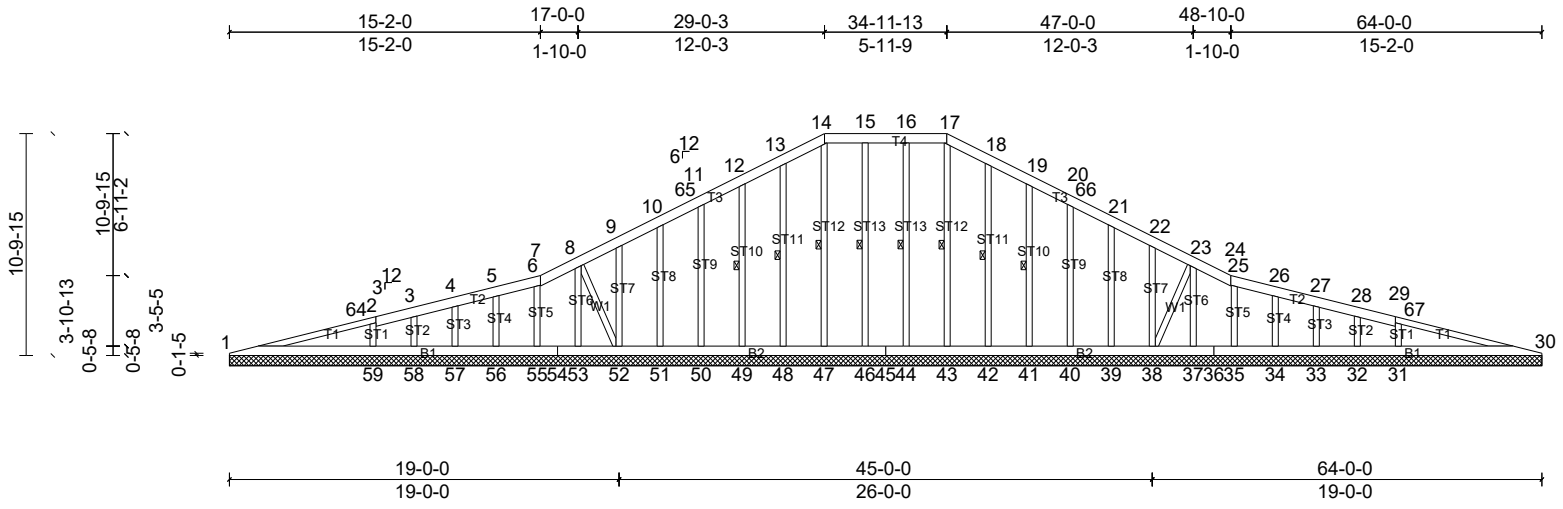
Job	Truss	Truss Type	Qty	Ply	
24061913	A1	Piggyback Base Supported Gable	1	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.02	31	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 510 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2 *Except* 1-2,29-30:2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 8-11-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 14-17.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 15-46, 16-44, 14-47, 13-48, 12-49, 17-43, 18-42, 19-41

REACTIONS All bearings 64-0-0.

(lb) - Max Horiz 1=-364 (LC 11)

Max Uplift All uplift 100 (lb) or less at joint(s) 37, 44, 53 except 1=-135 (LC 6), 30=-126 (LC 7), 31=-497 (LC 7), 32=-148 (LC 22), 33=-169 (LC 7), 34=-119 (LC 7), 35=-115 (LC 11), 38=-299 (LC 11), 39=-156 (LC 11), 40=-151 (LC 11), 41=-163 (LC 11), 42=-127 (LC 11), 46=-102 (LC 7), 48=-136 (LC 10), 49=-160 (LC 10), 50=-151 (LC 10), 51=-156 (LC 10), 52=-284 (LC 10), 55=-102 (LC 6), 56=-119 (LC 6), 57=-169 (LC 10), 58=-148 (LC 21), 59=-505 (LC 10)

Max Grav All reactions 250 (lb) or less at joint (s) 1, 30, 32, 33, 34, 35, 37, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 49, 50, 51, 52, 53, 55, 56, 57, 58 except 31=668 (LC 22), 59=668 (LC 21)

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

TOP CHORD	1-64=-407/299, 2-64=-396/221, 2-3=-277/192, 3-4=-265/207, 7-8=-138/264, 8-9=-125/269, 9-10=-68/315, 10-65=-61/361, 11-65=-45/366, 11-12=-95/417, 12-13=-131/558, 13-14=-163/700, 14-15=-154/700, 15-16=-154/700, 16-17=-154/700, 17-18=-163/700, 18-19=-131/558, 19-20=-95/393, 20-66=-45/258, 29-67=-321/171, 30-67=-332/157
BOT CHORD	1-59=-301/464, 58-59=-154/406, 57-58=-154/406, 56-57=-154/406, 55-56=-154/406, 54-55=-154/406, 53-54=-154/406, 52-53=-154/406, 51-52=-169/469, 50-51=-169/469, 49-50=-169/469, 48-49=-169/469, 47-48=-169/469, 46-47=-168/469, 45-46=-168/469, 44-45=-168/469, 43-44=-168/469, 42-43=-169/469, 41-42=-169/469, 40-41=-169/469, 39-40=-169/469, 38-39=-169/469, 37-38=-154/406, 36-37=-154/406, 35-36=-154/406, 34-35=-154/406, 33-34=-154/406, 32-33=-154/406, 31-32=-154/406, 30-31=-183/465
WEBS	13-48=-129/290, 12-49=-120/345, 11-50=-120/279, 2-59=-338/596, 18-42=-129/290, 19-41=-120/345, 20-40=-120/279, 29-31=-338/596

NOTES

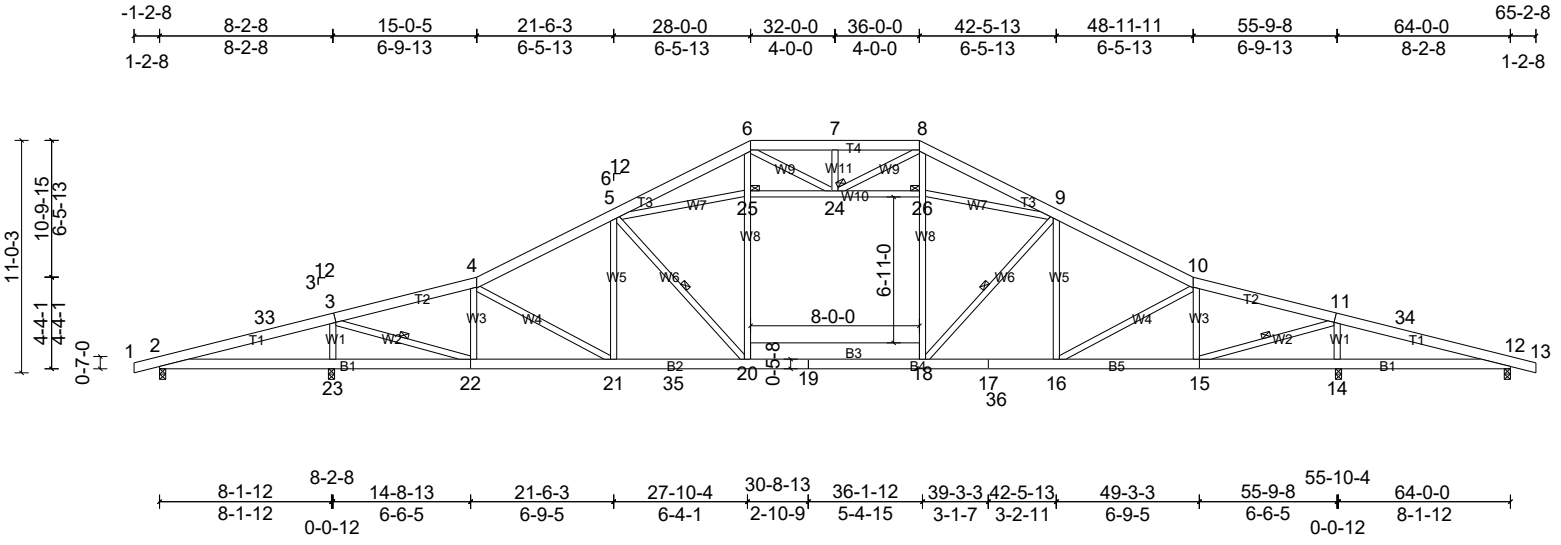
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 6-4-13, Exterior (2) 6-4-13 to 22-7-7, Corner (3) 22-7-7 to 41-4-9, Exterior (2) 41-4-9 to 57-7-3, Corner (3) 57-7-3 to 64-0-0 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.
4) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x5 (||) MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Continued on page 2

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 44, 53, 37 except (jt=lb) 1=135, 30=126, 46=101, 48=136, 49=160, 50=151, 51=155, 52=284, 55=101, 56=119, 57=169, 58=147, 59=505, 42=126, 41=163, 40=151, 39=156, 38=299, 35=115, 34=119, 33=169, 32=147, 31=496.
12) 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.
13) 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	
24061913	A2	Piggyback Base	16	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	0.21	20-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.28	18-20	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.06	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.03	18-20	>999	360	Weight: 525 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 20-18:2x10 SP No.1
WEBS 2x4 SP No.3 *Except* 22-3,15-11:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-13 oc purlins, except 2-0-0 oc purlins (5-11-1 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 5-9-6 oc bracing.
WEBS 1 Row at midpt 3-22, 5-20, 9-18, 11-15
JOINTS 1 Brace at Jt(s): 24, 25, 26
This truss requires both edges of the bottom chord be sheathed in the room area.

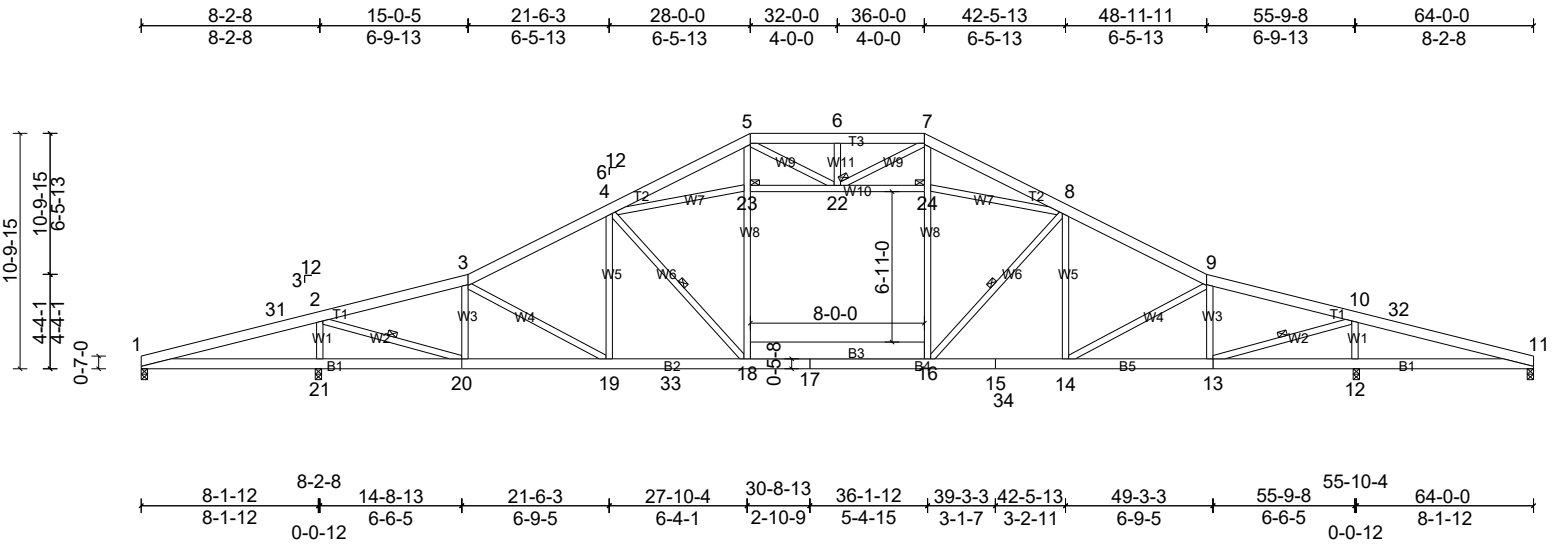
REACTIONS All bearings 0-3-8.
(lb) - Max Horiz 2=363 (LC 14)
Max Uplift All uplift 100 (lb) or less at joint(s) except 2=-438 (LC 6), 12=-432 (LC 7), 14=-1351 (LC 11), 23=-1410 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s) 2, 12 except 14=2598 (LC 1), 23=2598 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-33=-576/810, 3-33=-560/861, 3-4=-2463/1838, 4-5=-2840/2293, 5-6=-1706/1480, 6-7=-1538/1605, 7-8=-1538/1605, 8-9=-1706/1480, 9-10=-2840/2293, 10-11=-2463/1838, 11-34=-402/861, 12-34=-419/802
BOT CHORD 2-23=-779/518, 22-23=-685/447, 21-22=-1565/2405, 21-35=-1646/2497, 20-35=-1646/2497, 19-20=-1526/2380, 18-19=-1526/2380, 17-18=-1646/2497, 17-36=-1646/2497, 16-36=-1646/2497, 15-16=-1565/2405, 14-15=-685/447, 12-14=-779/518
WEBS 3-23=-2333/1738, 3-22=-2058/3188, 4-22=-973/855, 5-21=-28/274, 5-20=-403/577, 20-25=-296/594, 6-25=-251/502, 18-26=-296/594, 8-26=-264/502, 9-18=-403/598, 9-16=-62/274, 10-15=-973/855, 11-15=-2058/3188, 11-14=-2333/1738, 24-25=-1049/899, 24-26=-1049/899, 6-24=-449/509, 7-24=-224/274, 8-24=-449/509, 5-25=-1047/898, 9-26=-1047/898

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-2-8 to 5-2-5, Interior (1) 5-2-5 to 21-7-3, Exterior (2) 21-7-3 to 42-3-9, Interior (1) 42-3-9 to 58-9-11, Exterior (2) 58-9-11 to 65-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 5x8 (=) MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Bottom chord live load (20.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 437 lb uplift at joint 2, 1410 lb uplift at joint 23, 1351 lb uplift at joint 14 and 431 lb uplift at joint 12.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
24061913	A3	Piggyback Base	2	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	0.21	18-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.28	16-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.06	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.03	16-18	>999	360	Weight: 519 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 18-16:2x10 SP No.1
WEBS 2x4 SP No.3 *Except* 20-2,13-10:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-10 oc purlins, except 2-0-0 oc purlins (5-11-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 5-8-10 oc bracing.
WEBS 1 Row at midpt 2-20, 4-18, 8-16, 10-13
JOINTS 1 Brace at Jt(s): 22, 23, 24
This truss requires both edges of the bottom chord be sheathed in the room area.

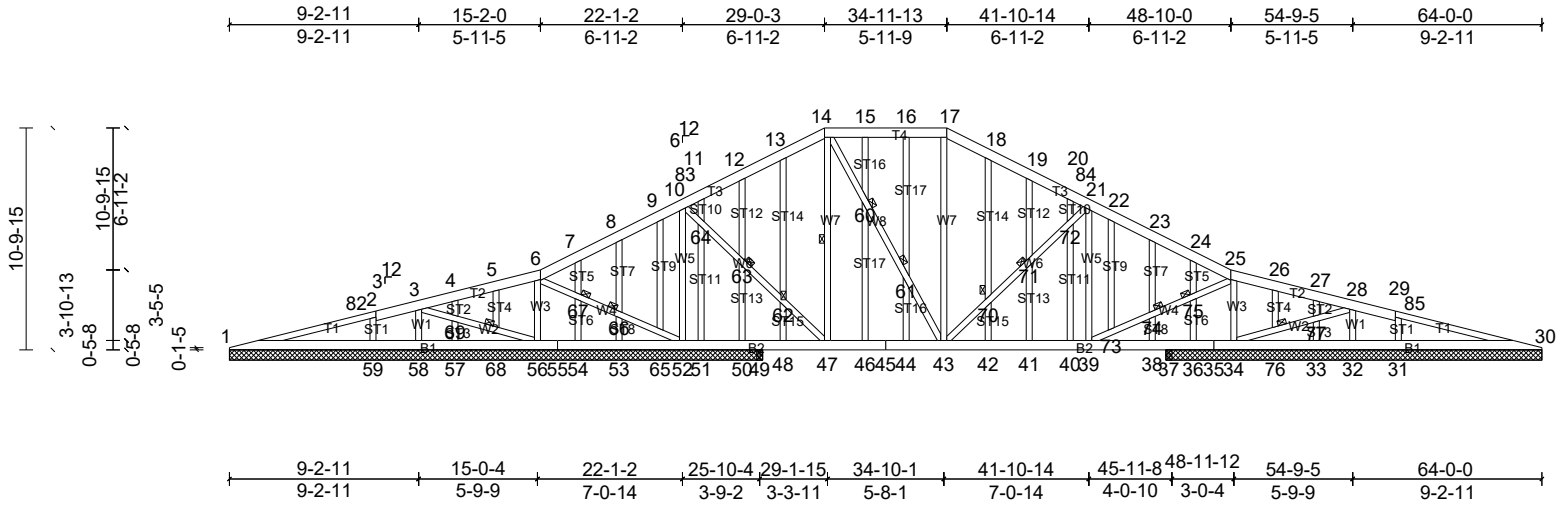
REACTIONS All bearings 0-3-8.
(lb) - Max Horiz 1=-352 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) except 1=-314 (LC 6), 11=-305 (LC 7), 12=-1356 (LC 11), 21=-1413 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s) 1, 11 except 12=2596 (LC 1), 21=2596 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-31=-555/788, 2-31=-539/815, 2-3=-2480/1833, 3-4=-2851/2291, 4-5=-1710/1479, 5-6=-1542/1604, 6-7=-1542/1604, 7-8=-1710/1479, 8-9=-2851/2291, 9-10=-2480/1833, 10-32=-380/815, 11-32=-395/762
BOT CHORD 1-21=-733/453, 20-21=-733/453, 19-20=-1594/2422, 19-33=-1679/2506, 18-33=-1679/2506, 17-18=-1559/2387, 16-17=-1559/2387, 15-16=-1679/2506, 15-34=-1679/2506, 14-34=-1679/2506, 13-14=-1594/2422, 12-13=-733/453, 11-12=-733/453
WEBS 2-21=-2325/1760, 2-20=-2090/3248, 3-20=-972/856, 4-19=-30/277, 4-18=-406/577, 18-23=-296/596, 5-23=-252/504, 16-24=-296/596, 7-24=-264/504, 8-16=-406/598, 8-14=-62/277, 9-13=-972/856, 10-13=-2090/3248, 10-12=-2325/1760, 22-23=-1052/898, 22-24=-1052/898, 5-22=-449/510, 6-22=-224/274, 7-22=-449/510, 4-23=-1051/897, 8-24=-1051/897

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 6-4-13, Interior (1) 6-4-13 to 21-7-3, Exterior (2) 21-7-3 to 42-3-9, Interior (1) 42-3-9 to 57-7-3, Exterior (2) 57-7-3 to 64-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 5x8 (=) MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Bottom chord live load (20.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 16-18
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 314 lb uplift at joint 1, 304 lb uplift at joint 11, 1413 lb uplift at joint 21 and 1356 lb uplift at joint 12.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
24061913	A4	Piggyback Base Structural Gable	1	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	0.07	41-42	>999	240	MT20	244/190
TCDL	18.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.08	41-42	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.02	30	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 593 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* 1-2,29-30:2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 14-17.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing:
46-47,44-46,43-44,42-43,41-42,40-41,39-40.
WEBS 1 Row at midpt 14-47
JOINTS 1 Brace at Jt(s): 60, 61, 62, 63, 66, 67, 68, 70, 71, 74, 75, 76

REACTIONS All bearings 26-0-0. except 30=18-4-0, 34=18-4-0, 32=18-4-0, 36=18-4-0, 33=18-4-0, 31=18-4-0, 49=0-3-8, 37=0-3-8
(lb) - Max Horiz 1=364 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) except 1=-138 (LC 6), 30=-127 (LC 7), 31=-488 (LC 7), 32=-167 (LC 1), 33=-284 (LC 11), 34=-471 (LC 11), 36=-155 (LC 1), 37=-242 (LC 11), 49=-227 (LC 10), 50=-142 (LC 22), 51=-130 (LC 10), 52=-217 (LC 10), 53=-211 (LC 10), 54=-131 (LC 10), 56=-101 (LC 6), 57=-281 (LC 6), 58=-125 (LC 1), 59=-501 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s) 1, 30, 32, 36, 50, 54, 58 except 31=780 (LC 22), 33=458 (LC 1), 34=1093 (LC 1), 37=498 (LC 1), 49=473 (LC 1), 51=325 (LC 1), 52=702 (LC 1), 53=348 (LC 1), 56=260 (LC 21), 57=438 (LC 21), 59=782 (LC 21)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-82=-355/314, 2-82=-344/359, 2-3=-223/298, 8-9=-92/265, 9-10=-89/287, 10-83=-494/396, 11-83=-466/398, 11-12=-589/492, 12-13=-595/596, 13-14=-643/697, 14-15=-760/801, 15-16=-760/801, 16-17=-760/801, 17-18=-802/808, 18-19=-806/743, 19-20=-844/673, 20-84=-839/640, 21-84=-857/636, 21-22=-821/660, 22-23=-923/673, 23-24=-889/586, 24-25=-869/514, 29-85=-167/303, 30-85=-178/253
BOT CHORD 1-59=-335/399, 58-59=-207/259, 57-58=-207/259, 56-57=-207/259, 55-56=-96/306, 54-55=-96/306, 53-54=-96/306, 52-53=-96/306, 51-52=-138/413, 50-51=-138/413, 49-50=-138/413, 48-49=-138/413, 47-48=-138/413, 46-47=0/595, 45-46=0/595, 44-45=0/595, 43-44=0/595, 42-43=-168/768, 41-42=-168/768, 40-41=-168/768, 39-40=-168/768, 30-31=-260/262
WEBS 10-52=-628/291, 10-64=-246/696, 63-64=-243/689, 62-63=-243/687, 47-62=-249/704, 14-47=-281/104, 14-60=-283/447, 60-61=-295/468, 43-61=-298/467, 43-70=-166/316, 70-71=-167/312, 71-72=-149/297, 21-72=-165/316, 39-73=-447/943, 73-74=-427/909, 74-75=-421/895, 25-75=-448/951, 25-34=-1023/560, 11-64=-281/186, 51-64=-271/181, 53-66=-289/245, 4-69=-299/267, 57-69=-316/294, 2-59=-424/369, 38-74=-262/217, 27-77=-309/268, 33-77=-341/299, 29-31=-424/365

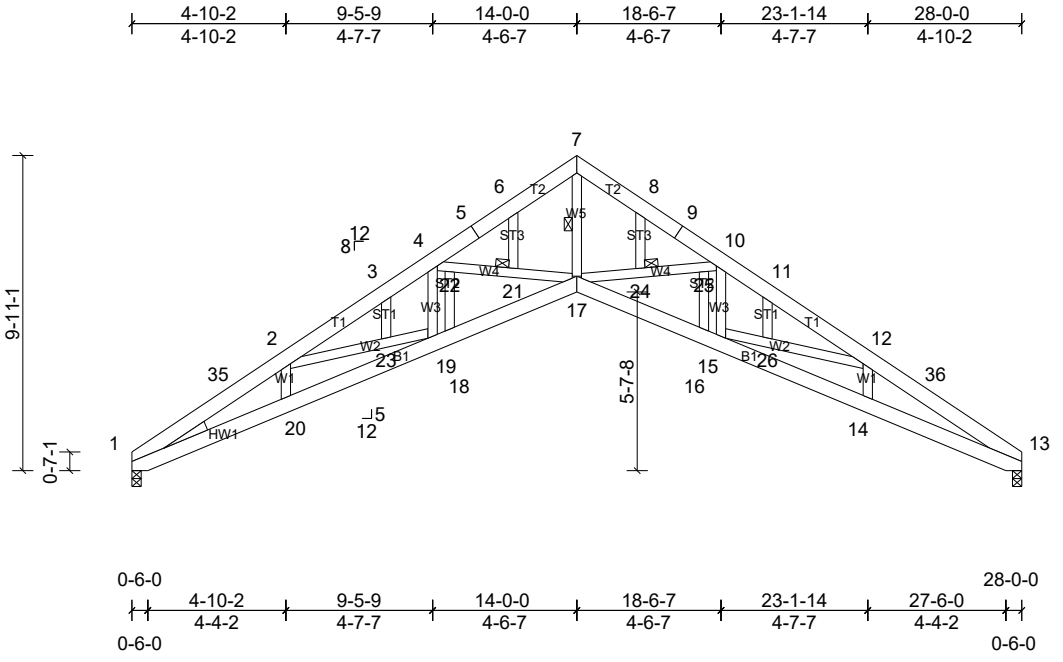
NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 6-4-13, Interior (1) 6-4-13 to 22-7-7, Exterior (2) 22-7-7 to 41-4-9, Interior (1) 41-4-9 to 57-7-3, Exterior (2) 57-7-3 to 64-0-0 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.
4) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x5 (||) MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.

Continued on page 2

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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 1, 127 lb uplift at joint 30, 125 lb uplift at joint 58, 101 lb uplift at joint 56, 217 lb uplift at joint 52, 470 lb uplift at joint 34, 167 lb uplift at joint 32, 142 lb uplift at joint 50, 130 lb uplift at joint 51, 210 lb uplift at joint 53, 131 lb uplift at joint 54, 280 lb uplift at joint 57, 501 lb uplift at joint 59, 154 lb uplift at joint 36, 284 lb uplift at joint 33, 488 lb uplift at joint 31, 227 lb uplift at joint 49 and 242 lb uplift at joint 37.
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) 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	
24061913	B1	Scissor Structural Gable	1	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	0.61	16-17	>548	240	MT20	244/190
TCDL	18.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	0.50	16-17	>674	180	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	-0.65	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 209 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2 *Except* 1-5,9-13:2x6 SP No.1
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 17-7,4-17,10-17:2x4 SP No.2
OTHERS	2x4 SP No.3
WEDGE	Left: 2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-8-15 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 2-7-6 oc bracing.
WEBS	1 Row at midpt 7-17
JOINTS	1 Brace at Jt(s): 21, 24

REACTIONS (lb/size) 1=1333/0-3-8, (min. 0-1-8), 13=1333/0-3-8, (min. 0-1-8)
Max Horiz 1=470 (LC 7)
Max Uplift 1=-593 (LC 10), 13=-593 (LC 11)

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

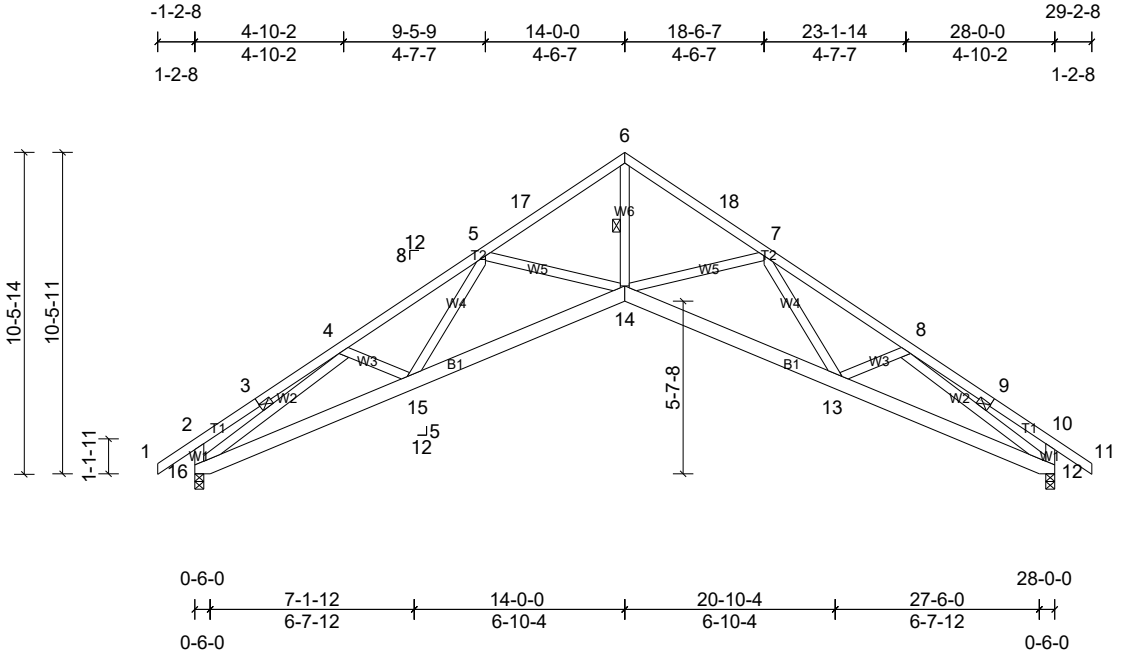
TOP CHORD	1-35=-4095/7324, 2-35=-4061/7335, 2-3=-3822/6456, 3-4=-3786/6562, 4-5=-3051/4627, 5-6=-2964/4633, 6-7=-2950/4654, 7-8=-2951/4655, 8-9=-2964/4636, 9-10=-3052/4629, 10-11=-3790/6566, 11-12=-3827/6462, 12-36=-3992/7238, 13-36=-4048/7215
BOT CHORD	1-20=-6095/3496, 19-20=-5941/3583, 18-19=-4810/3379, 17-18=-4854/3429, 16-17=-4867/3437, 15-16=-4819/3384, 14-15=-5850/3534, 13-14=-6002/3431
WEBS	7-17=-4825/2938, 4-22=-966/1835, 21-22=-942/1833, 17-21=-949/1838, 2-20=-363/104, 2-23=-365/760, 19-23=-358/748, 4-19=-1275/344, 17-24=-957/1850, 24-25=-950/1846, 10-25=-976/1849, 10-15=-1262/347, 15-26=-300/645, 12-26=-306/656, 12-14=-342/117

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 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 11-0-0, Exterior (2) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 24-10-4, Exterior (2) 24-10-4 to 27-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch 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.
4) All plates are MT20 plates unless otherwise indicated.
5) Gable studs spaced at 2-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Bearing at joint(s) 13, 1 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 593 lb uplift at joint 13 and 593 lb uplift at joint 1.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
24061913	B2	Scissor	6	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	0.51	14-15	>654	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	0.41	14-15	>801	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(CT)	-0.45	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 186 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1 *Except* 1-3,9-11:2x4 SP No.2
BOT CHORD 2x6 SP SS
WEBS 2x4 SP No.3 *Except* 16-2,16-4,12-10,12-8:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-11-7 oc bracing.
WEBS 1 Row at midpt 6-14, 4-16, 8-12

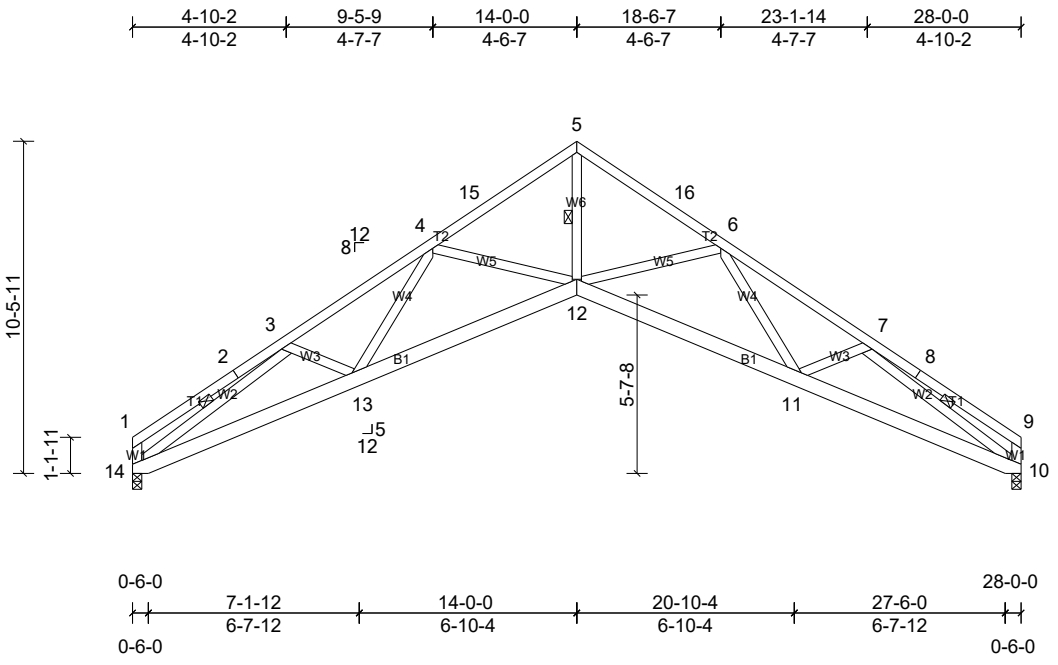
REACTIONS (lb/size) 12=1190/0-3-8, (min. 0-1-8), 16=1190/0-3-8, (min. 0-1-8)
Max Horiz 16=588 (LC 9)
Max Uplift 12=-665 (LC 11), 16=-665 (LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-565/968, 3-4=-538/993, 4-5=-2662/5599, 5-17=-2179/3843, 6-17=-2143/3870, 6-18=-2143/3870, 7-18=-2179/3843, 7-8=-2662/5599, 8-9=-538/993, 9-10=-565/968, 2-16=-452/861, 10-12=-452/861
BOT CHORD 15-16=-3971/2225, 14-15=-3257/2268, 13-14=-3257/2268, 12-13=-3971/2225
WEBS 6-14=-4022/2081, 4-16=-2291/4426, 8-12=-2291/4426, 4-15=-393/259, 5-15=-1168/182, 5-14=-616/1125, 7-14=-616/1125, 7-13=-1168/182, 8-13=-394/309

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-2-8 to 1-9-8, Interior (1) 1-9-8 to 11-0-0, Exterior (2) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 26-2-8, Exterior (2) 26-2-8 to 29-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed; porch 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 16, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 665 lb uplift at joint 16 and 665 lb uplift at joint 12.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
24061913	B3	Scissor	4	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	0.53	12-13	>628	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	0.43	12-13	>764	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(CT)	-0.48	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 182 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1 *Except* 1-2,8-9:2x4 SP No.2
BOT CHORD 2x6 SP SS
WEBS 2x4 SP No.3 *Except* 14-1,14-3,10-9,10-7:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-9-13 oc bracing.
WEBS 1 Row at midpt 5-12, 3-14, 7-10

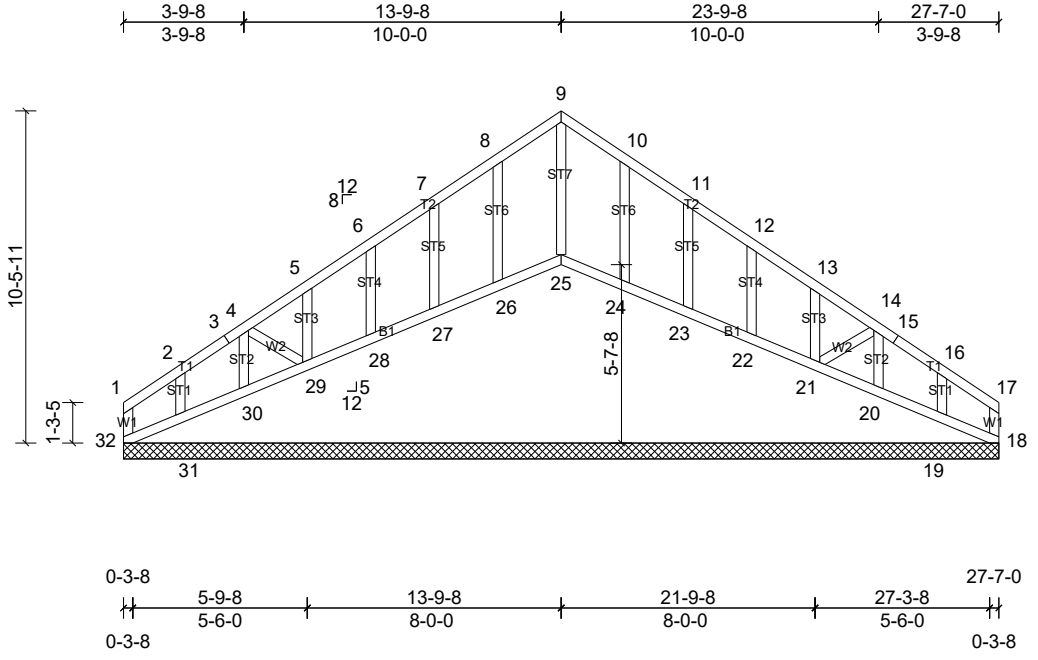
REACTIONS (lb/size) 10=1108/0-3-8, (min. 0-1-8), 14=1108/0-3-8, (min. 0-1-8)
Max Horiz 14=542 (LC 9)
Max Uplift 10=-588 (LC 11), 14=-588 (LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-456/880, 2-3=-421/894, 3-4=-2609/5774, 4-15=-2194/4025, 5-15=-2112/4044, 5-16=-2112/4044, 6-16=-2194/4025, 6-7=-2609/5774, 7-8=-421/894, 8-9=-456/880, 1-14=-420/646, 9-10=-420/646
BOT CHORD 13-14=-4237/2188, 12-13=-3505/2284, 11-12=-3505/2284, 10-11=-4237/2188
WEBS 5-12=-4210/2095, 3-14=-2360/4713, 7-10=-2360/4713, 3-13=-377/267, 4-13=-1178/189, 4-12=-620/1113, 6-12=-620/1113, 6-11=-1178/189, 7-11=-377/310

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 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 11-0-0, Exterior (2) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 24-10-4, Exterior (2) 24-10-4 to 27-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 14, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 588 lb uplift at joint 14 and 588 lb uplift at joint 10.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
24061913	B4	Scissor Supported Gable	2	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.02	18	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 156 lb	FT = 20%

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

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

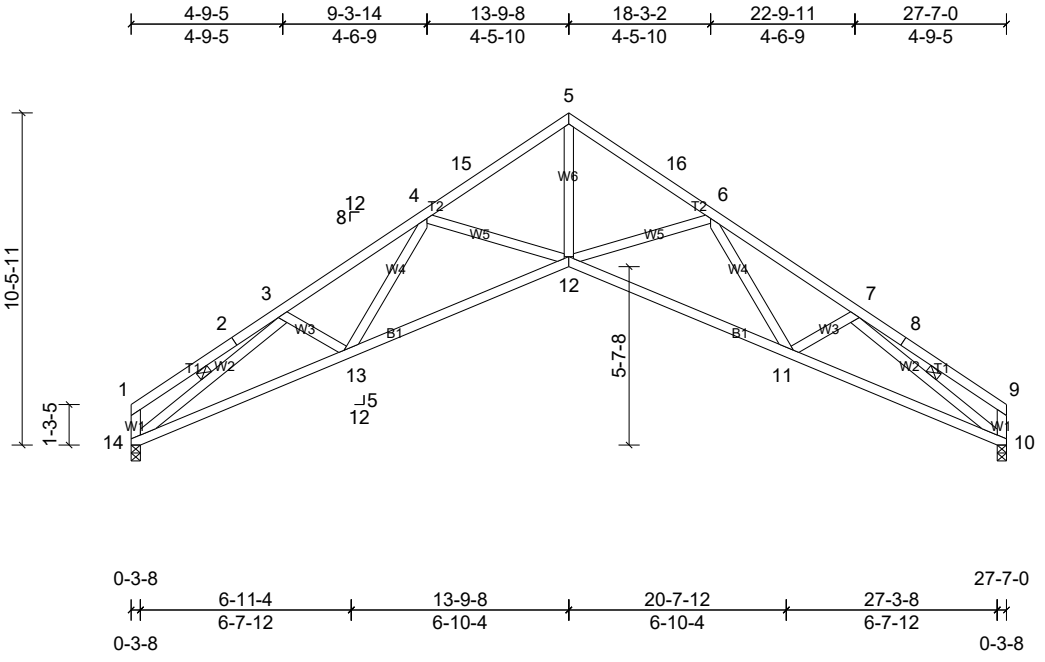
REACTIONS All bearings 27-7-0.
(lb) - Max Horiz 32=545 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 18, 20 except 19=-185 (LC 11), 21=-499 (LC 11), 22=-185 (LC 11), 23=-185 (LC 11), 24=-182 (LC 11), 25=-233 (LC 9), 26=-184 (LC 10), 27=-184 (LC 10), 28=-186 (LC 10), 29=-550 (LC 10), 30=-220 (LC 8), 31=-197 (LC 10), 32=-223 (LC 6)
Max Grav All reactions 250 (lb) or less at joint (s) 18, 19, 20, 22, 23, 24, 26, 27, 28, 31 except 21=348 (LC 9), 25=629 (LC 11), 29=466 (LC 8), 30=365 (LC 7), 32=261 (LC 9)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-290/275, 5-6=-257/262, 6-7=-220/280, 7-8=-303/356, 8-9=-403/474, 9-10=-403/474, 10-11=-303/356
BOT CHORD 31-32=-549/546, 30-31=-542/539, 29-30=-545/540, 28-29=-296/351, 27-28=-296/351, 26-27=-296/351, 25-26=-296/350, 24-25=-296/350, 23-24=-296/351, 22-23=-296/351, 21-22=-296/351
WEBS 9-25=-391/273, 4-30=-336/255, 4-29=-356/434, 14-21=-269/374

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-4-4 to 3-4-4, Exterior (2) 3-4-4 to 11-0-0, Corner (3) 11-0-0 to 17-0-0, Exterior (2) 17-0-0 to 24-7-12, Corner (3) 24-7-12 to 27-7-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only.
4) All plates are 2x3 (||) 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 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 18, 20 except (jt=lb) 32=222, 25=232, 26=184, 27=183, 28=185, 29=550, 30=219, 31=197, 24=181, 23=184, 22=184, 21=498, 19=184.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 25, 26, 27, 28, 29, 30, 31, 24, 23, 22, 21, 20, 19.
12) 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
24061913	B5	Scissor	23	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	0.29	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.40	12-13	>816	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.40	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 156 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-1-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-0 oc bracing.
WEBS 1 Row at midpt 3-14, 7-10

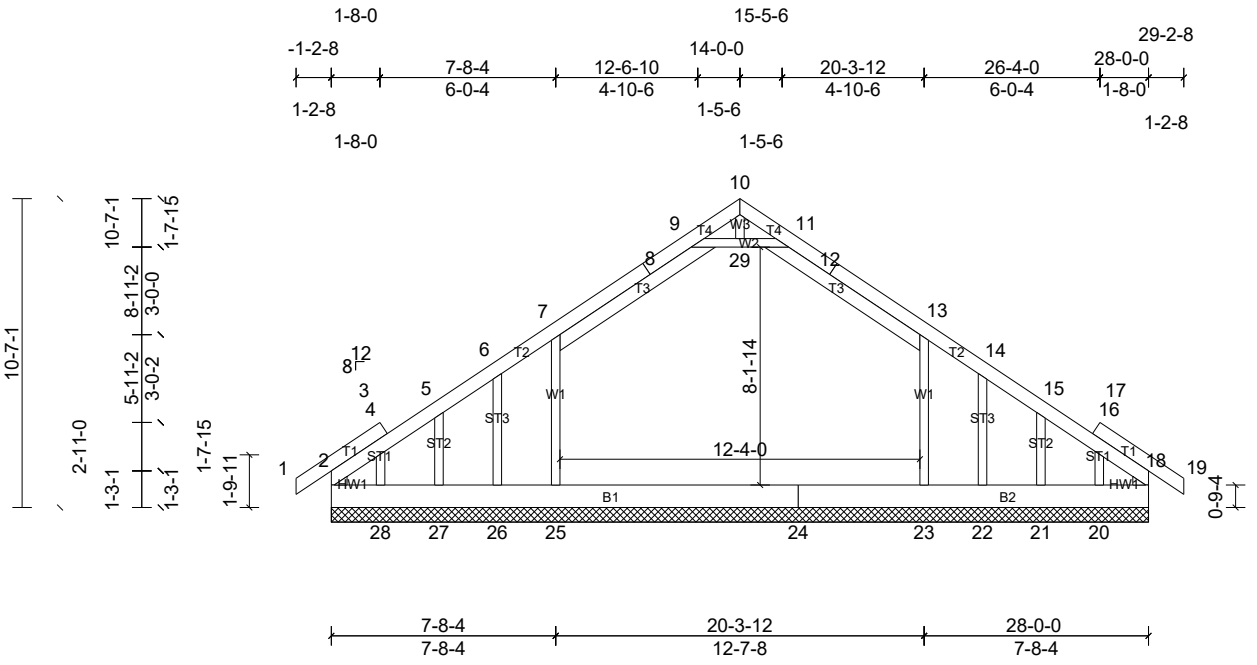
REACTIONS (lb/size) 10=1092/0-3-8, (min. 0-1-8), 14=1092/0-3-8, (min. 0-1-8)
Max Horiz 14=545 (LC 9)
Max Uplift 10=-578 (LC 11), 14=-578 (LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-394/262, 2-3=-360/278, 3-4=-3058/1484, 4-15=-2407/993, 5-15=-2380/1019, 5-16=-2380/1068, 6-16=-2407/1041, 6-7=-3058/1233, 7-8=-360/278, 8-9=-394/262, 1-14=-387/277, 9-10=-387/277
BOT CHORD 13-14=-1439/2584, 12-13=-1170/2600, 11-12=-781/2273, 10-11=-965/2387
WEBS 5-12=-939/2306, 3-14=-2747/1320, 7-10=-2747/1063, 4-12=-679/607, 6-12=-679/643, 6-11=-223/313, 7-11=-72/275

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-4-4 to 3-4-4, Interior (1) 3-4-4 to 11-0-0, Exterior (2) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 24-7-12, Exterior (2) 24-7-12 to 27-7-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 14, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 578 lb uplift at joint 14 and 578 lb uplift at joint 10.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
24061913	C1	Attic Supported Gable	1	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 282 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x10 SP No.1
WEBS	2x4 SP No.2 *Except* 10-29:2x4 SP No.3
OTHERS	2x4 SP No.3
WEDGE	Left: 2x4 SP No.2 Right: 2x4 SP No.2

BRACING

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

REACTIONS All bearings 28-0-0.

(lb) - Max Horiz 2=488 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 18 except 20=-286 (LC 11), 21=-138 (LC 11), 22=-532 (LC 16), 23=-219 (LC 11), 25=-232 (LC 10), 26=-532 (LC 16), 27=-134 (LC 10), 28=-196 (LC 11)

Max Grav All reactions 250 (lb) or less at joint (s) 20, 22, 26, 28 except 2=503 (LC 1), 18=548 (LC 18), 21=347 (LC 19), 23=1130 (LC 19), 25=1144 (LC 18), 27=342 (LC 18)

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

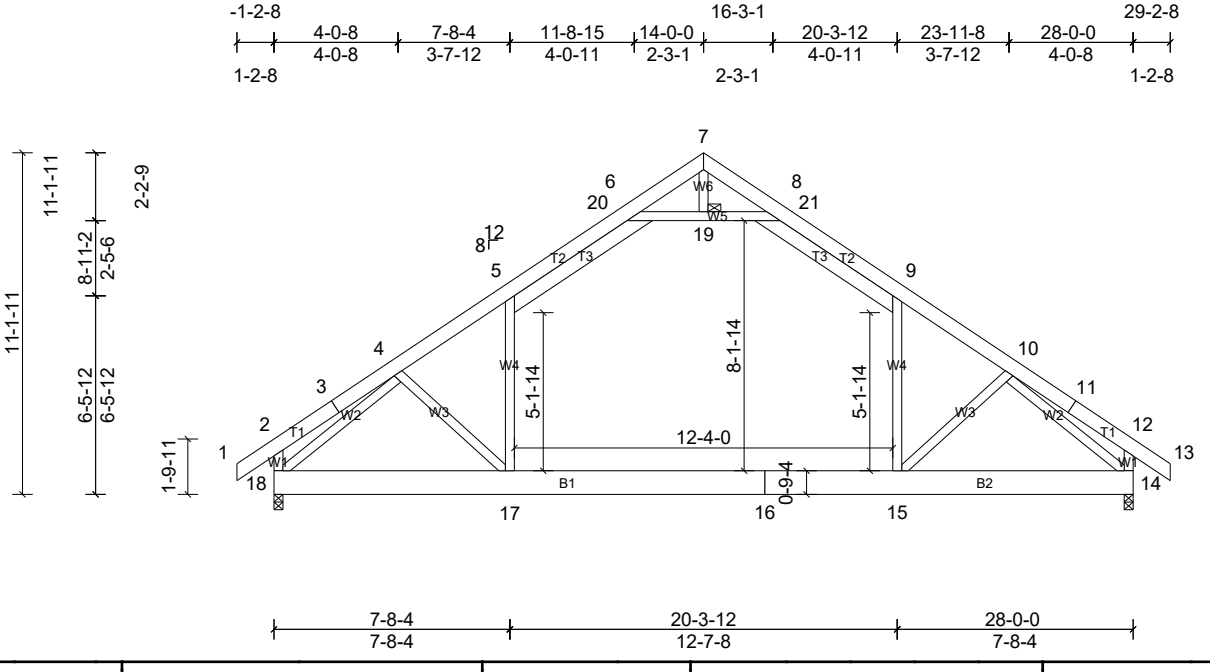
TOP CHORD	2-3=-600/147, 3-4=-461/115, 4-5=-591/146, 5-6=-592/203, 6-7=-551/277, 7-8=-679/408, 8-9=-611/413, 11-12=-611/413, 12-13=-679/408, 13-14=-529/263, 14-15=-581/193, 15-16=-579/131, 16-17=-452/104, 17-18=-591/134
BOT CHORD	2-28=-112/553, 27-28=-109/517, 26-27=-109/517, 25-26=-109/517, 24-25=-109/517, 23-24=-109/517, 22-23=-109/517, 21-22=-109/517, 20-21=-109/517, 18-20=-123/561
WEBS	13-23=-463/397, 7-25=-463/410, 9-29=-583/479, 11-29=-583/479

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-2-8 to 1-8-4, Exterior (2) 1-8-4 to 11-0-0, Corner (3) 11-0-0 to 17-0-0, Exterior (2) 17-0-0 to 26-2-8, Corner (3) 26-2-8 to 29-2-8 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
3) Truss designed for wind loads in the plane of the truss only.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Ceiling dead load (5.0 psf) on member(s). 9-29, 11-29, 7-9, 11-13
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 18 except (jt=lb) 23=219, 25=231, 26=531, 27=133, 28=195, 22=531, 21=138, 20=286.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 18.
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) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
24061913	C2	Attic	1	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.33	15-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.47	15-17	>703	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.02	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.17	15-17	>887	360	Weight: 279 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* 3-7,7-11:2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x4 SP No.3 *Except* 9-15,5-17,6-8:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 19

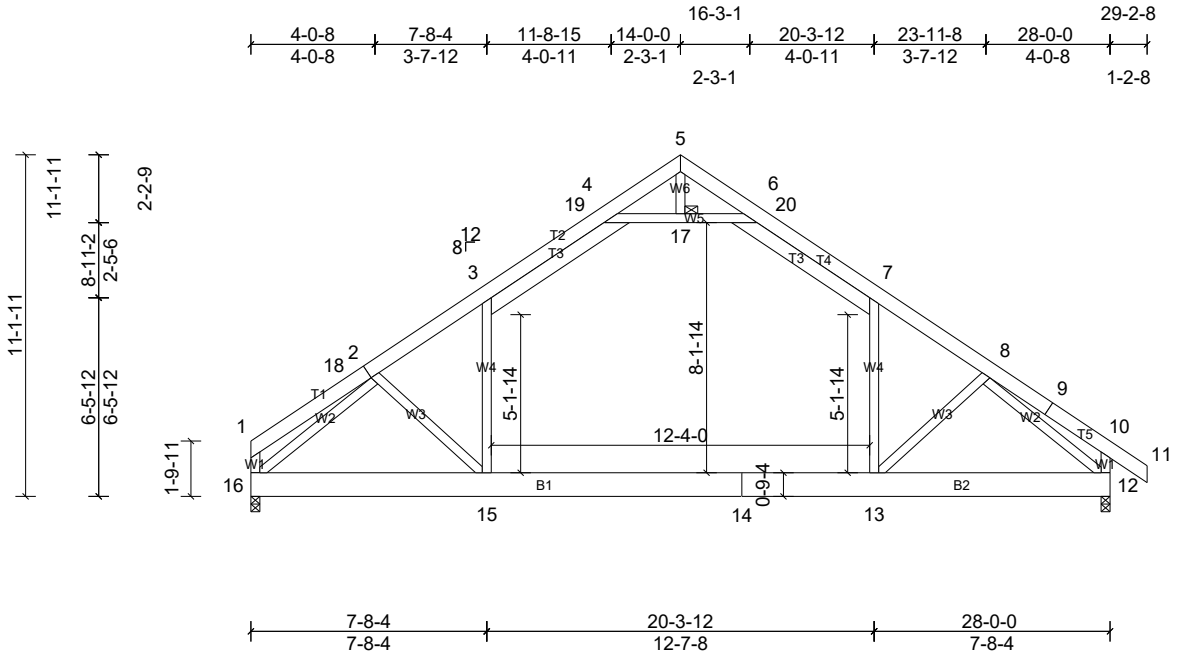
REACTIONS (lb/size) 14=1253/0-3-8, (min. 0-1-14), 18=1253/0-3-8, (min. 0-1-14)
Max Horiz 18=-609 (LC 8)
Max Uplift 14=-624 (LC 11), 18=-624 (LC 10)
Max Grav 14=1586 (LC 19), 18=1586 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-250/262, 3-4=-213/284, 4-5=-1904/687, 5-20=-1444/690, 6-20=-1389/695, 6-7=-157/515, 7-8=-158/515, 8-21=-1389/695, 9-21=-1444/690, 9-10=-1902/686, 10-11=-213/284, 11-12=-250/262, 2-18=-270/394, 12-14=-269/394
BOT CHORD 17-18=-607/1753, 16-17=-284/1513, 15-16=-284/1513, 14-15=-374/1478
WEBS 9-15=-80/851, 5-17=-81/851, 6-19=-2028/941, 8-19=-2028/941, 4-18=-1955/547, 10-14=-1954/546, 4-17=-377/451, 10-15=-377/452

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-2-8 to 1-9-8, Interior (1) 1-9-8 to 11-0-0, Exterior (2) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 26-2-8, Exterior (2) 26-2-8 to 29-2-8 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
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Ceiling dead load (5.0 psf) on member(s). 5-6, 8-9, 6-19, 8-19
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 15-17
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 624 lb uplift at joint 18 and 624 lb uplift at joint 14.
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) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
24061913	C3	Attic	8	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.31	13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.45	13-15	>741	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.17	13-15	>906	360	Weight: 276 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* 2-5,5-9:2x6 SP SS
BOT CHORD 2x10 SP No.1
WEBS 2x4 SP No.3 *Except* 7-13,3-15,4-6:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-11-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 17

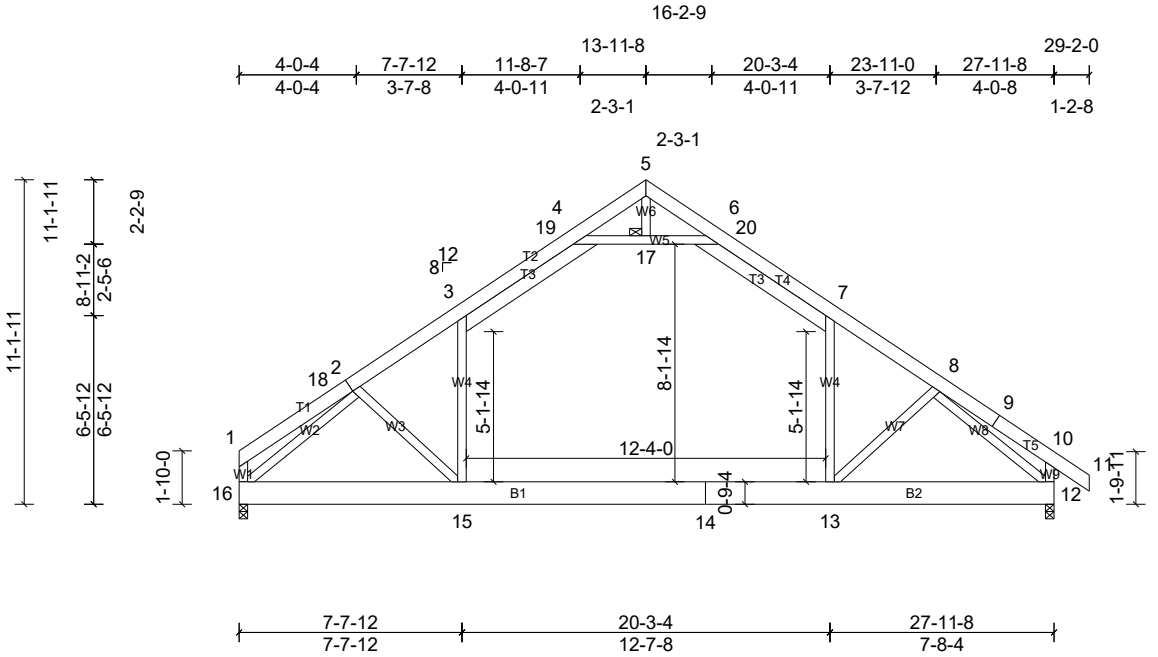
REACTIONS (lb/size) 12=1255/0-3-8, (min. 0-1-14), 16=1169/0-3-8, (min. 0-1-12)
Max Horiz 16=-593 (LC 6)
Max Uplift 12=-624 (LC 11), 16=-548 (LC 10)
Max Grav 12=1588 (LC 19), 16=1499 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-262/197, 2-3=-1905/688, 3-19=-1449/695, 4-19=-1393/699, 4-5=-159/519, 5-6=-158/519, 6-20=-1391/700, 7-20=-1447/696, 7-8=-1907/687, 8-9=-215/285, 9-10=-252/263, 10-12=-271/395
BOT CHORD 15-16=-615/1760, 14-15=-286/1520, 13-14=-286/1520, 12-13=-373/1480
WEBS 7-13=-76/855, 3-15=-71/840, 4-17=-2034/948, 6-17=-2034/948, 2-16=-1941/578, 8-12=-1953/543, 2-15=-354/452, 8-13=-375/456

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 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 11-0-0, Exterior (2) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 26-2-8, Exterior (2) 26-2-8 to 29-2-8 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
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-17, 6-17
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-15
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 548 lb uplift at joint 16 and 624 lb uplift at joint 12.
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) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
24061913	C4	Attic	3	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.32	13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.46	13-15	>723	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.17	13-15	>897	360	Weight: 275 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* 2-5:2x6 SP No.1, 5-9:2x6 SP SS
BOT CHORD 2x10 SP No.1
WEBS 2x4 SP No.3 *Except* 7-13,3-15,4-6:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 17

REACTIONS (lb/size) 12=1253/0-3-8, (min. 0-1-14), 16=1168/0-3-8, (min. 0-1-12)
Max Horiz 16=-594 (LC 6)
Max Uplift 12=-623 (LC 11), 16=-546 (LC 10)
Max Grav 12=1586 (LC 19), 16=1498 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-252/195, 2-3=-1898/685, 3-19=-1446/694, 4-19=-1390/698, 4-5=-161/518, 5-6=-154/513, 6-20=-1385/697, 7-20=-1441/693, 7-8=-1905/686, 8-9=-213/284, 9-10=-251/262, 10-12=-270/394
BOT CHORD 15-16=-606/1746, 14-15=-284/1515, 13-14=-284/1515, 12-13=-373/1479
WEBS 7-13=-79/862, 3-15=-72/832, 4-17=-2025/946, 6-17=-2025/946, 2-16=-1943/579, 8-12=-1954/544, 2-15=-345/444, 8-13=-381/459

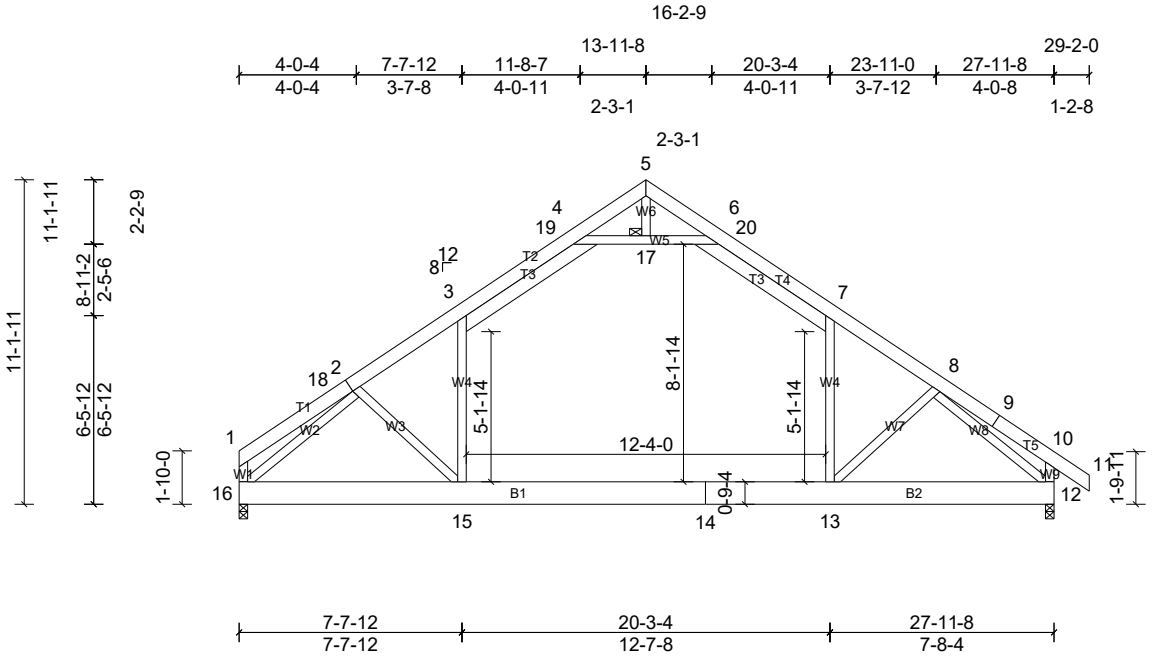
NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-4 to 3-2-4, Interior (1) 3-2-4 to 11-0-0, Exterior (2) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 26-2-8, Exterior (2) 26-2-8 to 29-2-8 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
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-17, 6-17
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-15
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 546 lb uplift at joint 16 and 623 lb uplift at joint 12.
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) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
24061913	C5	Attic	1	**2**	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Kirk Robertson — Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Sep 16 14:17:38 — Page: 1

ID:TxAseCTBurIZ_E646aDhp9z1mG?-5Nw0YniXL8DCDyygIcj5YF72qRMGaVBYXICso3yd2Ex



Loading	(psf)	Spacing	4-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.31	13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.45	13-15	>743	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.17	13-15	>907	360	Weight: 551 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 2-5,5-9:2x6 SP SS
BOT CHORD 2x10 SP No.1
WEBS 2x4 SP No.3 *Except* 7-13,3-15,4-6:2x4 SP No.2

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 5, 17, 1, 10

REACTIONS (lb/size) 12=2506/0-3-8, (min. 0-1-14), 16=2336/0-3-8, (min. 0-1-12)
Max Horiz 16=-1188 (LC 6)
Max Uplift 12=-1246 (LC 11), 16=-1093 (LC 10)
Max Grav 12=3171 (LC 19), 16=2996 (LC 18)

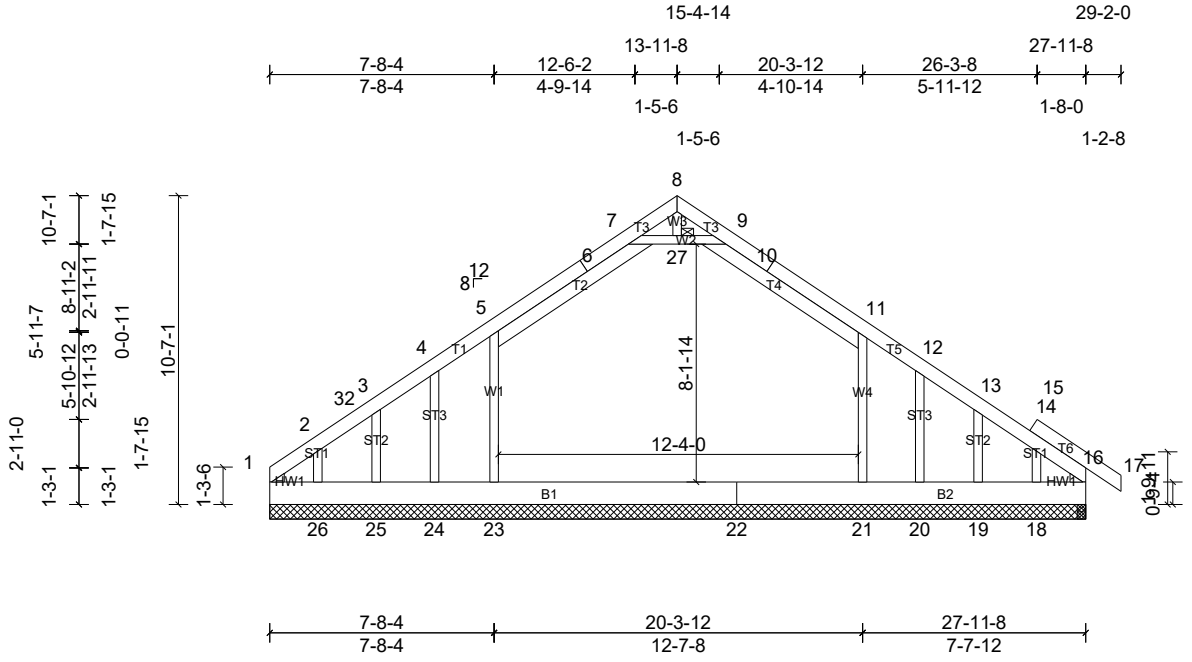
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-508/390, 2-18=-436/398, 2-3=-3800/1374, 3-19=-2891/1388, 4-19=-2779/1396, 4-5=-315/1031, 5-6=-315/1032, 6-20=-2776/1397, 7-20=-2887/1389, 7-8=-3805/1370, 8-9=-430/570, 9-10=-504/525, 1-16=-462/376, 10-12=-543/790
BOT CHORD 15-16=-1216/3495, 14-15=-568/3031, 13-14=-568/3031, 12-13=-742/2953
WEBS 7-13=-149/1707, 3-15=-140/1677, 4-17=-4052/1891, 6-17=-4052/1891, 5-17=-75/309, 2-16=-3883/1156, 8-12=-3896/1081, 2-15=-686/894, 8-13=-752/912

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-4 to 3-2-4, Interior (1) 3-2-4 to 11-0-0, Exterior (2) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 26-2-8, Exterior (2) 26-2-8 to 29-2-8 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
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-17, 6-17
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-15
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1093 lb uplift at joint 16 and 1246 lb uplift at joint 12.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
24061913	C6	Attic Supported Gable	1	**2**	Job Reference (optional)



Loading	(psf)	Spacing	4-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.04	21-23	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.06	21-23	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.01	16	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 547 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP No.1
WEBS 2x4 SP No.2 *Except* 8-27:2x4 SP No.3
OTHERS 2x4 SP No.3
WEDGE Left: 2x4 SP No.2
Right: 2x4 SP No.2

BRACING
TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 8, 27

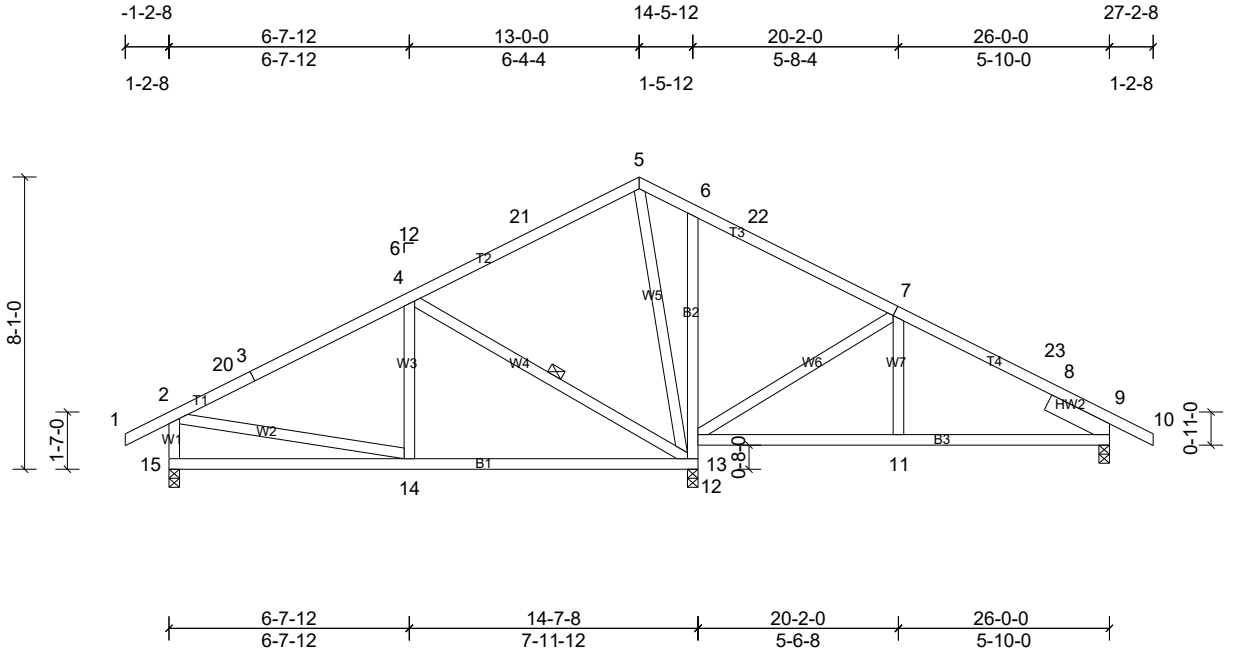
REACTIONS All bearings 27-11-8.
(lb) - Max Horiz 1=-969 (LC 8)
Max Uplift All uplift 100 (lb) or less at joint(s) except 1=-320 (LC 6), 16=-254 (LC 7), 18=-550 (LC 11), 19=-282 (LC 11), 20=-1068 (LC 16), 21=-484 (LC 11), 23=-490 (LC 10), 24=-1025 (LC 16), 25=-263 (LC 10), 26=-665 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s) 20, 24 except 1=1093 (LC 19), 16=987 (LC 18), 18=392 (LC 9), 19=684 (LC 19), 21=2231 (LC 19), 23=2199 (LC 18), 25=697 (LC 18), 26=441 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-9=-324/200, 9-10=-1094/846, 10-11=-1196/847, 11-12=-937/607, 12-13=-1021/474, 13-14=-1022/348, 14-15=-795/275, 15-16=-1049/351, 1-2=-1164/419, 2-32=-1066/354, 3-32=-1002/378, 3-4=-1034/488, 4-5=-962/632, 5-6=-1197/849, 6-7=-1097/849, 7-8=-313/191
BOT CHORD 1-26=-639/917, 25-26=-291/917, 24-25=-291/917, 23-24=-291/917, 22-23=-291/917, 21-22=-291/917, 20-21=-291/917, 19-20=-291/917, 18-19=-291/917, 16-18=-325/996
WEBS 5-23=-852/844, 11-21=-867/843, 7-27=-1083/928, 9-27=-1083/928, 4-24=-320/296, 3-25=-463/423, 2-26=-367/439, 12-20=-298/289, 13-19=-465/395, 15-18=-448/345

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 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 10-11-8, Exterior (2) 10-11-8 to 16-11-8, Interior (1) 16-11-8 to 26-2-0, Exterior (2) 26-2-0 to 29-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5) Truss designed for wind loads in the plane of the truss only.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 489 lb uplift at joint 23, 483 lb uplift at joint 21, 319 lb uplift at joint 1, 254 lb uplift at joint 16, 1025 lb uplift at joint 24, 262 lb uplift at joint 25, 665 lb uplift at joint 26, 1068 lb uplift at joint 20, 281 lb uplift at joint 19 and 550 lb uplift at joint 18.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) 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.
13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
24061913	D1	Roof Special	2	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.09	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.19	13-14	>912	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 157 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 13-6:2x4 SP No.3
WEBS 2x4 SP No.3
SLIDER Right 2x6 SP No.2 -- 1-11-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-2-0 oc bracing.
WEBS 1 Row at midpt 4-13

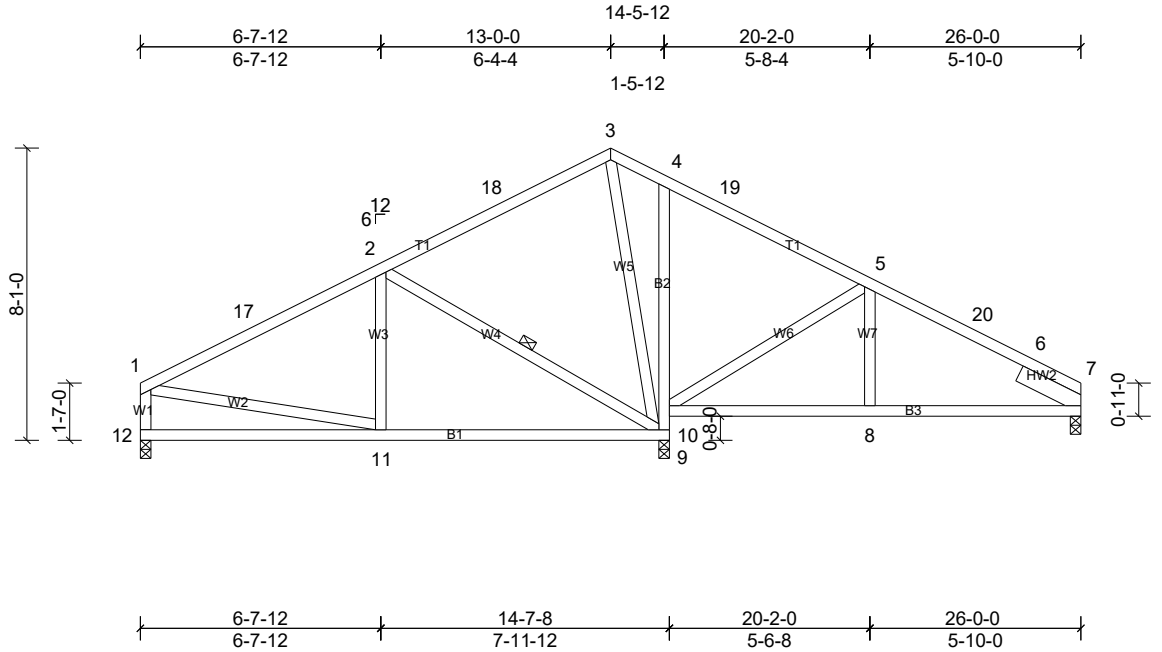
REACTIONS (lb/size) 9=500/0-3-8, (min. 0-1-8), 13=1093/0-3-8, (min. 0-1-8), 15=629/0-3-8, (min. 0-1-8)
Max Horiz 15=-252 (LC 8)
Max Uplift 9=-443 (LC 11), 13=-486 (LC 10), 15=-428 (LC 10)
Max Grav 9=511 (LC 22), 13=1093 (LC 1), 15=634 (LC 21)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-20=-617/437, 3-20=-559/445, 3-4=-508/469, 4-21=-150/354, 5-21=-118/371, 5-6=-153/476, 6-22=-73/314, 7-22=-110/300, 7-23=-421/492, 8-23=-478/470, 2-15=-581/588
BOT CHORD 14-15=-335/265, 13-14=-405/484, 12-13=-569/567, 6-12=-260/348, 11-12=-264/382, 9-11=-263/384
WEBS 4-14=0/268, 4-13=-557/541, 5-13=-340/63, 7-12=-481/461, 2-14=-155/382

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-2-8 to 1-9-8, Interior (1) 1-9-8 to 10-0-0, Exterior (2) 10-0-0 to 16-0-0, Interior (1) 16-0-0 to 24-2-8, Exterior (2) 24-2-8 to 27-2-8 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
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 3-06-00 tall by 2-00-00 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 428 lb uplift at joint 15, 443 lb uplift at joint 9 and 486 lb uplift at joint 13.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
24061913	D2	Roof Special	1	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.09	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.19	10-11	>912	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 153 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 10-4:2x4 SP No.3
WEBS 2x4 SP No.3
SLIDER Right 2x6 SP No.2 -- 1-11-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-11-14 oc bracing: 10-11.
WEBS 1 Row at midpt 2-10

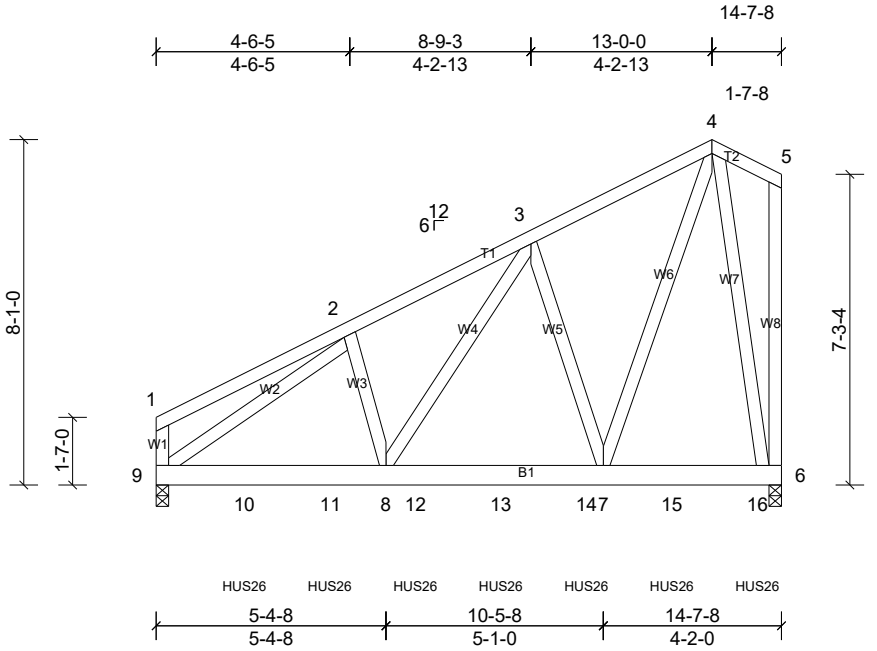
REACTIONS (lb/size) 7=428/0-3-8, (min. 0-1-8), 10=1094/0-3-8, (min. 0-1-8), 12=547/0-3-8, (min. 0-1-8)
Max Horiz 12=-238 (LC 8)
Max Uplift 7=-359 (LC 11), 10=-504 (LC 10), 12=-344 (LC 10)
Max Grav 7=439 (LC 22), 10=1094 (LC 1), 12=550 (LC 21)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-624/450, 2-17=-543/471, 2-18=-151/316, 3-18=-118/347, 3-4=-158/451, 4-19=-74/288, 5-19=-111/272, 5-20=-425/476, 6-20=-452/460, 1-12=-496/431
BOT CHORD 11-12=-288/239, 10-11=-420/490, 9-10=-575/576, 4-9=-264/357, 8-9=-293/403, 7-8=-293/403
WEBS 2-11=0/266, 2-10=-564/552, 3-10=-318/68, 5-9=-491/471, 1-11=-179/407

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 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 10-0-0, Exterior (2) 10-0-0 to 16-0-0, Interior (1) 16-0-0 to 23-0-0, Exterior (2) 23-0-0 to 26-0-0 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 3-06-00 tall by 2-00-00 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 359 lb uplift at joint 7, 344 lb uplift at joint 12 and 504 lb uplift at joint 10.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
24061913	D3	Common Girder	1	**3**	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	0.07	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.10	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 367 lb	FT = 20%

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

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

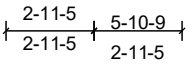
REACTIONS (lb/size) 6=5023/0-3-8, (min. 0-2-7), 9=4176/0-3-8, (min. 0-2-0)
Max Horiz 9=574 (LC 25)
Max Uplift 6=-2586 (LC 8), 9=-2074 (LC 8)
Max Grav 6=6230 (LC 15), 9=5110 (LC 16)

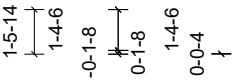
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-744/368, 2-3=-6000/2538, 3-4=-3252/1448, 4-5=-285/229, 1-9=-449/301
BOT CHORD 9-10=-2233/5139, 10-11=-2233/5139, 8-11=-2233/5139, 8-12=-1523/3509, 12-13=-1523/3509, 13-14=-1523/3509, 7-14=-1523/3509, 7-15=-492/947, 15-16=-492/947, 6-16=-492/947
WEBS 4-6=-4610/1946, 4-7=-2623/6103, 3-7=-2222/1210, 3-8=-1554/3698, 2-8=-381/1244, 2-9=-5768/2219

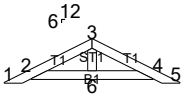
NOTES
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2586 lb uplift at joint 6 and 2074 lb uplift at joint 9.
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) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 14-0-12 to connect truss(es) to front face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.

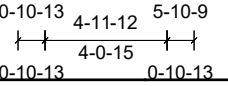
LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-5=-60, 6-9=-20
Concentrated Loads (lb)
Vert: 10=-1149 (F), 11=-1149 (F), 12=-1149 (F), 13=-1149 (F), 14=-1149 (F), 15=-1149 (F), 16=-1155 (F)

Job	Truss	Truss Type	Qty	Ply	
24061913	PB1	Piggyback	2	1	Job Reference (optional)









Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/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	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 17 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 or 5-11-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

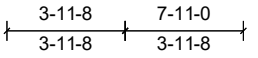
REACTIONS (lb/size) 2=118/4-0-15, (min. 0-1-8), 4=118/4-0-15, (min. 0-1-8), 6=162/4-0-15, (min. 0-1-8)
Max Horiz 2=45 (LC 10)
Max Uplift 2=-92 (LC 10), 4=-101 (LC 11), 6=-69 (LC 10)
Max Grav 2=118 (LC 21), 4=118 (LC 22), 6=162 (LC 1)

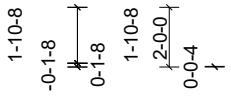
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

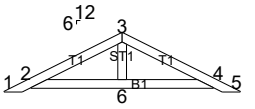
NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical 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.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 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 3-06-00 tall by 2-00-00 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) 2, 6, 2 except (jt=lb) 4=101, 4=101.
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 piggyback truss connection detail for connection to base truss.

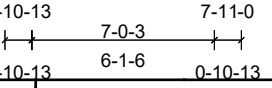
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
24061913	PB2	Piggyback	18	1	Job Reference (optional)









Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 24 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 or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=157/6-1-6, (min. 0-1-8), 4=157/6-1-6, (min. 0-1-8), 6=246/6-1-6, (min. 0-1-8)
Max Horiz 2=63 (LC 10)
Max Uplift 2=-119 (LC 10), 4=-131 (LC 11), 6=-105 (LC 10)

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=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 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.
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 3-06-00 tall by 2-00-00 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 119 lb uplift at joint 2, 131 lb uplift at joint 4, 105 lb uplift at joint 6, 119 lb uplift at joint 2 and 131 lb uplift at joint 4.
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 piggyback truss connection detail for connection to base truss.

LOAD CASE(S) Standard