, W, S, R, Q, N except X=-154(LC 12), P=-145(LC 13)
Max Grav All reactions 250 lb or less at joint(s) B, T, W, X, Q, P, N except U=306(LC 19), V=252(LC 19), S=306(LC 20), R=255(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-258/182
WEBS G-U=-266/106, I-S=-266/106

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) -0-10-12 to 2-0-0, Exterior(2N) 2-0-0 to 7-0-0, Corner(3R) 7-0-0 to 13-0-0, Exterior(2N) 13-0-0 to 17-10-12, Corner(3E) 17-10-12 to 20-10-12 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, U, V, W, S, R, Q, N except (jt=lb) X=154, P=145.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	D1	Half Hip	1	1	I42843784
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:48:51 2020 Page 1
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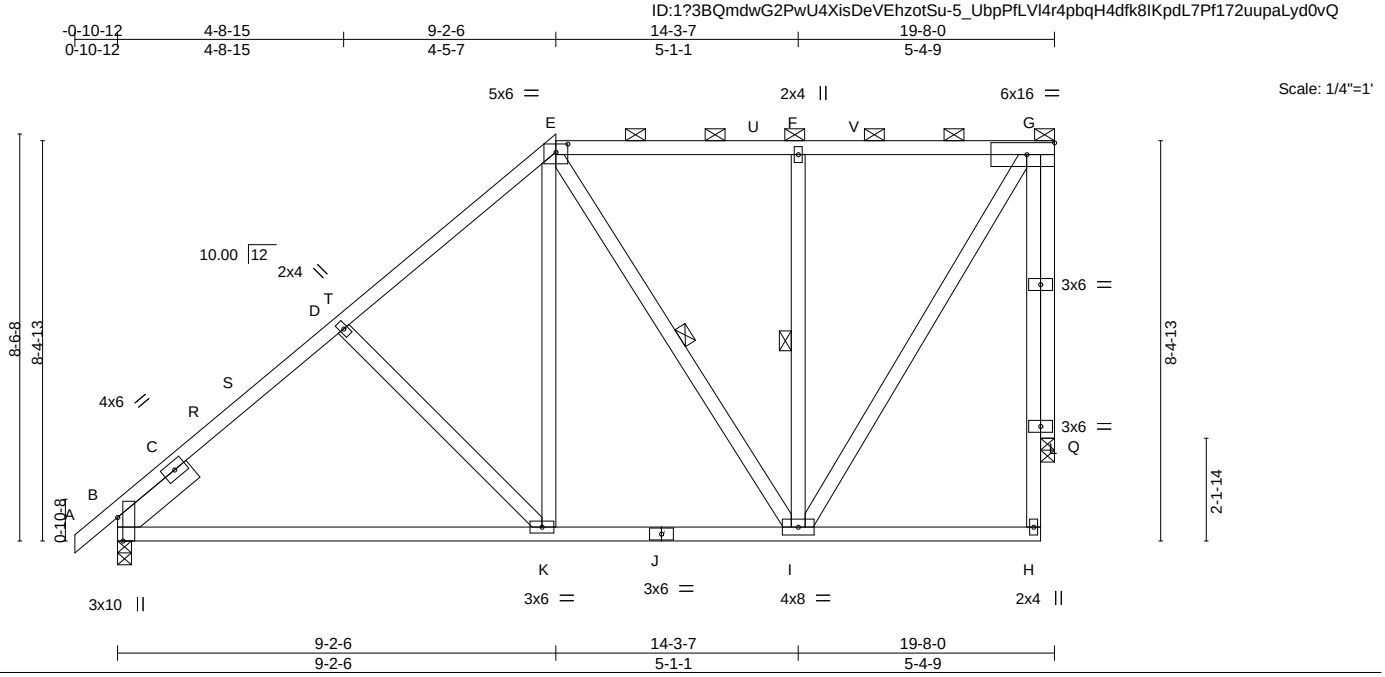

Plate Offsets (X,Y)-- [B:0-5-15,Edge], [E:0-3-0,0-2-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.11	K-O	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.23	K-O	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.08	Q	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 149 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.2
SLIDER	Left 2x6 SP No.1 -x 2-0-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-10-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): E-G.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt E-I, F-I

REACTIONS. (size) B=0-3-8, Q=0-3-8
Max Horz B=282(LC 12)
Max Uplift B=-56(LC 12), Q=-144(LC 9)
Max Grav B=1351(LC 30), Q=1239(LC 29)

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

TOP CHORD	B-D=-1345/90, D-E=-1009/110, E-F=-618/90, F-G=-616/90
BOT CHORD	B-K=-225/945, I-K=-115/644
WEBS	D-K=-464/203, E-K=-59/471, E-I=-388/110, F-I=-787/160, G-I=-149/1068, G-Q=-1240/144

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) -0-10-12 to 2-1-4, Interior(1) 2-1-4 to 4-11-8, Exterior(2R) 4-11-8 to 13-5-5, Interior(1) 13-5-5 to 19-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 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) Bearing at joint(s) Q 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) B except (jt=lb) Q=144.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	D2	Half Hip	1	1	I42843785
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:48:52 2020 Page 1
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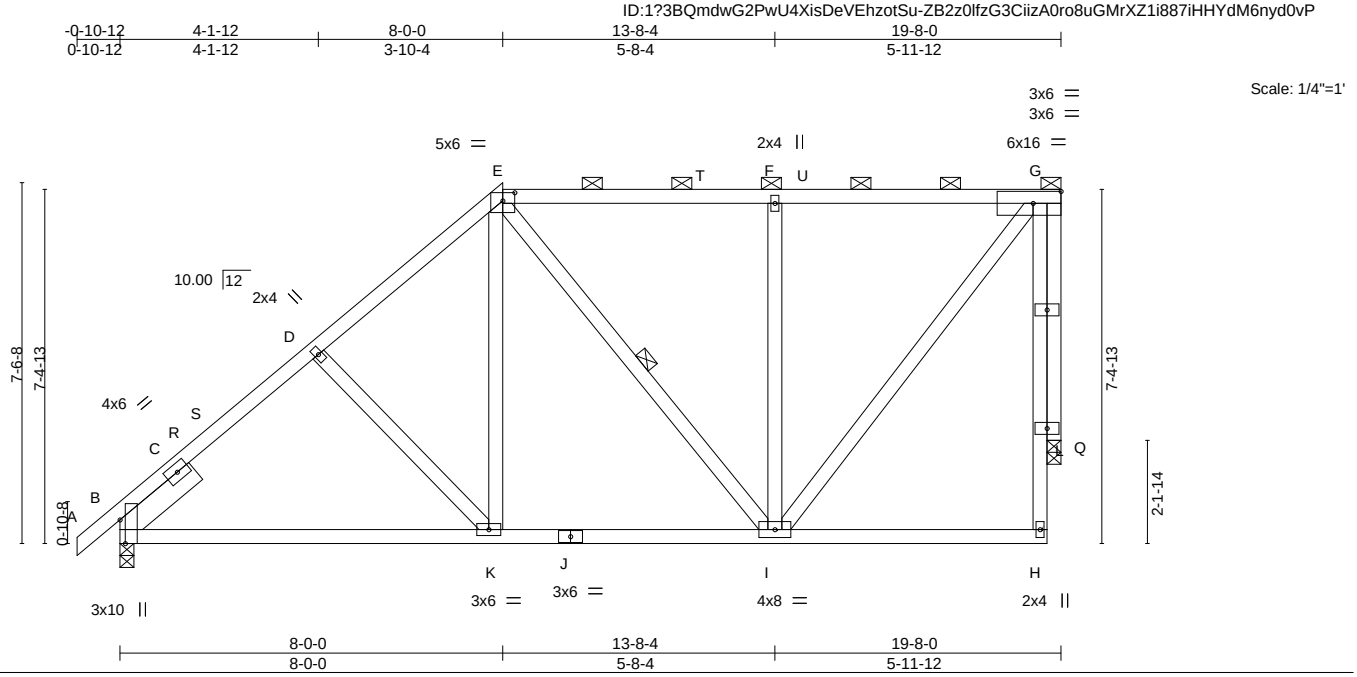

Plate Offsets (X,Y)-- [B:0-5-15,Edge], [E:0-3-0,0-2-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.06	K-O	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.12	K-O	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.09	Q	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS							Weight: 140 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* E-G: 2x4 SP 1650F 1.5E
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.2
SLIDER	Left 2x6 SP No.1 -x 2-0-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-11-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): E-G.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt E-I

REACTIONS. (size) B=0-3-8, Q=0-3-8
Max Horz B=243(LC 12)
Max Uplift B=-60(LC 12), Q=-144(LC 9)
Max Grav B=1285(LC 30), Q=1291(LC 29)

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

TOP CHORD	B-D=-1272/104, D-E=-1001/123, E-F=-801/98, F-G=-799/97
BOT CHORD	B-K=-198/897, I-K=-126/752
WEBS	D-K=-371/174, E-K=-47/394, E-I=-285/114, F-I=-881/178, G-I=-137/1177, G-Q=-1294/144

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) -0-10-12 to 2-1-4, Interior(1) 2-1-4 to 3-9-1, Exterior(2R) 3-9-1 to 12-2-15, Interior(1) 12-2-15 to 19-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 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) Bearing at joint(s) Q 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) B except (jt=lb) Q=144.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	D3	Half Hip	1	1	I42843786
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:48:54 2020 Page 1
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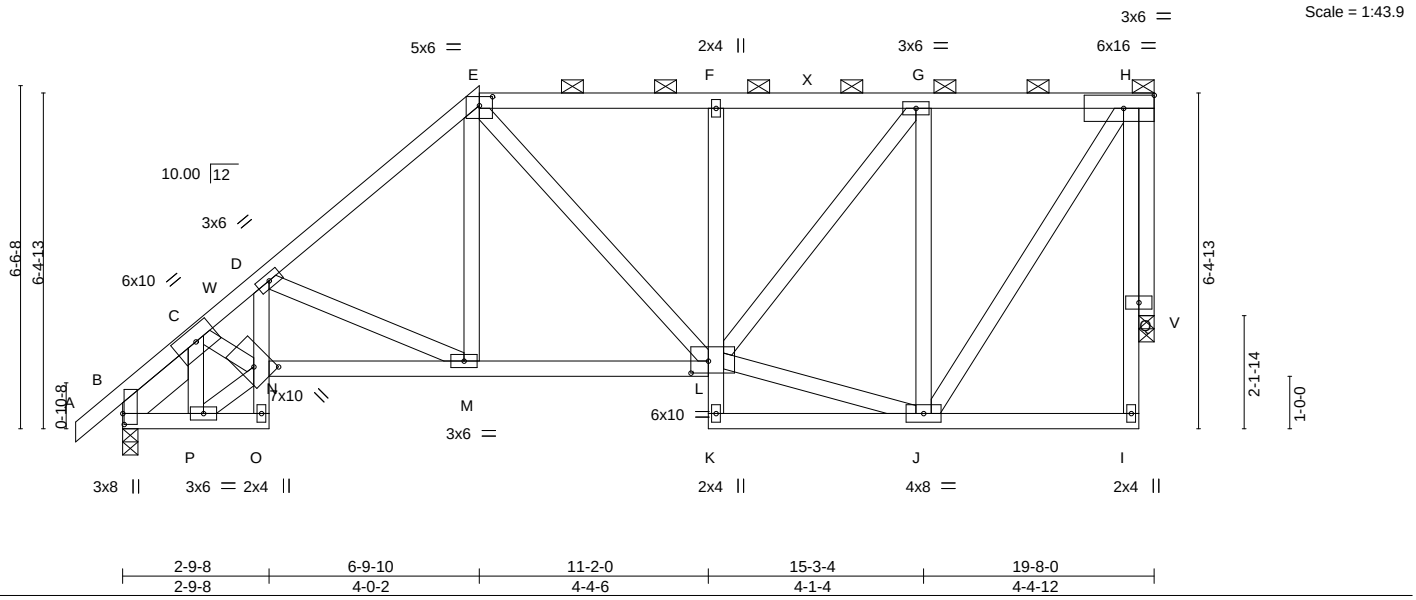

Plate Offsets (X,Y)-- [B:0-2-8,0-0-5], [E:0-3-0,0-2-1], [L:0-4-0,0-2-12], [N:0-4-0,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.06	L	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.09	L-M	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.10	V	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS							Weight: 156 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-O: 2x4 SP 2400F 2.0E
OTHERS 2x4 SP No.2
SLIDER Left 2x6 SP No.1 -x 1-9-1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-7 max.): E-H.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) B=0-3-8, V=0-3-8
Max Horz B=204(LC 12)
Max Uplift B=-61(LC 12), V=-145(LC 9)
Max Grav B=1210(LC 30), V=1334(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-466/69, C-D=-1686/205, D-E=-1363/152, E-F=-1241/149, F-G=-1252/151, G-H=-765/79
BOT CHORD B-P=-178/748, M-N=-296/1390, L-M=-165/1021
WEBS F-L=-613/128, D-M=-670/230, E-M=-31/385, E-L=-171/336, J-L=-112/755, G-L=-116/778, H-J=-136/1257, G-J=-1160/205, C-P=-520/128, N-P=-215/888, C-N=-131/708, H-V=-1338/145

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) -0-10-12 to 2-1-4, Interior(1) 2-1-4 to 2-6-11, Exterior(2R) 2-6-11 to 11-3-12, Interior(1) 11-3-12 to 19-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 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) Bearing at joint(s) V 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) B except (jt=lb) V=145.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	D4	Half Hip	1	1	I42843787
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:48:55 2020 Page 1
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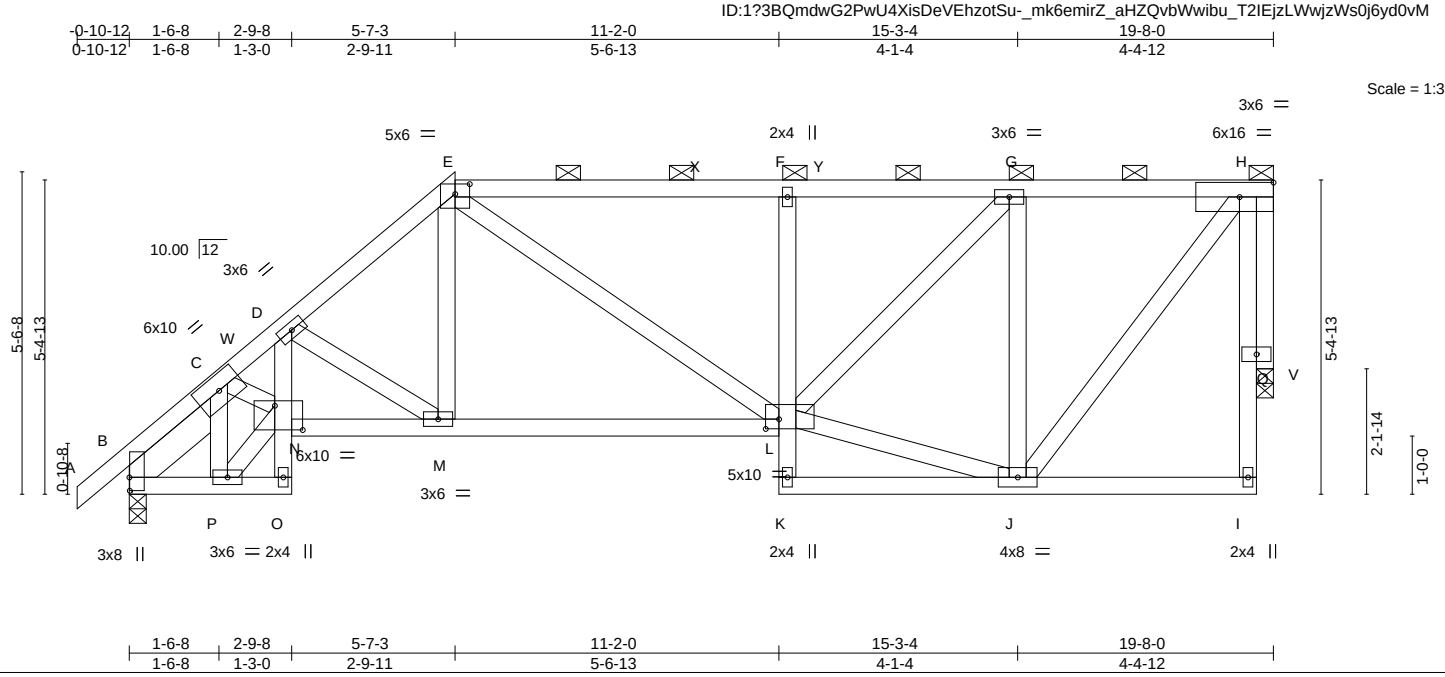


Plate Offsets (X,Y)-- [B:0-2-12,0-0-1], [E:0-3-0,0-2-1], [L:0-2-12,0-2-0], [N:0-5-12,0-5-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.08	L	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.14	L-M	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.12	V	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 145 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* E-H: 2x4 SP 1650F 1.5E
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.2
SLIDER	Left 2x6 SP No.1 -x 1-11-6

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-10-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-6 max.): E-H.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) B=0-3-8, V=0-3-8
Max Horz B=165(LC 12)
Max Uplift B=-58(LC 12), V=-145(LC 9)
Max Grav B=1130(LC 30), V=1371(LC 29)

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

TOP CHORD	B-C=-408/60, C-D=-2208/281, D-E=-1572/165, E-F=-1643/191, F-G=-1658/194, G-H=-939/93
BOT CHORD	B-P=-163/808, M-N=-324/1740, L-M=-183/1221
WEBS	D-N=-145/726, F-L=-732/150, C-P=-939/199, N-P=-251/1235, C-N=-160/955, D-M=-822/226, E-M=-19/374, E-L=-120/524, J-L=-126/924, G-L=-144/1018, G-J=-1231/206, H-J=-143/1370, H-V=-1379/146

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) -0-10-12 to 2-1-4, Exterior(2R) 2-1-4 to 9-10-2, Interior(1) 9-10-2 to 19-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 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) Bearing at joint(s) V 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) B except (jt=lb) V=145.
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 17,2020

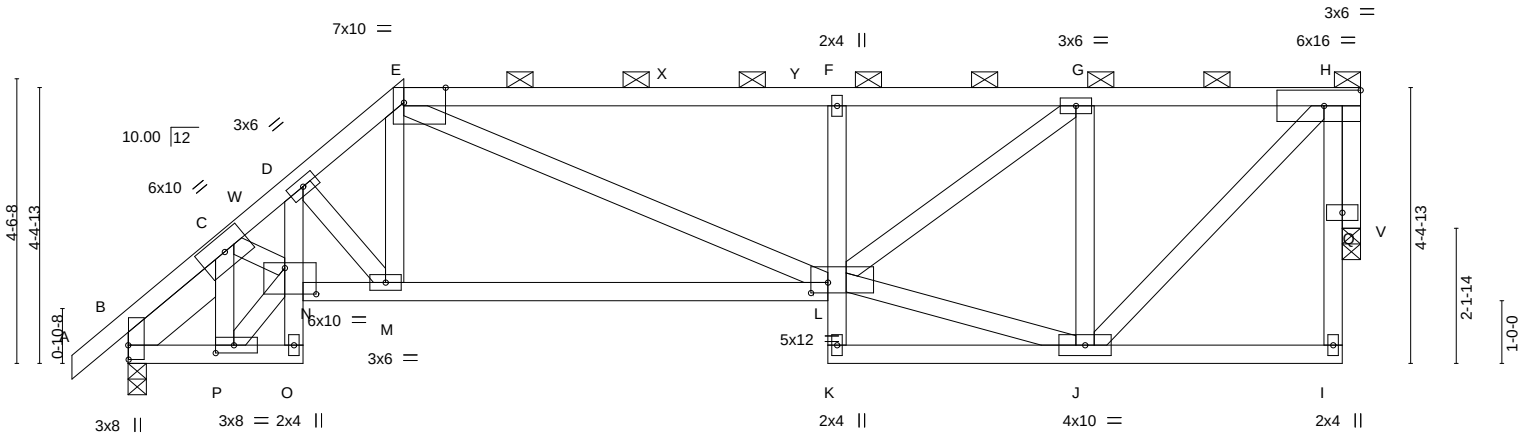
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	D5	Half Hip	1	1	I42843788
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:48:57 2020 Page 1
ID:1?3BQmdwG2PwU4XisDeVEhzotSu-w8rs3Sj64bq_ok2zdLk3zPYLI2NUpQ50RqL7o?yd0vK

-0-10-12	1-6-8	2-9-8	4-4-13	11-2-0	15-3-4	19-8-0
0-10-12	1-6-8	1-3-0	1-7-5	6-9-3	4-1-4	4-4-12

Scale = 1:36.8



1-6-8	2-9-8	4-4-13	11-2-0	15-3-4	19-8-0
1-6-8	1-3-0	1-7-5	6-9-3	4-1-4	4-4-12

Plate Offsets (X,Y)-- [B:0-2-12,0-0-1], [E:0-8-0,Edge], [L:0-3-4,0-2-0], [N:0-6-0,0-5-0], [P:0-3-8,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.10	L	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.19	L-M	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.12	V	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS							Weight: 135 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* E-H: 2x4 SP 2400F 2.0E
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.2
SLIDER	Left 2x6 SP No.1 -x 1-11-6

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-6-14 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-6 max.): E-H.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) B=0-3-8, V=0-3-8
Max Horz B=126(LC 12)
Max Uplift B=-74(LC 9), V=-145(LC 9)
Max Grav B=1144(LC 29), V=1402(LC 29)

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

TOP CHORD	B-C=-417/50, C-D=-2404/299, D-E=-1811/182, E-F=-2292/261, F-G=-2312/266, G-H=-1190/114
BOT CHORD	B-P=-159/884, M-N=-317/1888, L-M=-203/1486
WEBS	D-N=-202/917, F-L=-857/175, C-P=-1034/196, N-P=-245/1351, C-N=-144/1008, D-M=-629/166, E-M=0/359, E-L=-163/886, J-L=-145/1161, G-L=-191/1408, G-J=-1312/209, H-J=-156/1537, H-V=-1418/147

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) -0-10-12 to 2-1-4, Exterior(2R) 2-1-4 to 8-7-11, Interior(1) 8-7-11 to 19-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 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) Bearing at joint(s) V 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) B except (jt=lb) V=145.
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 17,2020

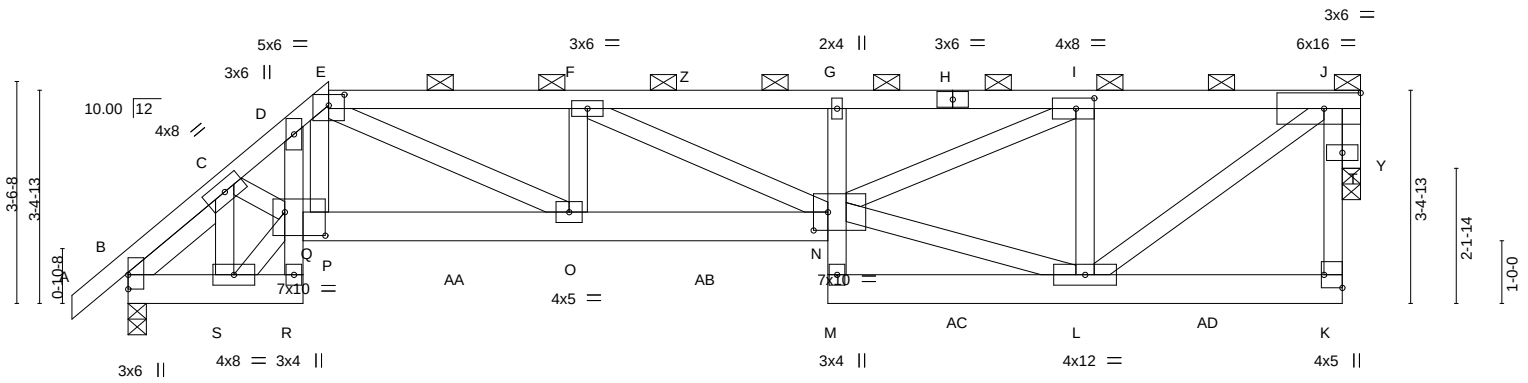
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	D6	Half Hip Girder	1	2	I42843789
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:00 2020 Page 1
ID:1?3BQmdwG2PwU4XisDeVEhzotSu-KjX?iUm_NWCZfBnYJTHmb2AtmFOr0jCS7nZnPJyd0vH

-0-10-12	1-6-8	2-9-8	3-2-6	7-2-3	11-2-0	15-3-4	19-8-0
0-10-12	1-6-8	1-3-0	0-4-14	3-11-13	3-11-13	4-1-4	4-4-12

Scale = 1:36.8



1-6-8	2-9-8	3-2-6	7-2-3	11-2-0	15-3-4	19-8-0
1-6-8	1-3-0	0-4-14	3-11-13	3-11-13	4-1-4	4-4-12

Plate Offsets (X,Y)-- [E:0-3-0,0-2-1], [I:0-3-8,0-2-0], [K:Edge,0-3-8], [N:0-2-12,0-3-8], [P:0-1-12,0-0-0], [Q:0-7-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.22	N-O	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.30	N-O	>770	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.11	Y	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS							Weight: 277 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
J-K: 2x4 SP No.2
OTHERS 2x4 SP No.2
SLIDER Left 2x4 SP No.3 -x 1-10-1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-3 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-13 max.): E-J.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) B=0-3-8, Y=0-3-8
Max Horz B=99(LC 42)
Max Uplift B=-453(LC 7), Y=-523(LC 7)
Max Grav B=2896(LC 27), Y=3339(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1853/308, C-D=-6168/1087, D-E=-5519/965, E-F=-7258/1183, F-G=-7681/1233, G-I=-7575/1217, I-J=-3682/570, K-T=-89/628, J-T=-89/628
BOT CHORD B-S=-448/2315, P-Q=-815/4413, O-P=-874/4738, N-O=-1213/7257, L-M=-49/314, K-L=-87/408
WEBS D-Q=-265/1332, G-N=-476/111, C-S=-2985/572, Q-S=-643/3314, C-Q=-443/2547, E-O=-464/2834, F-O=-818/158, F-N=-81/477, L-N=-566/3466, I-N=-723/4342, I-L=-2544/445, J-L=-645/4122, E-P=-253/1292, J-Y=-3468/544

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
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) Y 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) B=453, Y=523.

September 17,2020

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

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.
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) 698 lb down and 187 lb up at 3-2-6, 358 lb down and 81 lb up at 5-3-2, 358 lb down and 81 lb up at 7-3-2, 358 lb down and 81 lb up at 9-3-2, 358 lb down and 79 lb up at 11-3-12, 358 lb down and 79 lb up at 13-3-2, 358 lb down and 79 lb up at 15-3-2, and 358 lb down and 79 lb up at 17-3-2, and 368 lb down and 69 lb up at 19-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-E=-70, E-J=-70, R-U=-20, N-Q=-20, K-M=-20
   Concentrated Loads (lb)
   Vert: K=-368(B) O=-358(B) N=-358(B) L=-358(B) P=-698(B) AA=-358(B) AB=-358(B) AC=-358(B) AD=-358(B)

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	D7	Half Hip Girder	1	3	I42843790
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:03 2020 Page 1
ID:1?3BQmdwG2PwU4XisDeVEhzotSu-lIC8KWotgRa8WfW7_crTDgoMMTSkD3xuploR?eyd0vE

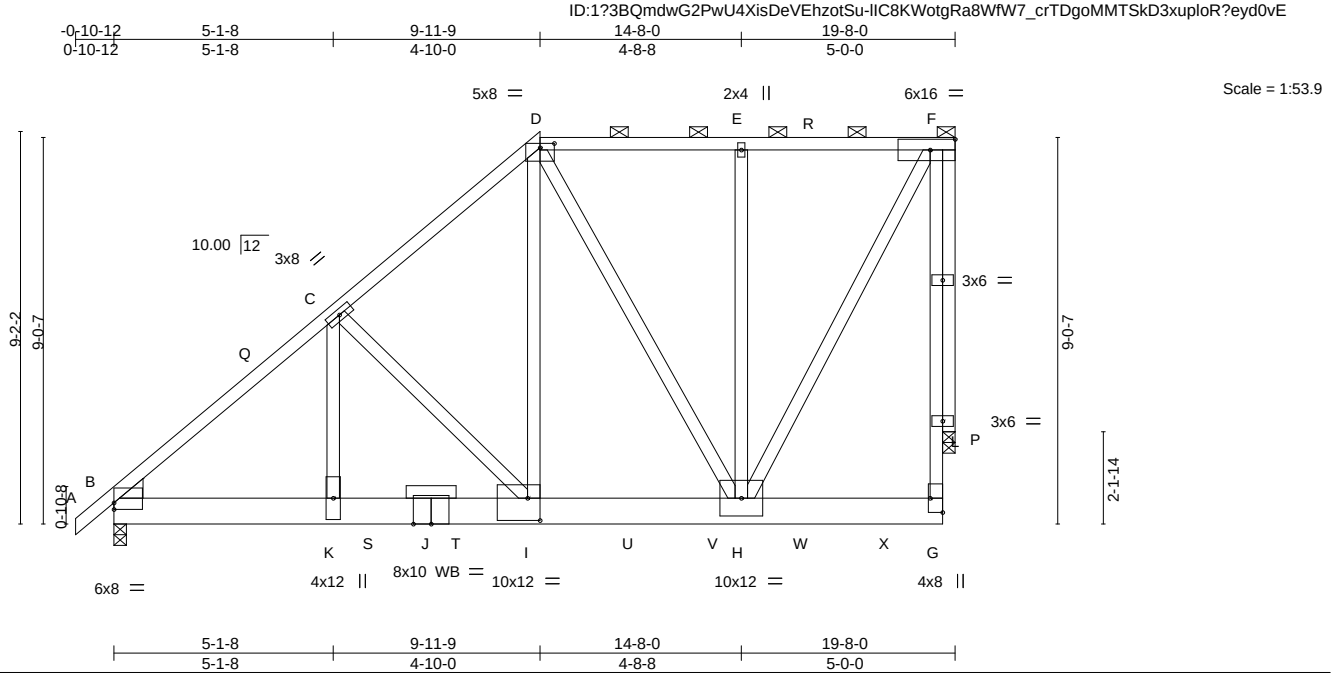

Plate Offsets (X,Y)-- [B:0-0-0,0-1-14], [D:0-4-0,0-1-4], [G:Edge,0-3-8], [I:0-3-8,0-6-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.12	I-K	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.19	I-K	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.06	P	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS							Weight: 563 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
F-H: 2x4 SP No.2
OTHERS 2x4 SP No.2 *Except*
J-J: 2x4 SP No.3
WEDGE
Left: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): D-F.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

PLY-TO-PLY CONNECTION REQUIRES THAT AN APPROVED FACE MOUNT HANGER (SPECIFIED BY OTHERS) IS REQUIRED FOR LOADS REPORTED IN NOTES. FACE MOUNT HANGER SHALL BE ATTACHED WITH A MINIMUM OF 0.148"x 3" NAILS PER HANGER MANUFACTURER SPECIFICATIONS.

REACTIONS. (size) B=0-3-8, P=0-3-8
Max Horz B=310(LC 45)
Max Uplift B=-1038(LC 10), P=-1095(LC 7)
Max Grav B=7493(LC 28), P=8324(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-10264/1471, C-D=-7297/1003, D-E=-3938/527, E-F=-3936/526, G-L=-136/1299, F-L=-136/1299
BOT CHORD B-K=-1311/7673, I-K=-1311/7673, H-I=-803/5369, G-H=-82/343
WEBS C-K=-680/3541, C-I=-3079/724, D-I=-1067/6979, D-H=-3294/601, E-H=-722/151, F-H=-1028/7663, F-P=-8332/1096

NOTES-
1) n/a
2) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 4 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
3) 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.
4) 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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
6) Unbalanced snow loads have been considered for this design.
7) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
8) Provide adequate drainage to prevent water ponding.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Bearing at joint(s) P considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

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September 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1038, P=1095.
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.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4524 lb down and 953 lb up at 6-0-8, 1609 lb down and 178 lb up at 8-1-4, 1609 lb down and 178 lb up at 10-1-4, 1366 lb down and 172 lb up at 12-1-4, 1373 lb down and 171 lb up at 14-1-4, and 1373 lb down and 171 lb up at 16-1-4, and 1373 lb down and 171 lb up at 18-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-D=-70, D-F=-70, G-M=-20
   Concentrated Loads (lb)
   Vert: I=-1609(F) S=-4524(F) T=-1609(F) U=-1366(F) V=-1373(F) W=-1373(F) X=-1373(F)

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	E1	Scissor	4	1	I42843791
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:04 2020 Page 1
ID:1?3BQmdwG2PwU4XisDeVEhzotSu-DUmWXrpVRIi?8p5KYJMimtKZytidybm22PX?Y5yd0vD

-0-10-12	4-6-2	8-8-12	12-10-14	17-4-8	18-3-4
0-10-12	4-6-2	4-2-10	4-2-2	4-5-10	0-10-12

Scale = 1:51.2

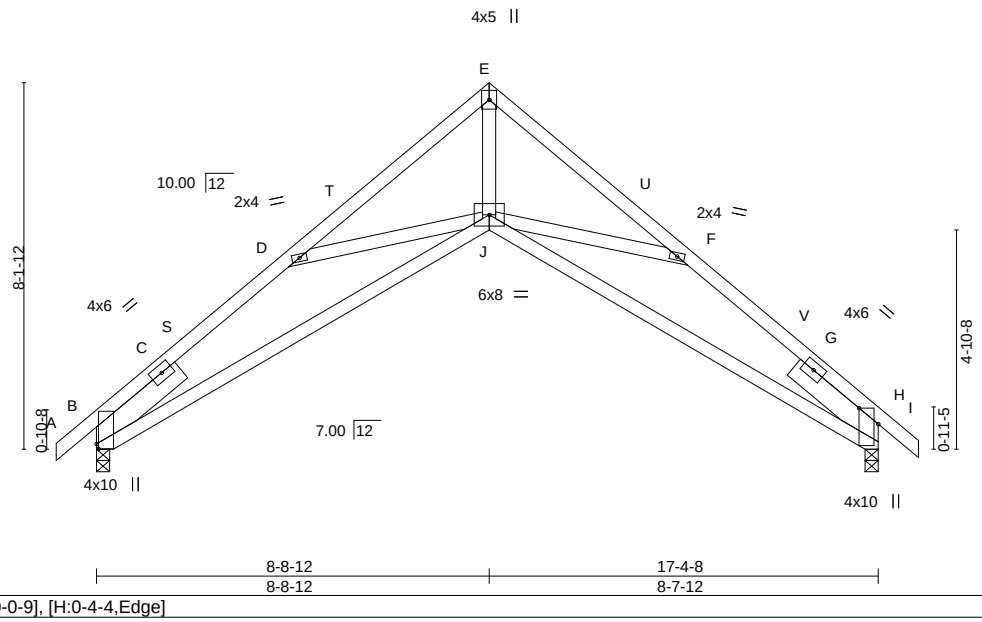

Plate Offsets (X,Y)-- [B:0-1-5,0-0-9], [H:0-4-4,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.17	J	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.28	J-M	>753	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.38	H	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS							Weight: 97 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
SLIDER Left 2x6 SP No.1 -x 2-6-0, Right 2x6 SP No.1 -x 2-6-0

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

REACTIONS. (size) B=0-3-8, H=0-3-8
Max Horz B=-199(LC 10)
Max Uplift B=-82(LC 12), H=-81(LC 13)
Max Grav B=919(LC 19), H=917(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-2141/322, D-E=-1731/81, E-F=-1724/116, F-H=-2111/173
BOT CHORD B-J=-326/1782, H-J=-87/1752
WEBS D-J=-291/316, E-J=-16/1621, F-J=-268/377

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) -0-10-12 to 2-1-4, Interior(1) 2-1-4 to 5-8-12, Exterior(2R) 5-8-12 to 11-8-12, Interior(1) 11-8-12 to 15-3-4, Exterior(2E) 15-3-4 to 18-3-4 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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) 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) B, H 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) B, H.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	E2	Scissor	2	1	I42843792
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:05 2020 Page 1
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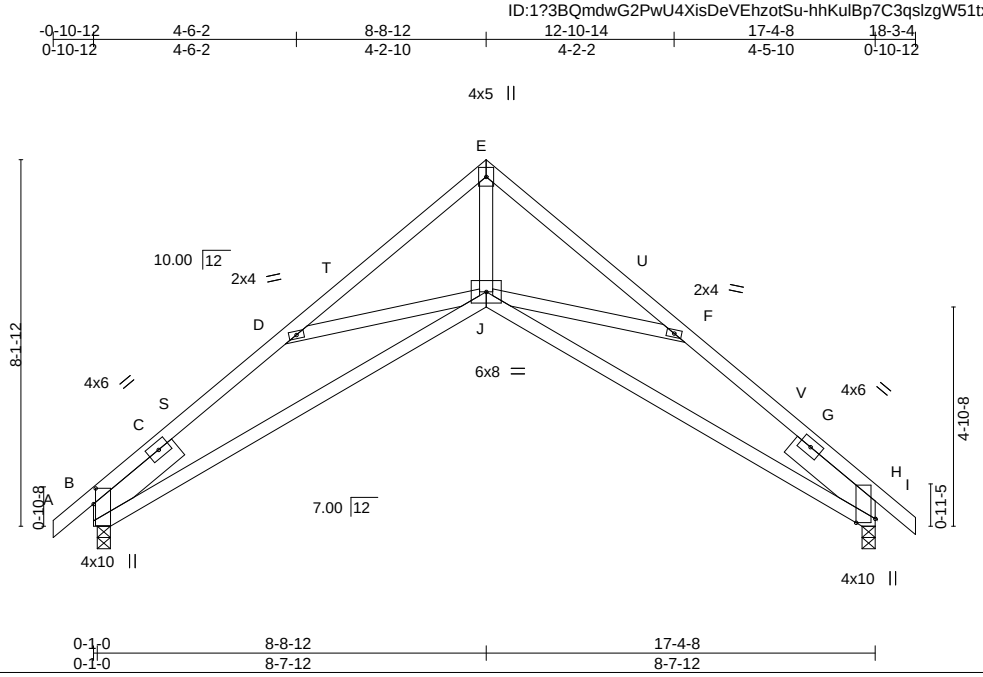

Plate Offsets (X,Y)-- [B:0-4-3,0-0-9], [H:0-1-1,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.17	J	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.28	J-Q	>753	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.38	H	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS							Weight: 97 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
SLIDER Left 2x6 SP No.1 -x 2-6-0, Right 2x6 SP No.1 -x 2-6-0

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

REACTIONS. (size) H=0-3-8, B=0-3-8
Max Horz B=-199(LC 10)
Max Uplift H=-81(LC 13), B=-82(LC 12)
Max Grav H=917(LC 20), B=919(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-2141/322, D-E=-1731/81, E-F=-1724/116, F-H=-2111/173
BOT CHORD B-J=-326/1782, H-J=-87/1752
WEBS D-J=-291/316, E-J=-16/1621, F-J=-268/377

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) -0-10-12 to 2-1-4, Interior(1) 2-1-4 to 5-8-12, Exterior(2R) 5-8-12 to 11-8-12, Interior(1) 11-8-12 to 15-3-4, Exterior(2E) 15-3-4 to 18-3-4 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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) 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) H, B 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) H, B.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	E3	Scissor	16	1	I42843793
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:06 2020 Page 1
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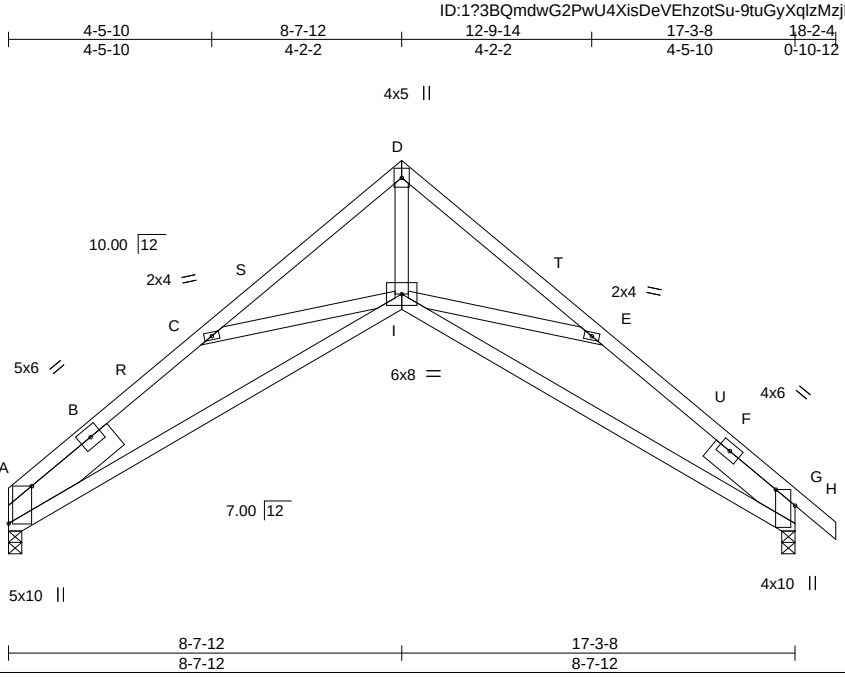

Plate Offsets (X,Y)-- [A:0-9-14,Edge], [G:0-4-4,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.16	I	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.26	I-L	>801	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.36	G	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS							Weight: 98 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	D-H: 2x4 SP 1650F 1.5E
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP 2400F 2.0E -x 3-0-13, Right 2x6 SP No.1 -x 2-6-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) A=0-3-8, G=0-3-8
Max Horz A=-192(LC 8)
Max Uplift A=-62(LC 12), G=-81(LC 13)
Max Grav A=850(LC 19), G=915(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-C=-2128/310, C-D=-1723/81, D-E=-1713/114, E-G=-2105/172
BOT CHORD A-I=-307/1793, G-I=-86/1748
WEBS C-I=-311/303, D-I=-16/1618, E-I=-273/377

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 5-7-12, Exterior(2R) 5-7-12 to 11-7-12, Interior(1) 11-7-12 to 15-2-4, Exterior(2E) 15-2-4 to 18-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) 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) A, G 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) A, G.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	E4	Roof Special	1	1	I42843794
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:07 2020 Page 1
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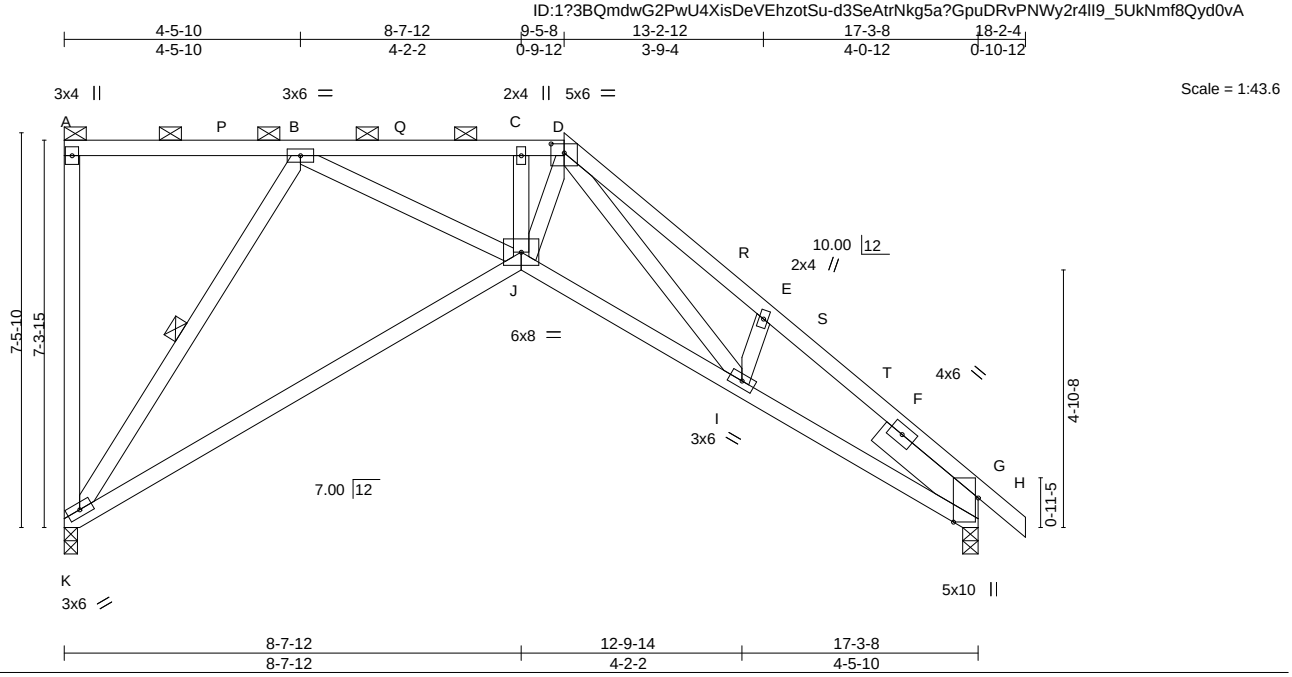

Plate Offsets (X,Y)-- [D:0-3-0,0-2-1], [G:0-5-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.23	J-K	>899	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.48	J-K	>432	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.28	G	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS							Weight: 112 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
SLIDER Right 2x6 SP No.1 -x 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-2 max.): A-D.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt B-K

REACTIONS. (size) K=0-3-0, G=0-3-8
Max Horz K=-274(LC 10)
Max Uplift K=-153(LC 8), G=-76(LC 13)
Max Grav K=1138(LC 29), G=1189(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1993/88, C-D=-1996/90, D-E=-2147/207, E-G=-2322/124
BOT CHORD J-K=-190/959, I-J=-54/1799, G-I=-5/1861
WEBS B-K=-1492/111, B-J=0/1350, C-J=-367/118, D-J=-174/1351, D-I=-519/436

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 6-5-8, Exterior(2R) 6-5-8 to 12-5-8, Interior(1) 12-5-8 to 15-2-4, Exterior(2E) 15-2-4 to 18-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 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) Bearing at joint(s) K, G 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) G except (jt=lb) K=153.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	E5	Roof Special	1	1	I42843795
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:08 2020 Page 1
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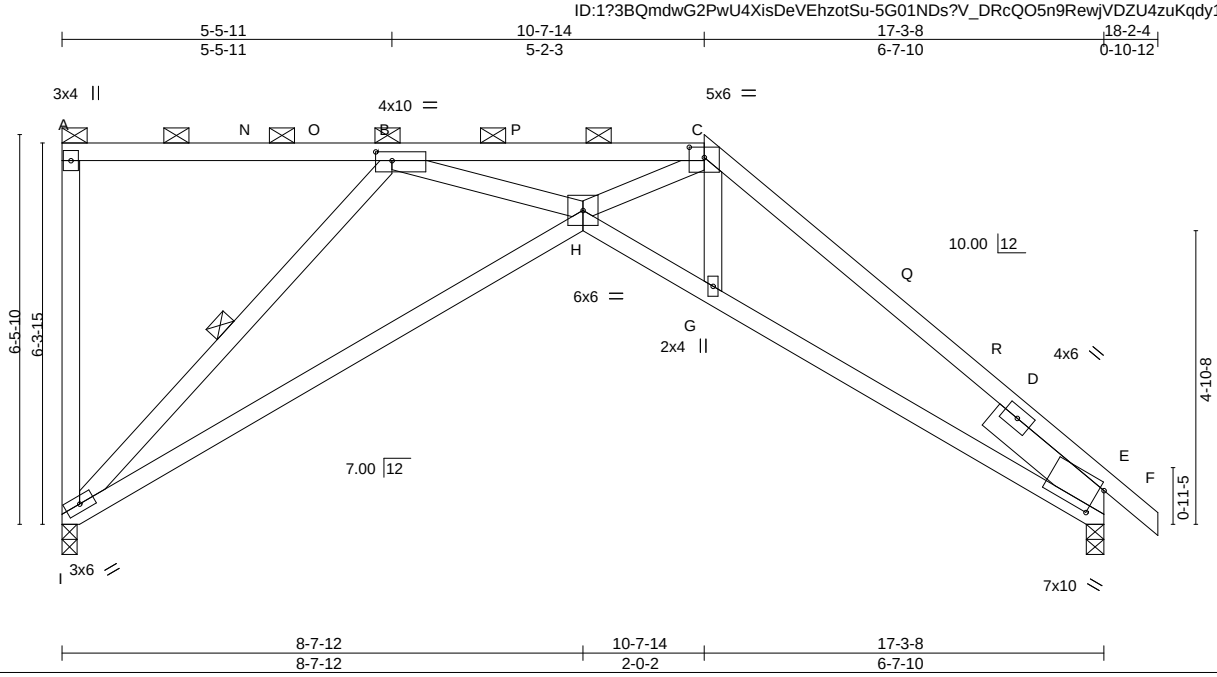

Plate Offsets (X,Y)-- [B:0-3-4,0-1-12], [C:0-3-0,0-2-1], [E:0-0-15,0-5-9]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.30	G-H	>696	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.44	H-I	>471	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.55	E	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS							Weight: 98 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
C-H: 2x4 SP No.2
SLIDER Right 2x6 SP No.1 -x 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-8-8 max.): A-C.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt B-I

REACTIONS. (size) I=0-3-0, E=0-3-8
Max Horz I=-236(LC 10)
Max Uplift I=-147(LC 8), E=-72(LC 13)
Max Grav I=1188(LC 29), E=1121(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-I=-296/63, B-C=-3721/173, C-E=-2162/84
BOT CHORD H-I=-270/1744, G-H=-31/1935, E-G=-9/1810
WEBS B-I=-2212/214, B-H=0/2381, C-H=-194/2443

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 7-7-14, Exterior(2R) 7-7-14 to 13-7-14, Interior(1) 13-7-14 to 15-2-4, Exterior(2E) 15-2-4 to 18-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 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) Bearing at joint(s) I, E 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) E except (jt=lb) I=147.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	F1	Common	2	1	I42843796
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:09 2020 Page 1
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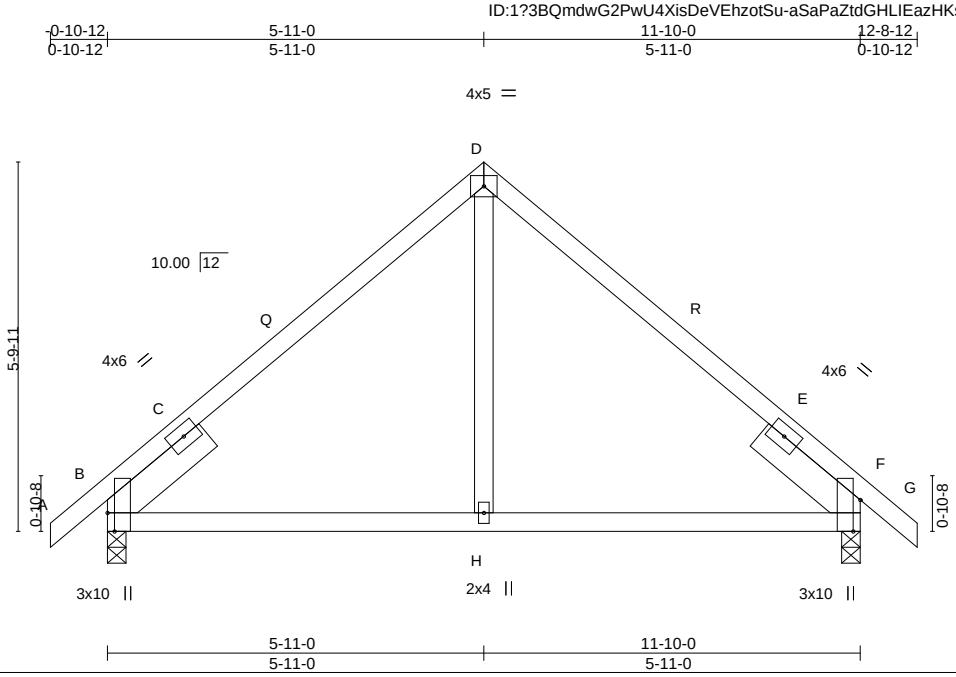

Plate Offsets (X,Y)-- [B:0-3-8,Edge], [F:0-5-15,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.08	H-O	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.11	H-O	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.04	B	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 62 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.1 -x 2-0-0, Right 2x6 SP No.1 -x 2-0-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) B=0-3-8, F=0-3-8
Max Horz B=141(LC 11)
Max Uplift B=-62(LC 12), F=-62(LC 13)
Max Grav B=717(LC 19), F=717(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-503/170, D-F=-503/170
BOT CHORD B-H=0/354, F-H=0/354
WEBS D-H=-10/257

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) -0-10-12 to 2-1-4, Interior(1) 2-1-4 to 2-11-0, Exterior(2R) 2-11-0 to 8-11-0, Interior(1) 8-11-0 to 9-8-12, Exterior(2E) 9-8-12 to 12-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) 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) B, F.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	F2	Roof Special Girder	1	3	I42843797
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:11 2020 Page 1
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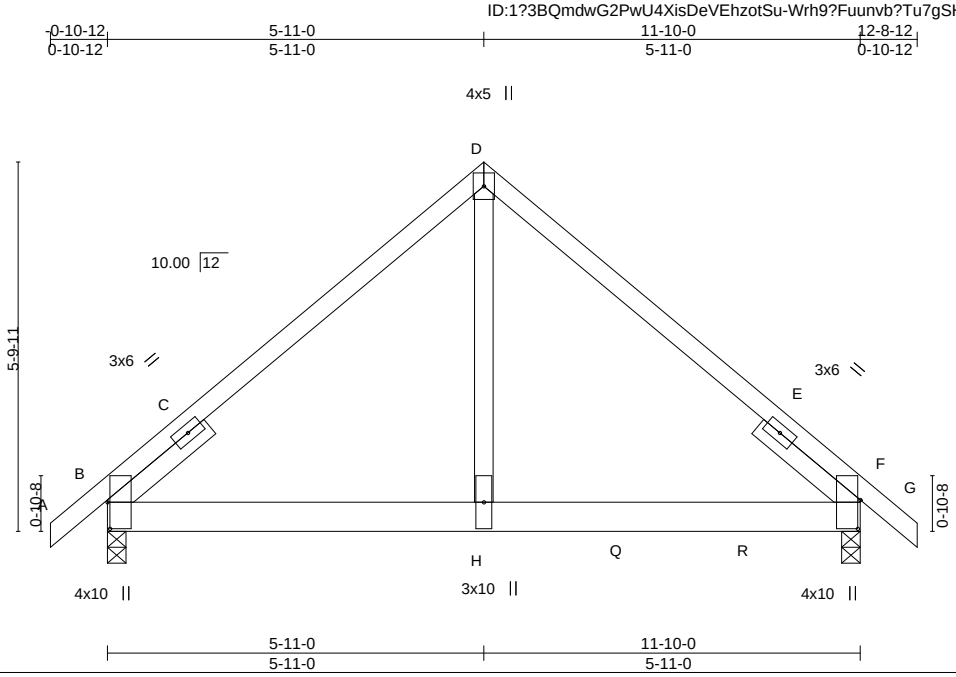

Plate Offsets (X,Y)-- [B:0-5-0,0-0-7], [F:0-5-7,0-0-7]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.11	H-O	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.17	H-O	>830	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	-0.02	B	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS							Weight: 204 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -x 2-0-0, Right 2x4 SP No.3 -x 2-0-0

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

REACTIONS. (size) B=0-3-8, F=0-3-8
Max Horz B=141(LC 29)
Max Uplift B=-626(LC 10), F=-835(LC 11)
Max Grav B=3847(LC 17), F=5747(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-5325/926, D-F=-5097/918
BOT CHORD B-H=-617/3916, F-H=-617/3916
WEBS D-H=-1045/6190

NOTES-
1) 3-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 0-4-0 oc.
Webs connected as follows: 2x4 - 2 rows staggered at 0-4-0 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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
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 25.0 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) B=626, F=835.
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) 4641 lb down and 957 lb up at 6-0-8, and 1764 lb down and 201 lb up at 8-1-4, and 1764 lb down and 201 lb up at 10-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-D=-70, D-G=-70, I-M=-20
   Concentrated Loads (lb)
   Vert: H=-4641(B) Q=-1764(B) R=-1764(B)

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	F3	Common Structural Gable	1	1	I42843798
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:12 2020 Page 1
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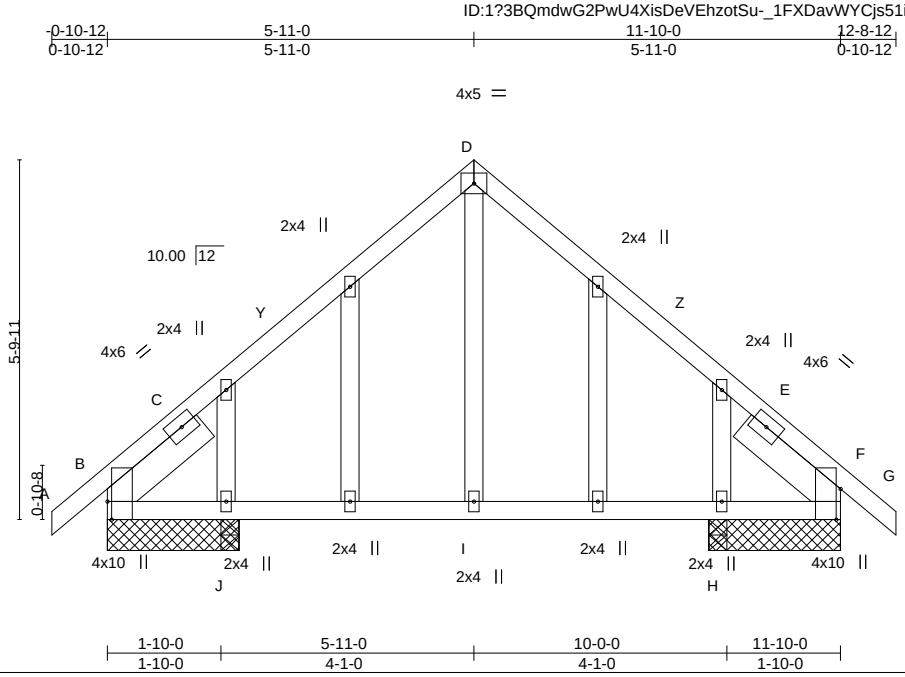

Plate Offsets (X,Y)-- [B:0-3-8,Edge], [F:0-5-15,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.02	H-W	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.02	H-W	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.02	B	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 78 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
SLIDER Left 2x6 SP No.1 -x 2-0-0, Right 2x6 SP No.1 -x 2-0-0

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

REACTIONS. All bearings 2-1-8.
(lb) - Max Horz B=141(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) B, F except J=-128(LC 12), H=-126(LC 13)
Max Grav All reactions 250 lb or less at joint(s) J, H except B=433(LC 19), F=433(LC 20), J=325(LC 19), H=325(LC 20), B=408(LC 1), F=408(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-394/682, D-F=-394/682
BOT CHORD B-J=0/258, I-J=0/258, H-I=0/258, F-H=0/258

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) -0-10-12 to 2-1-4, Interior(1) 2-1-4 to 2-11-0, Exterior(2R) 2-11-0 to 8-11-0, Interior(1) 8-11-0 to 9-8-12, Exterior(2E) 9-8-12 to 12-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, F, B, F except (jt=lb) J=128, H=126.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	G1	Diagonal Hip Girder	1	1	I42843799
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:13 2020 Page 1
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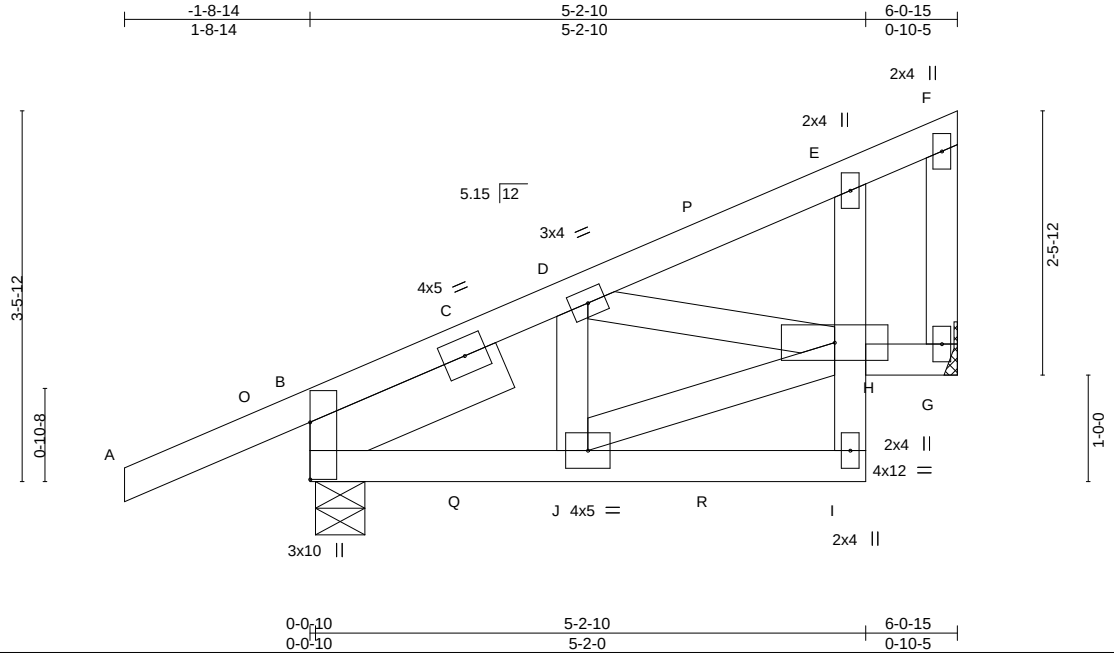

Plate Offsets (X,Y)-- [B:Edge,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.05	I	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.07	I	>955	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.02	G	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 42 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
E-I: 2x4 SP No.3
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.1 -x 2-0-0

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: B-J.

REACTIONS. (size) G=Mechanical, B=0-5-9
Max Horz B=113(LC 7)
Max Uplift G=-83(LC 10), B=-99(LC 10)
Max Grav G=363(LC 17), B=522(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-356/237, F-G=-355/87
BOT CHORD B-J=-104/349, E-H=-61/265
WEBS H-J=-111/370, D-H=-370/126

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G, B.
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) 43 lb down and 130 lb up at 1-5-13, and 56 lb down and 51 lb up at 2-3-15, and 64 lb down and 45 lb up at 3-9-13 on top chord, and 7 lb down and 13 lb up at 1-5-13, and 9 lb down and 8 lb up at 2-3-15, and 18 lb down and 27 lb up at 3-9-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-F=-70, I-K=-20, G-H=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: J=-9(B) C=24(F) P=-0(F) Q=2(F) R=-9(F)

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	G2	Roof Special	4	1	I42843800
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:14 2020 Page 1
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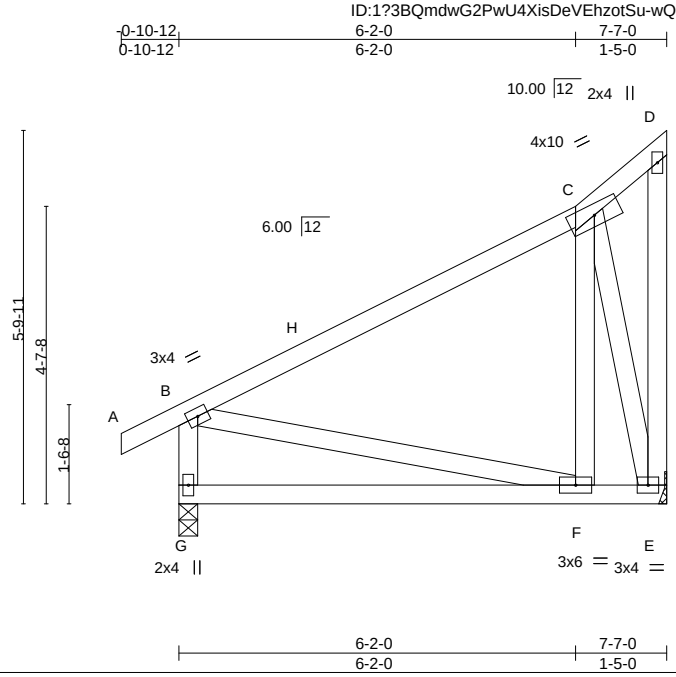

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.05	F-G	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.09	F-G	>934	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	-0.00	E	n/a	n/a		
BCLL	0.0	Code IRC2018/TPI2014		Matrix-MP							Weight: 57 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E *Except* C-D: 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.

REACTIONS. (size) G=0-3-8, E=Mechanical
Max Horz G=216(LC 11)
Max Uplift G=-43(LC 12), E=-88(LC 12)
Max Grav G=550(LC 19), E=424(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-260/39, B-G=-500/178
WEBS C-F=0/289, C-E=-450/146

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) -0-10-12 to 2-1-4, Interior(1) 2-1-4 to 6-2-0, Exterior(2E) 6-2-0 to 7-5-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G, E.
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.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	G3	Jack-Closed	11	1	I42843801
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:14 2020 Page 1
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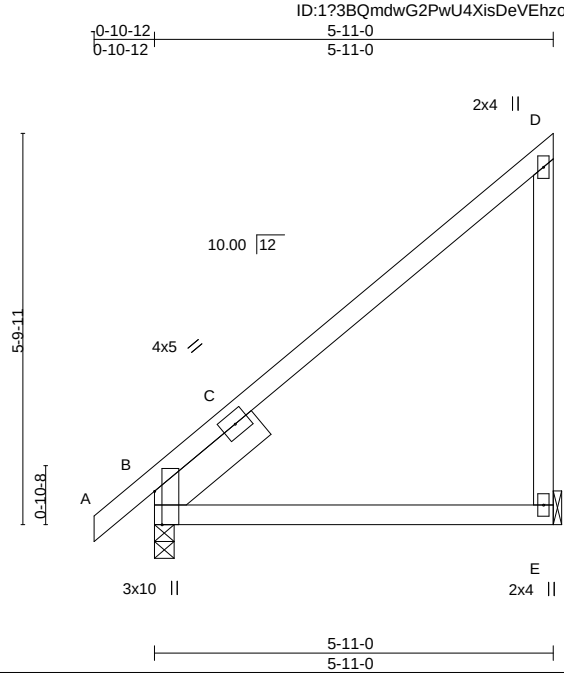

Plate Offsets (X,Y)-- [B:0-5-15,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.13	E-H	>523	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.20	E-H	>345	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.07	B	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 35 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.1 -x 2-0-0

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

REACTIONS. (size) E=Mechanical, B=0-3-8
Max Horz B=210(LC 11)
Max Uplift E=-91(LC 12), B=-15(LC 12)
Max Grav E=400(LC 19), B=421(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-291/201, D-E=-293/116

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, B.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	G4	Jack-Closed	5	1	I42843802
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:15 2020 Page 1
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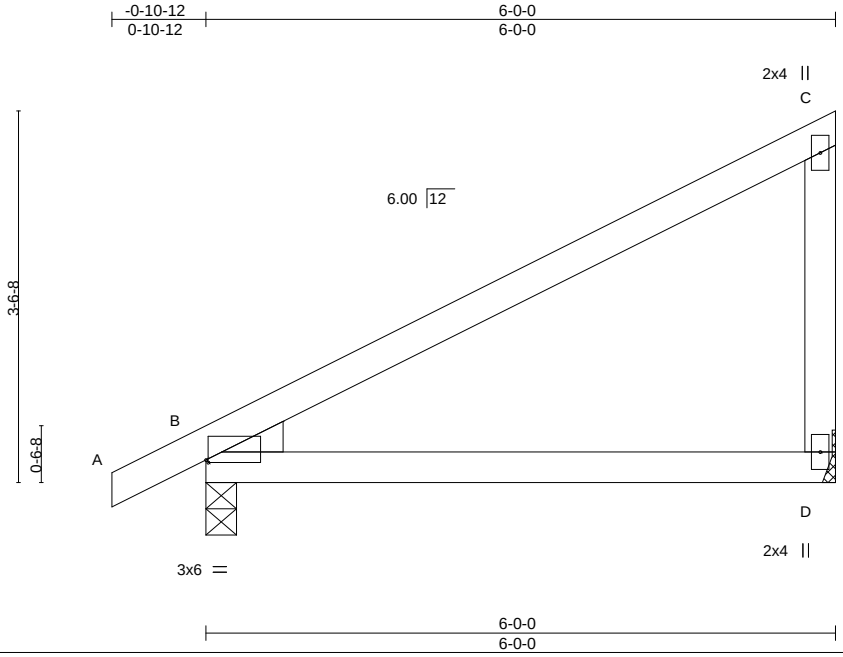

Plate Offsets (X,Y)-- [B:0-0-4,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.10	D-G	>675	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.17	D-G	>404	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	B	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 26 lb	FT = 20%
BCDL	10.0											

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

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

REACTIONS. (size) D=Mechanical, B=0-3-8
Max Horz B=131(LC 11)
Max Uplift D=-59(LC 12), B=-47(LC 12)
Max Grav D=378(LC 19), B=450(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-284/142

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, B.
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.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	G5	Jack-Closed	4	1	I42843803
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:15 2020 Page 1
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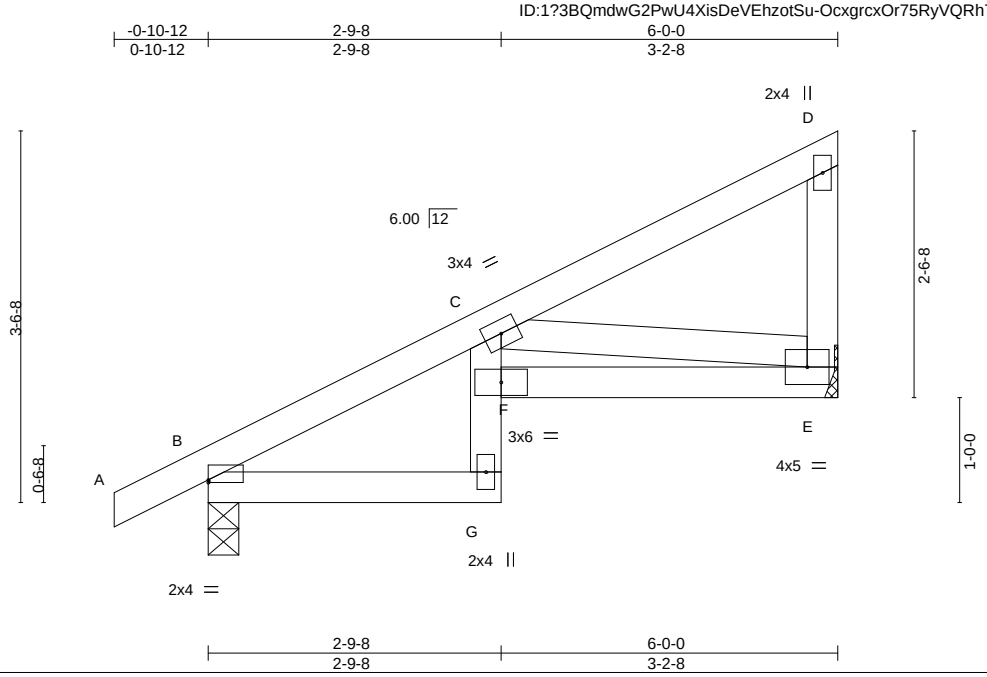

Plate Offsets (X,Y)-- [B:0-0-0,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.05	G	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.07	G	>998	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.05	E	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 30 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 9-1-8 oc bracing.

REACTIONS. (size) E=Mechanical, B=0-3-8
Max Horz B=112(LC 9)
Max Uplift E=-61(LC 12), B=-46(LC 12)
Max Grav E=378(LC 19), B=450(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-465/106
BOT CHORD B-G=-149/350, E-F=-416/979
WEBS C-E=-993/466

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) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, B.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	G6	Jack-Open	1	1	I42843804
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:16 2020 Page 1
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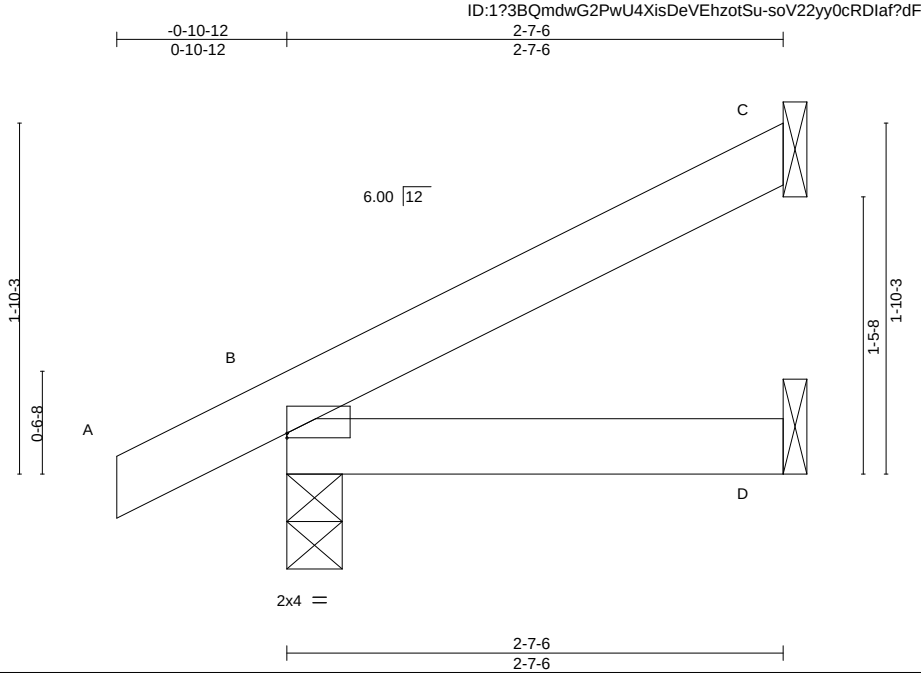

Plate Offsets (X,Y)-- [B:0-0-0,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.00	D-G	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	D-G	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	B	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 10 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-7-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) C=Mechanical, B=0-3-8, D=Mechanical
Max Horz B=65(LC 12)
Max Uplift C=-38(LC 12), B=-25(LC 12)
Max Grav C=109(LC 19), B=268(LC 19), D=46(LC 5)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C, B.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	G7	Jack-Open	1	1	I42843805
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:17 2020 Page 1
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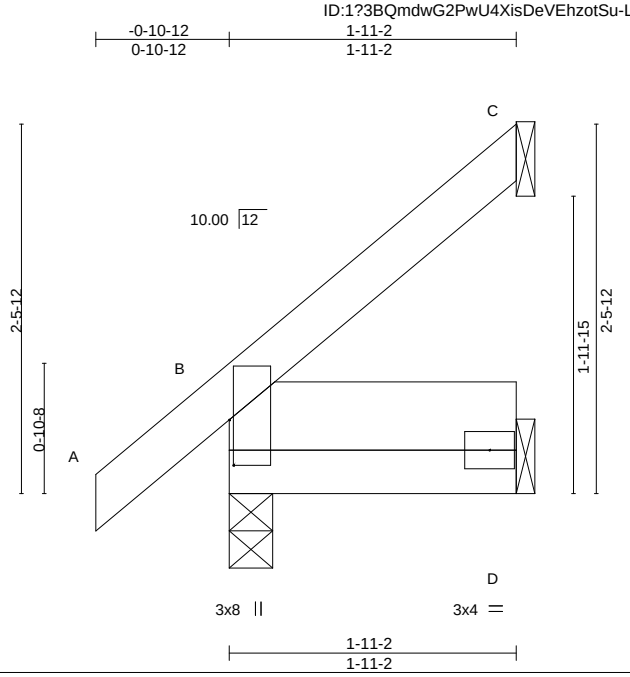

Plate Offsets (X,Y)-- [B:0-3-11,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	0.00	G	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.00	G	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	C	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x6 SP No.1 -x 1-11-2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) C=Mechanical, B=0-3-8, D=Mechanical
Max Horz B=87(LC 12)
Max Uplift C=-41(LC 12), D=-15(LC 12)
Max Grav C=72(LC 19), B=246(LC 19), D=39(LC 5)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C, D.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	G8	Jack-Open	1	1	I42843806
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:18 2020 Page 1
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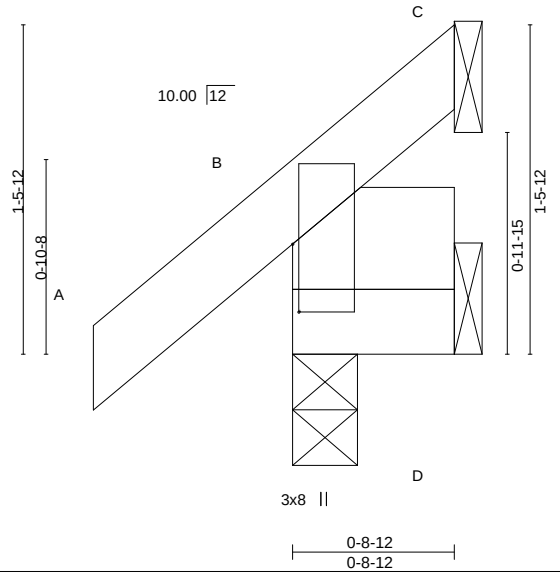

Plate Offsets (X,Y)-- [B:0-3-11,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	0.00	E	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	E	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	C	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 6 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x6 SP No.1 -x 0-8-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 0-8-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) C=Mechanical, B=0-3-8, D=Mechanical
Max Horz B=48(LC 12)
Max Uplift C=-30(LC 18), B=-3(LC 12), D=-23(LC 18)
Max Grav C=7(LC 10), B=189(LC 18), D=10(LC 5)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C, B, D.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	V1	Valley	1	1	I42843807
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:20 2020 Page 1
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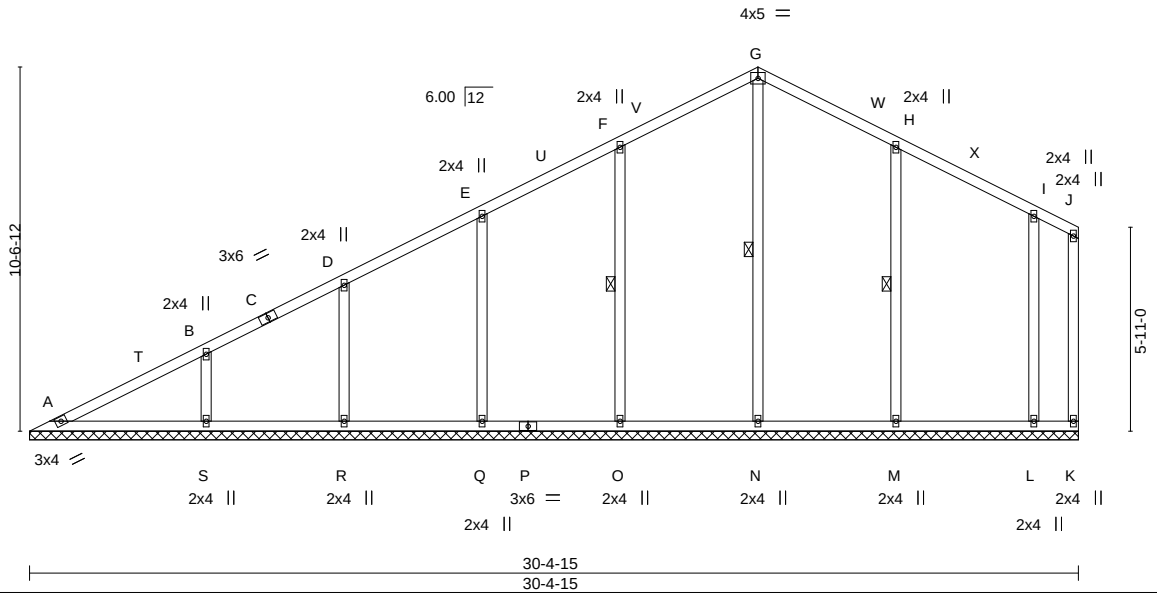

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	-0.00	K	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 169 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.
WEBS	1 Row at midpt G-N, F-O, H-M

REACTIONS. All bearings 30-4-15.
(lb) - Max Horz A=282(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) K, A, Q, R, L except O=-109(LC 12), S=-121(LC 12), M=-114(LC 13)
Max Grav All reactions 250 lb or less at joint(s) K, A except N=345(LC 18), O=542(LC 18), Q=365(LC 18), R=337(LC 1), S=442(LC 18), M=560(LC 19), L=299(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD F-G=-170/253, G-H=-171/254
WEBS G-N=-265/31, F-O=-462/157, E-Q=-283/146, D-R=-265/140, B-S=-334/171, H-M=-478/162

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) 0-7-7 to 3-7-15, Interior(1) 3-7-15 to 18-0-15, Exterior(2R) 18-0-15 to 24-1-15, Interior(1) 24-1-15 to 27-2-11, Exterior(2E) 27-2-11 to 30-3-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) K, A, Q, R, L except (jt=lb) O=109, S=121, M=114.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	V2	Valley	1	1	I42843808
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:22 2020 Page 1
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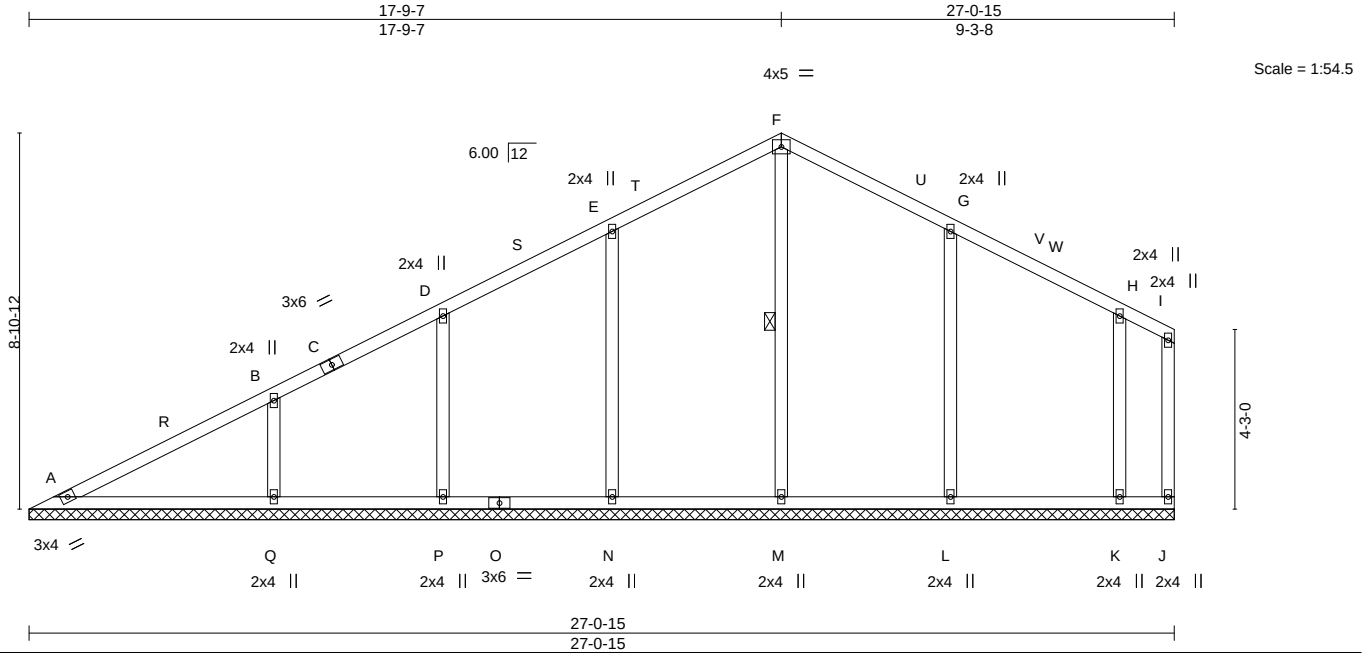

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	-0.00	J	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 138 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.
WEBS	1 Row at midpt F-M

REACTIONS. All bearings 27-0-15.
(lb) - Max Horz A=215(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) J, A, P, K except N=-112(LC 12), Q=-135(LC 12), L=-113(LC 13)
Max Grav All reactions 250 lb or less at joint(s) J, A except M=341(LC 18), N=555(LC 18), P=315(LC 18), Q=492(LC 1), L=556(LC 19), K=296(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS F-M=-263/15, E-N=-471/161, B-Q=-370/189, G-L=-473/162

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) 0-7-7 to 3-7-7, Interior(1) 3-7-7 to 14-9-7, Exterior(2R) 14-9-7 to 20-9-7, Interior(1) 20-9-7 to 23-11-3, Exterior(2E) 23-11-3 to 26-11-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) J, A, P, K except (jt=lb) N=112, Q=135, L=113.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	V3	Valley	1	1	I42843809
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:23 2020 Page 1
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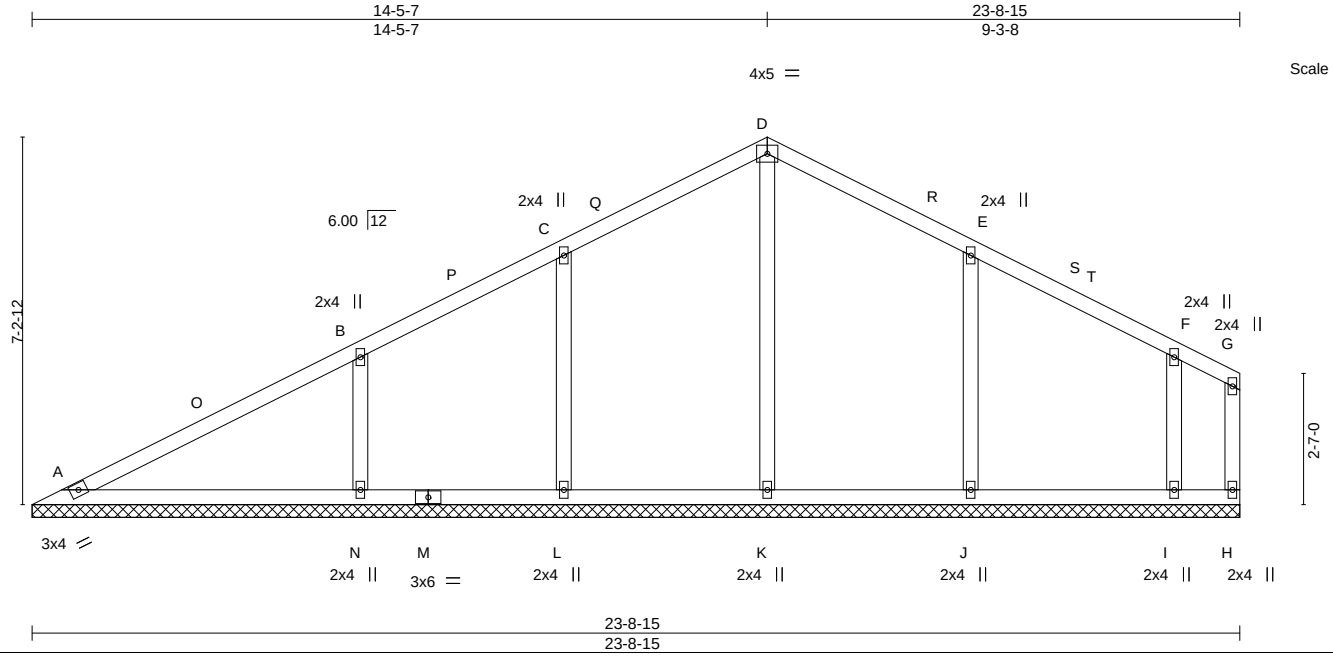

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.27	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	-0.00	H	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 109 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 23-8-15.
(lb) - Max Horz A=149(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) A, H, L, I except N=-146(LC 12), J=-113(LC 13)
Max Grav All reactions 250 lb or less at joint(s) A, H except K=358(LC 18), L=480(LC 18), N=542(LC 18), J=553(LC 19), I=297(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS D-K=-273/4, C-L=-420/137, B-N=-406/205, E-J=-472/162

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) 0-7-7 to 3-7-7, Interior(1) 3-7-7 to 11-5-7, Exterior(2R) 11-5-7 to 17-5-7, Interior(1) 17-5-7 to 20-7-3, Exterior(2E) 20-7-3 to 23-7-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, H, L, I except (jt=lb) N=146, J=113.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	V4	Valley	1	1	I42843810
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:24 2020 Page 1
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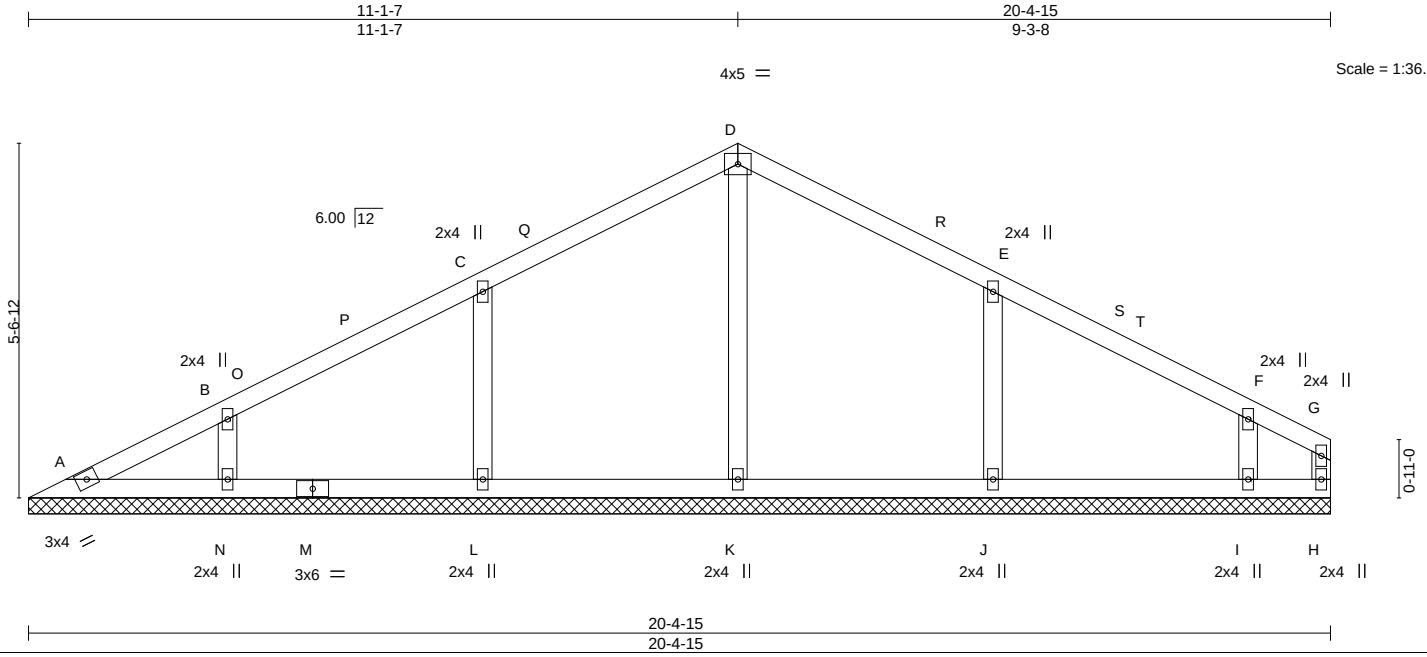

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	H	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 84 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 20-4-15.
(lb) - Max Horz A=90(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) A, H, N except L=-112(LC 12), J=-112(LC 13), I=-105(LC 13)
Max Grav All reactions 250 lb or less at joint(s) A, H except K=330(LC 19), L=553(LC 18), N=323(LC 18), J=556(LC 19), I=291(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS D-K=-251/0, C-L=-471/162, E-J=-473/162

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) 0-7-7 to 3-7-7, Interior(1) 3-7-7 to 8-1-7, Exterior(2R) 8-1-7 to 14-1-7, Interior(1) 14-1-7 to 17-3-3, Exterior(2E) 17-3-3 to 20-3-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, H, N except (jt=lb) L=112, J=112, I=105.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	V5	Valley	1	1	I42843811
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:25 2020 Page 1
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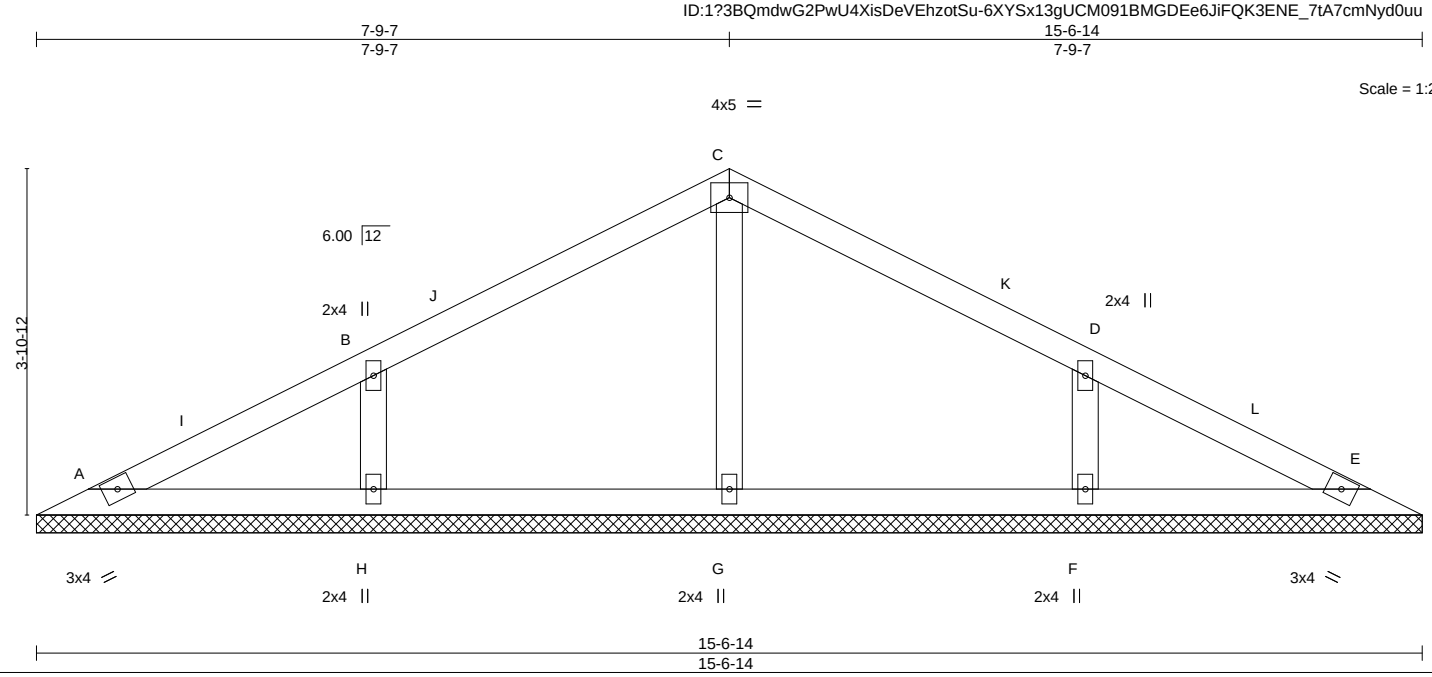

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	E	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 56 lb	FT = 20%
BCDL	10.0											

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

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

REACTIONS. All bearings 15-6-14.
(lb) - Max Horz A=60(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) A, E except H=-110(LC 12), F=-110(LC 13)
Max Grav All reactions 250 lb or less at joint(s) A, E except G=319(LC 19), H=543(LC 18), F=543(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-H=-459/192, D-F=-459/192

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) 0-7-7 to 3-9-7, Interior(1) 3-9-7 to 4-9-7, Exterior(2R) 4-9-7 to 10-9-7, Interior(1) 10-9-7 to 11-9-7, Exterior(2E) 11-9-7 to 14-11-8 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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, E except (jt=lb) H=110, F=110.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	V6	Valley	1	1	I42843812
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:25 2020 Page 1
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6-3-14 | 12-7-12
6-3-14 | 6-3-14

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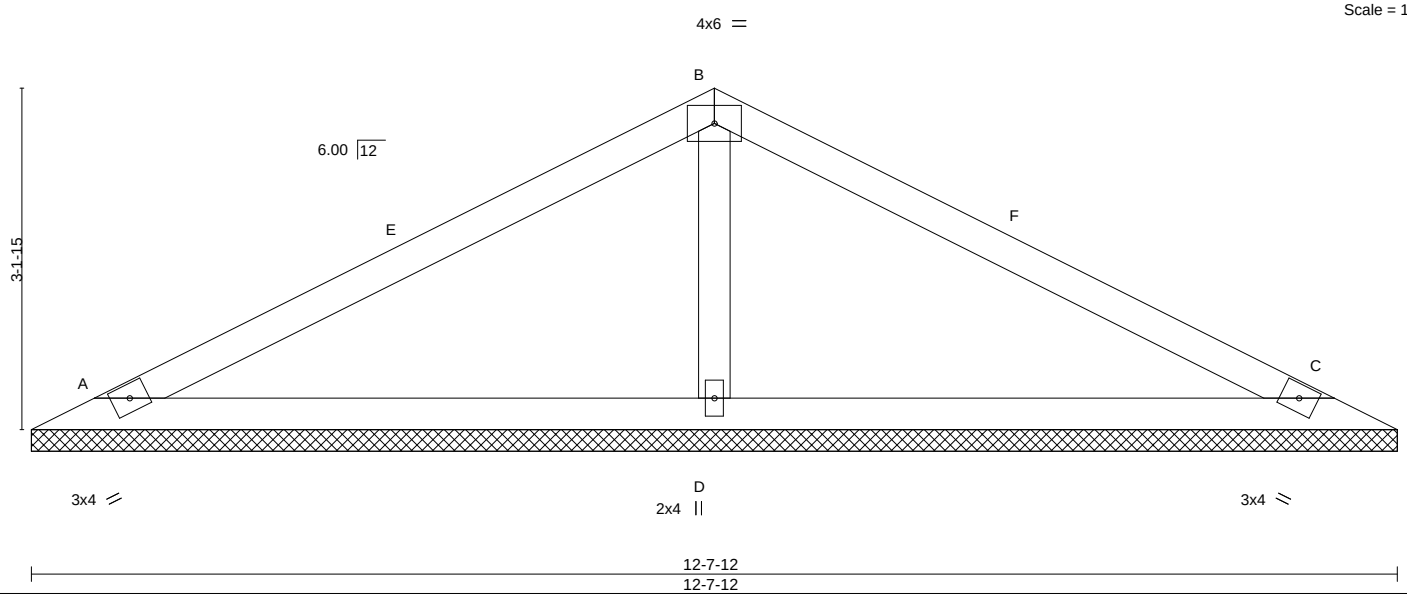

12-7-12
12-7-12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.33	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0	Code IRC2018/TPI2014		Matrix-S							Weight: 42 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) A=12-7-12, C=12-7-12, D=12-7-12
Max Horz A=48(LC 12)
Max Uplift A=-43(LC 12), C=-52(LC 13), D=-25(LC 12)
Max Grav A=351(LC 18), C=351(LC 19), D=573(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-D=-399/213

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) 0-7-7 to 3-7-7, Exterior(2R) 3-7-7 to 9-0-5, Exterior(2E) 9-0-5 to 12-0-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C, D.
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 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	V7	Valley	1	1	I42843813
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:26 2020 Page 1
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2-11-14 / 2-11-14 — 5-11-12 / 2-11-14

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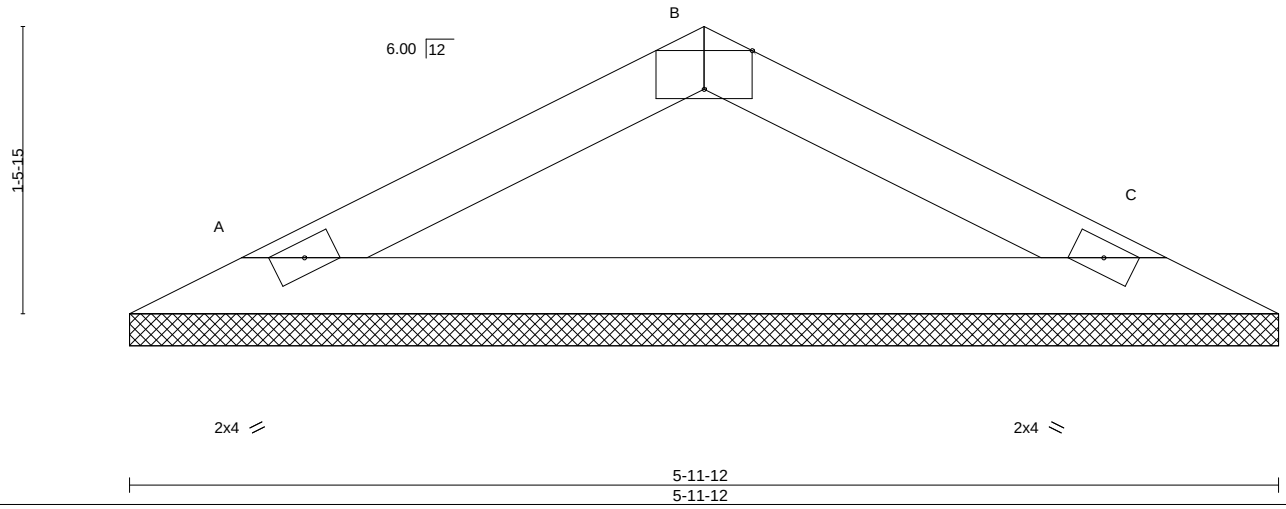

5-11-12 / 5-11-12

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.29	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) A=5-11-12, C=5-11-12
Max Horz A=-20(LC 13)
Max Uplift A=-23(LC 12), C=-23(LC 13)
Max Grav A=243(LC 18), C=243(LC 19)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	V8	Valley	1	1	I42843814
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:26 2020 Page 1
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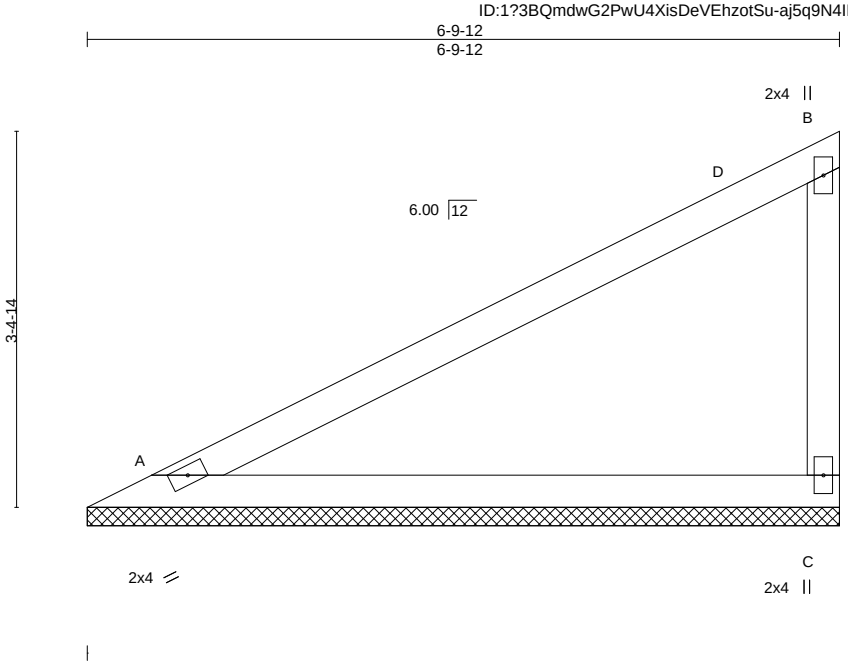

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.47	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 25 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 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) A=6-9-12, C=6-9-12
Max Horz A=120(LC 9)
Max Uplift A=-28(LC 12), C=-54(LC 12)
Max Grav A=396(LC 18), C=396(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-335/174

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) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	V9	Valley	1	1	I42843815
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:27 2020 Page 1
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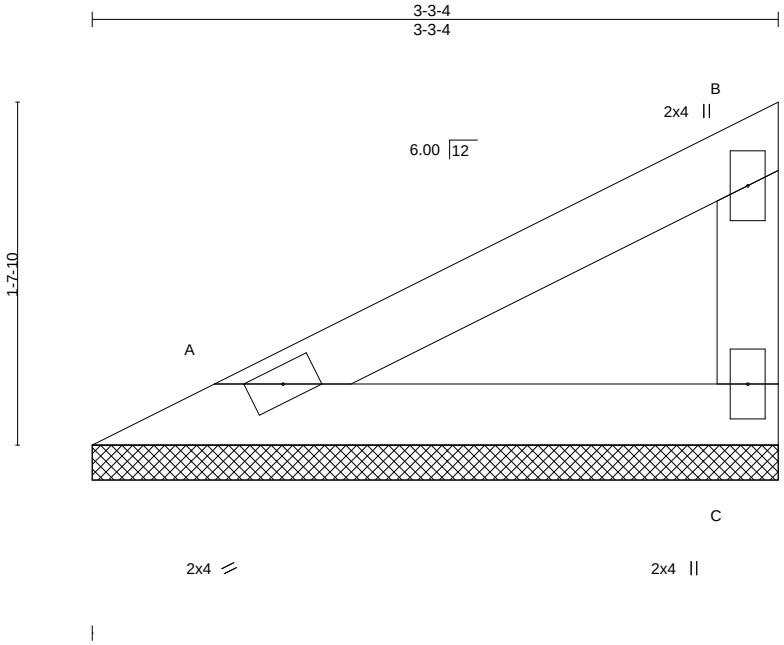

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 11 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 3-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) A=3-3-4, C=3-3-4
Max Horz A=50(LC 9)
Max Uplift A=-12(LC 12), C=-25(LC 12)
Max Grav A=149(LC 18), C=149(LC 18)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

September 17,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	Z1	Roof Special	6	1	I42843816
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:28 2020 Page 1
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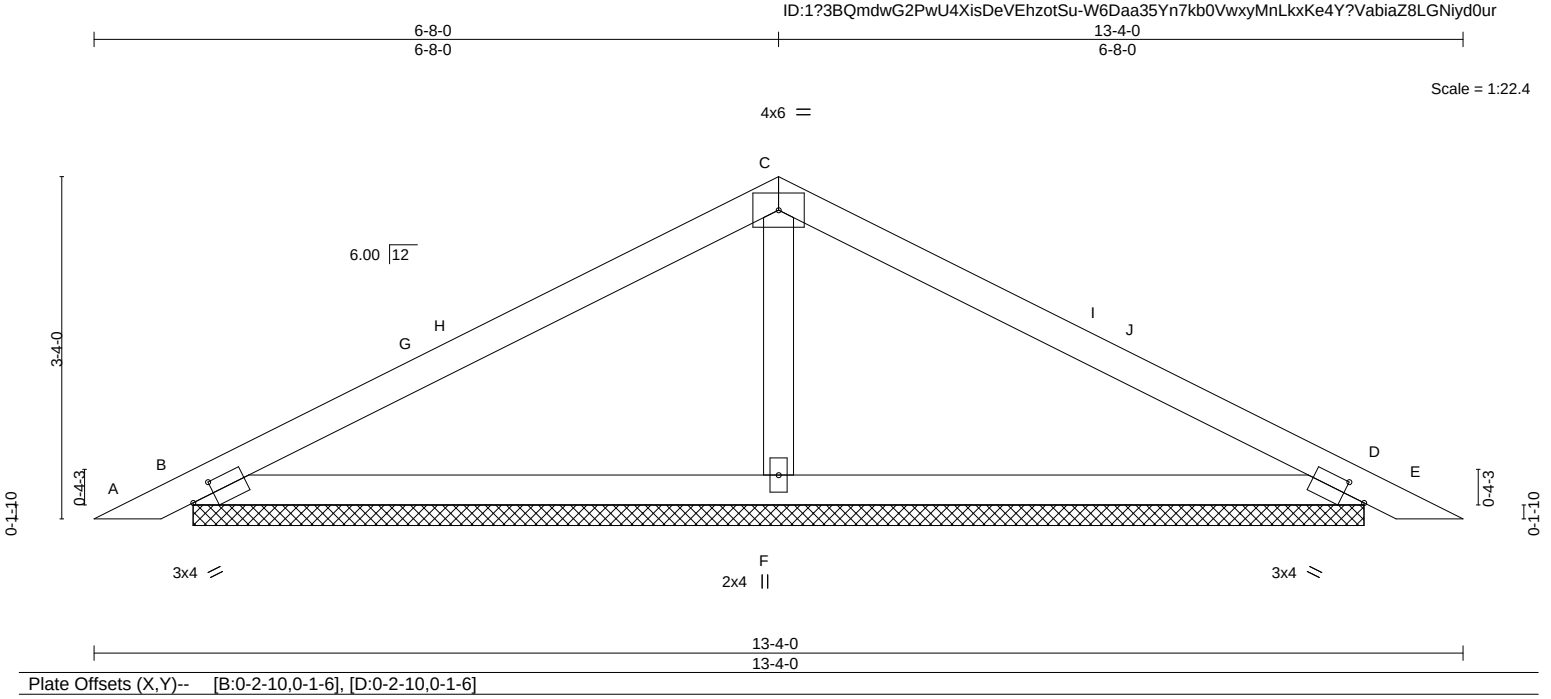


Plate Offsets (X,Y)-- [B:0-2-10,0-1-6], [D:0-2-10,0-1-6]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.02	E	n/r	120	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.00	D	n/r	90		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	D	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 43 lb	FT = 20%
BCDL	10.0											

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

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

REACTIONS. (size) B=11-4-14, D=11-4-14, F=11-4-14
Max Horz B=53(LC 12)
Max Uplift B=-58(LC 12), D=-68(LC 13), F=-23(LC 12)
Max Grav B=397(LC 19), D=397(LC 20), F=571(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-F=-388/208

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 3-8-0, Exterior(2R) 3-8-0 to 9-8-0, Interior(1) 9-8-0 to 10-0-1, Exterior(2E) 10-0-1 to 13-0-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, D, F.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

September 17,2020

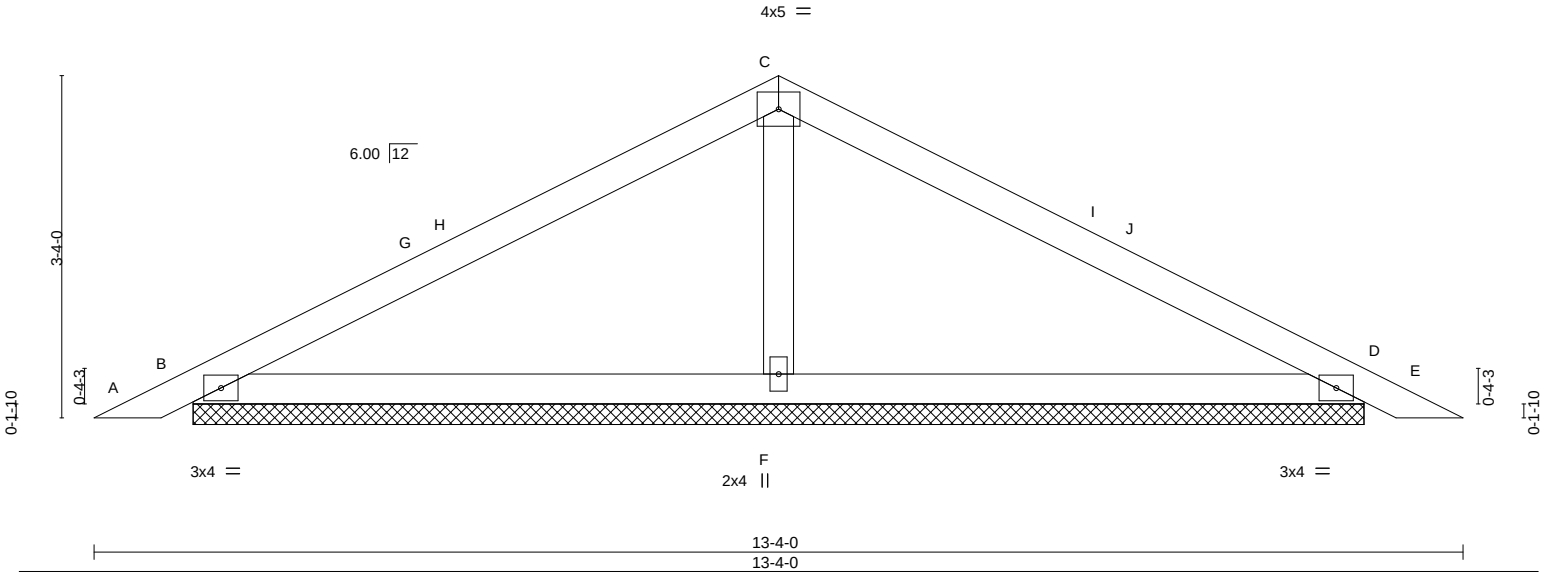
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2350 SW River Trail Rd. - LSMO
201355	Z2	Piggyback	1	2	I42843817
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 16 14:49:33 2020 Page 1
ID:1?3BQmdwG2PwU4XisDeVEhzotSu-t41Tdm9hcfMu6GpukvNWR?1bJZllFsnJiQ312vyd0um

6-8-0 13-4-0
6-8-0 6-8-0

Scale = 1:22.4



13-4-0
13-4-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.01	E	n/r	120	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.00	D	n/r	90		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	D	n/a	n/a		
BCLL	0.0	Code IRC2018/TPI2014		Matrix-S							Weight: 86 lb	FT = 20%
BCDL	10.0											

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

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

REACTIONS. (size) B=11-4-14, D=11-4-14, F=11-4-14
Max Horz B=53(LC 12)
Max Uplift B=-58(LC 12), D=-68(LC 13), F=-23(LC 12)
Max Grav B=397(LC 19), D=397(LC 20), F=571(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-F=-388/208

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: 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) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 3-8-0, Exterior(2R) 3-8-0 to 9-8-0, Interior(1) 9-8-0 to 10-0-1, Exterior(2E) 10-0-1 to 13-0-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
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 25.0 psf on overhangs non-concurrent with other live loads.
7) Gable requires continuous bottom chord bearing.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, D, F.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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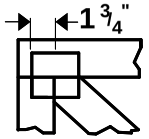
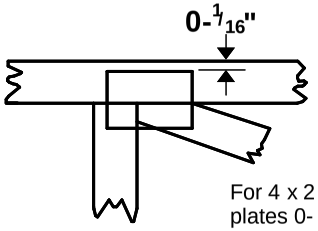
Symbols

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.

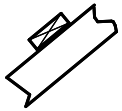
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

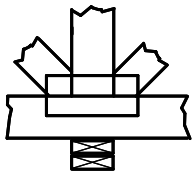
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

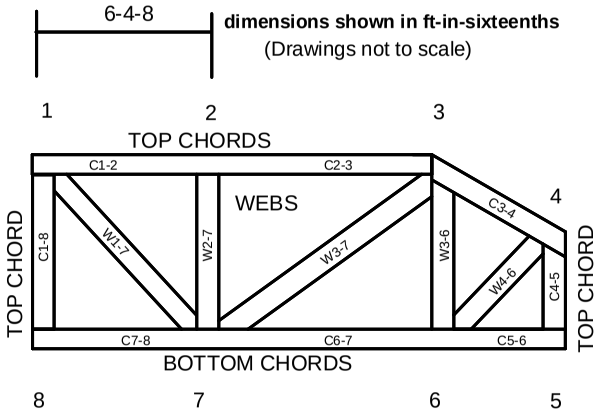


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & 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-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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 Engineering Reference Sheet: MII-7473 rev. 5/19/2020

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.