

Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	A01	Roof Special Supported Gable	1	1	Job Reference (optional)

Builders FirstSource, Jack Mathis

Run: 8.82 S Dec 4 2024 Print: 8.820 S Dec 4 2024 MiTek Industries, Inc. Wed Mar 19 10:58:02

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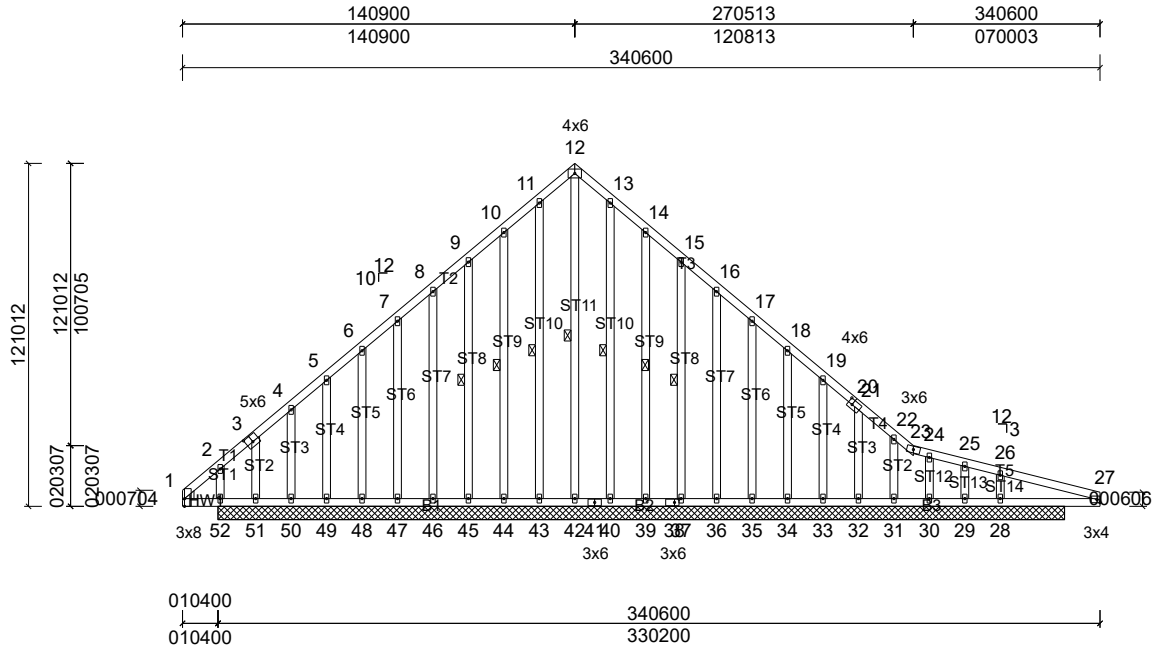


Plate Offsets (X, Y): [1:000308,Edge], [3:000300,000300], [20:000200,000204], [38:000200,000108]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.47	Horiz(TL)	0.02	28	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 324 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3 *Except* ST11:2x4 SP No.2
WEDGE Left: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 12-42, 11-43, 10-44, 9-45, 13-40, 14-39, 15-37

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 311000.
(lb) - Max Horiz 52=-557 (LC 8)
Max Uplift All uplift 100 (lb) or less at joint(s)
31, 40, 43, 50 except 28=-580 (LC 9), 29=-419 (LC 19), 30=-210 (LC 9), 32=-134 (LC 13), 33=-125 (LC 13), 34=-125 (LC 13), 35=-125 (LC 13), 36=-124 (LC 13), 37=-127 (LC 13), 39=-159 (LC 13), 44=-157 (LC 12), 45=-127 (LC 12), 46=-124 (LC 12), 47=-127 (LC 12), 48=-118 (LC 12), 49=-163 (LC 12), 51=-674 (LC 9), 52=-576 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s) 30, 31, 32, 33, 34, 35, 36, 37, 39, 40, 43, 44, 45, 46, 47, 48, 49, 50 except 28=669 (LC 24), 29=376 (LC 9), 42=609 (LC 13), 51=661 (LC 10), 52=721 (LC 9)

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

TOP CHORD 1-2=-336/356, 2-3=-557/558, 3-4=-321/382, 4-5=-320/401, 5-6=-246/360, 6-7=-217/378, 7-8=-196/428, 8-9=-274/485, 9-10=-353/543, 10-11=-449/658, 11-12=-467/668, 12-13=-467/668, 13-14=-449/658, 14-15=-353/541, 15-16=-274/453, 16-17=-196/396, 17-18=-117/354, 18-19=-108/333, 19-20=-164/312, 20-21=-165/273, 21-22=-226/318, 22-23=-238/292, 23-24=-235/267, 25-26=-268/235, 26-27=-313/222
BOT CHORD 1-52=-342/354, 51-52=-188/333, 50-51=-206/340, 49-50=-206/340, 48-49=-206/340, 47-48=-206/340, 46-47=-206/340, 45-46=-206/340, 44-45=-206/340, 43-44=-206/340, 42-43=-206/340, 41-42=-206/340, 40-41=-206/340, 39-40=-206/340, 38-39=-206/340, 37-38=-206/340, 36-37=-206/340, 35-36=-206/340, 34-35=-206/340, 33-34=-206/340, 32-33=-206/340, 31-32=-206/340, 30-31=-206/340, 29-30=-206/340, 28-29=-206/340, 27-28=-206/340, 12-42=-662/409, 3-51=-372/402, 2-52=-356/299, 26-28=-389/493
WEBS

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 3-5-6, Exterior (2) 3-5-6 to 14-9-0, Corner (3) 14-9-0 to 18-2-6, Exterior (2) 18-2-6 to 34-6-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 (||) MT20 unless otherwise indicated.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 43, 50, 40, 31 except (jt=lb) 44=157, 45=127, 46=123, 47=126, 48=118, 49=163, 51=674, 52=575, 39=158, 37=127, 36=124, 35=125, 34=125, 33=124, 32=134, 30=210, 29=419, 28=579.
9) Non Standard bearing condition. Review required.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

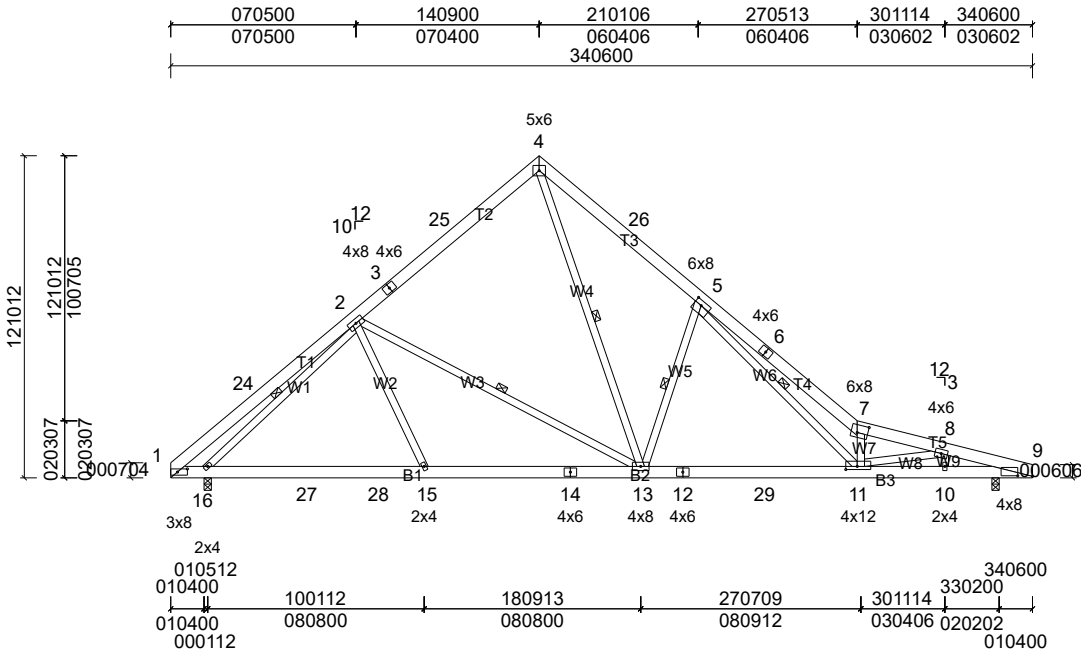
Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	A02	Roof Special	1	1	Job Reference (optional)

Builders FirstSource, Jack Mathis

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Scale = 1:81.8

Plate Offsets (X, Y): [1:000412,000108], [5:000308,000204], [7:000500,000312], [9:000701,000005], [11:000508,000108]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.20	11-13	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.42	11-13	>961	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.04	9	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.31	11-13	>999	240	Weight: 273 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* W3,W4:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-13, 4-13, 5-13, 5-11, 2-16

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 9=1389/000308, (min. 000110), 16=1371/000308, (min. 000110)
Max Horiz 16=-556 (LC 8)
Max Uplift 9=-631 (LC 13), 16=-549 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-24=-673/279, 2-24=-595/309, 2-3=-1358/660, 3-25=-1309/682, 4-25=-1307/711, 4-26=-2069/983, 5-26=-2114/938, 5-6=-4517/1887, 6-7=-4557/1860, 7-8=-3449/1280, 8-9=-2413/976
BOT CHORD 1-16=-63/358, 16-27=-586/1343, 27-28=-586/1343, 15-28=-586/1343, 14-15=-527/1431, 13-14=-527/1431, 12-13=-429/1492, 12-29=-429/1492, 11-29=-429/1492, 10-11=-869/2239, 9-10=-869/2239
WEBS 2-15=0/363, 2-13=-714/498, 4-13=-825/1763, 5-13=-1152/844, 5-11=-1259/2798, 7-11=-2311/1137, 2-16=-1082/441, 8-10=-341/157, 8-11=-309/1109

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

- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-5-6, Interior (1) 3-5-6 to 14-9-0, Exterior (2) 14-9-0 to 18-2-6, Interior (1) 18-2-6 to 34-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 631 lb uplift at joint 9 and 549 lb uplift at joint 16.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

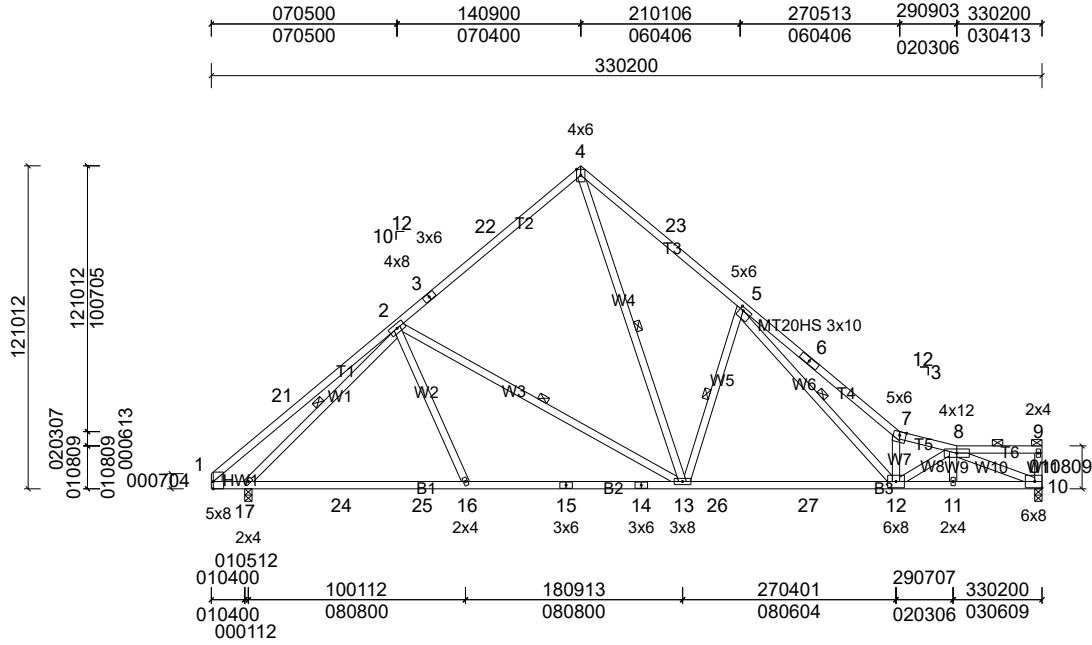
Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	A03	Roof Special	1	1	Job Reference (optional)

Builders FirstSource, Jack Mathis

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Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.31	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.59	12-13	>649	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.33	12-13	>999	240	Weight: 212 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T3,T4:2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W3,W4:2x4 SP No.2
WEDGE Left: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-9.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-13, 4-13, 5-13, 5-12, 2-17

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 10=1265/000308, (min. 000108), 17=1376/000308, (min. 000110)
Max Horiz 17=-556 (LC 8)
Max Uplift 10=-562 (LC 13), 17=-549 (LC 12)
Max Grav 10=1265 (LC 1), 17=1385 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-424/366, 2-21=-344/254, 2-3=-1345/656, 3-22=-1294/679, 4-22=-1293/707, 4-23=-2016/969, 5-23=-2061/941, 5-6=-4260/1747, 6-7=-4307/1720, 7-8=-3428/1264
BOT CHORD 17-24=-573/1314, 24-25=-573/1314, 16-25=-573/1314, 15-16=-522/1410, 14-15=-522/1410, 13-14=-522/1410, 13-26=-515/1513, 26-27=-515/1513, 12-27=-515/1513, 11-12=-1116/2787, 10-11=-1118/2788
WEBS 2-16=0/379, 2-13=-711/504, 4-13=-815/1725, 5-13=-1158/847, 5-12=-1151/2619, 7-12=-2198/1056, 8-12=-164/646, 8-10=-2907/1151, 2-17=-1323/513

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

- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-3-13, Interior (1) 3-3-13 to 14-9-0, Exterior (2) 14-9-0 to 18-0-13, Interior (1) 18-0-13 to 33-0-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 562 lb uplift at joint 10 and 549 lb uplift at joint 17.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	A04	Roof Special	1	1	Job Reference (optional)

Builders FirstSource, Jack Mathis

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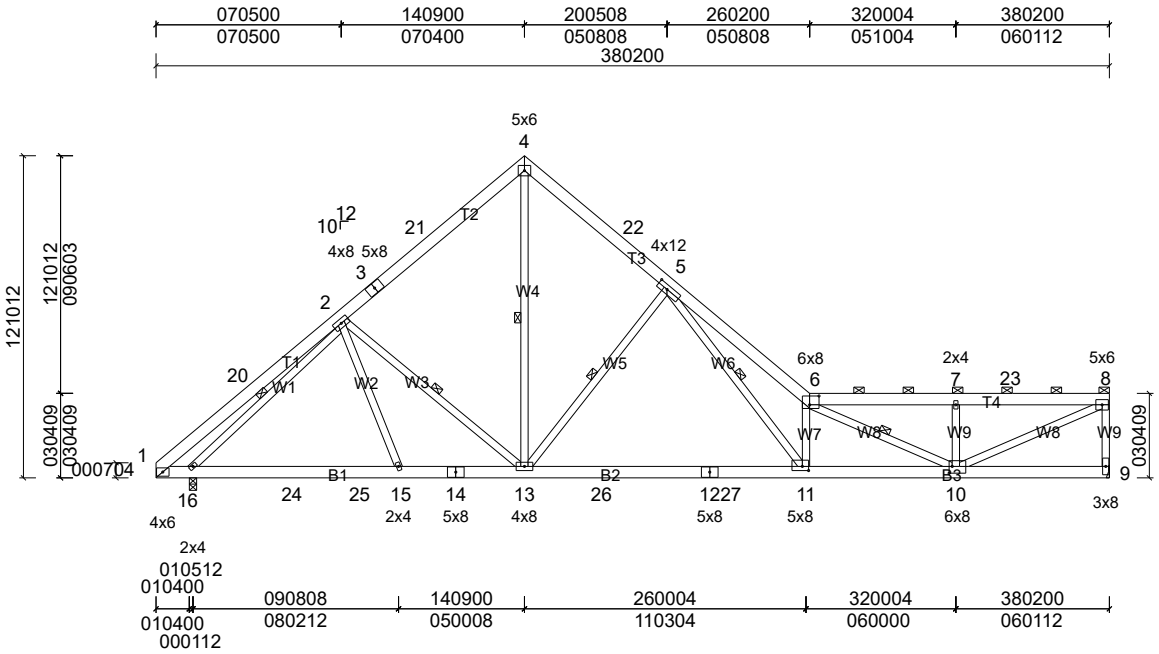


Plate Offsets (X, Y): [5:000500,000200], [6:000408,000404], [10:000108,000304], [11:000300,000200]

Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.36	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.72	11-13	>616	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.46	11-13	>959	240	Weight: 308 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* W6,W8:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-2-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-13, 4-13, 5-13, 5-11, 6-10, 2-16

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 9=1468/ Mechanical, (min. 000108), 16=1573/000308, (min. 000114)
Max Horiz 16=532 (LC 9)
Max Uplift 9=-706 (LC 13), 16=-605 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-734/294, 2-20=-656/322, 2-3=-1795/797, 3-21=-1749/819, 4-21=-1746/848, 4-22=-1765/877, 5-22=-1831/837, 5-6=-5389/2333, 6-7=-2586/1214, 7-23=-2586/1214, 8-23=-2586/1214, 8-9=-1395/729
BOT CHORD 1-16=-67/390, 16-24=-754/1493, 24-25=-754/1493, 15-25=-754/1493, 14-15=-718/1521, 13-14=-718/1521, 13-26=-734/1888, 12-26=-734/1888, 12-27=-734/1888, 11-27=-734/1888, 10-11=-1725/4198
WEBS 2-13=-550/503, 4-13=-778/1798, 5-13=-1500/950, 5-11=-1671/3676, 6-11=-2830/1489, 6-10=-1835/608, 7-10=-427/402, 8-10=-1321/2816, 2-16=-1267/540

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

- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-9-13, Interior (1) 3-9-13 to 14-9-0, Exterior (2) 14-9-0 to 18-6-13, Interior (1) 18-6-13 to 38-0-4 zone; cantilever left exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 706 lb uplift at joint 9 and 605 lb uplift at joint 16.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

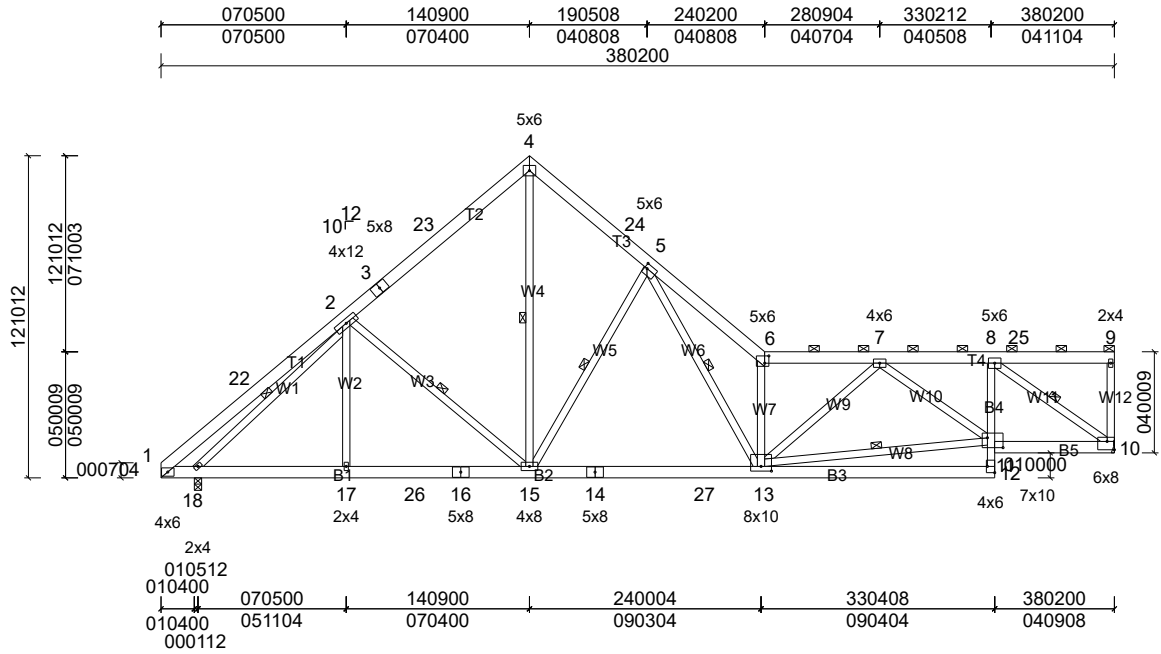
Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	A05	Roof Special	1	1	Job Reference (optional)

Builders FirstSource, Jack Mathis

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Plate Offsets (X, Y): [5:000104,000204], [6:000200,000308], [10:Edge,000400], [11:000708,000412], [12:Edge,000308], [13:000500,000204]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.22	13-15	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.42	13-15	>999	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.06	10	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.30	13-15	>999	240	Weight: 332 lb FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* B4:2x4 SP No.3
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-2-11 max.): 6-9.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 2-15, 4-15, 5-15, 5-13, 11-13, 8-10, 2-18

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 10=1468/ Mechanical, (min. 000108), 18=1573/000308, (min. 000114)
Max Horiz 18=547 (LC 12)
Max Uplift 10=-718 (LC 13), 18=-599 (LC 12)

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

TOP CHORD 1-22=-698/338, 2-22=-620/366, 2-3=-1741/782, 3-23=-1693/805, 4-23=-1691/834, 4-24=-1726/881, 5-24=-1781/849, 5-6=-3792/1689, 6-7=-2864/1213, 7-8=-1772/861
BOT CHORD 1-18=-82/327, 17-18=-797/1492, 17-26=-796/1494, 16-26=-796/1494, 15-16=-796/1494, 14-15=-698/1698, 14-27=-698/1698, 13-27=-698/1698, 12-13=-134/362, 8-11=-360/1083, 10-11=-868/1793

WEBS 2-15=-558/526, 4-15=-795/1756, 5-15=-1359/869, 5-13=-1149/2367, 6-13=-2584/1282, 7-13=-134/525, 11-13=-1080/2174, 7-11=-996/438, 8-10=-2196/1064, 2-18=-1284/449

NOTES

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

- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-8-3, Interior (1) 3-8-3 to 14-9-0, Exterior (2) 14-9-0 to 18-5-3, Interior (1) 18-5-3 to 38-0-4 zone; cantilever left exposed ; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 718 lb uplift at joint 10 and 599 lb uplift at joint 18.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

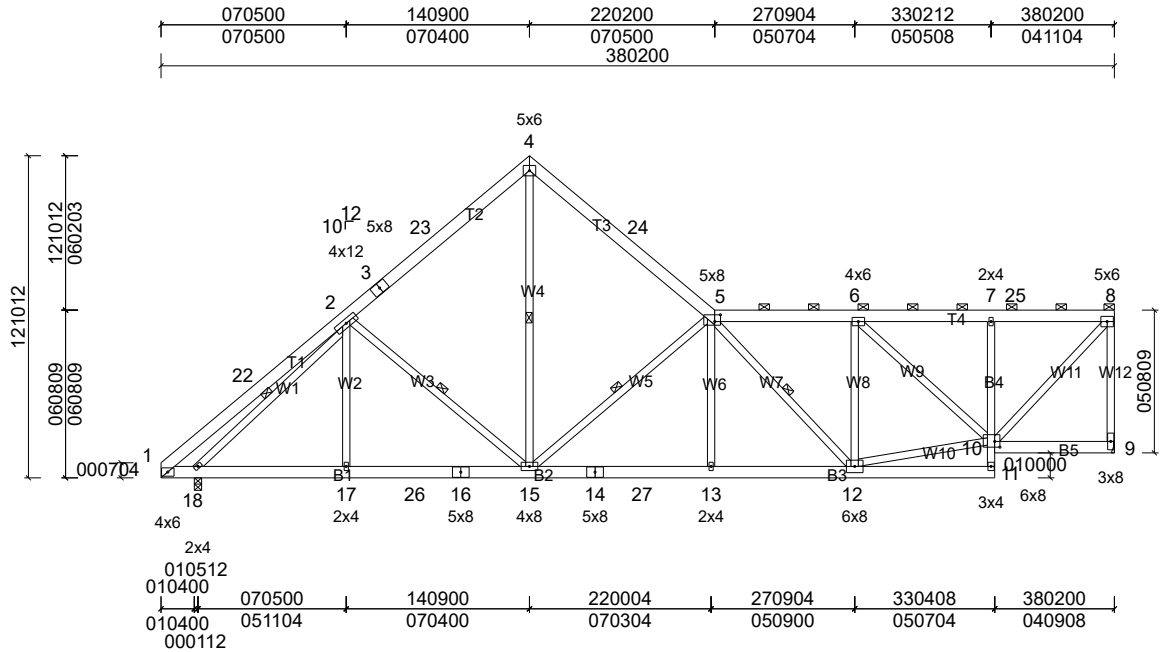
Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	A06	Roof Special	1	1	Job Reference (optional)

Builders FirstSource, Jack Mathis

Run: 8.82 S Dec 4 2024 Print: 8.820 S Dec 4 2024 MiTek Industries, Inc. Wed Mar 19 10:58:02

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ID:1LGa9TIF6Kd7Vyury?DMtzzZjWQ-naUINDGyYHLPwsSEmlcOb23nA2AMiCKUpqEGYMzZPK3



Scale = 1:81.8

Plate Offsets (X, Y): [5:000212,000304], [10:000208,000212]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.10	13	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.20	13-15	>999	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.05	9	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.16	13	>999	240	Weight: 334 lb FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* B4:2x4 SP No.3
WEBS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-5-5 max.): 5-8.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 2-15, 4-15, 5-15, 5-12, 2-18

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size)	9=1468/ Mechanical, (min. 000108), 18=1573/000308, (min. 000114)
Max Horiz	18=612 (LC 12)
Max Uplift	9=-735 (LC 13), 18=-589 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-22=-692/339, 2-22=-614/367, 2-3=-1677/766, 3-23=-1631/788, 4-23=-1630/817, 4-24=-1607/807, 5-24=-1653/777, 5-6=-1770/834, 6-7=-1164/582, 7-25=-1166/581, 8-25=-1166/581, 8-9=-1391/744
BOT CHORD	1-18=-83/326, 17-18=-852/1513, 17-26=-850/1514, 16-26=-850/1514, 15-16=-850/1514, 14-15=-1022/2227, 14-27=-1022/2227, 13-27=-1022/2227, 12-13=-1024/2224, 7-10=-320/322
WEBS	2-15=-554/520, 4-15=-628/1492, 5-15=-1489/884, 5-12=-761/326, 6-12=-75/402, 10-12=-737/1567, 6-10=-867/373, 8-10=-852/1710, 2-18=-1286/429

NOTES

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

- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-9-13, Interior (1) 3-9-13 to 14-9-0, Exterior (2) 14-9-0 to 18-6-13, Interior (1) 18-6-13 to 38-0-4 zone; cantilever left exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 735 lb uplift at joint 9 and 589 lb uplift at joint 18.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

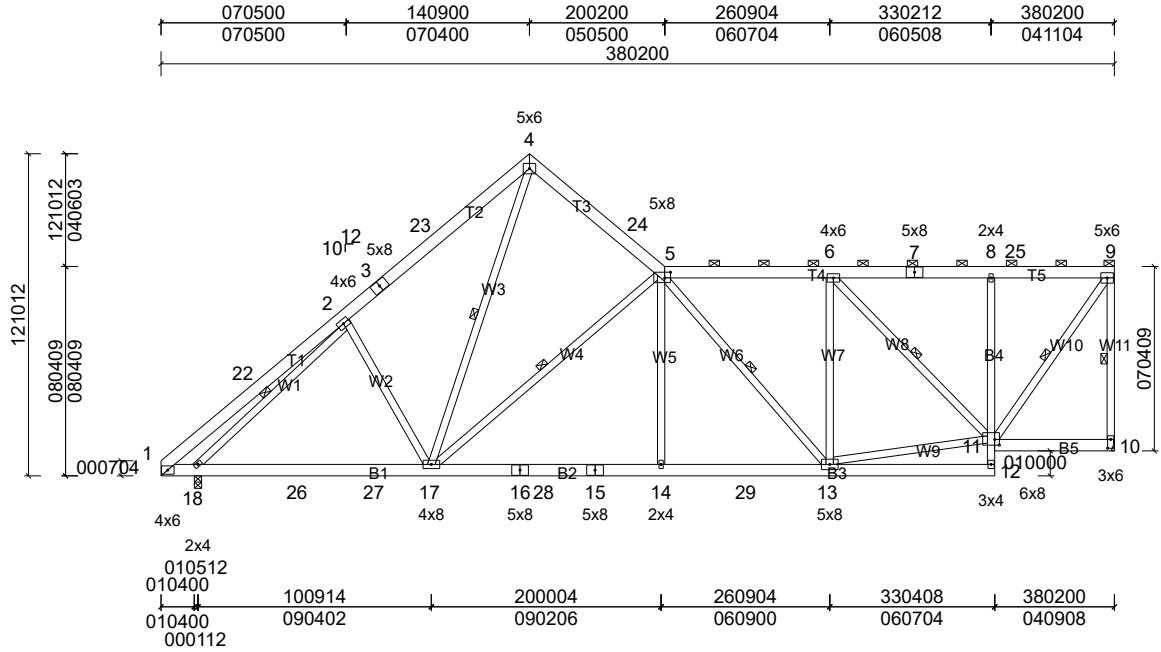
Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	A07	Roof Special	1	1	Job Reference (optional)

Builders FirstSource, Jack Mathis

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ID:VXqyMpJtteL_76T1WjkbPBzZJWP-Fm27bZHaJbTGY01QK??d7Gb2bSW9Ud0e1U_p4ozZPK2



Scale = 1:81.8

Plate Offsets (X, Y): [5:000212,000212], [10:000404,000108], [11:000204,000212]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.11	14-17	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.23	14-17	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.05	10	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.14	14-17	>999	240	Weight: 344 lb FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* B4:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* W3:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-9-6 max.): 5-9.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 9-10, 4-17, 5-17, 5-13, 6-11, 9-11, 2-18

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS

(lb/size) 10=1468/ Mechanical, (min. 000108), 18=1573/000308, (min. 000114)
Max Horiz 18=678 (LC 12)
Max Uplift 10=-757 (LC 13), 18=-576 (LC 12)
Max Grav 10=1468 (LC 1), 18=1612 (LC 19)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-22=-675/259, 2-22=-579/287, 2-3=-1843/850, 3-23=-1795/873, 4-23=-1793/902, 4-24=-1188/668, 5-24=-1249/639, 5-6=-1494/735, 6-7=-890/461, 7-8=-890/461, 8-25=-890/460, 9-25=-890/460, 9-10=-1393/767
BOT CHORD 1-18=-58/376, 18-26=-931/1559, 26-27=-931/1559, 17-27=-931/1559, 16-17=-867/1804, 16-28=-867/1804, 15-28=-867/1804, 14-15=-867/1804, 14-29=-868/1798, 13-29=-868/1798, 8-11=-349/342
WEBS 2-17=-510/594, 4-17=-669/1483, 5-17=-1353/730, 5-14=0/424, 5-13=-584/280, 6-13=-58/393, 11-13=-646/1297, 6-11=-913/424, 9-11=-800/1549, 2-18=-1289/535

NOTES

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

- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-9-13, Interior (1) 3-9-13 to 14-9-0, Exterior (2) 14-9-0 to 18-6-13, Interior (1) 18-6-13 to 38-0-4 zone; cantilever left exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 757 lb uplift at joint 10 and 576 lb uplift at joint 18.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	A08	Roof Special	1	1	Job Reference (optional)

Builders FirstSource, Jack Mathis

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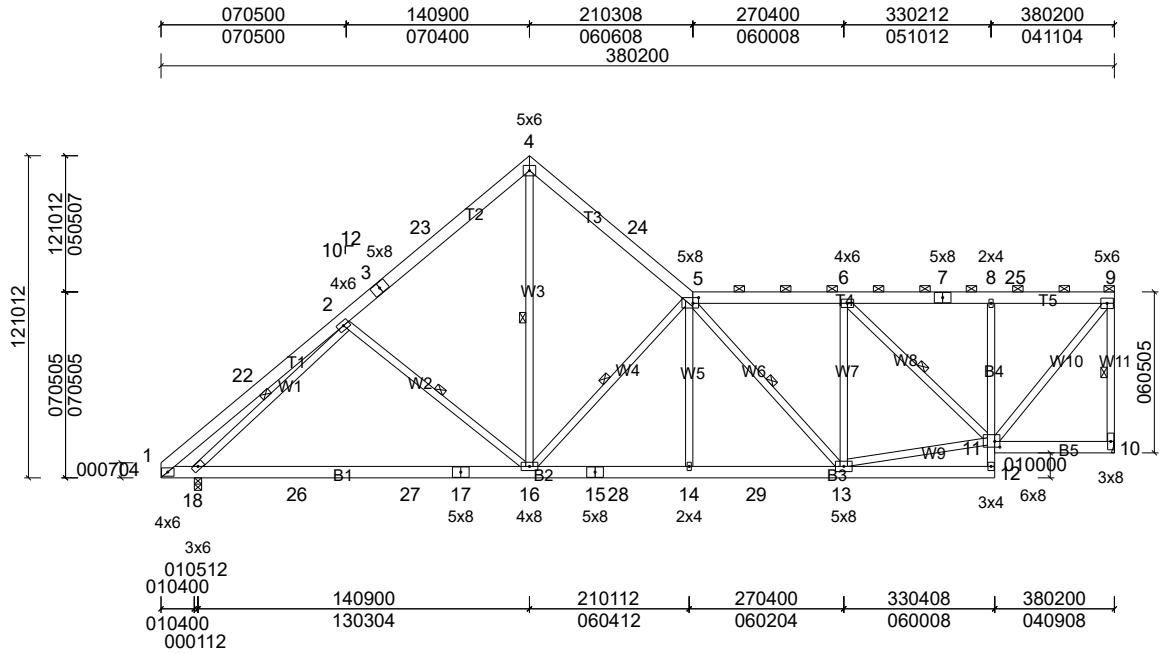


Plate Offsets (X, Y): [5:000212,000212], [11:000208,000212]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.19	16-18	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.37	16-18	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.05	10	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.14	14	>999	240	Weight: 333 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* B4:2x4 SP No.3
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-7-3 max.): 5-9.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 9-10, 2-16, 4-16, 5-16, 5-13, 6-11, 2-18

REACTIONS (lb/size) 10=1468/ Mechanical, (min. 000108), 18=1573/000308, (min. 000114)
Max Horiz 18=641 (LC 12)
Max Uplift 10=-744 (LC 13), 18=-584 (LC 12)
Max Grav 10=1468 (LC 1), 18=1597 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-22=-932/158, 2-22=-739/185, 2-3=-1656/743, 3-23=-1608/765, 4-23=-1607/795, 4-24=-1605/804, 5-24=-1642/774, 5-6=-1633/781, 6-7=-1025/520, 7-8=-1025/520, 8-25=-1027/519, 9-25=-1027/519, 9-10=-1392/754
BOT CHORD 1-18=-38/578, 18-26=-912/1517, 26-27=-912/1517, 17-27=-912/1517, 16-17=-912/1517, 15-16=-951/2003, 15-28=-951/2003, 14-28=-951/2003, 14-29=-952/2001, 13-29=-952/2001, 8-11=-333/330
WEBS 2-16=-525/577, 4-16=-628/1503, 5-16=-1307/826, 5-13=-649/314, 6-13=-65/406, 11-13=-686/1436, 6-11=-886/396, 9-11=-822/1625, 2-18=-1125/679

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

- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-9-13, Interior (1) 3-9-13 to 14-9-0, Exterior (2) 14-9-0 to 18-6-13, Interior (1) 18-6-13 to 38-0-4 zone; cantilever left exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 744 lb uplift at joint 10 and 584 lb uplift at joint 18.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	A09	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource, Jack Mathis

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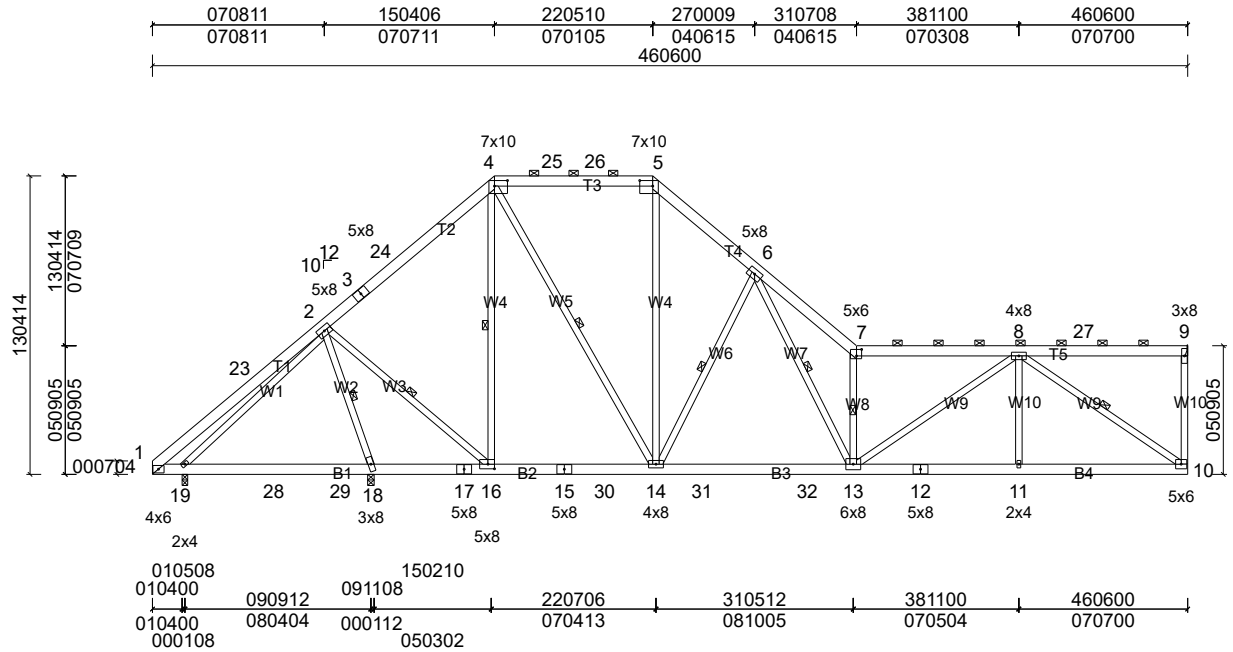


Plate Offsets (X, Y): [4:000700,000300], [5:000700,000300], [7:000212,000308], [16:000308,000208]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.18	13-14	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.34	13-14	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.85	Horz(CT)	-0.06	9	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.24	13-14	>999	240	Weight: 407 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* W4,W5:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-7-3 max.): 4-5, 7-9.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-18, 2-16, 4-16, 4-14, 6-14, 6-13, 7-13, 8-10

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 9=1384/ Mechanical, (min. 000108), 18=2184/000308, (min. 000210), 19=140/000300, (min. 000108)
Max Horiz 19=593 (LC 12)
Max Uplift 9=-674 (LC 13), 18=-877 (LC 12), 19=-120 (LC 24)
Max Grav 9=1384 (LC 1), 18=2204 (LC 2), 19=337 (LC 23)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-23=-227/417, 2-23=-65/449, 2-3=-661/411, 3-24=-621/431, 4-24=-607/465, 4-25=-1069/710, 25-26=-1069/710, 5-26=-1069/710, 5-6=-1323/789, 6-7=-2847/1396, 7-8=-2220/1007, 9-10=-500/1200
BOT CHORD 19-28=-343/283, 28-29=-343/283, 18-29=-343/283, 17-18=-868/593, 16-17=-868/593, 15-16=-240/457, 15-30=-240/457, 14-30=-240/457, 14-31=-585/1317, 31-32=-585/1317, 13-32=-585/1317, 12-13=-757/1603, 11-12=-757/1603, 10-11=-757/1603

WEBS 2-18=-2282/1151, 2-16=-561/1608, 4-16=-958/472, 4-14=-525/993, 5-14=-224/561, 6-14=-1283/865, 6-13=-987/1950, 7-13=-2052/1126, 8-13=-326/840, 8-11=0/322, 8-10=-1944/917, 2-19=-516/432

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-6-3, Interior (1) 4-6-3 to 15-4-6, Exterior (2) 15-4-6 to 19-10-9, Interior (1) 19-10-9 to 22-5-10, Exterior (2) 22-5-10 to 27-0-9, Interior (1) 27-0-9 to 46-4-4 zone; cantilever left exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 674 lb uplift at joint 9, 877 lb uplift at joint 18 and 120 lb uplift at joint 19.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

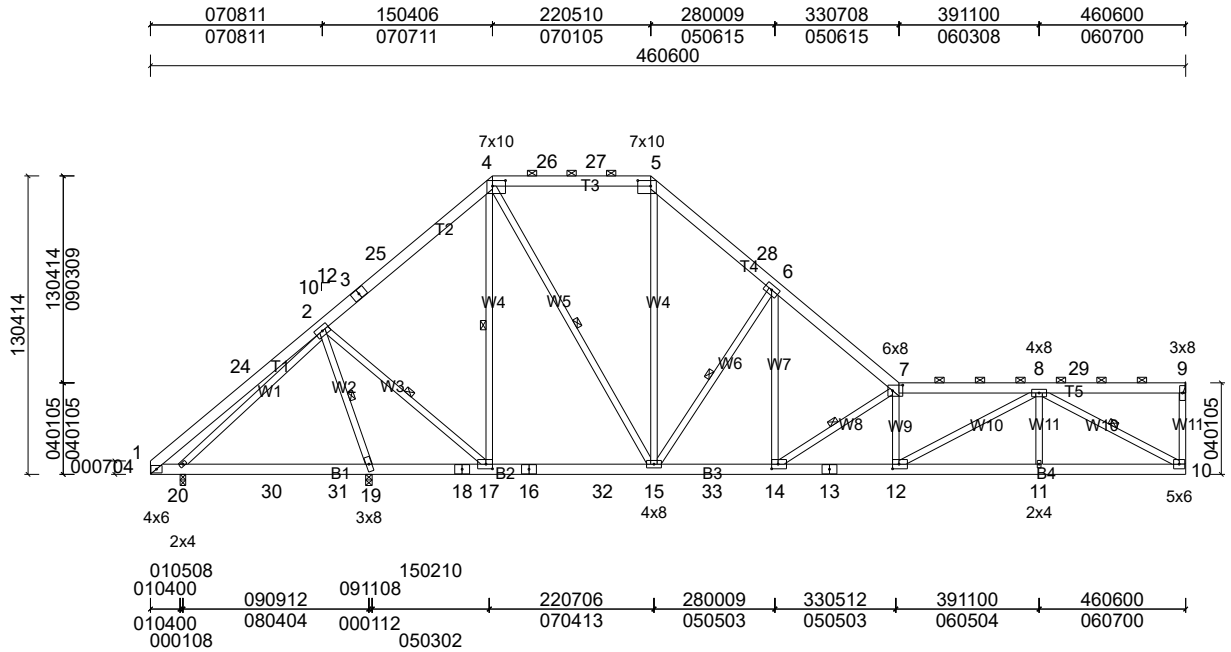
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
4492414 3-18-25	A010	Piggyback Base	1	1	

Builders FirstSource, Jack Mathis

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Scale = 1:94.7

Plate Offsets (X, Y): [4:000700,000300], [5:000700,000300], [7:000508,000300], [12:000308,000208], [14:000308,000208], [17:000308,000208]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.16	12-14	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.32	12-14	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.03	9	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.24	12-14	>999	240	Weight: 402 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* W4,W5:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-0-7 max.): 4-5, 7-9.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-19, 2-17, 4-17, 4-15, 6-15, 7-14, 8-10

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 9=1364/ Mechanical, (min. 000108), 19=2288/000308, (min. 000211), 20=56/000300, (min. 000108)
Max Horiz 20=554 (LC 9)
Max Uplift 9=-660 (LC 13), 19=-883 (LC 12), 20=-202 (LC 24)
Max Grav 9=1364 (LC 1), 19=2288 (LC 1), 20=285 (LC 23)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-24=-217/416, 2-24=-59/448, 2-3=-630/412, 3-25=-592/431, 4-25=-575/467, 4-26=-1072/720, 26-27=-1072/720, 5-27=-1072/720, 5-28=-1263/776, 6-28=-1303/737, 6-7=-1939/926, 7-8=-3008/1352, 9-10=-502/1194
BOT CHORD 20-30=-441/379, 30-31=-441/379, 19-31=-441/379, 18-19=-1055/710, 17-18=-1055/710, 16-17=-235/475, 16-32=-235/475, 15-32=-235/475, 15-33=-588/1427, 14-33=-588/1427, 13-14=-1339/2989, 12-13=-1339/2989, 11-12=-947/2024, 10-11=-947/2024

WEBS
2-19=-2412/1168, 2-17=-571/1690,
4-17=-1007/486, 4-15=-550/996,
5-15=-187/501, 6-15=-1418/891,
6-14=-475/1123, 7-14=-1868/974,
7-12=-495/321, 8-12=-497/1213, 8-11=0/283,
8-10=-2285/1067, 2-20=-520/505

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-7-13, Interior (1) 4-7-13 to 15-4-6, Exterior (2) 15-4-6 to 20-0-2, Interior (1) 20-0-2 to 22-5-10, Exterior (2) 22-5-10 to 27-1-7, Interior (1) 27-1-7 to 46-4-4 zone; cantilever left exposed ; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 5x8 (=) MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 660 lb uplift at joint 9, 883 lb uplift at joint 19 and 202 lb uplift at joint 20.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	A011	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource, Jack Mathis

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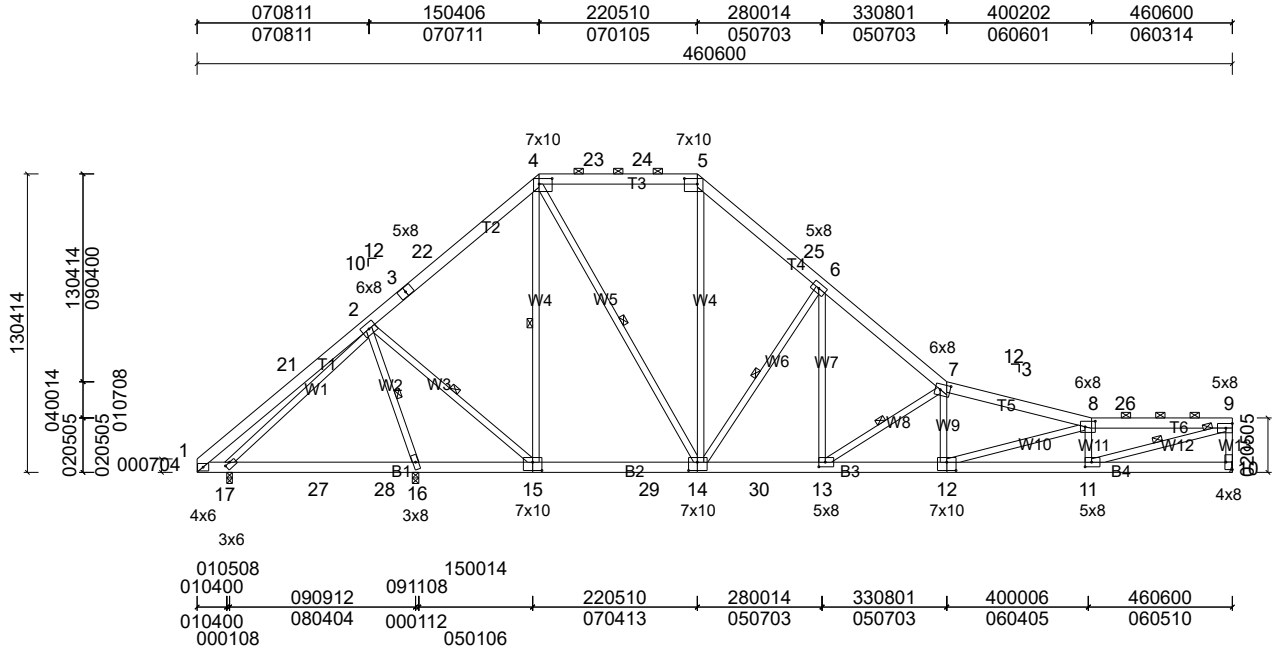


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Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	Vert(LL)	-0.20	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.40	11-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS	Wind(LL)	0.31	11-12	>999	240	Weight: 396 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* W4,W5,W12:2x4 SP No.2

WEBS
2-16=-2700/1255, 2-15=-676/1940,
4-15=-1195/542, 4-14=-582/1061,
5-14=-165/415, 6-14=-1409/891,
6-13=-487/1098, 7-13=-1866/1028,
7-12=-74/361, 8-12=-426/445,
8-11=-939/585, 9-11=-1531/3322,
2-17=-594/734

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-8-13 max.): 4-5, 8-9.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-16, 2-15, 4-15, 4-14, 6-14, 7-13, 9-11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-7-13, Interior (1) 4-7-13 to 15-4-6, Exterior (2) 15-4-6 to 20-0-2, Interior (1) 20-0-2 to 22-5-10, Exterior (2) 22-5-10 to 27-1-7, Interior (1) 27-1-7 to 46-4-4 zone; cantilever left exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 629 lb uplift at joint 10, 1003 lb uplift at joint 16 and 436 lb uplift at joint 17.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

REACTIONS (lb/size) 10=1308/ Mechanical, (min. 000108), 16=2583/000308, (min. 000301), 17=-183/000300, (min. 000108)
Max Horiz 17=-543 (LC 10)
Max Uplift 10=629 (LC 13), 16=-1003 (LC 13), 17=-436 (LC 24)
Max Grav 10=1308 (LC 1), 16=2583 (LC 1), 17=201 (LC 13)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-211/392, 2-21=-15/423, 2-3=-456/350, 3-22=-418/369, 4-22=-401/405, 4-23=-981/682, 23-24=-981/682, 5-24=-981/682, 5-25=-1135/722, 6-25=-1175/683, 6-7=-1814/871, 7-8=-2982/1314, 8-26=-3324/1540, 9-26=-3324/1540, 9-10=-1204/636
BOT CHORD 17-27=-587/585, 27-28=-587/585, 16-28=-587/585, 15-16=-1409/958, 15-29=-119/457, 14-29=-119/457, 14-30=-453/1303, 13-30=-453/1303, 12-13=-1212/2860, 11-12=-1497/3256

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	A012	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource, Jack Mathis

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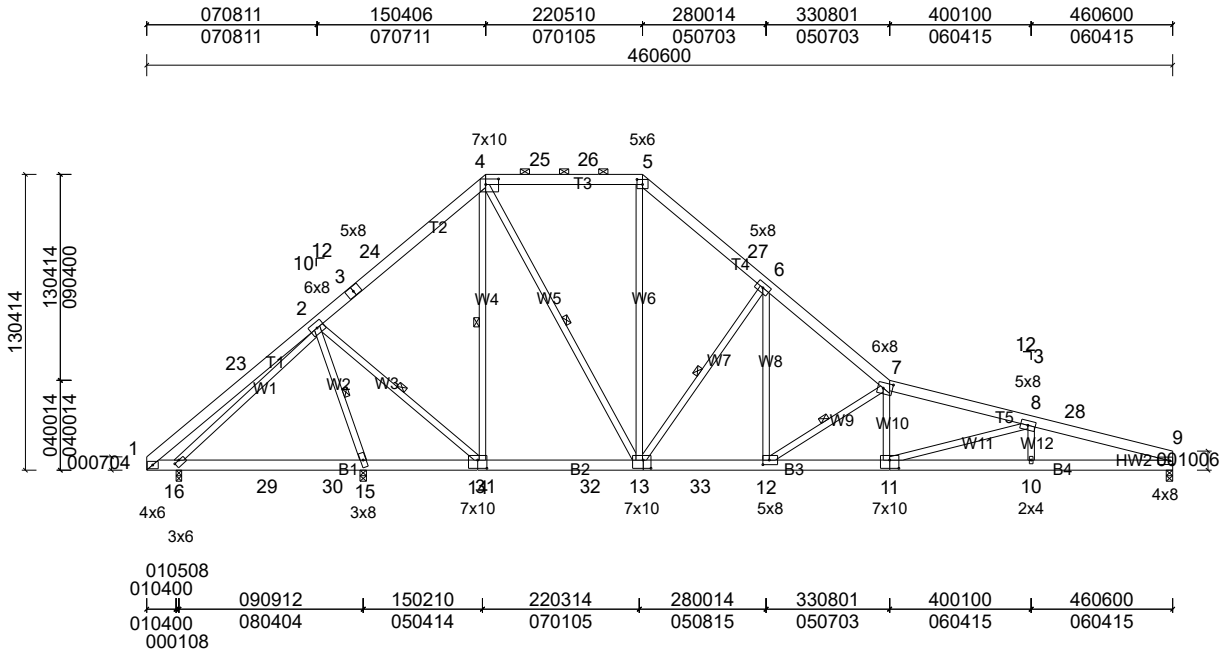


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Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.19	10-11	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.39	10-11	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.04	9	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.29	10-11	>999	240	Weight: 387 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* T5:2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except* B4:2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS 2x4 SP No.3 *Except* W4,W5,W6:2x4 SP No.2
WEDGE Right: 2x4 SP No.3

WEBS
2-15=-2636/1187, 2-14=-619/1877,
4-14=-1162/501, 4-13=-568/1047,
5-13=-176/437, 6-13=-1445/919,
6-12=-504/1130, 7-12=-1930/1064,
7-11=-99/368, 8-11=-371/508, 2-16=-557/697

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-7-13, Interior (1) 4-7-13 to 15-4-6, Exterior (2) 15-4-6 to 20-0-2, Interior (1) 20-0-2 to 22-5-10, Exterior (2) 22-5-10 to 27-1-7, Interior (1) 27-1-7 to 46-6-0 zone; cantilever left exposed ; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 643 lb uplift at joint 9, 941 lb uplift at joint 15 and 377 lb uplift at joint 16.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

REACTIONS (lb/size) 9=1328/000308, (min. 000108), 15=2515/000308, (min. 000215), 16=-123/000300, (min. 000108)
Max Horiz 16=-583 (LC 10)
Max Uplift 9=-643 (LC 13), 15=-941 (LC 13), 16=-377 (LC 24)
Max Grav 9=1328 (LC 1), 15=2515 (LC 1), 16=181 (LC 23)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-23=-215/429, 2-23=-37/460, 2-3=-495/388, 3-24=-457/406, 4-24=-440/442, 4-25=-1004/699, 25-26=-1004/699, 5-26=-1004/699, 5-27=-1163/753, 6-27=-1204/714, 6-7=-1877/924, 7-8=-3067/1394, 8-28=-3384/1631, 9-28=-3452/1615
BOT CHORD 16-29=-530/641, 29-30=-530/641, 15-30=-530/641, 14-15=-1374/992, 14-31=-77/519, 31-32=-77/519, 13-32=-77/519, 13-33=-398/1348, 12-33=-398/1348, 11-12=-1177/2943, 10-11=-1508/3283, 9-10=-1508/3283

Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	A013	Piggyback Base	2	1	Job Reference (optional)

Builders FirstSource, Jack Mathis

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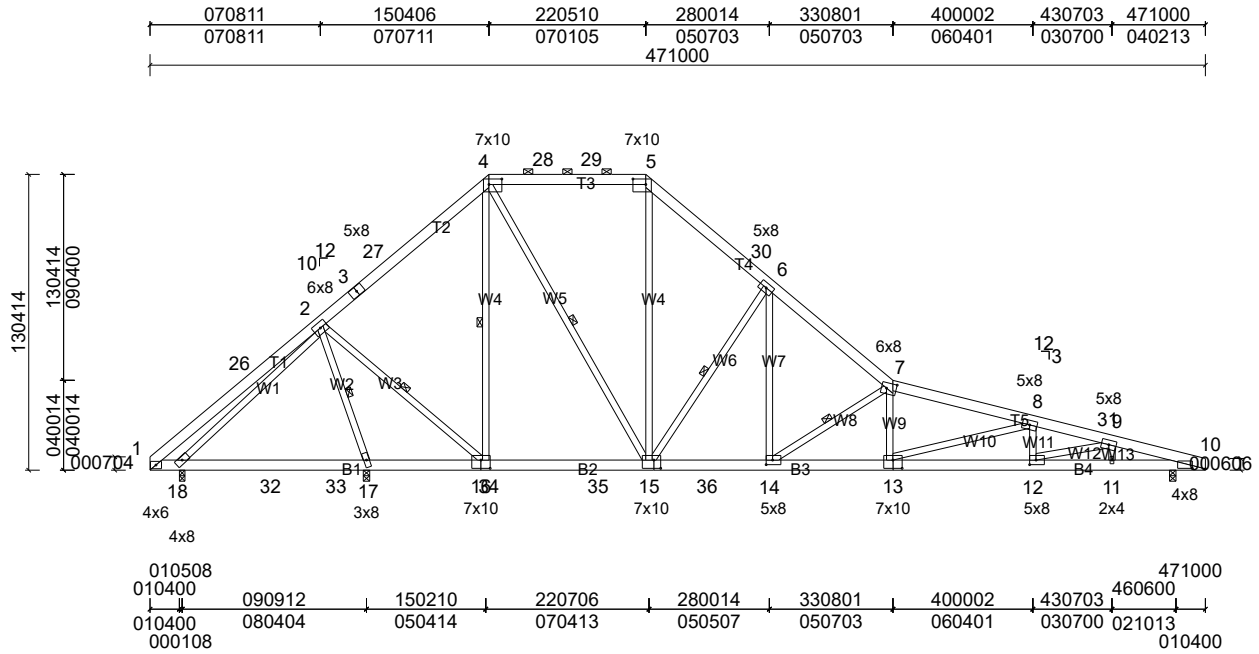


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Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.18	13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.36	12-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.28	13-14	>999	240	Weight: 397 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* W4,W5:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-17, 2-16, 4-16, 4-15, 6-15, 7-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 10=1452/000308, (min. 000111), 17=2457/000308, (min. 000214), 18=82/000300, (min. 000108)
Max Horiz 18=591 (LC 8)
Max Uplift 10=712 (LC 13), 17=913 (LC 13), 18=338 (LC 24)
Max Grav 10=1452 (LC 1), 17=2457 (LC 1), 18=209 (LC 23)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-26=-210/414, 2-26=-35/445, 2-3=-525/401, 3-27=-487/420, 4-27=-470/456, 4-28=-1036/717, 28-29=-1036/717, 5-29=-1036/717, 5-30=-1214/770, 6-30=-1254/731, 6-7=-1886/922, 7-8=-3050/1387, 8-31=-3500/1662, 9-31=-3506/1653, 9-10=-2555/1224
BOT CHORD 18-32=-491/645, 32-33=-491/645, 17-33=-491/645, 16-17=-1324/987, 16-34=-61/547, 34-35=-61/547, 15-35=-61/547, 15-36=-382/1352, 14-36=-382/1352, 13-14=-1146/2913, 12-13=-1519/3403, 11-12=-1101/2386, 10-11=-1101/2386

WEBS 2-17=-2580/1153, 2-16=-596/1831, 4-16=-1125/486, 4-15=-567/1034, 5-15=-187/467, 6-15=-1431/912, 6-14=-509/1118, 7-14=-1897/1055, 7-13=-85/366, 8-13=-523/516, 2-18=-516/630, 9-11=-350/219, 9-12=-439/1065

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-7-13, Interior (1) 4-7-13 to 15-4-6, Exterior (2) 15-4-6 to 20-0-2, Interior (1) 20-0-2 to 22-5-10, Exterior (2) 22-5-10 to 27-1-7, Interior (1) 27-1-7 to 47-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 712 lb uplift at joint 10, 913 lb uplift at joint 17 and 338 lb uplift at joint 18.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	A014	Piggyback Base	3	1	Job Reference (optional)

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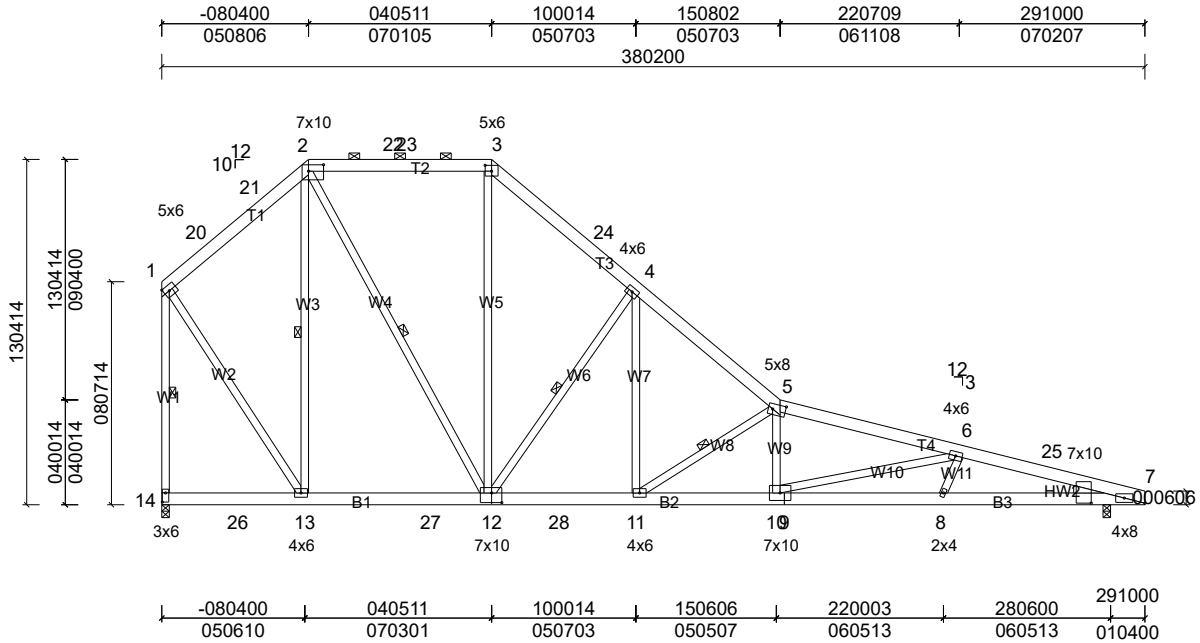


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Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.19	8-10	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.39	8-10	>999	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.07	7	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.29	8-10	>999	240	Weight: 331 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* B3:2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS 2x4 SP No.3 *Except* W3,W4,W5,W1:2x4 SP No.2
WEDGE Right: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-13, 2-12, 4-12, 5-11, 1-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 7=1576/000308, (min. 000109), 14=1466/000308, (min. 000113)
Max Horiz 14=-709 (LC 13)
Max Uplift 7=-724 (LC 13), 14=-623 (LC 13)
Max Grav 7=1576 (LC 1), 14=1527 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-851/460, 20-21=-825/465, 2-21=-809/490, 2-22=-1211/718, 22-23=-1211/718, 3-23=-1211/718, 3-24=-1433/771, 4-24=-1472/732, 4-5=-2246/940, 5-6=-3567/1468, 6-25=-3866/1729, 7-25=-3881/1717, 1-14=-1490/758
BOT CHORD 14-26=-337/705, 13-26=-337/705, 13-27=-34/784, 12-27=-34/784, 12-28=-395/1652, 11-28=-395/1652, 10-11=-1234/3437, 9-10=-1511/3679, 8-9=-1511/3679, 7-8=-1579/3708
WEBS 1-13=-394/1012, 2-13=-686/419, 2-12=-555/903, 3-12=-199/595, 4-12=-1504/922, 4-11=-534/1237, 5-11=-2123/1114, 5-10=-65/341, 6-10=-272/465

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 8-5-12 to 12-3-9, Interior (1) 12-3-9 to 14-0-6, Exterior (2) 14-0-6 to 17-10-2, Interior (1) 17-10-2 to 21-1-10, Exterior (2) 21-1-10 to 24-11-7, Interior (1) 24-11-7 to 46-6-0 zone; cantilever right exposed ; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 623 lb uplift at joint 14 and 724 lb uplift at joint 7.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

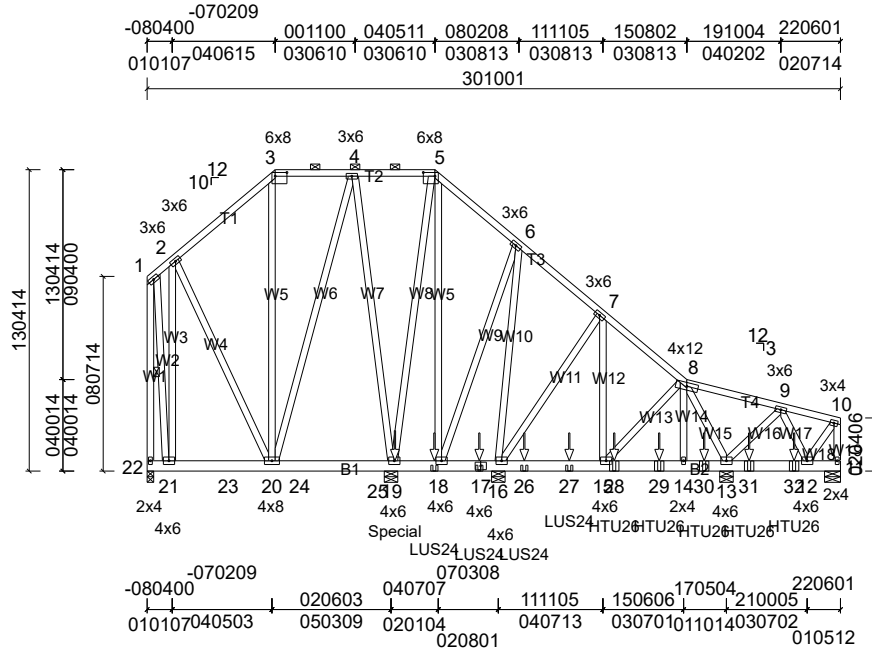
Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	A015	Piggyback Base Girder	1	3	Job Reference (optional)

Builders FirstSource, Jack Mathis

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Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.01	15-16	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.02	15-16	>999	240	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	11	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.02	15-16	>999	240	Weight: 1069 lb FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 1-22

REACTIONS

All bearings 000703. except 22=000308, 11=000808	
(lb) - Max Horiz 22=-580 (LC 9)	
Max Uplift All uplift 100 (lb) or less at joint(s) except 11=-159 (LC 5), 13=-1646 (LC 9), 16=-2122 (LC 9), 19=-3371 (LC 5), 22=-183 (LC 26)	
Max Grav All reactions 250 (lb) or less at joint (s) except 11=300 (LC 20), 13=4066 (LC 20), 16=3531 (LC 1), 19=4265 (LC 1), 22=352 (LC 21)	

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 3-4=-77/294, 5-6=-59/272, 6-7=-133/260, 7-8=-932/417, 8-9=-361/675, 9-10=-260/127, 1-22=-304/128, 10-11=-475/228	
BOT CHORD 21-22=-241/580, 21-23=-237/563, 20-23=-237/563, 20-24=-236/579, 24-25=-236/579, 19-25=-236/579, 18-19=-218/548, 17-18=-216/561, 16-17=-216/561, 16-26=-197/669, 26-27=-197/669, 15-27=-197/669, 15-28=-76/380, 28-29=-76/380, 14-29=-76/380, 14-30=-67/351, 13-30=-67/351	
WEBS 1-21=-235/327, 2-21=-305/340, 4-20=-166/431, 4-19=-501/328, 5-19=-392/268, 6-18=-226/348, 6-16=-603/447, 7-16=-1310/840, 7-15=-678/1473, 8-15=-169/456, 8-14=-256/746, 8-13=-2186/827, 9-13=-888/534, 9-12=-293/741, 10-12=-196/451	

NOTES

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 000900 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 000900 oc.
Web connected as follows: 2x4 - 1 row at 000900 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 183 lb uplift at joint 22, 3370 lb uplift at joint 19, 2122 lb uplift at joint 16, 1645 lb uplift at joint 13 and 158 lb uplift at joint 11.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie LUS24 (4-SD9112 Girder, 2-SD9212 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 21-1-5 from the left end to 25-1-5 to connect truss(es) C011 (1 ply 2x4 SP), C010 (1 ply 2x6 SP), C09 (1 ply 2x6 SP) to front face of bottom chord.
- Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent at 27-1-5 from the left end to connect truss(es) C08 (1 ply 2x4 SP) to front face of bottom chord.

- Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 29-1-5 from the left end to 37-1-5 to connect truss(es) C07 (1 ply 2x4 SP), C06 (1 ply 2x4 SP) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3106 lb down and 2937 lb up at 19-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-5=-60, 5-8=-60, 8-10=-60, 11-22=-20
Concentrated Loads (lb)
Vert: 17=-761 (F), 19=-3106 (F), 18=-768 (F), 26=-761 (F), 27=-768 (F), 28=-768 (F), 29=-768 (F), 30=-768 (F), 31=-768 (F), 32=-768 (F)

Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	A016	Piggyback Base	1	1	Job Reference (optional)

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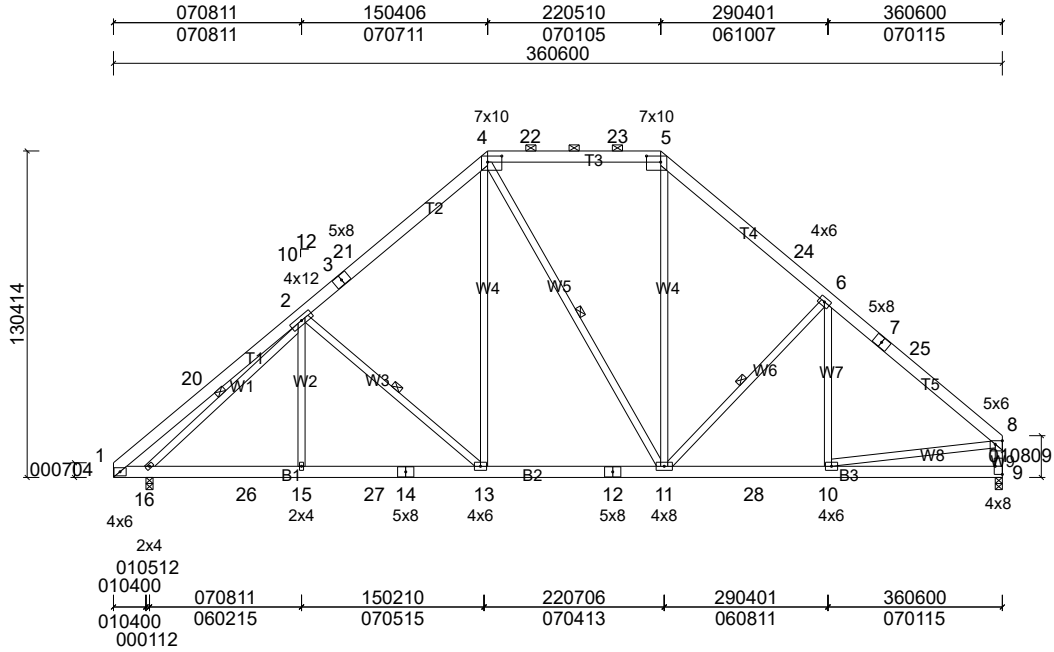


Plate Offsets (X, Y): [4:000700,000300], [5:000700,000300], [8:Edge,000112], [9:Edge,000308]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.06	11-13	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.11	11-13	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.04	9	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.07	13-15	>999	240	Weight: 322 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* W4,W5,W9:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-13, 4-11, 6-11, 2-16

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 9=1402/000308, (min. 000110), 16=1507/000308, (min. 000113)
Max Horiz 16=604 (LC 11)
Max Uplift 9=-535 (LC 13), 16=-595 (LC 12)
Max Grav 9=1402 (LC 1), 16=1551 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-677/348, 2-20=-596/378, 2-3=-1586/817, 3-21=-1557/831, 4-21=-1534/872, 4-22=-1317/821, 22-23=-1317/821, 5-23=-1317/821, 5-24=-1552/897, 6-24=-1602/849, 6-7=-1623/767, 7-25=-1655/742, 8-25=-1704/736, 8-9=-1458/685
BOT CHORD 1-16=-79/341, 16-26=-634/1547, 15-26=-634/1547, 15-27=-632/1550, 14-27=-632/1550, 13-14=-632/1550, 12-13=-405/1109, 11-12=-405/1109, 11-28=-440/1175, 10-28=-440/1175, 9-10=-157/268
WEBS 2-15=0/276, 2-13=-658/570, 4-13=-279/656, 4-11=-293/285, 5-11=-266/641, 6-11=-652/554, 2-16=-1285/483, 8-10=-288/1024

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

- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-9-6, Interior (1) 3-9-6 to 15-4-6, Exterior (2) 15-4-6 to 20-8-9, Interior (1) 20-8-9 to 22-5-10, Exterior (2) 22-5-10 to 27-9-14, Interior (1) 27-9-14 to 36-4-4 zone; cantilever left exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 535 lb uplift at joint 9 and 595 lb uplift at joint 16.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

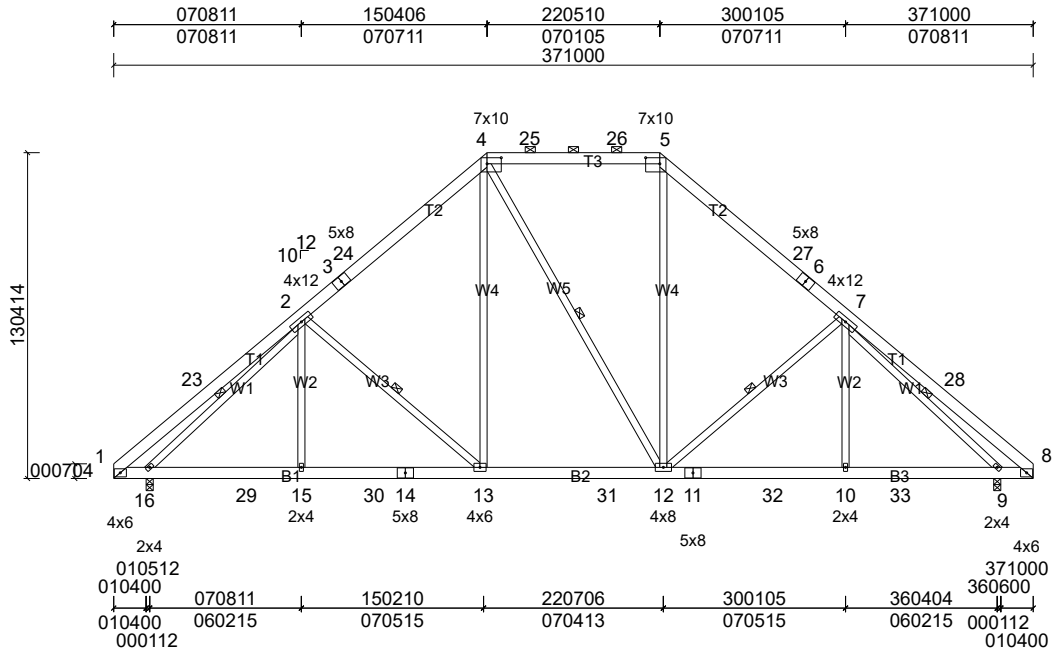
Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	A017	Piggyback Base	3	1	Job Reference (optional)

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Scale = 1:85.5

Plate Offsets (X, Y): [4:000700,000300], [5:000700,000300]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.06	12-13	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.11	12-13	>999	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.04	9	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.07	13-15	>999	240	Weight: 330 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* W4,W5:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-13, 4-12, 7-12, 2-16, 7-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 9=1513/000308, (min. 000113), 16=1513/000308, (min. 000114)
Max Horiz 16=572 (LC 9)
Max Uplift 9=-598 (LC 13), 16=-598 (LC 12)
Max Grav 9=1553 (LC 2), 16=1563 (LC 2)

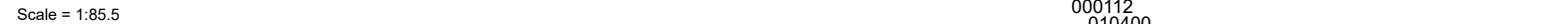
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-23=-678/349, 2-23=-597/379, 2-3=-1597/820, 3-24=-1568/833, 4-24=-1544/875, 4-25=-1337/828, 25-26=-1337/828, 5-26=-1337/828, 5-27=-1546/875, 6-27=-1569/833, 6-7=-1598/820, 7-28=-599/376, 8-28=-680/347
BOT CHORD 1-16=-79/343, 16-29=-632/1560, 15-29=-632/1560, 15-30=-631/1563, 14-30=-631/1563, 13-14=-631/1563, 13-31=-375/1123, 12-31=-375/1123, 11-12=-385/1249, 11-32=-385/1249, 10-32=-385/1249, 10-33=-387/1246, 9-33=-387/1246, 8-9=-54/341
WEBS 2-15=0/277, 2-13=-660/570, 4-13=-281/650, 4-12=-288/291, 5-12=-237/586, 7-12=-656/571, 7-10=0/279, 2-16=-1299/485, 7-9=-1288/484

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

- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-9-6, Interior (1) 3-9-6 to 15-4-6, Exterior (2) 15-4-6 to 20-8-9, Interior (1) 20-8-9 to 22-5-10, Exterior (2) 22-5-10 to 27-9-14, Interior (1) 27-9-14 to 37-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 598 lb uplift at joint 16 and 598 lb uplift at joint 9.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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[illegible]

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 7-4-12 to 10-5-10, Interior (1) 10-5-10 to 14-0-6, Exterior (2) 14-0-6 to 17-1-10, Interior (1) 17-1-10 to 21-1-10, Exterior (2) 21-1-10 to 24-1-10, Interior (1) 24-1-10 to 36-6-0 zone; cantilever right exposed ; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 (||) MT20 unless otherwise indicated.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 445 lb uplift at joint 38 and 465 lb uplift at joint 25.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

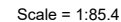
LOAD CASE(S) Standard

REACTIONS (lb/size) 25=1226/000308, (min. 000108),
38=1102/000308, (min. 000108)
Max Horiz 38=676 (LC 13)
Max Uplift 25=465 (LC 13), 38=445 (LC 13)

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

TOP CHORD
1-2=-834/442, 2-3=-804/453, 3-50=-808/472,
4-50=-792/481, 4-5=-799/495, 5-6=-613/418,
6-7=-836/555, 7-8=-838/557, 8-9=-838/557,
9-51=-838/557, 10-51=-838/557,
10-11=-838/557, 11-12=-838/556,
12-13=-944/561, 13-14=-911/534,
14-52=-887/506, 15-52=-898/500,
15-16=-901/486, 16-17=-869/451,
17-18=-883/446, 18-19=-976/491,
19-20=-1213/490, 20-21=-1343/569,
21-22=-1299/512, 22-53=-1059/383,
23-53=-1079/380, 1-38=-1254/654

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Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.09	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.15	9-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.07	9-11	>999	240	Weight: 220 lb	FT = 20%

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-17=-1154/1025, 2-17=-407/256, 2-3=-1581/728, 3-18=-1529/754, 4-18=-1521/782, 4-19=-1521/782, 5-19=-1529/754, 5-6=-1581/728, 6-20=-407/256, 7-20=-491/222
BOT CHORD	12-21=-548/1329, 21-22=-548/1329, 11-22=-548/1329, 11-23=-132/885, 10-23=-132/885, 10-24=-132/885, 9-24=-132/885, 9-25=-270/1020, 25-26=-270/1020, 8-26=-270/1020
WEBS	4-9=-494/770, 6-9=-593/654, 4-11=-494/769, 2-11=-593/654, 2-12=-1114/419, 6-8=-1114/419

NOTES

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

- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone
and C-C Exterior (2) 0-0-0 to 3-0-13, Interior (1) 3-0-13
to 15-4-0, Exterior (2) 15-4-0 to 18-4-13, Interior (1)
18-4-13 to 30-8-0 zone; end vertical left and right
exposed; C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
030600 tall by 020000 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 502 lb uplift at joint
12 and 502 lb uplift at joint 8.
- 6) This truss is designed in accordance with the 2015
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1
- 7) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard

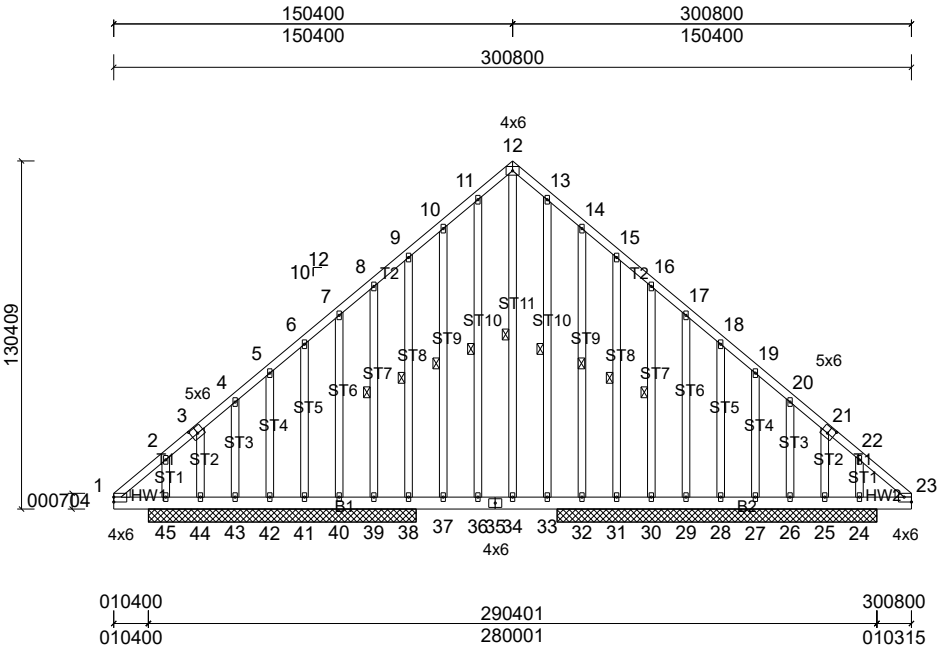
Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	A020	Common Supported Gable	1	1	Job Reference (optional)

Builders FirstSource, Jack Mathis

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Scale = 1:82.3

Plate Offsets (X, Y): [1:Edge,000204], [3:000300,000300], [21:000300,000300], [23:Edge,000204]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.04	34-36	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.04	34-36	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	24	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							
Weight: 346 lb FT = 20%											

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
OTHERS 2x4 SP No.3 *Except* ST11:2x4 SP No.2
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 12-34, 11-36, 10-37, 9-38,
8-39, 13-33, 14-32,
15-31, 16-30

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 120308. except 38=100308,
39=100308, 40=100308, 41=100308,
42=100308, 43=100308, 44=100308,
45=100308

(lb) - Max Horiz 45=-576 (LC 8)
Max Uplift All uplift 100 (lb) or less at joint(s)
26, 30, 38, 40, 43 except 24=-473
(LC 11), 25=-954 (LC 13), 27=-191
(LC 13), 28=-104 (LC 13), 29=-155
(LC 13), 31=-555 (LC 13), 39=-341
(LC 13), 41=-122 (LC 12), 42=-186
(LC 12), 44=-961 (LC 12), 45=-486
(LC 10)
Max Grav All reactions 250 (lb) or less at joint
(s) 26, 27, 28, 29, 30, 31, 39, 40,
41, 42, 43 except 24=800 (LC 22),
25=612 (LC 11), 32=630 (LC 21),
38=584 (LC 19), 44=623 (LC 10),
45=811 (LC 9)

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

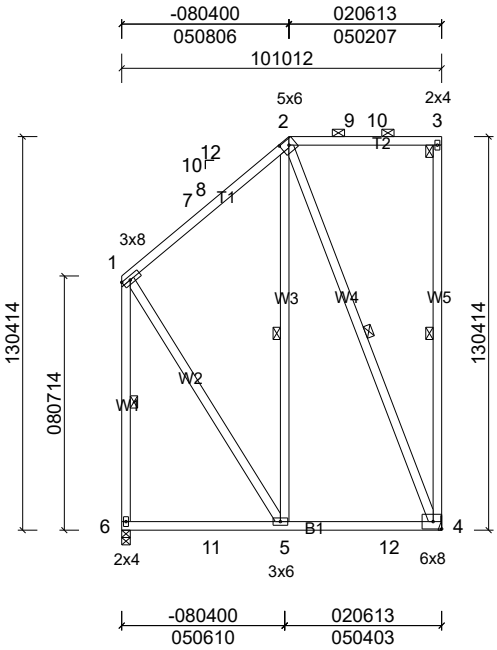
TOP CHORD 1-2=-630/375, 2-3=-500/346, 3-4=-316/249,
4-5=-290/235, 7-8=-226/288, 8-9=-308/364,
9-10=-392/393, 10-11=-466/480,
11-12=-483/518, 12-13=-480/505,
13-14=-466/477, 14-15=-399/424,
15-16=-304/340, 16-17=-227/284,
19-20=-283/228, 20-21=-309/242,
21-22=-495/339, 22-23=-468/297
BOT CHORD 1-45=-271/464, 44-45=-292/478,
43-44=-280/484, 42-43=-280/484,
41-42=-280/484, 40-41=-280/484,
39-40=-280/484, 38-39=-280/484,
37-38=-280/484, 36-37=-280/484,
35-36=-280/484, 34-35=-280/484,
33-34=-280/484, 32-33=-280/484,
31-32=-280/484, 30-31=-280/484,
29-30=-280/484, 28-29=-280/484,
27-28=-280/484, 26-27=-280/484,
25-26=-280/484, 24-25=-266/461,
23-24=-266/461
WEBS 12-34=-451/396, 3-44=-209/328,
21-25=-209/327

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 3-1-10, Exterior (2) 3-1-10 to 15-4-0, Corner (3) 15-4-0 to 18-4-13, Exterior (2) 18-4-13 to 30-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 (||) MT20 unless otherwise indicated.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 38, 40, 43, 30, 26 except (jt=lb) 39=341, 41=121, 42=186, 44=960, 45=486, 31=554, 29=154, 28=103, 27=190, 25=953, 24=473.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	B01	Piggyback Base	1	1	Job Reference (optional)



Scale = 1:71

Plate Offsets (X, Y): [2:000304,000204]

Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.03	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.01	4-5	>999	240	Weight: 120 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W2:2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-4, 2-5, 2-4, 1-6

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 455 lb uplift at joint 4.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

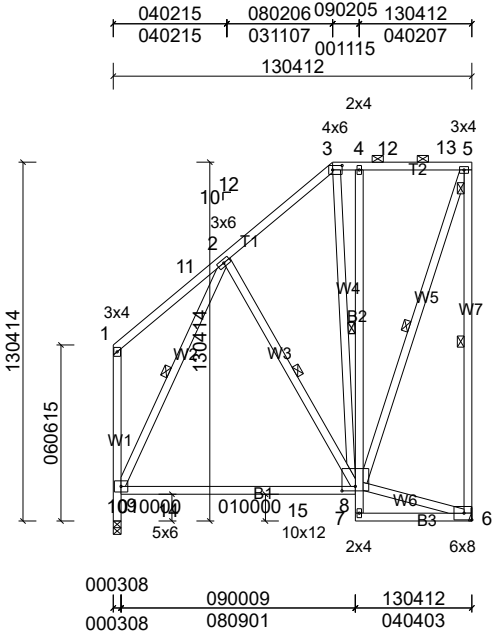
REACTIONS (lb/size) 4=424/ Mechanical, (min. 000108), 6=424/000308, (min. 000108)
Max Horiz 6=324 (LC 12)
Max Uplift 4=-455 (LC 12)
Max Grav 4=456 (LC 2), 6=488 (LC 21)

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

TOP CHORD 1-6=-389/0
BOT CHORD 6-11=-337/282, 5-11=-337/282
WEBS 1-5=-133/331, 2-4=-573/496

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 8-5-12 to 11-5-12, Interior (1) 11-5-12 to 14-0-6, Exterior (2) 14-0-6 to 17-0-6, Interior (1) 17-0-6 to 19-1-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.

Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	B02	Piggyback Base	6	1	Job Reference (optional)



Scale = 1:73.8

Plate Offsets (X, Y): [3:000404,000200], [8:000600,000200]

Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.27	8-9	>576	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.45	8-9	>348	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	Horz(CT)	-0.22	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.15	8-9	>999	240	Weight: 161 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* W7,W5,W1:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.

BOT CHORD Rigid ceiling directly applied. Except:

1 Row at midpt 4-8

WEBS 1 Row at midpt 5-6, 2-8, 3-8, 5-8, 2-9

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 6=524/ Mechanical, (min. 000108), 10=524/000308, (min. 000108)
Max Horiz 10=469 (LC 12)
Max Uplift 6=-529 (LC 12)
Max Grav 6=524 (LC 1), 10=556 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-262/245, 2-11=-215/262, 2-3=-263/132, 5-6=-762/644, 9-10=-556/0, 1-9=-296/264
BOT CHORD 9-14=-423/446, 14-15=-423/446, 8-15=-423/446
WEBS 2-8=-413/493, 5-8=-552/720, 2-9=-415/58

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 8-2-6, Exterior (2) 8-2-6 to 12-5-4, Interior (1) 12-5-4 to 13-3-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 529 lb uplift at joint 6.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

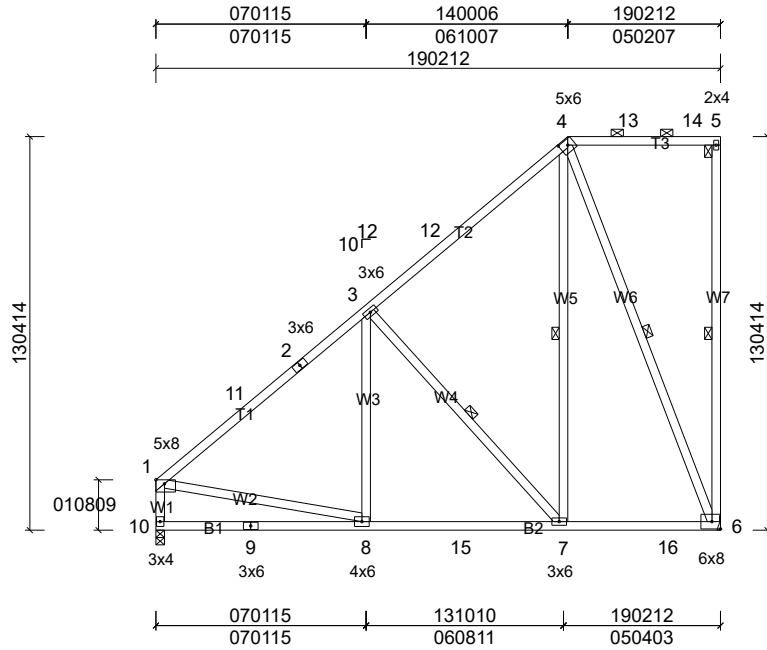
Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	B03	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource, Jack Mathis

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Scale = 1:71

Plate Offsets (X, Y): [1:Edge,000110], [4:000304,000204]

Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.05	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.11	8-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.84	Horz(CT)	-0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.04	7-8	>999	240	Weight: 159 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W3,W4,W2:2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-6, 3-7, 4-7, 4-6

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 6=758/ Mechanical, (min. 000108), 10=758/000308, (min. 000108)
Max Horiz 10=806 (LC 12)
Max Uplift 6=610 (LC 12), 10=99 (LC 12)
Max Grav 6=811 (LC 19), 10=791 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-794/30, 2-11=-695/30, 2-3=-591/61, 3-12=-451/61, 4-12=-323/109, 1-10=-729/137
BOT CHORD 9-10=-924/824, 8-9=-924/824, 8-15=-653/877, 7-15=-653/877, 7-16=-230/342, 6-16=-230/342
WEBS 3-7=-781/620, 4-7=-379/700, 4-6=-943/640, 1-8=0/506

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 14-0-6, Exterior (2) 14-0-6 to 18-3-4, Interior (1) 18-3-4 to 19-1-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 610 lb uplift at joint 6 and 99 lb uplift at joint 10.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

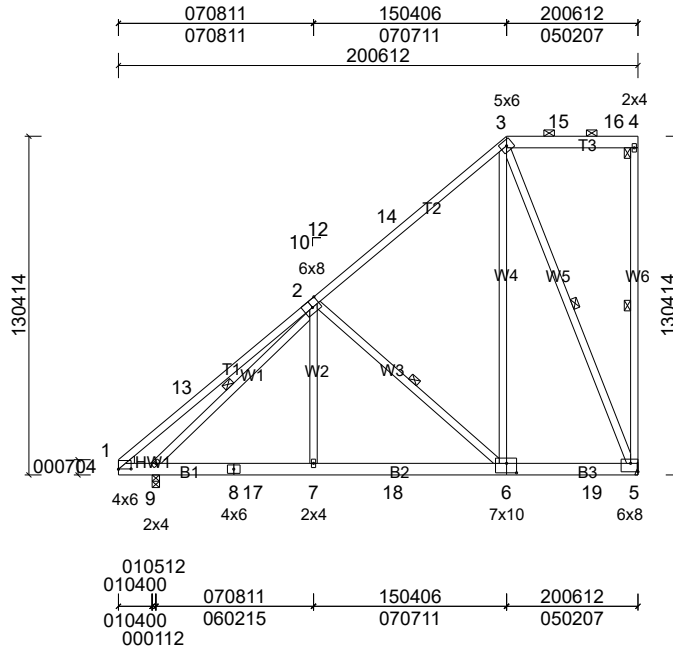
Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	B04	Piggyback Base Structural Gable	1	1	Job Reference (optional)

Builders FirstSource, Jack Mathis

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Scale = 1:83.7

Plate Offsets (X, Y): [1:000600,000002], [2:000312,Edge], [5:Edge,000400], [6:000412,000408]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.03	6-7	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.06	6-7	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	-0.01	5	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.04	6-7	>999	240	Weight: 185 lb FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* T3:2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* W6,W4,W5:2x4 SP No.2
WEDGE	Left: 2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied, except
BOT CHORD	2-0-0 oc purlins (6-0-0 max.): 3-4.
WEBS	Rigid ceiling directly applied.
	1 Row at midpt 2-9, 4-5, 2-6, 3-5

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS	(lb/size)	5=763/ Mechanical, (min. 000108), 9=871/000308, (min. 000108)
	Max Horiz	9=887 (LC 12)
	Max Uplift	5=-606 (LC 12), 9=-170 (LC 12)
	Max Grav	5=828 (LC 19), 9=938 (LC 19)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-13=-564/572, 2-13=-284/269, 2-14=-470/49, 3-14=-333/82
BOT CHORD	8-9=-718/958, 8-17=-718/958, 7-17=-718/958, 7-18=-716/960, 6-18=-716/960, 6-19=-239/357, 5-19=-239/357
WEBS	2-9=-682/0, 2-7=0/321, 3-6=-310/664, 2-6=-786/622, 3-5=-985/660

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 15-4-6, Exterior (2) 15-4-6 to 19-7-4, Interior (1) 19-7-4 to 20-5-0 zone; cantilever left exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 606 lb uplift at joint 5 and 170 lb uplift at joint 9.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

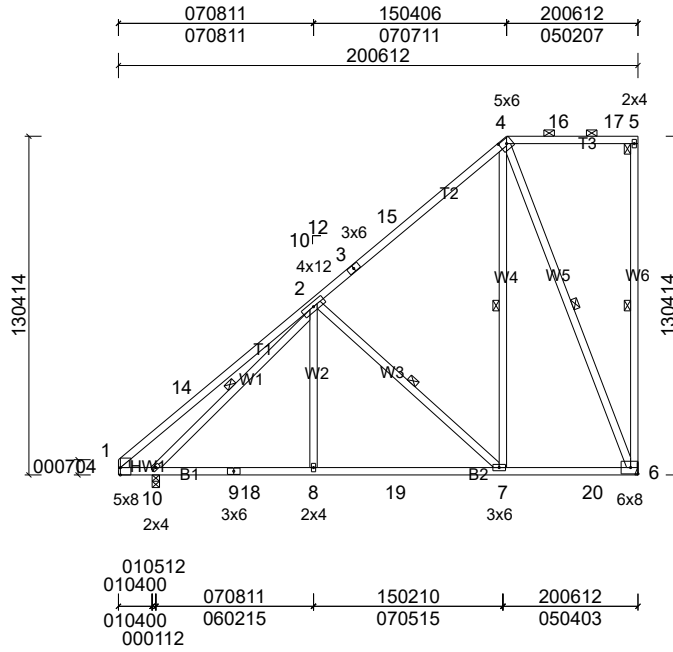
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
4492414 3-18-25	B05	Piggyback Base	1	1	

Builders FirstSource, Jack Mathis

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Scale = 1:83.7

Plate Offsets (X, Y): [1:000308,Edge], [4:000304,000204]

Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.06	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.14	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.86	Horz(CT)	-0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.05	7-8	>999	240	Weight: 165 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* W2,W3,W1:2x4 SP No.3
WEDGE	Left: 2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-6, 2-7, 4-7, 4-6, 2-10
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS (lb/size)	6=760/ Mechanical, (min. 000108), 10=874/000308, (min. 000108)
	Max Horiz 10=892 (LC 12)
	Max Uplift 6=-612 (LC 12), 10=-163 (LC 12)
	Max Grav 6=832 (LC 19), 10=944 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-14=-361/380, 2-14=-257/293, 2-3=-470/31, 3-15=-359/52, 4-15=-337/85
BOT CHORD	9-10=-713/946, 9-18=-713/946, 8-18=-713/946, 8-19=-713/947, 7-19=-713/947, 7-20=-235/349, 6-20=-235/349
WEBS	2-8=0/334, 2-7=-788/633, 4-7=-336/679, 4-6=-966/654, 2-10=-769/0

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 15-4-6, Exterior (2) 15-4-6 to 19-7-4, Interior (1) 19-7-4 to 20-5-0 zone; cantilever left exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 612 lb uplift at joint 6 and 163 lb uplift at joint 10.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

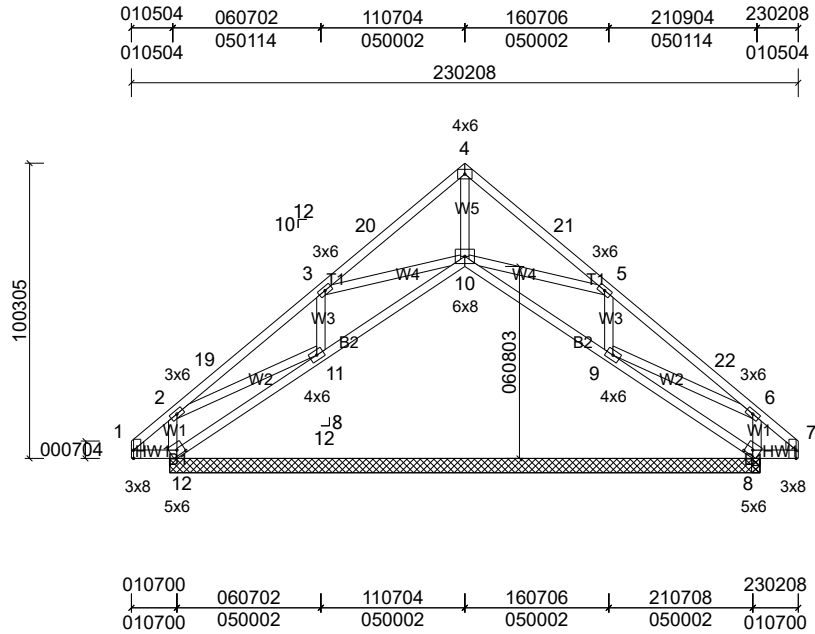
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
4492414 3-18-25	C01	Roof Special	1	1	

Builders FirstSource, Jack Mathis

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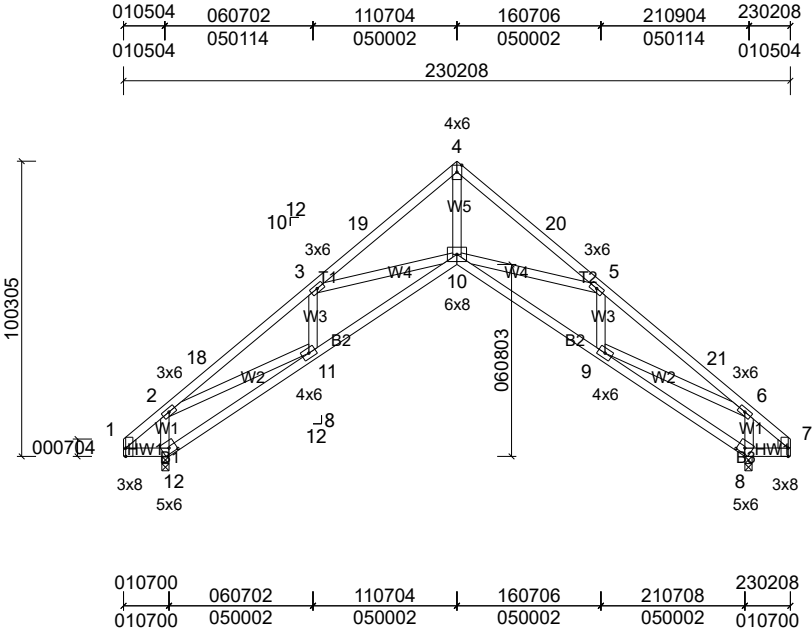
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
4492414 3-18-25	C02	Roof Special	3	1	

Builders FirstSource, Jack Mathis

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Scale = 1:73.3

Plate Offsets (X, Y): [1:000308,Edge], [7:000308,Edge], [8:000300,000203], [12:000300,000203]

Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.11	10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.22	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.33	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.14	10-11	>999	240	Weight: 133 lb	FT = 20%

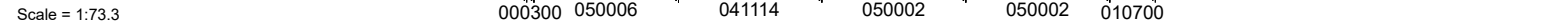
LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
WEDGE	Left: 2x4 SP No.3 Right: 2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 380 lb uplift at joint 12 and 380 lb uplift at joint 8.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

REACTIONS (lb/size)	
8=928/000300, (min. 000108), 12=928/000300, (min. 000108)	
Max Horiz 12=-440 (LC 8)	
Max Uplift 8=-380 (LC 13), 12=-380 (LC 12)	
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-18=-2053/848, 3-18=-1972/876, 3-19=-1940/489, 4-19=-1853/512, 4-20=-1867/575, 5-20=-2011/552, 5-21=-1796/602, 6-21=-1829/575
BOT CHORD	11-12=-548/550, 10-11=-864/2146, 9-10=-378/1597
WEBS	4-10=-474/2168, 5-10=-521/805, 5-9=-284/158, 6-9=-341/1434, 6-8=-1009/498, 3-10=-521/595, 3-11=-321/194, 2-11=-476/1571, 2-12=-1014/648

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 11-7-4, Exterior (2) 11-7-4 to 14-7-4, Interior (1) 14-7-4 to 23-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.11	9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.23	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.34	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.15	9-10	>999	240	Weight: 128 lb	FT = 20%

REACTIONS (lb/size)	7=938/000300, (min. 000108), 11=801/000300, (min. 000108) 11=801/000300, (min. 000108)	structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
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NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 10-3-4, Exterior (2) 10-3-4 to 13-3-4, Interior (1) 13-3-4 to 21-10-8 zone; cantilever right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
4492414 3-18-25	C04	Roof Special	3	1	

Builders FirstSource, Jack Mathis

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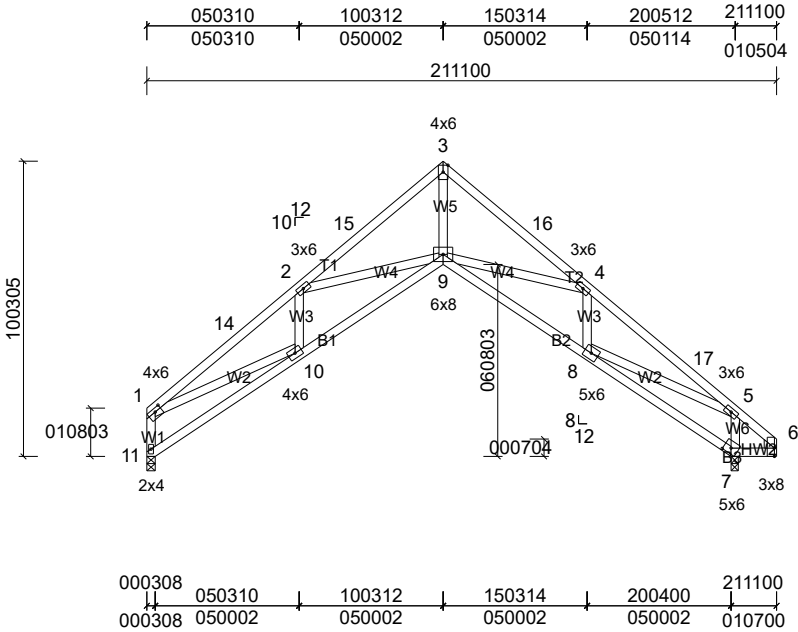


Plate Offsets (X, Y): [1:000212,000108], [6:000308,Edge], [7:000300,000203]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.11	9	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.23	9-10	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.34	7	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.15	9-10	>999	240	Weight: 128 lb FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* W1:2x4 SP No.2
WEDGE	Right: 2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

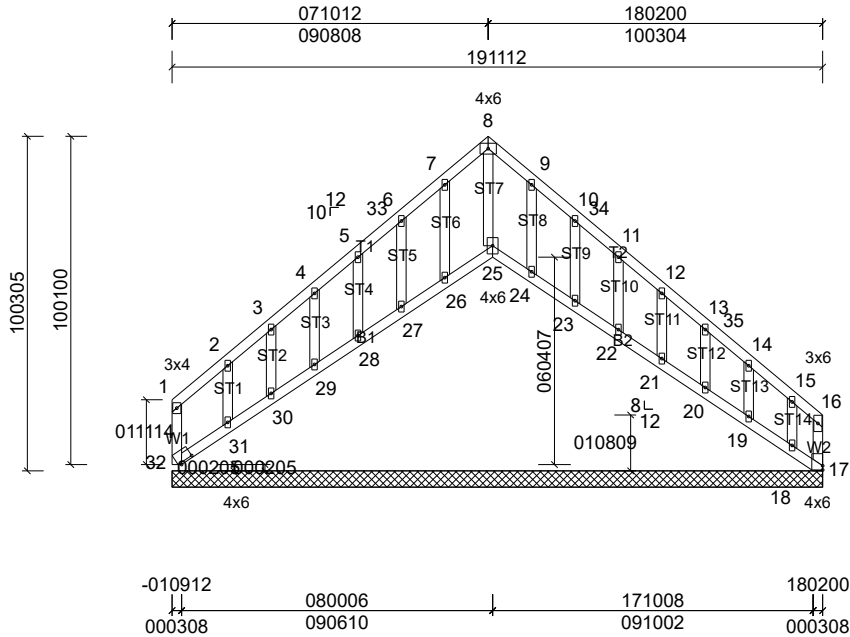
REACTIONS	(lb/size)	7=939/000300, (min. 000108), 11=803/000308, (min. 000108)
	Max Horiz	11=-479 (LC 10)
	Max Uplift	7=-382 (LC 13), 11=-314 (LC 12)
FORCES		
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-14=-2145/857, 2-14=-2049/879, 2-15=-1987/482, 3-15=-1899/516, 3-16=-1912/578, 4-16=-2057/555, 4-17=-1829/604, 5-17=-1862/577, 1-11=-960/508	
BOT CHORD	10-11=-544/657, 9-10=-875/2237, 8-9=-380/1626	
WEBS	2-10=-307/206, 2-9=-566/602, 3-9=-482/2229, 4-9=-515/803, 4-8=-292/159, 5-8=-343/1460, 5-7=-1020/508, 1-10=-494/1510	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 10-3-12, Exterior (2) 10-3-12 to 13-3-12, Interior (1) 13-3-12 to 21-11-0 zone; cantilever right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 382 lb uplift at joint 7 and 314 lb uplift at joint 11.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	C05	Scissor	1	1	Job Reference (optional)



Scale = 1:64.6

Plate Offsets (X, Y): [32:000415,000011]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(TL)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.02	17	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							
Weight: 130 lb FT = 20%											

LUMBER		BOT CHORD		12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 32, 25, 26, 27, 28, 29, 30, 31, 24, 23, 22, 21, 20, 19, 18.	
TOP CHORD	2x4 SP No.2	29-30=-365/367, 28-29=-356/359,	31-32=-430/433, 30-31=-336/337,	13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.	
BOT CHORD	2x4 SP No.2	27-28=-359/361, 26-27=-359/361,	29-30=-365/367, 28-29=-356/359,	14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.	
WEBS	2x4 SP No.2	25-26=-358/359, 24-25=-343/341,	27-28=-359/361, 26-27=-359/361,		
OTHERS	2x4 SP No.3	23-24=-359/359, 22-23=-359/359,	25-26=-358/359, 24-25=-343/341,		
BRACING		WEBS			
TOP CHORD	Structural wood sheathing directly applied, except end verticals.	8-25=-596/524, 2-31=-247/255,			
BOT CHORD	Rigid ceiling directly applied.	15-18=-347/352			

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS		NOTES	
All bearings 191112.		1) Unbalanced roof live loads have been considered for this design.	
(lb) - Max Horiz 32=-482 (LC 8)		2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 1-11-8 to 4-10-4, Interior (1) 4-10-4 to 11-6-4, Exterior (2) 11-6-4 to 14-6-4, Interior (1) 14-6-4 to 21-7-12 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60	
Max Uplift All uplift 100 (lb) or less at joint(s) 19, 24, 26, 30 except 17=-558 (LC 9), 18=-716 (LC 8), 20=-134 (LC 13), 21=-124 (LC 13), 22=-123 (LC 13), 23=-139 (LC 13), 25=-305 (LC 11), 27=-145 (LC 12), 28=-120 (LC 12), 29=-138 (LC 12), 31=-403 (LC 9), 32=-527 (LC 8)		3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.	
Max Grav All reactions 250 (lb) or less at joint (s) 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30 except 17=609 (LC 10), 18=735 (LC 11), 25=711 (LC 13), 31=460 (LC 10), 32=569 (LC 11)		4) All plates are 2x4 () MT20 unless otherwise indicated.	
		5) Gable requires continuous bottom chord bearing.	
		6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).	
		7) Gable studs spaced at 1-4-0 oc.	
		8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
		9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.	
		10) Bearing at joint(s) 32 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.	
		11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 26, 30, 24, 19 except (jt=lb) 32=527, 25=305, 17=558, 27=144, 28=119, 29=137, 31=402, 23=139, 22=123, 21=123, 20=133, 18=715.	
FORCES			
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD			
1-2=-263/249, 3-4=-222/278, 4-5=-303/334, 5-33=-380/380, 6-33=-364/389, 6-7=-470/478, 7-8=-518/543, 8-9=-526/559, 9-10=-478/513, 10-34=-373/445, 11-34=-388/436, 11-12=-311/390, 12-13=-237/333, 13-35=-255/280, 14-35=-265/275, 14-15=-284/276, 15-16=-483/453, 16-17=-463/431			

Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	C06	Scissor	4	1	Job Reference (optional)

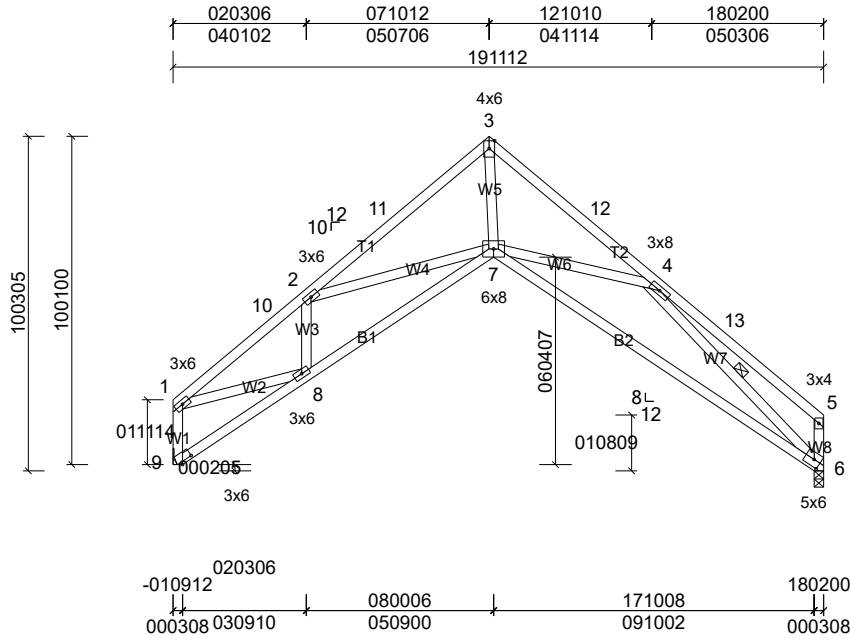


Plate Offsets (X, Y): [6:000209,000208], [9:000407,000100]												
Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.33	6-7	>707	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.70	6-7	>340	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.31	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.12	7-8	>999	240	Weight: 121 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W1,W8:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-6

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 308 lb uplift at joint 6 and 303 lb uplift at joint 9.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

REACTIONS (lb/size) 6=788/000308, (min. 000108), 9=788/ Mechanical, (min. 000108)
Max Horiz 9=-482 (LC 8)
Max Uplift 6=-308 (LC 13), 9=-303 (LC 12)

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

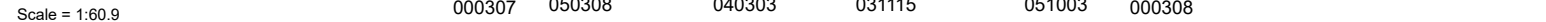
TOP CHORD 1-10=-1711/680, 2-10=-1665/699, 2-11=-1793/448, 3-11=-1697/471, 3-12=-1816/530, 4-12=-1946/495, 4-13=-450/221, 5-13=-488/200, 1-9=-972/431, 5-6=-472/243

BOT CHORD 8-9=-554/574, 7-8=-787/1830, 6-7=-659/1742

WEBS 2-8=-436/260, 2-7=-348/540, 3-7=-384/2009, 4-7=-457/749, 1-8=-447/1159, 4-6=-1778/707

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 1-11-8 to 4-11-8, Interior (1) 4-11-8 to 11-6-4, Exterior (2) 11-6-4 to 14-6-4, Interior (1) 14-6-4 to 21-7-12 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.

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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, except end verticals, and 2-0-0 oc purlins (3-11-8 max.): 1-2, 4-5.				
BOT CHORD	Rigid ceiling directly applied.				
	<div style="border: 1px solid black; padding: 5px;"> MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. </div>				
REACTIONS		(lb/size)	6=788/000308, (min. 000108), 10=788/ Mechanical, (min. 000108)		
	Max Horiz	10=	156 (LC 8)		
	Max Uplift	6=	334 (LC 13), 10=	326 (LC 12)	
FORCES		(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
					<p>* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.</p> <p>6) Refer to girder(s) for truss to truss connections.</p> <p>7) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.</p> <p>8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 326 lb uplift at joint 10 and 334 lb uplift at joint 6.</p> <p>9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.</p> <p>10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.</p> <p>11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.</p>

REACTIONS (lb/size) 6=788/000308, (min. 000108),
10=788/ Mechanical, (min. 000108)
Max Horiz 10=-156 (LC 8)
Max Uplift 6=-334 (LC 13), 10=-326 (LC 12)

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

TOP CHORD
1-10=-744/426, 1-11=-1237/594,
2-11=-1237/594, 2-12=-1575/686,
3-12=-1549/709, 3-13=-1637/776,
4-13=-1663/753, 4-14=-1402/647,
5-14=-1402/647, 5-6=-739/421

BOT CHORD
8-9=-808/1411, 7-8=-741/1595

WEBS
1-9=-653/1366, 2-9=-1256/721,
3-8=-723/1691, 4-8=-196/268,
4-7=-1326/733, 5-7=-690/1502

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust)
 Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 9-8-8, Exterior (2) 9-8-8 to 12-8-8, Interior (1) 12-8-8 to 19-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

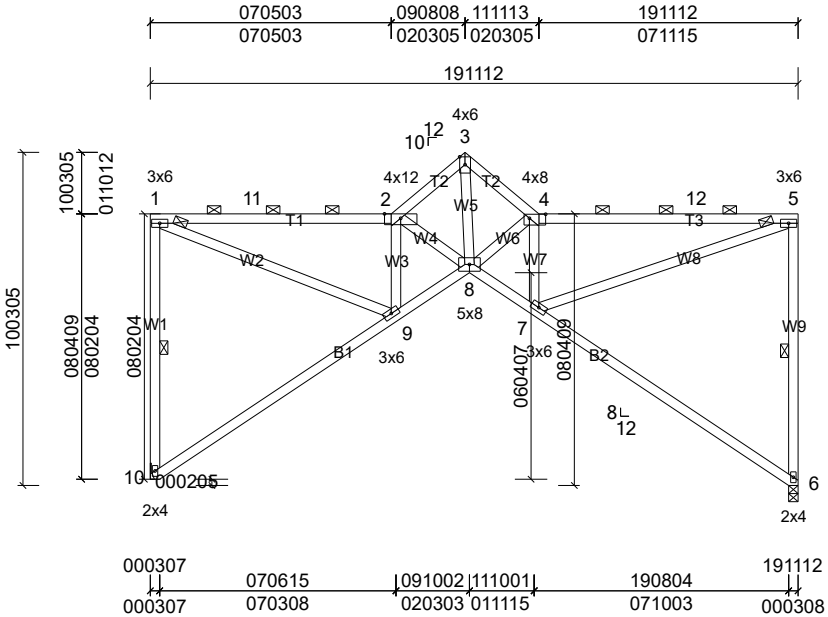
Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	C08	Roof Special	1	1	Job Reference (optional)

Builders FirstSource, Jack Mathis

Run: 8.82 S Dec 4 2024 Print: 8.820 S Dec 4 2024 MiTek Industries, Inc. Wed Mar 19 10:58:06

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ID:eyLb?kxhHja9RSssim6OQuzZSBq-fLkFDbJTcWrpPUm???7hKluDQDfUkh_Q4jSCTh7zZPK?



Scale = 1:63

Plate Offsets (X, Y): [4:000600,000108]

Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.14	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.31	6-7	>759	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.28	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.15	8	>999	240	Weight: 135 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2 *Except* T3:2x4 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 1-2, 4-5.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 1-10, 5-6
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

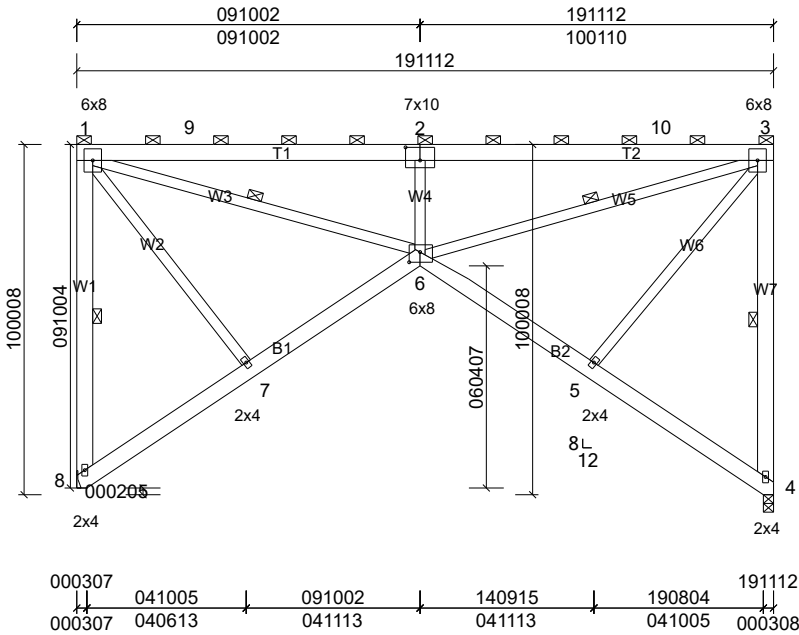
REACTIONS (lb/size)	
6=788/000308, (min. 000108), 10=788/ Mechanical, (min. 000108)	
Max Horiz 10=82 (LC 11)	
Max Uplift 6=-352 (LC 13), 10=-344 (LC 12)	
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-10=-731/424, 1-11=-1307/603, 2-11=-1307/603, 2-3=-1491/749, 3-4=-1594/821, 4-12=-1438/673, 5-12=-1438/673, 5-6=-727/439
BOT CHORD	8-9=-736/1469, 7-8=-785/1607
WEBS	1-9=-639/1384, 2-9=-1153/702, 3-8=-971/1873, 4-8=-312/199, 4-7=-1191/750, 5-7=-701/1498

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 9-8-8, Exterior (2) 9-8-8 to 11-11-13, Interior (1) 11-11-13 to 19-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

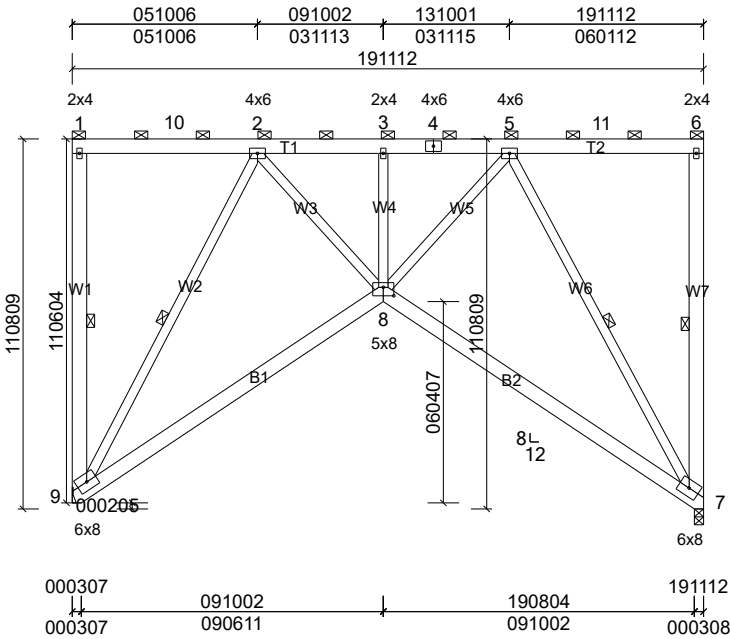
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 6 considers parallel to 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 344 lb uplift at joint 10 and 352 lb uplift at joint 6.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	C09	Roof Special	1	1	Job Reference (optional)



Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	C010	Roof Special	1	1	Job Reference (optional)



Scale = 1:66.2

Plate Offsets (X, Y): [8:000400,000304]

Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.09	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.19	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.10	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.05	8	>999	240	Weight: 213 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* W1,W7:2x6 SP No.2, W6:2x4 SP No.2

BRACING
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 1-9, 6-7, 5-7, 2-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 443 lb uplift at joint 9 and 443 lb uplift at joint 7.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

REACTIONS (lb/size) 7=781/000308, (min. 000108), 9=781/ Mechanical, (min. 000108)
Max Uplift 7=-443 (LC 8), 9=-443 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-840/441, 3-4=-840/441, 4-5=-840/441
BOT CHORD 8-9=-352/572, 7-8=-364/589
WEBS 2-8=-262/632, 5-8=-247/612, 5-7=-921/599, 2-9=-918/594

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 19-9-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

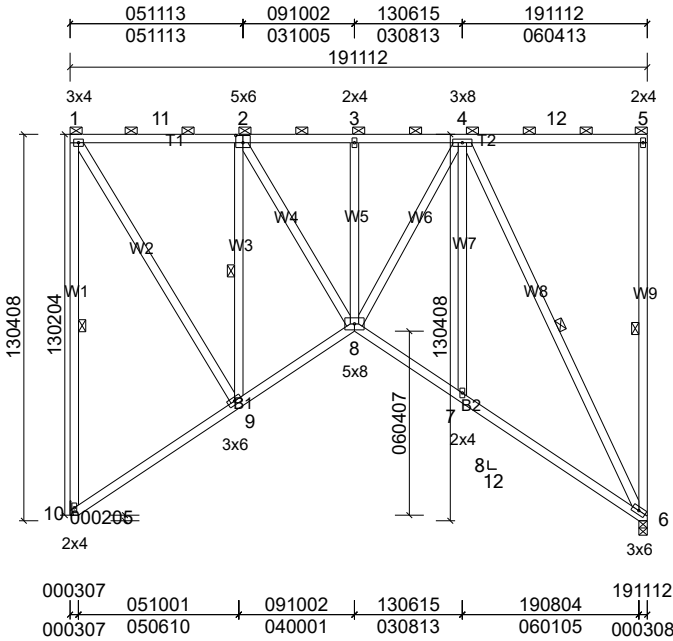
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
4492414 3-18-25	C011	Roof Special	1	1	

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Scale = 1:72.3

Plate Offsets (X, Y): [2:000300,000300]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.06	6-7	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.13	6-7	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.10	6	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.06	7-8	>999	240	Weight: 197 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W1,W9,W8:2x4 SP No.2

BRACING
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-5, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 1-10, 5-6, 2-9, 4-6

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 447 lb uplift at joint 10 and 447 lb uplift at joint 6.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

REACTIONS (lb/size) 6=788/000308, (min. 000108), 10=788/ Mechanical, (min. 000108)
Max Uplift 6=447 (LC 8), 10=447 (LC 8)

LOAD CASE(S) Standard

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-739/476, 1-11=-370/209, 2-11=-370/209, 2-3=-593/336, 3-4=-593/336
BOT CHORD 8-9=-278/466, 7-8=-292/489, 6-7=-287/520
WEBS 1-9=-390/690, 2-9=-717/546, 4-6=-920/524, 2-8=-233/417, 4-8=-217/385

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 19-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.

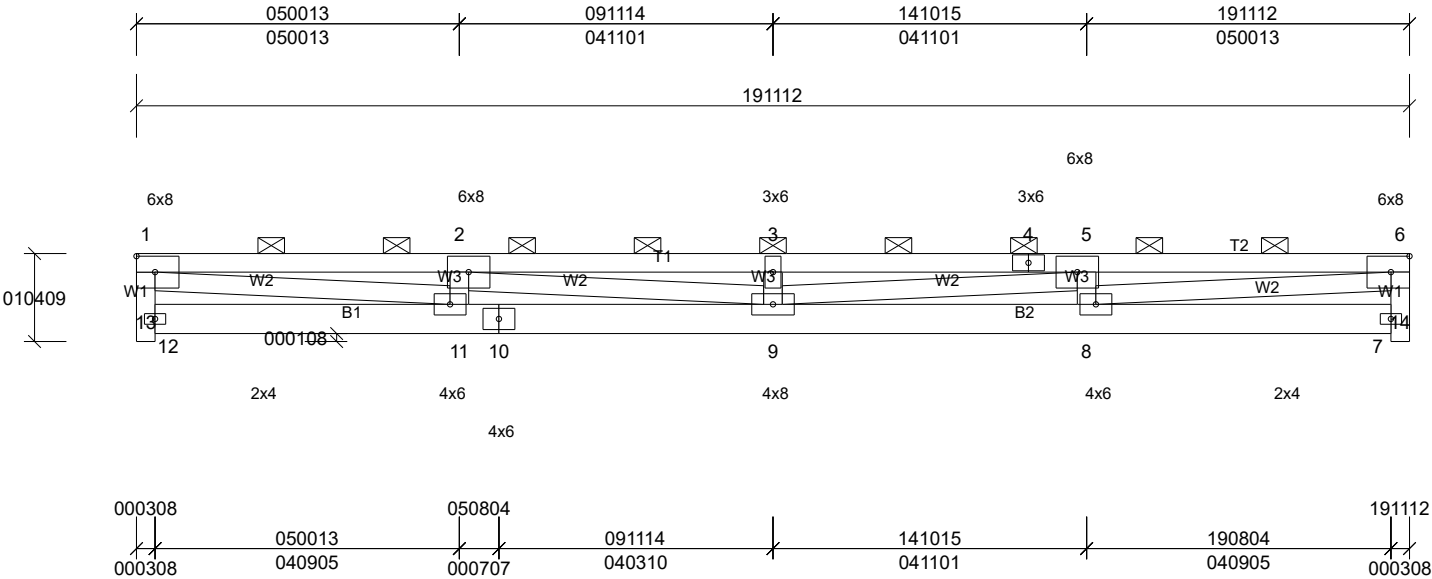
Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	C012	Roof Special Girder	1	2	Job Reference (optional)

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Scale = 1:36.2

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Horiz(TL)	0.00	14	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 216 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS All bearings 191112.
(lb) - Max Uplift All uplift 100 (lb) or less at joint(s) except 1=-118 (LC 4), 2=-245 (LC 4), 3=-219 (LC 4), 5=-245 (LC 4), 6=-118 (LC 4)
Max Grav All reactions 250 (lb) or less at joint (s) 1, 6, 7, 12 except 2=433 (LC 1), 3=383 (LC 1), 5=433 (LC 1)

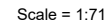
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 9) Gable studs spaced at 4-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 1, 118 lb uplift at joint 6, 244 lb uplift at joint 2, 219 lb uplift at joint 3 and 244 lb uplift at joint 5.
13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 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 000900 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 000900 oc.
Web connected as follows: 2x4 - 1 row at 000900 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) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; Lumber DOL=1.60 plate grip DOL=1.60
5) 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.
6) Provide adequate drainage to prevent water ponding.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

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Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.05	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.10	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.89	Horz(CT)	-0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TP12014	Matrix-MS		Wind(LL)	0.12	9-11	>999	240	Weight: 501 lb	FT = 20%

- 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 000900 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 000900 oc.
Web connected as follows: 2x4 - 1 row at 000900 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.

1) Dead + Roof Live (balanced): Lumber Increase=1.15,
Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-6=-60, 7-12=-20
Concentrated Loads (lb)
Vert: 10=-504 (F), 13=-404 (F), 14=-504 (F), 15=-504 (F),
17=-504 (F), 18=-504 (F), 20=-504 (F), 21=-738 (F),
23=-743 (F), 24=-743 (F)

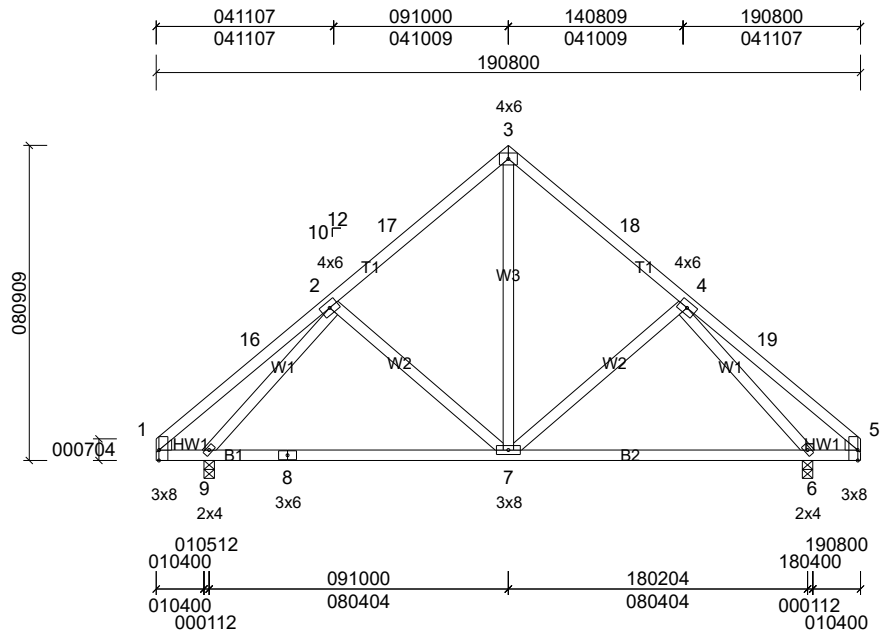
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
4492414 3-18-25	D02	Common	2	1	

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Scale = 1:57.5

Plate Offsets (X, Y): [1:000308,Edge], [5:000308,Edge]

Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.08	7-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.15	7-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.02	7	>999	240	Weight: 116 lb	FT = 20%

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.
BOT CHORD Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 321 lb uplift at joint 9 and 321 lb uplift at joint 6.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

REACTIONS (lb/size) 6=787/000308, (min. 000108),
9=787/000308, (min. 000108)
Max Horiz 9=364 (LC 9)
Max Uplift 6=-321 (LC 13), 9=-321 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-17=-743/360, 3-17=-710/383,
3-18=-710/383, 4-18=-743/360
BOT CHORD 8-9=-318/619, 7-8=-318/619, 6-7=-142/434
WEBS 3-7=-226/549, 4-7=-296/370, 2-7=-296/369,
2-9=-696/339, 4-6=-696/339

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 9-10-0, Exterior (2) 9-10-0 to 12-10-0, Interior (1) 12-10-0 to 19-8-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.

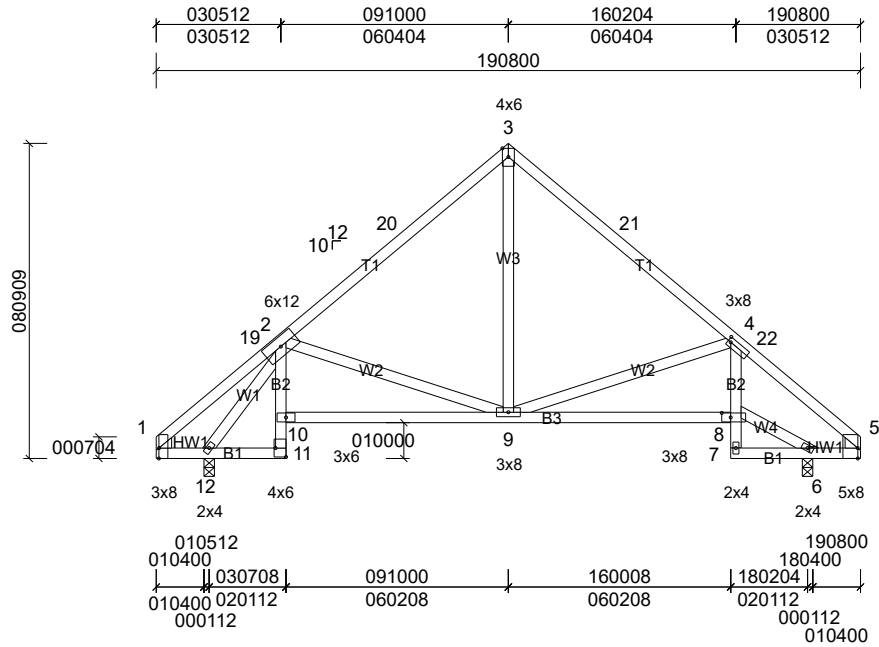
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
4492414 3-18-25	D03	Roof Special	1	1	

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Scale = 1:57.5

Plate Offsets (X, Y): [1:000308,Edge], [4:000100,000108], [5:000308,Edge], [8:000300,000108], [11:Edge,000308]

Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.07	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.16	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.14	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.09	8-9	>999	240	Weight: 116 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* B1:2x4 SP No.1
WEBS 2x4 SP No.3
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 324 lb uplift at joint 12 and 318 lb uplift at joint 6.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

REACTIONS (lb/size) 6=779/000308, (min. 000108),
12=794/000308, (min. 000108)
Max Horiz 12=364 (LC 9)
Max Uplift 6=-318 (LC 13), 12=-324 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-20=-777/335, 3-20=-734/358,
3-21=-730/383, 4-21=-773/357,
4-22=-753/294, 5-22=-787/273
BOT CHORD 11-12=-369/653, 9-10=-553/948,
8-9=-249/769, 6-7=-124/271, 5-6=-122/435
WEBS 3-9=-147/476, 4-9=-538/474, 2-9=-466/519,
2-12=-979/380

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 9-10-0, Exterior (2) 9-10-0 to 12-10-0, Interior (1) 12-10-0 to 19-8-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.

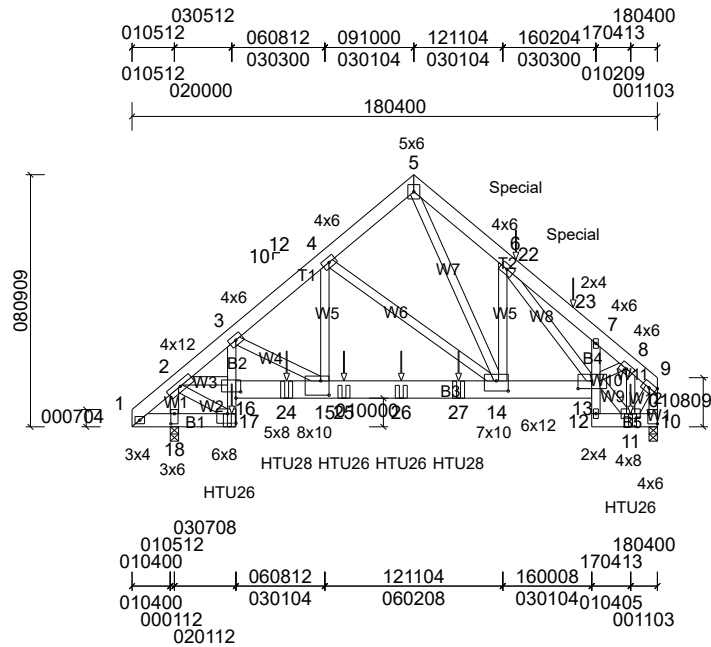
Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	D04	Roof Special Girder	1	3	Job Reference (optional)

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Scale = 1:61.7

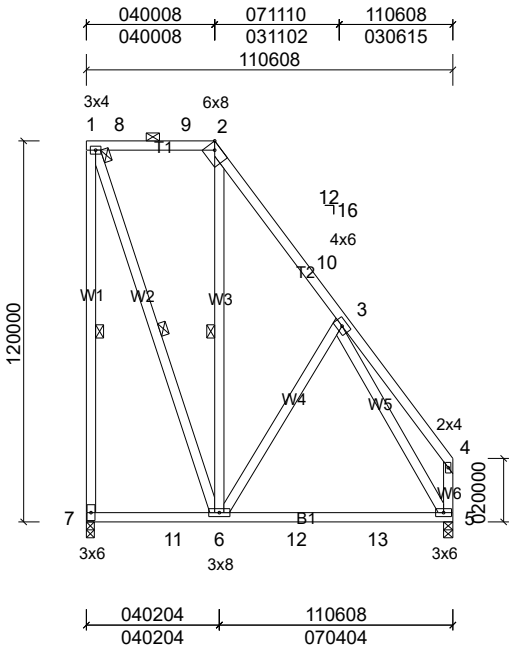
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Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.06	14-15	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.12	14-15	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.56	Horz(CT)	0.08	10	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.10	14-15	>999	240	Weight: 535 lb FT = 20%

LUMBER		1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:	12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1364 lb down and 691 lb up at 13-4-12, and 1344 lb down and 677 lb up at 15-4-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
TOP CHORD	2x6 SP No.2	Top chords connected as follows: 2x6 - 3 rows staggered at 000800 oc, 2x4 - 1 row at 000900 oc.	
BOT CHORD	2x6 SP No.2 *Except* B2:2x4 SP No.3, B3:2x8 SP 2400F 2.0E or 2x8 SP DSS, B4:2x4 SP No.2	Bottom chords connected as follows: 2x6 - 3 rows staggered at 000400 oc, 2x4 - 1 row at 000900 oc, 2x8 - 3 rows staggered at 000800 oc.	
WEBS	2x4 SP No.2	Web connected as follows: 2x4 - 1 row at 000900 oc.	
BRACING			LOAD CASE(S) Standard
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.		1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.		Uniform Loads (lb/ft) Vert: 1-5=-60, 5-9=-60, 17-19=-20, 13-16=-20, 10-12=-20
REACTIONS	(lb/size) 10=6495/000308, (min. 000209), 18=6121/000308, (min. 000207) Max Horiz 18=358 (LC 24) Max Uplift 10=-3185 (LC 8), 18=-3030 (LC 8)		Concentrated Loads (lb) Vert: 17=-1448 (F), 11=-1290 (F), 22=-1324 (F), 23=-1304 (F), 24=-1448 (F), 25=-1448 (F), 26=-1448 (F), 27=-1448 (F)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	1-2=-290/180, 2-3=-8290/4296, 3-4=-7145/3655, 4-5=-3558/1907, 5-6=-6936/3650, 6-22=-6430/3329, 22-23=-7354/3728, 7-23=-8225/4132, 7-8=-7069/3504, 8-9=-3380/1667, 9-10=-5742/2821		
BOT CHORD	17-18=-495/566, 16-17=-863/1366, 3-16=-720/1177, 16-24=-3460/6361, 15-24=-3428/6291, 15-25=-2804/5450, 25-26=-2804/5450, 26-27=-2804/5450, 14-27=-2804/5450, 13-14=-2628/5384, 12-13=-230/486, 7-13=-2146/1183, 11-12=-405/795, 10-11=-152/309		
WEBS	3-15=-1067/759, 4-15=-2197/4268, 4-14=-3397/1951, 5-14=-3610/6824, 6-14=-1642/1056, 6-13=-356/495, 2-16=-3176/5869, 8-13=-2297/4688, 2-18=-5603/2828, 2-17=-318/325, 8-11=-4054/1997, 11-13=-841/1747, 9-11=-1706/3485		
NOTES			

Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	E01	Piggyback Base	3	1	Job Reference (optional)

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Scale = 1:65.7

Plate Offsets (X, Y): [2:000213,Edge]

Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.08	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.15	5-6	>892	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.02	5-6	>999	240	Weight: 117 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* W2,W6:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.

BOT CHORD Rigid ceiling directly applied or 7-7-1 oc bracing.

WEBS 1 Row at midpt 1-7, 1-6, 2-6

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 572 lb uplift at joint 7.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

REACTIONS (lb/size) 5=450/000308, (min. 000108), 7=450/000300, (min. 000108)
Max Horiz 7=-687 (LC 13)
Max Uplift 7=-572 (LC 13)
Max Grav 5=483 (LC 22), 7=550 (LC 20)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-7=-770/725, 3-10=-293/56, 3-4=-250/240, 4-5=-280/256
BOT CHORD 7-11=-585/687, 6-11=-585/687
WEBS 1-6=-649/753, 3-6=-547/576, 3-5=-429/188

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 4-0-8, Exterior (2) 4-0-8 to 7-0-8, Interior (1) 7-0-8 to 11-4-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

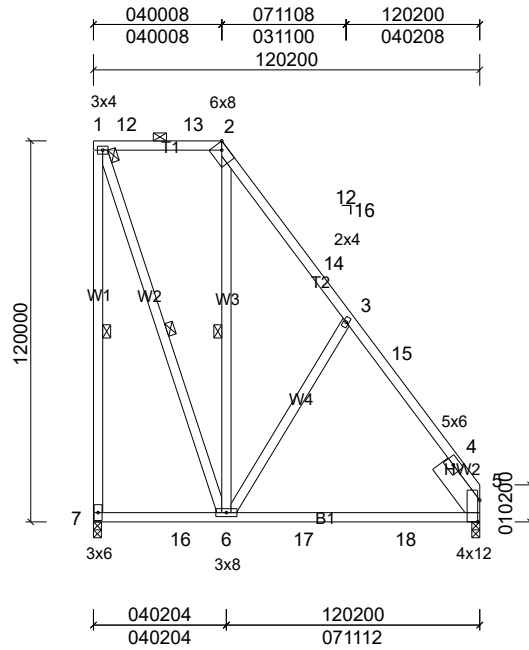
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
4492414 3-18-25	E02	Piggyback Base	1	1	

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Scale = 1:65.7

Plate Offsets (X, Y): [2:000213,Edge], [5:000803,Edge]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.10	6-10	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.17	6-10	>831	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.07	5	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.13	6-10	>999	240	Weight: 113 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W2:2x4 SP No.2
SLIDER Right 2x8 SP 2400F 2.0E or DSS -- 011112

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
BOT CHORD Rigid ceiling directly applied or 7-0-4 oc bracing.
WEBS 1 Row at midpt 1-7, 1-6, 2-6

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 569 lb uplift at joint 7.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

REACTIONS (lb/size) 5=481/000300, (min. 000108), 7=481/000300, (min. 000108)
Max Horiz 7=-759 (LC 13)
Max Uplift 7=-569 (LC 13)
Max Grav 5=496 (LC 22), 7=585 (LC 20)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-7=-803/727, 1-12=-256/213, 12-13=-256/213, 2-13=-256/213, 3-14=-322/83, 3-15=-324/0, 4-15=-441/0, 4-5=-582/113
BOT CHORD 7-16=-641/759, 6-16=-641/759, 6-17=-80/329, 17-18=-80/329, 5-18=-80/329
WEBS 1-6=-650/781, 3-6=-587/570

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 4-0-8, Exterior (2) 4-0-8 to 7-0-8, Interior (1) 7-0-8 to 12-2-0 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.

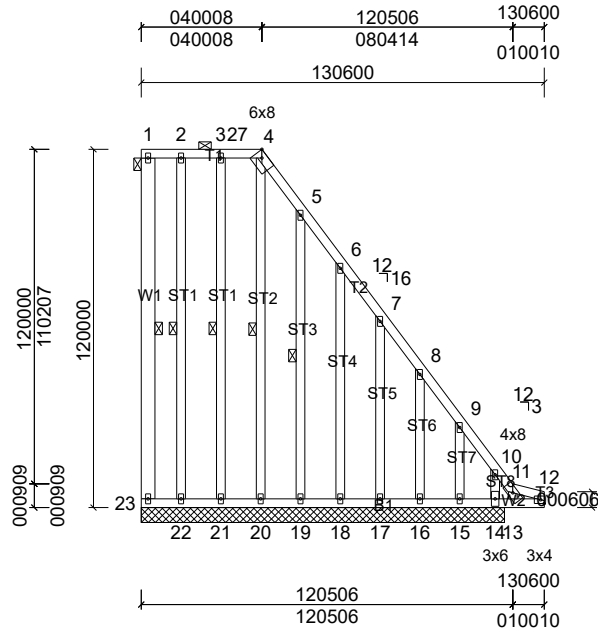
Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	E03	Piggyback Base Supported Gable	1	1	Job Reference (optional)

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Scale = 1:68.8

Plate Offsets (X, Y): [4:000213,Edge]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horiz(TL)	0.01	14	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 174 lb FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x6 SP No.2 *Except* W2:2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-3-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-4.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
WEBS	2-2-0 oc bracing: 14-15,13-14. 1 Row at midpt 1-23, 2-22, 3-21, 4-20, 5-19

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS

All bearings	120200.
(lb) - Max Horiz	23=-795 (LC 13)
Max Uplift	All uplift 100 (lb) or less at joint(s) 21, 22, 23 except 14=-774 (LC 11), 15=-1298 (LC 13), 17=-278 (LC 13), 18=-217 (LC 13), 19=-231 (LC 13), 20=-112 (LC 13)
Max Grav	All reactions 250 (lb) or less at joint (s) 16, 17, 18, 19, 20, 21, 22, 23 except 14=1691 (LC 13), 15=683 (LC 11)

FORCES

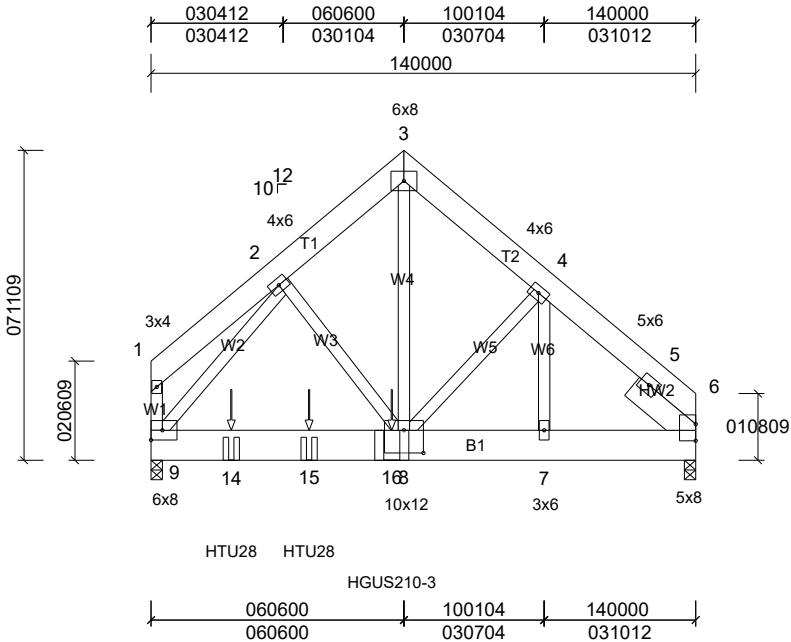
(lb) - Max. Comp./Max. Ten. - All forces	250 (lb) or less except when shown.
TOP CHORD	5-6=-323/258, 6-7=-539/432, 7-8=-758/608, 8-9=-934/743, 9-10=-1402/1140, 10-11=-1003/782, 11-12=-859/673
BOT CHORD	22-23=-650/841, 21-22=-650/841, 20-21=-650/841, 19-20=-649/840, 18-19=-649/840, 17-18=-649/840, 16-17=-649/840, 15-16=-649/840, 14-15=-649/840, 13-14=-649/840, 12-13=-649/840
WEBS	5-19=-243/255, 6-18=-244/254, 7-17=-246/258, 9-15=-523/597, 10-14=-585/436, 11-13=-341/260

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-2-12 to 3-2-12, Exterior (2) 3-2-12 to 4-0-8, Corner (3) 4-0-8 to 7-0-8, Exterior (2) 7-0-8 to 13-6-0 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 23, 22, 21 except (jt=lb) 20=112, 19=231, 18=216, 17=277, 15=1298, 14=774.
- Non Standard bearing condition. Review required.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	G01	Common Girder	1	3	Job Reference (optional)



Scale = 1:50.7

Plate Offsets (X, Y): [8:000600,000700]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.03	8-9	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.06	8-9	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.01	6	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.03	8-9	>999	240	Weight: 475 lb FT = 20%

LUMBER
TOP CHORD 2x8 SP 2400F 2.0E or 2x8 SP DSS
BOT CHORD 2x10 SP 2400F 2.0E or 2x10 SP DSS
WEBS 2x4 SP No.2
SLIDER Right 2x8 SP 2400F 2.0E or DSS -- 011112

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 (lb/size) 6=1945/000308, (min. 000108), 9=4043/000308, (min. 000111)
Max Horiz 9=-345 (LC 6)
Max Uplift 6=-689 (LC 9), 9=-1412 (LC 9)
Max Grav 6=2314 (LC 16), 9=5060 (LC 16)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-625/247, 2-3=-3228/1055, 3-4=-3237/1037, 4-5=-2511/777, 5-6=-1293/385, 1-9=-592/233
BOT CHORD 9-14=-624/2089, 14-15=-624/2089, 15-16=-624/2089, 8-16=-624/2089, 7-8=-466/1734, 6-7=-466/1734
WEBS 2-8=-340/1125, 3-8=-1089/3599, 4-8=-454/1442, 4-7=-1243/357, 2-9=-2950/818

- NOTES**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x8 - 2 rows staggered at 000900 oc, 2x4 - 1 row at 000900 oc.
Bottom chords connected as follows: 2x10 - 5 rows staggered at 000900 oc.
Web connected as follows: 2x4 - 1 row at 000900 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 689 lb uplift at joint 6 and 1412 lb uplift at joint 9.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Use Simpson Strong-Tie HTU28 (20-16d Girder, 26-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 4-0-12 to connect truss(es) T42 (1 ply 2x10 SP) to front face of bottom chord.
 - Use Simpson Strong-Tie HGUS210-3 (46-10d Girder, 16-10d Truss) or equivalent at 6-2-4 from the left end to connect truss(es) T44 (3 ply 2x10 SP) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-6=-60, 9-10=-20
Concentrated Loads (lb)
Vert: 14=-1635 (F), 15=-1635 (F), 16=-1610 (F)

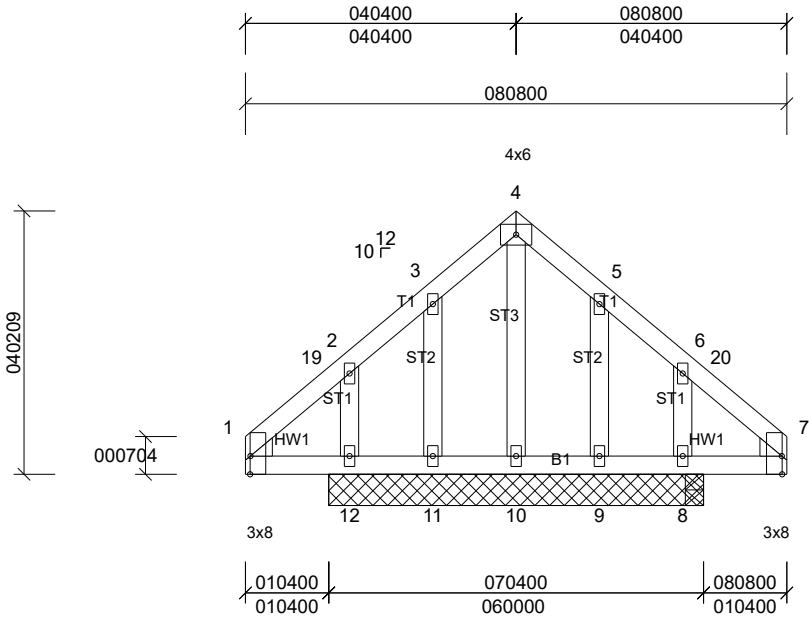
Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	H01	Common Structural Gable	1	1	Job Reference (optional)

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Scale = 1:26.5

Plate Offsets (X, Y): [1:000308,Edge], [7:000308,Edge]

Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	0.00	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 49 lb	FT = 20%

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.
BOT CHORD Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS

All bearings 060000. except 8=000308
(lb) - Max Horiz 12=160 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s)
except 8=170 (LC 12), 9=169 (LC 13), 11=171 (LC 12), 12=173 (LC 13)
Max Grav All reactions 250 (lb) or less at joint (s) 8, 9, 10, 11, 12

FORCES

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 4-4-0, Exterior (2) 4-4-0 to 7-4-0, Interior (1) 7-4-0 to 8-8-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 11, 172 lb uplift at joint 12, 168 lb uplift at joint 9 and 169 lb uplift at joint 8.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

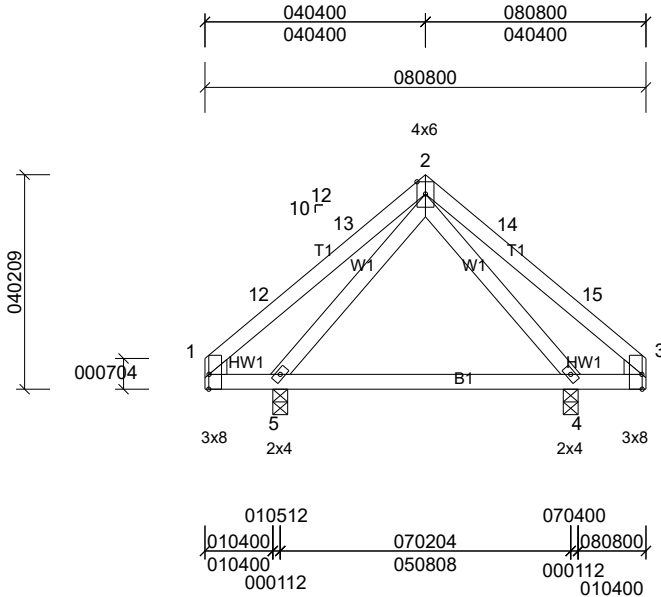
Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	H02	Common	1	1	Job Reference (optional)

Builders FirstSource, Jack Mathis

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Scale = 1:30.3

Plate Offsets (X, Y): [1:000308,Edge], [3:000308,Edge]

Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.02	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.04	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	-0.01	4-5	>999	240	Weight: 45 lb	FT = 20%

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

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

LOAD CASE(S) Standard

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 4=347/000308, (min. 000108),
5=347/000308, (min. 000108)
Max Horiz 5=160 (LC 9)
Max Uplift 4=-141 (LC 13), 5=-141 (LC 12)

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

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 4-4-0, Exterior (2) 4-4-0 to 7-4-0, Interior (1) 7-4-0 to 8-8-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 5 and 141 lb uplift at joint 4.
 - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

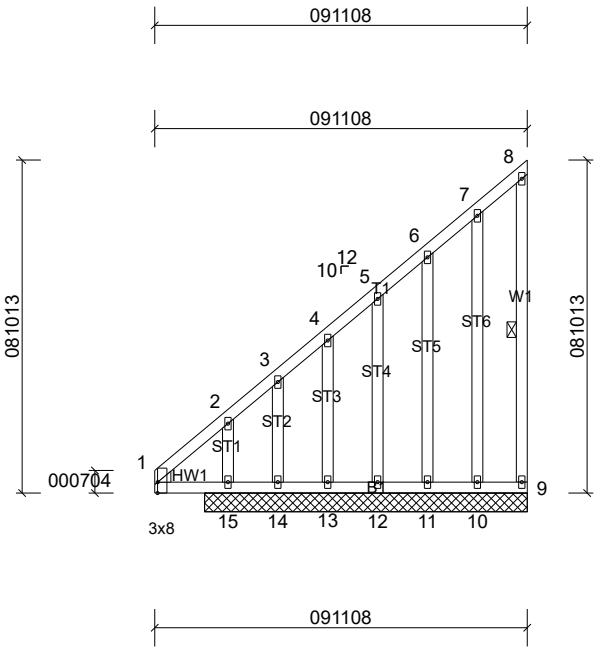
Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	M01	Monopitch Supported Gable	1	1	Job Reference (optional)

Builders FirstSource, Jack Mathis

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Scale = 1:61.6

Plate Offsets (X, Y): [1:000308,Edge]

Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 87 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
WEDGE	Left: 2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 8-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS

All bearings	080708.
(lb) - Max Horiz	15=568 (LC 12)
Max Uplift	All uplift 100 (lb) or less at joint(s) 10 except 9=-129 (LC 12), 11=-133 (LC 12), 12=-174 (LC 12), 14=-1151 (LC 12), 15=-294 (LC 10)
Max Grav	All reactions 250 (lb) or less at joint (s) 9, 10, 11, 12, 13 except 14=454 (LC 10), 15=1048 (LC 12)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces	250 (lb) or less except when shown.
TOP CHORD	1-2=-594/472, 2-3=-751/603, 3-4=-408/330, 4-5=-344/281
BOT CHORD	1-15=-458/570
WEBS	3-14=-454/548, 2-15=-333/179

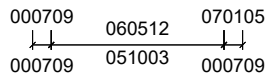
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 3-3-8, Exterior (2) 3-3-8 to 9-9-12 zone; cantilever left exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 10 except (jt=lb) 9=129, 11=133, 12=174, 14=1150, 15=294.
- Non Standard bearing condition. Review required.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

LOAD CASE(S) Standard

Builders FirstSource, Jack Mathis Run: 8.82 S Dec 4 2024 Print: 8.820 S Dec 4 2024 MiTek Industries, Inc. Wed Mar 19 10:58:08 Page: ID:RzCDvQCFcXzIjFQ137pbkzZkk0-ckr0eHLj875YenwO6YjoqJyKTJz96XNBmhak?zZPZ



Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 26 lb	FT = 20%

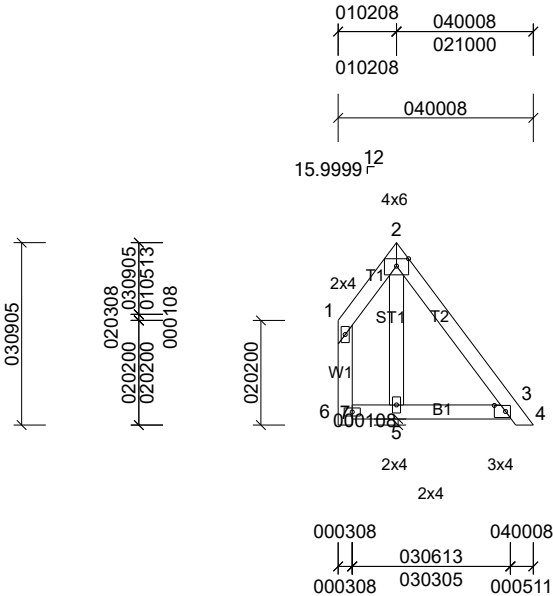
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ca II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 3-6-10, Exterior (2) 3-6-10 to 6-5-12, Interior (1) 6-5-12 to 6-10-9 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4'-0" oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 6 except (jt=lb) 1=222, 5=147, 2=303, 4=264, 2=303, 4=264.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	PB02	Piggyback	1	1	Job Reference (optional)

Builders FirstSource, Jack Mathis



Scale = 1:28.7

Plate Offsets (X, Y): [2:Edge,000113], [3:000213,000108]

Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 23 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 6, 3, 3 except (jt=lb) 5=222.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

REACTIONS All bearings 030305.

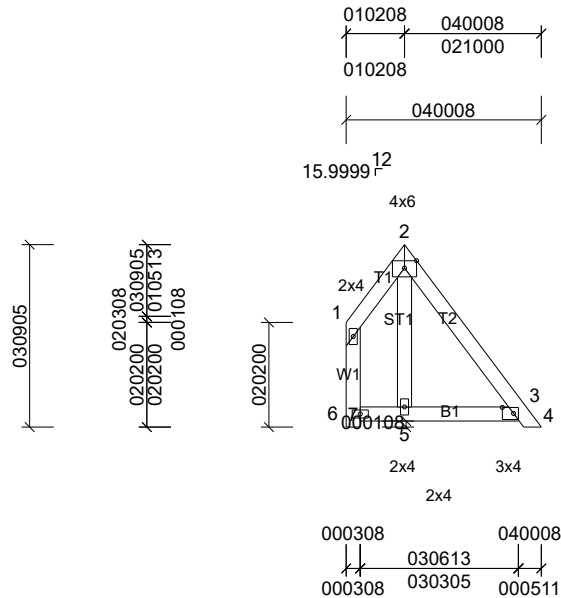
(lb) - Max Horiz 7=-186 (LC 13)

Max Uplift All uplift 100 (lb) or less at joint(s) 3, 6 except 5=-223 (LC 13)

Max Grav All reactions 250 (lb) or less at joint (s) 3, 6 except 5=311 (LC 20)

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.



Scale = 1:28.7

Plate Offsets (X, Y): [2:Edge,000113], [3:000213,000108][illegible]

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 4-0-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 6, 3, 3 except (jt=lb) 5=222.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

REACTIONS All bearings 030305.

(lb) - Max Horiz 7=-186 (LC 13)
 Max Uplift All uplift 100 (lb) or less at joint(s)
 3, 6 except 5=-223 (LC 13)
 Max Grav All reactions 250 (lb) or less at joint
 (s) 3, 6 except 5=311 (LC 20)

FORCES

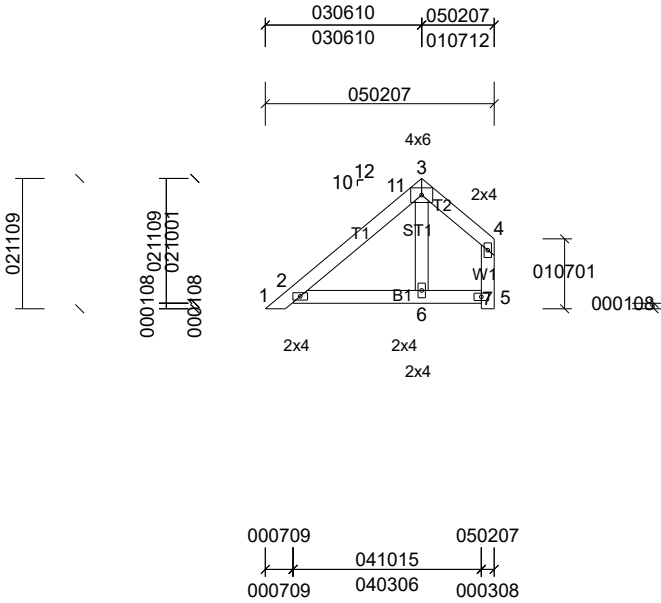
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4'-0" oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.

Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	PB04	Piggyback	10	1	Job Reference (optional)

Builders FirstSource, Jack Mathis



Scale = 1:42.4

Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 22 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS

All bearings 050207.

(lb) - Max Horiz 1=143 (LC 12)

Max Uplift All uplift 100 (lb) or less at joint(s) 5, 6 except 1=235 (LC 19), 2=362 (LC 12)

Max Grav All reactions 250 (lb) or less at joint (s) 5, 6 except 1=289 (LC 12), 2=397 (LC 19)

FORCES

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

TOP CHORD 1-2=-294/288

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

2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 3-6-10, Exterior (2) 3-6-10 to 5-0-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) Gable requires continuous bottom chord bearing.

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

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

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.

8) Bearing at joint(s) 1, 7, 2, 5, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 5, 6 except (jt=lb) 1=234, 2=361, 2=361.

10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

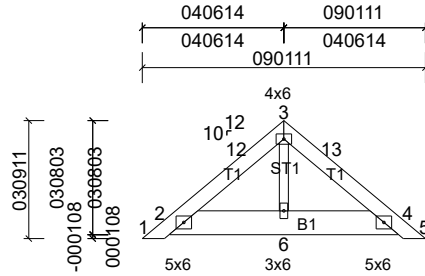
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
4492414 3-18-25	PB06	Piggyback	6	1	

Builders FirstSource, Jack Mathis

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Scale = 1:66.1

Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 60 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP 2400F 2.0E or 2x10 SP DSS
OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=-8/070405, (min. 000108),
4=8/070405, (min. 000108),
6=653/070405, (min. 000108)
Max Horiz 2=-156 (LC 10)
Max Uplift 2=-8 (LC 1), 4=-90 (LC 23), 6=-295 (LC 12)
Max Grav 2=3 (LC 13), 4=100 (LC 24), 6=653 (LC 1)

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

TOP CHORD 2-12=-228/278, 3-12=-97/250
WEBS 3-6=-443/291

NOTES

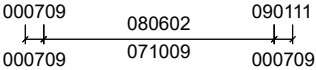
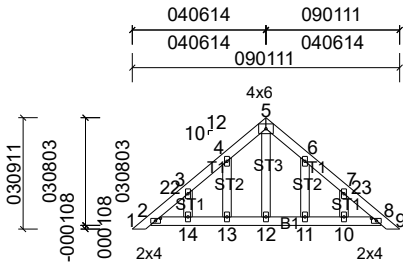
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-4-5 to 3-4-5, Interior (1) 3-4-5 to 4-6-14, Exterior (2) 4-6-14 to 7-4-3, Interior (1) 7-4-3 to 8-9-7 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 2, 90 lb uplift at joint 4 and 295 lb uplift at joint 6.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	PB07	Piggyback	1	1	Job Reference (optional)

Builders FirstSource, Jack Mathis



Scale = 1:70.5

Plate Offsets (X, Y): [2:000201,000100], [8:000201,000100]

Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 43 lb	FT = 20%

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.
BOT CHORD Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS

All bearings 071009.
(lb) - Max Horiz 2=161 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s)
2, 8 except 10=-143 (LC 13),
11=-116 (LC 13), 13=-118 (LC 12),
14=-143 (LC 12)
Max Grav All reactions 250 (lb) or less at joint
(s) 2, 8, 10, 11, 12, 13, 14

FORCES

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-12 to 3-2-14, Interior (1) 3-2-14 to 4-6-14, Exterior (2) 4-6-14 to 7-6-14, Interior (1) 7-6-14 to 8-10-15 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 8, 2, 8 except (jt=lb) 13=118, 14=143, 11=115, 10=142.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

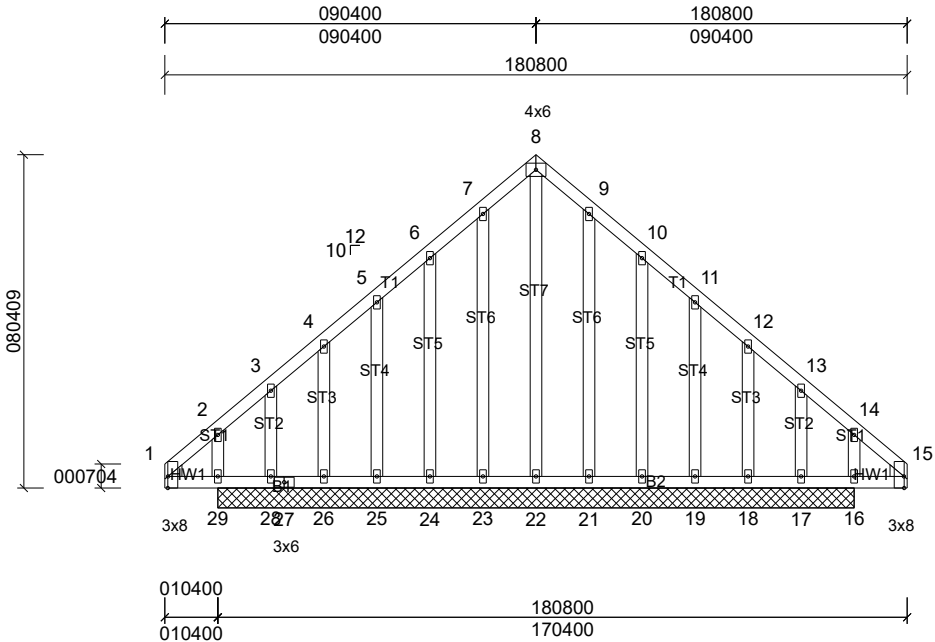
Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	T03GE	Common Supported Gable	1	1	Job Reference (optional)

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Scale = 1:52.2

Plate Offsets (X, Y): [1:000308,Edge], [15:000308,Edge]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.57	Horiz(TL)	0.00	16	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 147 lb FT = 20%

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.
BOT CHORD Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS

All bearings 160000.
(lb) - Max Horiz 29=-346 (LC 8)
Max Uplift All uplift 100 (lb) or less at joint(s)
18, 21, 23, 26 except 16=-228 (LC 9), 17=-334 (LC 13), 19=-135 (LC 13), 20=-146 (LC 13), 24=-145 (LC 12), 25=-136 (LC 12), 28=-351 (LC 12), 29=-261 (LC 8)
Max Grav All reactions 250 (lb) or less at joint (s) 18, 19, 20, 21, 23, 24, 25, 26 except 16=331 (LC 10), 17=332 (LC 11), 22=415 (LC 13), 28=357 (LC 10), 29=364 (LC 11)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-236/266, 4-5=-163/273, 5-6=-241/328, 6-7=-333/429, 7-8=-371/474, 8-9=-371/474, 9-10=-333/429, 10-11=-241/318, 11-12=-163/259
WEBS 8-22=-465/319

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 3-0-0, Exterior (2) 3-0-0 to 9-4-0, Corner (3) 9-4-0 to 12-4-0, Exterior (2) 12-4-0 to 18-8-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 (I) MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 23, 26, 21, 18 except (jt=lb) 24=144, 25=135, 28=351, 29=261, 20=145, 19=134, 17=334, 16=228.
- Non Standard bearing condition. Review required.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

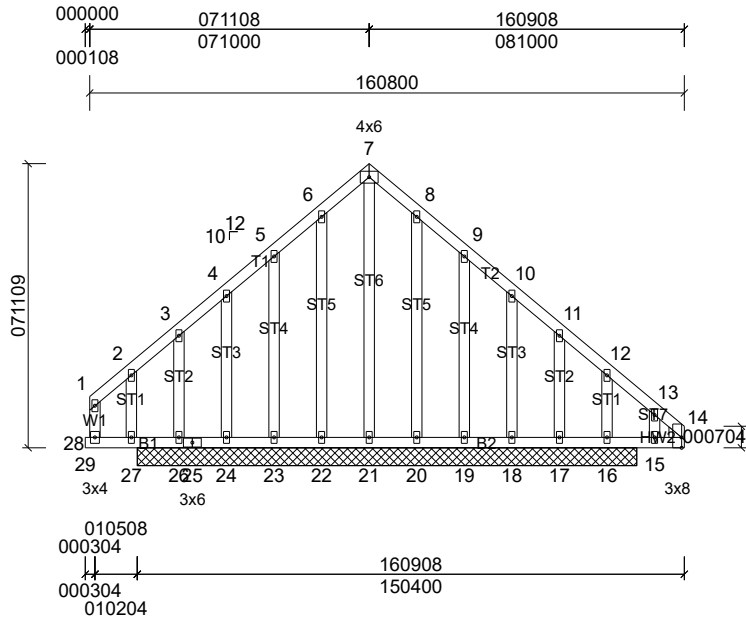
Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	T04GE	Common Supported Gable	1	1	Job Reference (optional)

Builders FirstSource, Jack Mathis

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Scale = 1:56.3

Plate Offsets (X, Y): [14:000308,Edge]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.47	Horiz(TL)	0.01	16	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							
Weight: 133 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
WEDGE	Right: 2x4 SP No.3

BRACING

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS

All bearings	140000.
(lb) - Max Horiz	26=-362 (LC 10)
Max Uplift	All uplift 100 (lb) or less at joint(s) 20, 21, 22 except 16=-433 (LC 9), 17=-532 (LC 8), 18=-113 (LC 12), 19=-159 (LC 13), 23=-135 (LC 12), 24=-242 (LC 9), 26=-315 (LC 13)
Max Grav	All reactions 250 (lb) or less at joint (s) 18, 19, 20, 22, 23 except 16=591 (LC 10), 17=516 (LC 11), 21=406 (LC 12), 24=259 (LC 10), 26=326 (LC 20)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces	250 (lb) or less except when shown.
TOP CHORD	4-5=-179/275, 5-6=-273/388, 6-7=-318/439, 7-8=-318/439, 8-9=-273/388, 9-10=-183/317, 10-11=-163/250, 11-12=-316/359, 12-13=-225/281, 13-14=-235/267
BOT CHORD	25-26=-257/245, 24-25=-257/245, 23-24=-257/245, 22-23=-257/245, 21-22=-257/245, 20-21=-257/245, 19-20=-257/245, 18-19=-257/245, 17-18=-257/245, 16-17=-257/245, 15-16=-257/245, 14-15=-257/245
WEBS	7-21=-426/260, 3-26=-264/212, 11-17=-243/261

NOTES

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

- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-1-12 to 3-1-12, Exterior (2) 3-1-12 to 7-10-0, Corner (3) 7-10-0 to 10-10-0, Exterior (2) 10-10-0 to 16-8-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 (||) MT20 unless otherwise indicated.
- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 21, 22, 20 except (jt=lb) 23=134, 24=241, 26=315, 19=158, 18=113, 17=531, 16=433.
- 9) Non Standard bearing condition. Review required.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

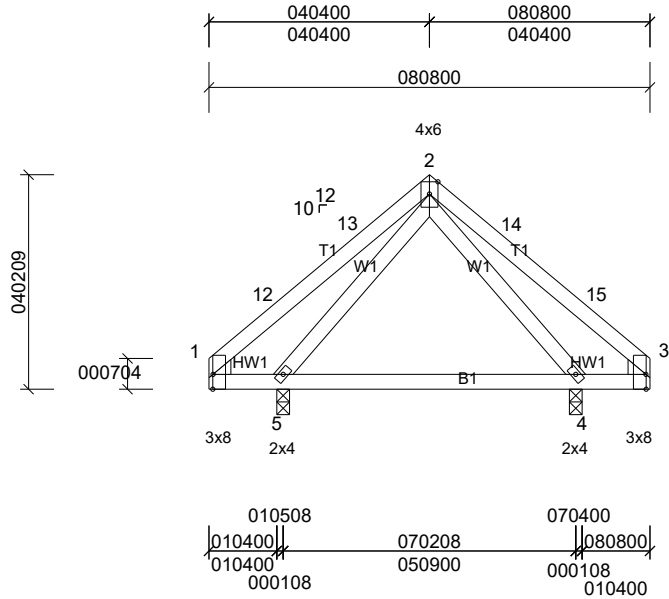
Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	T38	Common	16	1	Job Reference (optional)

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Scale = 1:30.3

Plate Offsets (X, Y): [1:000308,Edge], [3:000308,Edge]

Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.02	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.04	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	-0.01	4-5	>999	240	Weight: 45 lb	FT = 20%

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

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

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 4=347/000300, (min. 000108),
5=347/000300, (min. 000108)

Max Horiz 5=160 (LC 9)

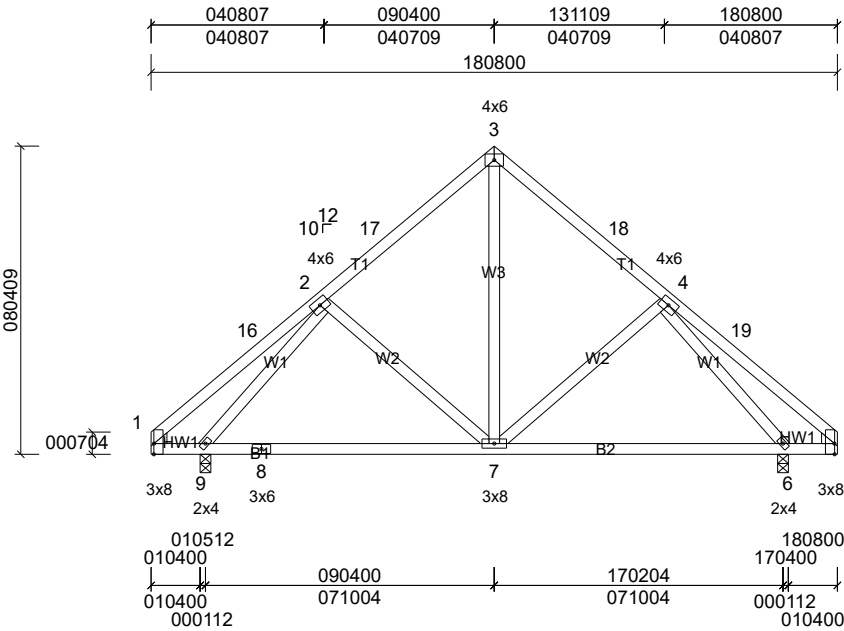
Max Uplift 4=-141 (LC 13), 5=-141 (LC 12)

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

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 4-4-0, Exterior (2) 4-4-0 to 7-4-0, Interior (1) 7-4-0 to 8-8-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 5 and 141 lb uplift at joint 4.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
4492414 3-18-25	T39	Common	4	1	



Scale = 1:56

Plate Offsets (X, Y): [1:000308,Edge], [5:000308,Edge]

Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.06	7-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.12	7-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.02	7	>999	240	Weight: 110 lb	FT = 20%

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.

BOT CHORD Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

REACTIONS	(lb/size)	6=747/000308, (min. 000108), 9=747/000308, (min. 000108)
	Max Horiz	9=346 (LC 9)
	Max Uplift	6=-305 (LC 13), 9=-305 (LC 12)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-17=-694/333, 3-17=-663/362, 3-18=-663/362, 4-18=-694/333	
BOT CHORD	8-9=-296/575, 7-8=-296/575, 6-7=-130/398	
WEBS	3-7=-210/506, 4-7=-270/347, 2-7=-270/346, 2-9=-667/323, 4-6=-667/323	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 9-4-0, Exterior (2) 9-4-0 to 12-4-0, Interior (1) 12-4-0 to 18-8-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 305 lb uplift at joint 9 and 305 lb uplift at joint 6.

Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	T42	Attic	3	1	Job Reference (optional)

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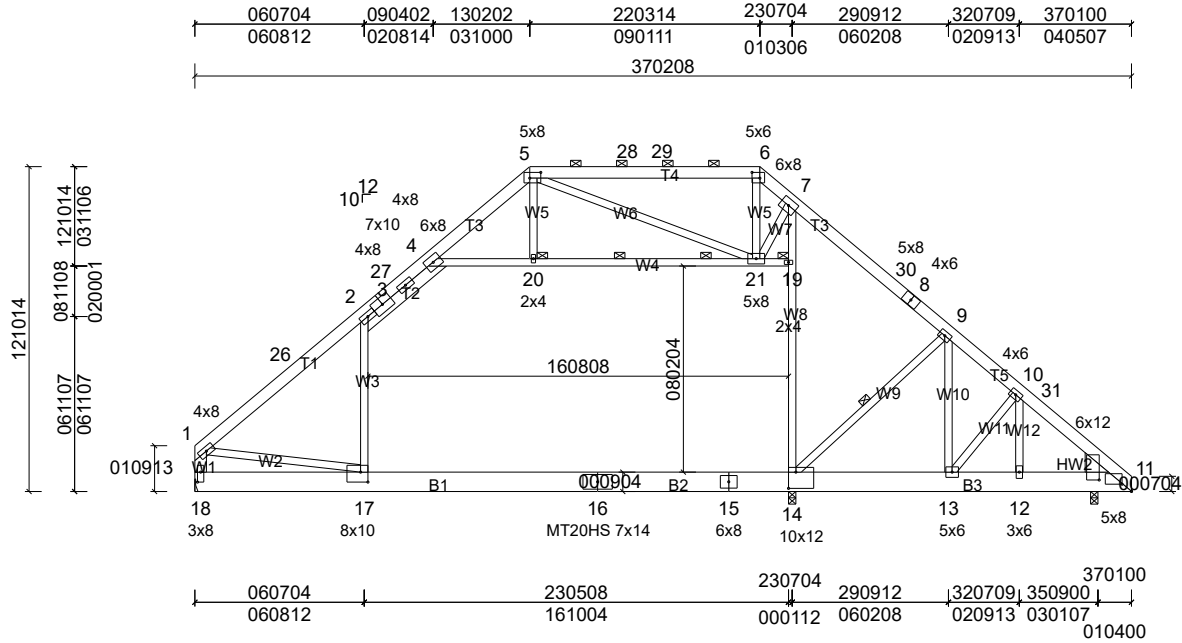


Plate Offsets (X, Y): [5:000504,000212], [6:000312,000212], [11:000408,000306], [11:000507,010306], [14:000308,000712], [17:000308,000412], [18:000412,000108]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.44	14-17	>638	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.66	14-17	>425	240	MT20HS 187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.02	11	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.22	14-17	>999	240	Weight: 382 lb FT = 20%

LUMBER		WEBS			
TOP CHORD	2x6 SP No.2 *Except* T1:2x6 SP 2400F 2.0E or 2x6 SP DSS	2-17=-110/751, 14-19=-564/1552, 7-19=-509/1521, 9-14=-221/697, 9-13=-901/129, 4-20=-1387/495, 20-21=-1383/496, 6-21=-405/1026, 1-18=-2115/468, 1-17=-211/1719, 5-21=-201/742, 7-21=-1404/626, 10-12=-406/251, 10-13=-212/369			13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
BOT CHORD	2x10 SP 2400F 2.0E or 2x10 SP DSS				14) Attic room checked for L/360 deflection.
WEBS	2x4 SP No.3 *Except* W3,W8,W4:2x4 SP No.2, W1:2x6 SP No.2				LOAD CASE(S) Standard
WEDGE	Right: 2x10 SP DSS or 2400F 2.0E				

BRACING	
TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-9-9 max.): 5-6.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 9-14
WEBS	2 Rows at 1/3 pts 19-20
JOINTS	1 Brace at Jt(s): 19, 20

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS	(lb/size)	11=1656/000308, (min. 000200), 14=149/000308, (min. 000108), 18=1648/ Mechanical, (min. 000108)
	Max Horiz	18=-543 (LC 8)
	Max Uplift	11=-704 (LC 12), 14=-633 (LC 8), 18=-548 (LC 12)
	Max Grav	11=1986 (LC 20), 14=714 (LC 11), 18=2149 (LC 20)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD		1-26=-2389/436, 2-26=-2254/465, 2-3=-1959/683, 3-27=-1834/735, 4-27=-1772/757, 4-5=-990/575, 5-28=-1202/660, 28-29=-1202/660, 6-29=-1202/660, 6-7=-1629/817, 7-30=-2385/1003, 8-30=-2509/972, 8-9=-2544/967, 9-10=-2000/886, 10-31=-1771/707, 11-31=-1846/691
BOT CHORD		17-18=-522/543, 16-17=-554/2042, 15-16=-554/2042, 14-15=-554/2042, 13-14=-503/1591, 12-13=-410/1365, 11-12=-410/1365

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-4-4 to 4-0-14, Interior (1) 4-0-14 to 13-5-2, Exterior (2) 13-5-2 to 18-8-5, Interior (1) 18-8-5 to 22-6-14, Exterior (2) 22-6-14 to 27-10-0, Interior (1) 27-10-0 to 37-4-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members.
 - 7) Ceiling dead load (5.0 psf) on member(s). 2-4, 4-20, 20-21, 19-21; Wall dead load (5.0psf) on member (s).2-17, 14-19
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-17
 - 9) Refer to girder(s) for truss to truss connections.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 548 lb uplift at joint 18, 633 lb uplift at joint 14 and 704 lb uplift at joint 11.
 - 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

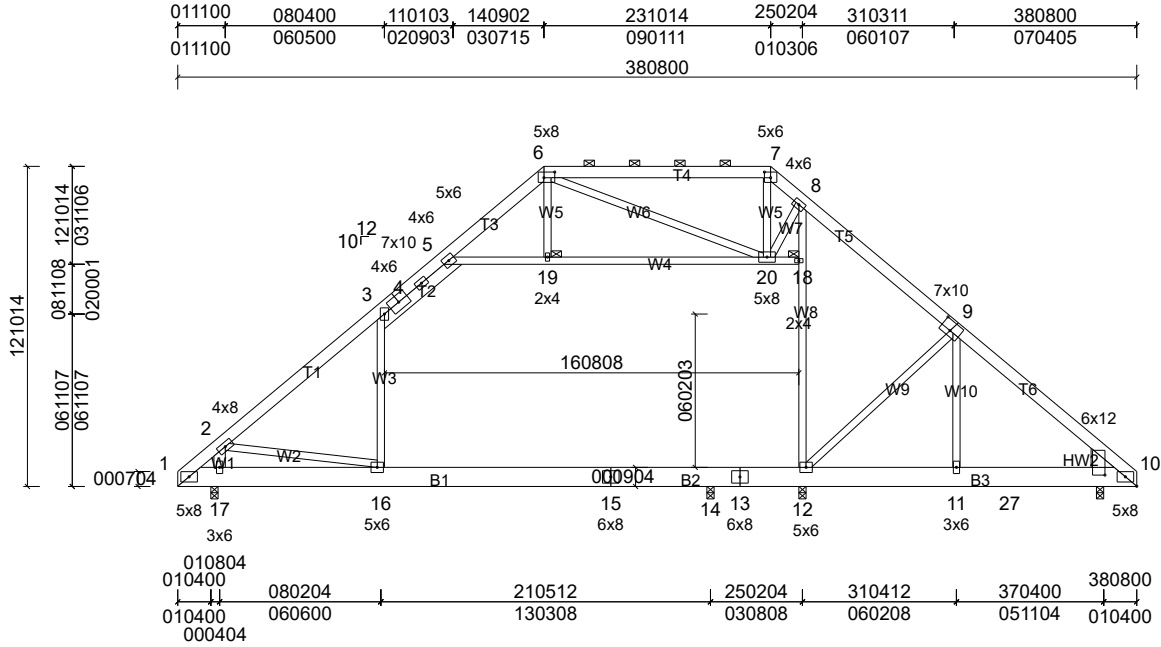
Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	T43	Attic Girder	2	3	Job Reference (optional)

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Plate Offsets (X, Y): [6:000504,000212], [7:000300,000212], [9:000500,000408], [10:000908,000201], [10:000507,010306]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.07	14-16	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.12	14-16	>999	240	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.01	10	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.06	14-16	>999	240	Weight: 1146 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP 2400F 2.0E or 2x10 SP DSS
WEBS 2x4 SP No.3 *Except* W3,W8,W4:2x4 SP No.2, W1:2x6 SP No.2
WEDGE Right: 2x10 SP DSS or 2400F 2.0E

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 18, 19

REACTIONS All bearings 000308.
(lb) - Max Horiz 17=-550 (LC 6)
Max Uplift All uplift 100 (lb) or less at joint(s) except 10=-697 (LC 8), 12=-1469 (LC 16), 17=-632 (LC 8)
Max Grav All reactions 250 (lb) or less at joint (s) except 10=1878 (LC 16), 12=581 (LC 8), 14=1807 (LC 14), 17=1971 (LC 16)

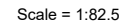
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 6-7=-951/596, 7-8=-1297/791, 8-9=-2001/1012, 9-10=-2025/828, 1-2=-648/277, 2-3=-1892/491, 3-4=-1547/686, 4-5=-1485/745, 5-6=-943/495
BOT CHORD 1-17=-272/663, 16-17=-656/1075, 15-16=-581/1631, 14-15=-581/1631, 13-14=-581/1631, 12-13=-581/1631, 11-12=-469/1519, 11-27=-466/1515, 10-27=-466/1515
WEBS 3-16=-138/467, 12-18=-572/1118, 8-18=-517/1085, 5-19=-1008/501, 19-20=-1004/503, 9-12=-392/481, 7-20=-417/835, 2-17=-1638/664, 2-16=-24/753, 6-20=-201/506, 8-20=-1079/639

NOTES

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 000900 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 000900 oc.
Web connected as follows: 2x4 - 1 row at 000900 oc, 2x6 - 2 rows staggered at 000900 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (5.0 psf) on member(s). 3-5, 5-19, 19-20, 18-20; Wall dead load (5.0psf) on member (s).3-16, 12-18
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-16, 12-14
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1469 lb uplift at joint 12, 631 lb uplift at joint 17 and 697 lb uplift at joint 10.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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Loading	(psf)	Spacing	020000	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.16	11-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.25	11-14	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.09	11-14	>999	240	Weight: 1087 lb FT = 20%	

NOTES

- LOAD CASE(S) Standard

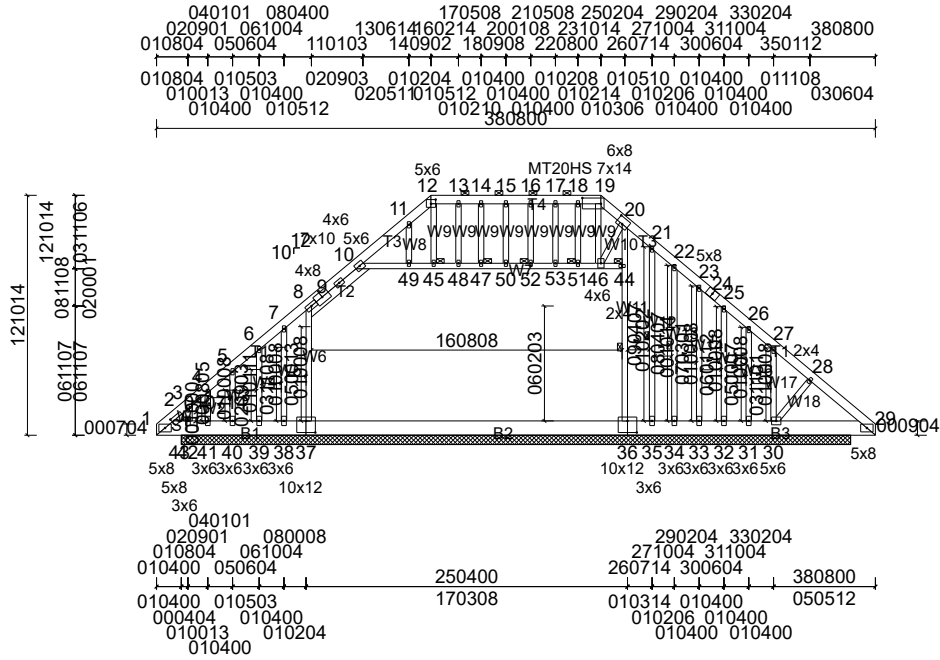
Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	T46	Piggyback Base Supported Gable	1	1	Job Reference (optional)

Builders FirstSource, Jack Mathis

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Scale = 1:89.2

Plate Offsets (X, Y): [12:000300,000212], [19:010000,000312], [20:000400,000400], [36:000600,000708], [37:000600,000708], [43:000400,000408]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(TL)	n/a	-	n/a	999	MT20HS
BCLL	0.0*	Rep Stress Incr	YES	WB	0.76	Horiz(TL)	-0.01	30	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							
Weight: 452 lb FT = 20%											

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP 2400F 2.0E or 2x10 SP DSS
WEBS 2x4 SP No.3 *Except* W6,W11,W7:2x4 SP No.2, W1:2x6 SP No.2
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 12-19.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 36-44, 21-35, 22-34
JOINTS 1 Brace at Jt(s): 44, 45, 47, 51, 52

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 360000.
(lb) - Max Horiz 43=550 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s)
34, 41 except 30=-1075 (LC 9), 31=-2059 (LC 19), 32=-253 (LC 12), 33=-223 (LC 22), 35=-1695 (LC 18), 37=-387 (LC 12), 38=-1979 (LC 18), 40=-183 (LC 12), 42=-873 (LC 21), 43=-900 (LC 8)
Max Grav All reactions 250 (lb) or less at joint (s) 33, 35, 38, 40, 41 except 30=2394 (LC 1), 31=1244 (LC 9), 32=614 (LC 1), 34=588 (LC 18), 36=1977 (LC 18), 37=2790 (LC 19), 39=453 (LC 18), 42=782 (LC 10), 43=1106 (LC 21)

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

TOP CHORD 1-2=-406/434, 2-3=-413/444, 3-4=-361/400, 4-5=-317/391, 5-6=-306/379, 6-7=-252/384, 7-8=-196/452, 8-9=-466/517, 9-10=-601/649, 10-11=-656/666, 11-12=-604/742, 12-13=-574/687, 13-14=-574/687, 14-15=-574/687, 15-16=-574/687, 16-17=-574/687, 17-18=-574/687, 18-19=-574/687, 19-20=-582/726, 20-21=-582/711, 21-22=-509/637, 22-23=-423/540, 23-24=-331/440, 24-25=-339/435, 25-26=-306/424, 26-27=-412/509, 27-28=-205/352, 28-29=-293/344
BOT CHORD 1-43=-345/355, 42-43=-365/368, 41-42=-365/368, 40-41=-365/368, 39-40=-365/368, 38-39=-365/368, 37-38=-365/368, 36-37=-372/365, 35-36=-373/366, 34-35=-373/366, 33-34=-373/366, 32-33=-373/366, 31-32=-373/366, 30-31=-373/366, 8-37=-1080/801, 36-44=-252/166, 20-44=-377/229, 10-49=-201/322, 45-49=-200/322, 45-48=-205/325, 47-48=-205/325, 47-50=-205/325, 50-52=-205/325, 52-53=-205/325, 51-53=-205/325, 46-51=-205/325, 19-46=-325/111, 20-46=-412/672, 7-38=-240/378, 27-30=-508/294, 28-30=-216/255

WEBS

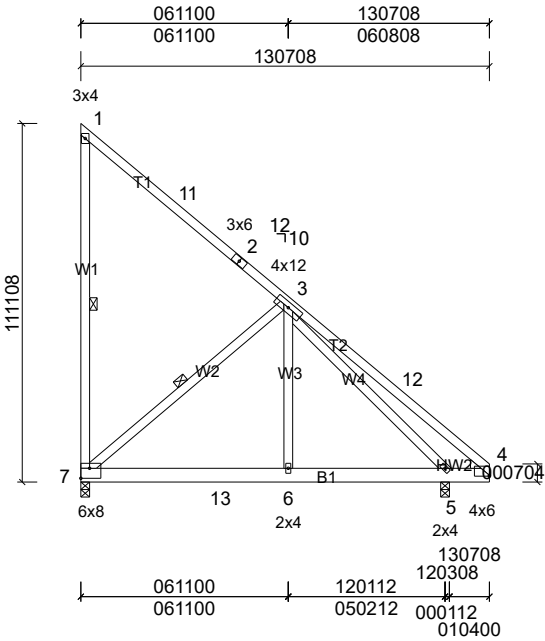
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 4-1-1, Exterior (2) 4-1-1 to 14-9-2, Corner (3) 14-9-2 to 18-9-8, Exterior (2) 18-9-8 to 23-10-14, Corner (3) 23-10-14 to 27-10-4, Exterior (2) 27-10-4 to 38-8-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 41, 34 except (jt=lb) 43=899, 37=387, 42=873, 38=1978, 40=183, 35=1694, 33=222, 32=253, 31=2058, 30=1075.
- Non Standard bearing condition. Review required.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 2 X 4 notch at 20000 o.c. is allowed along the stacked top chord. No notches allowed in overhang and 0 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
4492414 3-18-25	T47	Roof Special	4	1	Job Reference (optional)



Scale = 1:69.1

Plate Offsets (X, Y): [4:Edge,000006], [7:Edge,000400]

Loading	(psf)	Spacing	020000	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.02	6-7	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.04	6-7	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.00	5	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.00	5-6	>999	240	Weight: 107 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.3

WEDGE Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 1-7, 3-7

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

REACTIONS (lb/size) 5=595/000308, (min. 000108), 7=483/000308, (min. 000108)

Max Horiz 7=-780 (LC 13)

Max Uplift 7=-645 (LC 13)

Max Grav 5=595 (LC 1), 7=672 (LC 20)

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

TOP CHORD 1-7=-317/293

BOT CHORD 7-13=-29/423, 6-13=-29/423, 5-6=-30/422

WEBS 3-7=-761/588, 3-6=0/273, 3-5=-505/17

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 13-7-8 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 030600 tall by 020000 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 645 lb uplift at joint 7.