

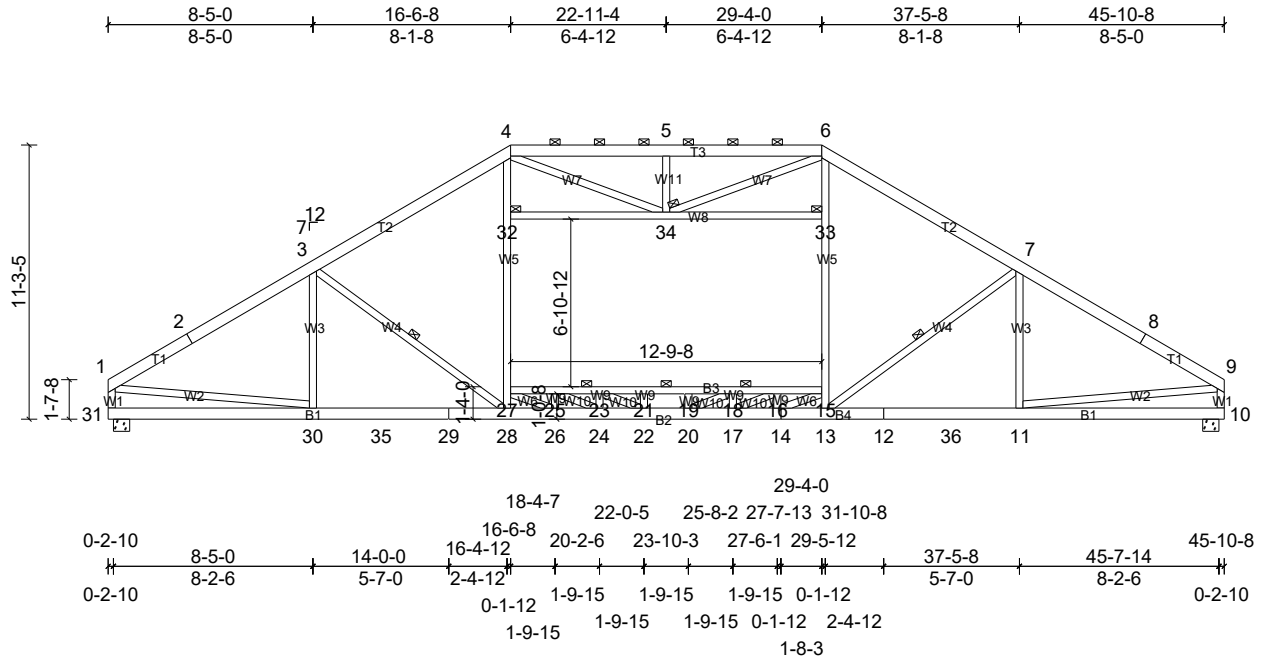
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A1	Attic	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:21:44

Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.29	28-30	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.35	23-25	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.17	15-27	>910	360	Weight: 411 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 27-15:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 28-4,13-6,32-33:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-3-11 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-2 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 4-1-6 oc bracing.

WEBS 1 Row at midpt 3-28, 7-13
JOINTS 1 Brace at Jt(s): 32, 33, 34

REACTIONS (lb/size) 10=1615/0-8-0, (min. 0-2-2), 31=1615/0-8-0, (min. 0-2-2)
Max Horiz 31=-320 (LC 6)
Max Uplift 10=-269 (LC 11), 31=-269 (LC 10)
Max Grav 10=1814 (LC 2), 31=1814 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2636/603, 2-3=-2558/627, 3-4=-2466/631, 4-5=-2359/832, 5-6=-2359/832, 6-7=-2466/631, 7-8=-2558/627, 8-9=-2636/603, 1-31=-1738/466, 9-10=-1738/466
BOT CHORD 30-31=-308/432, 30-35=-395/2304, 29-35=-395/2304, 28-29=-395/2304, 26-28=-330/2042, 24-26=-306/2677, 22-24=-23/3123, 20-22=0/3356, 17-20=0/3084, 14-17=-33/2591, 13-14=-180/1981, 12-13=-395/2210, 12-36=-395/2210, 11-36=-395/2210, 25-27=-721/206, 23-25=-1280/0, 21-23=-1596/0, 19-21=-1596/0, 18-19=-1596/0, 16-18=-1282/0, 15-16=-688/248

WEBS 3-28=-438/378, 27-28=-84/474, 27-32=-5/794, 4-32=0/815, 13-15=-84/495, 15-33=-5/794, 6-33=0/815, 7-13=-438/379, 5-34=-314/252, 4-34=-381/573, 6-34=-381/573, 25-26=-523/0, 23-24=-308/37, 17-18=-307/39, 14-16=-526/0, 26-27=0/775, 24-25=-15/756, 22-23=-145/464, 14-15=-16/711, 16-17=-12/744, 18-20=-150/465, 1-30=-341/2027, 9-11=-341/2027

- 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=25ft; Cat. II; Exp B; 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) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 5x5 (=) MT20 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Ceiling dead load (5.0 psf) on member(s). 32-34, 33-34
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 25-27, 23-25, 21-23, 19-21, 18-19, 16-18, 15-16
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 269 lb uplift at joint 31 and 269 lb uplift at joint 10.
 - 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



UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:21:46 Page: 1
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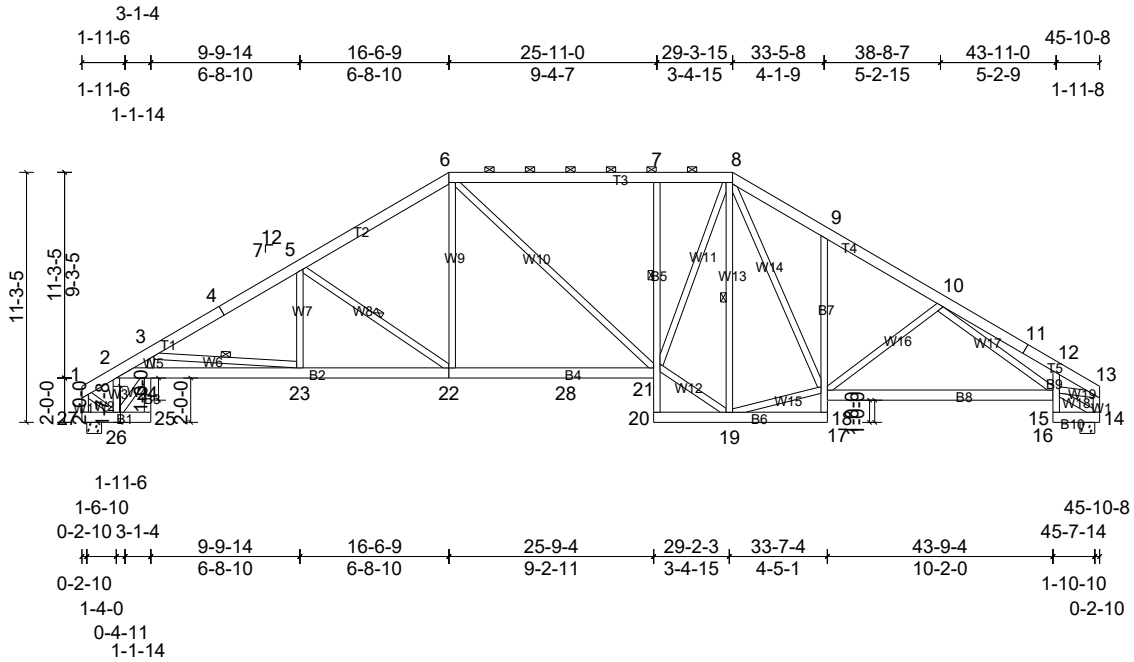


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A3	Piggyback Base	4	1	

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Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:21:47
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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	0.19	23-24	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.38	21-22	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.33	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 411 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
25-24,7-20,18-9,12-15:2x4 SP No.3, 2-22:2x6 SP No.1
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-2-14 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-8 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 7-21
WEBS 1 Row at midpt 5-22, 8-19, 3-23

REACTIONS (lb/size) 14=1458/0-8-0, (min. 0-1-12), 27=1458/0-8-0, (min. 0-1-12)
Max Horiz 27=-320 (LC 6)
Max Uplift 14=-363 (LC 11), 27=-363 (LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1053/408, 2-3=-4458/1526, 3-4=-2770/1013, 4-5=-2709/1032, 5-6=-2137/887, 6-7=-1887/890, 7-8=-1879/887, 8-9=-2112/1007, 9-10=-2140/877, 10-11=-2294/881, 11-12=-2325/863, 12-13=-2229/794, 1-27=-1336/497, 13-14=-1430/498
BOT CHORD 26-27=-317/343, 2-24=-1014/3150, 23-24=-1253/3842, 22-23=-694/2362, 22-28=-392/1765, 21-28=-392/1765, 7-21=-398/307, 9-17=-285/240, 16-17=-657/2005
WEBS 5-23=-68/404, 5-22=-840/433, 6-22=-159/731, 6-21=-267/310, 19-21=-335/1641, 8-21=-433/1272, 8-19=-1064/265, 17-19=-249/1425, 8-17=-387/935, 10-17=-370/269, 2-26=-1843/627, 1-26=-331/945, 2-26=-530/1384, 3-24=-295/1042, 3-23=-1564/650, 13-16=-631/1839

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

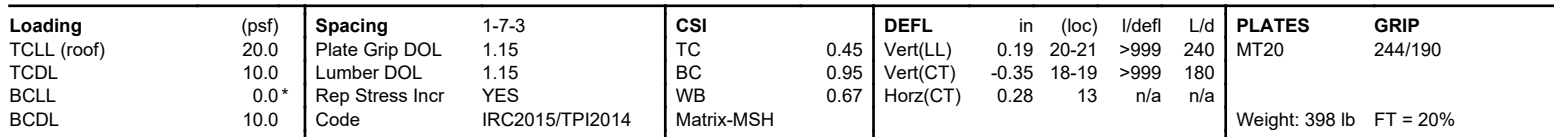
- 2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 3-06-00 tall by 2-00-00 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 363 lb uplift at joint 27 and 363 lb uplift at joint 14.
- 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

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:21:47 Page: 1
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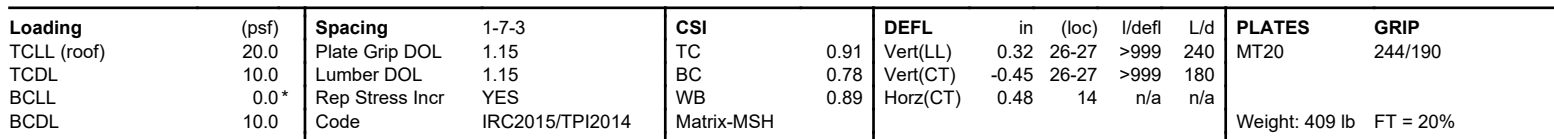


LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:21:48 Page: 1
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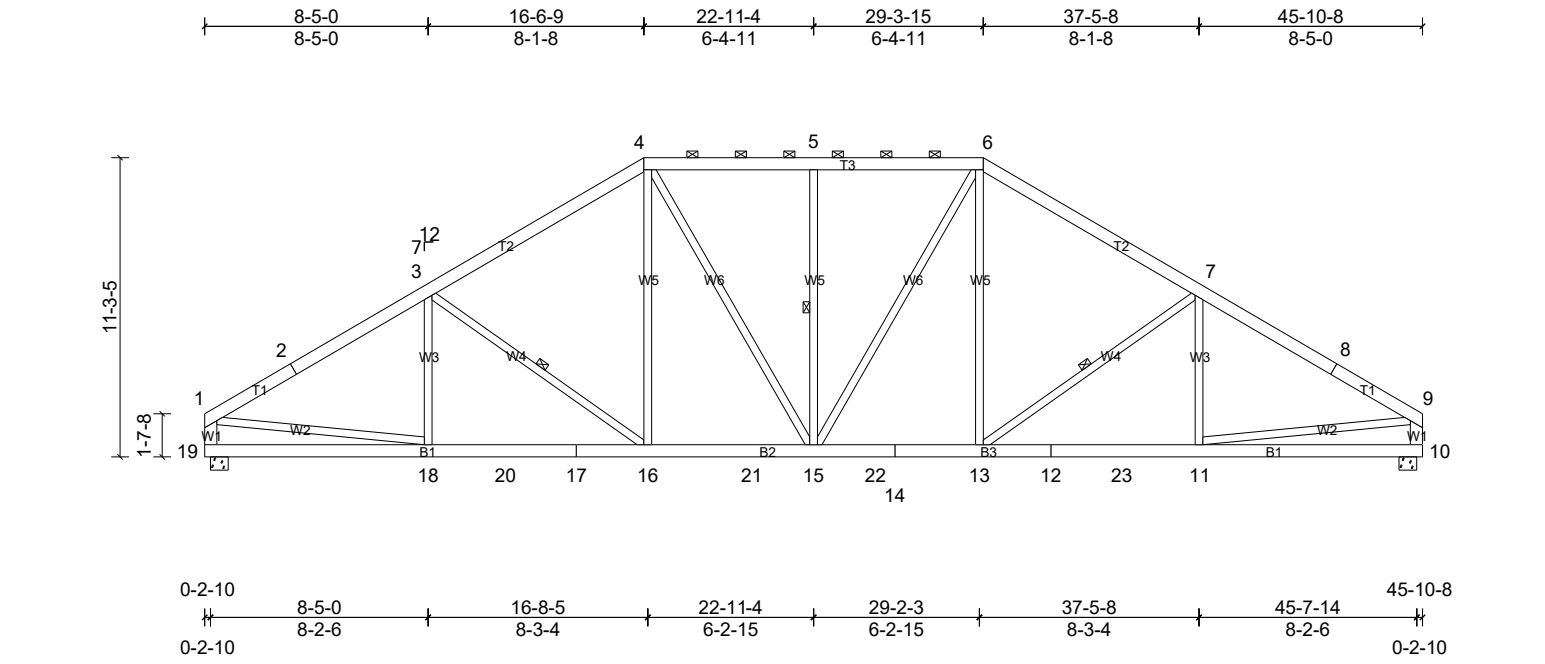
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=155mph (3-second gust)
Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x5 (||) MT20 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 3-06-00 tall by 2-00-00 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 353 lb uplift at joint 30 and 335 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

NOTES

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A7	Piggyback Base	1	1	



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.08	15-16	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.16	16-18	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.05	10	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 383 lb FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2

BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.3 *Except* 19-1,10-9:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-3 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-8 max.): 4-6.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 1 Row at midpt 3-16, 5-15, 7-13

REACTIONS (lb/size) 10=1452/0-8-0, (min. 0-1-11), 19=1452/0-8-0, (min. 0-1-11)

Max Horiz 19=-321 (LC 6)

Max Uplift 10=-361 (LC 11), 19=-361 (LC 10)

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

TOP CHORD 1-2=-2030/743, 2-3=-1953/768, 3-4=-1773/789, 4-5=-1576/803, 5-6=-1576/803, 6-7=-1773/789, 7-8=-1953/768, 8-9=-2030/743, 1-19=-1381/557, 9-10=-1381/557

BOT CHORD 18-19=-330/441, 18-20=-513/1772, 17-20=-513/1772, 16-17=-513/1772, 16-21=-319/1455, 15-21=-319/1455, 15-22=-313/1455, 14-22=-313/1455, 13-14=-313/1455, 12-13=-513/1687, 12-23=-513/1687, 11-23=-513/1687

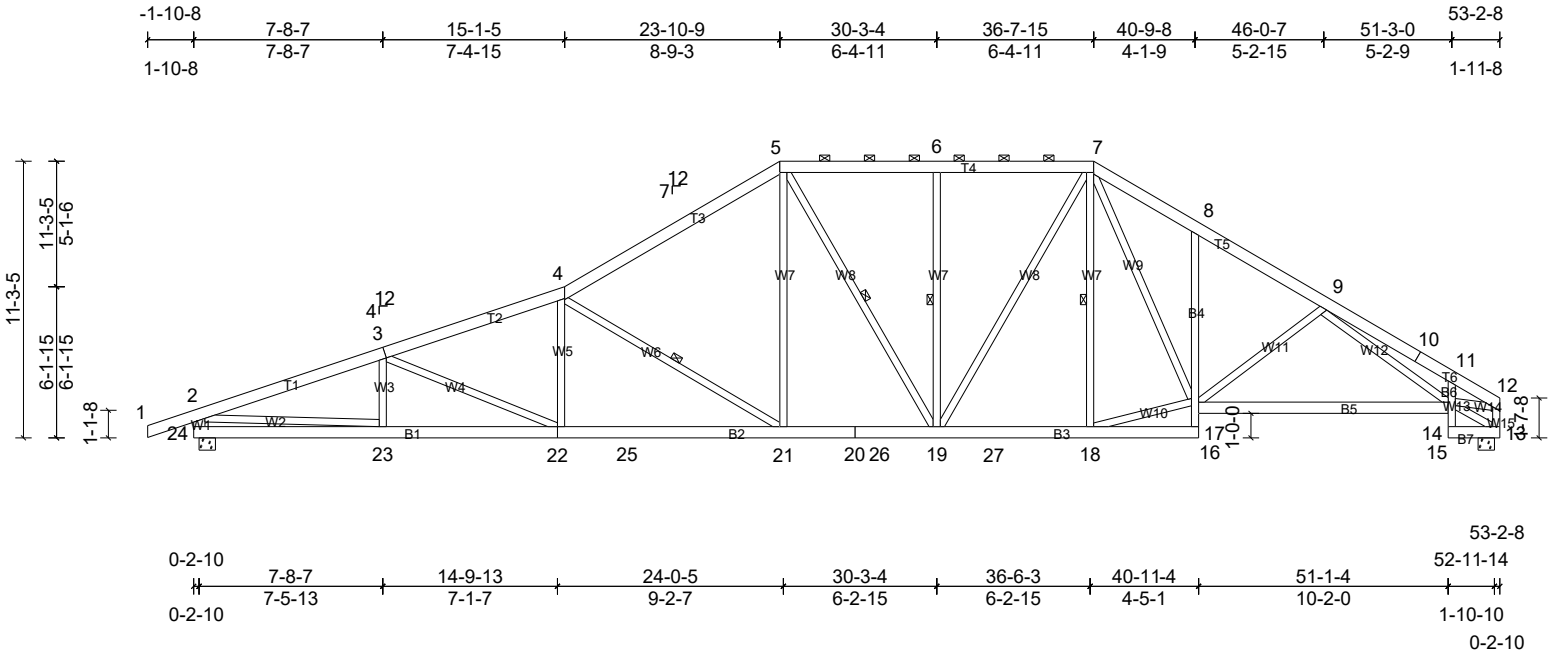
WEBS 3-16=-474/316, 4-16=-119/476, 4-15=-257/354, 5-15=-331/255, 6-15=-257/354, 6-13=-119/476, 7-13=-474/316, 9-11=-440/1502, 1-18=-440/1502

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
 - 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 3-06-00 tall by 2-00-00 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 361 lb uplift at joint 19 and 361 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A8	Piggyback Base	3	1	



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	0.23	22	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.44	21-22	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.17	13	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 458 lb FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2

BOT CHORD 2x6 SP No.2 *Except* 17-8,11-14:2x4 SP No.3

WEBS 2x4 SP No.3 *Except* 24-2:2x6 SP No.2, 23-2:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-4 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-5 max.): 5-7.

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

WEBS 1 Row at midpt 4-21, 5-19, 6-19, 7-18

REACTIONS (lb/size) 13=1688/0-8-0, (min. 0-2-0), 24=1793/0-8-0, (min. 0-2-2)

Max Horiz 24=362 (LC 7)

Max Uplift 13=-395 (LC 11), 24=-540 (LC 10)

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

TOP CHORD 2-3=-3594/1447, 3-4=-3436/1412, 4-5=-2478/1081, 5-6=-2037/1013, 6-7=-2037/1013, 7-8=-2545/1188, 8-9=-2582/1065, 9-10=-2654/1034, 10-11=-2683/1016, 11-12=-2582/945, 12-13=-1654/594, 2-24=-1697/858

BOT CHORD 23-24=-428/777, 22-23=-1313/3345, 22-25=-1161/3199, 21-25=-1161/3199, 20-21=-584/2060, 20-26=-584/2060, 19-26=-584/2060, 19-27=-464/1780, 18-27=-464/1780, 8-16=-277/235, 15-16=-817/2379

WEBS 3-22=-178/270, 4-22=-36/322, 4-21=-1366/689, 5-21=-294/916, 6-19=-335/265, 7-19=-286/605, 7-18=-305/143, 16-18=-390/1762, 7-16=-414/1000, 9-16=-363/269, 12-15=-756/2132, 2-23=-995/2575

NOTES

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

- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; 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
- 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 3-06-00 tall by 2-00-00 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 540 lb uplift at joint 24 and 395 lb uplift at joint 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.
- 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

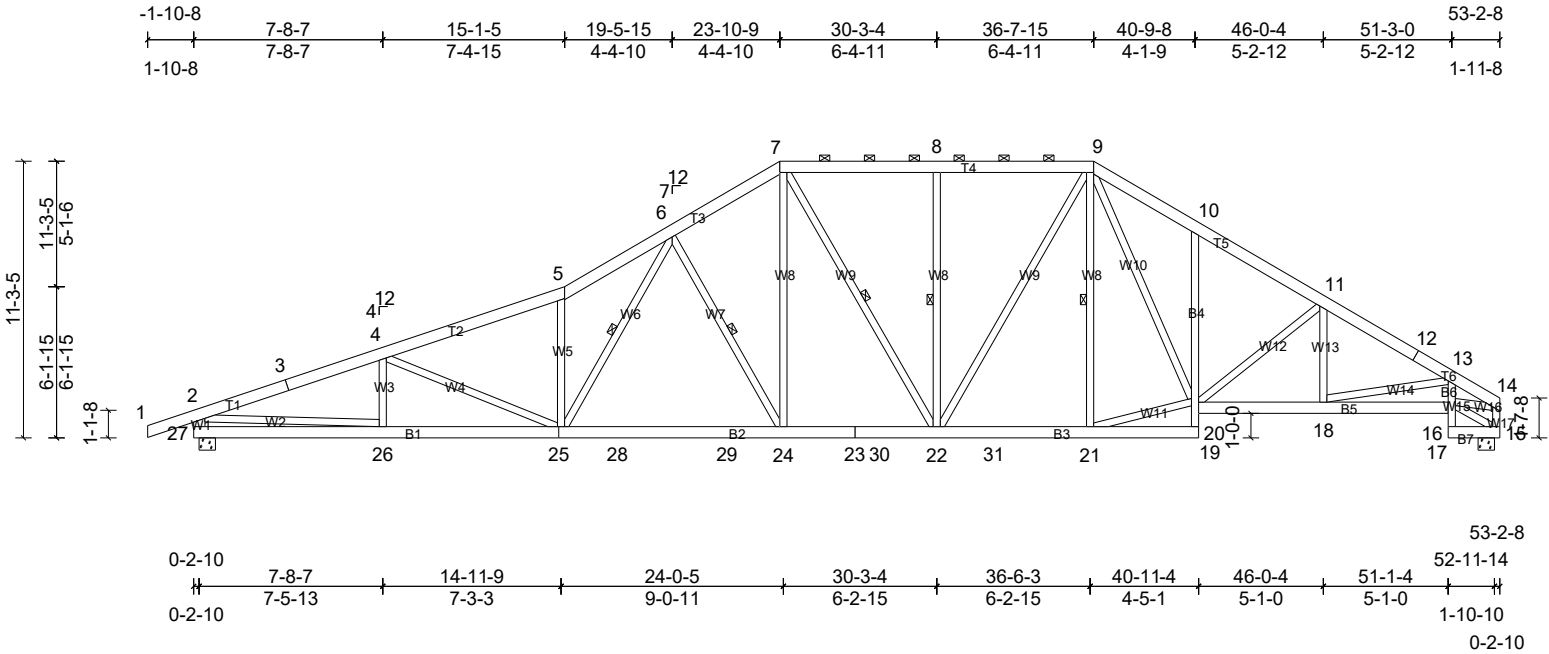
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A9	Hip	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:21:50

Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	0.26	24-25	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.50	24-25	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.18	15	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 473 lb FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 20-10,13-16:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 27-2:2x6 SP No.2, 26-2,14-17:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-6 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-6 max.): 7-9.
BOT CHORD Rigid ceiling directly applied or 6-4-14 oc bracing.
WEBS 1 Row at midpt 6-25, 6-24, 7-22, 8-22, 9-21

REACTIONS

(lb/size) 15=1688/0-8-0, (min. 0-2-0), 27=1793/0-8-0, (min. 0-2-2)
Max Horiz 27=362 (LC 7)
Max Uplift 15=-395 (LC 11), 27=-540 (LC 10)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3607/1437, 3-4=-3536/1458, 4-5=-3420/1397, 5-6=-3786/1681, 6-7=-2455/1124, 7-8=-2057/1015, 8-9=-2057/1015, 9-10=-2520/1191, 10-11=-2563/1071, 11-12=-2812/1091, 12-13=-2838/1073, 13-14=-3057/1135, 2-27=-1697/857, 14-15=-1612/597
BOT CHORD 26-27=-420/760, 25-26=-1320/3355, 25-28=-832/2520, 28-29=-832/2520, 24-29=-832/2520, 23-24=-576/2090, 23-30=-576/2090, 22-30=-576/2090, 22-31=-464/1783, 21-31=-464/1783, 10-19=-272/228, 18-19=-793/2429, 17-18=-947/2685
WEBS 4-25=-212/259, 5-25=-1078/596, 6-25=-686/1488, 6-24=-966/541, 7-24=-399/1076, 8-22=-339/253, 9-22=-288/614, 9-21=-285/148, 19-21=-418/1672, 9-19=-421/972, 11-19=-448/234, 13-18=-320/202, 2-26=-1023/2607, 14-17=-908/2517

NOTES

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

- 2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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) 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 3-06-00 tall by 2-00-00 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 540 lb uplift at joint 27 and 395 lb uplift at joint 15.
- 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

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



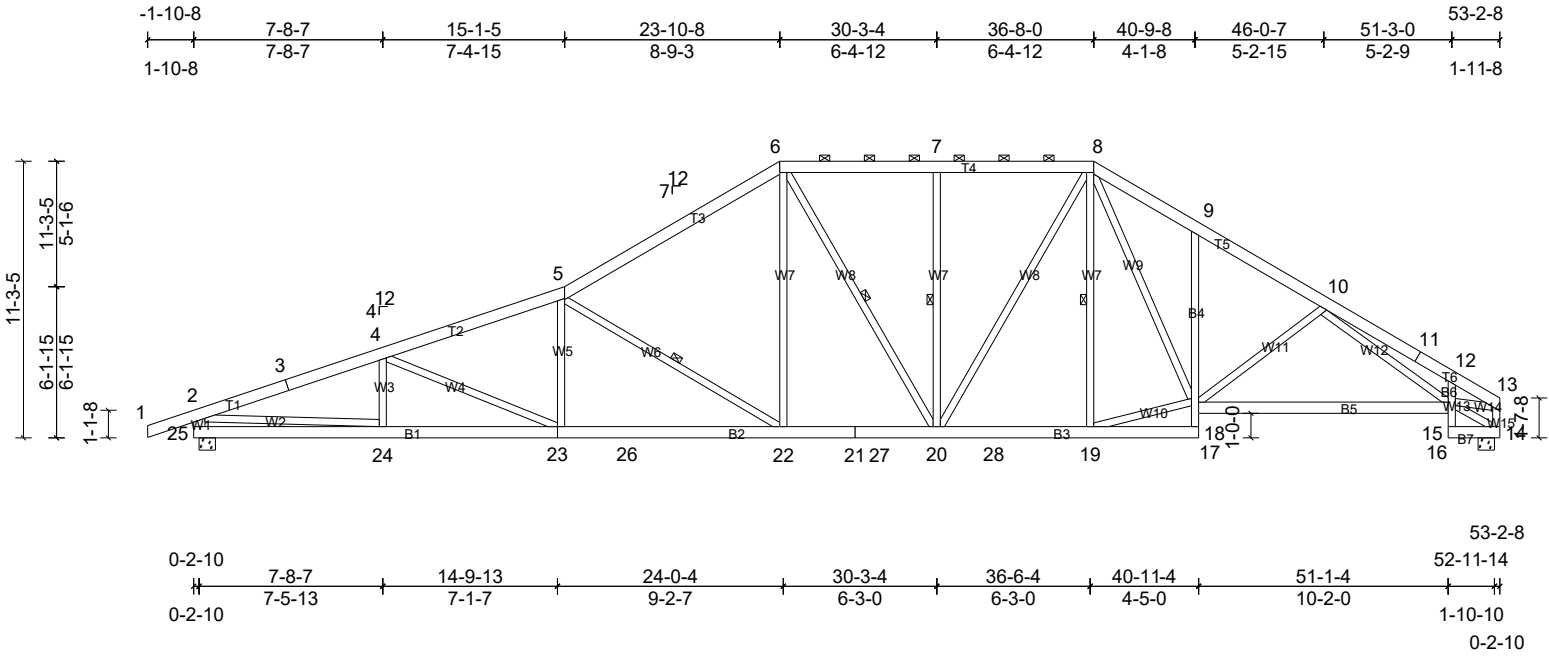
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A10	Hip	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:21:51

Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	0.23	23	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.44	22-23	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.17	14	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 458 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 18-9,12-15:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 25-2:2x6 SP No.2, 24-2:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-4 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-5 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-22, 6-20, 7-20, 8-19

REACTIONS (lb/size) 14=1688/0-8-0, (min. 0-2-0), 25=1793/0-8-0, (min. 0-2-2)
Max Horiz 25=362 (LC 7)
Max Uplift 14=395 (LC 11), 25=540 (LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3597/1429, 3-4=-3524/1450, 4-5=-3437/1411, 5-6=-2478/1081, 6-7=-2037/1014, 7-8=-2037/1014, 8-9=-2545/1188, 9-10=-2582/1065, 10-11=-2654/1034, 11-12=-2683/1016, 12-13=-2582/945, 13-14=-1654/594, 2-25=-1697/858
BOT CHORD 24-25=-425/774, 23-24=-1312/3343, 23-26=-1161/3200, 22-26=-1161/3200, 21-22=-585/2060, 21-27=-585/2060, 20-27=-585/2060, 20-28=-464/1780, 19-28=-464/1780, 9-17=-277/235, 16-17=-817/2379
WEBS 4-23=-176/270, 5-23=-35/322, 5-22=-1366/689, 6-22=-294/917, 7-20=-335/265, 8-20=-286/605, 8-19=-305/143, 17-19=-390/1762, 8-17=-414/1000, 10-17=-363/269, 13-16=-756/2132, 2-24=-1002/2581

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

- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- 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 3-06-00 tall by 2-00-00 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 540 lb uplift at joint 25 and 395 lb uplift at joint 14.
- 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

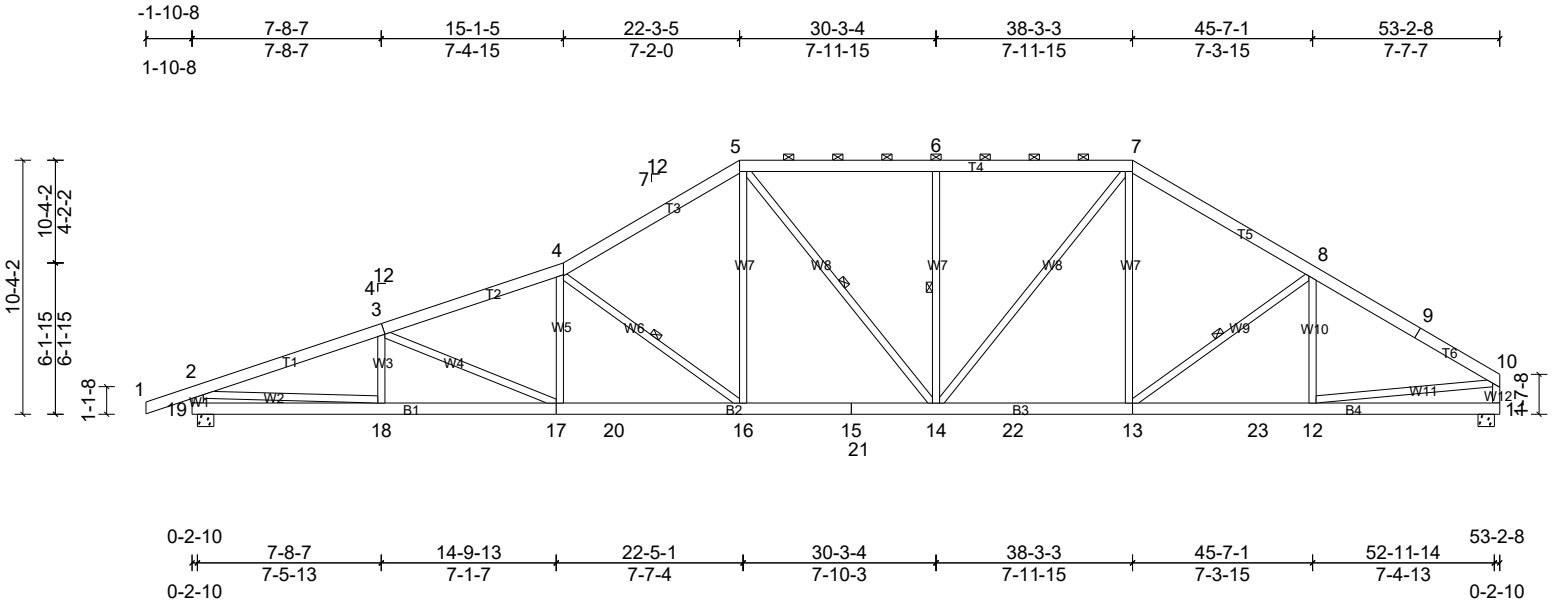


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A11	Hip	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:21:52
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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	0.22	17	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.40	16-17	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.11	11	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 423 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 19-2:2x6 SP No.2, 18-2:2x4 SP No.2

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

REACTIONS (lb/size) 11=1688/0-8-0, (min. 0-2-0), 19=1793/0-8-0, (min. 0-2-2)
Max Horiz 19=336 (LC 7)
Max Uplift 11=-377 (LC 11), 19=-526 (LC 10)

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

TOP CHORD 2-3=-3599/1460, 3-4=-3426/1423, 4-5=-2644/1157, 5-6=-2276/1087, 6-7=-2276/1087, 7-8=-2250/986, 8-9=-2309/928, 9-10=-2383/907, 10-11=-1618/659, 2-19=-1698/861

BOT CHORD 18-19=-421/771, 17-18=-1326/3350, 17-20=-1169/3188, 16-20=-1169/3188, 15-16=-674/2235, 15-21=-674/2235, 14-21=-674/2235, 14-22=-514/1871, 13-22=-514/1871, 13-23=-663/1994, 12-23=-663/1994

WEBS 4-17=-38/292, 4-16=-1252/633, 5-16=-316/957, 5-14=-165/252, 6-14=-432/323, 7-14=-334/741, 7-13=-98/425, 8-13=-354/275, 10-12=-611/1847, 2-18=-1009/2587

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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

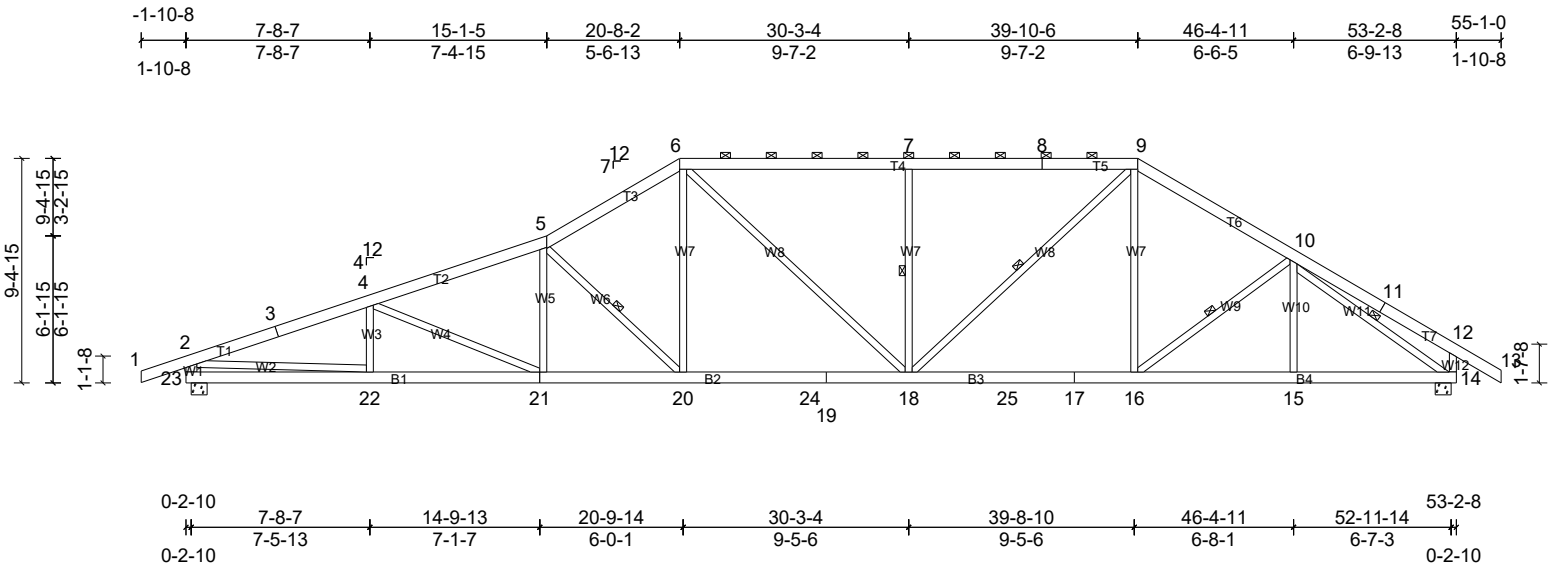
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 526 lb uplift at joint 19 and 377 lb uplift at joint 11.
- 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

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A12	Hip	1	1	



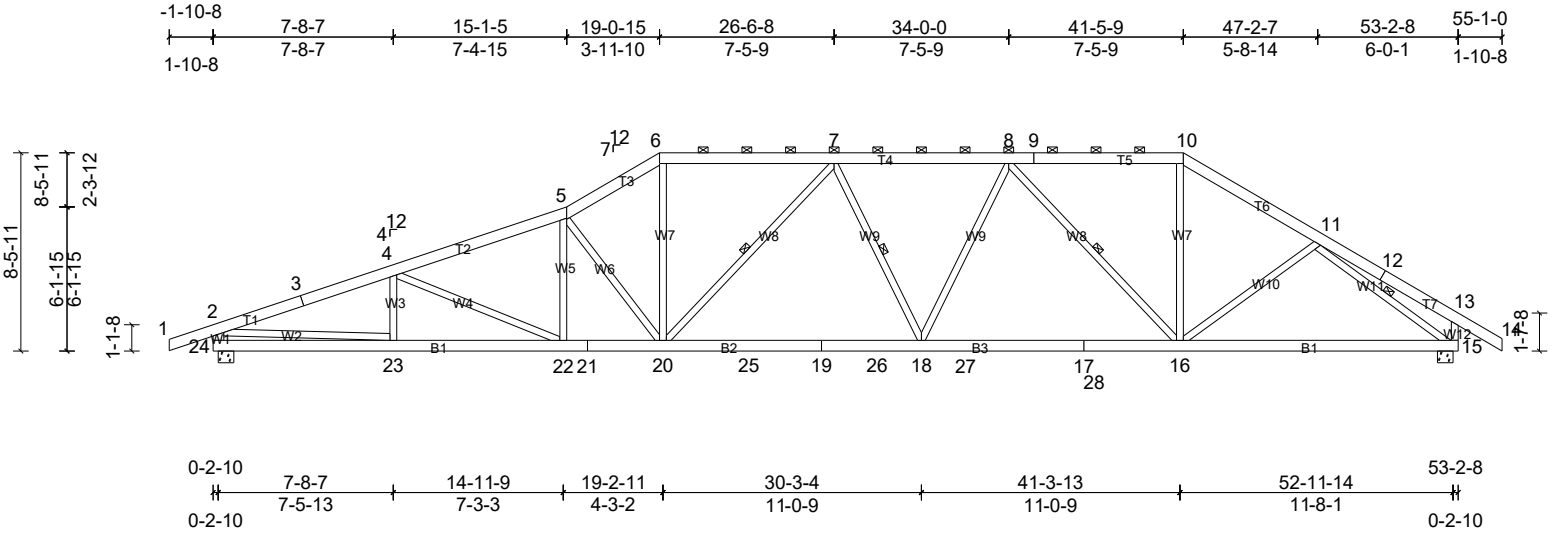
Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.22	20-21	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.44	18-20	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.12	14	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 421 lb FT = 20%

- LUMBER**
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except* 23-2:2x6 SP No.2, 22-2:2x4 SP No.2
- BRACING**
 TOP CHORD Structural wood sheathing directly applied or 3-5-5 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-2 max.): 6-9.
 BOT CHORD Rigid ceiling directly applied or 6-6-10 oc bracing.
 WEBS 1 Row at midpt 5-20, 7-18, 9-18, 10-16, 10-14
- REACTIONS** (lb/size) 14=1786/0-8-0, (min. 0-2-2), 23=1791/0-8-0, (min. 0-2-2)
 Max Horiz 23=321 (LC 9)
 Max Uplift 14=-415 (LC 11), 23=-559 (LC 6)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3601/1452, 3-4=-3530/1473, 4-5=-3413/1432, 5-6=-2804/1237, 6-7=-2497/1176, 7-8=-2497/1176, 8-9=-2497/1176, 9-10=-2265/989, 10-11=-372/274, 11-12=-398/245, 12-14=-423/348, 2-23=-1696/864
 BOT CHORD 22-23=-400/763, 21-22=-1260/3349, 20-21=-1101/3175, 20-24=-694/2381, 19-24=-694/2381, 18-19=-694/2381, 18-25=-479/1889, 17-25=-479/1889, 16-17=-479/1889, 15-16=-575/1925, 14-15=-576/1925
 WEBS 5-21=-39/253, 5-20=-1141/582, 6-20=-337/963, 6-18=-175/346, 7-18=-526/385, 9-18=-395/914, 9-16=-63/351, 10-16=-268/227, 10-14=-2129/696, 2-22=-1020/2598
- 2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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) Provide adequate drainage to prevent water ponding.
 4) All plates are 5x8 (=) MT20 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 3-06-00 tall by 2-00-00 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 559 lb uplift at joint 23 and 415 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) 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) Unbalanced roof live loads have been considered for this design.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A13	Hip	1	1	



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.25	18-20	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.52	18-20	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.13	15	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 412 lb FT = 20%

LUMBER			2) Wind: ASCE 7-10; Vult=155mph (3-second gust)		
TOP CHORD	2x6 SP No.2		Vasd=123mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat.		
BOT CHORD	2x6 SP No.2		II; Exp B; Enclosed; MWFRS (envelope) exterior zone		
WEBS	2x4 SP No.3 *Except* 24-2:2x6 SP No.2, 23-2:2x4 SP No.2		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		
BRACING			3) Provide adequate drainage to prevent water ponding.		
TOP CHORD	Structural wood sheathing directly applied or 3-5-5 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-0 max.): 6-10.		4) All plates are 5x8 (=) MT20 unless otherwise indicated.		
BOT CHORD	Rigid ceiling directly applied or 6-6-4 oc bracing.		5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.		
WEBS	1 Row at midpt 7-20, 7-18, 8-16, 11-15		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, with BCDL = 10.0psf.		
REACTIONS (lb/size)			7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 610 lb uplift at joint 24 and 411 lb uplift at joint 15.		
	15=1786/0-8-0, (min. 0-2-2), 24=1791/0-8-0, (min. 0-2-2)		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.		
	Max Horiz 24=295 (LC 9)		9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.		
	Max Uplift 15=-411 (LC 6), 24=-610 (LC 6)		LOAD CASE(S) Standard		
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.					
TOP CHORD	2-3=-3604/1463, 3-4=-3533/1484, 4-5=-3405/1444, 5-6=-3004/1328, 6-7=-2576/1195, 7-8=-2761/1231, 8-9=-1946/909, 9-10=-1946/909, 10-11=-2308/982, 11-12=-328/203, 12-13=-352/178, 13-15=-388/303, 2-24=-1697/868				
BOT CHORD	23-24=-395/760, 22-23=-1270/3351, 21-22=-1112/3171, 20-21=-1112/3171, 20-25=-906/2788, 19-25=-906/2788, 19-26=-906/2788, 18-26=-906/2788, 18-27=-808/2576, 17-27=-808/2576, 17-28=-808/2576, 16-28=-808/2576, 15-16=-602/1855				
WEBS	5-20=-1055/554, 6-20=-485/1248, 7-20=-471/227, 8-18=-69/468, 8-16=-998/458, 10-16=-278/861, 11-15=-2102/805, 2-23=-1029/2603				

NOTES

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

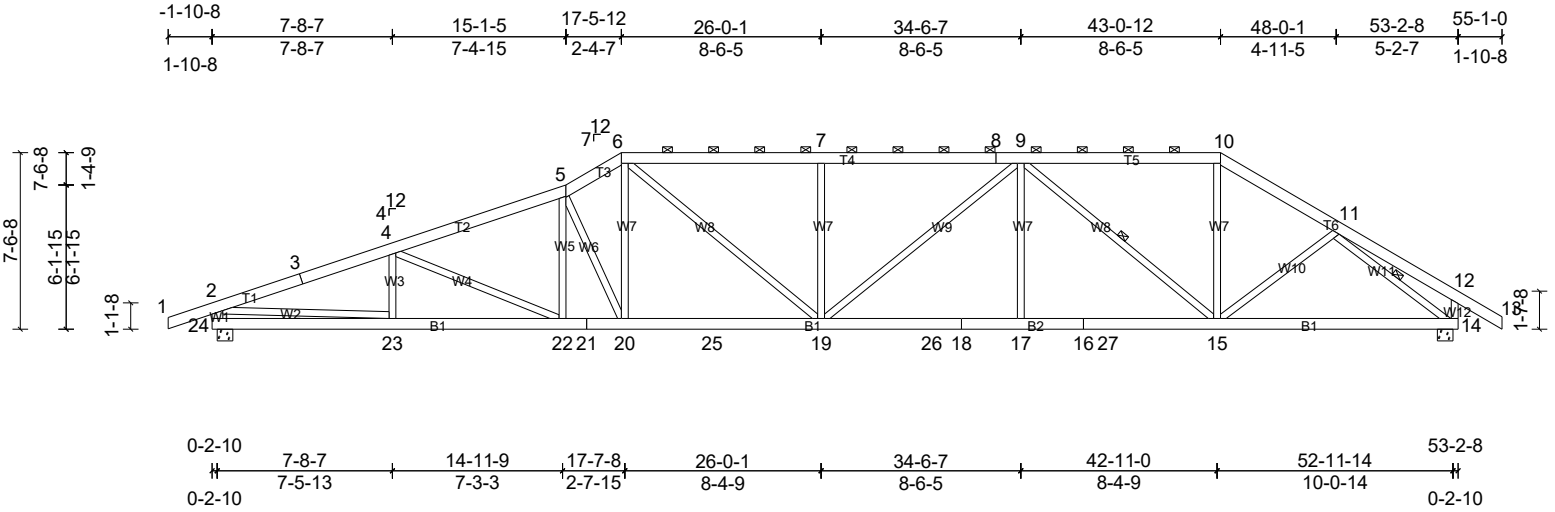
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A14	Hip	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:21:53

Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	0.29	19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.48	19-20	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.13	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 415 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 24-2:2x6 SP No.2, 23-2:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-5 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-2 max.): 6-10.
BOT CHORD Rigid ceiling directly applied or 6-5-14 oc bracing.
WEBS 1 Row at midpt 9-15, 11-14

REACTIONS (lb/size) 14=1786/0-8-0, (min. 0-2-2), 24=1791/0-8-0, (min. 0-2-2)
Max Horiz 24=269 (LC 9)
Max Uplift 14=465 (LC 6), 24=662 (LC 6)

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

TOP CHORD 2-3=-3604/1476, 3-4=-3533/1497, 4-5=-3406/1455, 5-6=-3221/1445, 6-7=-3186/1437, 7-8=-3186/1437, 8-9=-3186/1437, 9-10=-1973/912, 10-11=-2307/988, 11-12=-298/196, 12-14=-363/296, 2-24=-1697/873

BOT CHORD 23-24=-387/760, 22-23=-1282/3351, 21-22=-1122/3172, 20-21=-1122/3172, 20-25=-924/2787, 19-25=-924/2787, 19-26=-958/2921, 18-26=-958/2921, 17-18=-958/2921, 16-17=-958/2921, 16-27=-958/2921, 15-27=-958/2921, 14-15=-585/1797

WEBS 5-20=-1003/512, 6-20=-418/1029, 6-19=-233/658, 7-19=-426/315, 9-19=-160/409, 9-17=0/330, 9-15=-1313/532, 10-15=-272/854, 11-15=-177/304, 11-14=-2102/796, 2-23=-1040/2604

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=25ft; Cat. II; Exp B; 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are 5x8 (=) MT20 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 3-06-00 tall by 2-00-00 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 662 lb uplift at joint 24 and 465 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) 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

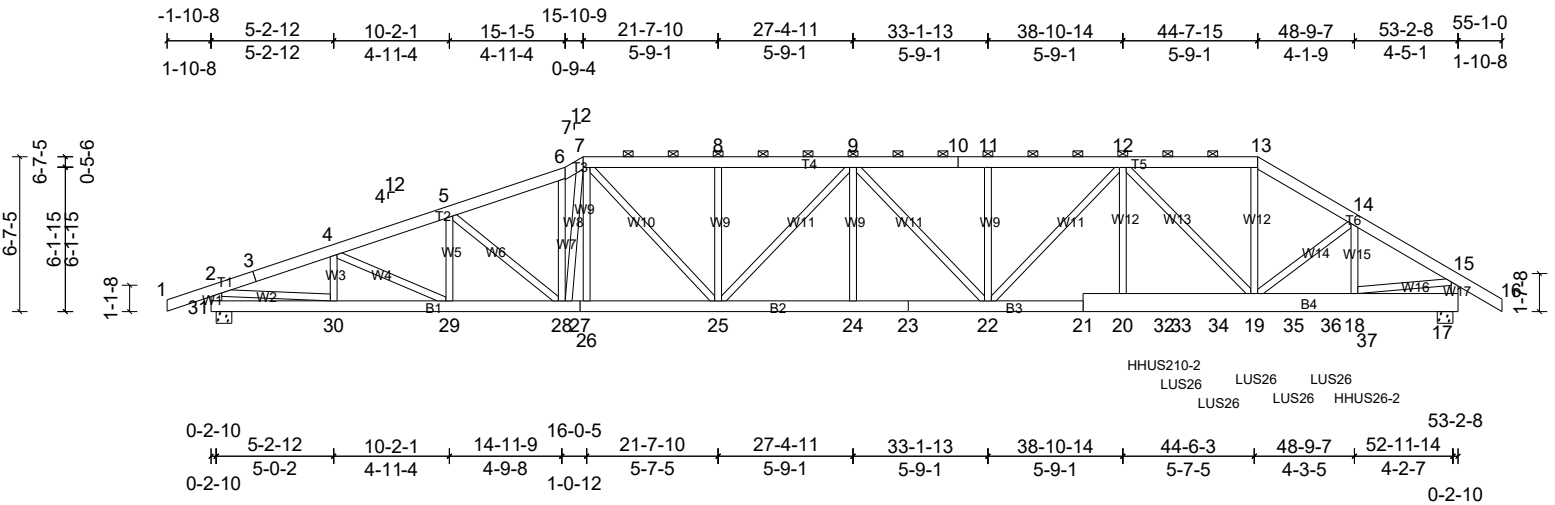


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A15	Hip Girder	1	3	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	0.27	22-24	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.41	22-24	>999	180	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.11	17	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 1396 lb FT = 20%	

Weight: 1396 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 21-17:2x10 SP No.1
WEBS 2x4 SP No.3 *Except* 31-2:2x6 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.); 7-13.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 17=6264/0-8-0, (min. 0-2-7), 31=2964/0-8-0, (min. 0-1-8)
Max Horiz 31=238 (LC 7)
Max Uplift 17=2319 (LC 4), 31=1122 (LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5788/2020, 3-4=-5763/2032, 4-5=-6622/2372, 5-6=-6562/2370, 6-7=-6944/2546, 7-8=-7560/2758, 8-9=-7560/2758, 9-10=-9639/3467, 10-11=-9639/3467, 11-12=-9639/3467, 12-13=-8272/3043, 13-14=-9486/3449, 14-15=-7980/3019, 2-31=-2812/1103, 15-17=-5822/2167

BOT CHORD 30-31=-506/1112, 29-30=-1915/5407, 28-29=-2189/6277, 27-28=-2052/6050, 26-27=-2052/6050, 25-26=-2054/6058, 24-25=-3025/8811, 23-24=-3025/8811, 22-23=-3025/8811, 21-22=-3534/10409, 20-21=-3526/10394, 20-32=-3534/10409, 32-33=-3534/10409, 33-34=-3534/10409, 19-34=-3534/10409, 19-35=-2499/6785, 35-36=-2499/6785, 18-36=-2499/6785, 18-37=-237/658, 17-37=-237/658, 4-30=-713/331, 4-29=-316/994, 5-29=-282/159, 5-28=-145/341, 6-28=-1158/449, 7-28=-391/1011, 7-26=-85/349, 7-25=-784/2312, 9-25=-1927/639, 9-22=-529/1358, 11-22=-301/201, 12-22=-1480/607, 12-20=-780/2885, 12-19=-3162/977, 13-19=-1593/4474, 14-19=-551/1856, 14-18=-1985/514, 2-30=-1523/4340, 15-18=-2330/6312

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 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x10 - 4 rows staggered at 0-4-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1122 lb uplift at joint 31 and 2319 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.
- 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 HHUS210-2 (30-10d Girder, 10-10d Truss) or equivalent at 40-8-0 from the left end to connect truss(es) to back face of bottom chord.

- Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss) or equivalent spaced at 1-7-3 oc max. starting at 41-4-13 from the left end to 47-9-9 to connect truss(es) to back face of bottom chord.
- Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 49-4-0 from the left end to connect truss(es) to back 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: 1-2=-48, 2-6=-48, 6-7=-48, 7-13=-48, 13-15=-48, 15-16=-48, 17-31=-16
Concentrated Loads (lb)
Vert: 19=-236, 32=-4075, 33=-236, 34=-236, 35=-236, 36=-236, 37=-398

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



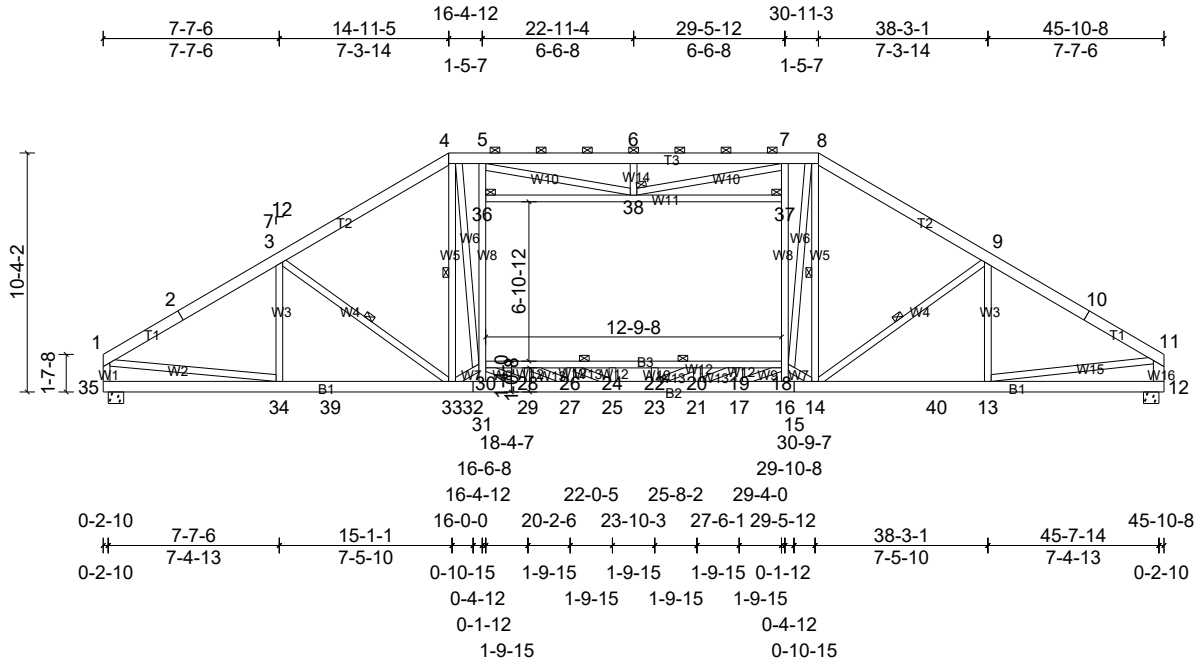
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A16	Attic	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:21:55

Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.16	22-24	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.29	22-24	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.07	12	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.06	18-30	>999	360	Weight: 458 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 30-18:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 5-31,7-16,36-37:2x4 SP No.2, 12-11:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-2 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-3 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 5-8-7 oc bracing.
WEBS 1 Row at midpt 3-33, 4-33, 8-14, 9-14
JOINTS 1 Brace at Jt(s): 36, 37, 38

REACTIONS (lb/size) 12=1610/0-8-0, (min. 0-2-2), 35=1609/0-8-0, (min. 0-2-2)
Max Horiz 35=294 (LC 7)
Max Uplift 12=-253 (LC 11), 35=-254 (LC 10)
Max Grav 12=1788 (LC 2), 35=1787 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2560/610, 2-3=-2489/630, 3-4=-2455/650, 4-5=-2264/637, 5-6=-2831/994, 6-7=-2831/994, 7-8=-2263/637, 8-9=-2449/648, 9-10=-2464/627, 10-11=-2538/606, 11-12=-1715/468, 12-13=-1715/468
BOT CHORD 34-35=-294/390, 34-39=-408/2172, 33-39=-408/2172, 32-33=-762/1545, 31-32=-762/1545, 29-31=-813/1561, 27-29=-517/2236, 25-27=-256/2667, 23-25=0/2909, 21-23=-33/2653, 17-21=-285/2214, 16-17=-585/1535, 15-16=-536/1521, 14-15=-536/1521, 14-40=-402/2129, 13-40=-402/2129, 28-30=-305/453, 26-28=-574/150, 24-26=-900/0, 22-24=-900/0, 20-22=-900/0, 19-20=-562/162, 18-19=-374/504

WEBS 3-33=-354/304, 4-33=-389/292, 30-36=-530/373, 5-36=-503/382, 18-37=-532/371, 7-37=-505/380, 8-14=-438/317, 9-14=-335/300, 6-38=-259/209, 5-38=-417/750, 7-38=-420/752, 28-29=-487/0, 26-27=-333/57, 20-21=-341/59, 17-19=-490/0, 29-30=0/1042, 27-28=-10/696, 25-26=-182/500, 17-18=0/1049, 19-21=-8/704, 20-23=-187/519, 30-33=-163/1117, 4-30=-430/1458, 14-18=-244/1205, 8-18=-464/1479, 1-34=-364/1996, 11-13=-347/1940

- 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=25ft; Cat. II; Exp B; 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) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 5x5 (=) MT20 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Ceiling dead load (5.0 psf) on member(s). 36-38, 37-38
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 28-30, 26-28, 24-26, 22-24, 20-22, 19-20, 18-19
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 254 lb uplift at joint 35 and 253 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

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



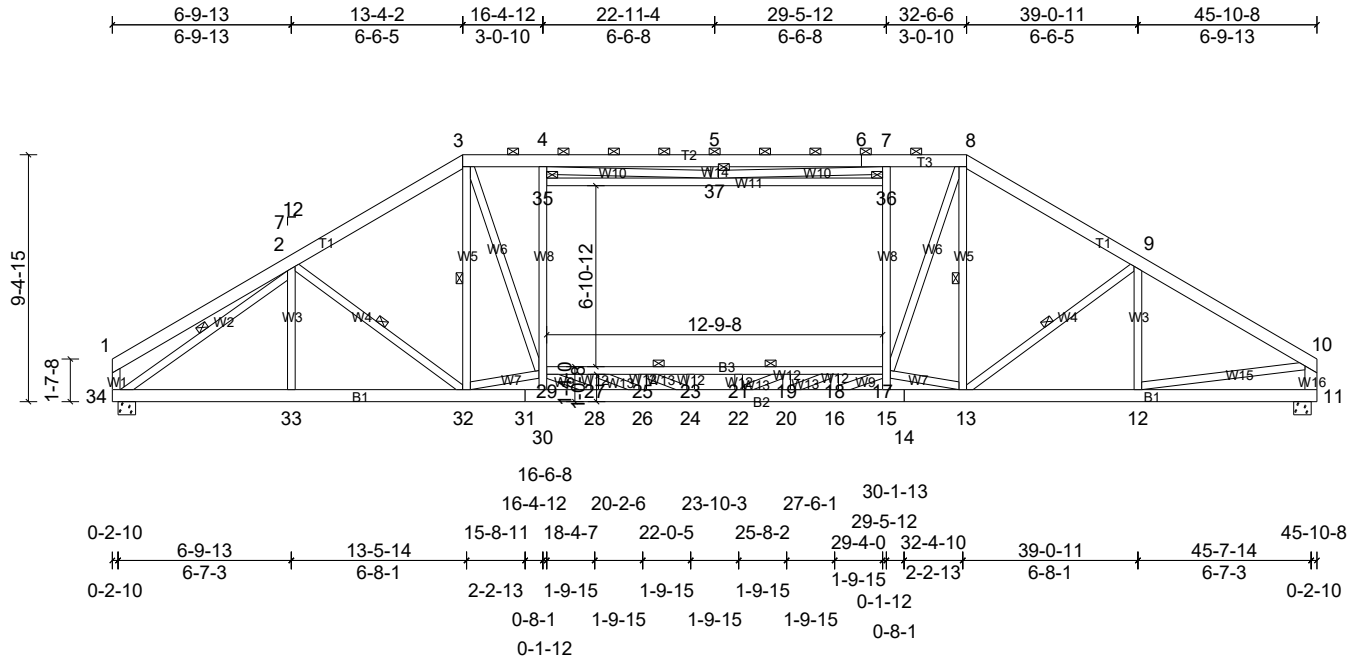
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A17	Attic	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:21:56

Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.14	21-23	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.27	21-23	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.08	11	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.05	17-29	>999	360	Weight: 448 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 29-17:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 4-30,7-15,35-36:2x4
SP No.2, 11-10:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or
4-6-3 oc purlins, except end verticals, and
2-0-0 oc purlins (3-11-2 max.): 3-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc
bracing.
WEBS 1 Row at midpt 2-32, 3-32, 8-13, 9-13,
2-34
JOINTS 1 Brace at Jt(s): 35,
36, 37

REACTIONS (lb/size) 11=1610/0-8-0, (min. 0-2-1),
34=1609/0-8-0, (min. 0-2-1)
Max Horiz 34=268 (LC 7)
Max Uplift 11=-235 (LC 11), 34=-237 (LC 10)
Max Grav 11=1735 (LC 2), 34=1734 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.
TOP CHORD 1-2=-358/198, 2-3=-2425/669,
3-4=-2529/686, 4-5=-2749/1016,
5-6=-2749/1016, 6-7=-2749/1016,
7-8=-2529/686, 8-9=-2416/667,
9-10=-2412/627, 1-34=-321/181,
10-11=-1665/469
BOT CHORD 33-34=-419/2038, 32-33=-418/2039,
31-32=-765/1492, 30-31=-765/1492,
28-30=-788/1462, 26-28=-522/2052,
24-26=-279/2490, 22-24=-57/2748,
20-22=-110/2475, 16-20=-331/2028,
15-16=-602/1436, 14-15=-579/1469,
13-14=-579/1469, 12-13=-412/2026,
27-29=-276/722, 25-27=-289/431,
23-25=-496/207, 21-23=-496/207,
19-21=-496/207, 18-19=-379/443,
17-18=-366/777

WEBS 2-32=-261/258, 3-32=-263/216,
29-35=-610/361, 4-35=-571/364,
17-36=-613/361, 7-36=-574/364,
8-13=-284/232, 9-13=-253/255,
9-12=-278/150, 2-34=-2286/471,
4-37=-479/607, 7-37=-479/609,
27-28=-487/0, 25-26=-323/42,
19-20=-331/44, 16-18=-492/0, 28-29=0/1061,
26-27=0/692, 24-25=-146/478, 16-17=0/1067,
18-20=0/700, 19-22=-151/497,
29-32=-59/1046, 3-29=-339/1473,
13-17=-147/1130, 8-17=-364/1493,
10-12=-371/1869

- 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=25ft; Cat. II; Exp B; 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) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 5x5 (=) MT20 unless otherwise indicated.
 - 5) The Fabrication Tolerance at joint 29 = 16%, joint 17 = 16%
 - 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) Ceiling dead load (5.0 psf) on member(s). 35-37, 36-37
 - 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 27-29, 25-27, 23-25, 21-23, 19-21, 18-19, 17-18
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 235 lb uplift at joint 11 and 237 lb uplift at joint 34.
 - 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.
13) Attic room checked for L/360 deflection.
LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



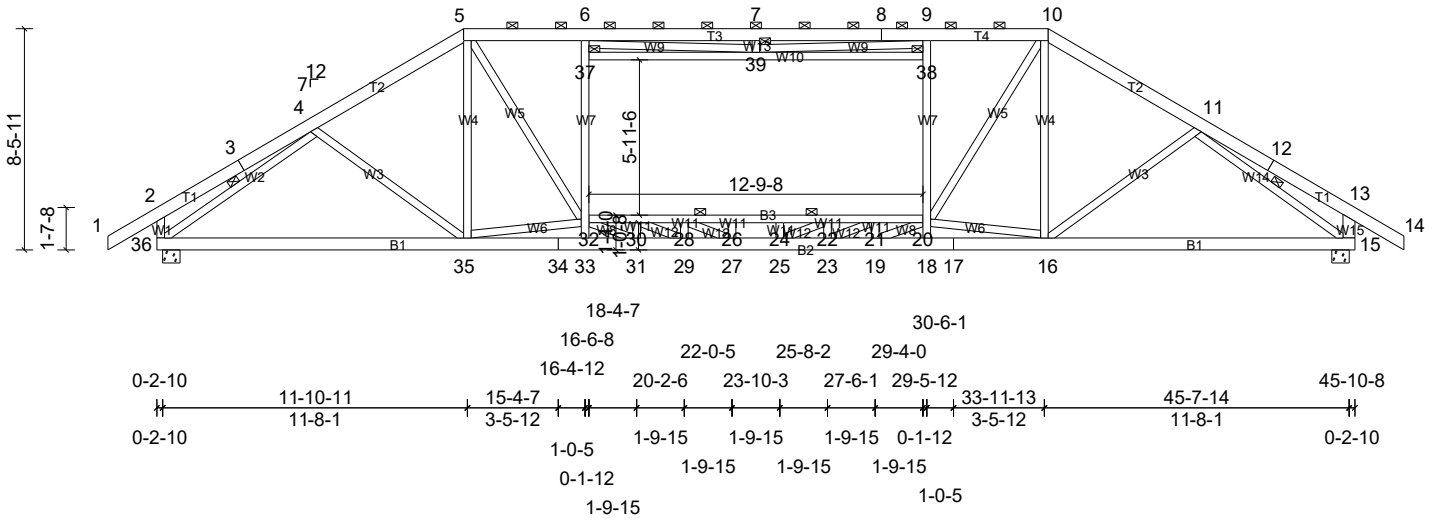
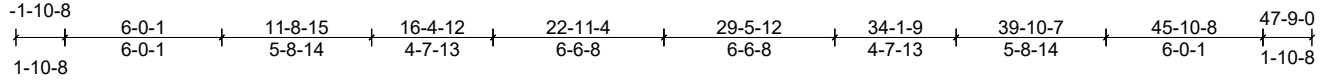
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A18	Attic	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:21:56

Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.15	25-27	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.28	24-26	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.09	15	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.04	20-32	>999	360	Weight: 439 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 32-20:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 6-33,9-18,37-38:2x4 SP No.2, 15-13:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-3 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-4 max.): 5-10.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-36, 11-15
JOINTS 1 Brace at Jt(s): 37, 38, 39

REACTIONS (lb/size) 15=1711/0-8-0, (min. 0-2-2), 36=1706/0-8-0, (min. 0-2-2)
Max Horiz 36=276 (LC 9)
Max Uplift 15=-276 (LC 11), 36=-275 (LC 10)
Max Grav 15=1820 (LC 2), 36=1814 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-348/148, 3-4=-323/173, 4-5=-2442/656, 5-6=-2832/728, 6-7=-3023/1066, 7-8=-3023/1066, 8-9=-3023/1066, 9-10=-2832/728, 10-11=-2428/653, 11-12=-410/163, 12-13=-451/139, 2-36=-402/283, 13-15=-447/283
BOT CHORD 35-36=-425/1942, 34-35=-715/1506, 33-34=-715/1506, 31-33=-730/1470, 29-31=-467/2143, 27-29=-253/2593, 25-27=-51/2874, 23-25=-83/2578, 19-23=-293/2118, 18-19=-556/1442, 17-18=-541/1482, 16-17=-541/1482, 15-16=-351/1915, 30-32=-280/865, 28-30=-316/561, 26-28=-355/361, 24-26=-355/361, 22-24=-355/361, 21-22=-407/575, 20-21=-370/890

WEBS 4-35=-118/264, 32-37=-587/345, 6-37=-547/348, 20-38=-588/345, 9-38=-547/348, 11-16=-114/276, 6-39=-468/596, 9-39=-468/598, 30-31=-484/0, 28-29=-314/21, 22-23=-319/24, 19-21=-488/0, 31-32=0/1102, 29-30=0/685, 27-28=-98/444, 19-20=0/1105, 21-23=0/694, 22-25=-104/464, 16-20=-47/957, 10-20=-343/1485, 32-35=0/872, 5-32=-325/1468, 4-36=-2208/527, 11-15=-2114/531

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are 5x5 (=) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 37-39, 38-39
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 30-32, 28-30, 26-28, 24-26, 22-24, 21-22, 20-21
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 276 lb uplift at joint 15 and 275 lb uplift at joint 36.
 - 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.
 - Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



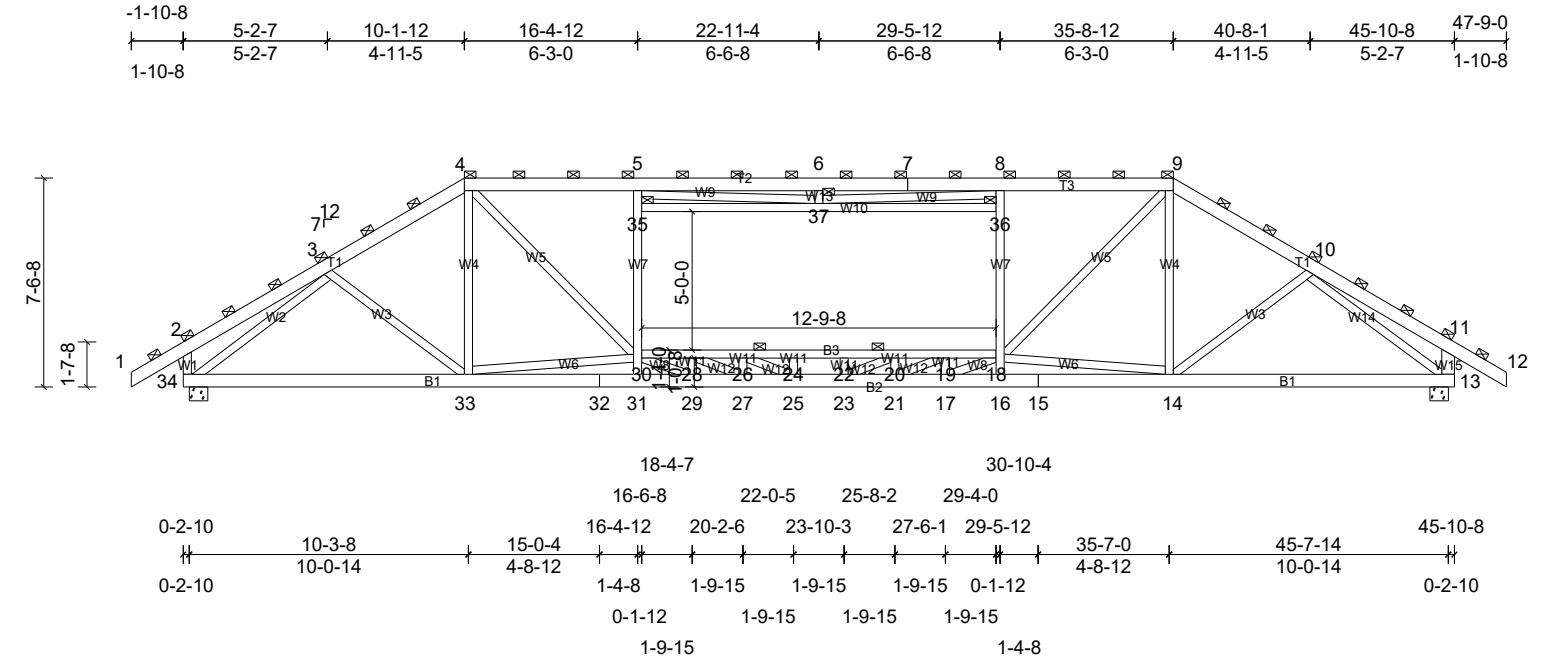
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A19	Attic	1	2	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:21:57

Page: 1

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Loading	(psf)	Spacing	3-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.16	25	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.30	23-25	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.08	13	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.04	18-30	>999	360	Weight: 864 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 30-18:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 5-31,8-16,35-36:2x4 SP No.2, 13-11:2x6 SP No.2

BRACING
TOP CHORD 2-0-0 oc purlins (5-6-6 max.), except end verticals
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 24-26,22-24,20-22.
JOINTS 1 Brace at Jt(s): 4, 9, 35, 36, 2, 11, 37

REACTIONS (lb/size) 13=3210/0-8-0, (min. 0-2-0), 34=3201/0-8-0, (min. 0-2-0)
Max Horiz 34=468 (LC 9)
Max Uplift 13=-480 (LC 11), 34=-478 (LC 10)
Max Grav 13=3414 (LC 2), 34=3404 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-550/313, 3-4=-4563/1252, 4-5=-6064/1501, 5-6=-6284/2077, 6-7=-6284/2077, 7-8=-6284/2077, 8-9=-6062/1501, 9-10=-4532/1246, 10-11=-731/286, 2-34=-687/515, 11-13=-768/509
BOT CHORD 33-34=-835/3529, 32-33=-1250/3062, 31-32=-1250/3062, 29-31=-1284/2968, 27-29=-879/4346, 25-27=-513/5215, 23-25=-210/5779, 21-23=-260/5186, 17-21=-588/4299, 16-17=-992/2916, 15-16=-959/3015, 14-15=-959/3015, 13-14=-645/3471, 28-30=-534/1958, 26-28=-654/1371, 24-26=-706/1025, 22-24=-706/1025, 20-22=-706/1025, 19-20=-814/1398, 18-19=-694/2004

WEBS 3-33=-218/596, 4-33=-264/336, 30-35=-1114/659, 5-35=-1037/665, 18-36=-1116/659, 8-36=-1038/665, 9-14=-304/344, 10-14=-225/629, 35-37=-348/128, 36-37=-355/128, 3-34=-4146/986, 5-37=-803/1010, 8-37=-802/1015, 28-29=-910/0, 26-27=-593/10, 24-25=-278/0, 22-23=-280/0, 20-21=-603/14, 17-19=-918/0, 29-30=0/2051, 27-28=0/1287, 25-26=-111/784, 17-18=0/2059, 19-21=0/1303, 20-23=-122/820, 30-33=0/1164, 4-30=-631/3148, 14-18=0/1306, 9-18=-661/3177, 10-13=-3962/1001

- NOTES**
- 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: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust)
Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are 5x5 (=) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Ceiling dead load (5.0 psf) on member(s). 35-37, 36-37
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 28-30, 26-28, 24-26, 22-24, 20-22, 19-20, 18-19
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 480 lb uplift at joint 13 and 478 lb uplift at joint 34.
 - 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.
 - Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

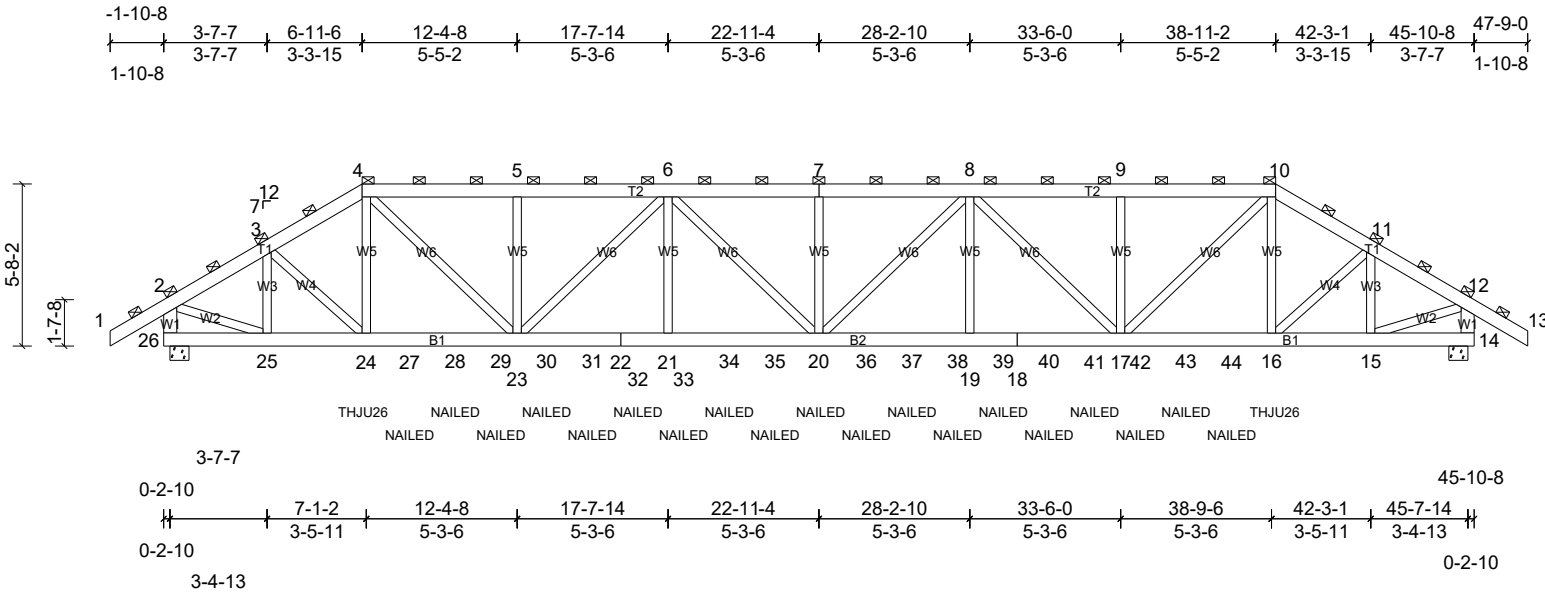


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A21	Hip Girder	1	3	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:21:58
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Loading	(psf)	Spacing	3-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	0.35	20-21	>999	240	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.41	20-21	>999	180	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.11	14	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							
Weight: 1130 lb FT = 20%											

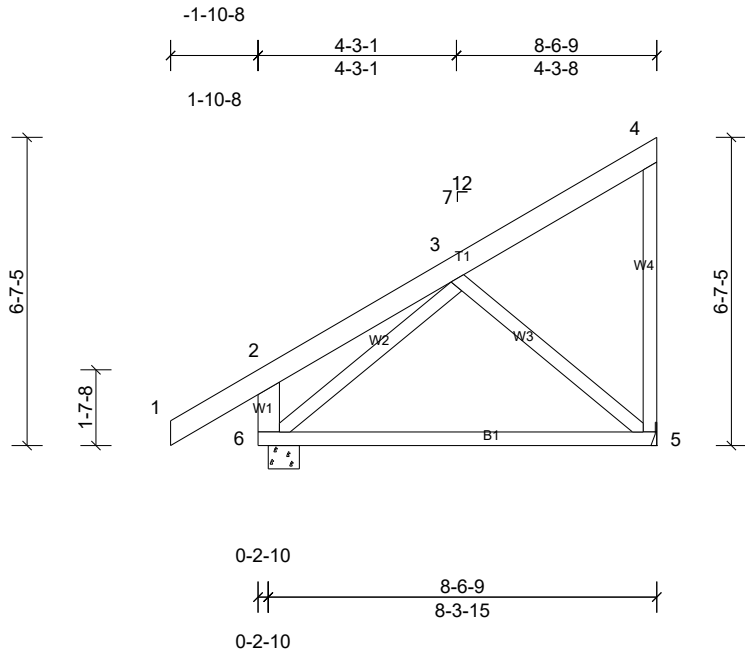
LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 26-2,14-12:2x6 SP No.2

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.

REACTIONS (lb/size) 14=5058/0-8-0, (min. 0-2-0), 26=5049/0-8-0, (min. 0-2-0)
Max Horiz 26=-371 (LC 6)
Max Uplift 14=-2620 (LC 4), 26=-2613 (LC 5)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5643/3109, 3-4=-6896/3940, 4-5=-9049/5158, 5-6=-9049/5158, 6-7=-11480/6431, 7-8=-11480/6431, 8-9=-9060/5164, 9-10=-9060/5164, 10-11=-6914/3951, 11-12=-5657/3118, 12-13=-4875/2573, 13-14=-4883/2578, 14-15=-4883/2578, 15-16=-4883/2578, 16-17=-4883/2578, 17-18=-4883/2578, 18-19=-4883/2578, 19-20=-4883/2578, 20-21=-4883/2578, 21-22=-4883/2578, 22-23=-4883/2578, 23-24=-4883/2578, 24-25=-4883/2578, 25-26=-4883/2578, 26-27=-4883/2578, 27-28=-4883/2578, 28-29=-4883/2578, 29-30=-4883/2578, 30-31=-4883/2578, 31-32=-4883/2578, 32-33=-4883/2578, 33-34=-4883/2578, 34-35=-4883/2578, 35-36=-4883/2578, 36-37=-4883/2578, 37-38=-4883/2578, 38-39=-4883/2578, 39-40=-4883/2578, 40-41=-4883/2578, 41-42=-4883/2578, 42-43=-4883/2578, 43-44=-4883/2578, 44-45=-4883/2578, 45-46=-4883/2578, 46-47=-4883/2578, 47-48=-4883/2578, 48-49=-4883/2578, 49-50=-4883/2578, 50-51=-4883/2578, 51-52=-4883/2578, 52-53=-4883/2578, 53-54=-4883/2578, 54-55=-4883/2578, 55-56=-4883/2578, 56-57=-4883/2578, 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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A22	Jack-Closed	3	1	



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.12	5-6	>810	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.24	5-6	>405	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 68 lb	FT = 20%

- LUMBER**

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except* 6-2:2x6 SP No.2
- BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (lb/size) 5=248/ Mechanical, 6=375/0-8-0, (min. 0-1-8)
 Max Horiz 6=283 (LC 7)
 Max Uplift 5=-143 (LC 10), 6=-119 (LC 10)
 Max Grav 5=312 (LC 17), 6=375 (LC 1)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
- TOP CHORD** 2-6=-235/253

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 6 and 143 lb uplift at joint 5.
 - 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.

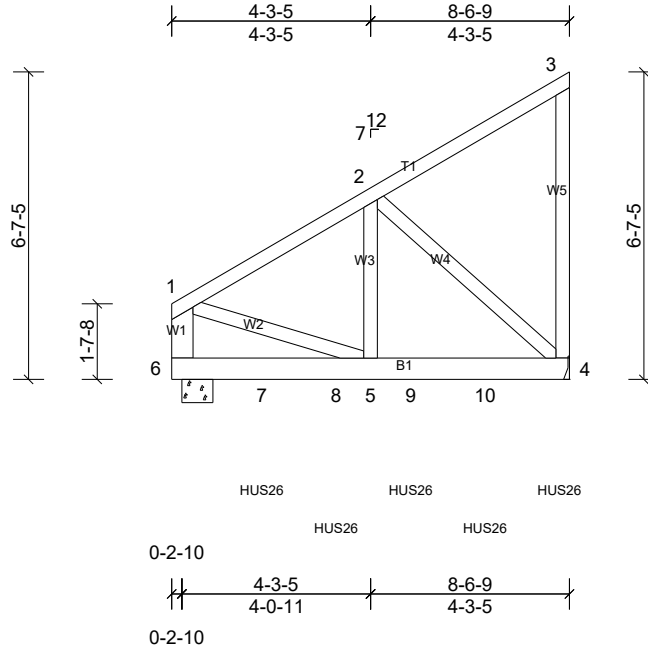
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A23	Jack-Closed Girder	1	2	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	0.03	4-5	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.06	4-5	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 129 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 6-1:2x6 SP No.2

BRACING

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

REACTIONS (lb/size) 4=4087/ Mechanical, 6=2787/0-8-0, (min. 0-1-10)
Max Horiz 6=260 (LC 5)
Max Uplift 4=-1121 (LC 8), 6=-656 (LC 8)

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

TOP CHORD 1-6=-2019/510, 1-2=-2611/626
BOT CHORD 6-7=-312/403, 7-8=-312/403, 5-8=-312/403, 5-9=-624/2213, 9-10=-624/2213, 4-10=-624/2213

WEBS 1-5=-477/1980, 2-5=-716/3083, 2-4=-2951/839

NOTES

- 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: 2x6 - 2 rows staggered at 0-7-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust)
Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 656 lb uplift at joint 6 and 1121 lb uplift at joint 4.
- 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 HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 1-7-3 oc max. starting at 1-11-4 from the left end to 8-4-0 to connect truss(es) 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=-48, 4-6=-16
Concentrated Loads (lb)
Vert: 4=-1275, 7=-1269, 8=-1269, 9=-1269, 10=-1269

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

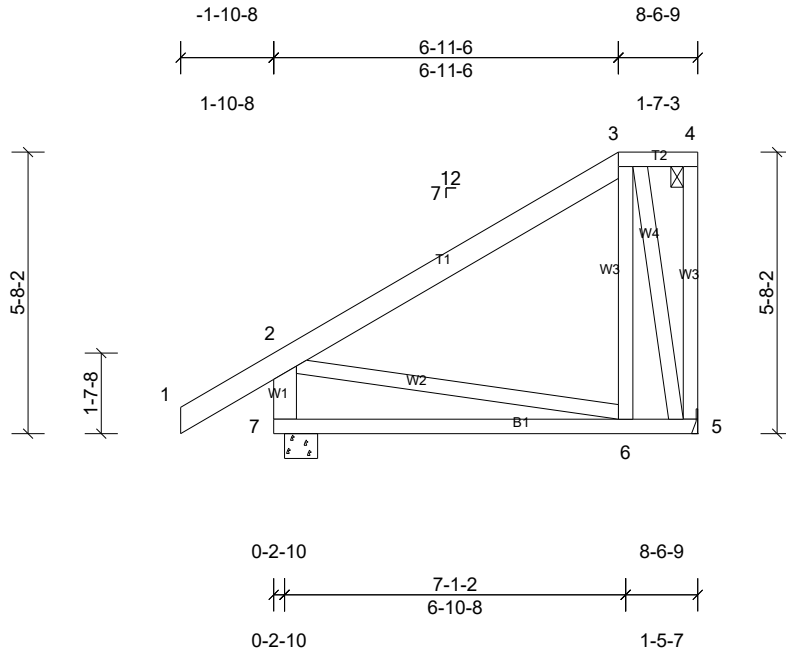


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A24	Half Hip	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:00
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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.04	6-7	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.09	6-7	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	5	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 75 lb FT = 20%

LUMBER	
TOP CHORD	2x6 SP No.2 *Except* 3-4:2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 7-2:2x6 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.): 3-4.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	(lb/size) 5=248/ Mechanical, 7=375/0-8-0, (min. 0-1-8) Max Horiz 7=251 (LC 7) Max Uplift 5=-124 (LC 7), 7=-128 (LC 10) Max Grav 5=255 (LC 17), 7=375 (LC 1)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-7=-324/267
BOT CHORD	6-7=-253/238
WEBS	3-5=-333/119

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 5 and 128 lb uplift at joint 7.

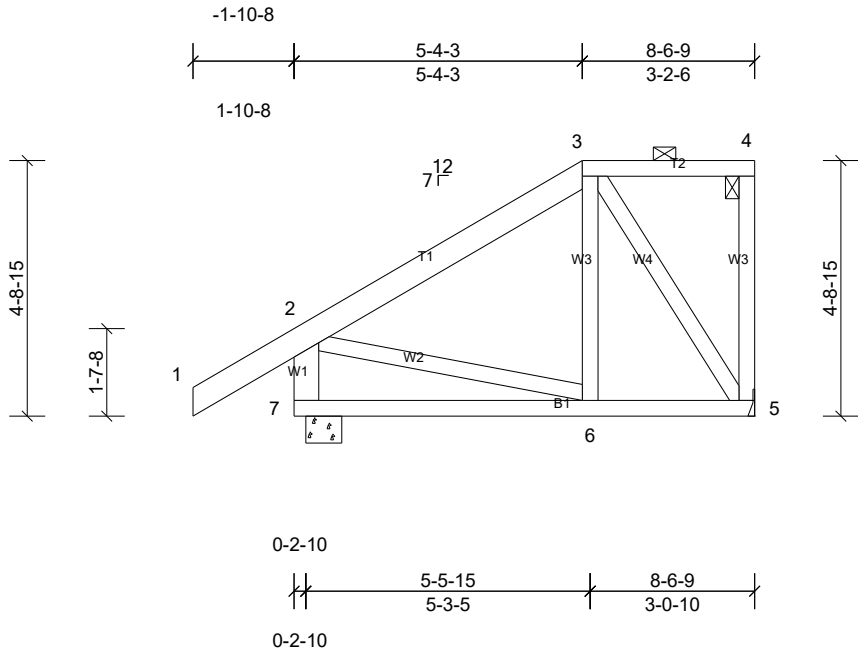
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A25	Half Hip	1	1	



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.02	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.03	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 67 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 3-4:2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 7-2:2x6 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.): 3-4.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=248/ Mechanical, 7=375/0-8-0, (min. 0-1-8)

Max Horiz 7=211 (LC 7)

Max Uplift 5=-122 (LC 7), 7=-132 (LC 10)

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

TOP CHORD 2-7=-335/269

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 5 and 132 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.

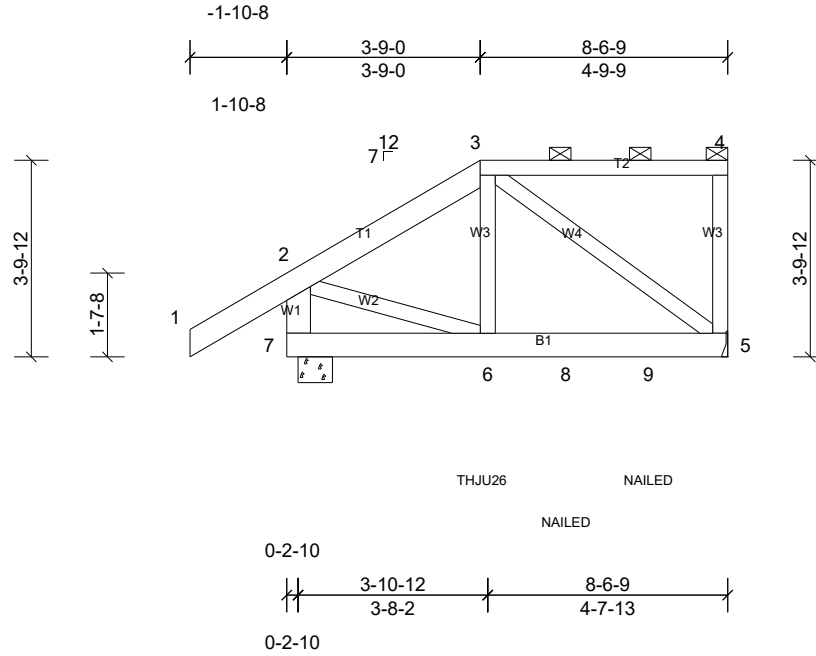
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A26	Half Hip Girder	1	2	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:01

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	0.01	5-6	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	5-6	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	5	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 134 lb FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 3-4:2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 7-2:2x6 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.): 3-4.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 5=411/ Mechanical, 7=488/0-8-0, (min. 0-1-8)
Max Horiz 7=168 (LC 7)
Max Uplift 5=361 (LC 5), 7=322 (LC 8)
Max Grav 5=457 (LC 17), 7=534 (LC 15)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-474/306, 2-7=-529/349
BOT CHORD 6-8=-340/394, 8-9=-340/394, 5-9=-340/394
WEBS 3-6=-266/388, 3-5=-455/365, 2-6=-283/414

NOTES

- 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: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 361 lb uplift at joint 5 and 322 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.
- Use Simpson Strong-Tie THJU26 (SGL & SGL RC 2-PLY) or equivalent at 3-9-6 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S)

- Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-48, 2-3=-48, 3-4=-48, 5-7=-16
Concentrated Loads (lb)
Vert: 6=-136, 8=-69, 9=-69



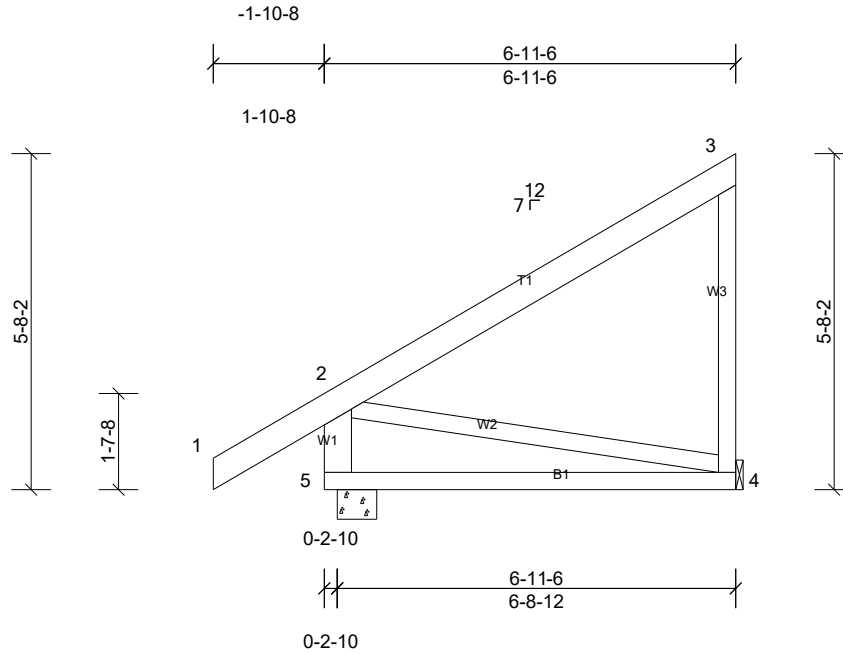
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A27	Jack-Closed	21	1	

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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.05	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.10	4-5	>773	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 54 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 5-2:2x6 SP No.2

BRACING

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

REACTIONS (lb/size) 4=194/ Mechanical, 5=327/0-8-0, (min. 0-1-8)
Max Horiz 5=243 (LC 9)
Max Uplift 4=-115 (LC 10), 5=-107 (LC 10)
Max Grav 4=250 (LC 17), 5=327 (LC 1)

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

TOP CHORD 2-5=-272/249

NOTES

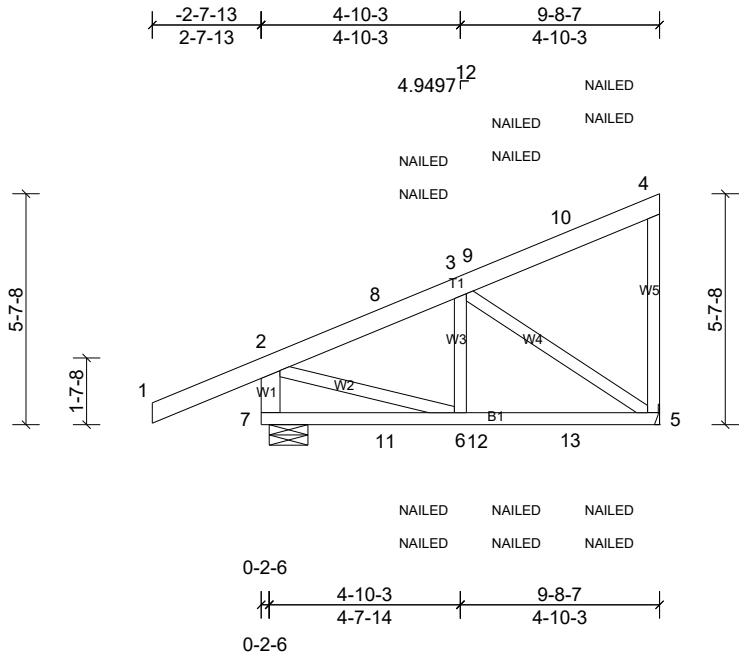
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 5 and 115 lb uplift at joint 4.
- 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

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A28	Diagonal Hip Girder	2	1	



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	0.04	6-7	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.05	5-6	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.30	Horz(CT)	-0.01	5	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 74 lb FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 7-2:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

REACTIONS (lb/size) 5=388/ Mechanical, 7=466/0-11-5, (min. 0-1-8)

Max Horiz 7=263 (LC 5)

Max Uplift 5=-432 (LC 5), 7=-420 (LC 4)

Max Grav 5=505 (LC 15), 7=548 (LC 18)

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

TOP CHORD 2-7=-491/380, 2-8=-572/351, 3-8=-489/353

BOT CHORD 6-12=-447/440, 12-13=-447/440, 5-13=-447/440

WEBS 2-6=-311/526, 3-5=-499/486

- 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=25ft; Cat. II; Exp B; 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
 - 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) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 420 lb uplift at joint 7 and 432 lb uplift at joint 5.
 - 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (lb/ft)
- Vert: 1-2=-48, 2-4=-48, 5-7=-16
- Concentrated Loads (lb)
- Vert: 8=51, 9=-4, 10=-107, 11=-4, 12=-19, 13=-36

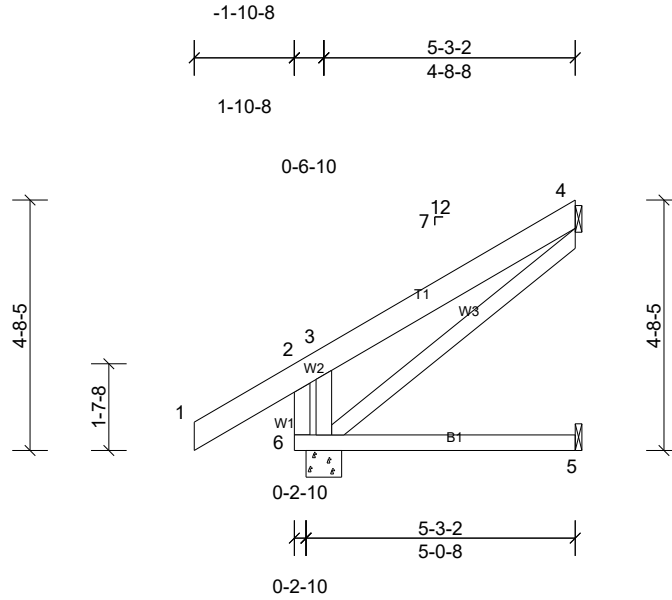
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A29	Jack-Open	4	1	

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.02	5-6	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.05	5-6	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 40 lb FT = 20%

LUMBER

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

8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-3-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(lb/size) 4=108/ Mechanical, 5=36/ Mechanical, 6=279/0-8-0, (min. 0-1-8)
Max Horiz 6=156 (LC 10)
Max Uplift 4=-148 (LC 10), 6=-56 (LC 10)
Max Grav 4=142 (LC 17), 5=72 (LC 3), 6=279 (LC 1)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-134/303, 3-4=-280/217
WEBS 4-6=-309/353, 3-6=-486/177

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 4 and 56 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.

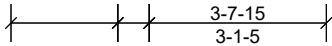
This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A30	Jack-Open	4	1	

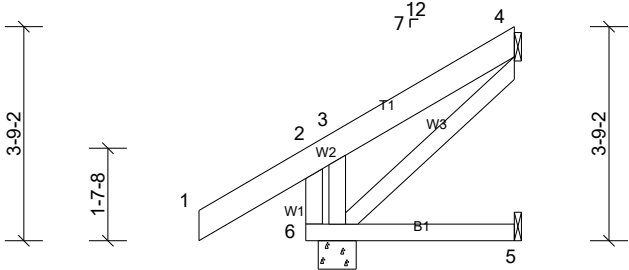
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-1-10-8

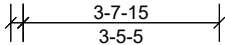


1-10-8

0-6-10



0-2-10



0-2-10

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.01	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	5-6	>999	180		
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-MP							Weight: 30 lb	FT = 20%

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

8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
LOAD CASE(S) Standard

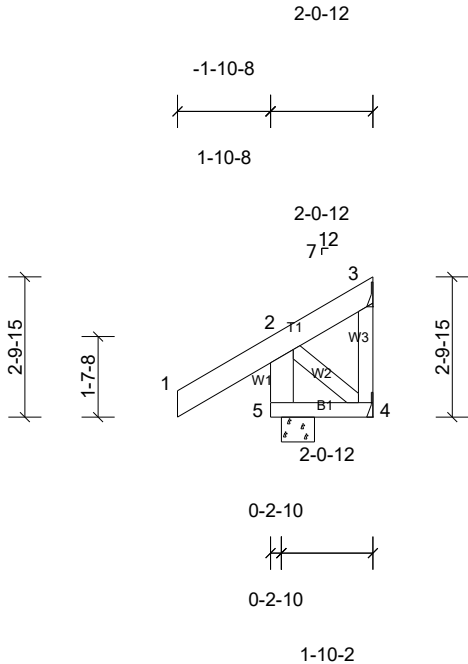
BRACING
 TOP CHORD Structural wood sheathing directly applied or 3-7-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=56/ Mechanical, 5=28/ Mechanical, 6=237/0-8-0, (min. 0-1-8)
 Max Horiz 6=115 (LC 10)
 Max Uplift 4=-109 (LC 10), 6=-52 (LC 10)
 Max Grav 4=87 (LC 17), 5=55 (LC 3), 6=237 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-6=-228/461, 2-3=-87/269
 WEBS 3-6=-295/0

- 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=25ft; Cat. II; Exp B; 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) 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) Refer to girder(s) for truss to truss connections.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 4 and 52 lb uplift at joint 6.
 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.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A31	Jack-Open Structural Gable	6	1	



Loading	(psf)	Spacing	1-7-3	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	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4-5	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							
										Weight: 22 lb	FT = 20%

- LUMBER**
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except* 5-2:2x6 SP No.2
- 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

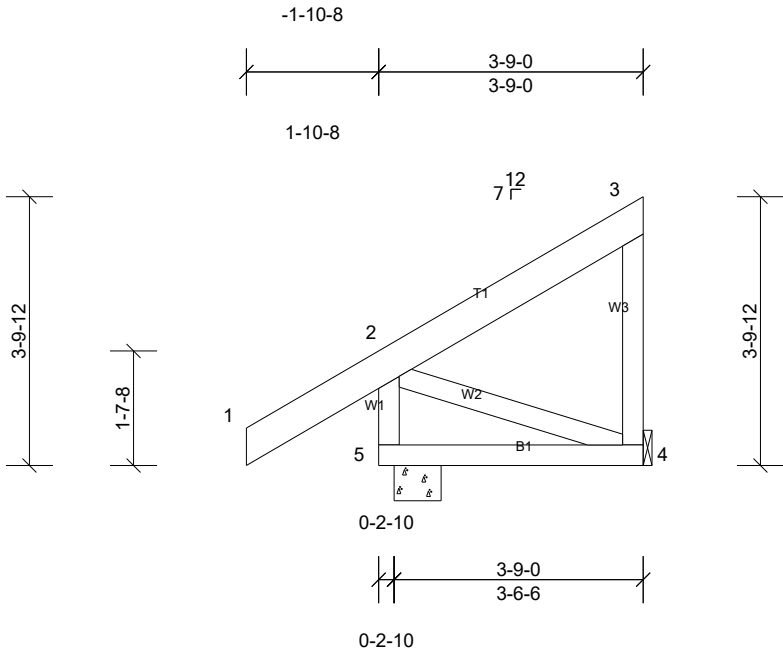
- BRACING**
 TOP CHORD Structural wood sheathing directly applied or 2-0-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- LOAD CASE(S)** Standard

- REACTIONS** (lb/size) 3=-22/ Mechanical, 4=13/ Mechanical, 5=218/0-8-0, (min. 0-1-8)
 Max Horiz 5=147 (LC 9)
 Max Uplift 3=-49 (LC 21), 4=-59 (LC 9), 5=-95 (LC 10)
 Max Grav 3=35 (LC 6), 4=51 (LC 8), 5=218 (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=25ft; Cat. II; Exp B; 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 studs spaced at 2-0-0 oc.
 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) Refer to girder(s) for truss to truss connections.
 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 3, 95 lb uplift at joint 5 and 59 lb uplift at joint 4.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	A32	Jack-Closed	3	1	

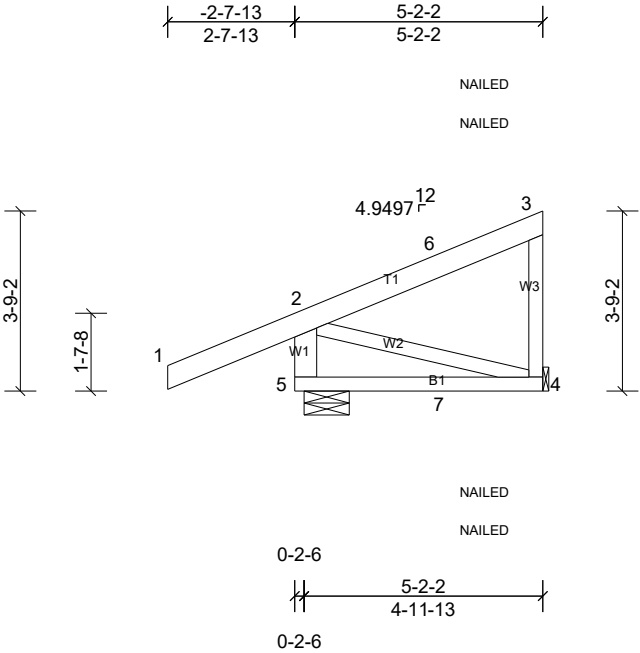


Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.01	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 32 lb	FT = 20%

- LUMBER**
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
- BRACING**
 TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (lb/size) 4=82/ Mechanical, 5=236/0-8-0, (min. 0-1-8)
 Max Horiz 5=162 (LC 7)
 Max Uplift 4=-77 (LC 7), 5=-85 (LC 10)
 Max Grav 4=125 (LC 17), 5=236 (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=25ft; Cat. II; Exp B; 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) 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) Refer to girder(s) for truss to truss connections.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint 5 and 77 lb uplift at joint 4.
 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	Job Reference (optional)
24091249	A33	Diagonal Hip Girder	1	1	



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	0.05	4-5	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.05	4-5	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 42 lb FT = 20%

- LUMBER**
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except* 5-2:2x6 SP No.2

1) Dead + Roof Live (balanced): Lumber Increase=1.15,
 Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-2=-48, 2-3=-48, 4-5=-16
 Concentrated Loads (lb)
 Vert: 6=51, 7=-4
- BRACING**
 TOP CHORD Structural wood sheathing directly applied or 5-2-2 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
- REACTIONS** (lb/size) 4=85/ Mechanical, 5=313/0-11-5, (min. 0-1-8)
 Max Horiz 5=175 (LC 5)
 Max Uplift 4=-173 (LC 5), 5=-239 (LC 4)
 Max Grav 4=151 (LC 15), 5=313 (LC 1)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-271/198

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 239 lb uplift at joint 5 and 173 lb uplift at joint 4.
 - 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.
 - "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

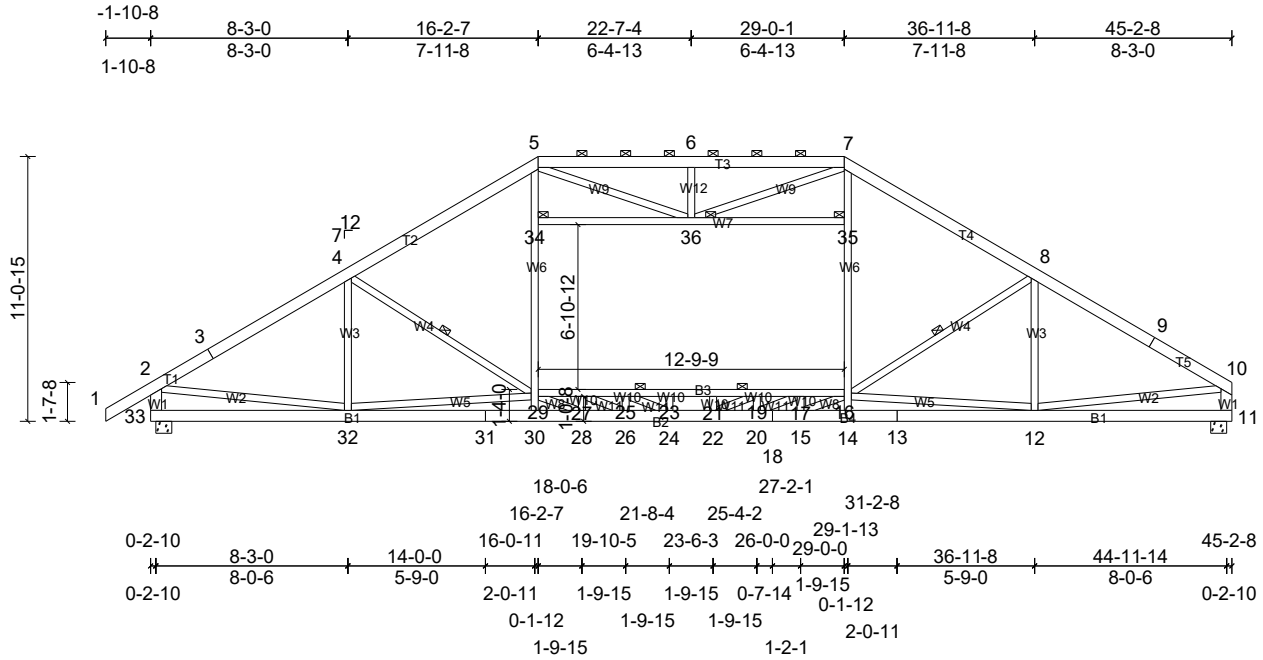
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B1	Attic	11	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:04

Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	0.13	30-32	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.23	21-23	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.04	11	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.06	16-29	>999	360	Weight: 433 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 29-16:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 30-5,14-7,34-35:2x4
SP No.2, 33-2,11-10:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or
4-5-2 oc purlins, except end verticals, and
2-0-0 oc purlins (4-8-1 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc
bracing.
WEBS 1 Row at midpt 8-16, 4-29
JOINTS 1 Brace at Jt(s): 34,
35, 36

REACTIONS (lb/size) 11=1583/0-8-0, (min. 0-2-0),
33=1689/0-8-0, (min. 0-2-2)
Max Horiz 33=338 (LC 7)
Max Uplift 11=-262 (LC 11), 33=-322 (LC 10)
Max Grav 11=1712 (LC 2), 33=1800 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.
TOP CHORD 2-3=-2440/569, 3-4=-2352/604,
4-5=-2428/596, 5-6=-2357/819,
6-7=-2357/819, 7-8=-2430/598,
8-9=-2370/609, 9-10=-2447/585,
2-33=-1723/574, 10-11=-1635/457
BOT CHORD 32-33=-332/494, 31-32=-724/1346,
30-31=-724/1346, 28-30=-793/1351,
26-28=-495/1877, 24-26=-190/2279,
22-24=0/2426, 20-22=-25/2198,
18-20=-287/1773, 15-18=-287/1773,
14-15=-589/1370, 13-14=-520/1364,
12-13=-520/1364, 27-29=-408/760,
25-27=-364/405, 23-25=-664/91,
21-23=-664/91, 19-21=-664/91,
17-19=-482/399, 16-17=-525/749

WEBS 4-32=-310/138, 29-30=0/778, 14-16=0/787,
5-34=0/801, 14-16=0/259, 16-35=0/787,
7-35=0/810, 8-12=-324/145, 6-36=-311/251,
5-36=-327/544, 7-36=-327/543,
27-28=-501/11, 25-26=-356/87,
19-20=-354/89, 15-17=-500/11,
28-29=-13/951, 26-27=-49/748,
24-25=-253/563, 15-16=-16/948,
17-20=-48/742, 19-22=-259/559,
12-16=-289/1335, 8-16=-360/385,
29-32=-218/1255, 4-29=-339/372,
2-32=-273/1796, 10-12=-316/1841

- 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=25ft; Cat.
II; Exp B; 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) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 5x5 (≠) MT20 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
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). 34-36, 35-36
 - 8) Bottom chord live load (40.0 psf) and additional bottom
chord dead load (0.0 psf) applied only to room. 27-29,
25-27, 23-25, 21-23, 19-21, 17-19, 16-17
 - 9) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 322 lb uplift at joint
33 and 262 lb uplift at joint 11.
 - 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

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

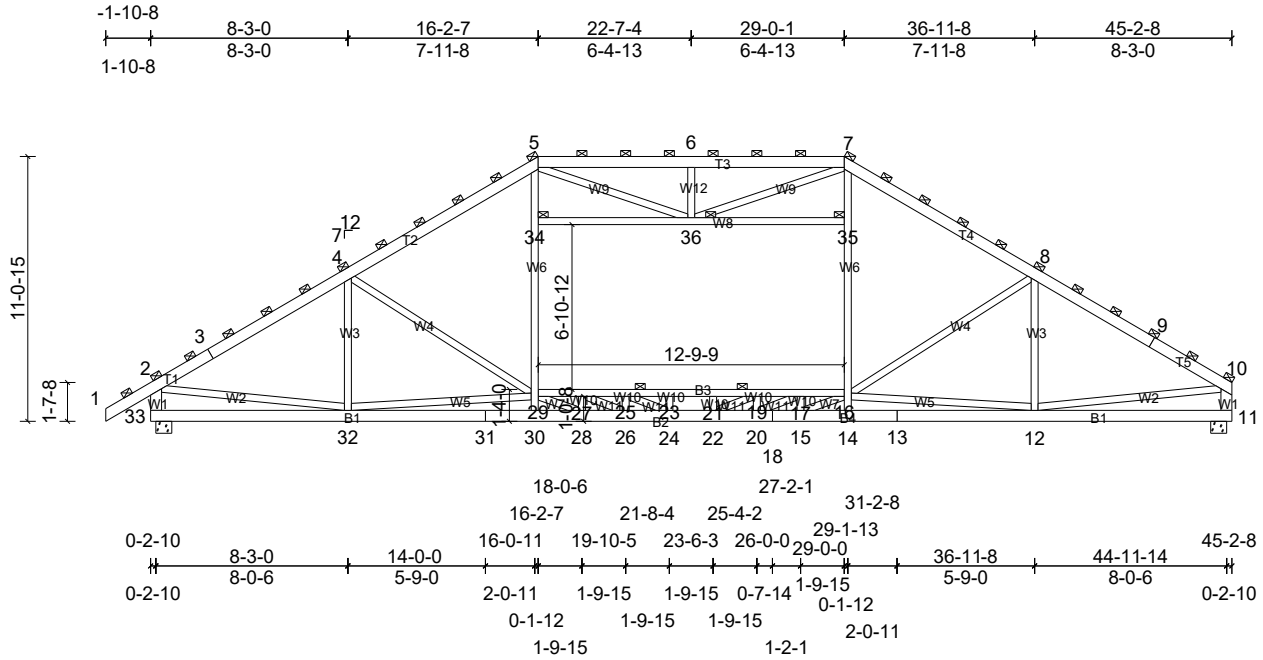


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B1A	Attic	2	2	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:04
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Page: 1



Loading	(psf)	Spacing	3-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	0.12	30-32	>999	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.22	21-23	>999	180	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.04	11	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.05	16-29	>999	360	Weight: 866 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 29-16:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 30-5,14-7,34-35:2x4
SP No.2, 33-2,11-10:2x6 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, Except:
6-0-0 oc bracing:
25-27,23-25,21-23,19-21,17-19.

JOINTS
1 Brace at Jt(s): 7,
34, 35, 2, 10, 36, 5

REACTIONS (lb/size) 11=2971/0-8-0, (min. 0-1-14),
33=3169/0-8-0, (min. 0-2-0)
Max Horiz 33=634 (LC 7)
Max Uplift 11=-492 (LC 11), 33=-604 (LC 10)
Max Grav 11=3212 (LC 2), 33=3377 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.
TOP CHORD 2-3=-4578/1068, 3-4=-4414/1134,
4-5=-4555/1118, 5-6=-4422/1536,
6-7=-4422/1536, 7-8=-4560/1122,
8-9=-4446/1143, 9-10=-4592/1098,
2-33=-3233/1076, 10-11=-3068/857
BOT CHORD 32-33=-624/927, 31-32=-1359/2526,
30-31=-1359/2526, 28-30=-1488/2535,
26-28=-928/3522, 24-26=-356/4276,
22-24=0/4553, 20-22=-46/4124,
18-20=-538/3327, 15-18=-538/3327,
14-15=-1104/2570, 13-14=-976/2559,
12-13=-976/2559, 11-12=-161/430,
27-29=-765/1425, 25-27=-683/760,
23-25=-1247/171, 21-23=-1247/171,
19-21=-1247/171, 17-19=-905/748,
16-17=-986/1406

WEBS
4-32=-582/258, 29-30=0/486, 29-34=0/1460,
5-34=0/1504, 14-16=0/486, 16-35=0/1476,
7-35=0/1520, 8-12=-609/272, 6-36=-583/471,
5-36=-614/1020, 7-36=-613/1018,
27-28=-940/20, 25-26=-668/163,
23-24=-277/25, 21-22=-276/26,
19-20=-665/168, 15-17=-938/20,
28-29=-24/1784, 26-27=-93/1403,
24-25=-474/1056, 15-16=-30/1779,
17-20=-91/1392, 19-22=-487/1049,
12-16=-543/2504, 8-16=-676/722,
29-32=-408/2355, 4-29=-636/698,
2-32=-512/3370, 10-12=-593/3454

NOTES

- 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: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust)
Vasd=123mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- Provide adequate drainage to prevent water ponding.
- All plates are 5x5 (=) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 34-36, 35-36

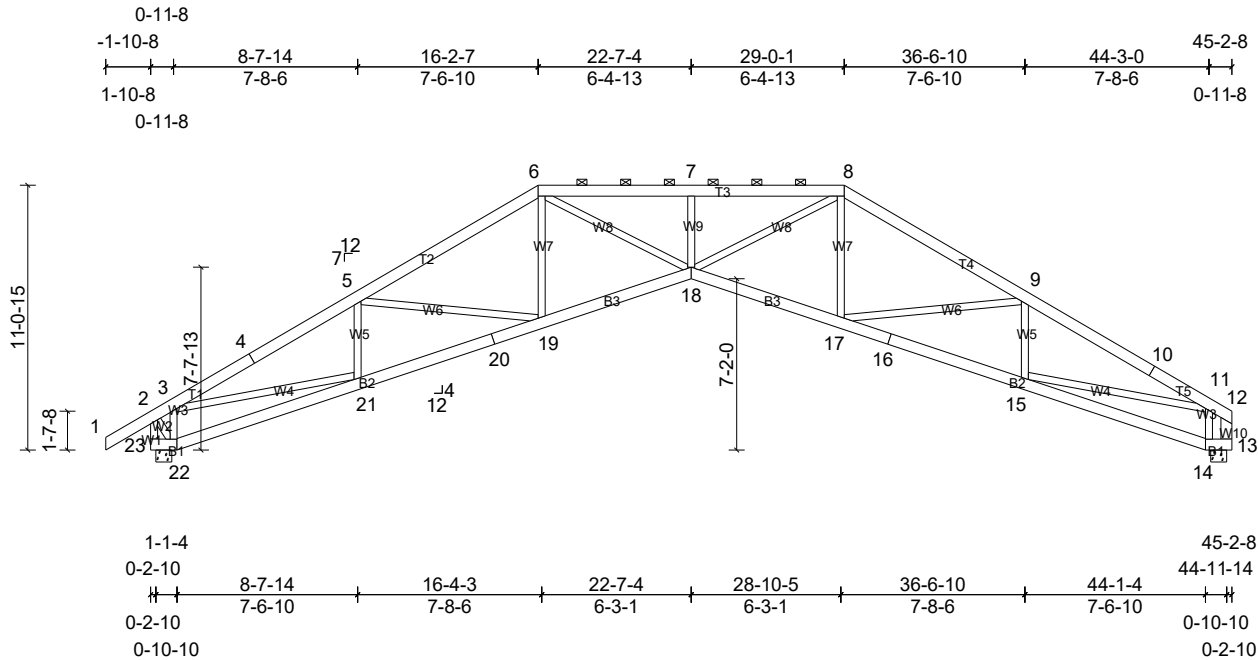
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 27-29, 25-27, 23-25, 21-23, 19-21, 17-19, 16-17
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 604 lb uplift at joint 33 and 492 lb uplift at joint 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.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B2	Piggyback Base	3	1	



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.27	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.54	18	>964	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.41	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 338 lb	FT = 20%

- LUMBER**

TOP CHORD 2x6 SP No.2

BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.3 *Except* 21-3,15-11:2x4 SP No.2, 13-12:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-1 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-13 max.): 6-8.

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

REACTIONS All bearings 0-8-0.

(lb) - Max Horiz 23=337 (LC 7)

Max Uplift All uplift 100 (lb) or less at joint(s) except 13=1709 (LC 1), 14=719 (LC 11), 22=949 (LC 10), 23=2248 (LC 1)

Max Grav All reactions 250 (lb) or less at joint (s) except 13=357 (LC 11), 14=3120 (LC 1), 22=3802 (LC 1), 23=648 (LC 7)

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

TOP CHORD 2-3=-378/1345, 3-4=-2182/742, 4-5=-2075/775, 5-6=-2518/867, 6-7=-3731/1215, 7-8=-3731/1215, 8-9=-2569/882, 9-10=-2244/825, 10-11=-2355/792, 11-12=-326/962, 2-23=-613/1991, 12-13=-473/1129

BOT CHORD 22-23=-330/283, 21-22=-1239/415, 20-21=-551/1872, 19-20=-530/1897, 18-19=-555/2208, 17-18=-429/2256, 16-17=-556/2053, 15-16=-577/2029, 14-15=-690/255, 13-14=-435/144

WEBS 3-22=-1940/715, 3-21=-882/2959, 5-21=-569/288, 5-19=-198/453, 6-18=-453/1864, 7-18=-299/256, 8-18=-614/1812, 8-17=-79/260, 9-17=-309/362, 9-15=-488/265, 11-15=-772/2582, 11-14=-2235/946, 2-22=-1457/528
- 2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2248 lb uplift at joint 23, 948 lb uplift at joint 22, 718 lb uplift at joint 14 and 1709 lb uplift at joint 13.

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.

9) 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

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

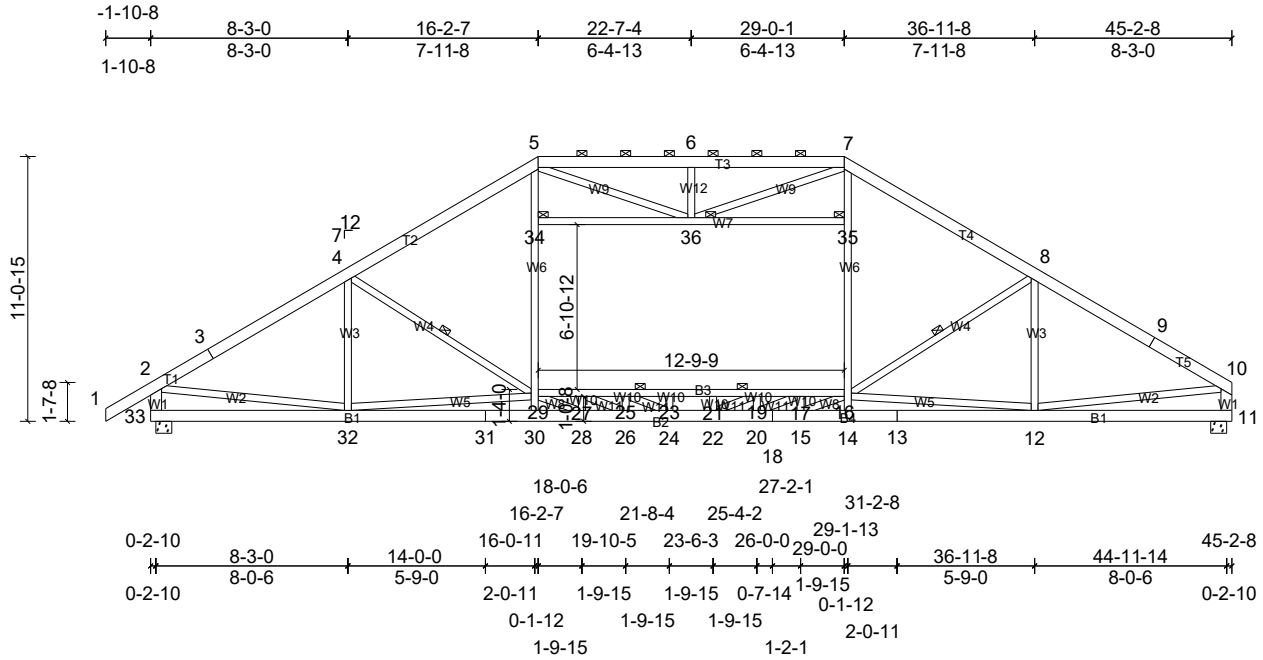
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B3	Attic	2	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:06

Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	0.13	30-32	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.23	21-23	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.06	16-29	>999	360	Weight: 433 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 29-16:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 30-5,14-7,34-35:2x4
SP No.2, 33-2,11-10:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or
4-5-2 oc purlins, except end verticals, and
2-0-0 oc purlins (4-8-1 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc
bracing.
WEBS 1 Row at midpt 4-29, 8-16
JOINTS 1 Brace at Jt(s): 34,
35, 36

REACTIONS (lb/size) 11=1583/0-8-0, (min. 0-2-0),
33=1689/0-8-0, (min. 0-2-2)
Max Horiz 33=338 (LC 7)
Max Uplift 11=-262 (LC 11), 33=-322 (LC 10)
Max Grav 11=1712 (LC 2), 33=1800 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.
TOP CHORD 2-3=-2440/569, 3-4=-2352/604,
4-5=-2428/596, 5-6=-2357/819,
6-7=-2357/819, 7-8=-2430/598,
8-9=-2370/609, 9-10=-2447/585,
2-33=-1723/574, 10-11=-1635/457
BOT CHORD 32-33=-332/494, 31-32=-724/1346,
30-31=-724/1346, 28-30=-793/1351,
26-28=-495/1877, 24-26=-190/2279,
22-24=0/2426, 20-22=-25/2198,
18-20=-287/1773, 15-18=-287/1773,
14-15=-589/1370, 13-14=-520/1364,
12-13=-520/1364, 27-29=-408/760,
25-27=-364/405, 23-25=-664/91,
21-23=-664/91, 19-21=-664/91,
17-19=-482/399, 16-17=-525/749

WEBS 4-32=-310/138, 29-30=0/778, 5-34=0/801, 14-16=0/259, 16-35=0/787,
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5-36=-327/544, 7-36=-327/543,
27-28=-501/11, 25-26=-356/87,
19-20=-354/89, 15-17=-500/11,
28-29=-13/951, 26-27=-49/748,
24-25=-253/563, 15-16=-16/948,
17-20=-48/742, 19-22=-259/559,
10-12=-316/1841, 2-32=-273/1796,
29-32=-218/1255, 4-29=-339/372,
12-16=-289/1335, 8-16=-360/385

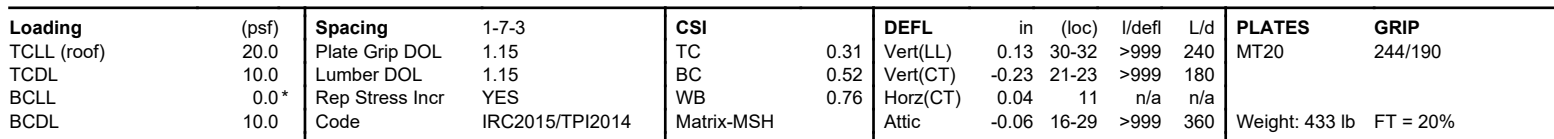
- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=155mph (3-second gust)
Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end 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) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 5x5 (≠) MT20 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 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). 34-36, 35-36
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 27-29, 25-27, 23-25, 21-23, 19-21, 17-19, 16-17
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 322 lb uplift at joint 33 and 262 lb uplift at joint 11.
 - 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

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:07 Page: 1
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This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

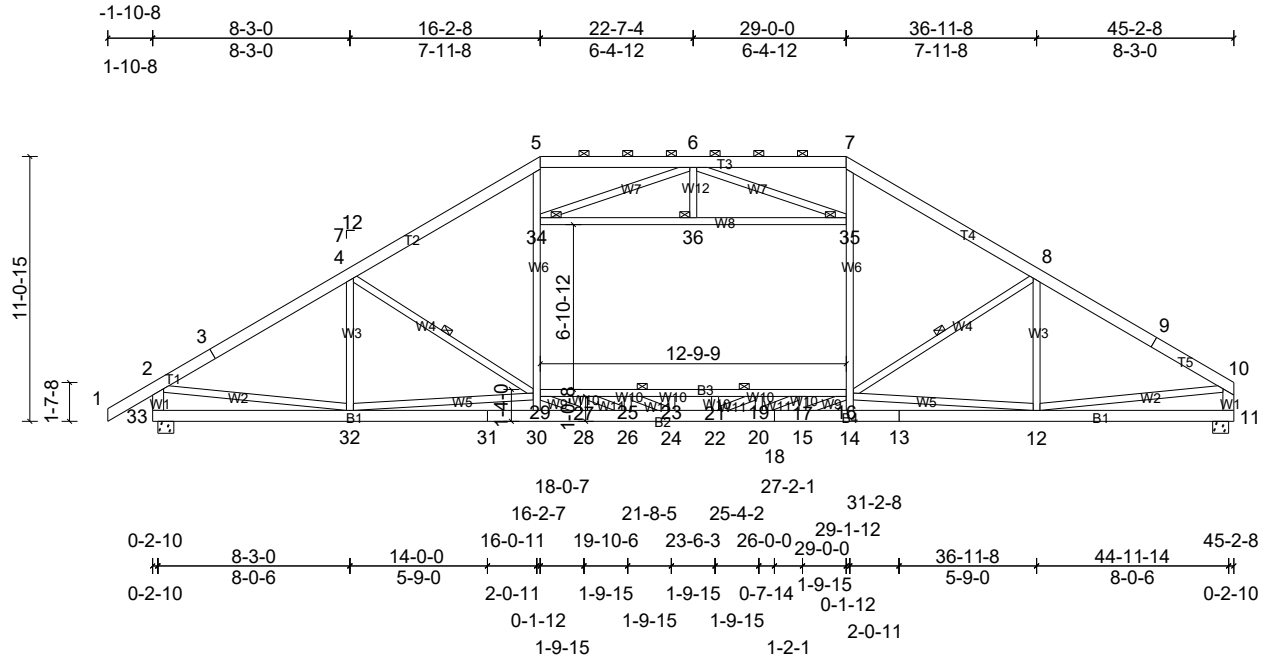


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B5	Attic	1	1	

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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.12	25-27	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.23	21-23	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.06	16-29	>999	360	Weight: 433 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 29-16:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 5-30,7-14,34-35:2x4
SP No.2, 33-2,11-10:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or
4-4-15 oc purlins, except end verticals, and
2-0-0 oc purlins (5-2-1 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc
bracing.
WEBS 1 Row at midpt 8-16, 4-29
JOINTS 1 Brace at Jt(s): 34,
35, 36

REACTIONS (lb/size) 11=1583/0-8-0, (min. 0-2-0),
33=1689/0-8-0, (min. 0-2-2)
Max Horiz 33=338 (LC 9)
Max Uplift 11=-262 (LC 11), 33=-322 (LC 10)
Max Grav 11=1712 (LC 2), 33=1800 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.
TOP CHORD 2-3=-2440/569, 3-4=-2353/604,
4-5=-2428/596, 5-6=-1957/579,
6-7=-1957/579, 7-8=-2430/598,
8-9=-2370/609, 9-10=-2448/586,
2-33=-1723/574, 10-11=-1635/457
BOT CHORD 32-33=-333/493, 31-32=-721/1341,
30-31=-721/1341, 28-30=-789/1343,
26-28=-490/1875, 24-26=-185/2276,
22-24=0/2420, 20-22=-21/2191,
18-20=-282/1766, 15-18=-282/1766,
14-15=-584/1362, 13-14=-517/1358,
12-13=-517/1358, 27-29=-413/768,
25-27=-369/414, 23-25=-661/99,
21-23=-661/99, 19-21=-661/99,
17-19=-488/407, 16-17=-531/757

WEBS 4-32=-311/138, 29-30=0/259, 29-34=0/779,
5-34=-67/911, 14-16=0/259, 16-35=0/788,
7-35=-72/917, 8-12=-325/146,
34-36=-285/453, 35-36=-285/453,
27-28=-501/11, 25-26=-356/87,
19-20=-354/89, 15-17=-500/11,
28-29=-13/951, 26-27=-49/748,
24-25=-253/563, 15-16=-16/948,
17-20=-49/742, 19-22=-259/559,
12-16=-292/1337, 8-16=-361/385,
29-32=-218/1258, 4-29=-341/372,
2-32=-273/1798, 10-12=-316/1842,
6-35=-571/331, 6-34=-572/332

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=25ft; Cat. II; Exp B; 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are 5x5 (=) MT20 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 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). 34-36, 35-36
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 27-29, 25-27, 23-25, 21-23, 19-21, 17-19, 16-17
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 322 lb uplift at joint 33 and 262 lb uplift at joint 11.
- 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



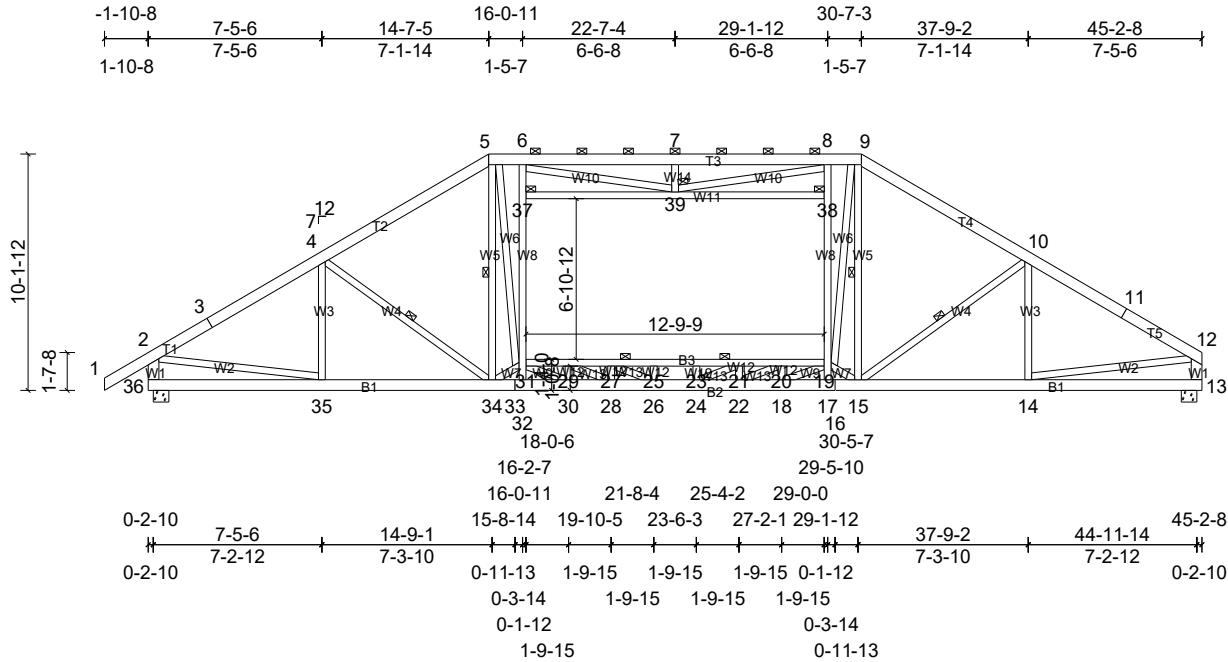
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B6	Attic	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:08

Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.15	24-26	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.28	23-25	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.07	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.06	19-31	>999	360	Weight: 457 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 31-19:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 6-32,8-17,37-38:2x4
SP No.2, 36-2,13-12:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or
4-6-13 oc purlins, except end verticals, and
2-0-0 oc purlins (4-2-12 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 5-7-5 oc
bracing.
WEBS 1 Row at midpt 4-34, 5-34, 9-15, 10-15
JOINTS 1 Brace at Jt(s): 37,
38, 39

REACTIONS (lb/size) 13=1583/0-8-0, (min. 0-2-0),
36=1689/0-8-0, (min. 0-2-2)
Max Horiz 36=312 (LC 9)
Max Uplift 13=-246 (LC 11), 36=-306 (LC 10)
Max Grav 13=1712 (LC 2), 36=1800 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.
TOP CHORD 2-3=-2400/573, 3-4=-2318/604,
4-5=-2356/628, 5-6=-2191/622,
6-7=-2782/1003, 7-8=-2782/1003,
8-9=-2192/623, 9-10=-2361/633,
10-11=-2337/611, 11-12=-2409/591,
12-13=-1637/458
BOT CHORD 35-36=-310/439, 34-35=-377/2019,
33-34=-755/1504, 32-33=-755/1504,
30-32=-802/1513, 28-30=-511/2171,
26-28=-253/2612, 24-26=0/2866,
22-24=-38/2620, 18-22=-283/2183,
17-18=-579/1530, 16-17=-533/1520,
15-16=-533/1520, 14-15=-390/2019,
29-31=-295/449, 27-29=-597/144,
25-27=-929/0, 23-25=-929/0, 21-23=-929/0,
20-21=-600/146, 19-20=-362/481

WEBS 4-34=-314/284, 5-34=-436/265,
31-37=-553/381, 6-37=-525/390,
19-38=-553/379, 8-38=-526/387,
9-15=-444/308, 10-15=-319/293,
6-39=-448/792, 8-39=-451/791,
29-30=-490/0, 27-28=-335/54,
21-22=-333/56, 18-20=-488/0, 30-31=0/1044,
28-29=-5/702, 26-27=-175/505,
18-19=0/1042, 20-22=-4/700,
21-24=-180/500, 15-19=-228/1126,
9-19=-460/1469, 31-34=-149/1084,
5-31=-427/1478, 2-35=-303/1801,
12-14=-338/1837

- 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=25ft; Cat. II; Exp B; 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) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 5x5 (=) MT20 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 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). 37-39, 38-39
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 29-31, 27-29, 25-27, 23-25, 21-23, 20-21, 19-20
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 306 lb uplift at joint 36 and 246 lb uplift at joint 13.
 - 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



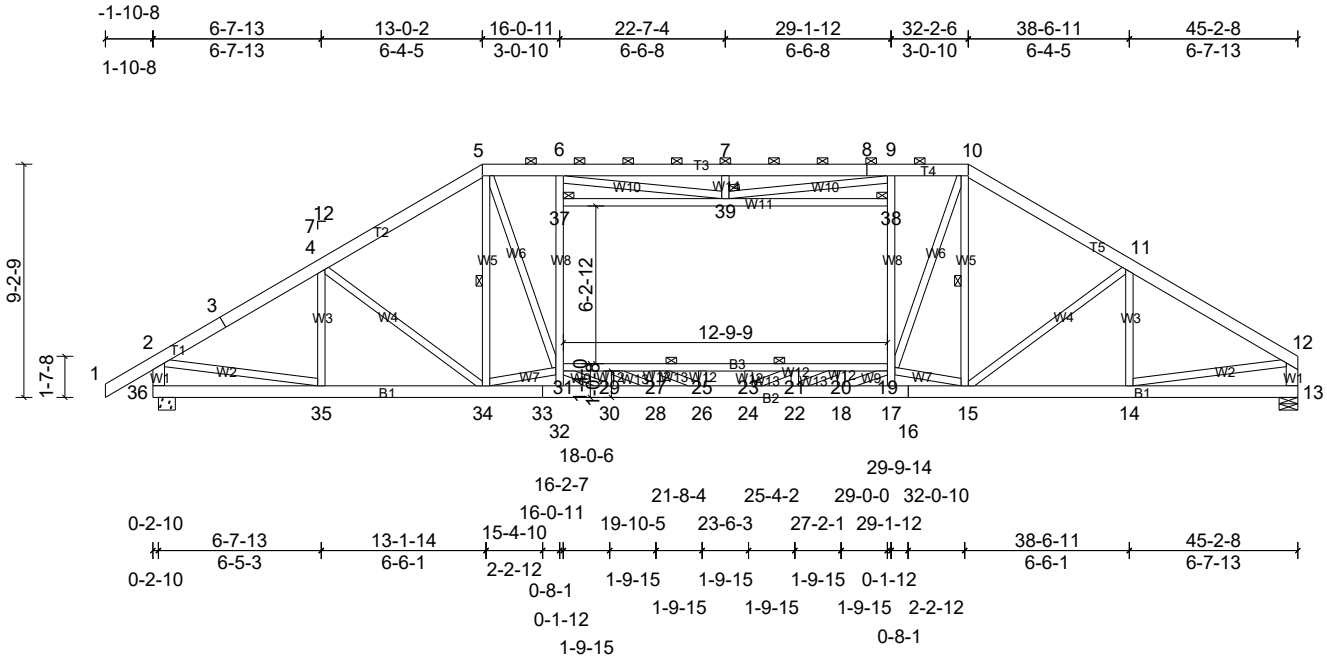
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B7	Attic	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:09

Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.14	23-25	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.26	23-25	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.06	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.05	19-31	>999	360	Weight: 446 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 31-19:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 6-32,9-17,37-38:2x4 SP No.2, 36-2,13-12:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-7-1 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-14 max.): 5-10.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-34, 10-15
JOINTS 1 Brace at Jt(s): 37, 38, 39

REACTIONS (lb/size) 13=1583/0-8-14, (min. 0-2-0), 36=1689/0-8-0, (min. 0-2-2)
Max Horiz 36=285 (LC 7)
Max Uplift 13=-229 (LC 11), 36=-288 (LC 10)
Max Grav 13=1712 (LC 2), 36=1800 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2354/575, 3-4=-2279/603, 4-5=-2374/646, 5-6=-2487/659, 6-7=-3026/1073, 7-8=-3026/1073, 8-9=-3026/1073, 9-10=-2488/660, 10-11=-2381/652, 11-12=-2365/610, 2-36=-1731/576, 12-13=-1643/459, 35-36=-283/377, 34-35=-386/1969, 33-34=-732/1417, 32-33=-732/1417, 30-32=-763/1400, 28-30=-500/2002, 26-28=-263/2452, 24-26=-46/2725, 22-24=-106/2460, 18-22=-315/2014, 17-18=-582/1419, 16-17=-551/1435, 15-16=-551/1435, 14-15=-400/1987, 29-31=-259/709, 27-29=-277/409, 25-27=-509/181, 23-25=-509/181, 21-23=-509/181, 20-21=-364/400, 19-20=-345/728

WEBS 4-35=-278/141, 5-34=-287/192, 31-37=-552/332, 6-37=-521/339, 19-38=-552/331, 9-38=-521/339, 10-15=-284/222, 11-14=-283/148, 12-14=-361/1836, 6-39=-477/790, 9-39=-478/789, 29-30=-491/0, 27-28=-324/37, 21-22=-321/39, 18-20=-489/0, 30-31=0/1063, 28-29=0/698, 26-27=-135/481, 18-19=0/1061, 20-22=0/696, 21-24=-140/475, 2-35=-332/1808, 31-34=-53/1039, 5-31=-302/1431, 15-19=-138/1087, 10-19=-326/1424

- 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=25ft; Cat. II; Exp B; 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) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 5x5 (=) MT20 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 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). 37-39, 38-39
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 29-31, 27-29, 25-27, 23-25, 21-23, 20-21, 19-20
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 288 lb uplift at joint 36 and 229 lb uplift at joint 13.
 - 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

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



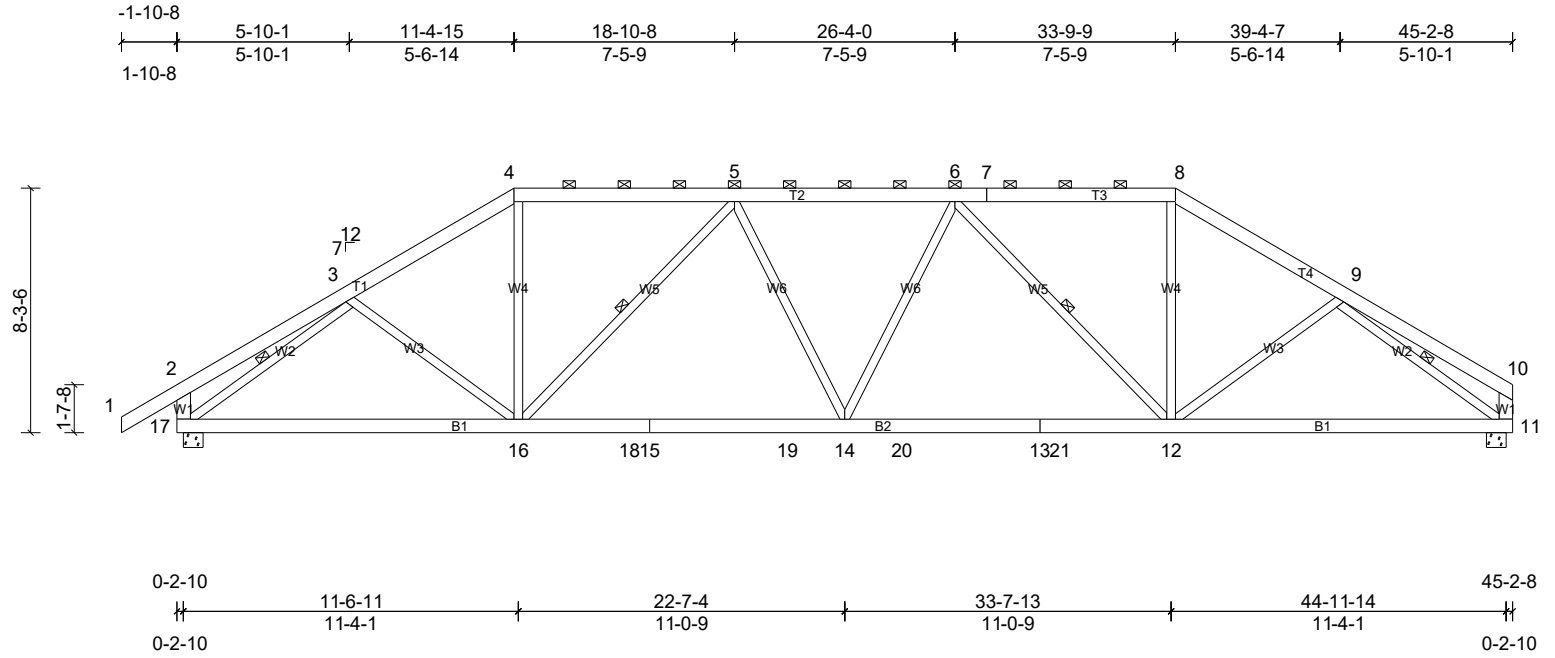
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B8	Hip	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:10

Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.16	14-16	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.28	14-16	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.08	11	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 348 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 17-2,11-10:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-2-8 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-12 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 9-1-8 oc bracing.
WEBS 1 Row at midpt 5-16, 6-12, 9-11, 3-17

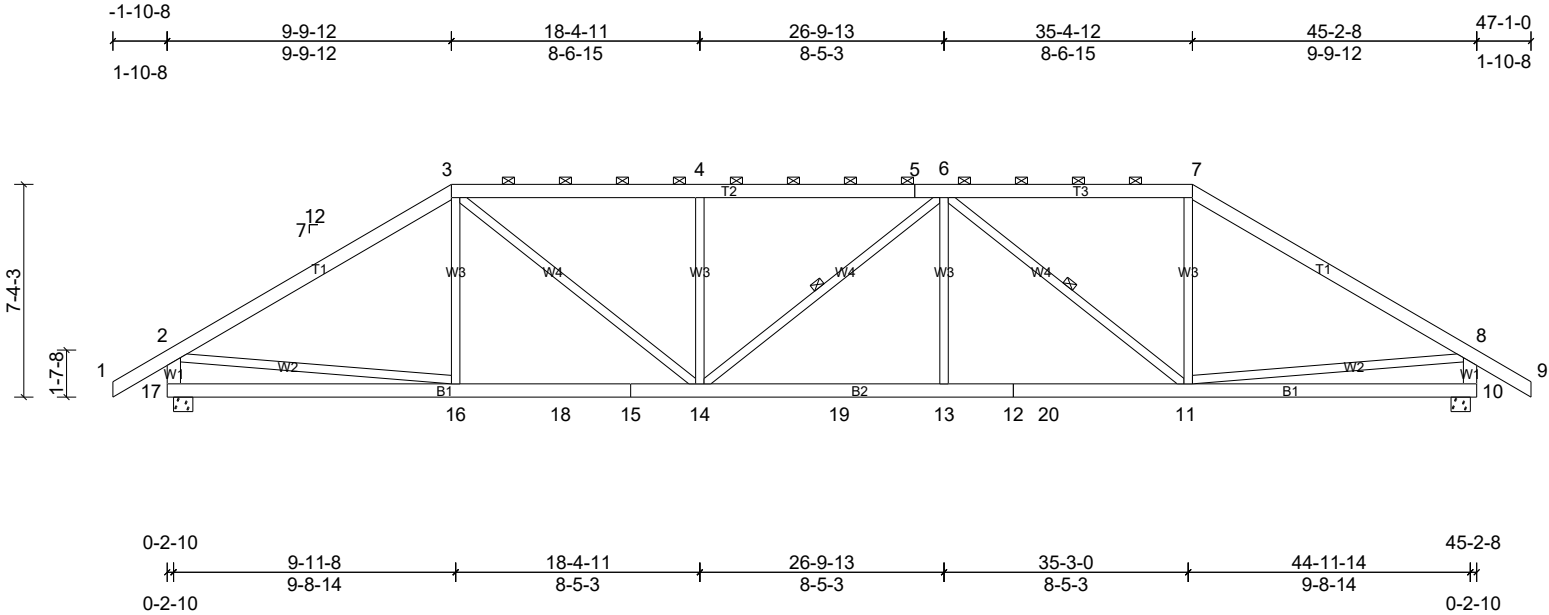
REACTIONS (lb/size) 11=1429/0-8-0, (min. 0-1-11), 17=1534/0-8-0, (min. 0-1-13)
Max Horiz 17=259 (LC 9)
Max Uplift 11=-302 (LC 11), 17=-362 (LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-411/184, 3-4=-1874/793, 4-5=-1571/744, 5-6=-2110/933, 6-7=-1577/748, 7-8=-1577/748, 8-9=-1883/800, 9-10=-342/156, 2-17=-402/296, 10-11=-299/154
BOT CHORD 16-17=-536/1507, 16-18=-643/2025, 15-18=-643/2025, 15-19=-643/2025, 14-19=-643/2025, 14-20=-642/2027, 13-20=-642/2027, 13-21=-642/2027, 12-21=-642/2027, 11-12=-542/1531
WEBS 4-16=-185/654, 5-16=-713/387, 6-12=-710/387, 8-12=-192/662, 9-11=-1694/678, 3-17=-1655/637

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=25ft; Cat. II; Exp B; 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) 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.

- * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 302 lb uplift at joint 11 and 362 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.
 - 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)
24091249	B9	Hip	1	1	



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	0.14	13-14	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.25	13-14	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.06	10	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 347 lb FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2

BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.3 *Except* 17-2,10-8:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-9-2 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-6 max.): 3-7.

BOT CHORD Rigid ceiling directly applied or 8-8-13 oc bracing.

WEBS 1 Row at midpt 6-14, 6-11

REACTIONS (lb/size) 10=1532/0-8-0, (min. 0-1-13), 17=1532/0-8-0, (min. 0-1-13)

Max Horiz 17=245 (LC 9)

Max Uplift 10=-347 (LC 6), 17=-347 (LC 7)

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

TOP CHORD 2-3=-1976/774, 3-4=-2278/1034, 4-5=-2278/1034, 5-6=-2278/1034, 6-7=-1612/756, 7-8=-1977/774, 2-17=-1453/697, 8-10=-1451/697

BOT CHORD 16-17=-316/560, 16-18=-532/1590, 15-18=-532/1590, 14-15=-532/1590, 14-19=-710/2312, 13-19=-710/2312, 12-13=-710/2312, 12-20=-710/2312, 11-20=-710/2312, 10-11=-235/520

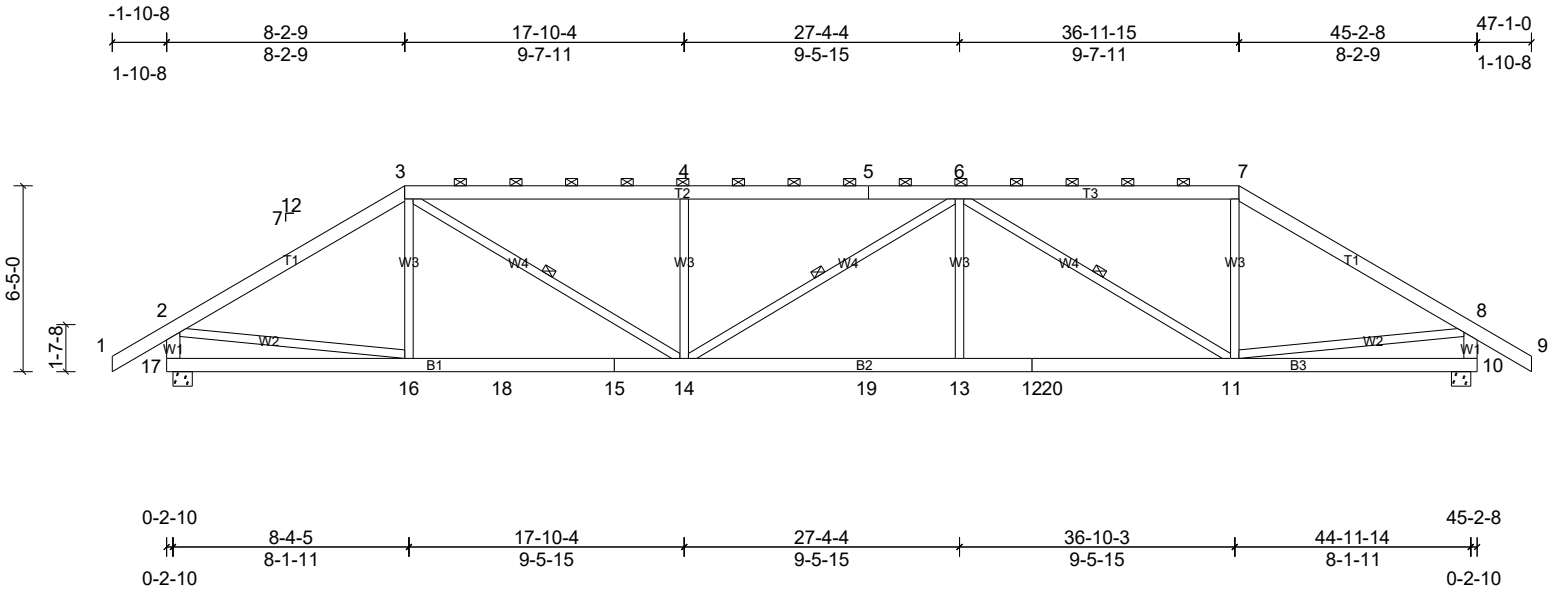
WEBS 3-14=-453/949, 4-14=-435/321, 6-13=0/325, 6-11=-981/448, 7-11=-129/630, 8-11=-468/1249, 2-16=-458/1266

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 5x8 (=) MT20 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 3-06-00 tall by 2-00-00 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 347 lb uplift at joint 17 and 347 lb uplift at joint 10.
- 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) 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)
24091249	B10	Hip	1	1	



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	0.19	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.32	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 337 lb	FT = 20%

LUMBER
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except* 17-2,10-8:2x6 SP No.2

BRACING
 TOP CHORD Structural wood sheathing directly applied or 4-11-12 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-3 max.): 3-7.
 BOT CHORD Rigid ceiling directly applied or 7-10-7 oc bracing.
 WEBS 1 Row at midpt 3-14, 6-14, 6-11

REACTIONS (lb/size) 10=1532/0-8-0, (min. 0-1-13), 17=1532/0-8-0, (min. 0-1-13)
 Max Horiz 17=218 (LC 9)
 Max Uplift 10=-390 (LC 6), 17=-390 (LC 7)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1969/776, 3-4=-2628/1160, 4-5=-2628/1160, 5-6=-2628/1160, 6-7=-1635/748, 7-8=-1972/778, 2-17=-1467/693, 8-10=-1465/693
 BOT CHORD 16-17=-241/405, 16-18=-568/1603, 15-18=-568/1603, 14-15=-568/1603, 14-19=-883/2628, 13-19=-883/2628, 12-13=-883/2628, 12-20=-883/2628, 11-20=-883/2628, 10-11=-149/370
 WEBS 3-14=-556/1254, 4-14=-488/355, 6-13=0/334, 6-11=-1255/548, 7-11=-128/626, 2-16=-479/1372, 8-11=-490/1373

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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) 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 3-06-00 tall by 2-00-00 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 390 lb uplift at joint 17 and 390 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.
 - 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

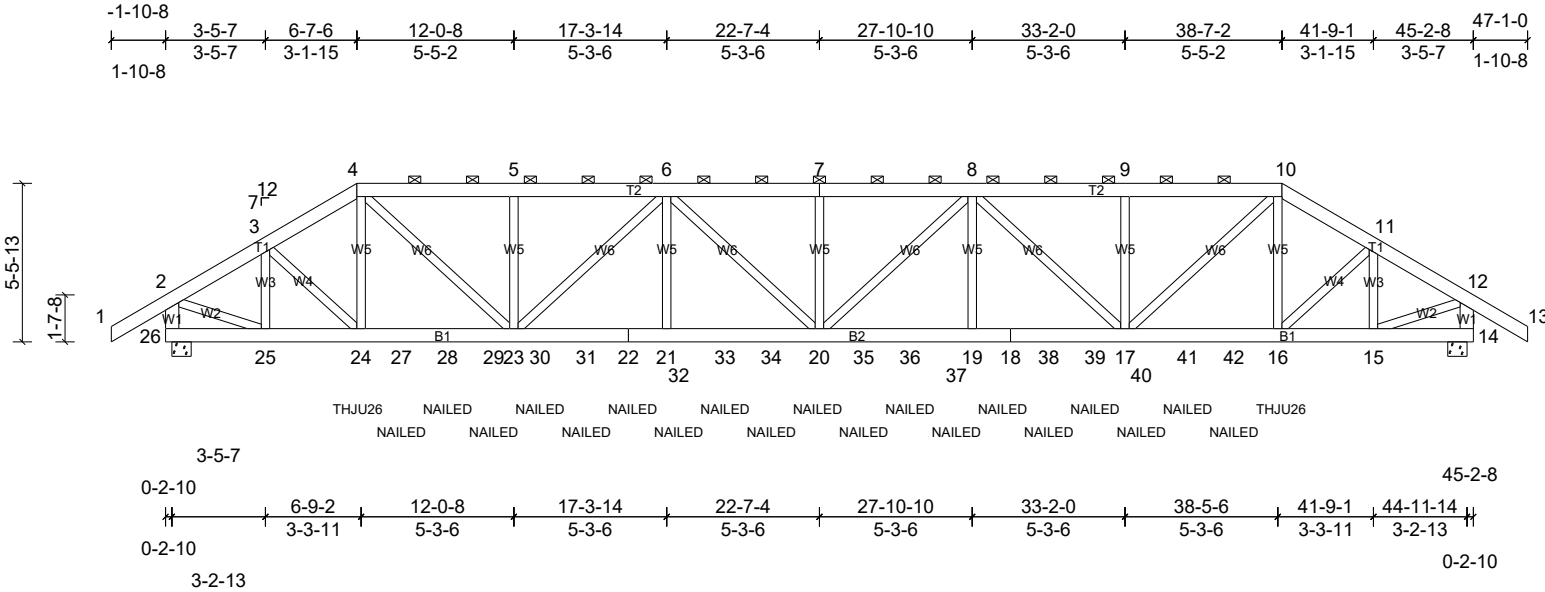
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B11	Hip Girder	1	3	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:11

Page: 1

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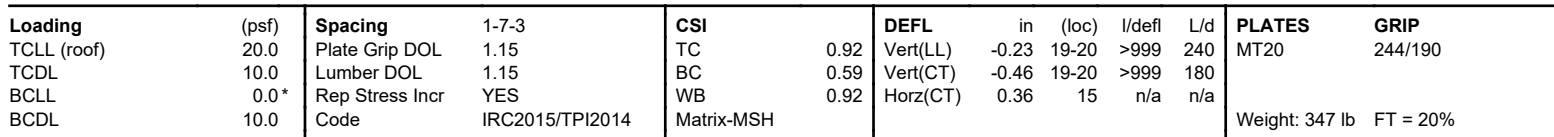
Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	0.27	20-21	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.31	19-20	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.08	14	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							

LUMBER		WEBS	3-25=-1536/838, 3-24=-851/1471, 4-24=-199/357, 4-23=-1931/3678, 6-23=-2157/1139, 6-21=-325/809, 6-20=-401/740, 8-20=-405/745, 8-19=-324/809, 8-17=-2162/1140, 10-17=-1938/3689, 10-16=-192/344, 11-16=-847/1464, 11-15=-1529/833, 2-25=-1888/3696, 12-15=-1878/3685	11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 12) Use Simpson Strong-Tie THJU26 (SGL & SGL RC 2-PLY) or equivalent at 6-7-12 from the left end to connect truss(es) to back face of bottom chord. 13) Use Simpson Strong-Tie THJU26 (SGL & SGL LC 2-PLY) or equivalent at 38-6-12 from the left end to connect truss(es) to back face of bottom chord. 14) Fill all nail holes where hanger is in contact with lumber. 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
BRACING		NOTES	1) 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 0-9-0 oc. Bottom chords connected as follows: 2x6 - 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; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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) Provide adequate drainage to prevent water ponding. 6) All plates are 5x8 (=) MT20 unless otherwise indicated. 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 8) * 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. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1992 lb uplift at joint 26 and 1986 lb uplift at joint 14. 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 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-2=-48, 2-4=-48, 4-10=-48, 10-12=-48, 12-13=-48, 14-26=-16 Concentrated Loads (lb) Vert: 22=-170, 24=-477, 20=-170, 16=-477, 18=-170, 27=-170, 28=-170, 29=-170, 30=-170, 31=-170, 32=-170, 33=-170, 34=-170, 35=-170, 36=-170, 37=-170, 38=-170, 39=-170, 40=-170, 41=-170, 42=-170
REACTIONS	(lb/size)	14=3618/0-8-0, (min. 0-1-8), 26=3625/0-8-0, (min. 0-1-8) Max Horiz 26=192 (LC 7) Max Uplift 14=-1986 (LC 4), 26=-1992 (LC 5) Max Grav 14=3883 (LC 17), 26=3893 (LC 18)		
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD	2-3=-4413/2324, 3-4=-5522/2972, 4-5=-7423/3963, 5-6=-7423/3963, 6-7=-9483/4992, 7-8=-9483/4992, 8-9=-7416/3959, 9-10=-7416/3959, 10-11=-5506/2964, 11-12=-4402/2319, 12-26=-3756/1949, 12-14=-3747/1944			
BOT CHORD	25-26=-305/412, 24-25=-2062/3799, 24-27=-2612/4842, 27-28=-2612/4842, 28-29=-2612/4842, 23-29=-2612/4842, 23-30=-4765/9063, 30-31=-4765/9063, 22-31=-4765/9063, 21-22=-4765/9063, 21-32=-4765/9063, 32-33=-4765/9063, 33-34=-4765/9063, 20-34=-4765/9063, 20-35=-4719/9040, 35-36=-4719/9040, 36-37=-4719/9040, 19-37=-4719/9040, 18-19=-4719/9040, 18-38=-4719/9040, 38-39=-4719/9040, 17-39=-4719/9040, 17-40=-2472/4790, 40-41=-2472/4790, 41-42=-2472/4790, 16-42=-2472/4790, 15-16=-1891/3753, 14-15=-157/322			

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:12 Page: 1
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- 2) Wind: ASCE 7-10; Vult=155mph (3-second gust)
Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1421 lb uplift at joint 25, 797 lb uplift at joint 24, 724 lb uplift at joint 15 and 2150 lb uplift at joint 14.
- 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.
- 9) 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

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

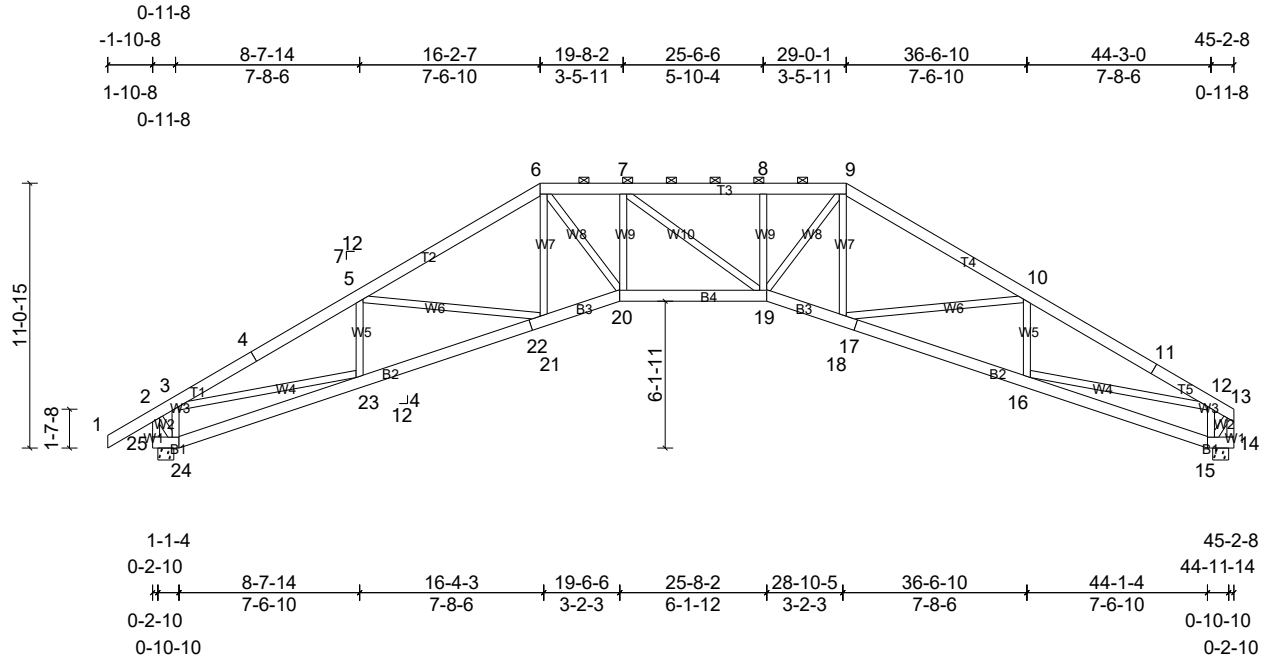


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B13	Piggyback Base	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:13
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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.21	19-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.43	19-20	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.32	15	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 351 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 23-3,16-12:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-4 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-3 max.): 6-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

All bearings 0-8-0.
(lb) - Max Horiz 25=336 (LC 7)
Max Uplift All uplift 100 (lb) or less at joint(s) except 14=-1947 (LC 1), 15=-723 (LC 11), 24=-893 (LC 10), 25=-1790 (LC 1)
Max Grav All reactions 250 (lb) or less at joint (s) except 14=358 (LC 11), 15=3383 (LC 1), 24=3324 (LC 1), 25=543 (LC 7)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-310/1068, 3-4=-2280/767, 4-5=-2175/801, 5-6=-2540/875, 6-7=-2816/1002, 7-8=-2822/1005, 8-9=-2815/1000, 9-10=-2543/875, 10-11=-2183/802, 11-12=-2288/769, 12-13=-360/1084, 2-25=-515/1564, 13-14=-636/1723
BOT CHORD 24-25=-327/282, 23-24=-993/347, 22-23=-559/1984, 21-22=-536/1987, 20-21=-556/2218, 19-20=-665/2822, 18-19=-416/2220, 17-18=-534/1994, 16-17=-557/1992, 15-16=-968/340
WEBS 3-24=-1860/684, 3-23=-840/2812, 5-23=-528/280, 5-21=-189/386, 6-20=-301/1188, 7-20=-315/296, 9-19=-424/1184, 10-18=-310/384, 10-16=-524/279, 12-16=-834/2795, 12-15=-1907/839, 2-24=-1126/436, 13-15=-1094/319

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- Provide adequate drainage to prevent water ponding.
- All plates are 5x5 (=) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1790 lb uplift at joint 25, 892 lb uplift at joint 24, 723 lb uplift at joint 15 and 1947 lb uplift at joint 14.
- 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

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

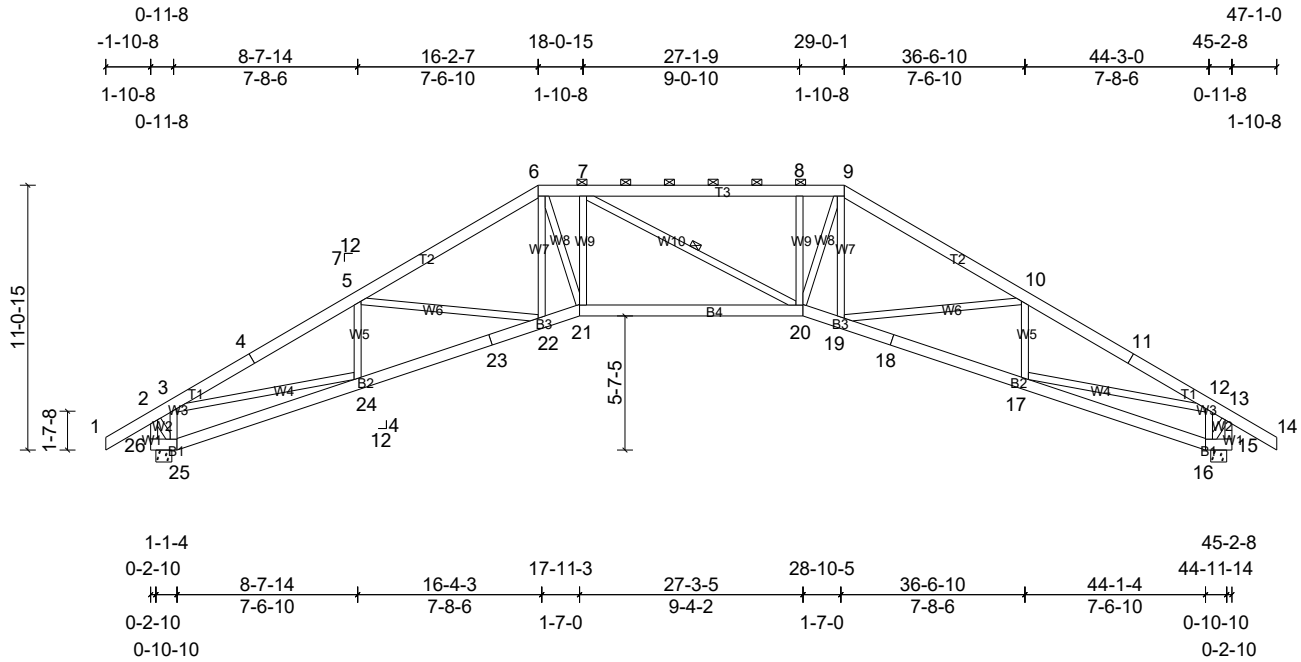


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B14	Hip	1	1	

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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.20	20-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.44	20-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.30	16	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 361 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 24-3,17-12:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-2-3 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-8 max.): 6-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-20

REACTIONS All bearings 0-8-0.
(lb) - Max Horiz 26=347 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) except 15=-1668 (LC 1), 16=-651 (LC 11), 25=-852 (LC 10), 26=-1654 (LC 1)
Max Grav All reactions 250 (lb) or less at joint (s) except 15=266 (LC 10), 16=3201 (LC 1), 25=3188 (LC 1), 26=510 (LC 7)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-289/984, 3-4=-2316/749, 4-5=-2211/783, 5-6=-2569/823, 6-7=-2503/872, 7-8=-2510/875, 8-9=-2501/868, 9-10=-2568/822, 10-11=-2208/777, 11-12=-2313/743, 12-13=-231/992, 2-26=-483/1494, 13-15=-359/1512
BOT CHORD 25-26=-336/302, 24-25=-919/345, 23-24=-543/1997, 22-23=-526/2021, 21-22=-528/2234, 20-21=-598/2512, 19-20=-282/2233, 18-19=-439/2019, 17-18=-456/1995, 16-17=-926/361
WEBS 3-25=-1861/640, 3-24=-748/2772, 5-24=-523/259, 5-22=-178/379, 6-21=-284/1139, 7-21=-452/419, 8-20=-371/312, 9-20=-450/1136, 10-19=-301/380, 10-17=-524/262, 12-17=-758/2777, 12-16=-1866/639, 2-25=-1024/346, 13-16=-1034/352

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- Provide adequate drainage to prevent water ponding.
- All plates are 5x5 (=) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1654 lb uplift at joint 26, 852 lb uplift at joint 25, 651 lb uplift at joint 16 and 1667 lb uplift at joint 15.
- 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

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



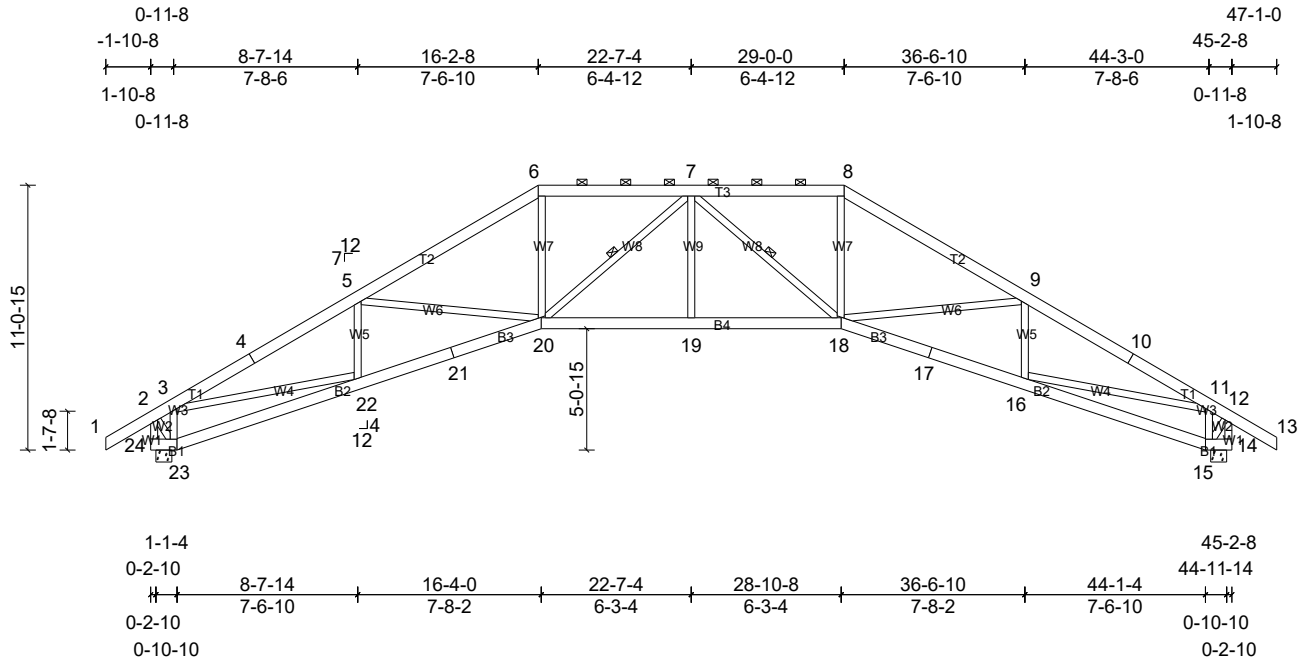
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B15	Hip	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:14

Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.18	19	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.37	19	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.28	15	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 349 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 22-3,16-11:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-2-1 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-12 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-20, 7-18

REACTIONS All bearings 0-8-0.
(lb) - Max Horiz 24=348 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) except 14=-1578 (LC 1), 15=-628 (LC 11), 23=-839 (LC 10), 24=-1578 (LC 1)
Max Grav All reactions 250 (lb) or less at joint (s) except 14=257 (LC 10), 15=3111 (LC 1), 23=3111 (LC 1), 24=472 (LC 7)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-266/940, 3-4=-2345/753, 4-5=-2240/787, 5-6=-2567/827, 6-7=-2152/785, 7-8=-2152/785, 8-9=-2567/827, 9-10=-2240/787, 10-11=-2345/753, 11-12=-208/940, 12-13=-449/1453, 12-14=-324/1453
BOT CHORD 23-24=-337/302, 22-23=-878/341, 21-22=-551/2024, 20-21=-537/2043, 19-20=-500/2384, 18-19=-500/2384, 17-18=-450/2044, 16-17=-465/2024, 15-16=-878/341
WEBS 3-23=-1855/636, 3-22=-747/2760, 5-22=-503/258, 5-20=-192/361, 6-20=-194/929, 7-20=-450/308, 7-18=-450/304, 8-18=-194/929, 9-18=-307/361, 9-16=-503/258, 11-16=-747/2760, 11-15=-1855/632, 2-23=-969/324, 12-15=-969/324

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1577 lb uplift at joint 24, 839 lb uplift at joint 23, 627 lb uplift at joint 15 and 1577 lb uplift at joint 14.
- 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

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



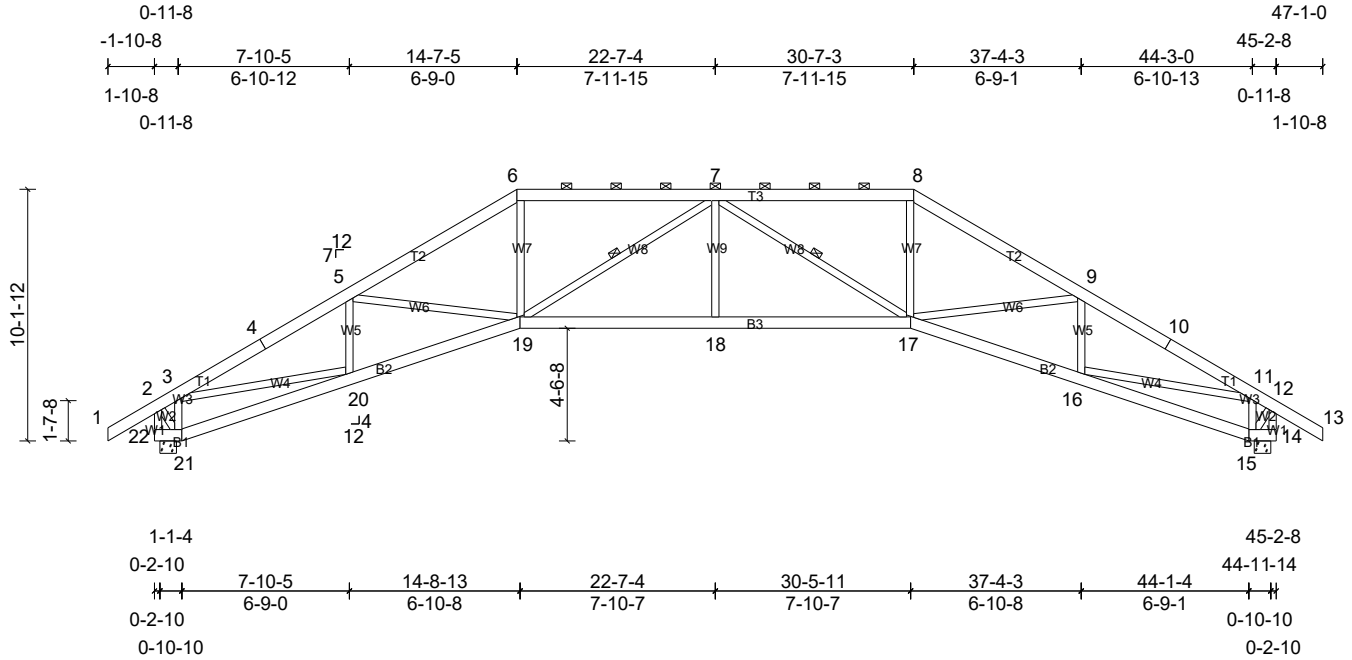
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B16	Hip	1	1	

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Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:15

Page: 1

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Loading	(psf)	Spacing	1-7-3	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	18	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.37	18-19	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.26	15	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 343 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 20-3,16-11:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-3 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-4 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-19, 7-17

REACTIONS All bearings 0-8-0.
(lb) - Max Horiz 22=321 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) except 14=-1847 (LC 1), 15=-616 (LC 11), 21=-813 (LC 10), 22=-1847 (LC 1)
Max Grav All reactions 250 (lb) or less at joint (s) 14 except 15=3380 (LC 1), 21=3380 (LC 1), 22=581 (LC 7)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-329/1115, 3-4=-2110/703, 4-5=-2011/733, 5-6=-2526/848, 6-7=-2129/799, 7-8=-2129/799, 8-9=-2526/848, 9-10=-2011/733, 10-11=-2110/703, 11-12=-260/1115, 2-22=-542/1627, 12-14=-396/1627
BOT CHORD 21-22=-311/280, 20-21=-1053/404, 19-20=-555/1831, 18-19=-643/2553, 17-18=-643/2553, 16-17=-424/1831, 15-16=-1053/404
WEBS 3-21=-1796/610, 3-20=-769/2721, 5-20=-587/275, 5-19=-208/501, 6-19=-197/903, 7-19=-634/368, 7-18=0/279, 7-17=-634/366, 8-17=-197/903, 9-17=-319/501, 9-16=-587/275, 11-16=-769/2721, 11-15=-1796/610, 2-21=-1219/419, 12-15=-1219/419

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=25ft; Cat. II; Exp B; 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) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1847 lb uplift at joint 22, 813 lb uplift at joint 21, 615 lb uplift at joint 15 and 1847 lb uplift at joint 14.
- 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.
- 9) 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

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



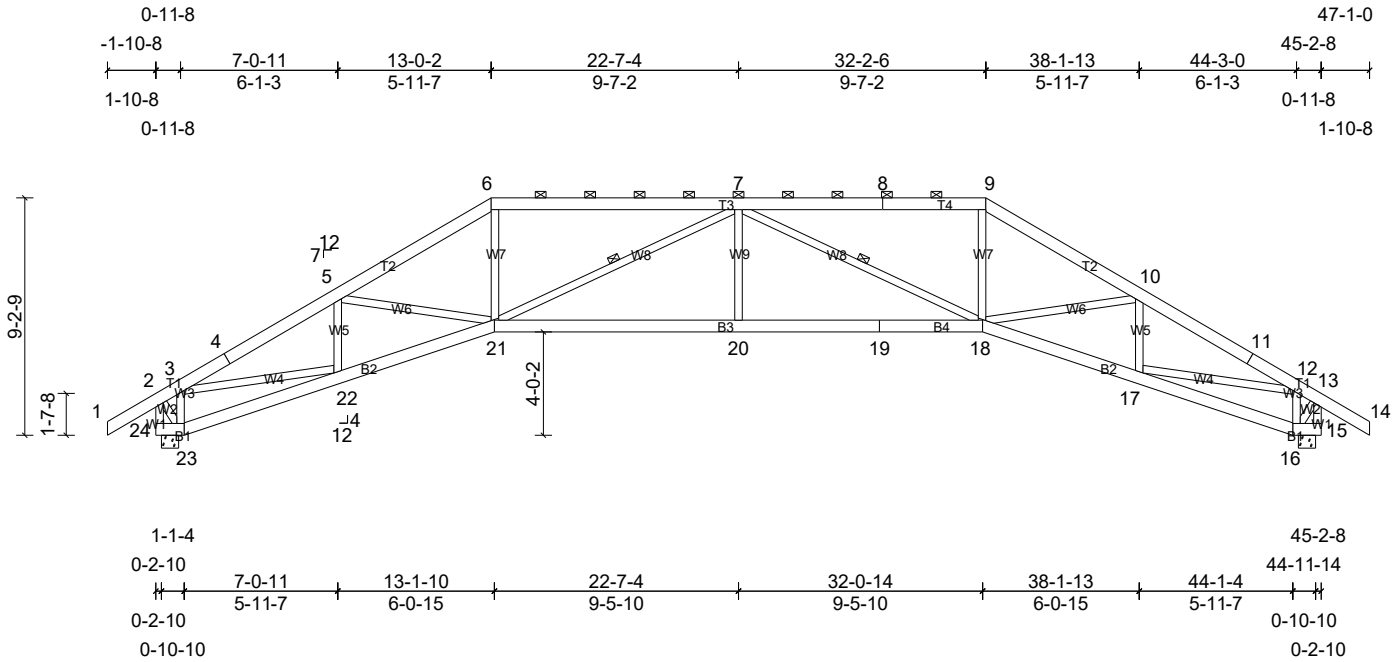
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B17	Hip	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:15

Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	0.21	20-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.39	20-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.25	16	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 338 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 22-3,17-12:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-7-2 oc purlins, except end verticals, and 2-0-0 oc purlins (4-7-6 max.): 6-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-21, 7-18

REACTIONS

All bearings 0-8-0.
(lb) - Max Horiz 24=295 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) except 15=-2164 (LC 1), 16=-610 (LC 11), 23=-989 (LC 7), 24=-2164 (LC 1)
Max Grav All reactions 250 (lb) or less at joint (s) except 15=391 (LC 7), 16=3697 (LC 1), 23=3697 (LC 1), 24=723 (LC 7)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-413/1317, 3-4=-1820/630, 4-5=-1726/656, 5-6=-2434/849, 6-7=-2064/796, 7-8=-2064/796, 8-9=-2064/796, 9-10=-2434/849, 10-11=-1726/656, 11-12=-1820/630, 12-13=-328/1317, 2-24=-669/1929, 13-15=-492/1929
BOT CHORD 23-24=-285/260, 22-23=-1251/478, 21-22=-523/1567, 20-21=-792/2744, 19-20=-792/2744, 18-19=-792/2744, 17-18=-360/1567, 16-17=-1251/478
WEBS 3-23=-1806/598, 3-22=-781/2656, 5-22=-683/294, 5-21=-235/655, 6-21=-184/842, 7-21=-875/452, 7-20=0/341, 7-18=-875/450, 9-18=-184/842, 10-18=-341/655, 10-17=-683/294, 12-17=-781/2656, 12-16=-1806/598, 2-23=-1498/527, 13-16=-1498/527

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2164 lb uplift at joint 24, 989 lb uplift at joint 23, 610 lb uplift at joint 16 and 2164 lb uplift at joint 15.
- 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

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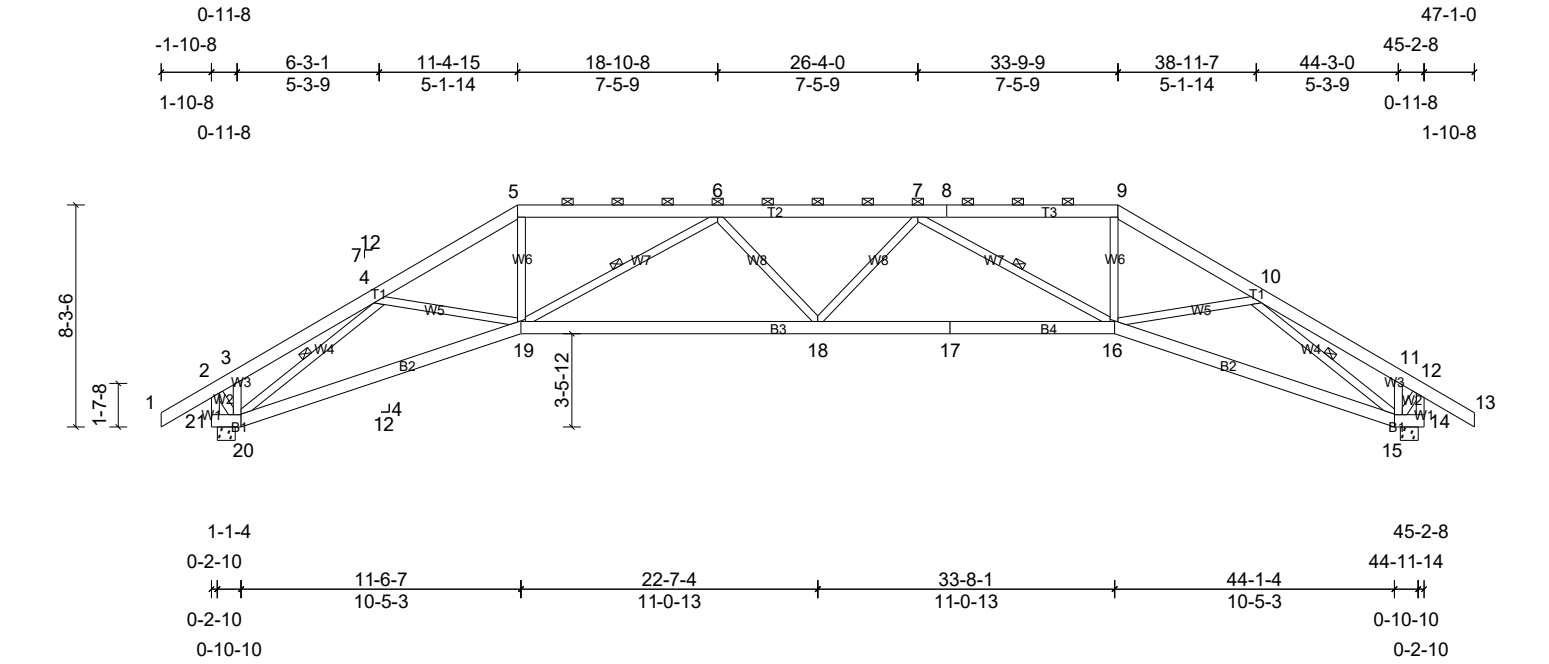


Job	Truss	Truss Type	Qty	Ply	
24091249	B18	Hip	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:16
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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	0.25	18-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.45	18-19	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.30	15	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 331 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-9 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-15 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-20, 6-19, 7-16, 10-15

REACTIONS All bearings 0-8-0.
(lb) - Max Horiz 21=-269 (LC 8)
Max Uplift All uplift 100 (lb) or less at joint(s) except 14=-1978 (LC 1), 15=-663 (LC 6), 20=-956 (LC 7), 21=-1978 (LC 1)
Max Grav All reactions 250 (lb) or less at joint (s) except 14=485 (LC 7), 15=3512 (LC 1), 20=3511 (LC 1), 21=646 (LC 7)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-397/1194, 3-4=-291/1037, 4-5=-2385/850, 5-6=-2048/794, 6-7=-2924/1108, 7-8=-2048/794, 8-9=-2048/794, 9-10=-2385/850, 10-11=-301/1037, 11-12=-332/1194, 2-21=-650/1743, 12-14=-505/1743
BOT CHORD 20-21=-263/242, 19-20=-566/1357, 18-19=-960/2839, 17-18=-875/2839, 16-17=-875/2839, 15-16=-377/1357
WEBS 3-20=-729/238, 4-20=-2953/1020, 4-19=-221/829, 5-19=-218/869, 6-19=-999/518, 6-18=0/259, 7-18=0/259, 7-16=-999/517, 9-16=-218/869, 10-16=-314/829, 10-15=-2953/1020, 11-15=-729/218, 2-20=-1199/511, 12-15=-1199/511

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=25ft; Cat. II; Exp B; 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) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1978 lb uplift at joint 21, 955 lb uplift at joint 20, 662 lb uplift at joint 15 and 1978 lb uplift at joint 14.
- 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.
- 9) 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

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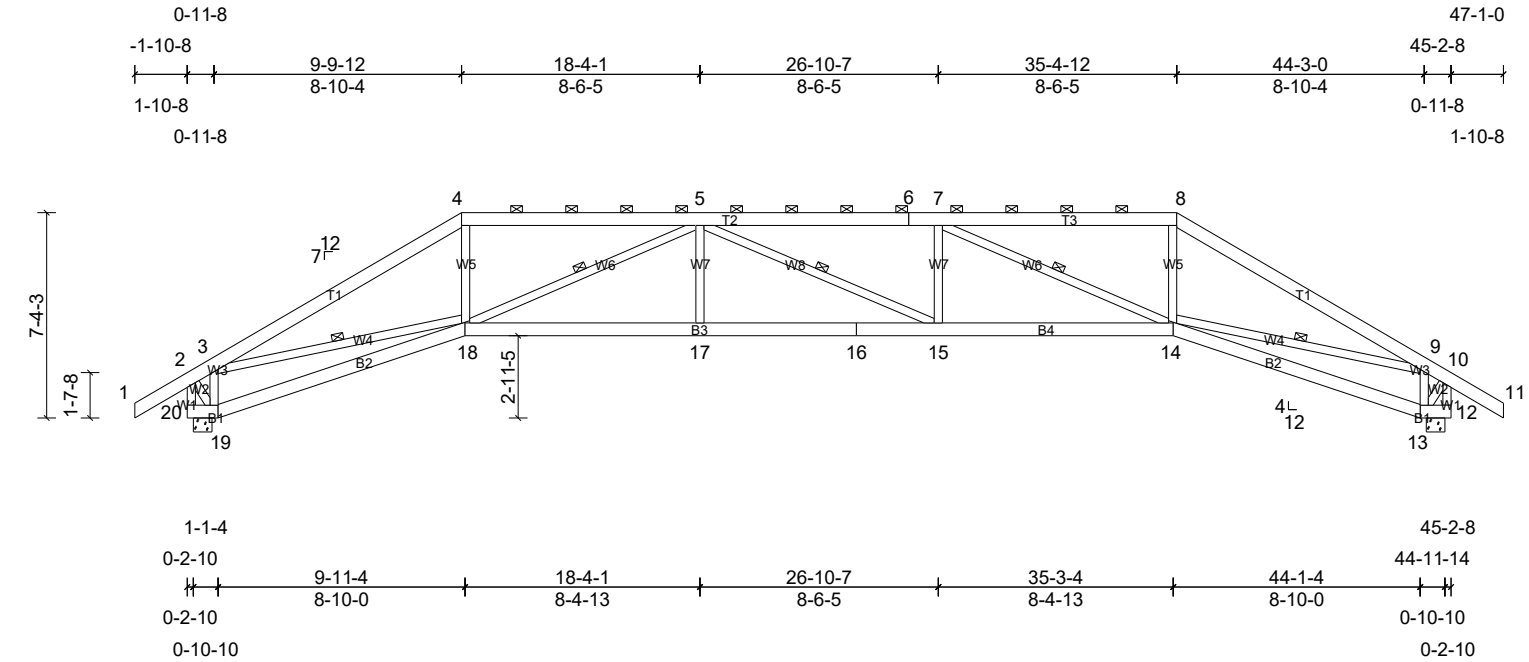


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B19	Hip	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:17
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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	0.33	15-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.54	15-17	>954	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.29	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 329 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 18-3,14-9:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-2-13 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-0 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-18, 5-18, 5-15, 7-14, 9-14

REACTIONS All bearings 0-8-0.
(lb) - Max Horiz 20=243 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) except 12=-1803 (LC 1), 13=-853 (LC 6), 19=-1103 (LC 7), 20=-1807 (LC 1)
Max Grav All reactions 250 (lb) or less at joint (s) except 12=494 (LC 6), 13=3336 (LC 1), 19=3340 (LC 1), 20=745 (LC 7)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-427/1054, 3-4=-2399/799, 4-5=-1983/770, 5-6=-3190/1251, 6-7=-3190/1251, 7-8=-1984/768, 8-9=-2399/796, 9-10=-340/1051, 2-20=-718/1572, 10-12=-564/1568
BOT CHORD 18-19=-922/398, 17-18=-1112/3189, 16-17=-1112/3189, 15-16=-1112/3189, 14-15=-1049/3190, 13-14=-920/392
WEBS 3-19=-1941/861, 3-18=-875/2833, 4-18=-172/800, 5-18=-1407/622, 5-17=0/280, 7-15=0/280, 7-14=-1407/623, 8-14=-193/800, 9-14=-777/2832, 9-13=-1941/865, 2-19=-1058/454, 10-13=-1055/436

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

- 2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1807 lb uplift at joint 20, 1102 lb uplift at joint 19, 852 lb uplift at joint 13 and 1803 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) 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

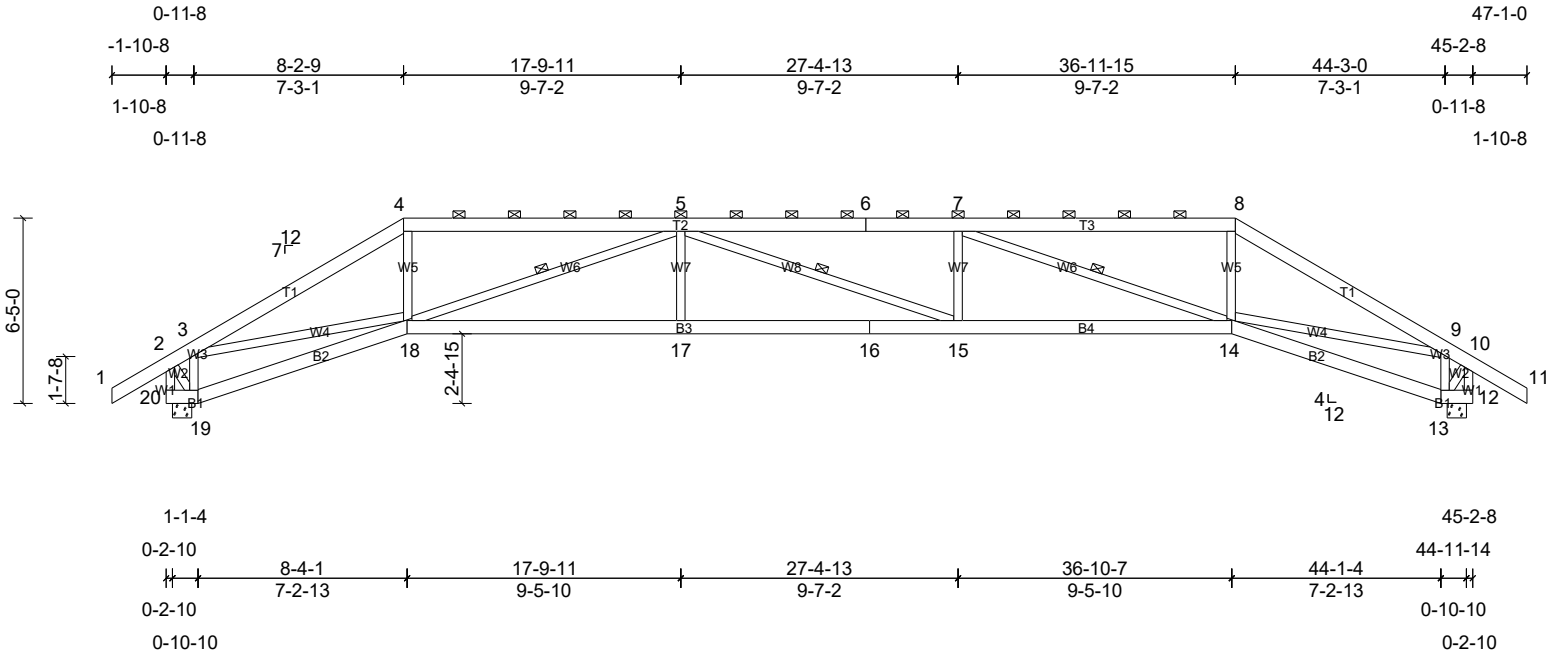


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B20	Hip	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	0.39	15-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.61	15-17	>846	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.27	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 324 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
18-3, 14-9, 20-2, 12-10: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-0 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 5-10-15 oc bracing.
WEBS 1 Row at midpt 5-18, 5-15, 7-14

REACTIONS

All bearings 0-8-0.
(lb) - Max Horiz 20=216 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) except 12=-2612 (LC 1), 13=-1202 (LC 6), 19=-1449 (LC 7), 20=-2617 (LC 1)
Max Grav All reactions 250 (lb) or less at joint (s) except 12=802 (LC 6), 13=4145 (LC 1), 19=4150 (LC 1), 20=1050 (LC 7)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-612/1588, 3-4=-1941/677, 4-5=-1604/652, 5-6=-3315/1338, 6-7=-3315/1338, 7-8=-1604/648, 8-9=-1942/673, 9-10=-507/1585, 2-20=-984/2355, 10-12=-786/2350
BOT CHORD 18-19=-1466/588, 17-18=-1217/3314, 16-17=-1217/3314, 15-16=-1217/3314, 14-15=-1163/3315, 13-14=-1463/600
WEBS 3-19=-1951/764, 3-18=-990/2964, 4-18=-114/598, 5-18=-1880/787, 5-17=0/319, 7-15=0/319, 7-14=-1880/787, 8-14=-127/598, 9-14=-893/2963, 9-13=-1950/769, 2-19=-1776/739, 10-13=-1773/674

NOTES

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

- 2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2616 lb uplift at joint 20, 1449 lb uplift at joint 19, 1201 lb uplift at joint 13 and 2612 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) 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



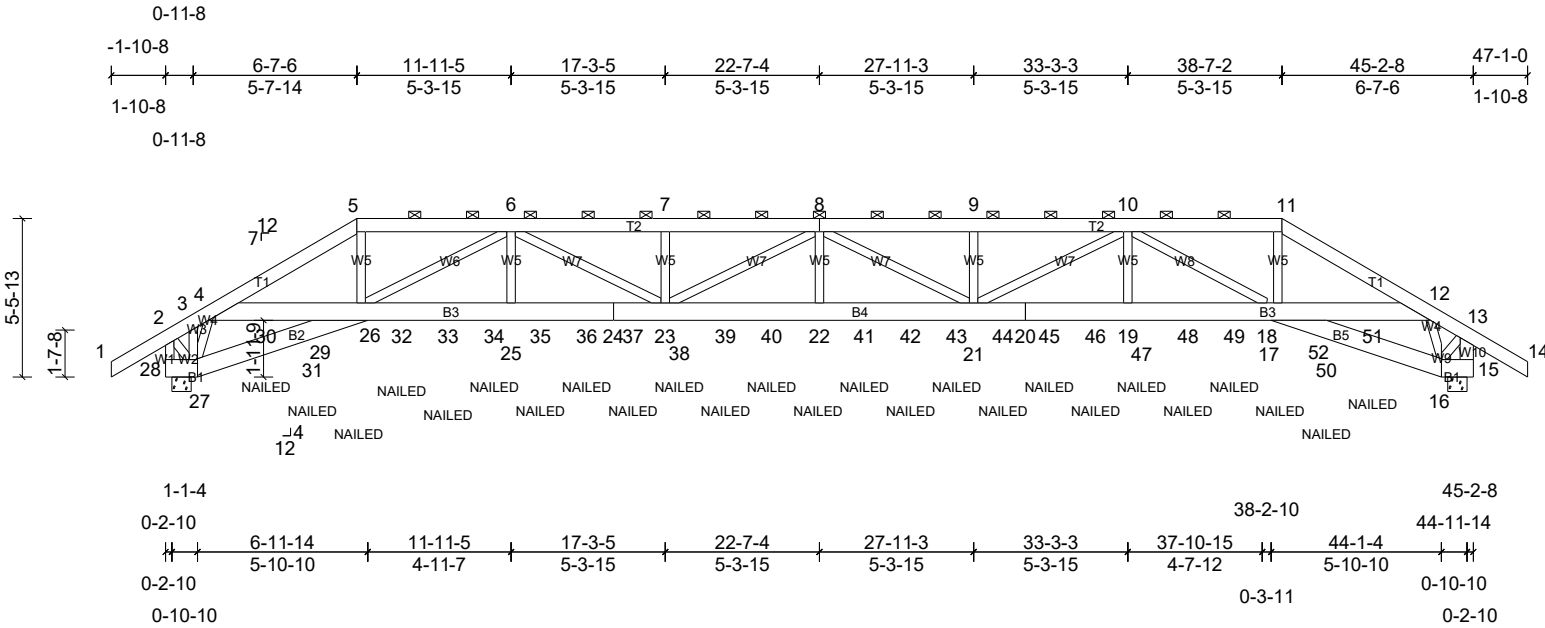
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B21	Hip Girder	1	3	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:18

Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	0.31	22	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.36	22	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.13	16	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 1150 lb FT = 20%

LUMBER		BOT CHORD	27-28=-656/435, 27-29=-5144/2706, 26-29=-5086/2694, 4-30=-3427/6654, 30-31=-3427/6654, 26-31=-3427/6654, 26-32=-2905/5516, 32-33=-2905/5516, 33-34=-2905/5516, 25-34=-2905/5516, 25-35=-2905/5516, 35-36=-2905/5516, 24-36=-2905/5516, 24-37=-2905/5516, 23-37=-2905/5516, 23-38=-4431/8477, 38-39=-4431/8477, 39-40=-4431/8477, 22-40=-4431/8477, 22-41=-4431/8477, 41-42=-4431/8477, 42-43=-4431/8477, 21-43=-4431/8477, 21-44=-2856/5548, 20-44=-2856/5548, 20-45=-2856/5548, 45-46=-2856/5548, 19-46=-2856/5548, 19-47=-2856/5548, 47-48=-2856/5548, 48-49=-2856/5548, 18-49=-2856/5548, 17-18=-995/2081, 17-50=-3306/6507, 50-51=-3306/6507, 12-51=-3306/6507, 17-52=-4781/2503, 16-52=-4802/2488, 15-16=-963/518
TOP CHORD	2x6 SP No.2		3-27=-2586/1351, 6-26=-4156/2221, 6-25=-257/672, 6-23=-1339/2524, 8-23=-918/510, 8-22=-275/696, 8-21=-899/498, 10-21=-1308/2460, 10-19=-319/792, 10-18=-4104/2193, 2-27=-7399/3957, 4-27=-3438/1835, 5-26=-440/917, 12-16=-5437/2807, 11-17=-514/1050, 13-16=-7971/4133
BOT CHORD	2x8 SP No.2		
WEBS	2x4 SP No.3 *Except* 28-2:2x4 SP No.1, 15-13:2x6 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.): 5-11.		
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.		
REACTIONS	All bearings 0-8-0.		
(lb) - Max Horiz	28=188 (LC 7)		
Max Uplift	All uplift 100 (lb) or less at joint(s) except 15=-12155 (LC 18), 16=-7827 (LC 4), 27=-7706 (LC 5), 28=-11447 (LC 18)		
Max Grav	All reactions 250 (lb) or less at joint (s) except 15=6299 (LC 5), 16=15367 (LC 17), 27=14702 (LC 18), 28=6076 (LC 5)		
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-3=-3658/6965, 3-4=-3081/5878, 4-5=-2159/1121, 5-6=-1841/1011, 6-7=-7600/4014, 7-8=-7600/4014, 8-9=-7609/3995, 9-10=-7609/3995, 10-11=-2022/1084, 11-12=-2372/1207, 12-13=-3558/6903, 2-28=-5442/10232, 13-15=-5341/10259		

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 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11446 lb uplift at joint 28, 7705 lb uplift at joint 27, 7826 lb uplift at joint 16 and 12154 lb uplift at joint 15.
- 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.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B21	Hip Girder	1	3	

- 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

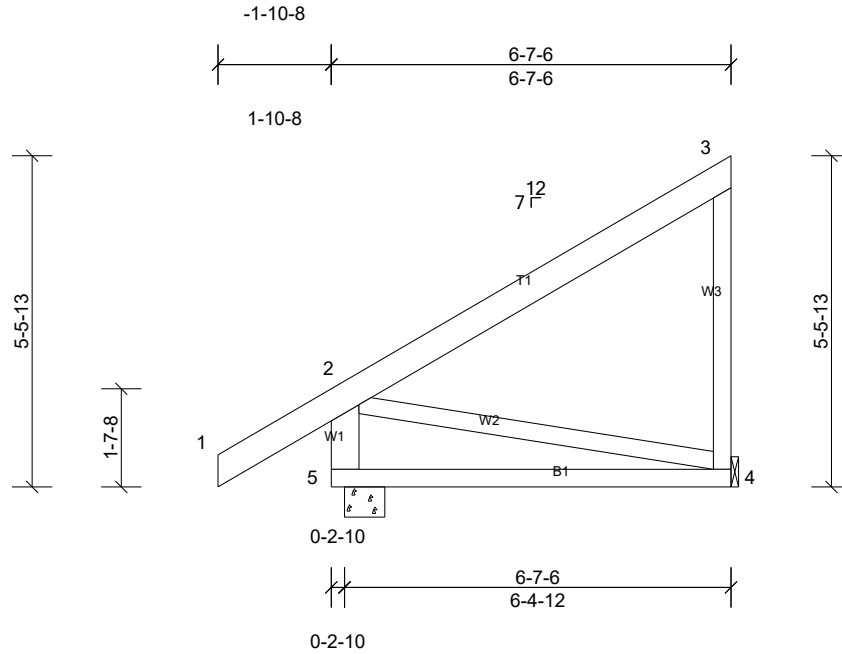
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15,
 Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-2=-48, 2-5=-48, 5-11=-48, 11-13=-48,
 13-14=-48, 27-28=-16, 26-27=-16, 17-26=-16,
 16-17=-16, 15-16=-16
 Concentrated Loads (lb)
 Vert: 17=-132, 26=-132, 22=-132, 29=-116, 30=-149,
 32=-132, 33=-132, 34=-132, 35=-132, 36=-132,
 37=-132, 38=-132, 39=-132, 40=-132, 41=-132,
 42=-132, 43=-132, 44=-132, 45=-132, 46=-132,
 47=-132, 48=-132, 49=-132, 50=-116, 51=-149

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B22	Jack-Closed	21	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.04	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.08	4-5	>902	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 52 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 5-2:2x6 SP No.2

BRACING

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

REACTIONS (lb/size) 4=183/ Mechanical, 5=317/0-8-0, (min. 0-1-8)
Max Horiz 5=234 (LC 9)
Max Uplift 4=-109 (LC 10), 5=-104 (LC 10)
Max Grav 4=237 (LC 17), 5=317 (LC 1)

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

TOP CHORD 2-5=-265/245

NOTES

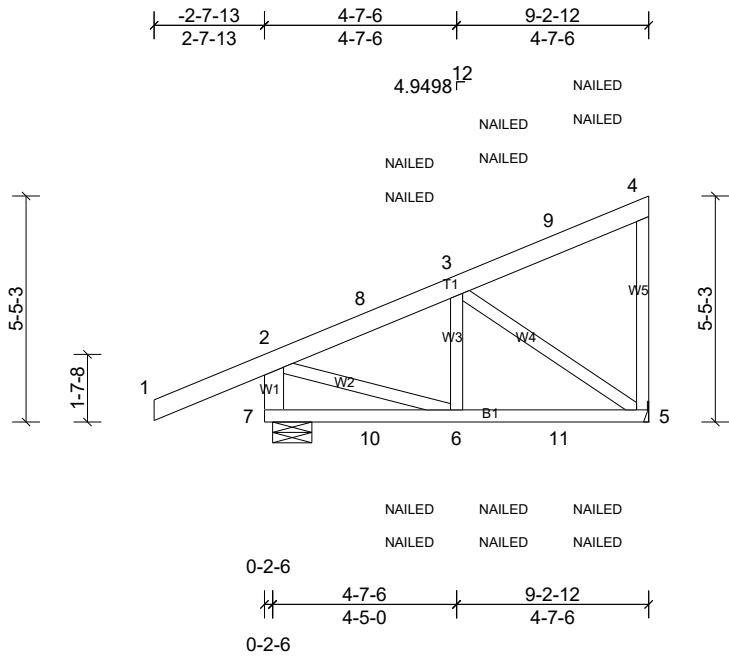
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 5 and 109 lb uplift at joint 4.
- 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

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B23	Diagonal Hip Girder	2	1	

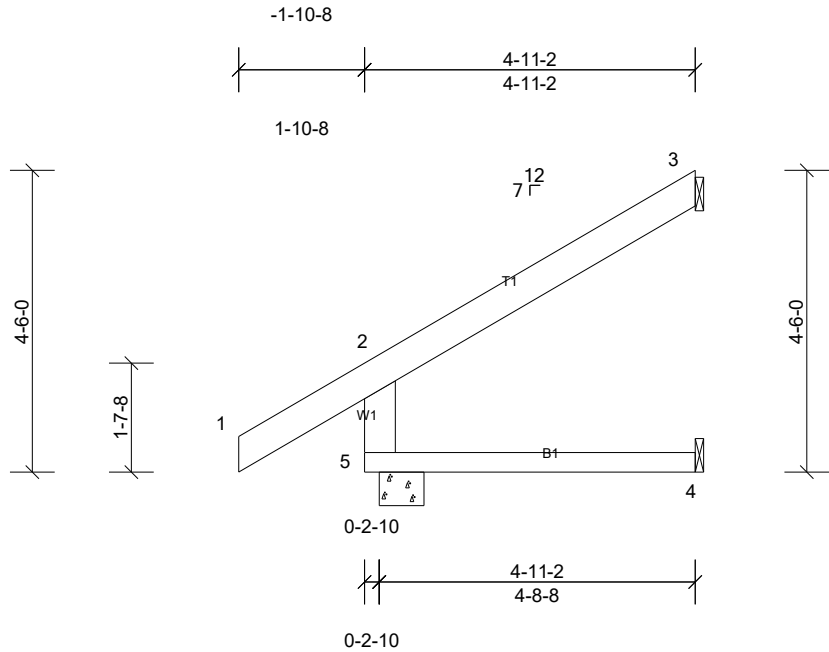


Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.02	5-6	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.03	5-6	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.00	5	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 71 lb FT = 20%

LUMBER	
TOP CHORD	2x6 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 7-2:2x6 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
REACTIONS (lb/size) 5=325/ Mechanical, 7=420/0-11-5, (min. 0-1-8)	
Max Horiz 7=254 (LC 5)	
Max Uplift 5=-324 (LC 5), 7=-321 (LC 4)	
Max Grav 5=421 (LC 15), 7=478 (LC 18)	
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-7=-446/324, 2-8=-478/229, 3-8=-400/226
BOT CHORD	6-11=-325/359, 5-11=-325/359
WEBS	2-6=-207/446, 3-5=-399/341

- 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=25ft; Cat. II; Exp B; 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
 - 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) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 321 lb uplift at joint 7 and 324 lb uplift at joint 5.
 - 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B24	Jack-Open	4	1	



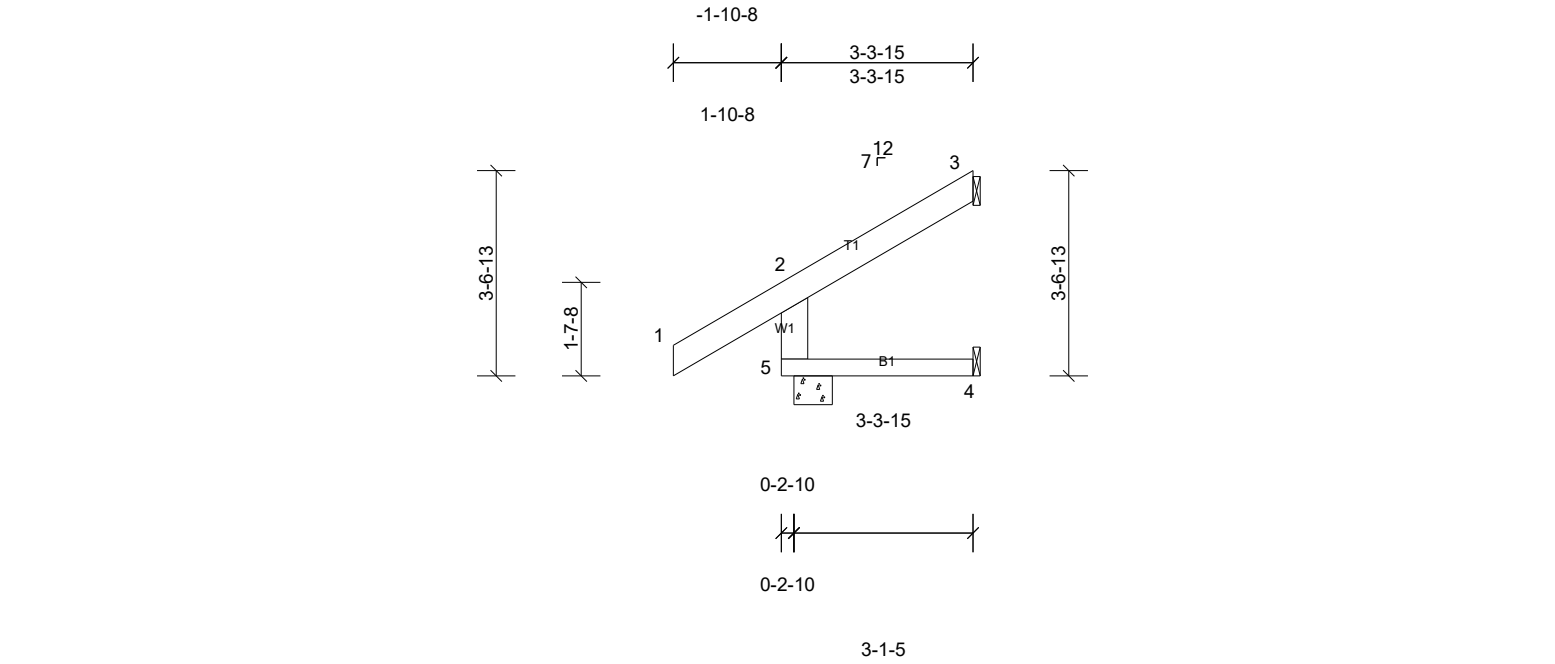
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	0.02	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.03	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 29 lb	FT = 20%

- LUMBER**
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x6 SP No.2
- BRACING**
 TOP CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (lb/size) 3=93/ Mechanical, 4=32/ Mechanical, 5=272/0-8-0, (min. 0-1-8)
 Max Horiz 5=145 (LC 10)
 Max Uplift 3=-122 (LC 10), 5=-56 (LC 10)
 Max Grav 3=122 (LC 17), 4=62 (LC 3), 5=272 (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=25ft; Cat. II; Exp B; 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) 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) Refer to girder(s) for truss to truss connections.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 5 and 122 lb uplift at joint 3.
 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	Job Reference (optional)
24091249	B25	Jack-Open	4	1	



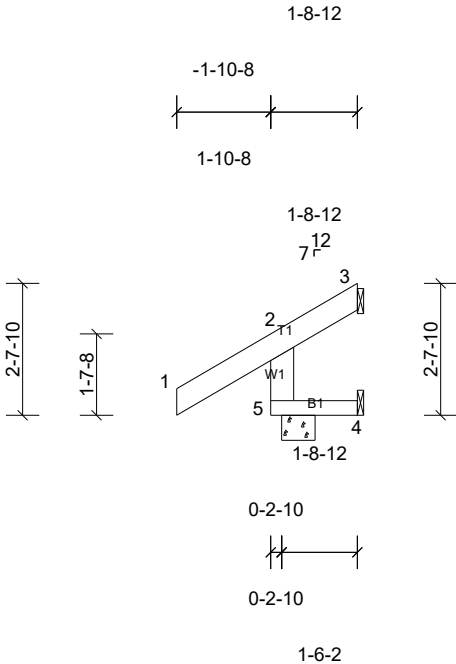
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 22 lb	FT = 20%

- LUMBER**
- TOP CHORD 2x6 SP No.2
- BOT CHORD 2x4 SP No.2
- WEBS 2x6 SP No.2
- BRACING**
- TOP CHORD Structural wood sheathing directly applied or 3-3-15 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (lb/size) 3=45/ Mechanical, 4=17/ Mechanical, 5=233/0-8-0, (min. 0-1-8)
- Max Horiz 5=104 (LC 10)
- Max Uplift 3=-81 (LC 10), 5=-53 (LC 10)
- Max Grav 3=69 (LC 17), 4=40 (LC 3), 5=233 (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=25ft; Cat. II; Exp B; 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) 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) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 5 and 81 lb uplift at joint 3.
 - 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	Job Reference (optional)
24091249	B26	Jack-Open	4	1	

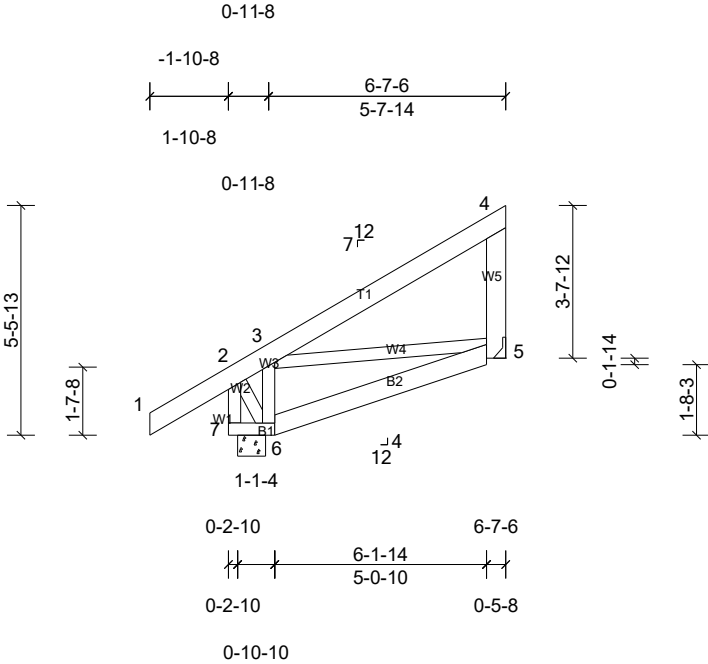


Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 15 lb	FT = 20%

- LUMBER**
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x6 SP No.2
- BRACING**
 TOP CHORD Structural wood sheathing directly applied or 1-8-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (lb/size) 3=-24/ Mechanical, 4=0/ Mechanical, 5=220/0-8-0, (min. 0-1-8)
 Max Horiz 5=76 (LC 7)
 Max Uplift 3=-33 (LC 7), 4=-10 (LC 7), 5=-60 (LC 10)
 Max Grav 3=19 (LC 8), 4=19 (LC 8), 5=220 (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=25ft; Cat. II; Exp B; 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) 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) Refer to girder(s) for truss to truss connections.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 3, 10 lb uplift at joint 4 and 60 lb uplift at joint 5.
 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	Job Reference (optional)
24091249	B27	Jack-Closed	21	1	



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.01	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 58 lb	FT = 20%

- LUMBER**

TOP CHORD 2x6 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 6-5:2x6 SP No.2

WEBS 2x4 SP No.3 *Except* 4-5:2x6 SP No.2
- BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
- REACTIONS** (lb/size)

5=145/ Mechanical, 6=251/0-8-0, (min. 0-1-8), 7=99/0-8-0, (min. 0-1-8)

Max Horiz 7=198 (LC 7)

Max Uplift 5=-85 (LC 10), 6=-195 (LC 10), 7=-84 (LC 6)

Max Grav 5=187 (LC 17), 6=312 (LC 17), 7=140 (LC 18)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
- WEBS** 3-6=-424/187

- 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=25ft; Cat. II; Exp B; 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) 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) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 7, 195 lb uplift at joint 6 and 85 lb uplift at joint 5.

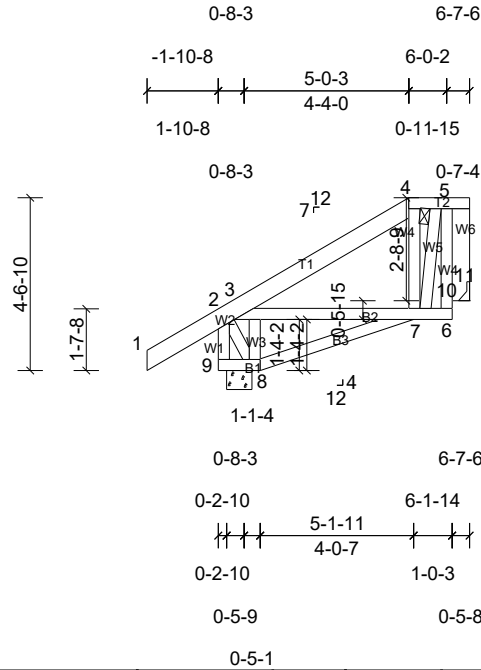
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B28	Half Hip	2	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	0.00	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 60 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* 4-5:2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 3-6:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 5-10:2x6 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.): 4-5.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 8=194/0-8-0, (min. 0-1-8), 9=149/0-8-0, (min. 0-1-8), 11=129/
Mechanical
Max Horiz 9=147 (LC 10)
Max Uplift 8=-153 (LC 10), 9=-24 (LC 6), 11=-77 (LC 10)
Max Grav 8=239 (LC 17), 9=149 (LC 1), 11=129 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-8=-449/141

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=25ft; Cat. II; Exp B; 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) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 9, 153 lb uplift at joint 8 and 77 lb uplift at joint 11.

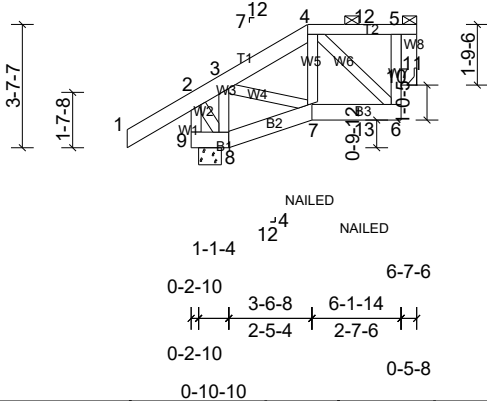
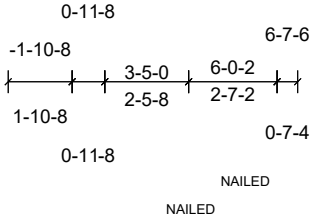
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B29	Half Hip Girder	2	1	



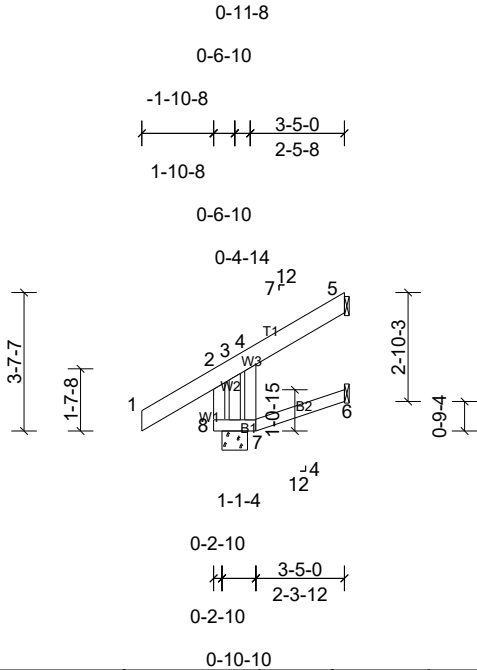
Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	0.00	7	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	7	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	11	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 57 lb FT = 20%

LUMBER		
TOP CHORD	2x6 SP No.2	*Except* 4-5:2x4 SP No.2
BOT CHORD	2x6 SP No.2	
WEBS	2x4 SP No.3	*Except* 5-10:2x6 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.): 4-5.	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	
REACTIONS	(lb/size)	8=242/0-8-0, (min. 0-1-8), 9=123/0-8-0, (min. 0-1-8), 11=149/ Mechanical
	Max Horiz	9=115 (LC 24)
	Max Uplift	8=-153 (LC 8), 9=-45 (LC 25), 11=-142 (LC 5)
	Max Grav	8=291 (LC 15), 9=123 (LC 1), 11=172 (LC 15)
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=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 9, 153 lb uplift at joint 8 and 142 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.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-48, 2-4=-48, 4-5=-48, 8-9=-16, 7-8=-16, 6-7=-16
Concentrated Loads (lb)
Vert: 7=-5, 4=-16, 12=-16, 13=-5

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	B30	Jack-Open	4	1	

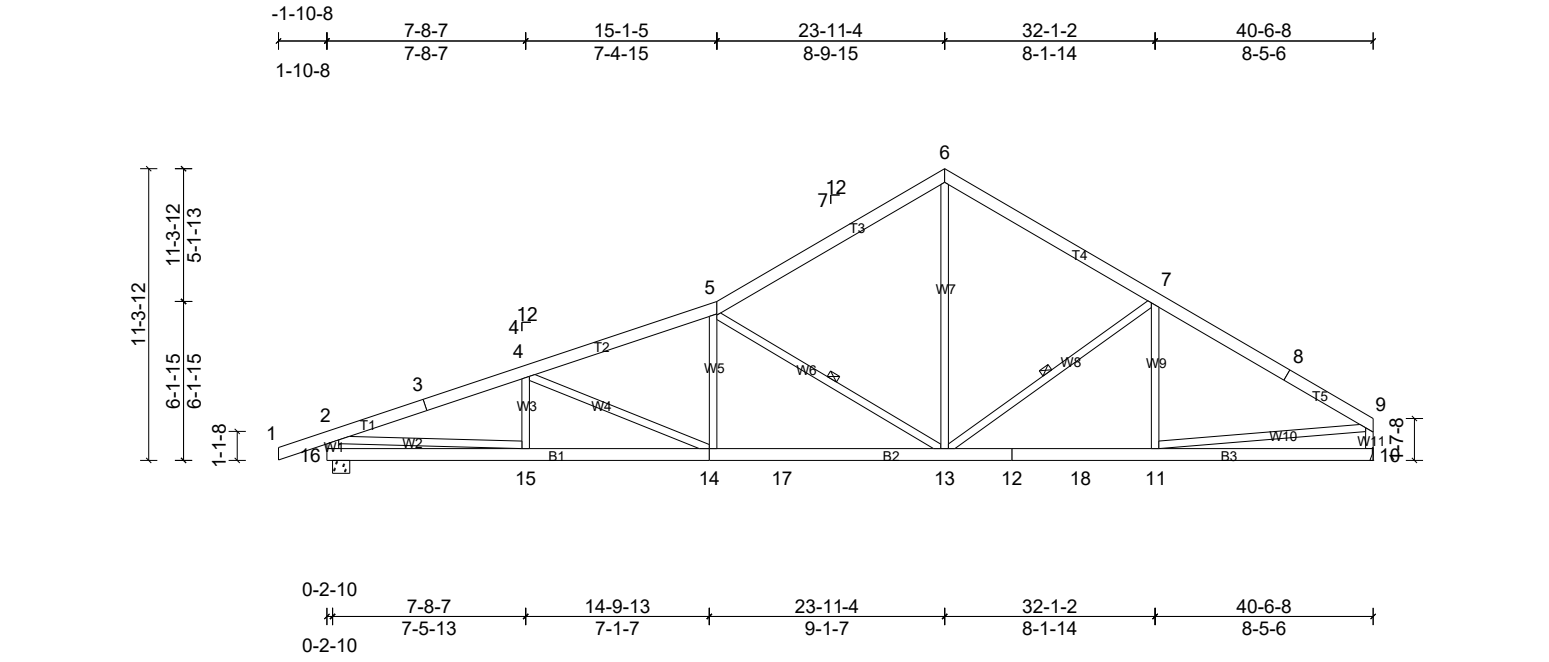


Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.01	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.01	7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 26 lb	FT = 20%

LUMBER		LOAD CASE(S)	Standard
TOP CHORD	2x6 SP No.2		
BOT CHORD	2x4 SP No.2		
WEBS	2x4 SP No.3		
BRACING			
TOP CHORD	Structural wood sheathing directly applied or 3-5-0 oc purlins, except end verticals.		
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.		
REACTIONS		(lb/size)	5=54/ Mechanical, 6=18/ Mechanical, 8=230/0-8-0, (min. 0-1-8)
	Max Horiz	8=107 (LC 10)	
	Max Uplift	5=-96 (LC 10), 8=-51 (LC 10)	
	Max Grav	5=84 (LC 17), 6=36 (LC 3), 8=230 (LC 1)	
FORCES		(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-8=-383/881, 2-3=-174/481		
WEBS	3-8=-788/246		

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 96 lb uplift at joint 5 and 51 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.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	C1	Roof Special	1	1	



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	0.15	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.25	13-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 308 lb	FT = 20%

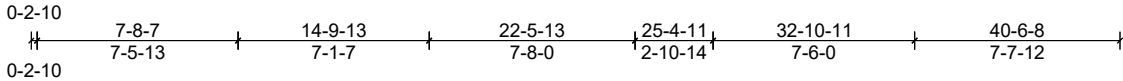
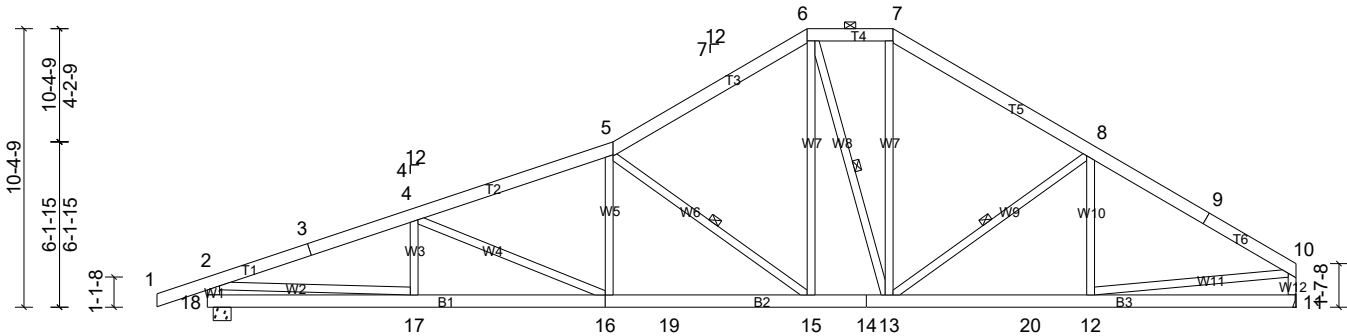
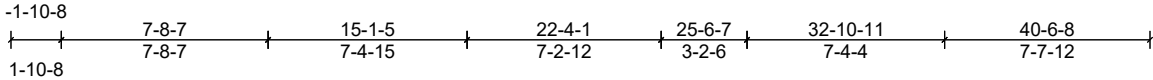
LUMBER		
TOP CHORD	2x6 SP No.2	
BOT CHORD	2x6 SP No.2	
WEBS	2x4 SP No.3 *Except* 16-2:2x6 SP No.2	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 4-2-5 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 7-7-5 oc bracing.	
WEBS	1 Row at midpt	5-13, 7-13
REACTIONS	(lb/size)	10=1282/ Mechanical,
		16=1388/0-8-0, (min. 0-1-10)
	Max Horiz	16=362 (LC 7)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250	
	(lb) or less except when shown.	
	TOP CHORD	2-3=-2627/1033, 3-4=-2558/1054, 4-5=-2327/959, 5-6=-1470/667, 6-7=-1489/684, 7-8=-1689/673, 8-9=-1770/648, 2-16=-1302/697, 9-10=-1212/496
BOT CHORD	15-16=-387/626, 14-15=-937/2427, 14-17=-730/2142, 13-17=-730/2142, 12-13=-432/1451, 12-18=-432/1451, 11-18=-432/1451	
	WEBS	4-14=-336/314, 5-14=-54/359, 5-13=-1148/601, 6-13=-400/1035, 7-13=-490/323, 2-15=-688/1810, 9-11=-373/1283

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
 - 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 3-06-00 tall by 2-00-00 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 466 lb uplift at joint 16 and 337 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	C2	Hip	1	1	



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	0.15	16-17	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.24	16-17	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.06	11	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 329 lb FT = 20%

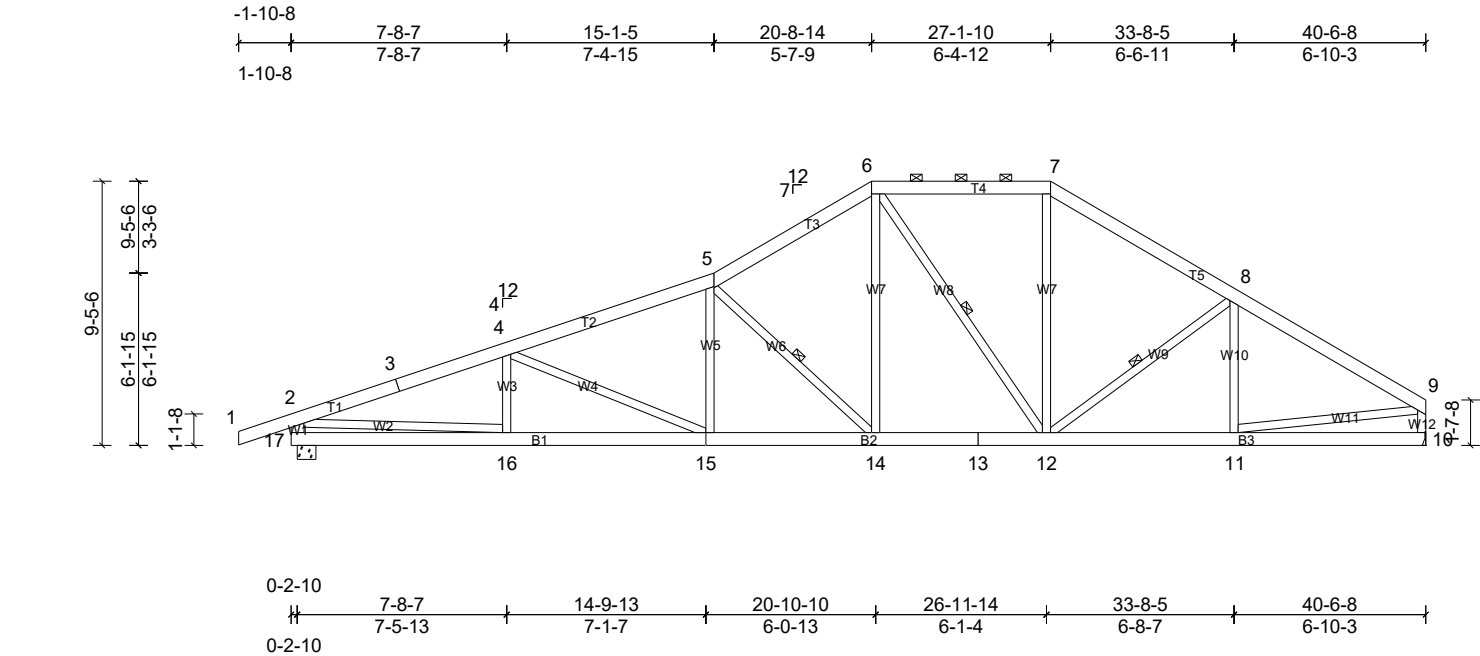
LUMBER		
TOP CHORD	2x6 SP No.2	
BOT CHORD	2x6 SP No.2	
WEBS	2x4 SP No.3 *Except* 18-2:2x6 SP No.2	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 4-2-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.	
BOT CHORD	Rigid ceiling directly applied or 7-6-10 oc bracing.	
WEBS	1 Row at midpt 5-15, 6-13, 8-13	
REACTIONS (lb/size)		
	11=1282/ Mechanical,	
	18=1388/0-8-0, (min. 0-1-10)	
	Max Horiz 18=337 (LC 9)	
	Max Uplift 11=-323 (LC 11), 18=-457 (LC 10)	
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-3=-2629/1045, 3-4=-2561/1066,	
	4-5=-2322/970, 5-6=-1577/728,	
	6-7=-1309/674, 7-8=-1519/705,	
	8-9=-1678/677, 9-10=-1760/657,	
	2-18=-1302/700, 10-11=-1217/497	
BOT CHORD	17-18=-364/622, 16-17=-950/2430,	
	16-19=-738/2136, 15-19=-738/2136,	
	14-15=-300/1294, 13-14=-300/1294,	
	13-20=-448/1450, 12-20=-448/1450	
WEBS	4-16=-341/290, 5-16=-51/349,	
	5-15=-1076/559, 6-15=-278/712,	
	6-13=-327/178, 7-13=-200/527,	
	8-13=-422/285, 2-17=-701/1816,	
	10-12=-402/1312	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
 - 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 3-06-00 tall by 2-00-00 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 457 lb uplift at joint 18 and 323 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	C3	Hip	1	1	



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	0.14	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.24	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 321 lb	FT = 20%

LUMBER
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except* 17-2:2x6 SP No.2

BRACING
 TOP CHORD Structural wood sheathing directly applied or 4-2-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
 BOT CHORD Rigid ceiling directly applied or 7-6-1 oc bracing.
 WEBS 1 Row at midpt 5-14, 6-12, 8-12

REACTIONS (lb/size) 10=1282/ Mechanical, 17=1388/0-8-0, (min. 0-1-10)
 Max Horiz 17=311 (LC 7)
 Max Uplift 10=-307 (LC 11), 17=-447 (LC 10)

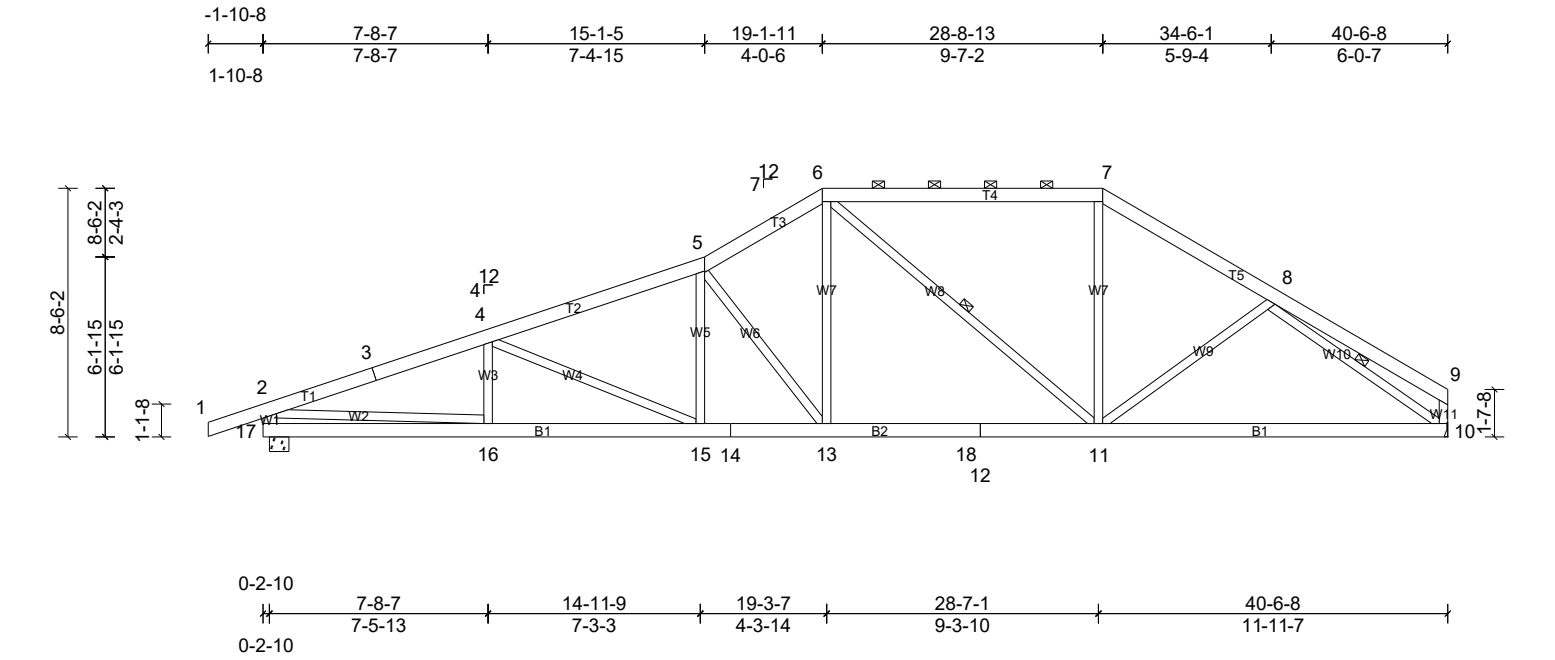
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2633/1058, 3-4=-2566/1078, 4-5=-2314/981, 5-6=-1726/802, 6-7=-1295/683, 7-8=-1574/722, 8-9=-1736/679, 9-10=-1221/501, 2-17=-1303/704
 BOT CHORD 16-17=-343/618, 15-16=-961/2434, 14-15=-747/2127, 13-14=-388/1443, 12-13=-388/1443, 11-12=-458/1435
 WEBS 4-15=-350/269, 5-15=-54/318, 5-14=-978/510, 6-14=-297/771, 6-12=-360/174, 7-12=-154/484, 8-12=-334/246, 9-11=-425/1321, 2-16=-713/1825

- 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=25ft; Cat. II; Exp B; 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) 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 3-06-00 tall by 2-00-00 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 447 lb uplift at joint 17 and 307 lb uplift at joint 10.
- 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) 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)
24091249	C4	Hip	1	1	



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	0.14	15-16	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.25	10-11	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.06	10	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 310 lb FT = 20%

LUMBER
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except* 17-2:2x6 SP No.2

BRACING
 TOP CHORD Structural wood sheathing directly applied or 4-2-5 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-1 max.): 6-7.
 BOT CHORD Rigid ceiling directly applied or 7-5-7 oc bracing.
 WEBS 1 Row at midpt 6-11, 8-10

REACTIONS (lb/size) 10=1282/ Mechanical, 17=1388/0-8-0, (min. 0-1-10)
 Max Horiz 17=285 (LC 7)
 Max Uplift 10=-290 (LC 11), 17=-464 (LC 6)

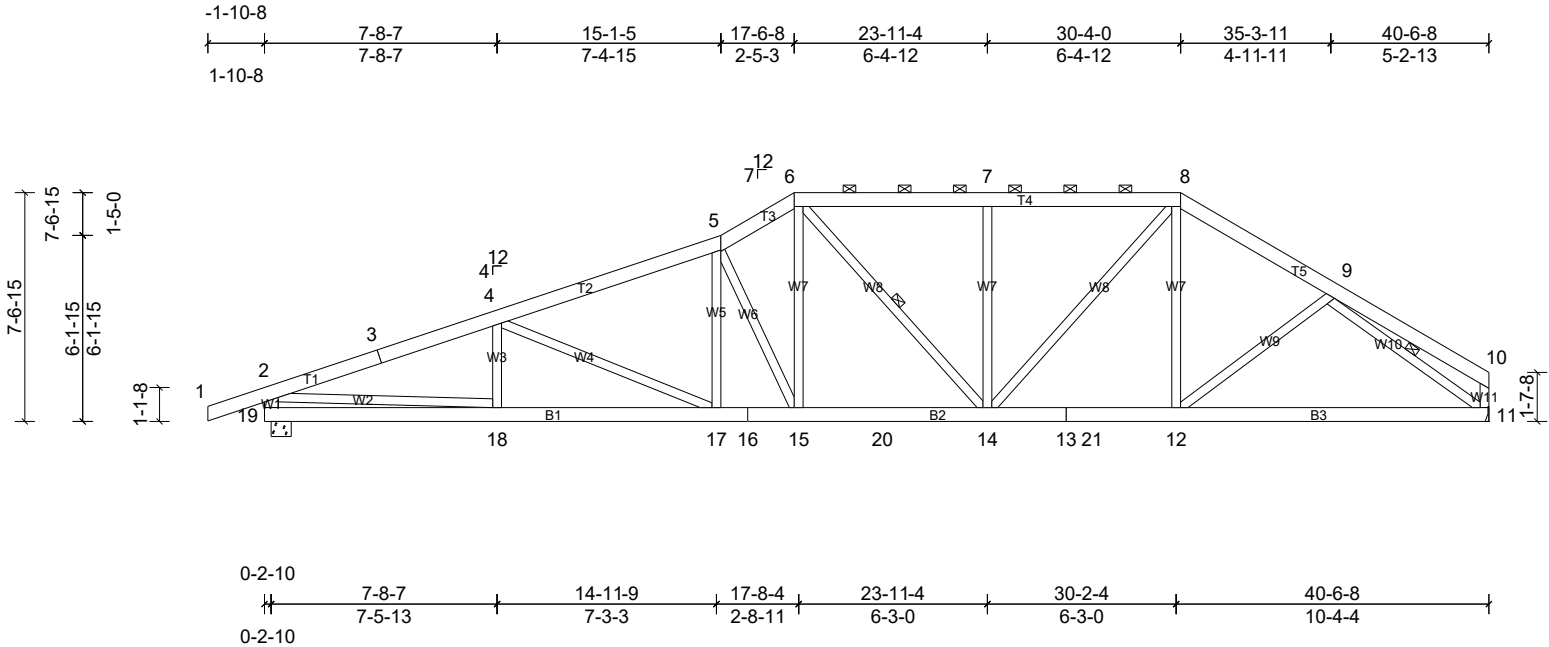
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2637/1069, 3-4=-2570/1090, 4-5=-2302/990, 5-6=-1895/885, 6-7=-1367/685, 7-8=-1642/723, 8-9=-306/140, 2-17=-1304/708, 9-10=-279/146
 BOT CHORD 16-17=-339/614, 15-16=-973/2438, 14-15=-755/2121, 13-14=-755/2121, 13-18=-492/1619, 12-18=-492/1619, 11-12=-492/1619, 10-11=-492/1371
 WEBS 4-15=-361/250, 5-15=-57/282, 5-13=-873/454, 6-13=-309/831, 6-11=-417/209, 7-11=-93/479, 8-11=-176/251, 2-16=-724/1833, 8-10=-1520/624

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
 - 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 3-06-00 tall by 2-00-00 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 464 lb uplift at joint 17 and 290 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	C5	Hip	1	1	



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	0.14	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.25	17-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.06	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 321 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except* 19-2:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-5 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-12 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied or 7-5-0 oc bracing.
 WEBS 1 Row at midpt 6-14, 9-11

REACTIONS

(lb/size) 11=1282/ Mechanical,
 19=1388/0-8-0, (min. 0-1-10)
 Max Horiz 19=258 (LC 7)
 Max Uplift 11=-282 (LC 6), 19=-509 (LC 6)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2637/1080, 3-4=-2570/1101, 4-5=-2302/1003, 5-6=-2079/982, 6-7=-1775/868, 7-8=-1775/868, 8-9=-1666/734, 9-10=-259/125, 2-19=-1304/713
 BOT CHORD 18-19=-335/614, 17-18=-983/2438, 16-17=-767/2122, 15-16=-767/2122, 15-20=-588/1785, 14-20=-588/1785, 13-14=-394/1385, 13-21=-394/1385, 12-21=-394/1385, 11-12=-492/1345
 WEBS 4-17=-354/250, 5-17=-60/264, 5-15=-859/452, 6-15=-370/853, 7-14=-342/254, 8-14=-294/642, 9-11=-1549/638, 2-18=-732/1832

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- 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 3-06-00 tall by 2-00-00 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 509 lb uplift at joint 19 and 282 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.

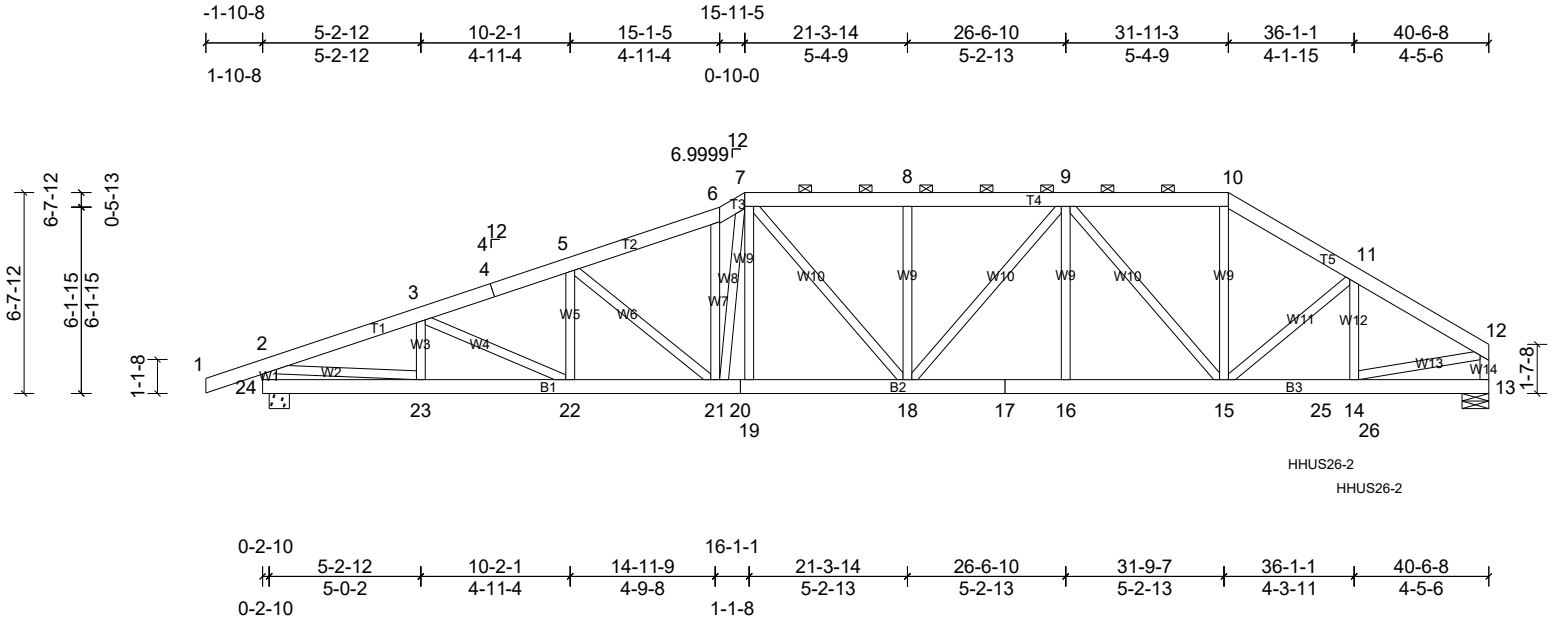
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	C6	Hip Girder	1	3	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	0.08	18	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.13	16-18	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.04	13	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 1012 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 24-2:2x6 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.): 7-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 13=4166/0-10-10, (min. 0-1-10), 24=1816/0-8-0, (min. 0-1-8)
Max Horiz 24=232 (LC 5)
Max Uplift 13=-1202 (LC 4), 24=-672 (LC 4)

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

TOP CHORD 2-3=-3346/1076, 3-4=-3652/1197, 4-5=-3624/1206, 5-6=-3423/1138, 6-7=-3600/1235, 7-8=-3543/1187, 8-9=-3543/1187, 9-10=-3681/1128, 10-11=-4240/1263, 11-12=-5606/1614, 12-13=-4249/1213, 2-24=-1712/672

BOT CHORD 23-24=-339/649, 22-23=-1031/3110, 21-22=-1097/3450, 20-21=-910/3096, 19-20=-910/3096, 18-19=-911/3100, 17-18=-1052/3688, 16-17=-1052/3688, 15-16=-1052/3688, 15-25=-1321/4771, 14-25=-1321/4771

WEBS 3-23=-375/198, 3-22=-84/415, 5-21=-335/277, 6-21=-645/249, 7-21=-301/761, 7-18=-191/816, 9-18=-432/153, 9-15=-151/749, 10-15=-508/1866, 11-15=-1791/634, 11-14=-491/1828, 12-14=-1325/4794, 2-23=-798/2487

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 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 672 lb uplift at joint 24 and 1202 lb uplift at joint 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.
- 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 HHUS26-2 (14-16d Girder, 6-16d Truss) or equivalent at 35-0-0 from the left end to connect truss(es) to back face of bottom chord.
- Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 36-7-3 from the left end to connect truss(es) to back 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: 1-2=-48, 2-6=-48, 6-7=-48, 7-10=-48, 10-12=-48, 13-24=-16
Concentrated Loads (lb)

Vert: 25=-2875, 26=-437

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



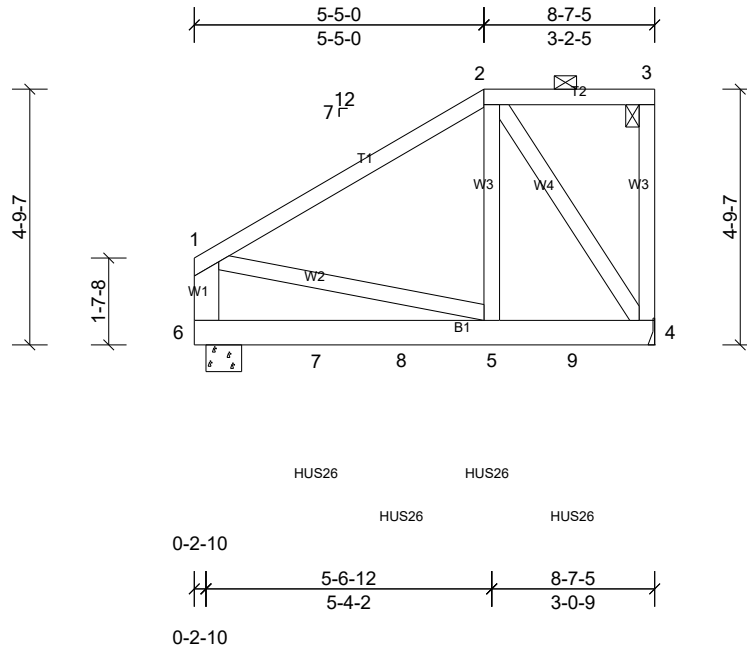
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	C7	Half Hip Girder	1	2	

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.05	5-6	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.11	5-6	>890	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 127 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except* 6-1:2x6 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.): 2-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=2888/ Mechanical, 6=2476/0-8-0, (min. 0-1-9)
Max Horiz 6=187 (LC 5)
Max Uplift 4=590 (LC 5), 6=467 (LC 8)
Max Grav 4=3117 (LC 15), 6=2681 (LC 15)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2201/376, 1-6=-1495/305
BOT CHORD 6-7=-281/758, 7-8=-281/758, 5-8=-281/758, 5-9=-395/1989, 4-9=-395/1989
WEBS 2-5=-571/3744, 2-4=-3443/615, 1-5=-248/1262

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 2-5 2x4 - 1 row at 0-7-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust)
Vasd=123mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 590 lb uplift at joint 4 and 467 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.
- 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 HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 1-7-3 oc max. starting at 2-3-5 from the left end to 7-0-14 to connect truss(es) 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: 1-2=-48, 2-3=-48, 4-6=-16
Concentrated Loads (lb)
Vert: 5=-1209, 7=-1209, 8=-1209, 9=-1209

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

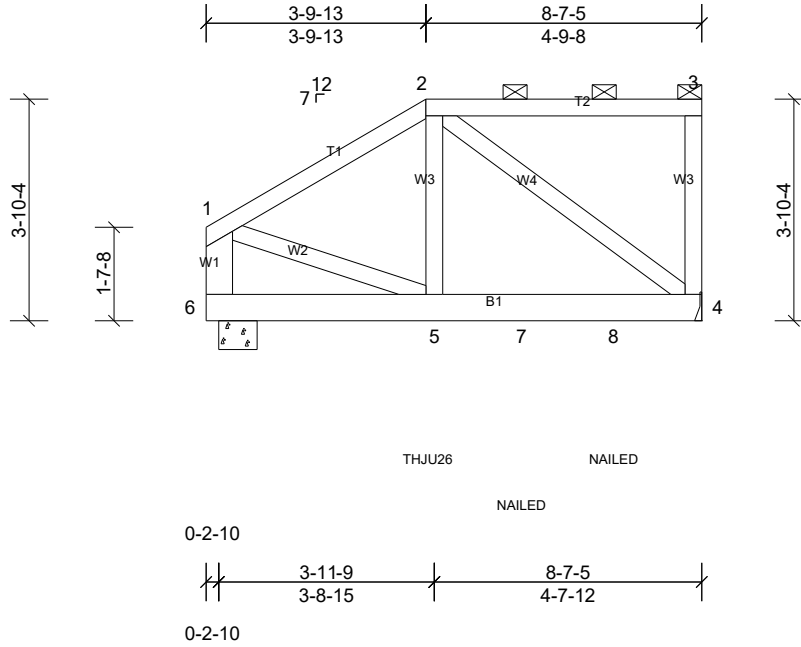


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	C8	Half Hip Girder	1	2	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	0.01	4-5	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	4-5	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 118 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 6-1:2x6 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.): 2-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=449/ Mechanical, 6=379/0-8-0, (min. 0-1-8)
Max Horiz 6=147 (LC 7)
Max Uplift 4=-371 (LC 5), 6=-261 (LC 8)
Max Grav 4=489 (LC 15), 6=428 (LC 15)

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

TOP CHORD 1-2=-483/307, 1-6=-422/287
BOT CHORD 5-7=-341/420, 7-8=-341/420, 4-8=-341/420
WEBS 2-5=-262/386, 2-4=-490/367, 1-5=-289/405

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust)
Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 371 lb uplift at joint 4 and 261 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.
- 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 THJU26 (SGL & SGL RC 2-PLY) or equivalent at 3-10-3 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S)

- Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-48, 2-3=-48, 4-6=-16
Concentrated Loads (lb)
Vert: 5=-138, 7=-66, 8=-97

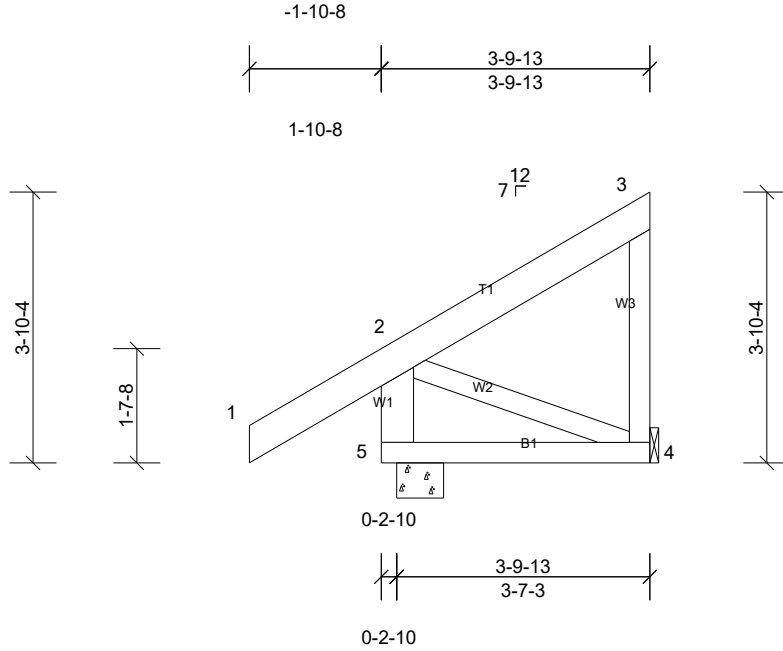


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	C9	Jack-Closed	2	1	

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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.01	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 34 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 5-2:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or
3-9-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (lb/size) 4=79/ Mechanical, 5=242/0-8-0,
(min. 0-1-8)
Max Horiz 5=164 (LC 7)
Max Uplift 4=-79 (LC 7), 5=-88 (LC 10)
Max Grav 4=124 (LC 17), 5=242 (LC 1)

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

NOTES

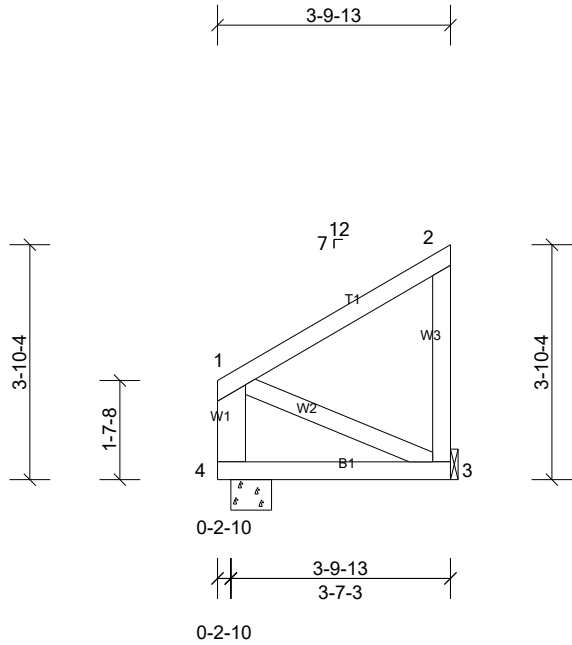
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=155mph (3-second gust)
Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 5 and 79 lb uplift at joint 4.
- 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

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	C10	Jack-Closed	1	1	



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.01	3-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	3-4	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 25 lb	FT = 20%

- LUMBER**
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except* 4-1:2x6 SP No.2
- BRACING**
 TOP CHORD Structural wood sheathing directly applied or 3-9-13 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (lb/size) 3=110/ Mechanical, 4=110/0-8-0, (min. 0-1-8)
 Max Horiz 4=145 (LC 9)
 Max Uplift 3=-84 (LC 7), 4=-22 (LC 10)
 Max Grav 3=154 (LC 17), 4=136 (LC 18)
- 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=25ft; Cat. II; Exp B; 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) 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) Refer to girder(s) for truss to truss connections.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 4 and 84 lb uplift at joint 3.
 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

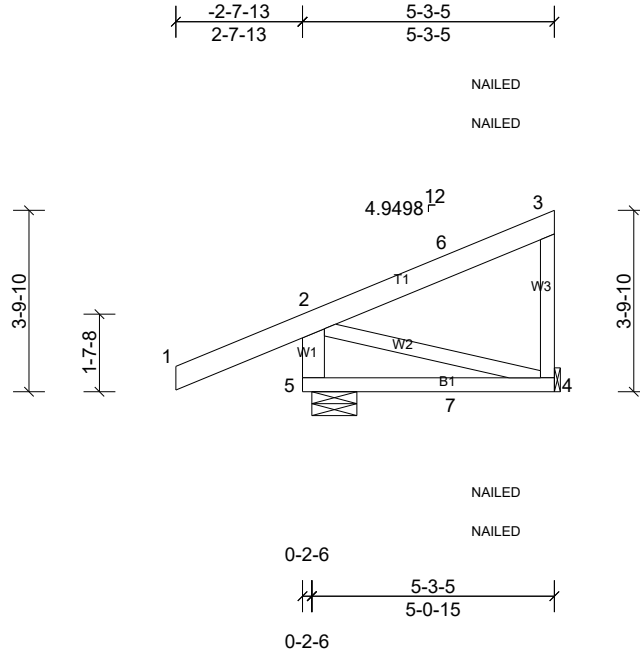
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	C11	Diagonal Hip Girder	1	1	

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Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:27

Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	0.05	4-5	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.05	4-5	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 42 lb FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except* 5-2:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-3-5 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 4=90/ Mechanical, 5=317/0-11-5, (min. 0-1-8)
 Max Horiz 5=177 (LC 7)
 Max Uplift 4=-172 (LC 5), 5=-235 (LC 4)
 Max Grav 4=155 (LC 15), 5=317 (LC 1)

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

TOP CHORD 2-5=-274/197

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=25ft; Cat. II; Exp B; 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
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 235 lb uplift at joint 5 and 172 lb uplift at joint 4.
- 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



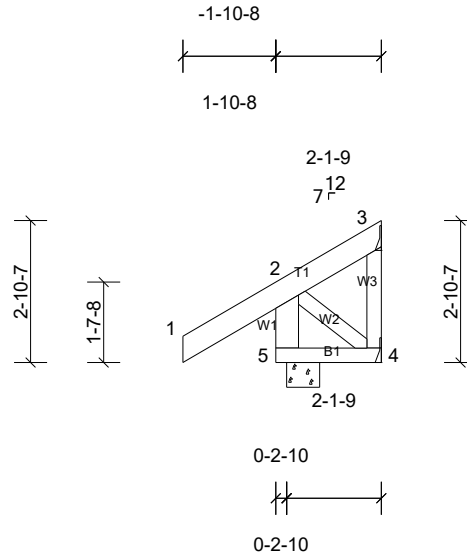
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	C12	Jack-Open Structural Gable	2	1	

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Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	4-5	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							
										Weight: 23 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 5-2:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-1-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(lb/size) 3=-18/ Mechanical, 4=14/ Mechanical, 5=218/0-8-0, (min. 0-1-8)
Max Horiz 5=149 (LC 9)
Max Uplift 3=-46 (LC 21), 4=-57 (LC 9), 5=-94 (LC 10)
Max Grav 3=35 (LC 6), 4=50 (LC 8), 5=218 (LC 1)

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=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- Truss designed for wind loads in the plane of the truss only.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 3, 94 lb uplift at joint 5 and 57 lb uplift at joint 4.

- 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



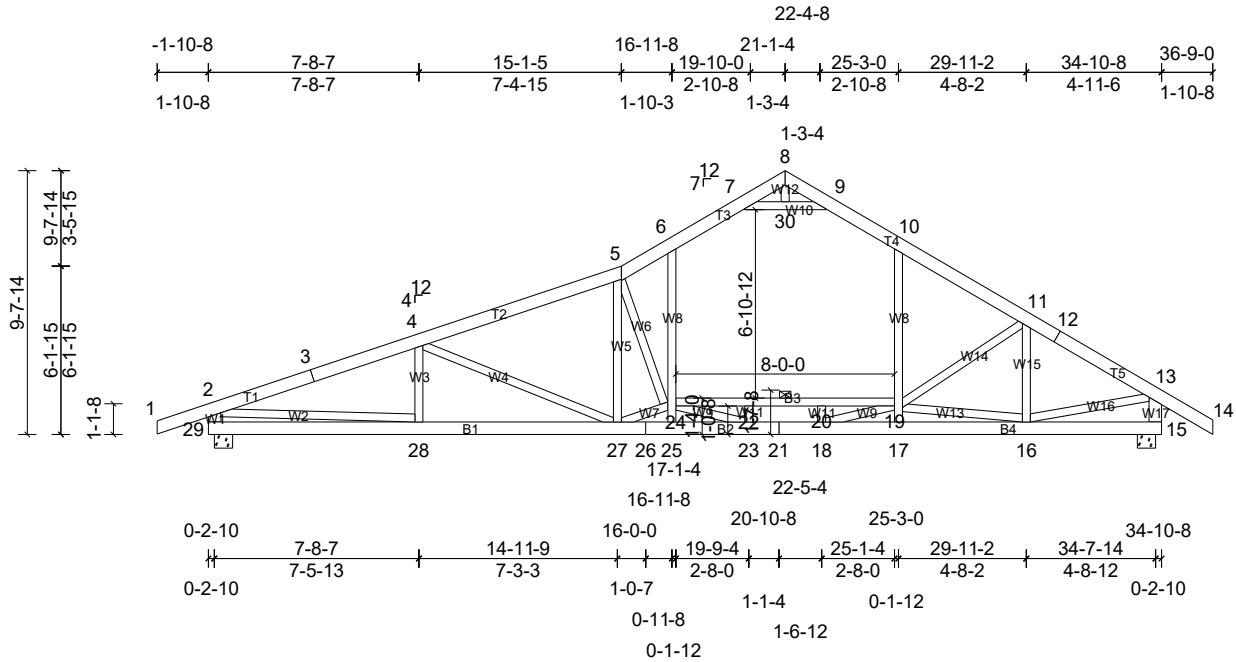
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	D1	Attic	4	1	

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Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:28

Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	0.24	25	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.44	22-24	>934	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.05	15	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.06	19-24	>999	360	Weight: 302 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 5-8,8-12:2x6 SP No.1
BOT CHORD 2x6 SP No.2 *Except* 24-19:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 6-25,10-17,7-9:2x4 SP No.2, 29-2,15-13:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-4-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-11-7 oc bracing.

REACTIONS (lb/size) 15=1326/0-8-0, (min. 0-1-11), 29=1286/0-8-0, (min. 0-1-8)
Max Horiz 29=328 (LC 9)
Max Uplift 15=268 (LC 11), 29=362 (LC 10)
Max Grav 15=1451 (LC 19), 29=1286 (LC 1)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2474/748, 3-4=-2416/768, 4-5=-2220/626, 5-6=-2046/576, 6-7=-1355/432, 7-8=-165/710, 8-9=-141/647, 9-10=-1421/456, 10-11=-1837/461, 11-12=-1617/425, 12-13=-1703/405, 2-29=-1205/578, 13-15=-1395/461
BOT CHORD 28-29=-285/583, 27-28=-591/2292, 26-27=-652/2350, 25-26=-652/2350, 23-25=-666/2366, 21-23=-212/2138, 18-21=-212/2138, 17-18=-292/1004, 16-17=-280/1015, 22-24=-676/133, 20-22=-676/133, 19-20=-676/133
WEBS 4-27=-392/302, 5-27=-224/541, 6-24=-335/1347, 10-19=-54/680, 7-30=-2366/720, 9-30=-2366/720, 8-30=-75/298, 2-28=-469/1722, 11-16=-444/141, 16-19=-224/708, 13-16=-251/1389, 18-20=-274/3, 23-24=-778/541, 18-19=-274/1589, 24-27=-554/346, 5-24=-1528/661

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=25ft; Cat. II; Exp B; 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) 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, 6-7, 9-10, 7-30, 9-30
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 22-24, 20-22, 19-20
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 362 lb uplift at joint 29 and 268 lb uplift at joint 15.
- 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

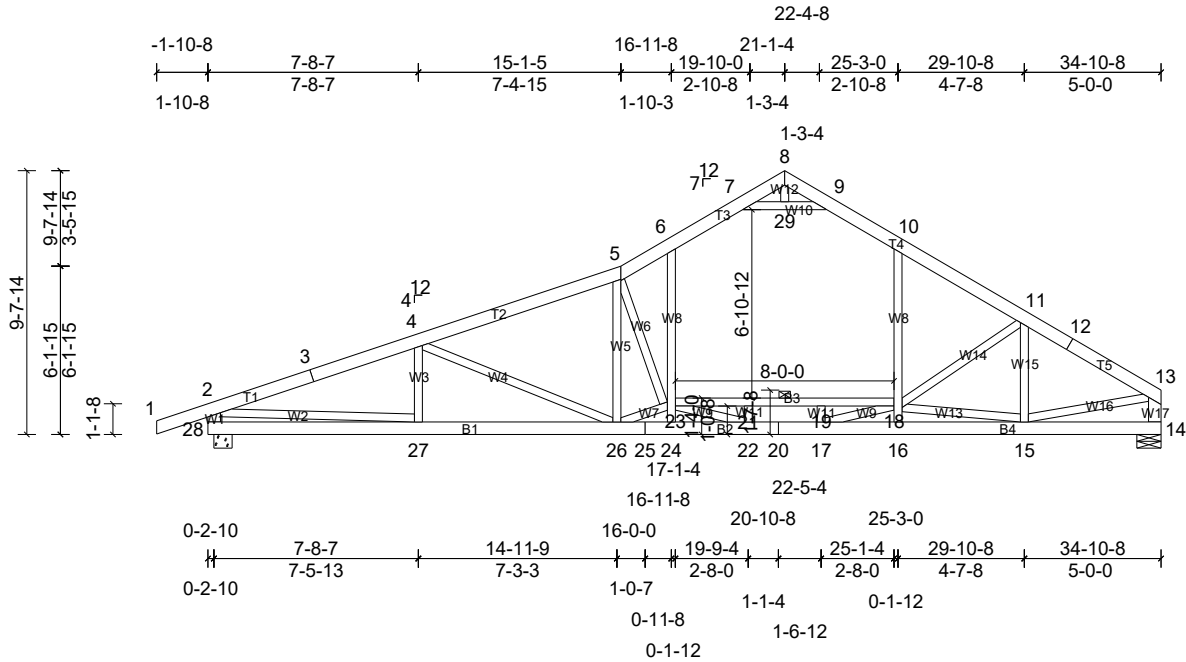


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	D2	Attic	1	1	

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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	0.24	24	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.44	21-23	>932	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.05	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.06	18-23	>999	360	Weight: 297 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 5-8,8-12:2x6 SP No.1
BOT CHORD 2x6 SP No.2 *Except* 23-18:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 6-24,10-16,7-9:2x4 SP No.2, 14-13,28-2:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-4-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-11-7 oc bracing.

REACTIONS (lb/size) 14=1222/0-10-10, (min. 0-1-9), 28=1289/0-8-0, (min. 0-1-8)
Max Horiz 28=317 (LC 7)
Max Uplift 14=-209 (LC 11), 28=-362 (LC 10)
Max Grav 14=1350 (LC 19), 28=1289 (LC 1)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2480/752, 3-4=-2422/773, 4-5=-2227/631, 5-6=-2054/586, 6-7=-1361/440, 7-8=-167/711, 8-9=-145/650, 9-10=-1426/463, 10-11=-1848/475, 11-12=-1640/438, 12-13=-1727/425, 13-14=-1292/345, 2-28=-1208/580
BOT CHORD 27-28=-306/579, 26-27=-673/2298, 25-26=-668/2353, 24-25=-668/2353, 22-24=-683/2368, 20-22=-275/2146, 17-20=-275/2146, 16-17=-329/1025, 15-16=-317/1037, 21-23=-675/111, 19-21=-675/111, 18-19=-675/111
WEBS 4-26=-391/302, 5-26=-221/540, 6-23=-341/1350, 10-18=-68/687, 7-29=-2375/732, 9-29=-2375/732, 8-29=-77/299, 11-15=-444/154, 15-18=-234/717, 13-15=-272/1387, 2-27=-480/1727, 17-19=-274/3, 22-23=-776/541, 17-18=-275/1588, 23-26=-551/339, 5-23=-1528/654

NOTES

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

- 2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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) 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, 6-7, 9-10, 7-29, 9-29
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 21-23, 19-21, 18-19
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 362 lb uplift at joint 28 and 209 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

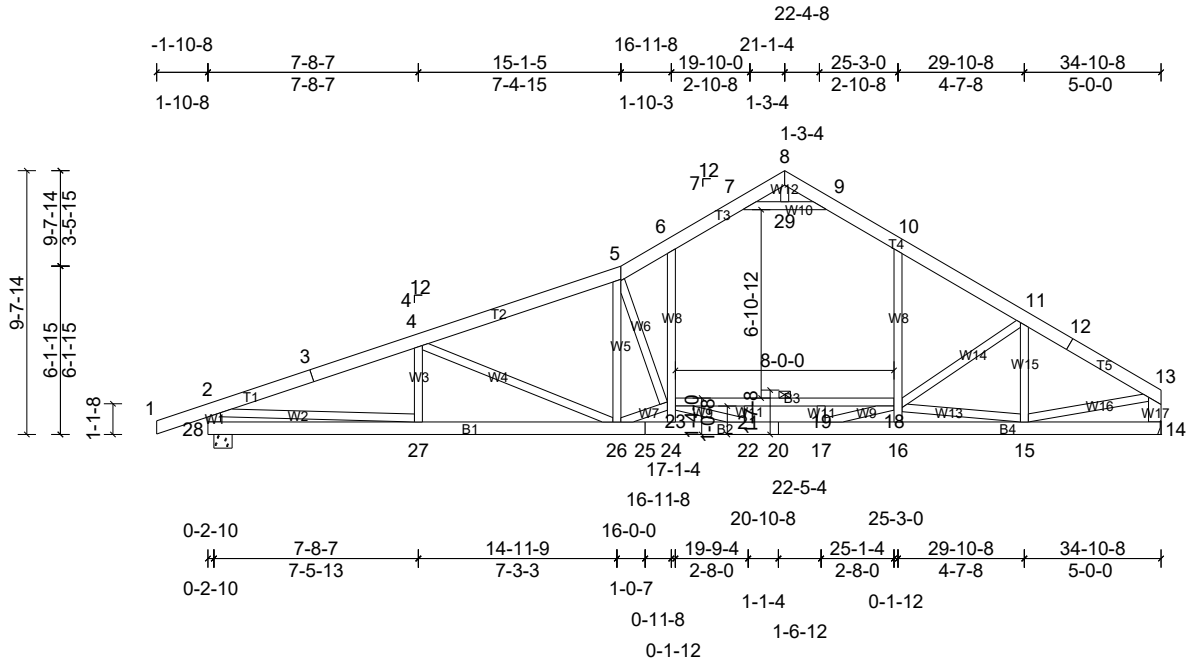


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	D3	Attic	4	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:29
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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	0.24	24	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.44	21-23	>932	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.05	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.06	18-23	>999	360	Weight: 297 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* 5-8,8-12:2x6 SP No.1
BOT CHORD 2x6 SP No.2 *Except* 23-18:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 6-24,10-16,7-9:2x4 SP No.2, 14-13,28-2:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-11-7 oc bracing.

REACTIONS (lb/size) 14=1222/ Mechanical, 28=1289/0-8-0, (min. 0-1-8)
Max Horiz 28=317 (LC 9)
Max Uplift 14=-209 (LC 11), 28=-362 (LC 10)
Max Grav 14=1350 (LC 19), 28=1289 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2480/752, 3-4=-2422/773, 4-5=-2227/631, 5-6=-2054/586, 6-7=-1361/440, 7-8=-167/711, 8-9=-145/650, 9-10=-1426/463, 10-11=-1848/475, 11-12=-1640/438, 12-13=-1727/425, 13-14=-1292/345, 2-28=-1208/580
BOT CHORD 27-28=-306/579, 26-27=-673/2298, 25-26=-668/2353, 24-25=-668/2353, 22-24=-683/2368, 20-22=-275/2146, 17-20=-275/2146, 16-17=-329/1025, 15-16=-317/1037, 21-23=-675/111, 19-21=-675/111, 18-19=-675/111
WEBS 4-26=-391/302, 5-26=-221/540, 6-23=-341/1350, 10-18=-68/687, 7-29=-2375/732, 9-29=-2375/732, 8-29=-77/299, 11-15=-444/154, 15-18=-234/717, 13-15=-272/1387, 2-27=-480/1727, 17-19=-274/3, 22-23=-776/541, 17-18=-275/1588, 23-26=-551/339, 5-23=-1528/654

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

- 2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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) 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, 6-7, 9-10, 7-29, 9-29
 - 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 21-23, 19-21, 18-19
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 362 lb uplift at joint 28 and 209 lb uplift at joint 14.
 - 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) Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

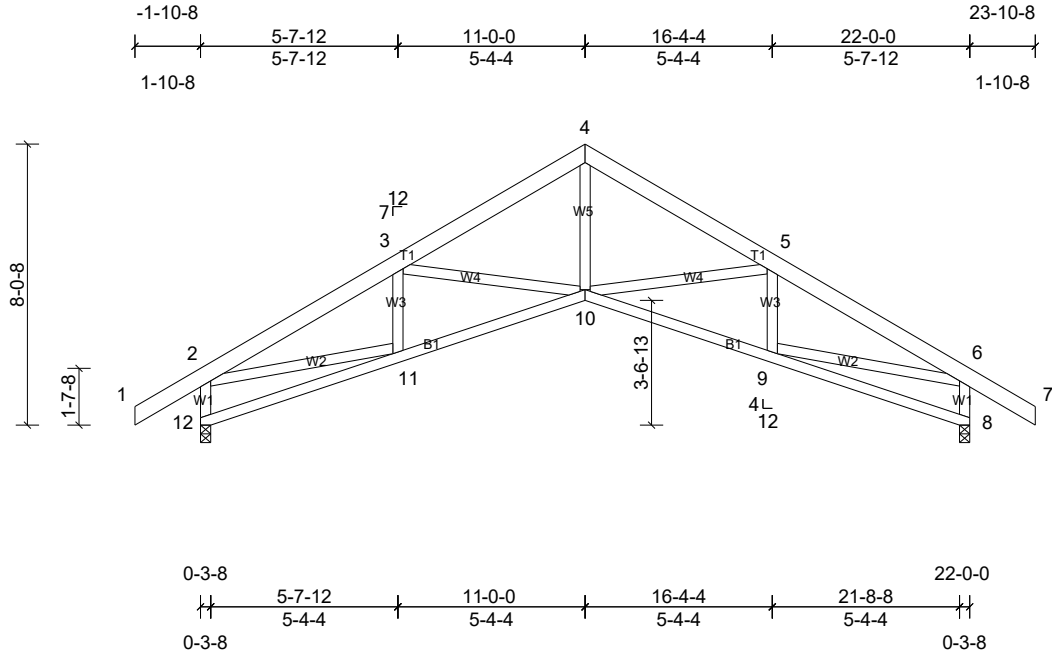


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	E1	Scissor	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:30
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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	0.05	10-11	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.10	9-10	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.08	8	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 152 lb FT = 20%

LUMBER

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

BRACING

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

REACTIONS (lb/size) 8=791/0-3-8, (min. 0-1-8),
12=791/0-3-8, (min. 0-1-8)
Max Horiz 12=-266 (LC 8)
Max Uplift 8=-251 (LC 11), 12=-251 (LC 10)

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

TOP CHORD 2-3=-1348/373, 3-4=-1163/271,
4-5=-1163/298, 5-6=-1348/353,
2-12=-782/360, 6-8=-765/360
BOT CHORD 11-12=-244/316, 10-11=-336/1290,
9-10=-172/1150
WEBS 4-10=-153/894, 5-10=-278/259,
3-10=-278/237, 2-11=-205/1009,
6-9=-143/1009

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust)
Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 12, 8 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 251 lb uplift at joint 12 and 251 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.

LOAD CASE(S) Standard

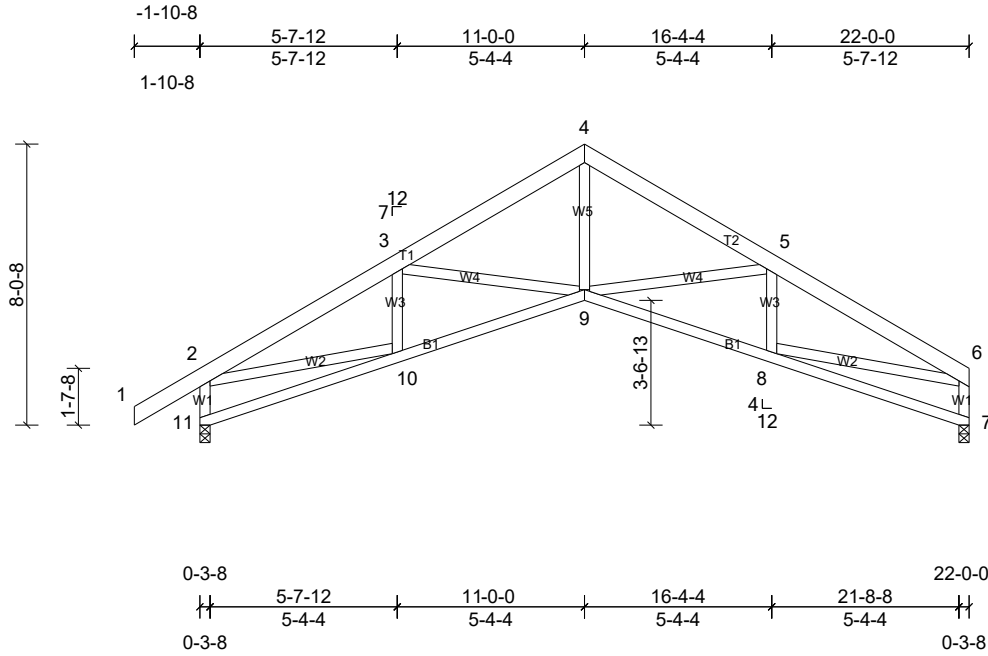


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	E2	Scissor	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:30
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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	0.05	9-10	>999	240	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.11	8-9	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.09	7	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 147 lb FT = 20%

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

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.

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-8 oc bracing.

REACTIONS (lb/size) 7=690/0-3-8, (min. 0-1-8),
11=796/0-3-8, (min. 0-1-8)
Max Horiz 11=255 (LC 7)
Max Uplift 7=-193 (LC 11), 11=-251 (LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1323/416, 3-4=-1152/348,
4-5=-1154/350, 5-6=-1329/426,
2-11=-780/387, 6-7=-694/261
BOT CHORD 10-11=-251/293, 9-10=-374/1268,
8-9=-266/1160
WEBS 4-9=-183/860, 5-9=-286/258, 3-9=-286/232,
2-10=-219/1018, 6-8=-249/1029

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=25ft; Cat. II; Exp B; 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) 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) 11, 7 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 251 lb uplift at joint 11 and 193 lb uplift at joint 7.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



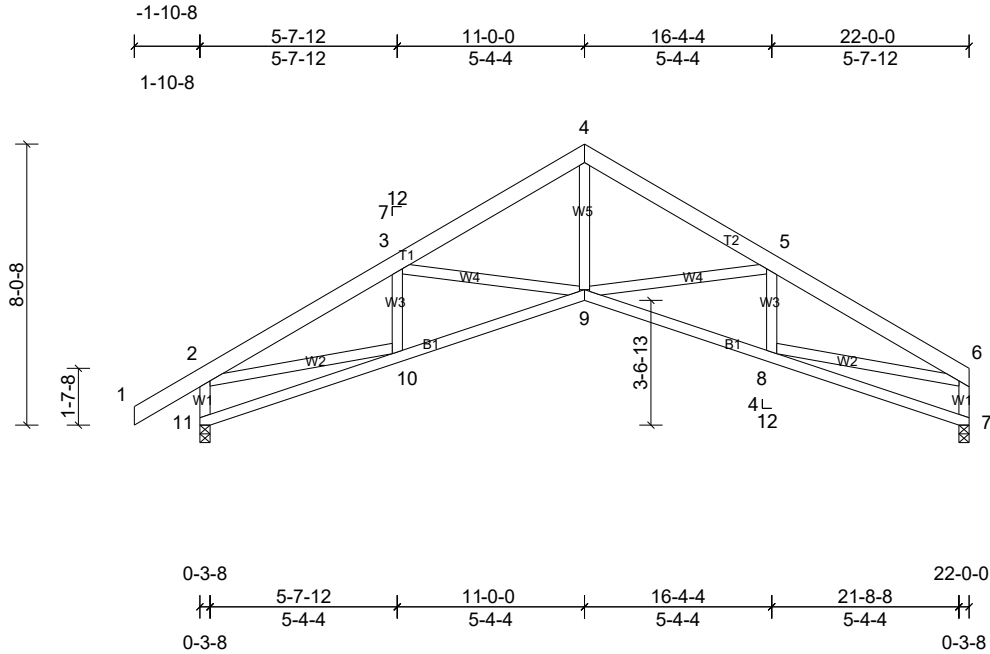
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	E3	Scissor	4	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:31

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	0.05	9-10	>999	240	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.11	8-9	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.09	7	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 147 lb FT = 20%

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

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-8 oc bracing.

REACTIONS (lb/size) 7=690/0-3-8, (min. 0-1-8),
11=796/0-3-8, (min. 0-1-8)
Max Horiz 11=255 (LC 7)
Max Uplift 7=-193 (LC 11), 11=-251 (LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1323/416, 3-4=-1152/348,
4-5=-1154/350, 5-6=-1329/426,
2-11=-780/387, 6-7=-694/261
BOT CHORD 10-11=-251/293, 9-10=-374/1268,
8-9=-266/1160
WEBS 4-9=-183/860, 5-9=-286/258, 3-9=-286/232,
2-10=-219/1018, 6-8=-249/1029

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 11, 7 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 251 lb uplift at joint 11 and 193 lb uplift at joint 7.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

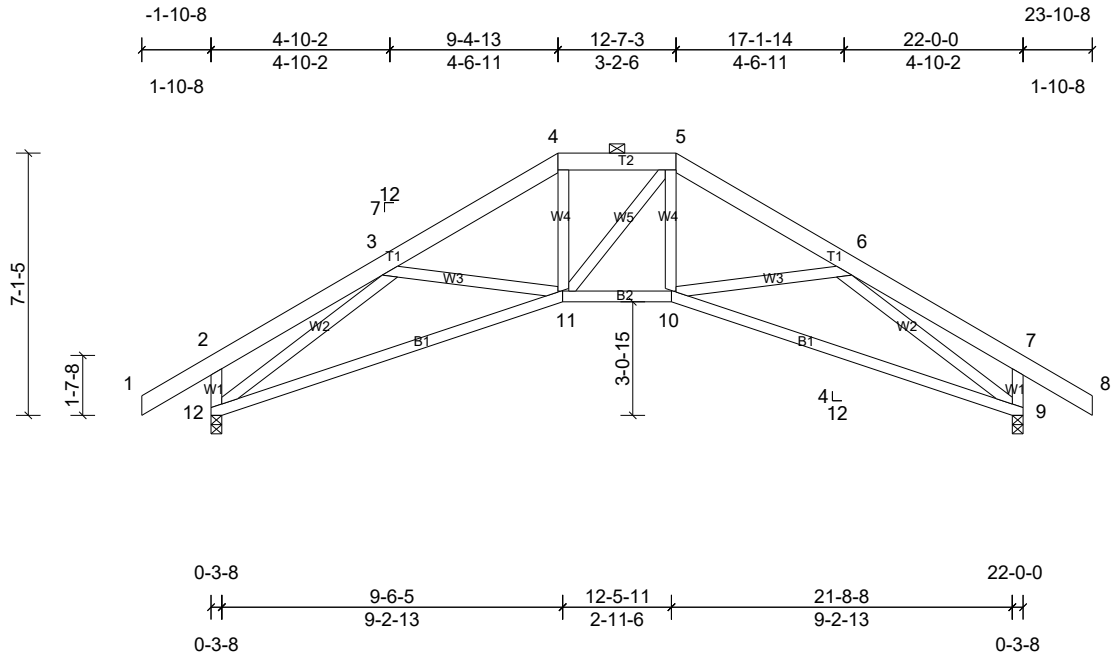


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	E4	Hip	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:31
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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.23	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.46	9-10	>561	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.10	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 155 lb	FT = 20%

LUMBER	
TOP CHORD	2x6 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD	Rigid ceiling directly applied or 9-9-4 oc bracing.
REACTIONS	(lb/size) 9=791/0-3-8, (min. 0-1-8), 12=791/0-3-8, (min. 0-1-8) Max Horiz 12=-241 (LC 8) Max Uplift 9=-241 (LC 11), 12=-241 (LC 10)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	3-4=-1200/308, 4-5=-1036/311, 5-6=-1198/309, 2-12=-322/258, 7-9=-313/258
BOT CHORD	11-12=-330/1079, 10-11=-74/1008, 9-10=-202/1003
WEBS	4-11=-24/414, 5-10=-44/416, 3-12=-1101/322, 6-9=-1101/292

- 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=25ft; Cat. II; Exp B; 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) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 6) Bearing at joint(s) 12, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 241 lb uplift at joint 12 and 241 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) 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

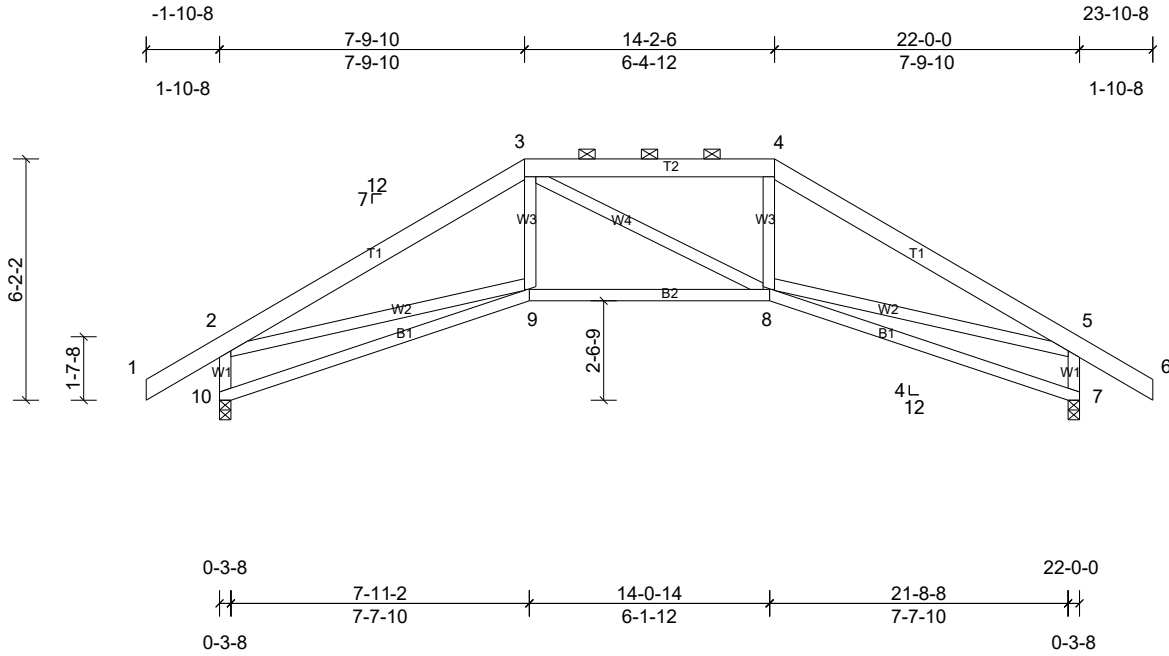


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	E5	Hip	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.11	9-10	>999	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.23	9-10	>999	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.07	7	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 147 lb FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-11-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 7=791/0-3-8, (min. 0-1-8),
10=791/0-3-8, (min. 0-1-8)
Max Horiz 10=-215 (LC 8)
Max Uplift 7=-227 (LC 11), 10=-227 (LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1331/349, 3-4=-1074/369,
4-5=-1332/348, 2-10=-772/399, 5-7=-772/399
BOT CHORD 9-10=-208/342, 8-9=-286/1072
WEBS 3-9=-11/371, 4-8=-21/370, 2-9=-101/934,
5-8=-198/936

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) 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) 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=25ft; Cat. II; Exp B; 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) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 10, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 227 lb uplift at joint 10 and 227 lb uplift at joint 7.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

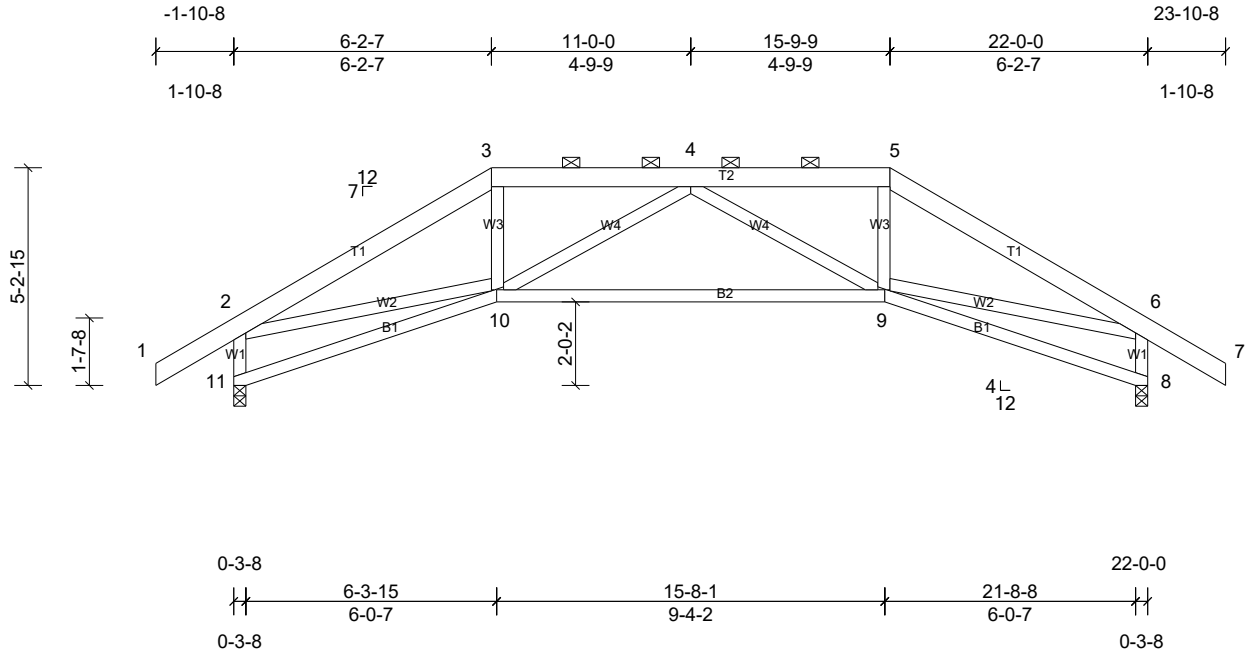


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	E6	Hip	1	1	

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Loading	(psf)	Spacing		CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.23	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.49	9-10	>536	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 145 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 8-7-5 oc bracing.

REACTIONS (lb/size) 8=791/0-3-8, (min. 0-1-8),
11=791/0-3-8, (min. 0-1-8)
Max Horiz 11=-189 (LC 8)
Max Uplift 8=-211 (LC 11), 11=-211 (LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1310/370, 3-4=-1074/372,
4-5=-1074/372, 5-6=-1310/370,
2-11=-770/385, 6-8=-770/385
BOT CHORD 9-10=-427/1265
WEBS 3-10=-44/408, 4-10=-286/266, 4-9=-286/264,
5-9=-78/408, 2-10=-187/992, 6-9=-218/992

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 211 lb uplift at joint 11 and 211 lb uplift at joint 8.
- 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) 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) 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=25ft; Cat. II; Exp B; 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) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 11, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



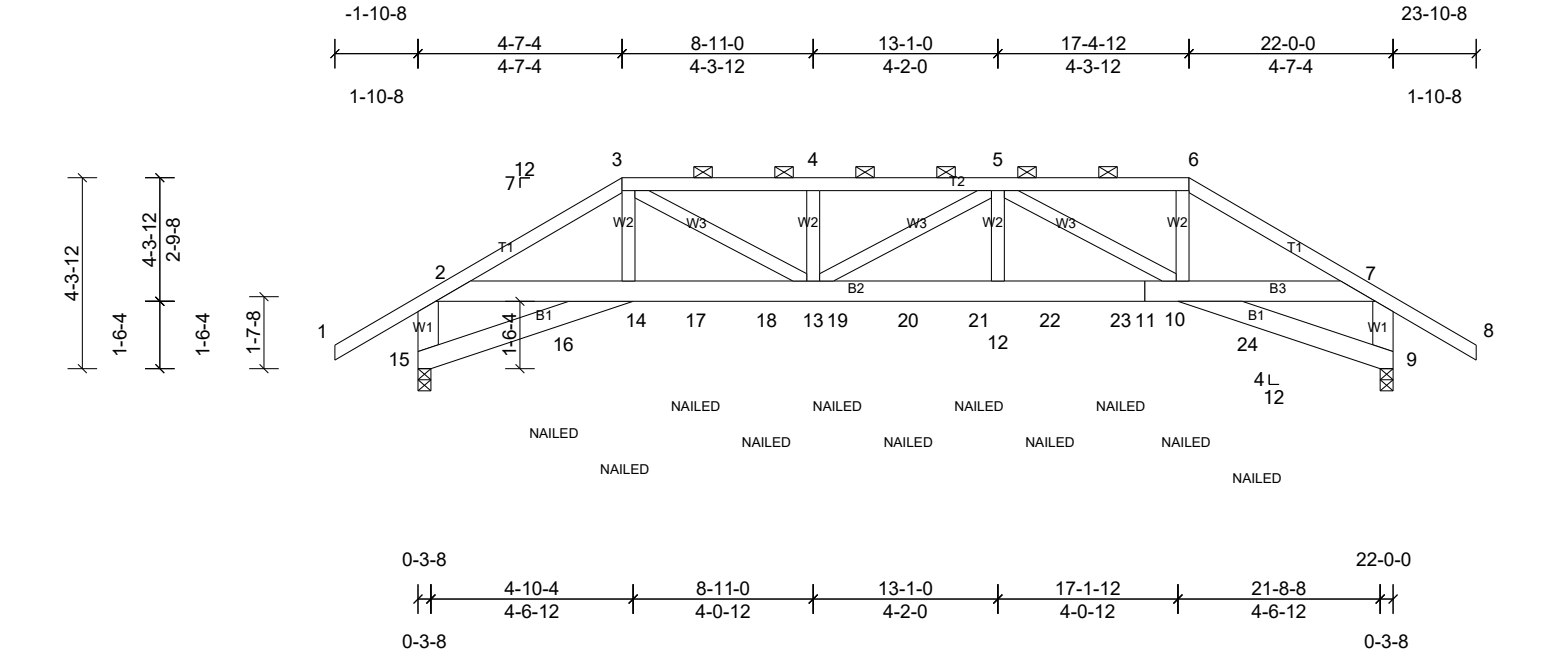
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	E7	Hip Girder	1	2	

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Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:33

Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	0.10	12-13	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.11	12-13	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.06	9	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 304 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.3 *Except* 15-2,9-7:2x6 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.); 3-6.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 9=1333/0-3-8, (min. 0-1-8), 15=1329/0-3-8, (min. 0-1-8)

Max Horiz 15=-170 (LC 6)

Max Uplift 9=-669 (LC 4), 15=-665 (LC 5)

Max Grav 9=1391 (LC 16), 15=1385 (LC 15)

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

TOP CHORD 2-3=-2472/1352, 3-4=-3147/1771, 4-5=-3147/1771, 5-6=-2139/1132, 6-7=-2464/1258, 2-15=-1474/764, 7-9=-1436/719

BOT CHORD 15-16=-294/430, 14-16=-312/480, 2-14=-923/1807, 14-17=-1220/2176, 17-18=-1220/2176, 13-18=-1220/2176, 13-19=-1775/3228, 19-20=-1775/3228, 20-21=-1775/3228, 12-21=-1775/3228, 12-22=-1775/3228, 22-23=-1775/3228, 11-23=-1775/3228, 10-11=-1775/3228, 7-10=-957/1798, 10-24=-168/389, 9-24=-154/334

WEBS 3-14=-264/547, 3-13=-737/1215, 5-12=-208/485, 6-10=-591/1128, 5-10=-1218/743

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
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=25ft; Cat. II; Exp B; 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) Provide adequate drainage to prevent water ponding.

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

* 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) 15, 9 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 665 lb uplift at joint 15 and 669 lb uplift at joint 9.

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) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-48, 2-3=-48, 3-6=-48, 6-7=-48, 7-8=-48, 14-15=-16, 10-14=-16, 9-10=-16

Concentrated Loads (lb)

Vert: 14=-99 (B), 10=-99 (B), 16=-95 (B), 17=-99 (B), 18=-99 (B), 19=-99 (B), 20=-99 (B), 21=-99 (B), 22=-99 (B), 23=-99 (B), 24=-95 (B)

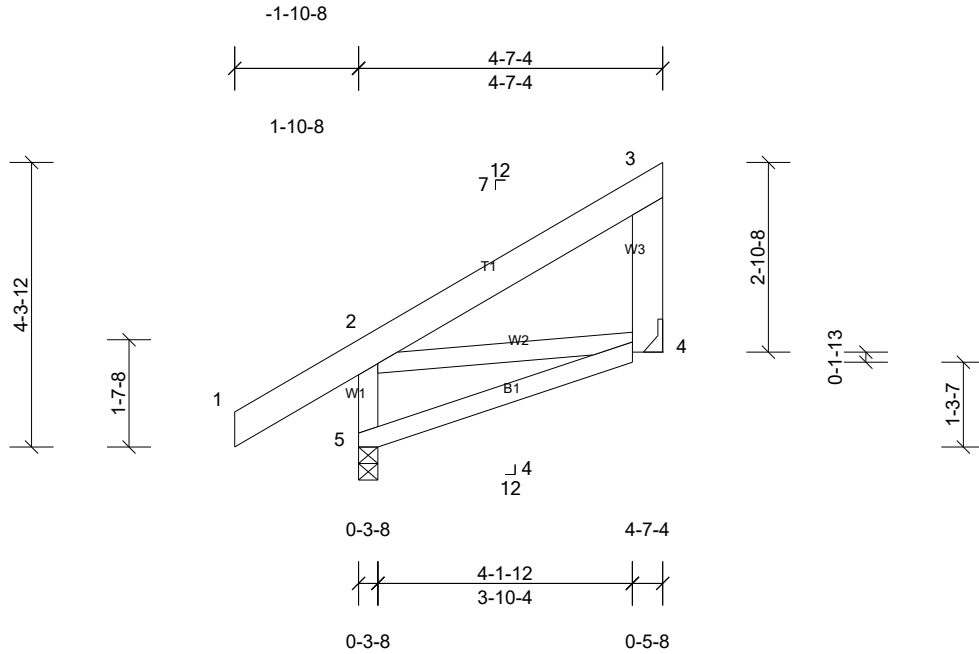
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	E8	Jack-Closed	9	1	

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Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:33

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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.02	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.03	4-5	>999	180		
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-MP							Weight: 38 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except* 3-4:2x6 SP No.2

BRACING

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

REACTIONS (lb/size) 4=112/ Mechanical, 5=255/0-3-8, (min. 0-1-8)
 Max Horiz 5=158 (LC 7)
 Max Uplift 4=-81 (LC 7), 5=-84 (LC 10)
 Max Grav 4=157 (LC 17), 5=255 (LC 1)

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=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 5 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 84 lb uplift at joint 5 and 81 lb uplift at joint 4.
- 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

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

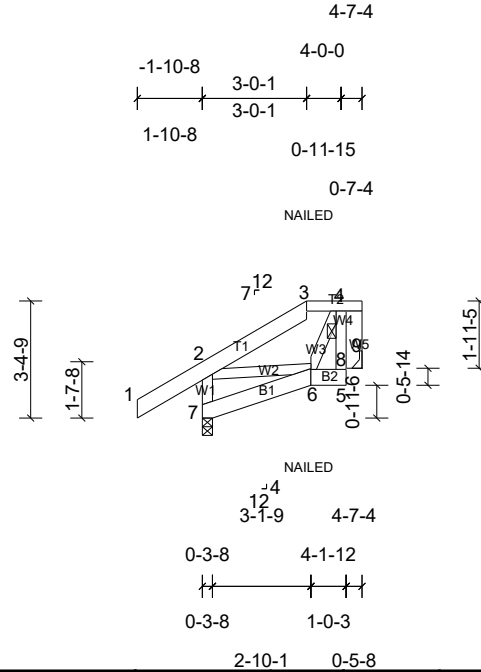


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	E9	Half Hip Girder	2	1	

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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	0.00	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 41 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 3-4:2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 4-8:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-7-4 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 7=259/0-3-8, (min. 0-1-8), 9=95/
Mechanical
Max Horiz 7=100 (LC 5)
Max Uplift 7=-96 (LC 8), 9=-98 (LC 8)
Max Grav 7=259 (LC 15), 9=129 (LC 15)

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

TOP CHORD 2-7=-251/146

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust)
Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 96 lb uplift at joint 7 and 98 lb uplift at joint 9.

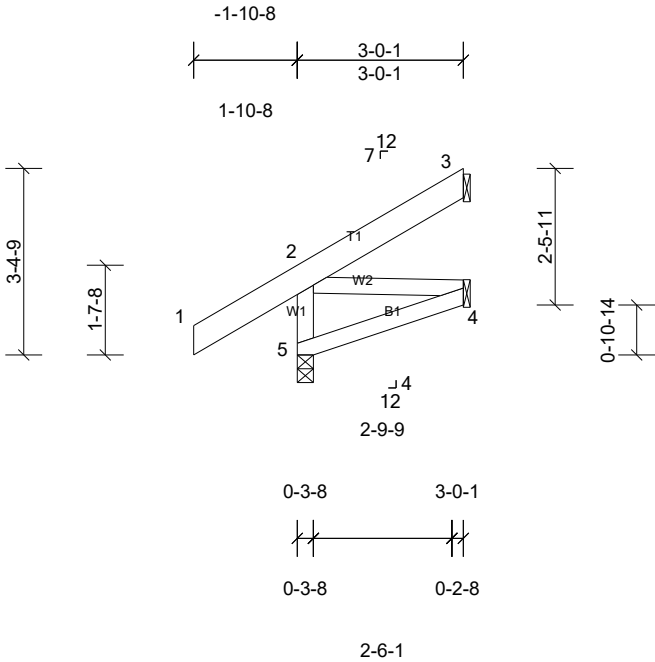
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-48, 2-3=-48, 3-4=-48, 6-7=-16, 5-6=-16
Concentrated Loads (lb)
Vert: 6=-10 (B)



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	E10	Jack-Open	2	1	



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 24 lb	FT = 20%

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

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.
LOAD CASE(S) Standard

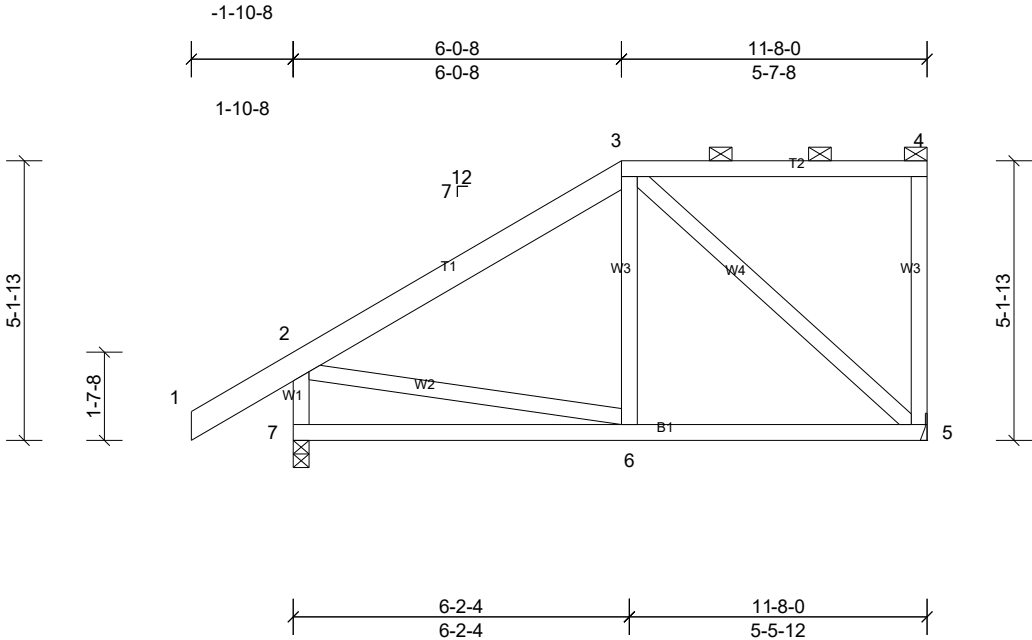
- BRACING**
 TOP CHORD Structural wood sheathing directly applied or 3-0-1 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

- REACTIONS** (lb/size) 3=32/ Mechanical, 4=23/ Mechanical, 5=222/0-3-8, (min. 0-1-8)
 Max Horiz 5=96 (LC 10)
 Max Uplift 3=-39 (LC 10), 4=-35 (LC 10), 5=-51 (LC 10)
 Max Grav 3=42 (LC 17), 4=50 (LC 8), 5=222 (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=25ft; Cat. II; Exp B; 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) 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) Refer to girder(s) for truss to truss connections.
 6) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 5, 39 lb uplift at joint 3 and 35 lb uplift at joint 4.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	G1	Half Hip	2	1	



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.02	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.05	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 82 lb	FT = 20%

LUMBER		
TOP CHORD	2x6 SP No.2	*Except* 3-4:2x4 SP No.2
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.3	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS		(lb/size) 5=355/ Mechanical, 7=469/0-3-8, (min. 0-1-8)
		Max Horiz 7=228 (LC 7)
		Max Uplift 5=-156 (LC 7), 7=-156 (LC 10)
FORCES		(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-347/170, 2-7=-425/295	
WEBS	3-5=-295/130	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 156 lb uplift at joint 7 and 156 lb uplift at joint 5.
 - 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) 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

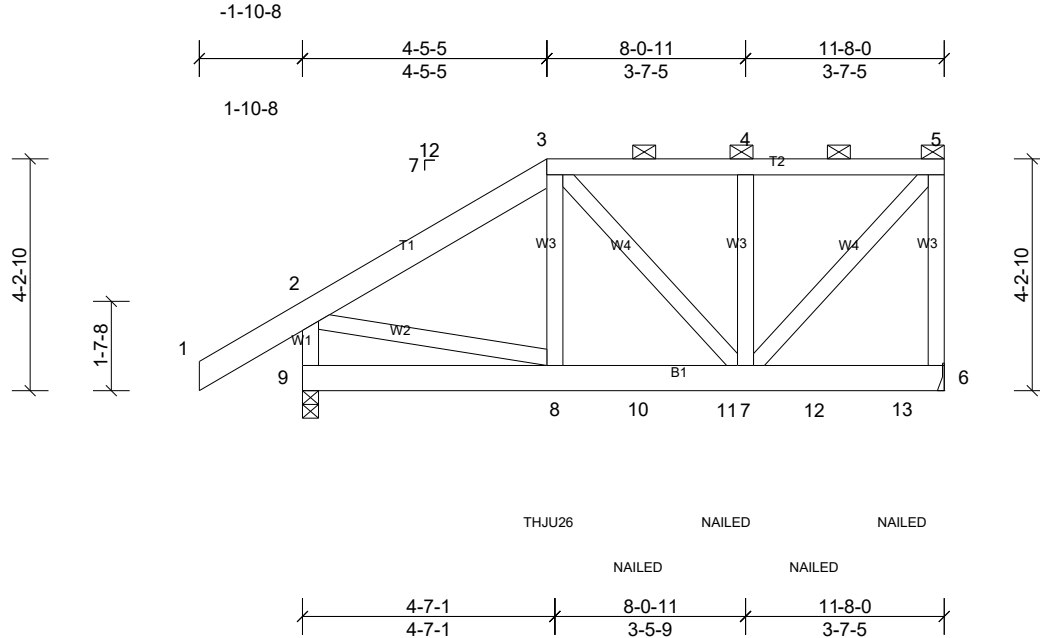
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	G2	Half Hip Girder	2	2	

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Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:35

Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	0.01	7-8	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	7-8	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	6	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 185 lb FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2 *Except* 3-5:2x4 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, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS	(lb/size)	6=732/ Mechanical, 9=716/0-3-8, (min. 0-1-8)
	Max Horiz	9=184 (LC 5)
	Max Uplift	6=-513 (LC 5), 9=-393 (LC 8)
	Max Grav	6=801 (LC 17), 9=753 (LC 15)

FORCES

TOP CHORD	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
	2-3=-759/403, 3-4=-570/336, 4-5=-570/336, 5-6=-631/429, 2-9=-719/410
BOT CHORD	8-10=-441/631, 10-11=-441/631, 7-11=-441/631
WEBS	3-8=-190/327, 5-7=-513/780, 2-8=-341/619

NOTES

- 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: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust)
Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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

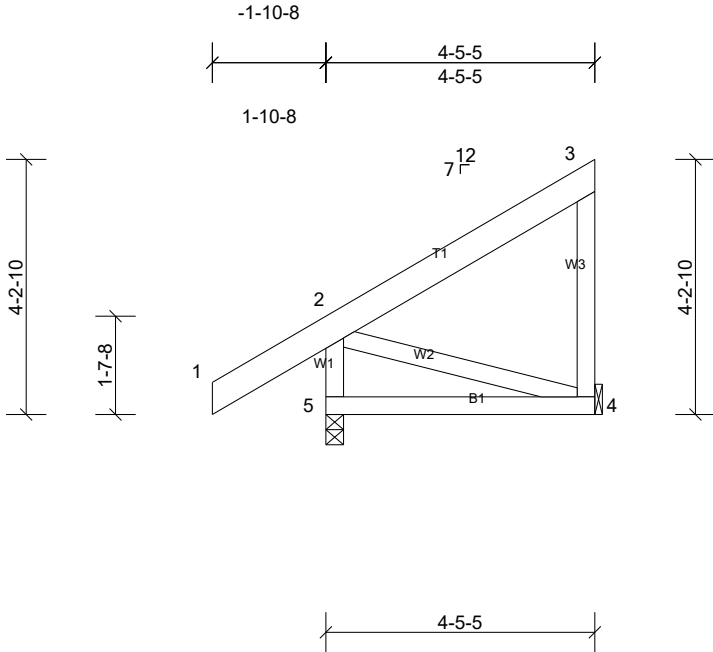
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 513 lb uplift at joint 6 and 393 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.
- 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 THJU26 (SGL & SGL LC 2-PLY) or equivalent at 4-5-11 from the left end to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-48, 2-3=-48, 3-5=-48, 6-9=-16
Concentrated Loads (lb)
Vert: 8=-238, 10=-96, 11=-96, 12=-96, 13=-98



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	G3	Jack-Closed	10	1	



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.01	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.03	4-5	>999	180		
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-MP							Weight: 37 lb	FT = 20%

- LUMBER**
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
- BRACING**
 TOP CHORD Structural wood sheathing directly applied or 4-5-5 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (lb/size) 4=109/ Mechanical, 5=253/0-3-8, (min. 0-1-8)
 Max Horiz 5=179 (LC 7)
 Max Uplift 4=-82 (LC 7), 5=-89 (LC 10)
 Max Grav 4=154 (LC 17), 5=253 (LC 1)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

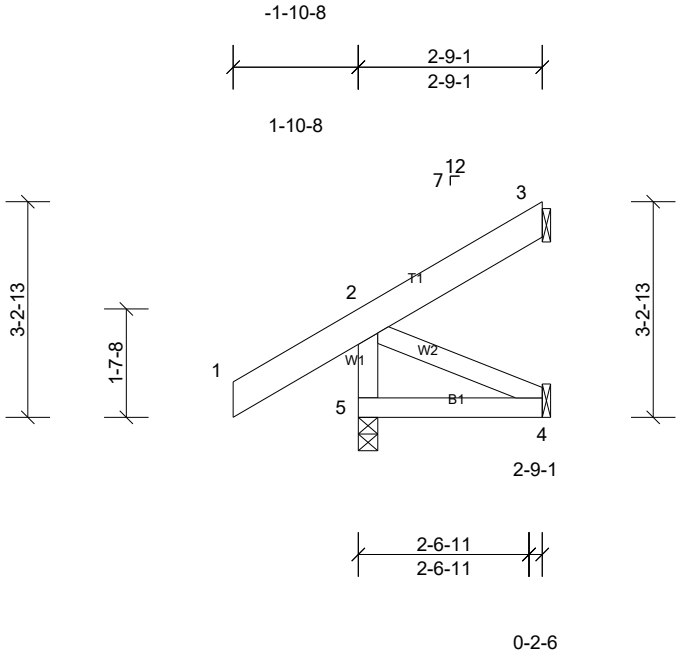
- NOTES**
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) 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) Refer to girder(s) for truss to truss connections.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 5 and 82 lb uplift at joint 4.
 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

Page: 1

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	G5	Jack-Open	4	1	



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	0.00	4-5	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	4-5	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 23 lb FT = 20%

- LUMBER**
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
- BRACING**
 TOP CHORD Structural wood sheathing directly applied or 2-9-1 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (lb/size) 3=23/ Mechanical, 4=21/ Mechanical, 5=217/0-3-8, (min. 0-1-8)
 Max Horiz 5=90 (LC 10)
 Max Uplift 3=-30 (LC 10), 4=-37 (LC 10), 5=-52 (LC 10)
 Max Grav 3=31 (LC 17), 4=48 (LC 8), 5=217 (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=25ft; Cat. II; Exp B; 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) 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) Refer to girder(s) for truss to truss connections.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 5, 30 lb uplift at joint 3 and 37 lb uplift at joint 4.
 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

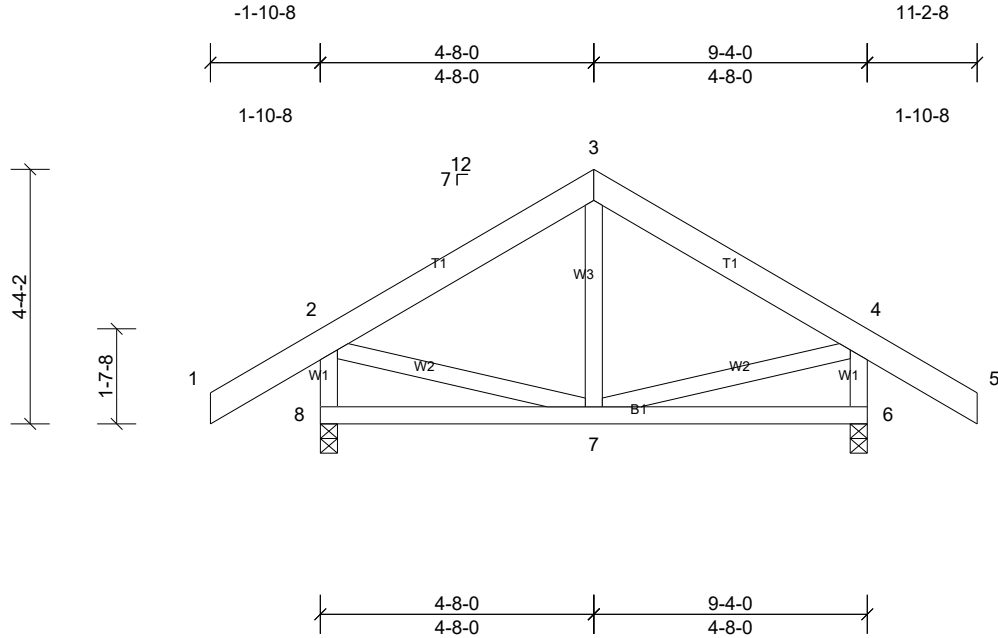
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	H1	Common	2	1	

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Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:36

Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.01	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.01	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 72 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (lb/size) 6=386/0-3-8, (min. 0-1-8),
8=386/0-3-8, (min. 0-1-8)
Max Horiz 8=161 (LC 9)
Max Uplift 6=-138 (LC 11), 8=-138 (LC 10)

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

TOP CHORD 2-3=-276/121, 3-4=-276/121, 2-8=-354/253, 4-6=-354/253

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 8 and 138 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.

LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



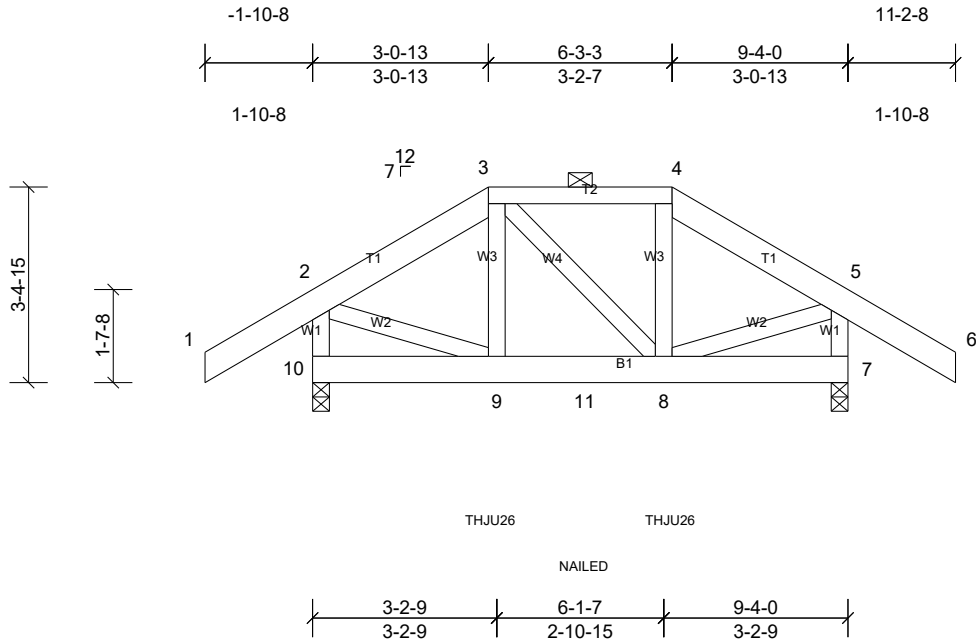
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	H2	Hip Girder	1	2	

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Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:36

Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	8-9	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	8-9	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00	7	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 158 lb FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 3-4:2x4 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, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(lb/size) 7=506/0-3-8, (min. 0-1-8),
10=506/0-3-8, (min. 0-1-8)
Max Horiz 10=-134 (LC 6)
Max Uplift 7=-319 (LC 9), 10=-317 (LC 8)
Max Grav 7=512 (LC 16), 10=510 (LC 15)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-395/284, 3-4=-314/270, 4-5=-398/286, 2-10=-490/331, 5-7=-492/332
BOT CHORD 9-11=-266/355, 8-11=-266/355
WEBS 2-9=-239/350, 5-8=-244/353

NOTES

- 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: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 317 lb uplift at joint 10 and 319 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.
- Use Simpson Strong-Tie THJU26 (SGL & SGL LC 2-PLY) or equivalent at 3-1-3 from the left end to connect truss(es) to front face of bottom chord.
- Use Simpson Strong-Tie THJU26 (SGL & SGL RC 2-PLY) or equivalent at 6-2-13 from the left end to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

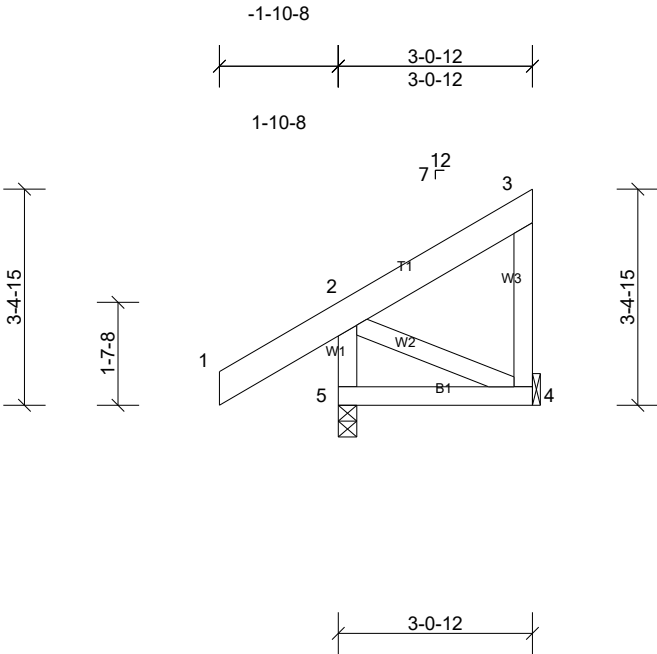
LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-48, 2-3=-48, 3-4=-48, 4-5=-48, 5-6=-48, 7-10=-16
Concentrated Loads (lb)
Vert: 9=-100, 8=-100, 11=-40

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	H3	Jack-Closed	3	1	



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 28 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=53/ Mechanical, 5=221/0-3-8, (min. 0-1-8)
 Max Horiz 5=145 (LC 7)
 Max Uplift 4=-72 (LC 7), 5=-84 (LC 10)
 Max Grav 4=95 (LC 8), 5=221 (LC 1)

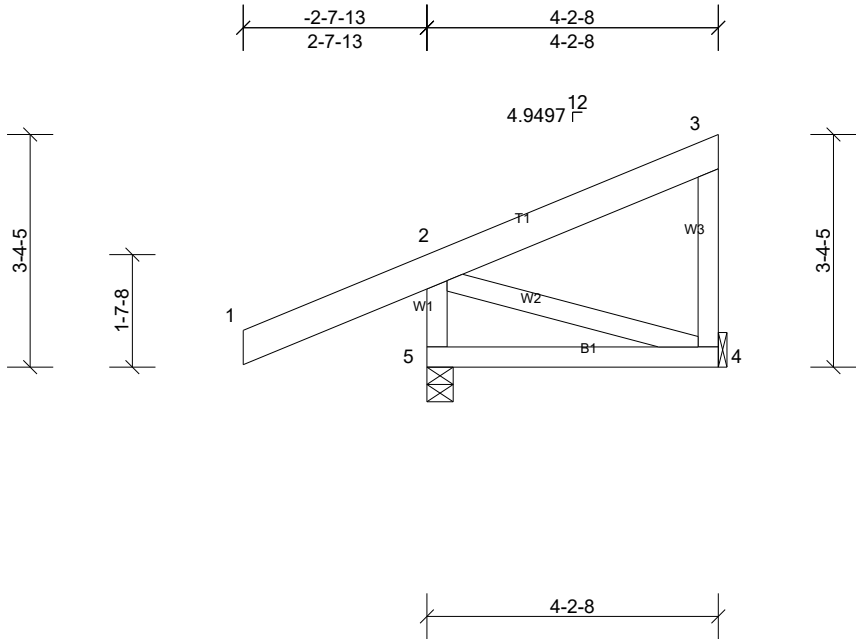
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 5 and 72 lb uplift at joint 4.
- 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	Job Reference (optional)
24091249	H4	Jack-Closed	2	1	



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.01	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.02	4-5	>999	180		
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-MP							Weight: 35 lb	FT = 20%

- LUMBER**
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
- BRACING**
 TOP CHORD Structural wood sheathing directly applied or 4-2-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (lb/size) 4=77/ Mechanical, 5=307/0-4-9, (min. 0-1-8)
 Max Horiz 5=156 (LC 9)
 Max Uplift 4=-61 (LC 7), 5=-160 (LC 6)
 Max Grav 4=78 (LC 3), 5=307 (LC 1)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-276/333

- 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=25ft; Cat. II; Exp B; 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) 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) Refer to girder(s) for truss to truss connections.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 160 lb uplift at joint 5 and 61 lb uplift at joint 4.
 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.

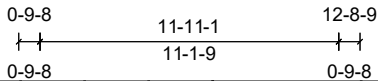
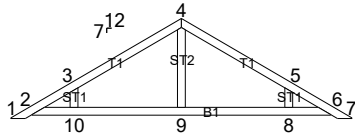
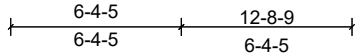
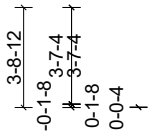
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	PA1	Piggyback	10	1	

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Run: 8.83 S Apr 11 2025
 Print: 8.830 S Apr 11 2025
 MiTek Industries, Inc.
 Fri Aug 15 16:22:37
 Page: 1

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Loading	(psf)	Spacing	1-7-3	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	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	14	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 45 lb FT = 20%

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

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.

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.

LOAD CASE(S) Standard

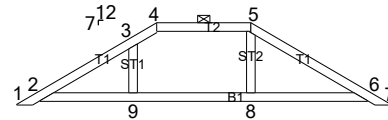
REACTIONS All bearings 12-9-7.
 (lb) - Max Horiz 1=-100 (LC 6)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 6, 7, 9 except 8=-163 (LC 11), 10=-162 (LC 10)
 Max Grav All reactions 250 (lb) or less at joint (s) 1, 2, 6, 7, 9 except 8=275 (LC 18), 10=276 (LC 17)

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

WEBS 3-10=-255/208, 5-8=-254/208

- 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=25ft; Cat. II; Exp B; 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 100 lb uplift at joint (s) 1, 7, 6, 9, 6 except (jt=lb) 10=162, 8=163.

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:38 Page: 1
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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=25ft; Cat. II; Exp B; 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) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 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 3'-0" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 6, 8, 9, 2, 6.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCE and Truss Plate Institute.

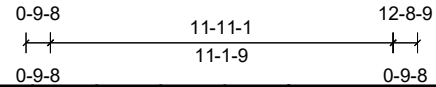
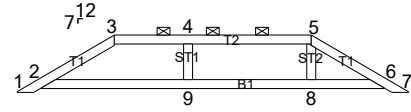
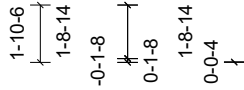
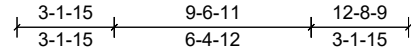


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	PA3	Piggyback	2	1	

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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/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	0.11	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	7	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 40 lb FT = 20%

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

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.

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

11) See standard piggyback truss connection detail for connection to base truss.
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 All bearings 12-9-7.
(lb) - Max Horiz 1=-48 (LC 6)
Max Uplift All uplift 100 (lb) or less at joint(s) 6, 7, 8 except 1=-145 (LC 17), 2=-124 (LC 10), 9=-102 (LC 7)
Max Grav All reactions 250 (lb) or less at joint (s) 1, 6, 7, 8 except 2=356 (LC 17), 9=270 (LC 21)

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=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
 - Truss designed for wind loads in the plane of the truss only.
 - Provide adequate drainage to prevent water ponding.
 - 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 3-06-00 tall by 2-00-00 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) 7, 8 except (jt=lb) 1=145, 2=123, 9=102, 2=123.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

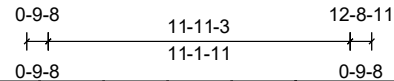
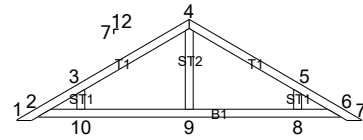
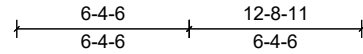
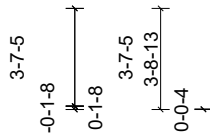


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	PB1	Piggyback	14	1	

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Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:39
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Page: 1



Loading	(psf)	Spacing	1-7-3	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	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	7	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							
										Weight: 45 lb	FT = 20%

LUMBER

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

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.

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.

LOAD CASE(S) Standard

REACTIONS

All bearings 12-9-9.
(lb) - Max Horiz 1=100 (LC 7)
Max Uplift All uplift 100 (lb) or less at joint(s)
1, 6, 7, 9 except 8=-163 (LC 11),
10=-162 (LC 10)
Max Grav All reactions 250 (lb) or less at joint
(s) 1, 2, 6, 7, 9 except 8=275 (LC 18), 10=275 (LC 17)

FORCES

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

WEBS

3-10=-255/208, 5-8=-254/208

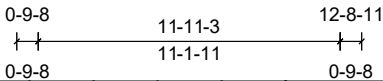
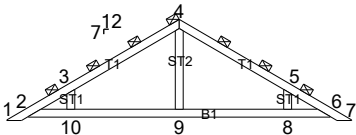
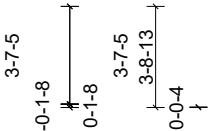
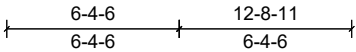
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust)
Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- Truss designed for wind loads in the plane of the truss only.
- 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 3-06-00 tall by 2-00-00 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) 1, 7, 6, 9, 6 except (jt=lb) 10=162, 8=163.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	PB1A	Piggyback	2	2	



Loading	(psf)	Spacing	3-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00	6	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 90 lb FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3
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.
REACTIONS All bearings 11-1-11.	
(lb) - Max Horiz	2=-187 (LC 8)
Max Uplift	All uplift 100 (lb) or less at joint(s) 2, 6, 9 except 8=-286 (LC 11), 10=-288 (LC 10)
Max Grav	All reactions 250 (lb) or less at joint (s) 2, 6 except 8=487 (LC 18), 9=419 (LC 1), 10=489 (LC 17)
FORCES	
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS	4-9=-287/95, 3-10=-469/381, 5-8=-469/380

- NOTES**
- 2-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust)
Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
 - Truss designed for wind loads in the plane of the truss only.
 - 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 3-06-00 tall by 2-00-00 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, 6, 9, 2, 6 except (it=lb) 10=288, 8=286.
- 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 piggyback truss connection detail for connection to base truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

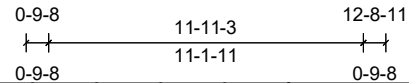
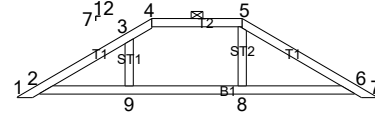
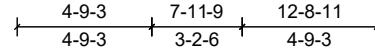
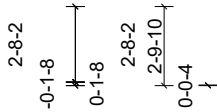
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	PB2	Piggyback	2	1	

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Page: 1



Loading	(psf)	Spacing	1-7-3	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
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 43 lb FT = 20%

LUMBER

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

- 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) See standard piggyback truss connection detail for connection to base truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

BRACING

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except 2'-0" oc purlins (6'-0" max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

LOAD CASE(S) Standard

REACTIONS

All bearings 11-1-11.
(lb) - Max Horiz 2=-75 (LC 8)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6, 8, 9
Max Grav All reactions 250 (lb) or less at joint (s) 2, 6, 8, 9

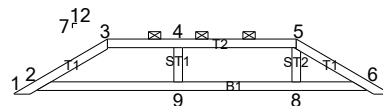
FORCES

(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=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- Truss designed for wind loads in the plane of the truss only.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 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 3'-06"-00 tall by 2'-00"-00 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, 6, 8, 9, 2, 6.



Page: 1LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding design, erection and bracing available from SBCE and Truss Plate Institute.

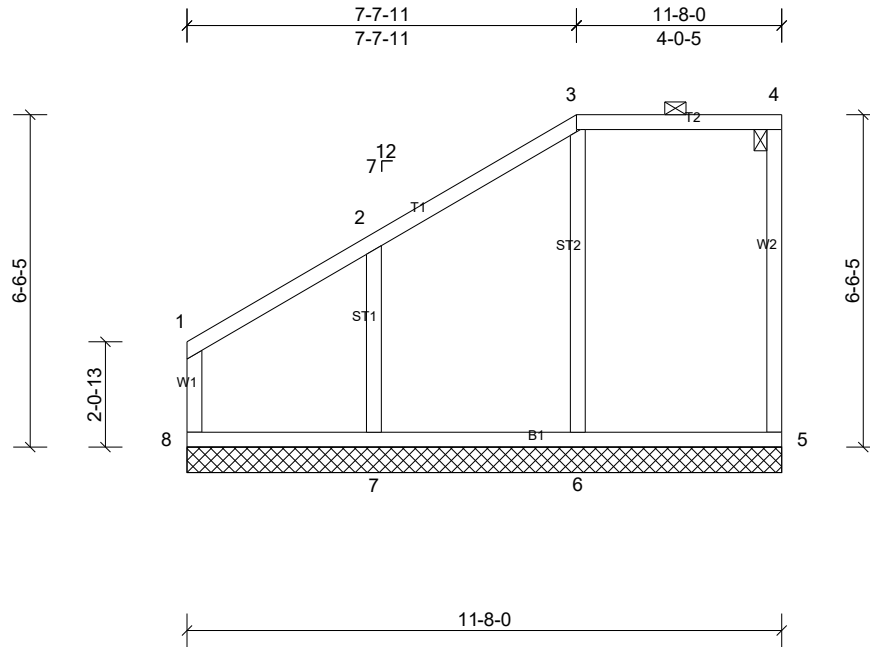


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	V1	Valley	2	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:42
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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	5	n/a	n/a	Weight: 62 lb
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							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

- 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.

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.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

LOAD CASE(S)

Standard

REACTIONS

All bearings 11-8-0.
(lb) - Max Horiz 8=264 (LC 7)
Max Uplift All uplift 100 (lb) or less at joint(s)
5, 6, 8 except 7=267 (LC 10)
Max Grav All reactions 250 (lb) or less at joint
(s) 5, 8 except 6=330 (LC 2), 7=436 (LC 17)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
2-7=309/260

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- 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 3-06-00 tall by 2-00-00 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) 8, 5, 6 except (jt=lb) 7=266.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

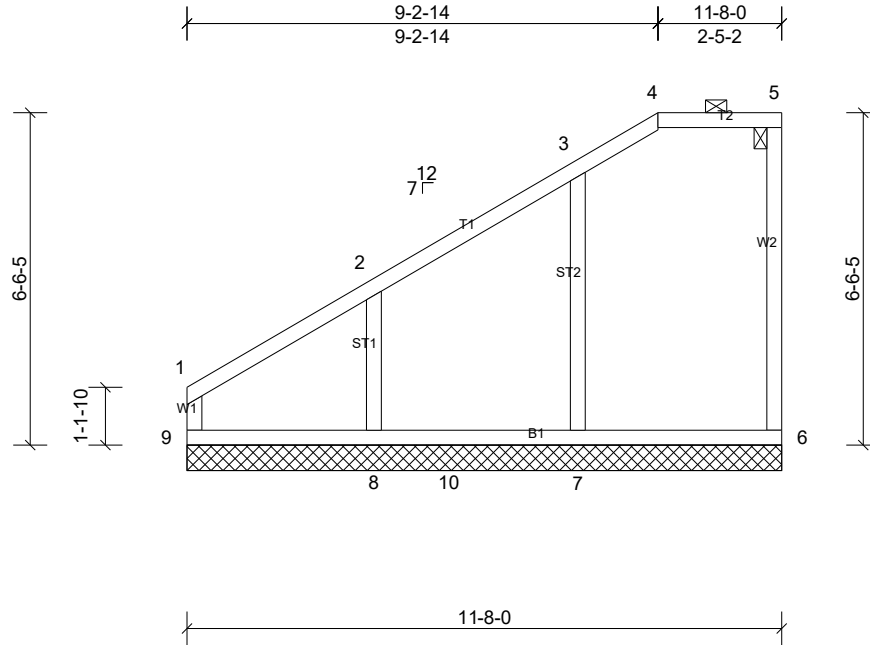


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	V2	Valley	2	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	6	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 59 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

- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

LOAD CASE(S) Standard

REACTIONS

All bearings 11-8-0.
(lb) - Max Horiz 9=266 (LC 7)
Max Uplift All uplift 100 (lb) or less at joint(s)
6, 7, 9 except 8=241 (LC 10)
Max Grav All reactions 250 (lb) or less at joint
(s) 6, 9 except 7=373 (LC 17),
8=353 (LC 17)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.
2-8=300/245

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust)
Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- 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 3-06-00 tall by 2-00-00 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) 9, 6, 7 except (jt=lb) 8=240.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

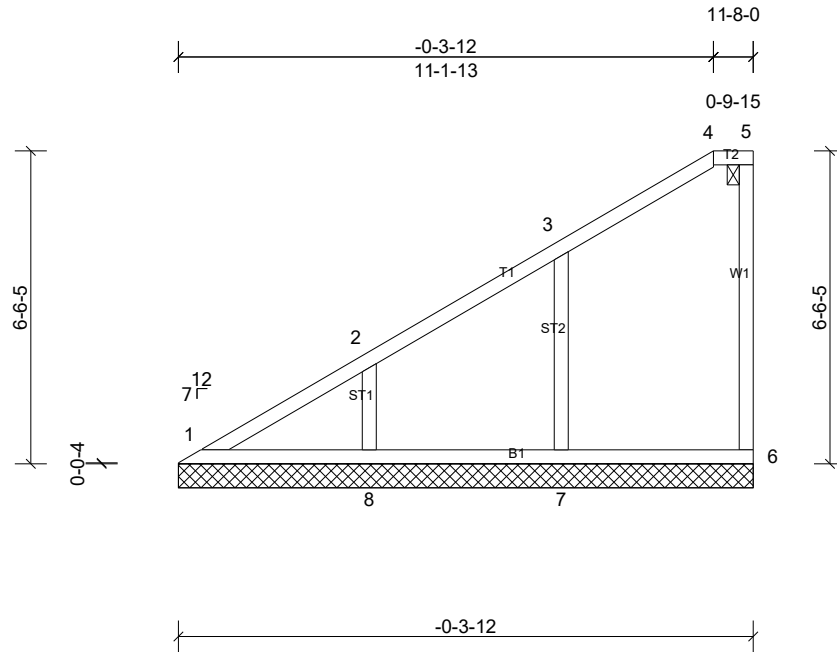


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	V3	Valley	2	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:42
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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	6	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 55 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

- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

LOAD CASE(S)

Standard

REACTIONS

All bearings 11-11-12.
(lb) - Max Horiz 1=271 (LC 7)
Max Uplift All uplift 100 (lb) or less at joint(s)
1, 6 except 7=-157 (LC 10), 8=-164 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s) 1, 6 except 7=354 (LC 17), 8=308 (LC 17)

FORCES

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

WEBS

2-8=-265/196

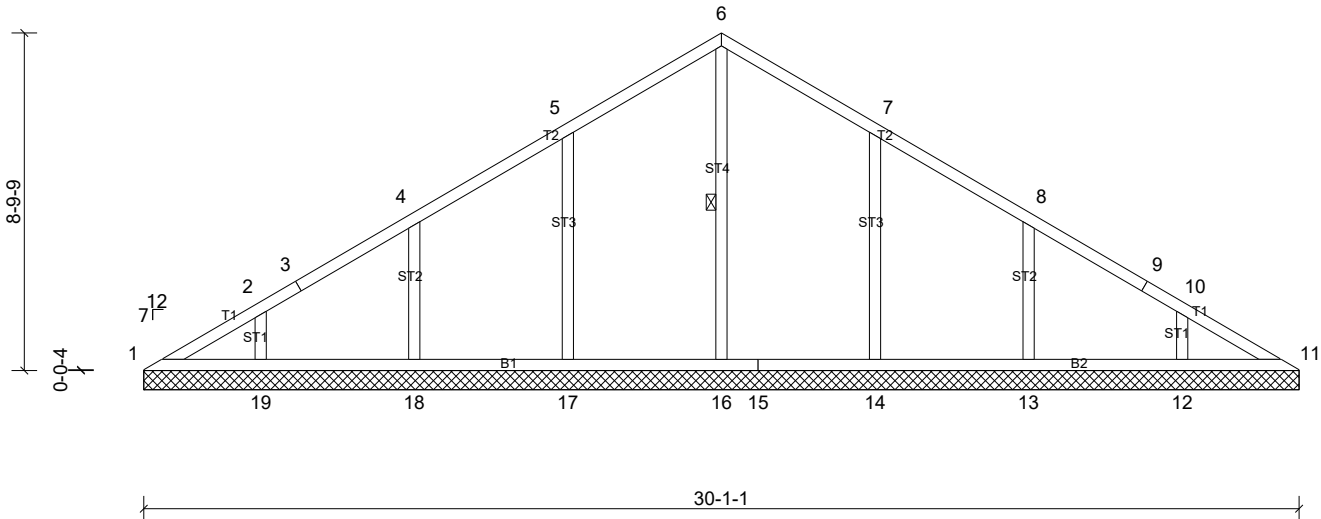
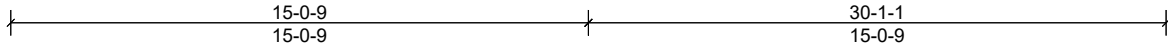
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- 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 3-06-00 tall by 2-00-00 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) 1, 6 except (it=lb) 7=156, 8=163.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	V4	Valley	1	1	



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.01	11	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 139 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 6-0-0 oc bracing.
 WEBS 1 Row at midpt 6-16
- REACTIONS** All bearings 30-1-1.
 (lb) - Max Horiz 1=243 (LC 7)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 12=-134 (LC 11), 13=-162 (LC 11), 14=-172 (LC 11), 17=-172 (LC 10), 18=-161 (LC 10), 19=-138 (LC 10)
 Max Grav All reactions 250 (lb) or less at joint (s) 1, 11 except 12=267 (LC 18), 13=336 (LC 18), 14=407 (LC 18), 16=348 (LC 20), 17=408 (LC 17), 18=335 (LC 17), 19=271 (LC 17)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 5-17=-261/210, 4-18=-251/200, 7-14=-261/209, 8-13=-251/200
- 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=25ft; Cat. II; Exp B; 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) All plates are 2x3 (||) MT20 unless otherwise indicated.
 4) Gable requires continuous bottom chord bearing.
 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 6) * 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.
- LOAD CASE(S)** Standard
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1 except (jt=lb) 17=172, 18=160, 19=137, 14=171, 13=161, 12=134.
 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.

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Aug 15 16:22:43 Page: 1
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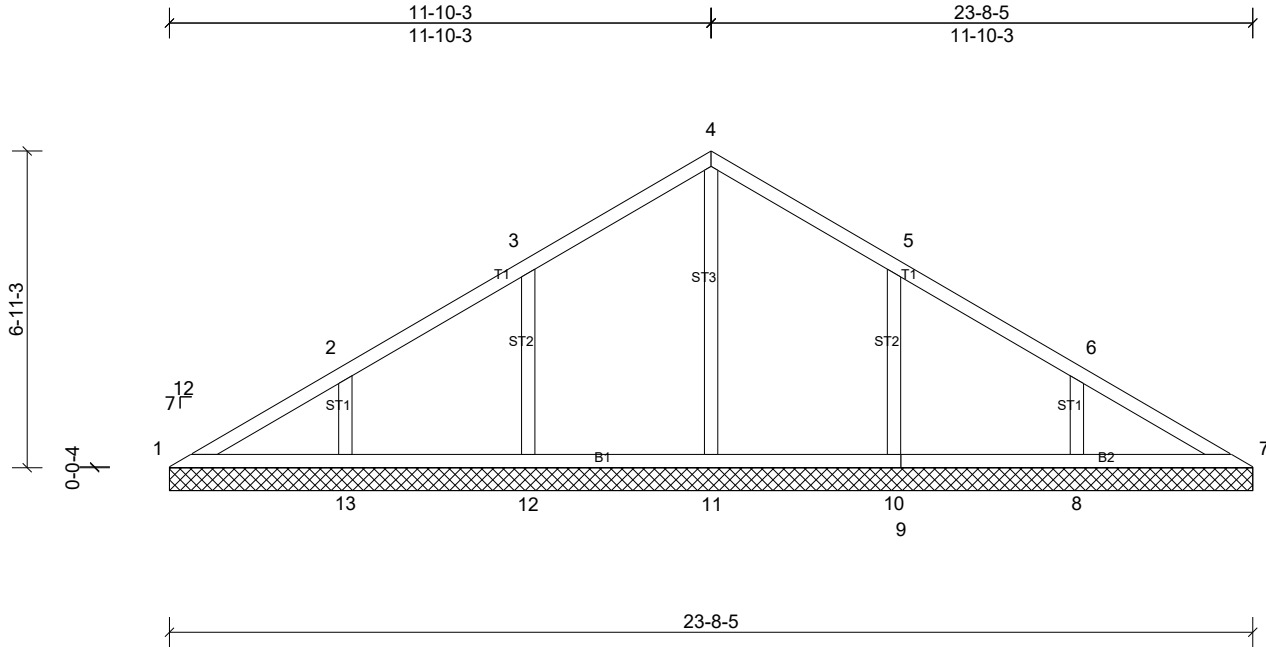
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	V6	Valley	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

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Loading	(psf)	Spacing	1-7-3	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	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horiz(TL)	-0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 101 lb	FT = 20%

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

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

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

REACTIONS All bearings 23-8-5.
(lb) - Max Horiz 1=-190 (LC 6)
Max Uplift All uplift 100 (lb) or less at joint(s)
1, 7 except 8=-157 (LC 11),
10=-174 (LC 11), 12=-173 (LC 10),
13=-160 (LC 10)
Max Grav All reactions 250 (lb) or less at joint
(s) 1 except 8=302 (LC 18), 10=339
(LC 18), 11=539 (LC 17), 12=351
(LC 17), 13=285 (LC 17)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.
TOP CHORD 1-2=-146/328, 2-3=-58/302, 3-4=0/283,
4-5=0/269, 5-6=0/254, 6-7=-87/265
WEBS 4-11=-380/0, 3-12=-266/215, 5-10=-261/215

- 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=25ft; Cat. II; Exp B; 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) Gable requires continuous bottom chord bearing.
 - 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 3-06-00 tall by 2-00-00 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 100 lb uplift at joint (s) 1 except (jt=lb) 12=172, 13=159, 10=173, 8=156.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

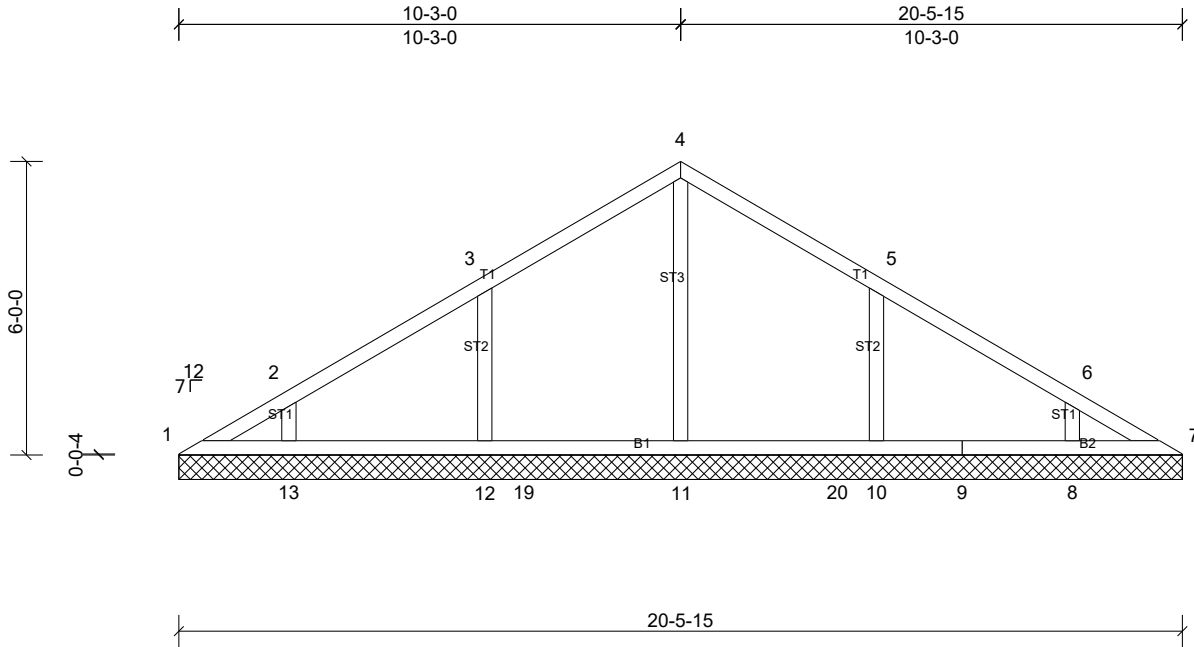


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	V7	Valley	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/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
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	7	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 84 lb FT = 20%

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

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.

LOAD CASE(S) Standard

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

REACTIONS All bearings 20-5-15.
(lb) - Max Horiz 1=-164 (LC 6)
Max Uplift All uplift 100 (lb) or less at joint(s)
1, 7 except 8=-113 (LC 11),
10=-185 (LC 11), 12=-180 (LC 10),
13=-122 (LC 10)
Max Grav All reactions 250 (lb) or less at joint
(s) 1, 8, 13 except 10=334 (LC 18),
11=416 (LC 17), 12=344 (LC 17)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.
WEBS 3-12=-271/219, 5-10=-268/220

- 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=25ft; Cat. II; Exp B; 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) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * 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.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1 except (jt=lb) 12=180, 13=121, 10=184, 8=113.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

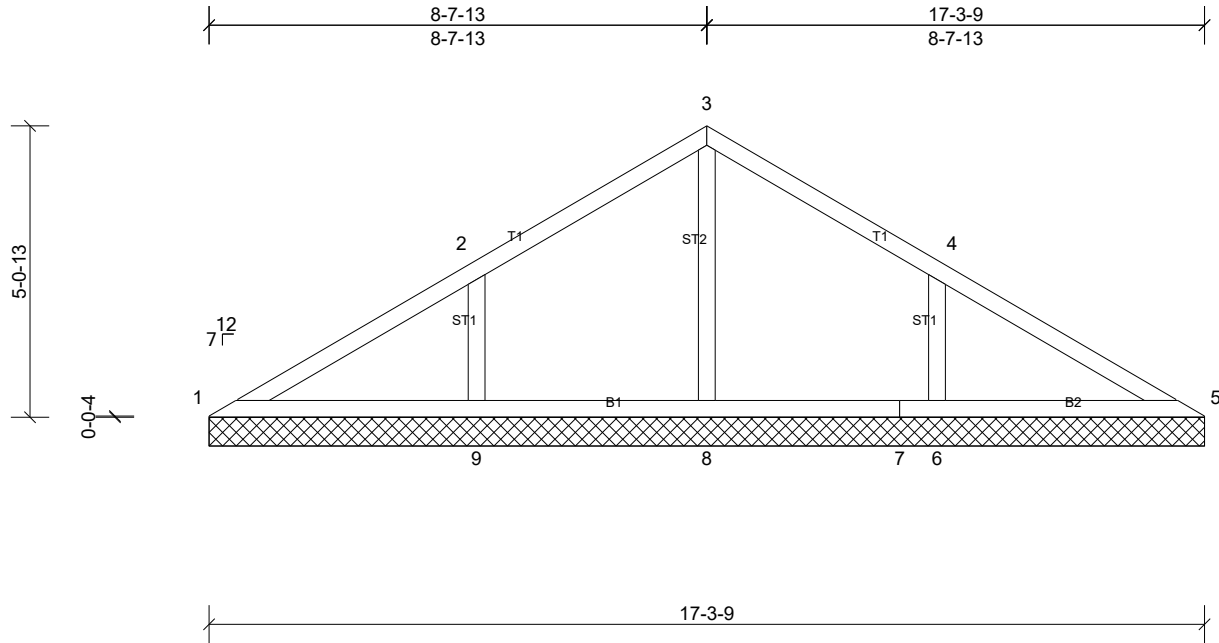


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	V8	Valley	1	1	

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	-0.01	5	n/a	n/a	Weight: 67 lb
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							FT = 20%

LUMBER

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

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

BRACING

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

REACTIONS All bearings 17-3-9.

(lb) - Max Horiz 1=138 (LC 7)
Max Uplift All uplift 100 (lb) or less at joint(s)
1, 5 except 6=199 (LC 11), 9=203 (LC 10)
Max Grav All reactions 250 (lb) or less at joint
(s) 1, 5 except 6=360 (LC 18),
8=473 (LC 1), 9=357 (LC 17)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-106/332, 2-3=0/304, 3-4=0/303,
4-5=-100/325
BOT CHORD 1-9=-276/137, 8-9=-276/137, 7-8=-276/137,
6-7=-276/137, 5-6=-276/137
WEBS 3-8=-426/72, 2-9=-284/222, 4-6=-288/221

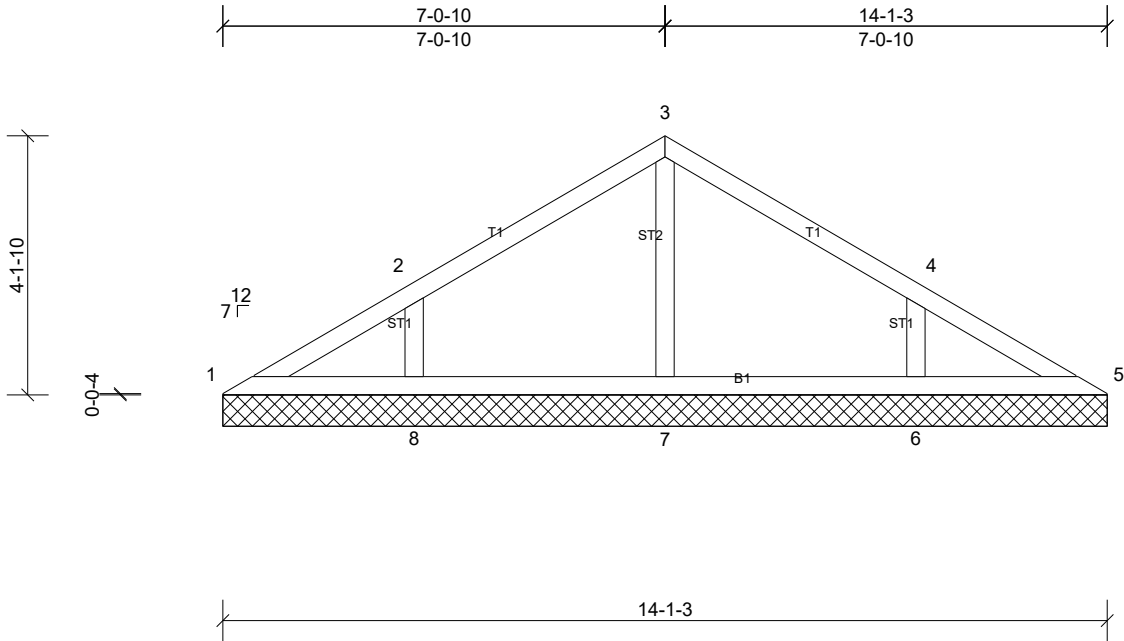
NOTES

- 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=25ft; Cat. II; Exp B; 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) Gable requires continuous bottom chord bearing.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1 except (jt=lb) 9=202, 6=199.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	V9	Valley	1	1	



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	5	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							
										Weight: 52 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 10-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
- REACTIONS** All bearings 14-1-3.
 (lb) - Max Horiz 1=-111 (LC 6)
 Max Uplift All uplift 100 (lb) or less at joint(s)
 1, 5, 7 except 6=-162 (LC 11),
 8=-164 (LC 10)
 Max Grav All reactions 250 (lb) or less at joint
 (s) 1, 5, 7 except 6=295 (LC 18),
 8=297 (LC 17)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250
 (lb) or less except when shown.

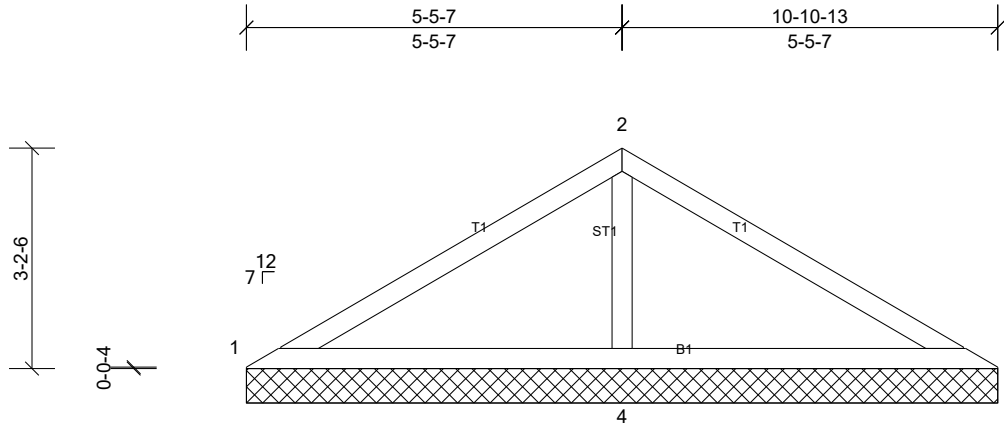
- NOTES**
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=155mph (3-second gust)
 Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) Gable requires continuous bottom chord bearing.
 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1, 5, 7 except (jt=lb) 8=164, 6=162.
 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	Job Reference (optional)
24091249	V10	Valley	1	1	

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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	9	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 37 lb FT = 20%

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

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

REACTIONS (lb/size)
1=-2/10-10-13, (min. 0-1-8),
3=2/10-10-13, (min. 0-1-8),
4=697/10-10-13, (min. 0-1-8)
Max Horiz 1=-85 (LC 6)
Max Uplift 1=-89 (LC 22), 3=-2 (LC 11),
4=-202 (LC 11)
Max Grav 1=86 (LC 21), 3=3 (LC 18), 4=697 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-124/382, 2-3=-134/402
BOT CHORD 1-4=-346/183, 3-4=-346/183
WEBS 2-4=-583/272

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=25ft; Cat. II; Exp B; 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) Gable requires continuous bottom chord bearing.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1, 3, 3 except (jt=lb) 4=202.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

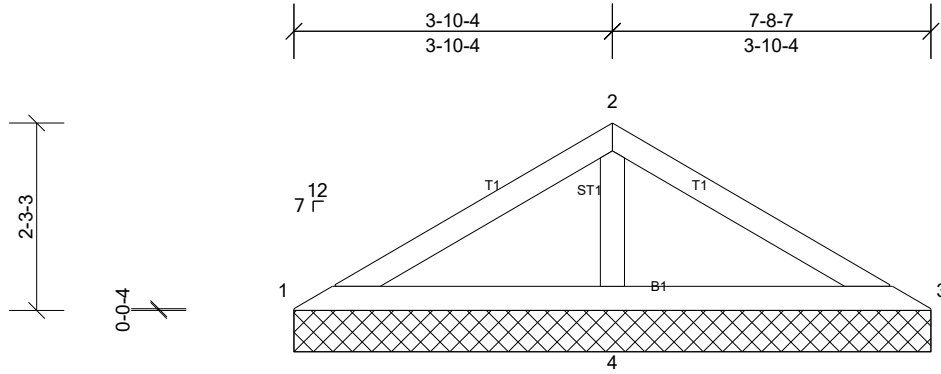


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	V11	Valley	1	1	

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Page: 1



Loading	(psf)	Spacing	1-7-3	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	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 25 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 7-8-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=44/7-8-7, (min. 0-1-8),
3=44/7-8-7, (min. 0-1-8),
4=405/7-8-7, (min. 0-1-8)
Max Horiz 1=-59 (LC 8)
Max Uplift 1=-15 (LC 10), 3=-24 (LC 11),
4=-114 (LC 10)
Max Grav 1=63 (LC 21), 3=63 (LC 22), 4=405 (LC 1)

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

WEBS 2-4=-319/168

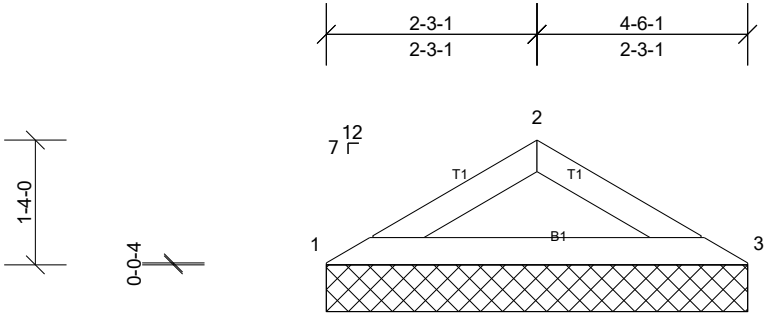
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- Gable requires continuous bottom chord bearing.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1, 24 lb uplift at joint 3 and 114 lb uplift at joint 4.
- 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 design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	V12	Valley	1	1	



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/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	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%

- LUMBER**
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
- BRACING**
 TOP CHORD Structural wood sheathing directly applied or 4-6-1 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (lb/size) 1=144/4-6-1, (min. 0-1-8), 3=144/4-6-1, (min. 0-1-8)
 Max Horiz 1=-33 (LC 8)
 Max Uplift 1=-42 (LC 10), 3=-42 (LC 11)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
- TOP CHORD 1-2=-251/106

- 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=25ft; Cat. II; Exp B; 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) Gable requires continuous bottom chord bearing.
 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 1 and 42 lb uplift at joint 3.
 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.

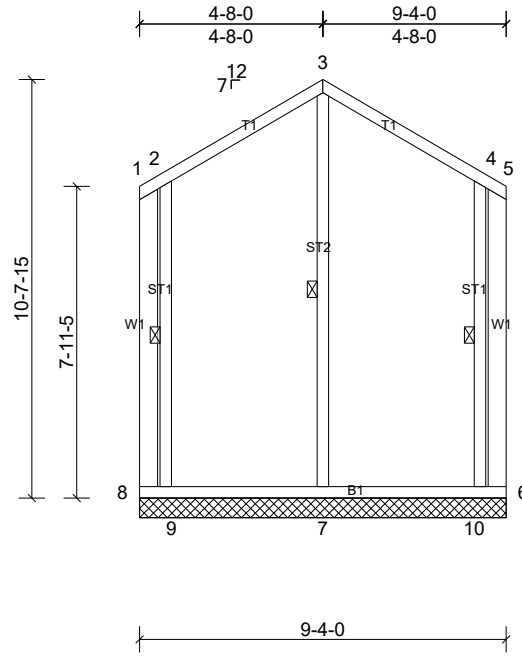
LOAD CASE(S) - Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	V13	Valley	1	1	

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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horiz(TL)	0.00	6	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 104 lb FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-0-8 oc bracing.
WEBS 1 Row at midpt 3-7, 2-8, 4-6

REACTIONS

(lb/size) 6=157/9-4-0, (min. 0-1-8),
7=253/9-4-0, (min. 0-1-8),
8=157/9-4-0, (min. 0-1-8)
Max Horiz 8=-392 (LC 8)
Max Uplift 6=-182 (LC 7), 8=-183 (LC 6)
Max Grav 6=325 (LC 17), 7=344 (LC 2),
8=325 (LC 18)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-1002/965, 1-2=-560/514, 2-3=-271/289,
3-4=-271/289, 4-5=-556/515, 5-6=-1000/963
WEBS 2-8=-1095/1077, 4-6=-1093/1075

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- Gable requires continuous bottom chord bearing.
- 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 3-06-00 tall by 2-00-00 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 8 and 182 lb uplift at joint 6.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



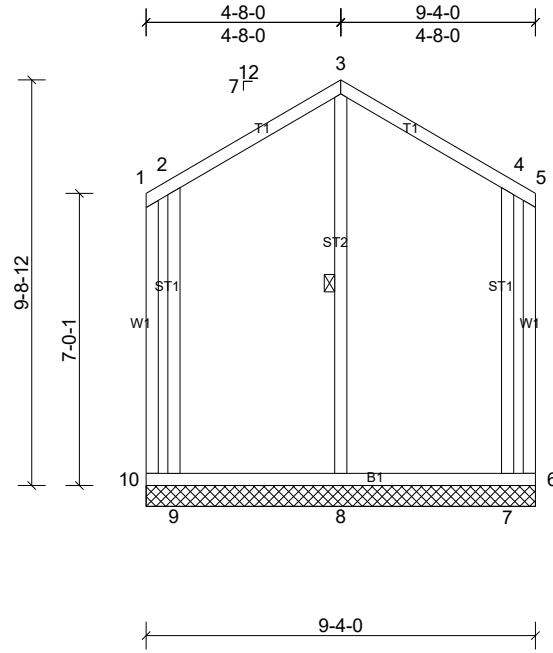
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	V14	Valley	1	1	

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Page: 1

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	n/a	-	n/a	999	M18AHS 186/179
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(TL)	n/a	-	n/a	999	MT20 244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.60	Horiz(TL)	0.00	6	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 84 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.1
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 8-10-6 oc bracing.
WEBS 1 Row at midpt 3-8

REACTIONS

All bearings 9-4-0.
(lb) - Max Horiz 10=-353 (LC 6)
Max Uplift All uplift 100 (lb) or less at joint(s) except 6=-1479 (LC 9), 7=-1433 (LC 6), 9=-1435 (LC 7), 10=-1481 (LC 8)
Max Grav All reactions 250 (lb) or less at joint (s) except 6=1410 (LC 6), 7=1615 (LC 9), 8=320 (LC 2), 9=1617 (LC 8), 10=1412 (LC 7)

FORCES

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

TOP CHORD 1-10=-587/570, 1-2=-357/330, 2-3=-232/254, 3-4=-232/254, 4-5=-357/329, 5-6=-586/569

WEBS 2-9=-628/596, 4-7=-627/595

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=25ft; Cat. II; Exp B; 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) All plates are MT20 plates unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1481 lb uplift at joint 10, 1478 lb uplift at joint 6, 1434 lb uplift at joint 9 and 1432 lb uplift at joint 7.
- 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 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

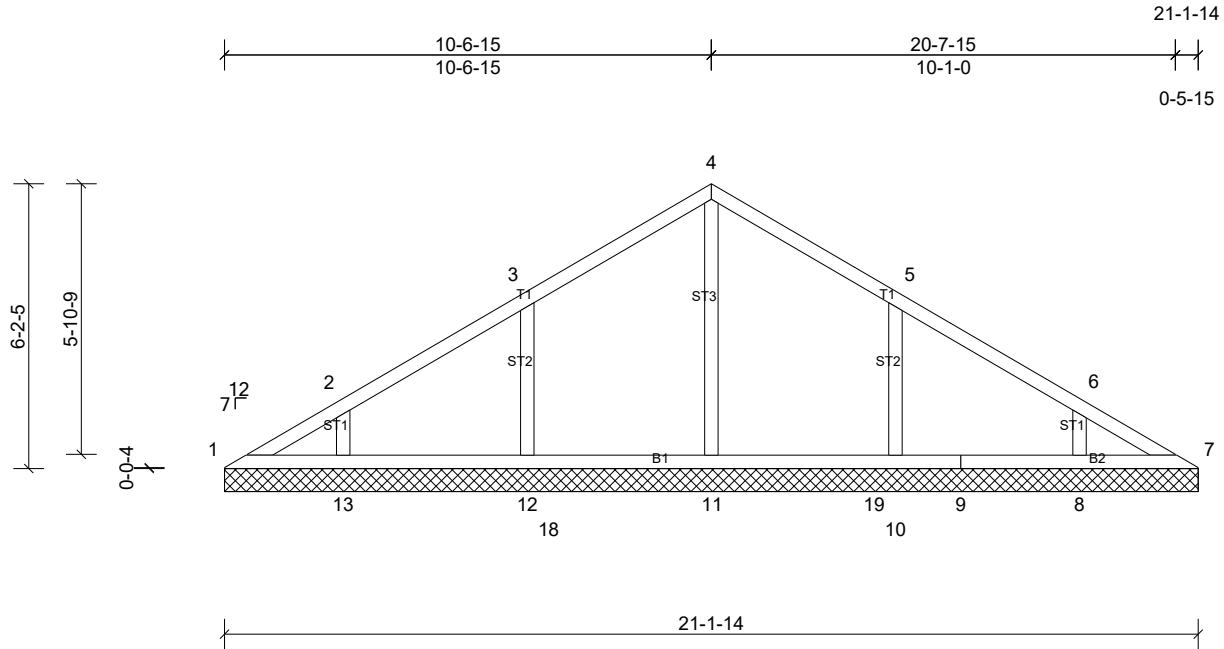


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	V15	Valley	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/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	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 87 lb	FT = 20%

LUMBER

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

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.

LOAD CASE(S) Standard

BRACING

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

REACTIONS

All bearings 21-1-14.
(lb) - Max Horiz 1=169 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 8=-125 (LC 11), 10=-180 (LC 11), 12=-180 (LC 10), 13=-127 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s) 1, 7, 8, 13 except 10=349 (LC 18), 11=329 (LC 17), 12=348 (LC 17)

FORCES

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

WEBS

3-12=-271/219, 5-10=-271/218

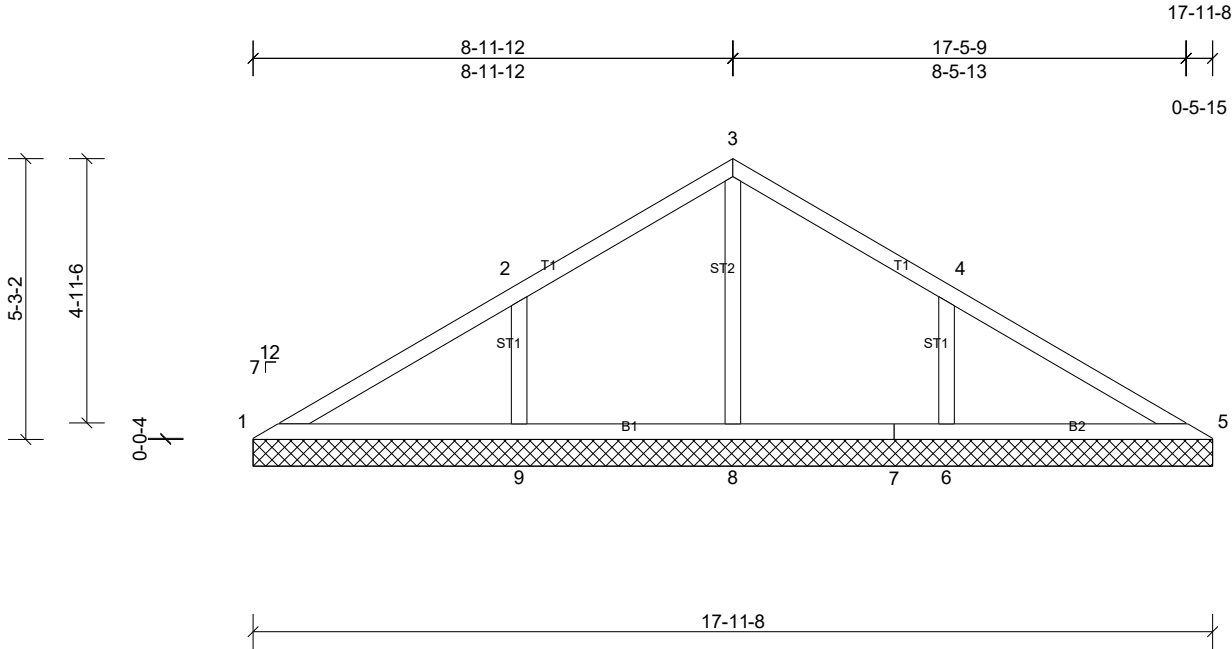
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- All plates are 1.5x3 (I) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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 3'-06-00 tall by 2'-00-00 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) 1 except (jt=lb) 12=179, 13=127, 10=179, 8=124.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	V16	Valley	1	1	



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horiz(TL)	-0.01	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 70 lb	FT = 20%

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

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

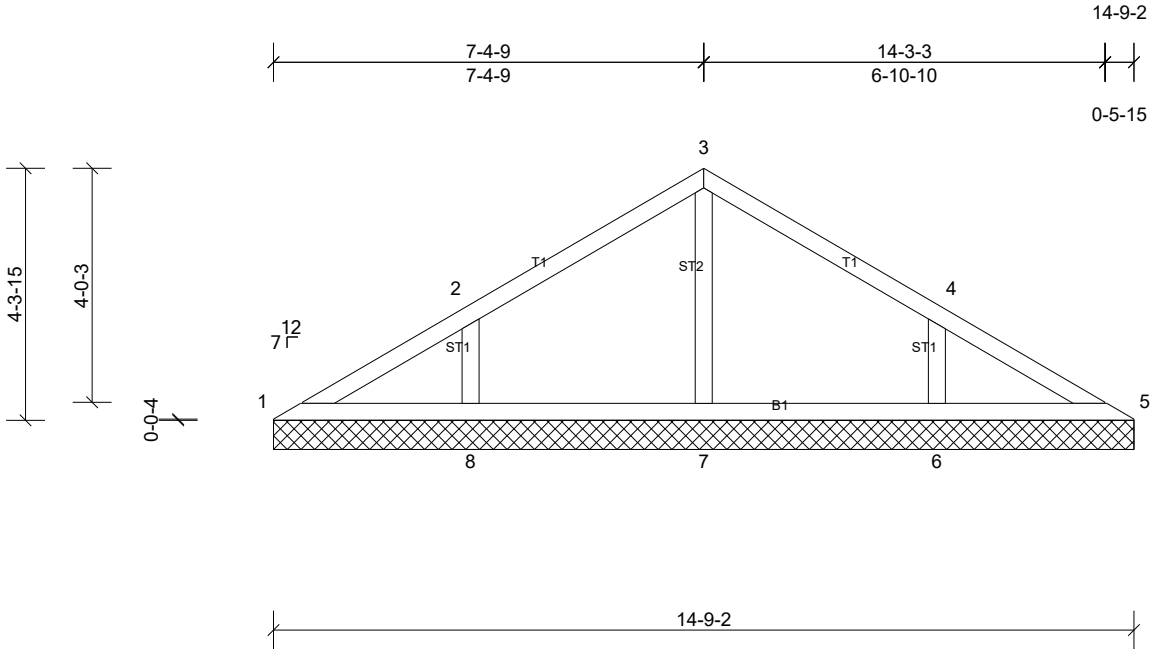
BRACING
 TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS All bearings 17-11-8.
 (lb) - Max Horiz 1=-143 (LC 6)
 Max Uplift All uplift 100 (lb) or less at joint(s)
 1, 5 except 6=-208 (LC 11), 9=-213 (LC 10)
 Max Grav All reactions 250 (lb) or less at joint (s) 1, 5 except 6=376 (LC 18), 8=485 (LC 1), 9=376 (LC 17)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-110/352, 2-3=0/324, 3-4=0/323, 4-5=-108/350
 BOT CHORD 1-9=-298/148, 8-9=-298/148, 7-8=-298/148, 6-7=-298/148, 5-6=-298/148
 WEBS 3-8=-442/71, 2-9=-297/230, 4-6=-300/230

- 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=25ft; Cat. II; Exp B; 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) Gable requires continuous bottom chord bearing.
 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1 except (jt=lb) 9=212, 6=208.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	V17	Valley	1	1	



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							
										Weight: 55 lb	FT = 20%

LUMBER

LOAD CASE(S) Standard

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 10-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS All bearings 14-9-2.
 (lb) - Max Horiz 1=117 (LC 7)
 Max Uplift All uplift 100 (lb) or less at joint(s)
 1, 5, 7 except 6=-169 (LC 11),
 8=-171 (LC 10)
 Max Grav All reactions 250 (lb) or less at joint
 (s) 1, 5 except 6=307 (LC 18),
 7=258 (LC 1), 8=309 (LC 17)

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

WEBS 2-8=-254/196, 4-6=-254/196

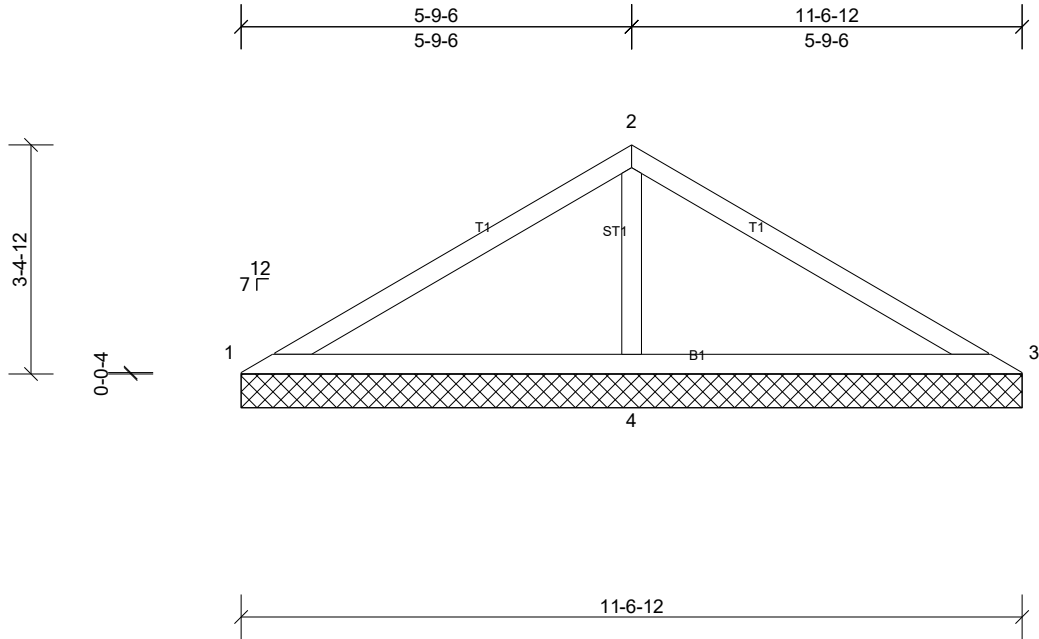
- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust)
Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - 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 3-06-00 tall by 2-00-00 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) 1, 5, 7 except (jt=lb) 8=170, 6=169.
 - 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)
24091249	V18	Valley	1	1	

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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 40 lb	FT = 20%

LUMBER

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

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

BRACING

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

REACTIONS

(lb/size) 1=13/11-6-12, (min. 0-1-8),
3=13/11-6-12, (min. 0-1-8),
4=714/11-6-12, (min. 0-1-8)
Max Horiz 1=-91 (LC 6)
Max Uplift 1=-37 (LC 22), 3=-37 (LC 21),
4=-218 (LC 10)
Max Grav 1=56 (LC 21), 3=56 (LC 22), 4=714 (LC 1)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-162/371, 2-3=-162/371
BOT CHORD 1-4=-364/210, 3-4=-364/210
WEBS 2-4=-618/317

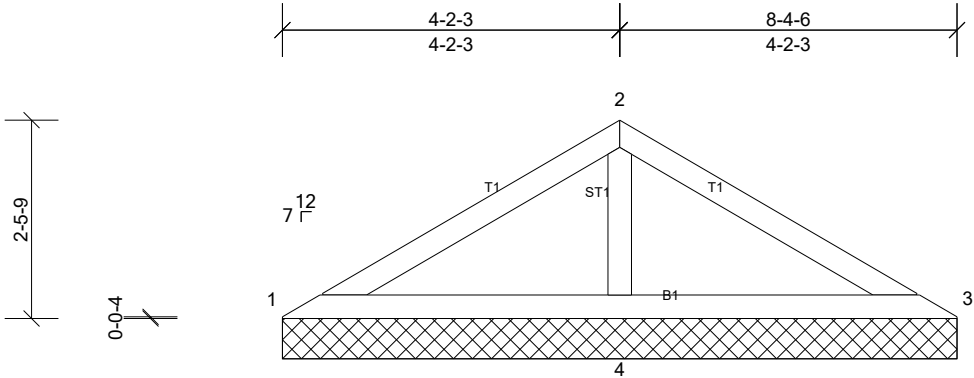
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- Gable requires continuous bottom chord bearing.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1, 37 lb uplift at joint 3 and 218 lb uplift at joint 4.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	V19	Valley	1	1	



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 28 lb	FT = 20%

LUMBER

LOAD CASE(S) Standard

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 8-4-6 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

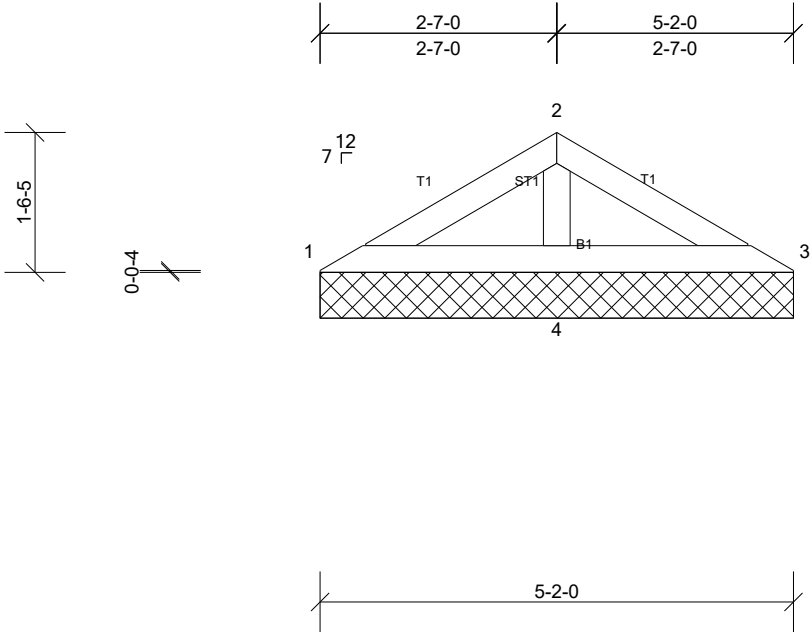
REACTIONS (lb/size) 1=41/8-4-6, (min. 0-1-8), 3=41/8-4-6, (min. 0-1-8), 4=453/8-4-6, (min. 0-1-8)
 Max Horiz 1=-64 (LC 6)
 Max Uplift 1=-13 (LC 10), 3=-23 (LC 11), 4=-130 (LC 10)
 Max Grav 1=64 (LC 21), 3=64 (LC 22), 4=453 (LC 1)

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

WEBS 2-4=-364/191

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
 - Gable requires continuous bottom chord bearing.
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1, 23 lb uplift at joint 3 and 130 lb uplift at joint 4.
 - 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)
24091249	V20	Valley	1	1	



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	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	0.03	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 16 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 5-2-0 oc purlins.
- BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
- REACTIONS** (lb/size)
- 1=45/5-2-0, (min. 0-1-8),
- 3=45/5-2-0, (min. 0-1-8),
- 4=241/5-2-0, (min. 0-1-8)
- Max Horiz 1=-38 (LC 8)
- Max Uplift 1=-16 (LC 10), 3=-23 (LC 11),
- 4=-64 (LC 10)
- Max Grav 1=54 (LC 21), 3=54 (LC 22), 4=241 (LC 1)
- 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=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
 - Gable requires continuous bottom chord bearing.
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 1, 23 lb uplift at joint 3 and 64 lb uplift at joint 4.
 - 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

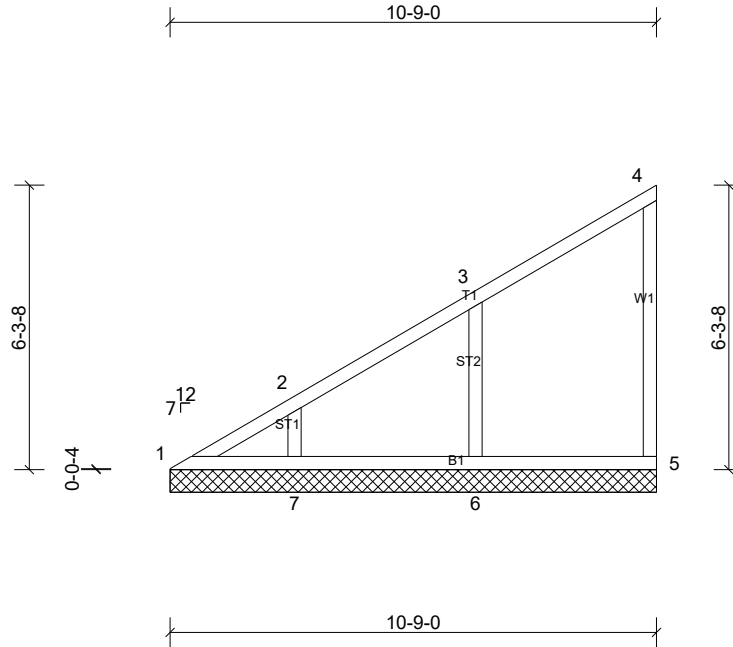
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	V21	Valley	2	1	

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	n/a	-	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH						Weight: 49 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 10-0-0 oc bracing.

REACTIONS

All bearings 10-9-0.
(lb) - Max Horiz 1=256 (LC 7)
Max Uplift All uplift 100 (lb) or less at joint(s)
1, 5 except 6=177 (LC 10), 7=126 (LC 10)
Max Grav All reactions 250 (lb) or less at joint
(s) 1, 5, 7 except 6=372 (LC 17)

FORCES

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

WEBS

3-6=-263/208

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust)
Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- Gable requires continuous bottom chord bearing.
- 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 3-06-00 tall by 2-00-00 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) 5, 1 except (it=lb) 6=177, 7=126.
- 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 design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

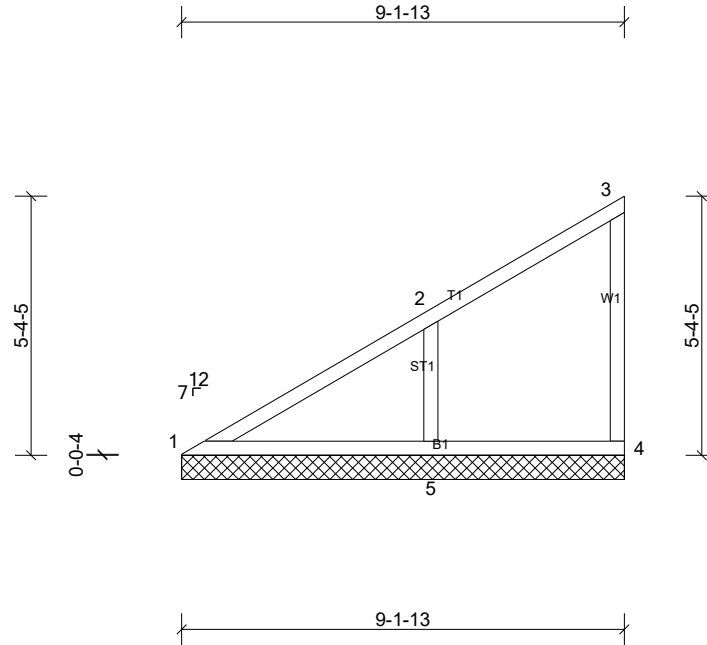


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	V22	Valley	2	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Tony Demers

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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 39 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 10'-0-0 oc bracing.

REACTIONS (lb/size) 1=133/9-1-13, (min. 0-1-8),
4=81/9-1-13, (min. 0-1-8),
5=363/9-1-13, (min. 0-1-8)
Max Horiz 1=216 (LC 7)
Max Uplift 4=-46 (LC 7), 5=-213 (LC 10)
Max Grav 1=150 (LC 18), 4=103 (LC 17),
5=404 (LC 17)

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

WEBS 2-5=-314/229

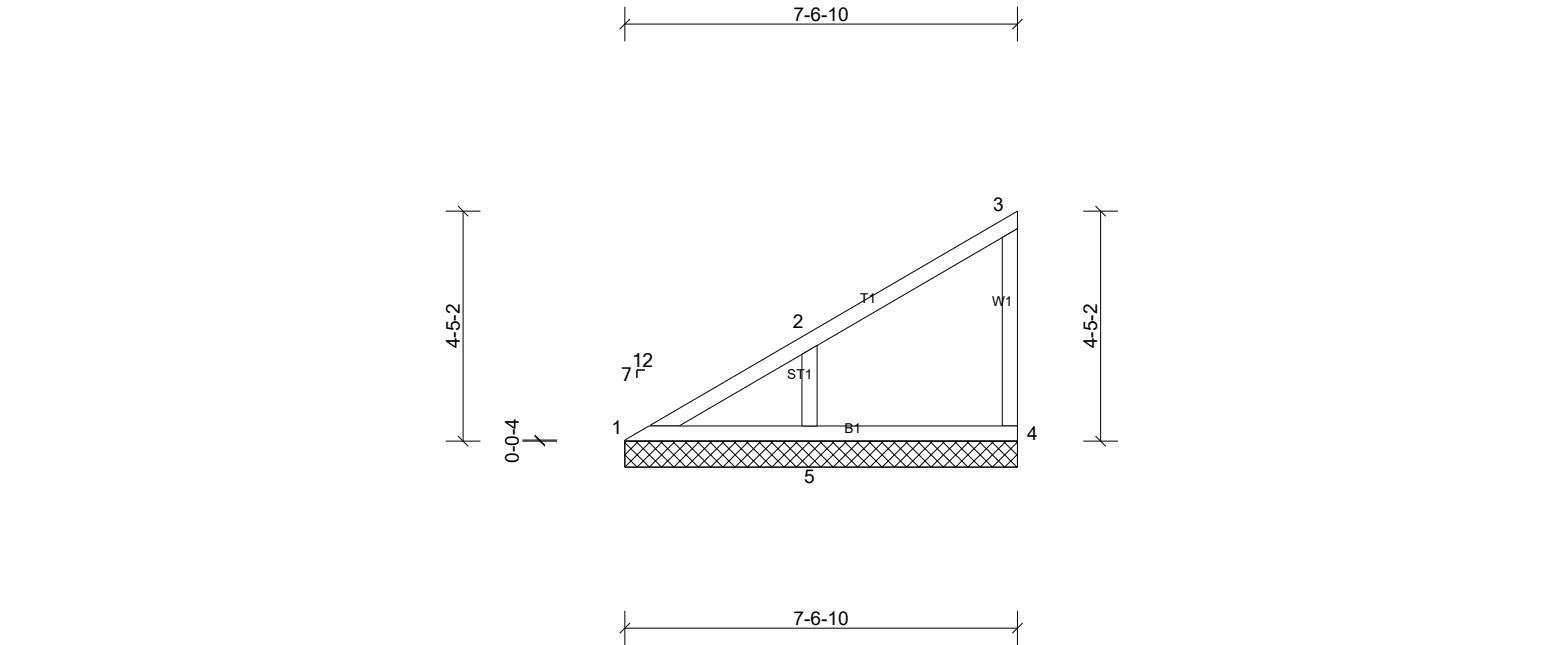
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust)
Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- Gable requires continuous bottom chord bearing.
- 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 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 4 and 213 lb uplift at joint 5.
- 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 design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24091249	V23	Valley	2	1	



Loading	(psf)	Spacing	1-7-3	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	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 31 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 10-0-0 oc bracing.

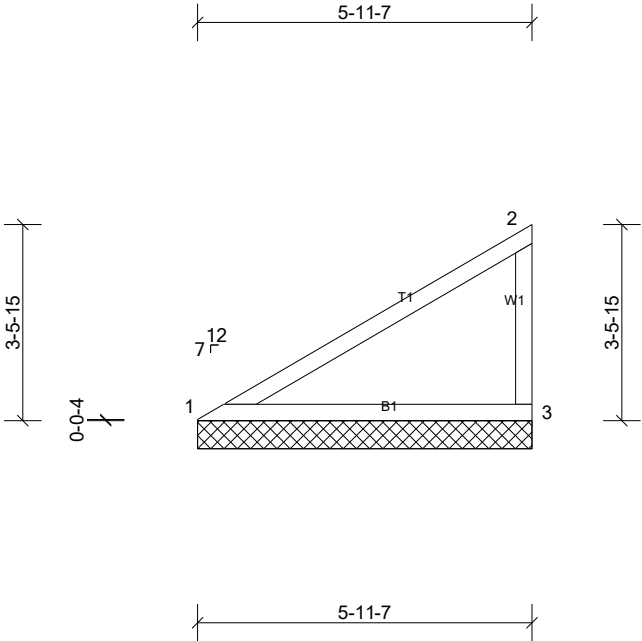
REACTIONS	(lb/size)	1=87/7-6-10, (min. 0-1-8), 4=99/7-6-10, (min. 0-1-8), 5=288/7-6-10, (min. 0-1-8)
	Max Horiz	1=176 (LC 7)
	Max Uplift	1=-2 (LC 6), 4=-45 (LC 7), 5=-166 (LC 10)
	Max Grav	1=107 (LC 18), 4=121 (LC 17), 5=320 (LC 17)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS	2-5=-262/200

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- Gable requires continuous bottom chord bearing.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 4, 2 lb uplift at joint 1 and 166 lb uplift at joint 5.
- 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)
24091249	V24	Valley	2	1	



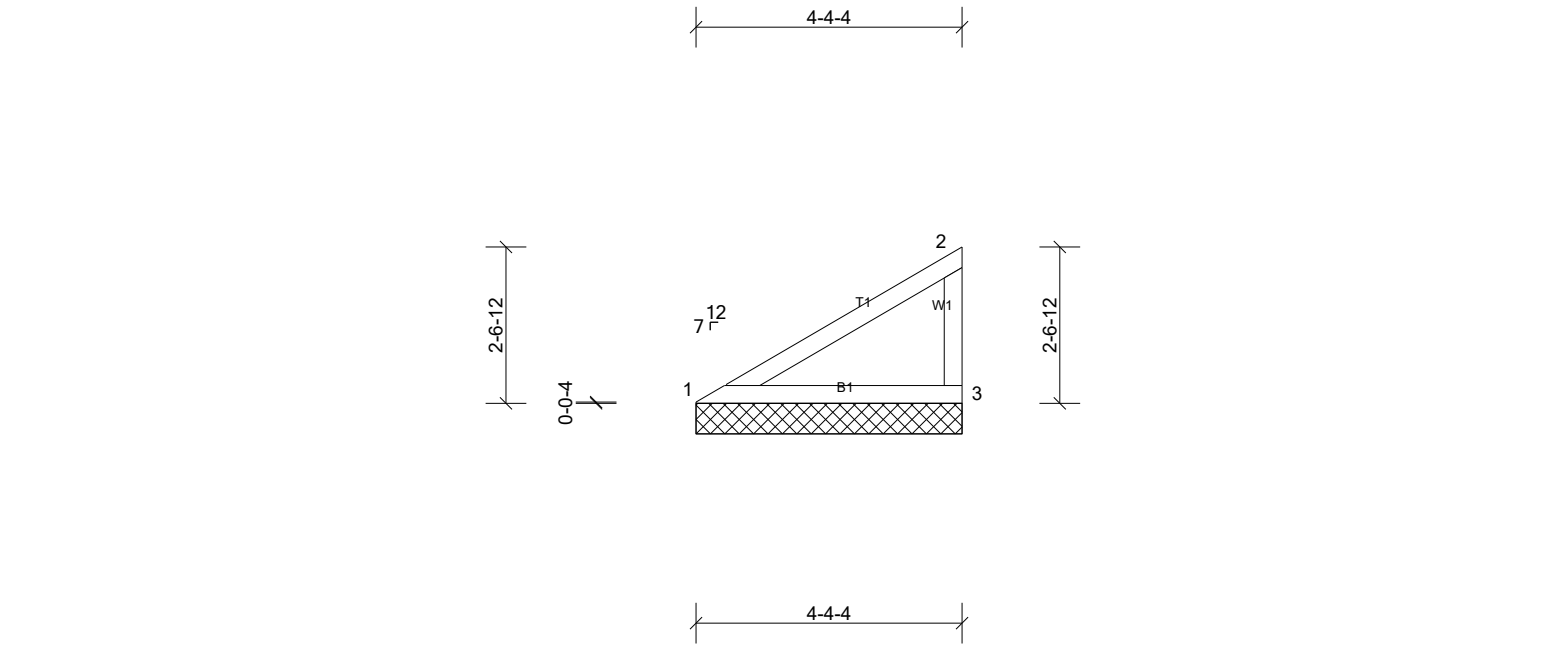
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 23 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 5-11-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (lb/size) 1=186/5-11-7, (min. 0-1-8),
 3=186/5-11-7, (min. 0-1-8)
 Max Horiz 1=136 (LC 7)
 Max Uplift 1=-51 (LC 10), 3=-92 (LC 10)
 Max Grav 1=186 (LC 1), 3=215 (LC 17)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-315/114
 BOT CHORD 1-3=-127/298

- 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=25ft; Cat. II; Exp B; 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) Gable requires continuous bottom chord bearing.
 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 3 and 51 lb uplift at joint 1.
 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	Job Reference (optional)
24091249	V25	Valley	2	1	



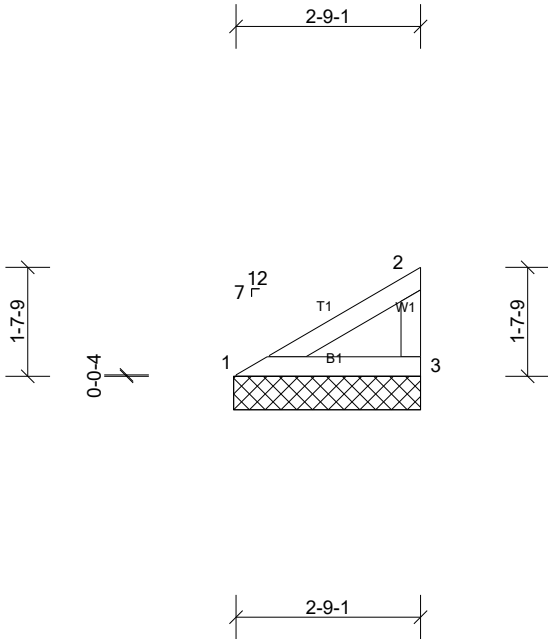
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 16 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 4-4-4 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (lb/size) 1=135/4-4-4, (min. 0-1-8), 3=135/4-4-4, (min. 0-1-8)
- Max Horiz 1=96 (LC 7)
- Max Uplift 1=-38 (LC 10), 3=-66 (LC 10)
- Max Grav 1=135 (LC 1), 3=155 (LC 17)
- 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=25ft; Cat. II; Exp B; 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) Gable requires continuous bottom chord bearing.
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 3 and 38 lb uplift at joint 1.
 - 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	Job Reference (optional)
24091249	V26	Valley	2	1	



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 9 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 2-9-1 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (lb/size) 1=85/2-9-8, (min. 0-1-8), 3=85/2-9-8, (min. 0-1-8)
 Max Horiz 1=56 (LC 7)
 Max Uplift 1=-25 (LC 10), 3=-41 (LC 10)
 Max Grav 1=85 (LC 1), 3=97 (LC 17)
- 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=25ft; Cat. II; Exp B; 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) Gable requires continuous bottom chord bearing.
 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 3 and 25 lb uplift at joint 1.
 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
 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.
- LOAD CASE(S)** Standard