

Job 72402902	Truss A1	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Thu Feb 01 11:56:48

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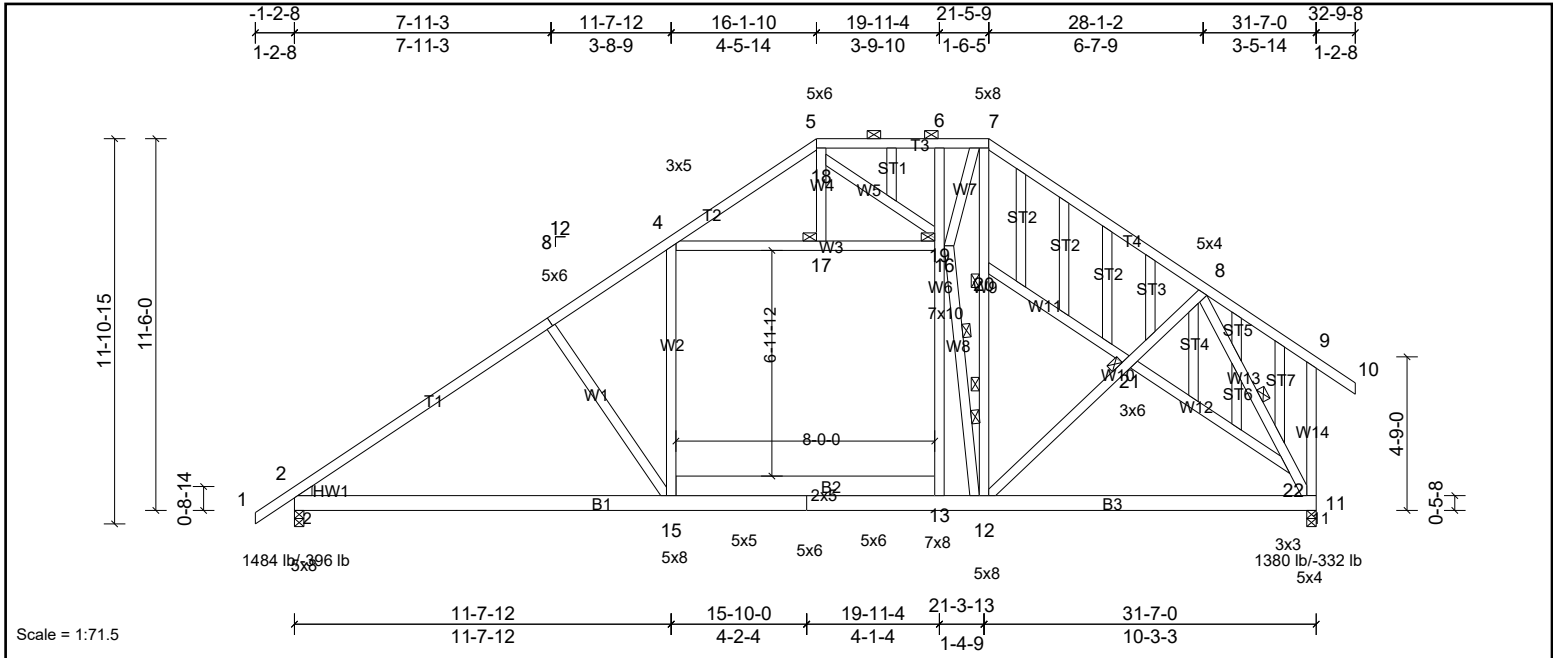


Plate Offsets (X, Y): [2:Edge,0-1-4], [3:0-3-0,0-3-0], [7:0-2-12,0-2-0], [11:0-2-0,0-2-12], [15:0-2-0,0-2-8], [16:0-3-12,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.33	15-42	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.51	15-42	>745	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.11	13-15	>926	360	Weight: 334 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD 2x6 SP No.2 *Except* B2:2x8 SP No.2, B3:2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W2,W6,W3:2x4 SP No.2	WEBS 1 Row at midpt 12-20, 8-11
OTHERS 2x4 SP No.3	WEBS 2 Rows at 1/3 pts 12-16
WEDGE Left: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 16, 17, 20, 21
REACTIONS (lb/size) 2=1330/0-3-8, (min. 0-1-12), 11=1339/0-3-8, (min. 0-1-10)	This truss requires both edges of the bottom chord be sheathed in the room area.
Max Horiz 2=497 (LC 9)	
Max Uplift 2=-396 (LC 10), 11=-332 (LC 11)	
Max Grav 2=1484 (LC 18), 11=1380 (LC 2)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-43=-1888/513, 3-43=-1790/557, 3-4=-1683/582, 4-44=-454/301, 5-44=-407/323, 5-6=-397/437, 6-7=-398/413, 7-45=-1020/504, 8-45=-1112/483, 9-11=-196/265
BOT CHORD	2-47=-462/1733, 47-48=-462/1733, 15-48=-462/1733, 14-15=-302/1502, 13-14=-302/1502, 12-13=-296/1472, 11-12=-182/647
WEBS	3-15=-464/361, 4-15=-108/662, 13-16=-410/1072, 16-19=-318/331, 12-16=-3254/1401, 12-20=-950/2366, 7-20=-927/2307, 4-17=-1209/461, 16-17=-1182/442, 8-22=-1245/333, 11-22=-1333/338, 18-19=-298/212, 7-16=-2160/935, 12-21=-120/459, 8-21=-121/462

- 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) -1-2-8 to 1-11-6, Interior (1) 1-11-6 to 12-11-12, Exterior (2) 12-11-12 to 24-7-7, Interior (1) 24-7-7 to 29-7-10, Exterior (2) 29-7-10 to 32-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x3 MT20 unless otherwise indicated.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bottom chord live load (30.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-15
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 396 lb uplift at joint 2 and 332 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 SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard

Job 72402902	Truss A2	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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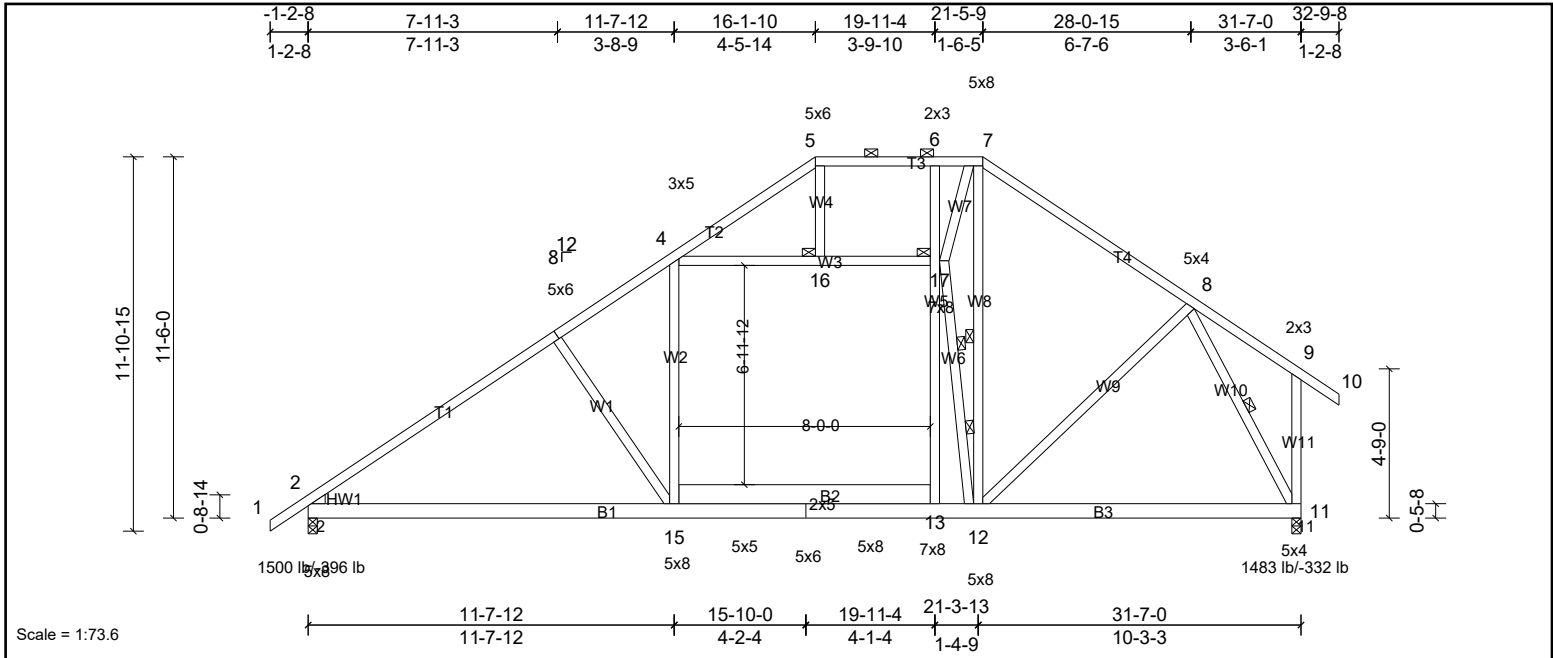


Plate Offsets (X, Y): [2:Edge,0-1-4], [3:0-3-0,0-3-0], [7:0-2-12,0-2-0], [11:0-2-0,0-2-12], [15:0-2-0,0-2-8], [17:0-3-8,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.40	15-20	>943	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.54	15-20	>694	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.04	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	0.13	13-15	>770	360	Weight: 274 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-3-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD	2x6 SP No.2 *Except* B2:2x8 SP No.2, B3:2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 12-13.
WEBS	2x4 SP No.3 *Except* W2,W5,W3:2x4 SP No.2	WEBS	1 Row at midpt 7-12, 8-11
WEDGE	Left: 2x4 SP No.2	WEBS	2 Rows at 1/3 pts 12-17
REACTIONS	(lb/size) 2=1330/0-3-8, (min. 0-1-12), 11=1339/0-3-8, (min. 0-1-12) Max Horiz 2=497 (LC 9) Max Uplift 2=-396 (LC 10), 11=-332 (LC 11) Max Grav 2=1500 (LC 18), 11=1483 (LC 2)	JOINTS	1 Brace at Jt(s): 16, 17 This truss requires both edges of the bottom chord be sheathed in the room area.
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-21=-1910/511, 3-21=-1812/555, 3-4=-1706/580, 4-22=-474/308, 5-22=-418/329, 5-6=-374/338, 6-7=-393/341, 7-23=-1122/522, 8-23=-1222/501, 9-11=-205/266		
BOT CHORD	2-25=-453/1744, 25-26=-453/1744, 15-26=-453/1744, 14-15=-296/1516, 13-14=-296/1516, 12-13=-285/1481, 12-27=-179/616, 27-28=-179/616, 11-28=-179/616		
WEBS	3-15=-462/357, 4-15=-50/587, 13-17=-682/1315, 6-17=-304/317, 7-12=-669/2025, 8-12=-124/513, 4-16=-1178/438, 16-17=-1179/439, 8-11=-1352/335, 7-17=-1651/535, 12-17=-3067/1351		

- 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) -1-2-8 to 1-11-6, Interior (1) 1-11-6 to 12-11-12, Exterior (2) 12-11-12 to 24-7-7, Interior (1) 24-7-7 to 29-7-10, Exterior (2) 29-7-10 to 32-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Bottom chord live load (30.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-15
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 396 lb uplift at joint 2 and 332 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 SPACE SHOWN IS DESIGNED AS UNINHABITABLE.
- LOAD CASE(S)** Standard

Job 72402902	Truss A4	Truss Type Truss	Qty 8	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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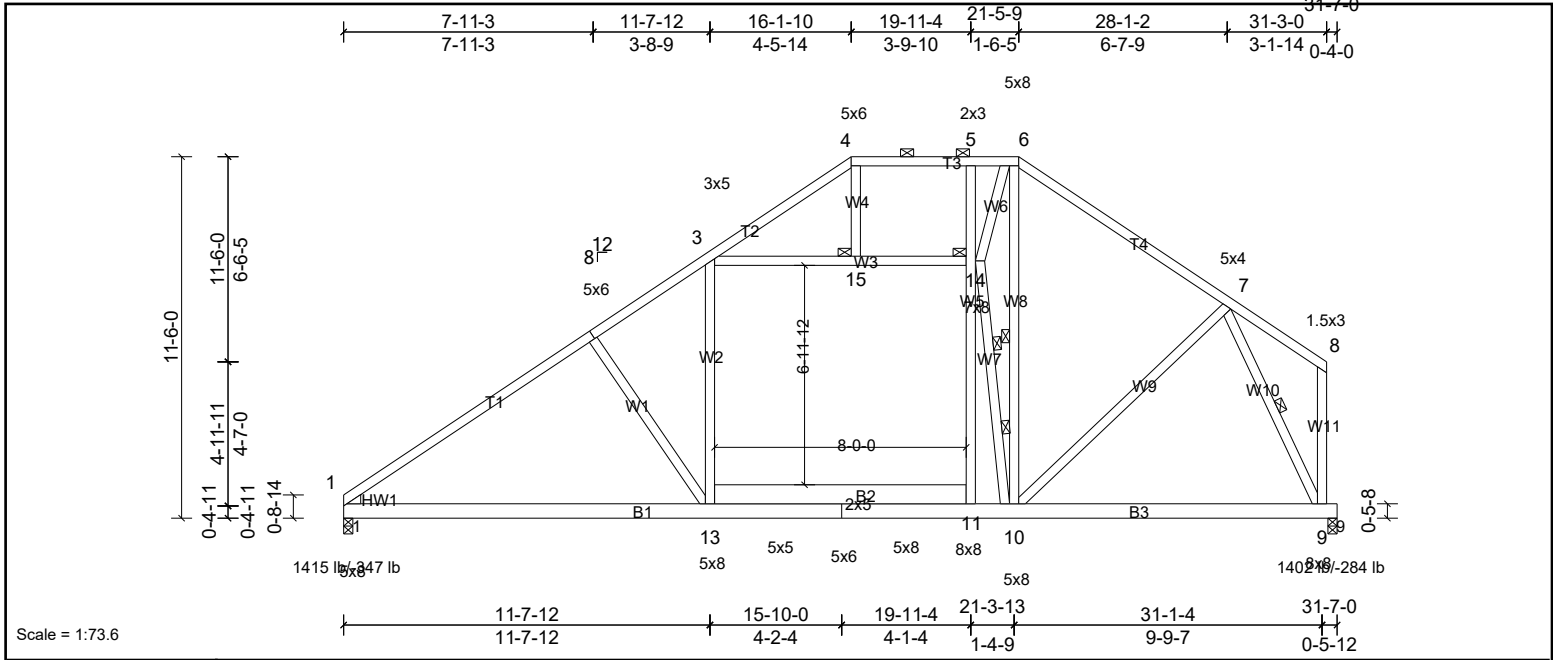


Plate Offsets (X, Y): [1:Edge,0-1-4], [2:0-3-0,0-3-0], [6:0-2-12,0-2-0], [9:0-3-8,0-4-0], [13:0-2-4,0-2-8], [14:0-3-8,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.41	13-18	>902	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.56	13-18	>668	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.04	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	0.13	11-13	>748	360	Weight: 270 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-3-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD	2x6 SP No.2 *Except* B2:2x8 SP No.2, B3:2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	2x4 SP No.3 *Except* W2,W5,W3:2x4 SP No.2	WEBS	1 Row at midpt 6-10, 7-9
WEDGE	Left: 2x4 SP No.2	WEBS	2 Rows at 1/3 pts 10-14
REACTIONS	(lb/size) 1=1244/0-3-8, (min. 0-1-11), 9=1244/0-3-8, (min. 0-1-10) Max Horiz 1=472 (LC 9) Max Uplift 1=-347 (LC 10), 9=-284 (LC 11) Max Grav 1=1415 (LC 18), 9=1402 (LC 2)	JOINTS	1 Brace at Jt(s): 14, 15 This truss requires both edges of the bottom chord be sheathed in the room area.
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	1-19=-1890/520, 2-19=-1793/552, 2-3=-1686/576, 3-20=-455/290, 4-20=-398/312, 4-5=-363/323, 5-6=-381/326, 6-21=-1089/507, 7-21=-1189/486		
BOT CHORD	1-22=-471/1717, 22-23=-471/1717, 13-23=-471/1717, 12-13=-311/1487, 11-12=-311/1487, 10-11=-300/1451, 10-24=-196/555, 24-25=-196/555, 9-25=-196/555		
WEBS	2-13=-461/359, 3-13=-52/588, 11-14=-694/1370, 5-14=-318/320, 10-14=-3129/1372, 6-10=-669/2007, 7-10=-133/543, 3-15=-1182/440, 14-15=-1183/442, 7-9=-1346/392, 6-14=-1636/534		

- 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) 0-0-0 to 3-1-14, Interior (1) 3-1-14 to 12-11-12, Exterior (2) 12-11-12 to 24-7-7, Interior (1) 24-7-7 to 27-11-6, Exterior (2) 27-11-6 to 31-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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) Bottom chord live load (30.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 11-13
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 347 lb uplift at joint 1 and 284 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.
 - 10) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.
- LOAD CASE(S)** Standard

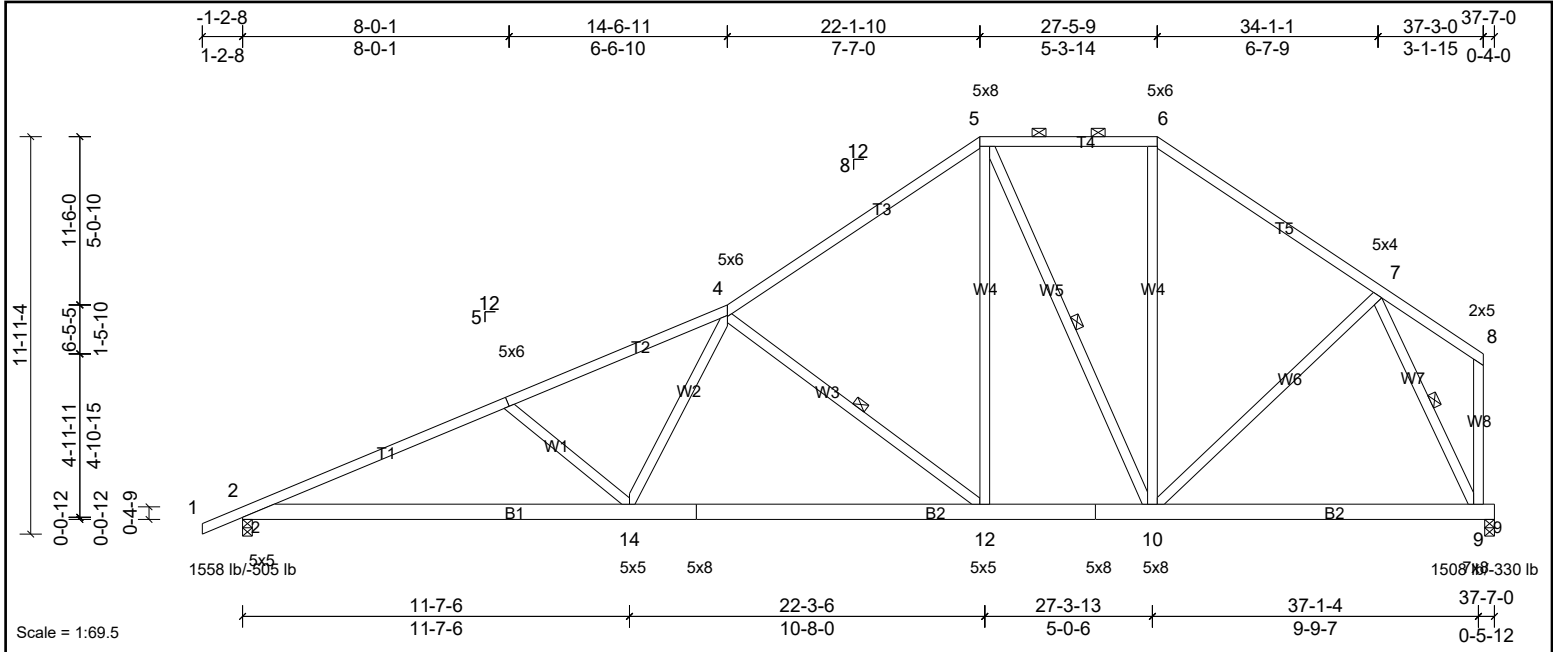
Job 72402902	Truss A5	Truss Type Truss	Qty 3	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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Scale = 1:69.5

Plate Offsets (X, Y): [3:0-3-0,0-3-4], [5:0-3-4,0-2-0], [9:0-3-8,0-4-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	0.24	14-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.41	14-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 263 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2 *Except* T3:2x4 SP SS	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-3-1 max.): 5-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt
REACTIONS	
(lb/size) 2=1558/0-3-8, (min. 0-1-13), 9=1483/0-3-8, (min. 0-1-12)	
Max Horiz 2=523 (LC 7)	
Max Uplift 2=-505 (LC 10), 9=-330 (LC 10)	
Max Grav 2=1558 (LC 1), 9=1508 (LC 2)	
FORCES	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-17=-3133/942, 3-17=-3064/971, 3-4=-2771/837, 4-18=-1567/606, 5-18=-1437/630, 5-6=-1112/564, 6-19=-1227/574, 7-19=-1299/553	
BOT CHORD 2-14=-1068/2828, 13-14=-716/2188, 13-20=-716/2188, 12-20=-716/2188, 11-12=-304/1222, 10-11=-304/1222, 10-21=-212/613, 21-22=-212/613, 9-22=-212/613	
WEBS 4-12=-1257/636, 5-12=-297/963, 5-10=-604/284, 6-10=-151/418, 7-10=-157/556, 7-9=-1501/462, 4-14=-154/711, 3-14=-469/383	

- 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) -1-2-8 to 1-11-6, Interior (1) 1-11-6 to 18-11-12, Exterior (2) 18-11-12 to 30-7-7, Interior (1) 30-7-7 to 33-11-6, Exterior (2) 33-11-6 to 37-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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 3-00-00 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 505 lb uplift at joint 2 and 330 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.

LOAD CASE(S) Standard

Job 72402902	Truss A6	Truss Type Truss	Qty 2	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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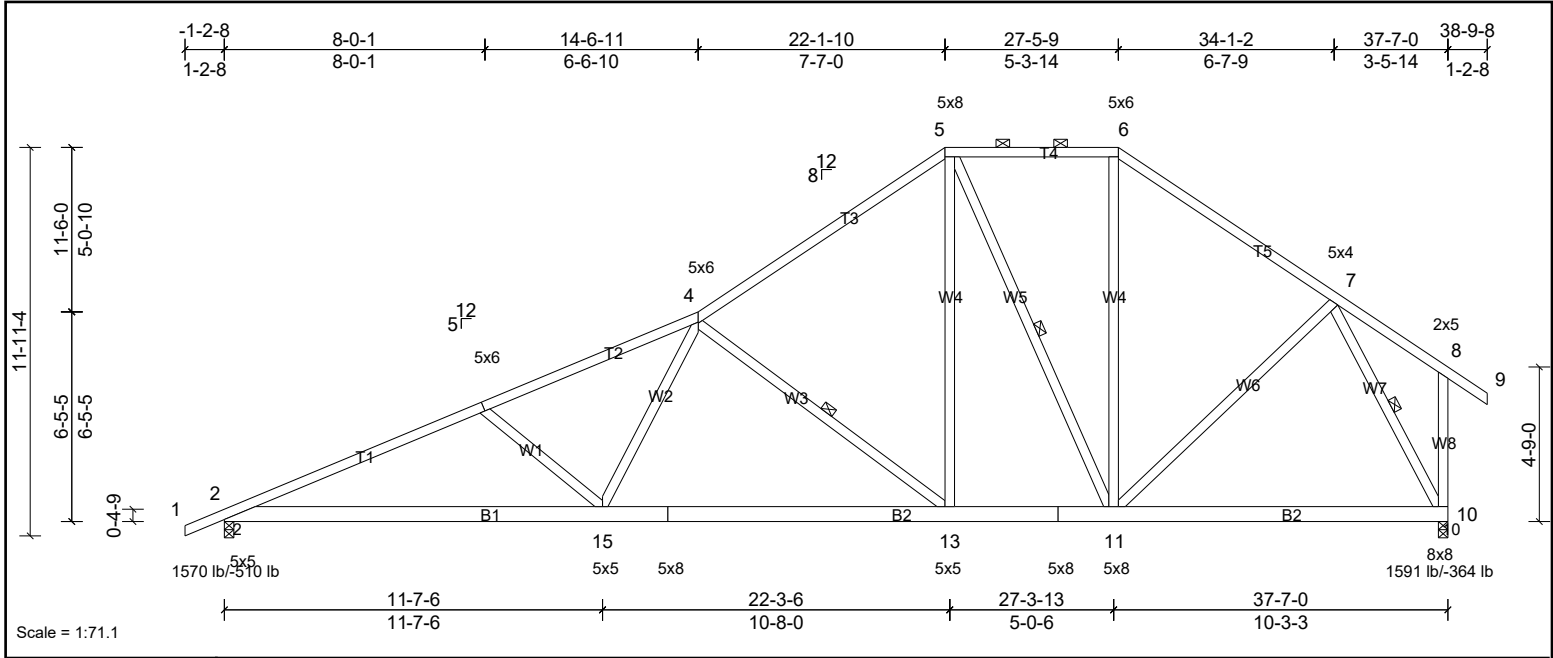


Plate Offsets (X, Y): [3:0-3-0,0-3-4], [5:0-3-4,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	0.24	15-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.41	15-17	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 266 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2 *Except* T3:2x4 SP SS	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-2-6 max.): 5-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-13, 5-11, 7-10

REACTIONS	(lb/size)
	2=1570/0-3-8, (min. 0-1-14), 10=1579/0-3-8, (min. 0-1-14)
	Max Horiz 2=530 (LC 9)
	Max Uplift 2=510 (LC 10), 10=364 (LC 11)
	Max Grav 2=1570 (LC 1), 10=1591 (LC 2)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-18=-3164/955, 3-18=-3095/984, 3-4=-2802/850, 4-19=-1595/625, 5-19=-1466/650, 5-6=-1136/583, 6-20=-1256/596, 7-20=-1335/575, 8-10=-198/260
BOT CHORD	2-15=-1058/2857, 14-15=-706/2216, 14-22=-706/2216, 13-22=-706/2216, 12-13=-291/1247, 11-12=-291/1247, 11-23=-198/671, 23-24=-198/671, 10-24=-198/671
WEBS	4-13=-1263/639, 5-13=-301/962, 5-11=-590/280, 6-11=-158/435, 7-11=-148/534, 7-10=-1509/383, 4-15=-154/711, 3-15=-469/383

- 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 (1) -1-2-8 to 1-11-6, Interior (1) 1-11-6 to 18-11-12, Exterior (2) 18-11-12 to 30-7-7, Interior (1) 30-7-7 to 35-7-10, Exterior (2) 35-7-10 to 38-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-00-00 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 510 lb uplift at joint 2 and 364 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 72402902	Truss A7	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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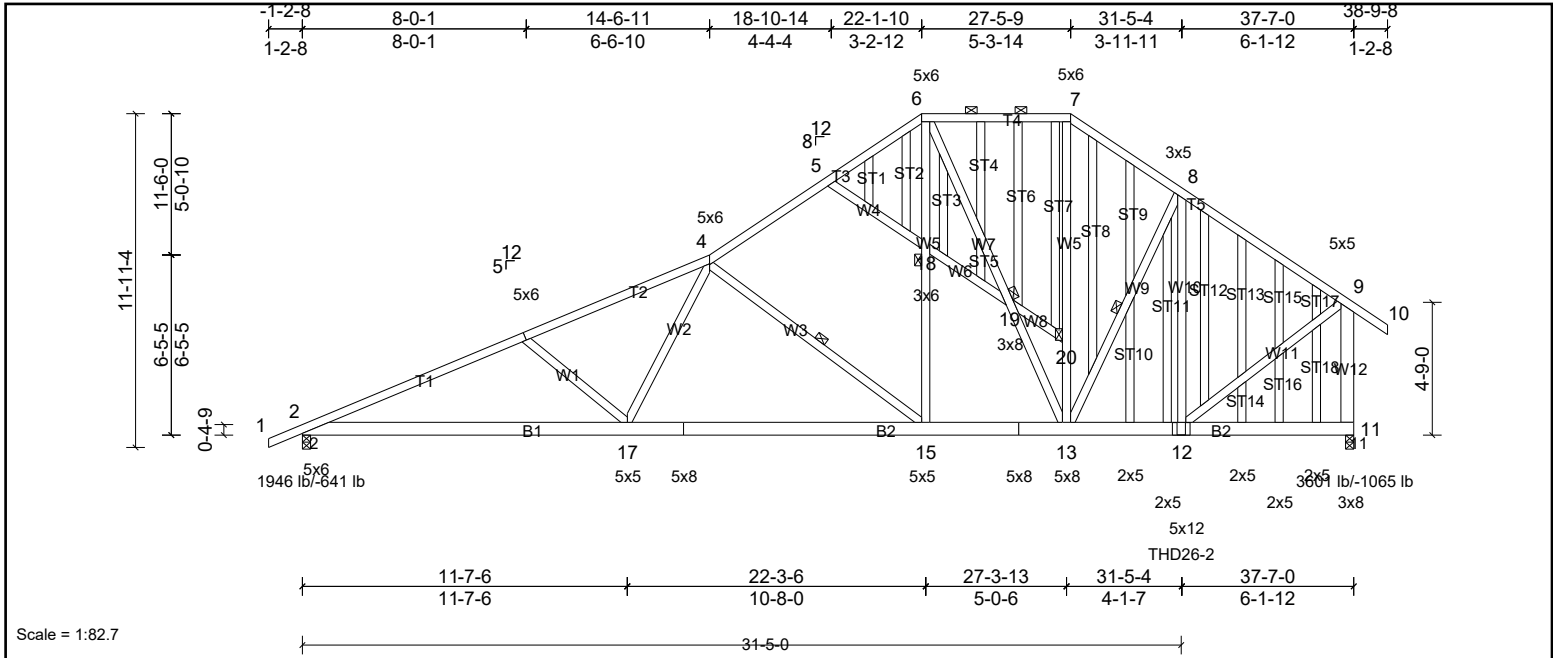


Plate Offsets (X, Y):	[3:0-3-0,0-3-4], [6:0-4-12,Edge], [9:0-1-8,0-1-8], [11:Edge,0-5-8], [19:0-1-1,0-0-12]
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Loading	(psf)	Spacing	2-0-0	CSI	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	0.25	17-52	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.43	15-17	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.09	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 412 lb	FT = 20%

LUMBER	BRACING
TOP CHORD	TOP CHORD
2x4 SP No.2 *Except* T2:2x4 SP SS, T1:2x4 SP No.1	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-7-7 max.): 6-7.
BOT CHORD	BOT CHORD
2x6 SP No.2 *Except* B1:2x6 SP No.1	Rigid ceiling directly applied or 6-7-1 oc bracing.
WEBS	WEBS
2x4 SP No.3 *Except* W12:2x6 SP No.2, W11:2x4 SP No.2	1 Row at midpt
OTHERS	JOINTS
2x4 SP No.3	1 Brace at Jt(s): 18, 19, 20
REACTIONS	
(lb/size) 2=1946/0-3-8, (min. 0-2-5), 11=3601/0-3-8, (req. 0-4-4)	
Max Horiz 2=531 (LC 7)	
Max Uplift 2=641 (LC 8), 11=1065 (LC 9)	
FORCES	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	
2-3=-4141/1326, 3-4=-3776/1188, 4-5=-2513/826, 5-6=-2301/787, 6-7=-1920/756, 7-8=-2379/888, 8-9=-2862/958, 9-11=-3513/1079	
BOT CHORD	
2-17=-1374/3759, 16-17=-1011/3113, 16-53=-1011/3113, 15-53=-1011/3113, 14-15=-566/2010, 13-14=-566/2010, 13-54=-639/2294, 12-54=-639/2294	
WEBS	
15-18=-273/1084, 6-18=-301/1124, 6-19=-234/436, 13-19=-251/484, 13-20=-393/1064, 7-20=-419/1068, 4-15=-1387/632, 4-17=-165/706, 3-17=-476/396, 8-13=-1061/558, 8-12=-405/946, 9-12=-775/2822	

- NOTES**
- 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
 - Truss designed for wind loads in the plane of the truss only.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x3 MT20 unless otherwise indicated.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - WARNING: Required bearing size at joint(s) 11 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 641 lb uplift at joint 2 and 1065 lb uplift at joint 11.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 31-5-0 from the left end to connect truss(es) C6 (2 ply 2x6 SP) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - 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: 1-4=-60, 4-6=-60, 6-7=-60, 7-9=-60, 9-10=-60, 2-11=-20
- Concentrated Loads (lb)
- Vert: 12=-2400 (B)

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 72402902	Truss B1	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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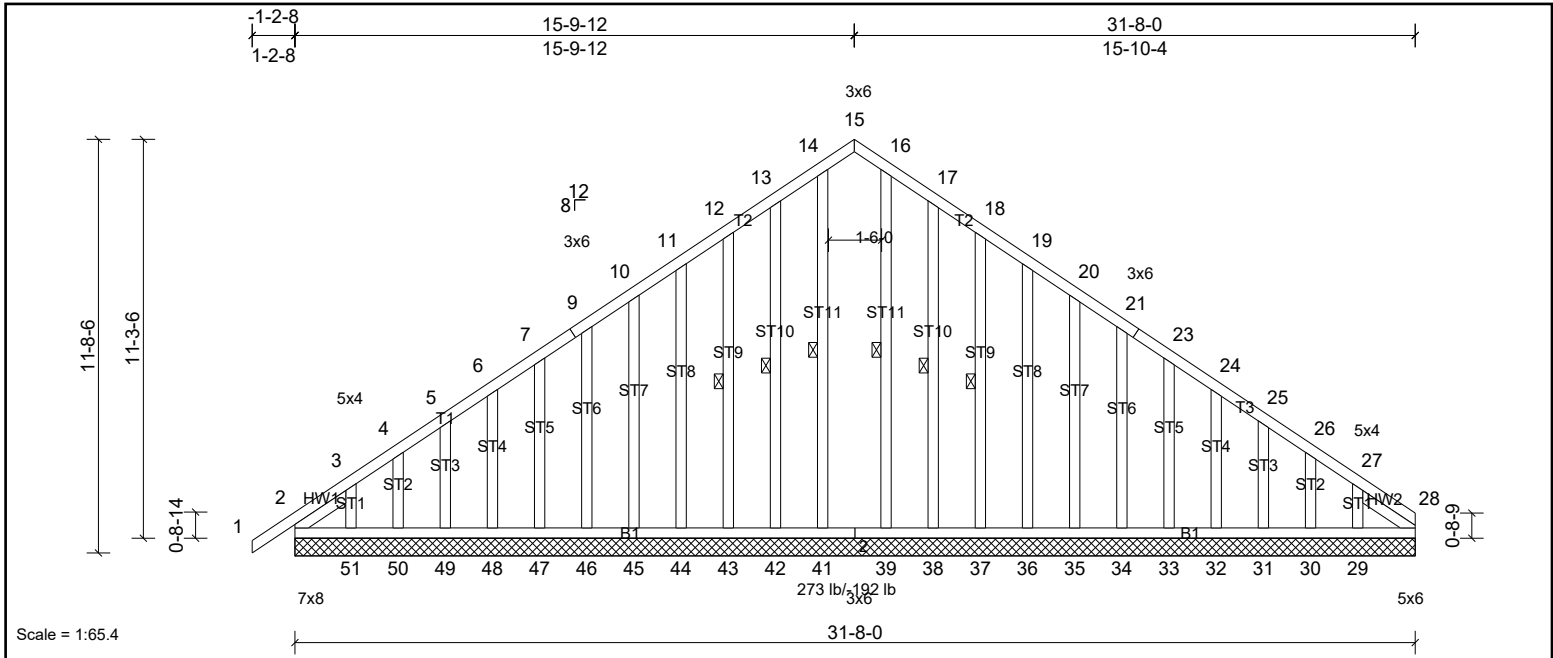


Plate Offsets (X, Y): [2:Edge,0-3-4], [15:0-3-0,Edge], [28:Edge,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.02	28	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 298 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt
SLIDER Left 2x4 SP No.3 -- 1-9-6, Right 2x4 SP No.3 -- 1-9-13	

REACTIONS
 All bearings 31-8-0.
 (lb) - Max Horiz 2=390 (LC 9), 52=390 (LC 9)
 Max Uplift All uplift 100 (lb) or less at joint(s) 28, 30, 31, 32, 33, 34, 35, 36, 37, 41, 43, 44, 45, 46, 47, 48, 49, 50, 56 except 2=131 (LC 6), 29=186 (LC 11), 38=112 (LC 11), 42=103 (LC 10), 51=192 (LC 10), 52=131 (LC 6)
 Max Grav All reactions 250 (lb) or less at joint(s) 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51 except 2=274 (LC 19), 28=266 (LC 11), 52=274 (LC 19), 56=266 (LC 11)

FORCES
 (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=-368/253, 4-5=-312/234, 5-6=-253/212, 13-14=-253/289, 16-17=-253/283, 26-27=-295/192
 BOT CHORD 2-51=-221/328, 50-51=-221/328, 49-50=-221/328, 48-49=-221/328, 47-48=-221/328, 46-47=-221/328, 45-46=-221/328, 44-45=-221/328, 43-44=-221/328, 42-43=-221/328, 41-42=-221/328, 40-41=-221/328, 39-40=-221/328, 38-39=-221/328, 37-38=-221/328, 36-37=-221/328, 35-36=-221/328, 34-35=-221/328, 33-34=-221/328, 32-33=-221/328, 31-32=-221/328, 30-31=-221/328, 29-30=-221/328, 28-29=-221/328

- 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 Corner (3) 1-1-2 to 1-11-8, Exterior (2) 1-11-8 to 12-7-12, Corner (3) 12-7-12 to 18-11-12, Exterior (2) 18-11-12 to 28-6-0, Corner (3) 28-6-0 to 31-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only.
 - All plates are 2x3 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 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) 28, 41, 43, 44, 45, 46, 47, 48, 49, 50, 37, 36, 35, 34, 33, 32, 31, 30, 28 except (jt=lb) 2=131, 42=102, 51=192, 38=111, 29=186, 2=131.
 - 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 72402902	Truss B2	Truss Type Truss	Qty 4	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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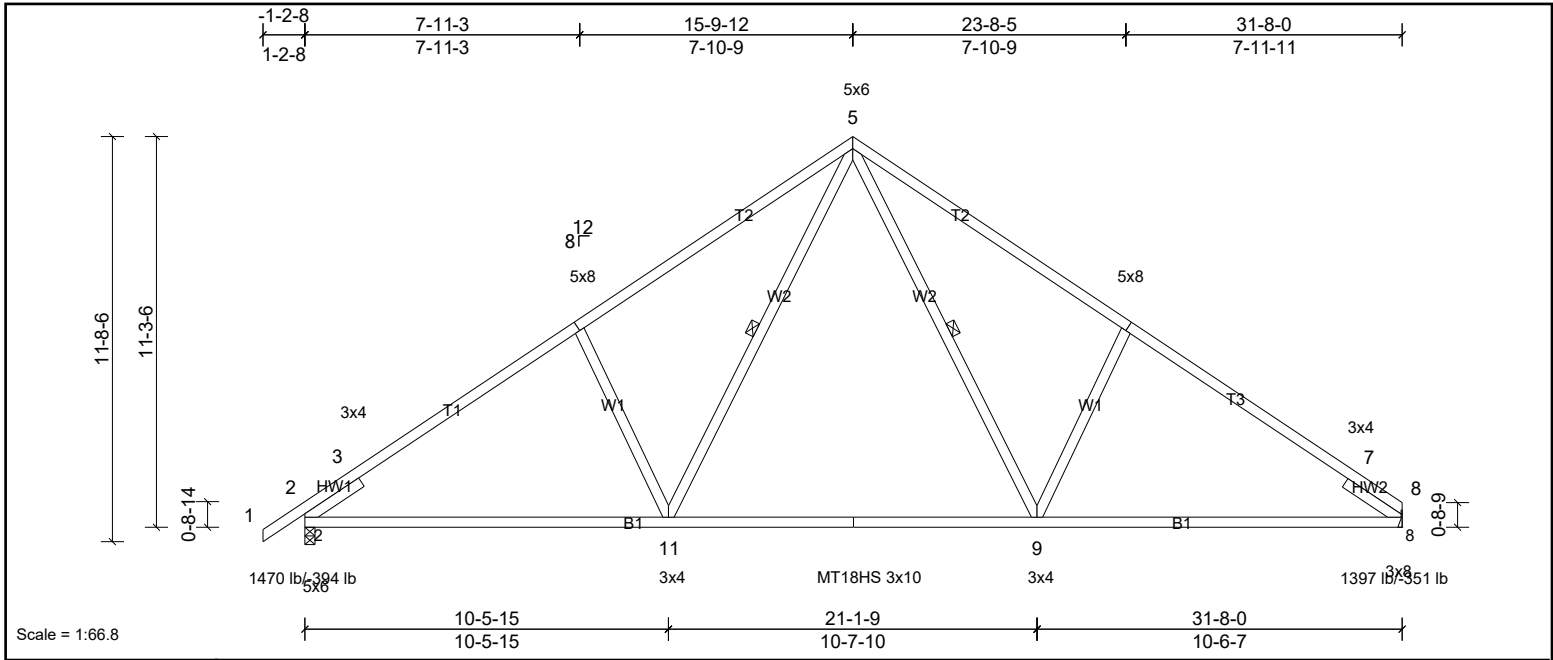


Plate Offsets (X, Y):	[4:0-4-0,0-3-0], [6:0-4-0,0-3-0], [8:0-4-5,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.41	9-11	>923	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.61	9-11	>626	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 165 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.1 *Except* T1,T3;2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 8-6-4 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-11, 5-9
SLIDER Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0	
REACTIONS	
(lb/size) 2=1341/0-3-8, (min. 0-1-12), 8=1265/ Mechanical, (min. 0-1-8)	
Max Horiz 2=390 (LC 9)	
Max Uplift 2=-394 (LC 10), 8=-351 (LC 11)	
Max Grav 2=1470 (LC 18), 8=1397 (LC 19)	
FORCES	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-942/0, 3-20=-1902/482, 4-20=-1828/525, 4-21=-1796/608, 5-21=-1742/632, 5-22=-1746/642, 6-22=-1808/619, 6-23=-1753/534, 7-23=-1863/503, 7-8=-940/0	
BOT CHORD 2-24=-527/1761, 24-25=-504/1761, 11-25=-504/1761, 11-26=-142/1138, 10-26=-142/1138, 10-27=-142/1138, 9-27=-142/1138, 9-28=-295/1503, 28-29=-295/1503, 8-29=-295/1503	
WEBS 4-11=-574/484, 5-11=-360/945, 5-9=-367/963, 6-9=-578/488	

- 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) -1-2-8 to 1-11-8, Interior (1) 1-11-8 to 12-7-12, Exterior (2) 12-7-12 to 18-11-12, Interior (1) 18-11-12 to 28-6-0, Exterior (2) 28-6-0 to 31-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates 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, 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 394 lb uplift at joint 2 and 351 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.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.
- LOAD CASE(S)** Standard

Job 72402902	Truss B3	Truss Type Truss	Qty 2	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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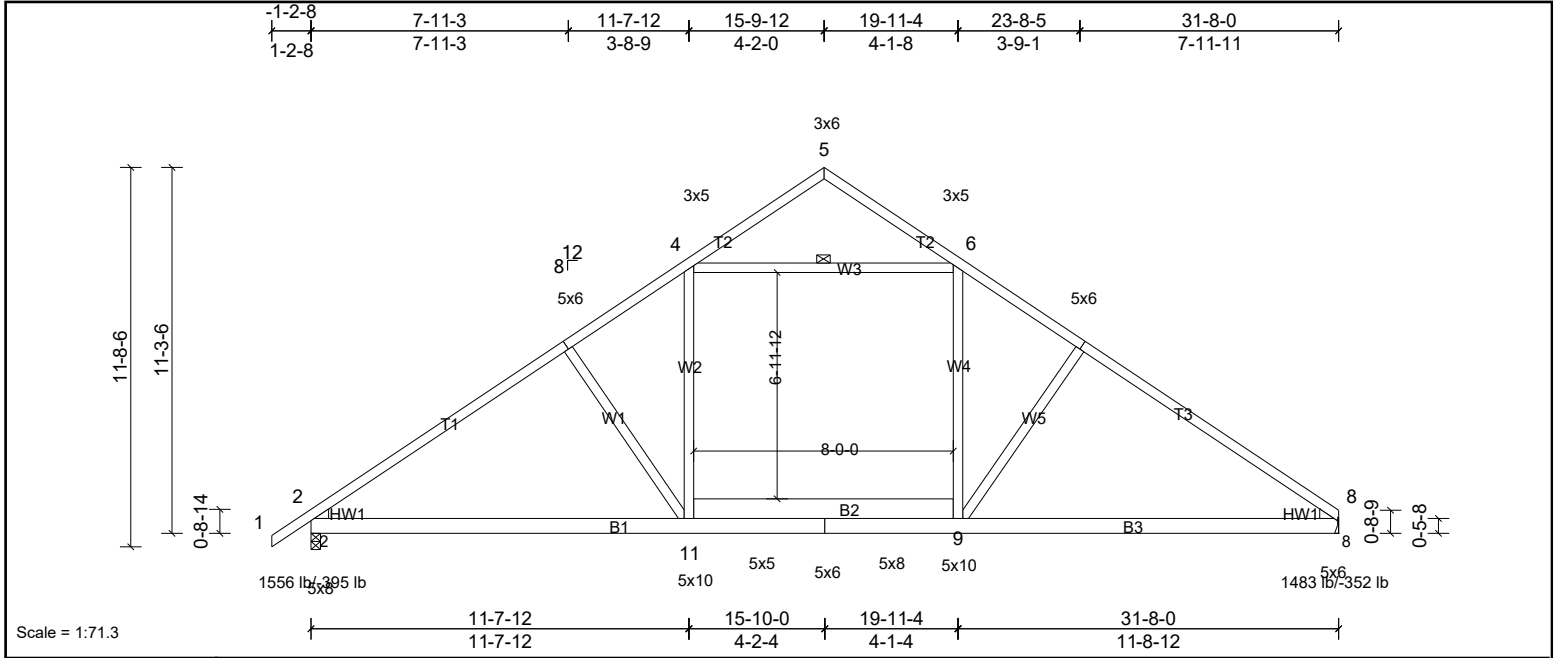


Plate Offsets (X, Y): [2:Edge,0-1-4], [3:0-3-0,0-3-0], [5:0-3-0,Edge], [7:0-3-0,0-3-4], [8:Edge,0-1-7], [9:0-2-4,0-2-8], [11:0-2-4,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	0.52	11-14	>725	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.61	9-17	>622	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.27	9-11	>362	360	Weight: 213 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-11-7 oc purlins.
BOT CHORD	2x6 SP No.2 *Except* B2:2x8 SP No.2	BOT CHORD	Rigid ceiling directly applied or 9-7-10 oc bracing.
WEBS	2x4 SP No.2 *Except* W1,W5:2x4 SP No.3	WEBS	1 Row at midpt 4-6
WEDGE	Left: 2x4 SP No.2 Right: 2x4 SP No.2		This truss requires both edges of the bottom chord be sheathed in the room area.
REACTIONS	(lb/size) 2=1341/0-3-8, (min. 0-1-13), 8=1265/ Mechanical, (min. 0-1-8) Max Horiz 2=390 (LC 9) Max Uplift 2=-395 (LC 10), 8=-352 (LC 11) Max Grav 2=1556 (LC 18), 8=1483 (LC 19)		
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-18=-2052/480, 3-18=-1931/523, 3-4=-1848/546, 4-19=-298/143, 5-19=-265/165, 5-20=-264/166, 6-20=-296/142, 6-7=-1850/553, 7-21=-1941/532, 8-21=-2067/500		
BOT CHORD	2-22=-451/1818, 22-23=-451/1818, 11-23=-451/1818, 10-11=-229/1581, 9-10=-229/1581, 9-24=-300/1651, 24-25=-300/1651, 8-25=-300/1651		
WEBS	3-11=-429/393, 4-11=-114/699, 6-9=-122/718, 4-6=-1294/427, 7-9=-443/406		

- 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) -1-2-8 to 1-11-8, Interior (1) 1-11-8 to 12-7-12, Exterior (2) 12-7-12 to 18-11-12, Interior (1) 18-11-12 to 28-6-0, Exterior (2) 28-6-0 to 31-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Bottom chord live load (30.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 9-11
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 395 lb uplift at joint 2 and 352 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.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.
- LOAD CASE(S)** Standard

Job 72402902	Truss B4	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFPI Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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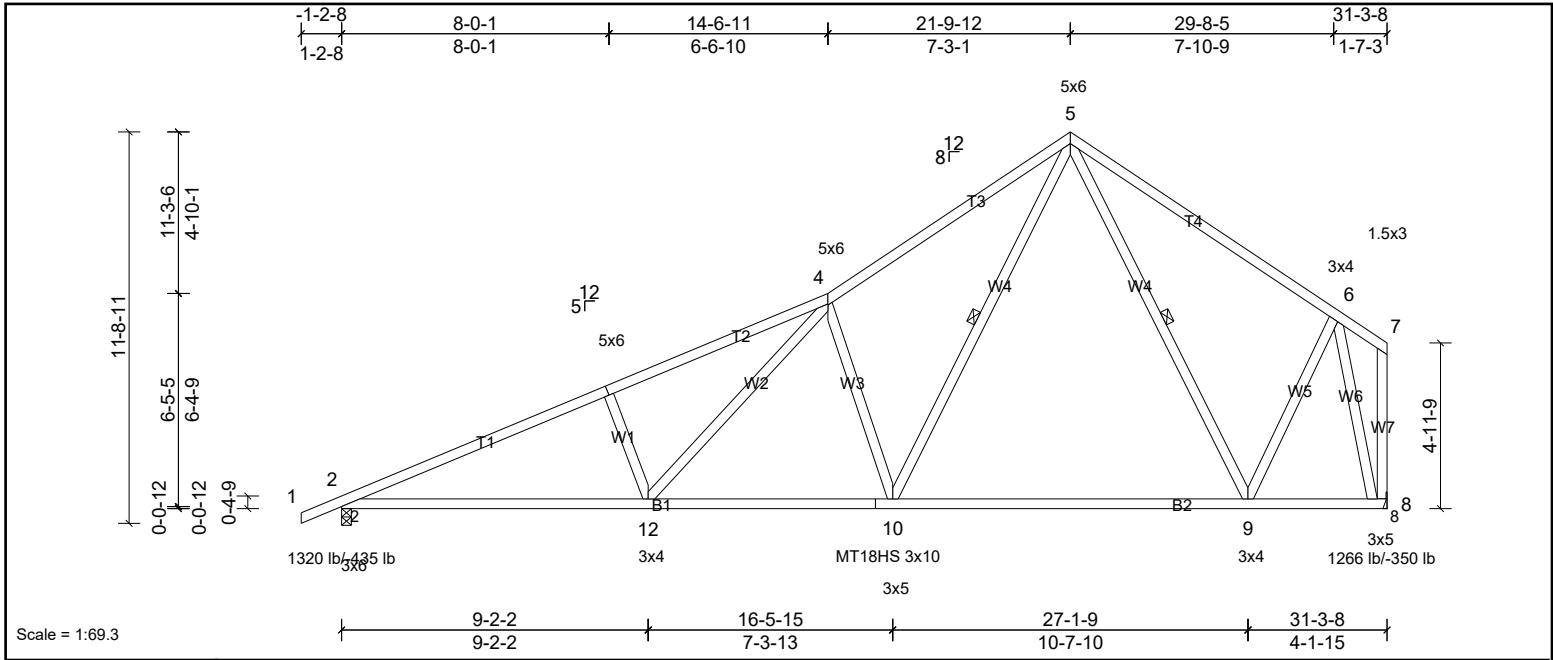


Plate Offsets (X, Y): [3:0-3-0,0-3-4], [11:0-4-11,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.45	9-10	>837	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.75	9-10	>499	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 188 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2 *Except* T3:2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-10, 5-9

REACTIONS	(lb/size)
	2=1320/0-3-8, (min. 0-1-9), 8=1244/ Mechanical, (min. 0-1-8)
	Max Horiz 2=428 (LC 10)
	Max Uplift 2=-435 (LC 10), 8=-350 (LC 10)
	Max Grav 2=1320 (LC 1), 8=1266 (LC 2)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-16=-2522/744, 3-16=-2447/774, 3-4=-2371/822, 4-17=-1737/633, 5-17=-1619/657, 5-18=-841/383, 18-19=-849/359, 6-19=-902/335, 7-8=-241/262
BOT CHORD	2-12=-1009/2259, 12-20=-653/1641, 20-21=-653/1641, 11-21=-653/1641, 10-11=-653/1641, 10-22=-234/785, 22-23=-234/785, 9-23=-234/785, 8-9=-133/369
WEBS	5-10=-529/1366, 4-10=-997/621, 5-9=-361/209, 6-9=-83/729, 3-12=-438/362, 4-12=-354/780, 6-8=-1584/560

- 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) -1-2-8 to 1-9-8, Interior (1) 1-9-8 to 18-9-12, Exterior (2) 18-9-12 to 24-9-12, Interior (1) 24-9-12 to 28-1-12, Exterior (2) 28-1-12 to 31-1-12 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates 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 3-00-06 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 435 lb uplift at joint 2 and 350 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

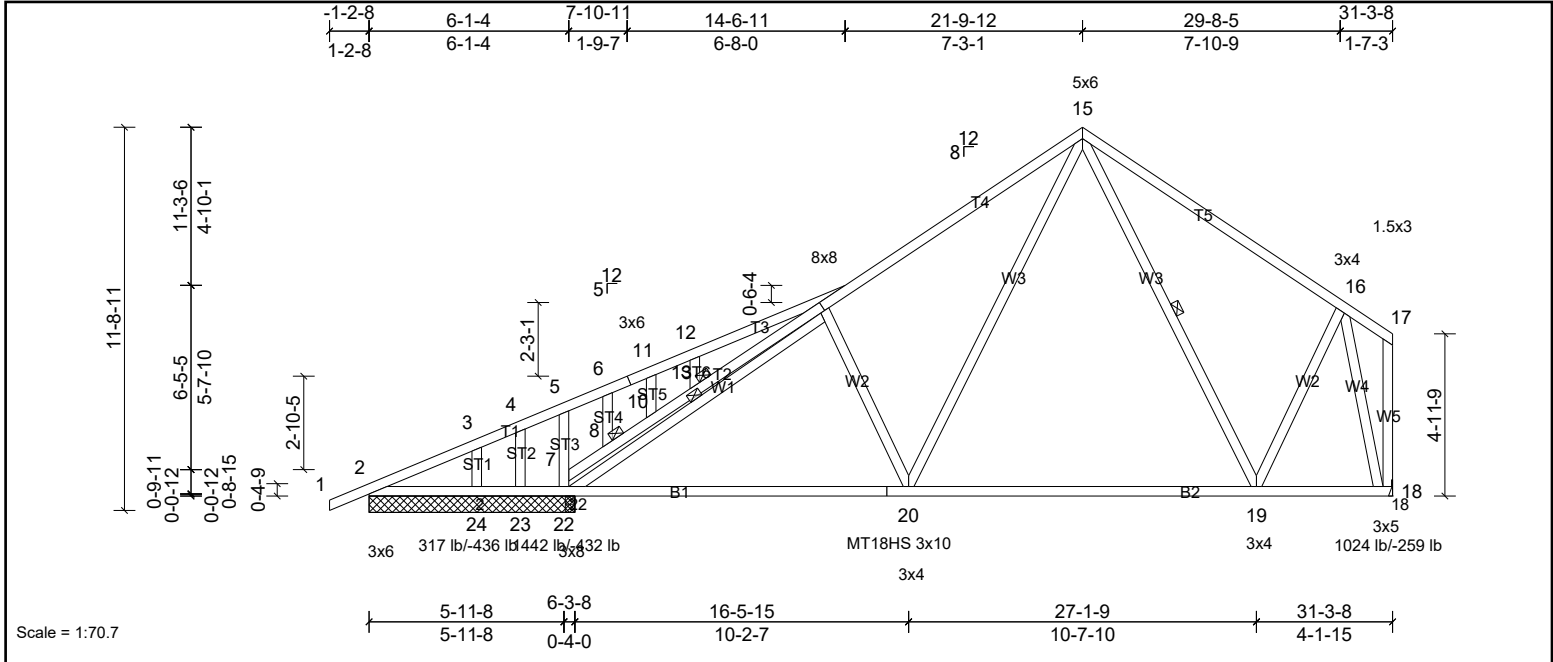
Job 72402902	Truss B5	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.42	19-20	>719	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.63	19-20	>481	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.03	18	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH						Weight: 213 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 15-19, 14-22
OTHERS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 13, 8
REACTIONS	
All bearings 6-3-8. except 18= Mechanical, 22=0-3-8	
(lb) - Max Horiz 2=428 (LC 10), 25=428 (LC 10)	
Max Uplift All uplift 100 (lb) or less at joint(s) except 2=-115 (LC 6), 18=-260 (LC 10), 22=-433 (LC 10), 23=-437 (LC 3), 24=-136 (LC 10), 25=-115 (LC 6)	
Max Grav All reactions 250 (lb) or less at joint(s) 2, 23, 25 except 18=1024 (LC 18), 22=1443 (LC 2), 24=318 (LC 1)	
FORCES	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 12-14=-28/255, 7-8=-437/120, 8-10=-441/141, 10-13=-450/143, 13-14=-398/78, 14-29=-1199/442, 15-29=-1099/465, 15-30=-697/342, 30-31=-704/318, 16-31=-762/294, 17-18=-244/269	
BOT CHORD 22-32=-471/1066, 32-33=-471/1066, 21-33=-471/1066, 20-21=-471/1066, 20-34=-156/611, 34-35=-156/611, 19-35=-156/611, 18-19=-117/317	
WEBS 16-18=-1366/498, 15-20=-310/784, 14-20=-431/451, 16-19=-37/578, 7-22=-667/425, 5-7=-467/378, 14-22=-933/268	

- 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) -1-2-8 to 1-9-8, Interior (1) 1-9-8 to 18-9-12, Exterior (2) 18-9-12 to 24-9-12, Interior (1) 24-9-12 to 28-1-12, Exterior (2) 28-1-12 to 31-1-12 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x3 MT20 unless otherwise indicated.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 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 114 lb uplift at joint 2, 259 lb uplift at joint 18, 436 lb uplift at joint 23, 135 lb uplift at joint 24, 432 lb uplift at joint 22 and 114 lb uplift at joint 2.
 - 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 72402902	Truss B6	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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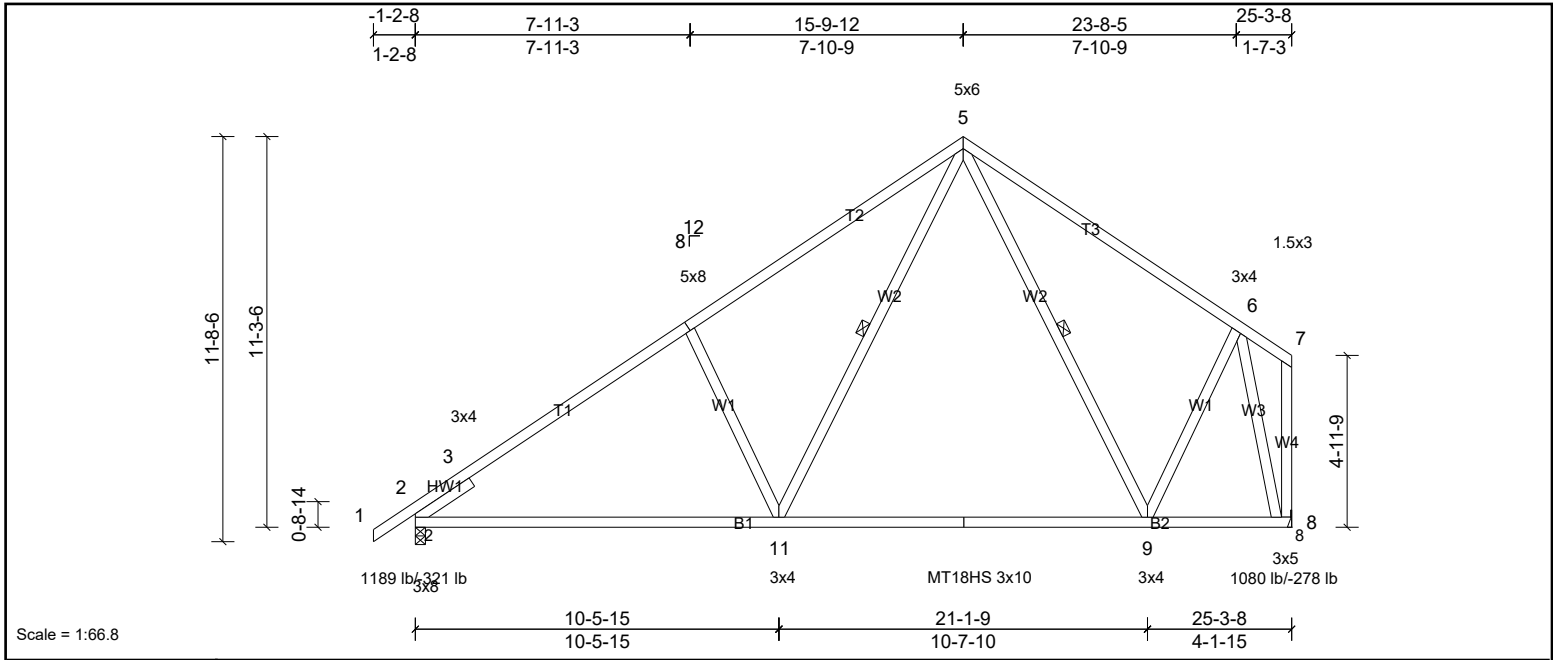


Plate Offsets (X, Y): [2:0-4-11,Edge], [4:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.44	9-11	>682	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.66	9-11	>458	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 156 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.1 *Except* B2:2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-11, 5-9
SLIDER Left 2x4 SP No.3 -- 1-11-0	

REACTIONS	(lb/size)	2=1080/0-3-8, (min. 0-1-8), 8=1004/ Mechanical, (min. 0-1-8)
Max Horiz	2=423 (LC 10)	
Max Uplift	2=-321 (LC 10), 8=-278 (LC 10)	
Max Grav	2=1189 (LC 17), 8=1080 (LC 17)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-809/0, 3-16=-1434/336, 4-16=-1274/380, 4-17=-1331/479, 5-17=-1258/502, 5-18=-735/347, 18-19=-742/323, 6-19=-790/299, 7-8=-244/270
BOT CHORD	2-20=-605/1328, 20-21=-539/1328, 11-21=-539/1328, 11-22=-173/680, 10-22=-173/680, 10-23=-173/680, 9-23=-173/680, 8-9=-119/322
WEBS	4-11=-590/490, 5-11=-364/985, 5-9=-282/162, 6-9=-39/632, 6-8=-1377/505

- 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) -1-2-8 to 1-9-8, Interior (1) 1-9-8 to 12-9-12, Exterior (2) 12-9-12 to 18-9-12, Interior (1) 18-9-12 to 22-1-12, Exterior (2) 22-1-12 to 25-1-12 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates 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, 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 321 lb uplift at joint 2 and 278 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 72402902	Truss B7	Truss Type Truss	Qty 6	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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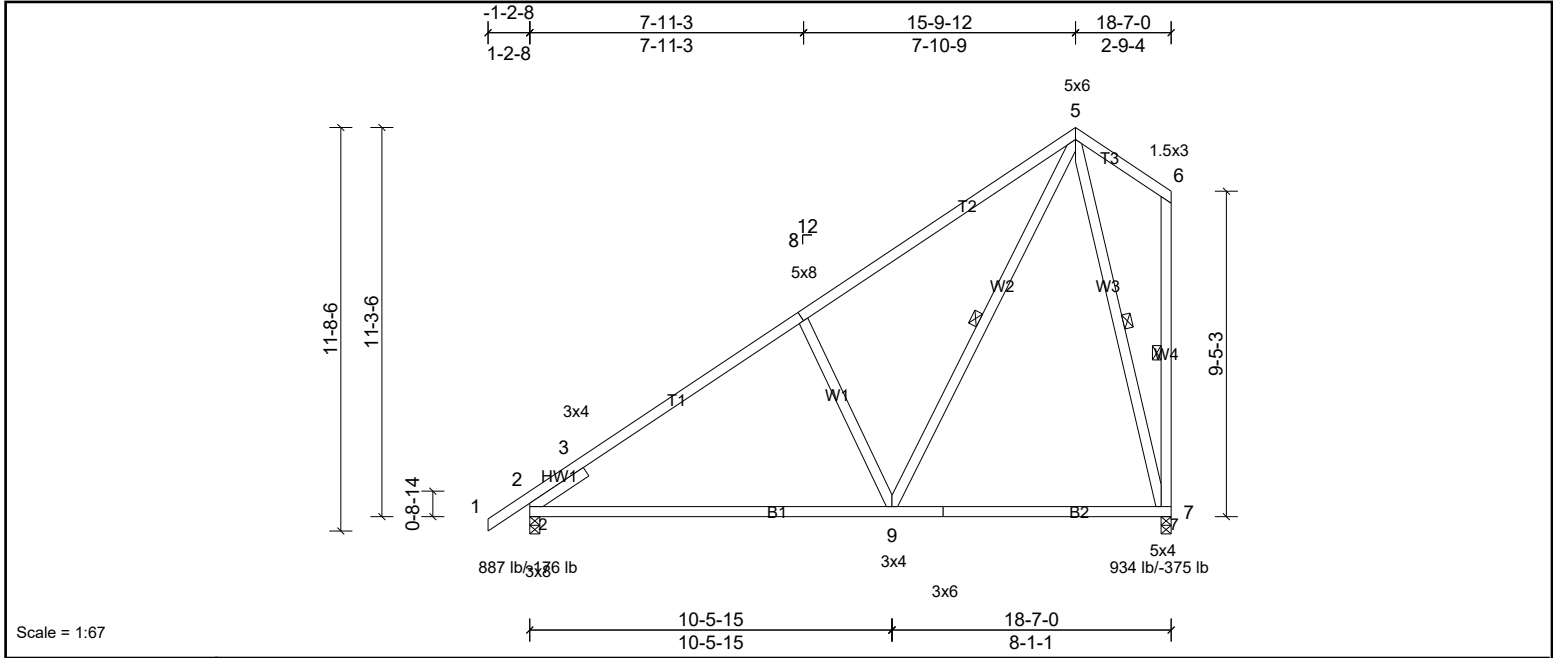


Plate Offsets (X, Y): [2:0-4-11,Edge], [4:0-4-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.21	9-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.45	9-12	>491	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.05	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 123 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt
SLIDER	Left 2x4 SP No.3 -- 1-11-0		5-9, 6-7, 5-7

REACTIONS	
(lb/size)	2=812/0-3-8, (min. 0-1-8), 7=735/0-3-8, (min. 0-1-8)
Max Horiz	2=562 (LC 10)
Max Uplift	2=-176 (LC 10), 7=-375 (LC 10)
Max Grav	2=887 (LC 17), 7=934 (LC 17)

FORCES	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-797/0, 3-14=-900/95, 4-14=-753/135, 4-15=-813/240, 5-15=-675/263
BOT CHORD	2-16=-662/853, 16-17=-483/853, 9-17=-483/853
WEBS	4-9=-626/499, 5-9=-391/970, 5-7=-840/443

- 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) -1-2-8 to 1-9-8, Interior (1) 1-9-8 to 12-9-12, Exterior (2) 12-9-12 to 18-5-4 zone; cantilever left and right exposed; end vertical left 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 2 and 375 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.

LOAD CASE(S) Standard

Job 72402902	Truss B8	Truss Type Truss	Qty 5	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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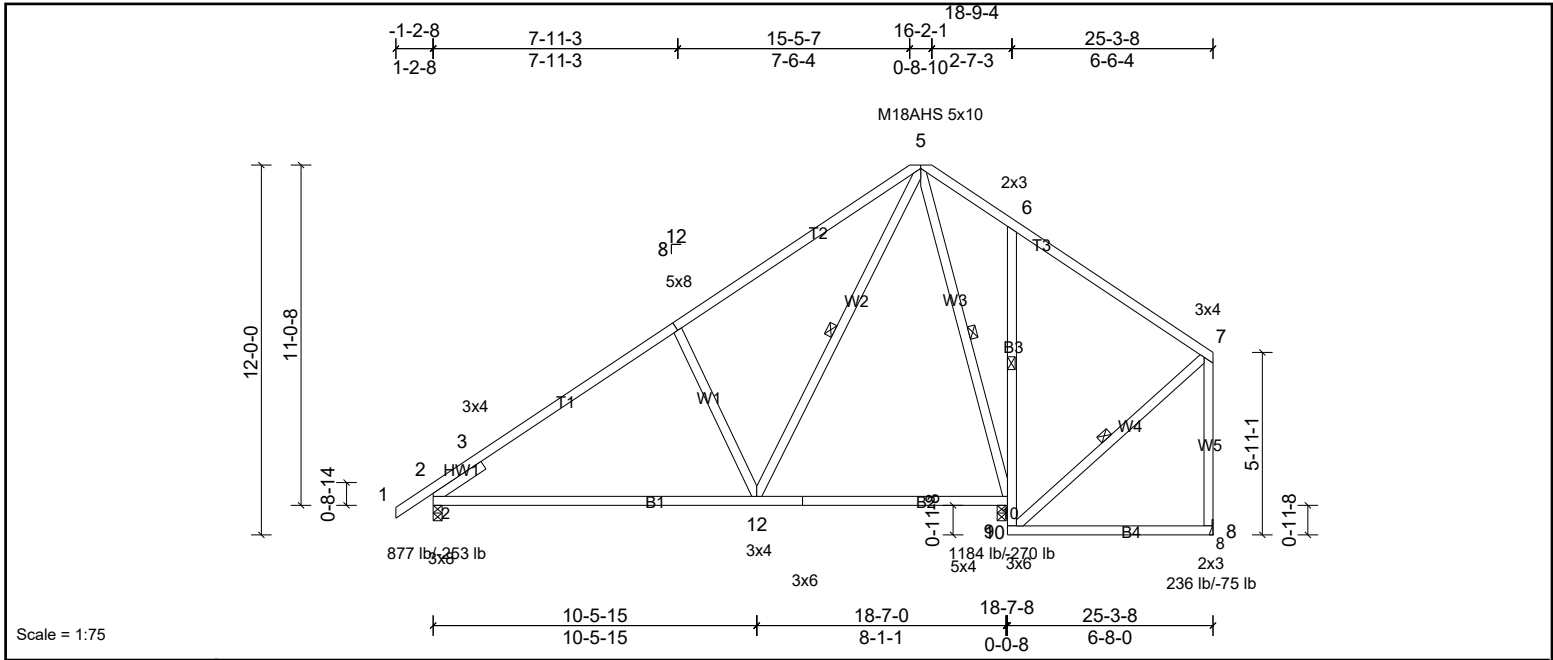


Plate Offsets (X, Y): [2:0-4-11,Edge], [4:0-4-0,0-3-4], [7:0-1-4,0-1-8], [10:0-2-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.21	12-15	>999	240	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.44	12-15	>508	180	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.04	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH								Weight: 166 lb FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-2-14 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* B3:2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 2-12.
WEBS 2x4 SP No.3	6-10
SLIDER Left 2x4 SP No.3 -- 1-11-0	1 Row at midpt
REACTIONS (lb/size)	WEBS 1 Row at midpt
2=819/0-3-8, (min. 0-1-8), 8=236/ Mechanical, (min. 0-1-8), 10=1029/0-3-8, (min. 0-1-8)	5-10, 7-9, 5-12
Max Horiz 2=420 (LC 10)	
Max Uplift 2=253 (LC 10), 8=75 (LC 10), 10=270 (LC 10)	
Max Grav 2=877 (LC 17), 8=236 (LC 1), 10=1184 (LC 17)	
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-808/0, 3-17=-884/226, 4-17=-800/266, 4-18=-880/367, 5-18=-826/389, 5-6=-307/295	
BOT CHORD 2-20=-580/889, 20-21=-447/889, 12-21=-447/889, 6-10=-416/359	
WEBS 4-12=-612/489, 5-10=-857/239, 5-12=-381/968	

- 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) -1-2-8 to 1-9-8, Interior (1) 1-9-8 to 12-9-12, Exterior (2) 12-9-12 to 18-10-4, Interior (1) 18-10-4 to 22-1-12, Exterior (2) 22-1-12 to 25-1-12 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates 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, 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 270 lb uplift at joint 10, 75 lb uplift at joint 8 and 253 lb uplift at joint 2.
 - 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

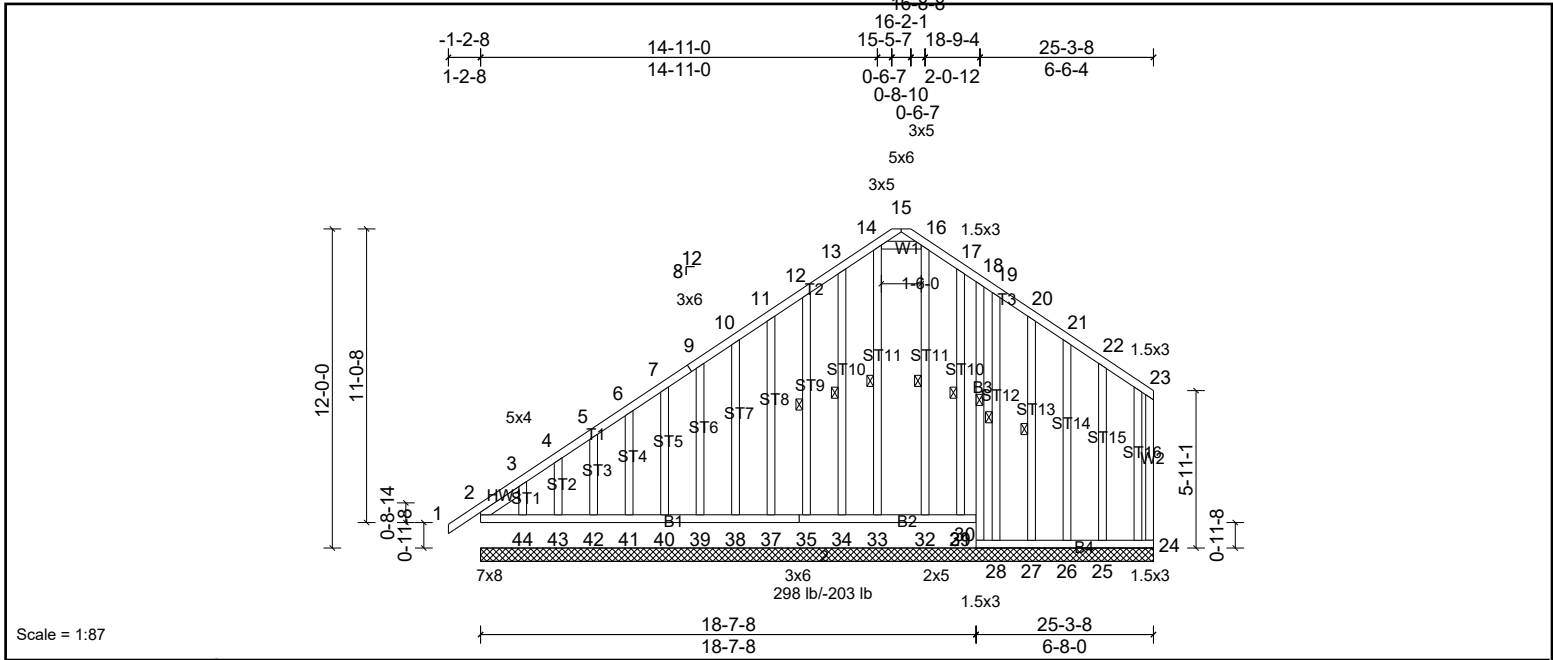
Job 72402902	Truss B9	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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Scale = 1:87

Plate Offsets (X, Y):	[2:Edge,0-3-4], [36:0-2-4,0-1-8]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC		Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 291 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2 *Except* B3:2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
WEBS	2x4 SP No.3	1 Row at midpt	18-30
OTHERS	2x4 SP No.3	WEBS	1 Row at midpt
SLIDER	Left 2x4 SP No.3 -- 1-9-6		
REACTIONS	All bearings 25-3-8.		
	(lb) - Max Horiz 2=420 (LC 10)		
	Max Uplift All uplift 100 (lb) or less at joint(s) 24, 25, 26, 27, 28, 30, 31, 33, 34, 35, 37, 38, 39, 40, 41, 42, 43 except 2=-203 (LC 6), 44=-191 (LC 10)		
	Max Grav All reactions 250 (lb) or less at joint(s) 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 37, 38, 39, 40, 41, 42, 43, 44 except 2=299 (LC 7)		
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	3-4=-365/329, 4-5=-334/309, 5-6=-300/288, 6-7=-267/267, 7-8=-250/252, 8-9=-240/257, 9-10=-234/253, 10-11=-218/271, 11-12=-201/304, 12-13=-233/341, 13-14=-269/362, 16-17=-266/336, 17-18=-241/302, 18-19=-211/266		
WEBS	14-16=-230/321		

- 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 Corner (3) 1-2-8 to 1-7-0, Exterior (2) 1-7-0 to 12-9-12, Corner (3) 12-9-12 to 18-10-4, Exterior (2) 18-10-4 to 22-0-8, Corner (3) 22-0-8 to 25-1-12 zone; cantilever left and right exposed ; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only.
 - All plates are 2x3 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 30 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 100 lb uplift at joint(s) 24, 33, 34, 35, 37, 38, 39, 40, 41, 42, 43, 31, 28, 27, 26, 25, 30 except (jt=lb) 2=203, 44=190.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 33, 32, 34, 35, 37, 38, 39, 40, 41, 42, 43, 44, 31.
 - 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 72402902	Truss C1	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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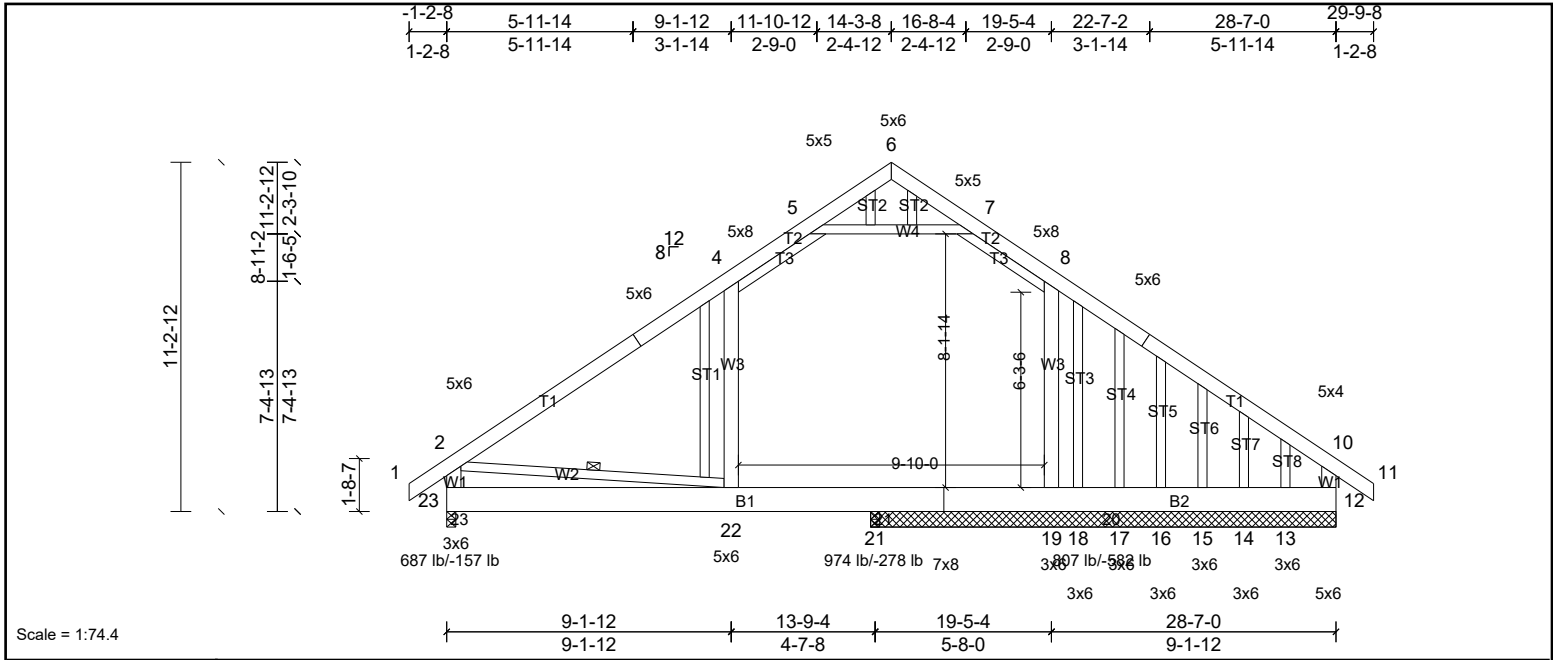


Plate Offsets (X, Y):	[2:0-1-4,0-2-8], [6:0-3-0,Edge], [12:0-3-0,0-0-12]
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Loading	(psf)	Spacing	1-7-3	CSI	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	0.10	22-23	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.11	22-23	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.05	21-22	>999	360	Weight: 311 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x6 SP No.2 *Except* T3:2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x10 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.2 *Except* W4:2x4 SP No.2, W2:2x4 SP No.3	WEBS 1 Row at midpt
OTHERS 2x4 SP No.3	

REACTIONS
All bearings 14-11-8. except 23=0-3-8, 21=0-3-8
(lb) - Max Horiz 23=340 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 14, 15, 16, 17 except 12=-130 (LC 7), 13=-516 (LC 11), 18=-365 (LC 10), 19=-583 (LC 8), 21=-278 (LC 10), 23=-158 (LC 10)
Max Grav All reactions 250 (lb) or less at joint(s) 13, 14, 15, 16, 17 except 12=807 (LC 18), 18=461 (LC 18), 19=457 (LC 7), 21=974 (LC 18), 23=688 (LC 18)

FORCES
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-36=-543/34, 3-36=-425/55, 3-4=-412/76, 4-5=-479/199, 7-8=-497/214, 8-9=-510/153, 9-37=-524/131, 10-37=-641/111, 2-23=-525/196, 10-12=-516/220
BOT CHORD 22-23=-425/691, 21-22=-97/491, 20-21=-97/491, 19-20=-97/491, 18-19=-97/491, 17-18=-97/491, 16-17=-97/491, 16-38=-97/491, 15-38=-97/491, 14-15=-97/491, 13-14=-97/491, 12-13=-97/491
WEBS 8-19=-380/368, 4-22=-288/271, 5-7=-598/336, 2-22=-355/441

- 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) -1-2-8 to 1-9-8, Interior (1) 1-9-8 to 11-3-8, Exterior (2) 11-3-8 to 17-0-3, Interior (1) 17-0-3 to 26-9-8, Exterior (2) 26-9-8 to 29-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only.
 - All plates are 2x3 MT20 unless otherwise indicated.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-7
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 21-22, 19-21
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 15, 14 except (jt=lb) 23=157, 19=582, 12=130, 18=365, 13=515, 21=278.
 - 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.
 - Attic room checked for L/360 deflection.

LOAD CASE(S)	Standard
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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 72402902	Truss C2	Truss Type Truss	Qty 2	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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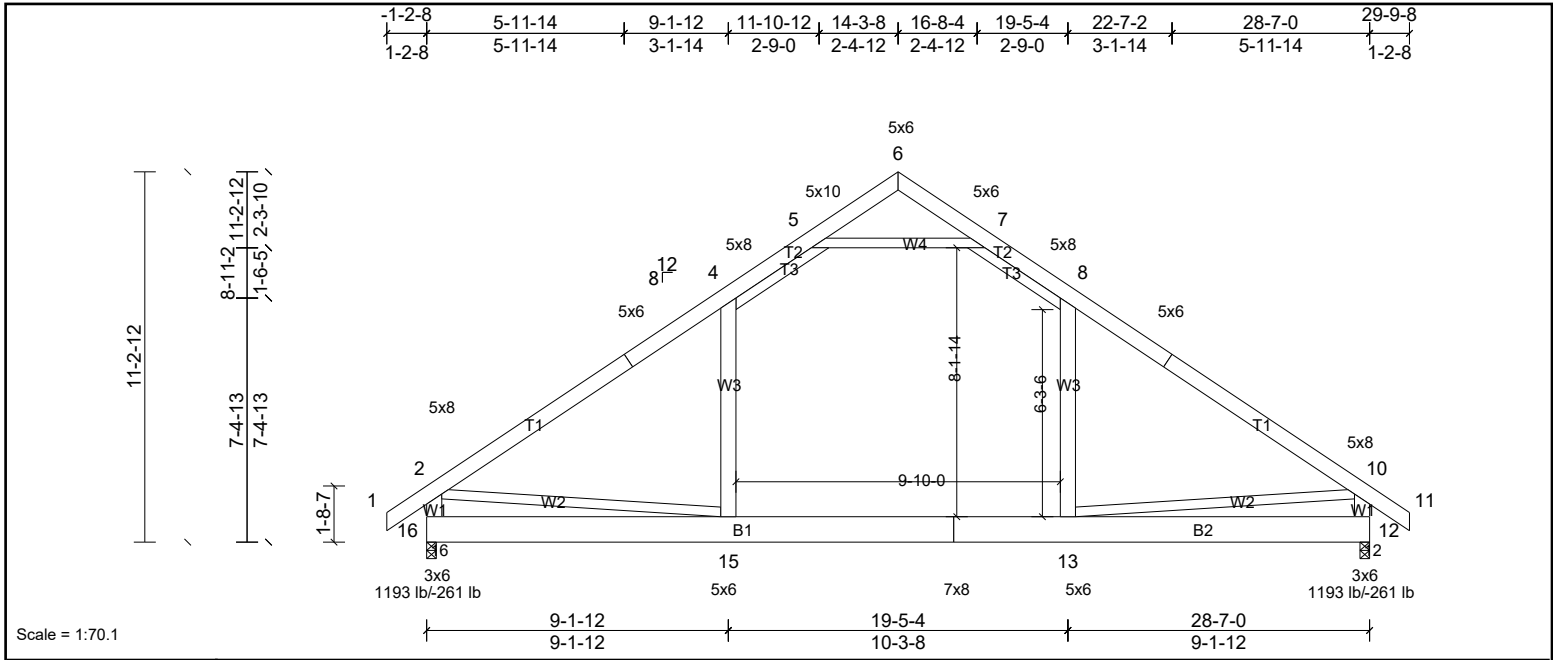


Plate Offsets (X, Y): [2:0-5-0,0-1-0], [6:0-3-0,Edge], [7:0-2-9,0-2-4], [10:0-5-0,0-1-0]

Loading	(psf)	Spacing	1-7-3	CSI	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.18	13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.28	13-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.07	13-15	>999	360	Weight: 278 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x6 SP No.2 *Except* T3:2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x10 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.2 *Except* W4:2x4 SP No.2, W2:2x4 SP No.3	
REACTIONS (lb/size) 12=1010/0-3-8, (min. 0-1-8), 16=1010/0-3-8, (min. 0-1-8)	
Max Horiz 16=340 (LC 9)	
Max Uplift 12=-261 (LC 11), 16=-261 (LC 10)	
Max Grav 12=1193 (LC 19), 16=1193 (LC 18)	
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-17=-1457/252, 3-17=-1327/274, 3-4=-1297/295, 4-5=-1021/328, 5-6=-153/464, 6-7=-153/463, 7-8=-1021/328, 8-9=-1297/295, 9-18=-1327/274, 10-18=-1457/252, 2-16=-1082/324, 10-12=-1083/324	
BOT CHORD 15-16=-476/835, 14-15=-102/1146, 13-14=-102/1146, 12-13=-331/596	
WEBS 8-13=-51/438, 4-15=-52/438, 5-7=-1569/539, 2-15=-163/773, 10-13=-178/786	

- 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) -1-2-8 to 1-9-8, Interior (1) 1-9-8 to 11-3-8, Exterior (2) 11-3-8 to 17-0-3, Interior (1) 17-0-3 to 26-9-8, Exterior (2) 26-9-8 to 29-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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). 4-5, 7-8, 5-7
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-15
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 261 lb uplift at joint 16 and 261 lb uplift at joint 12.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard

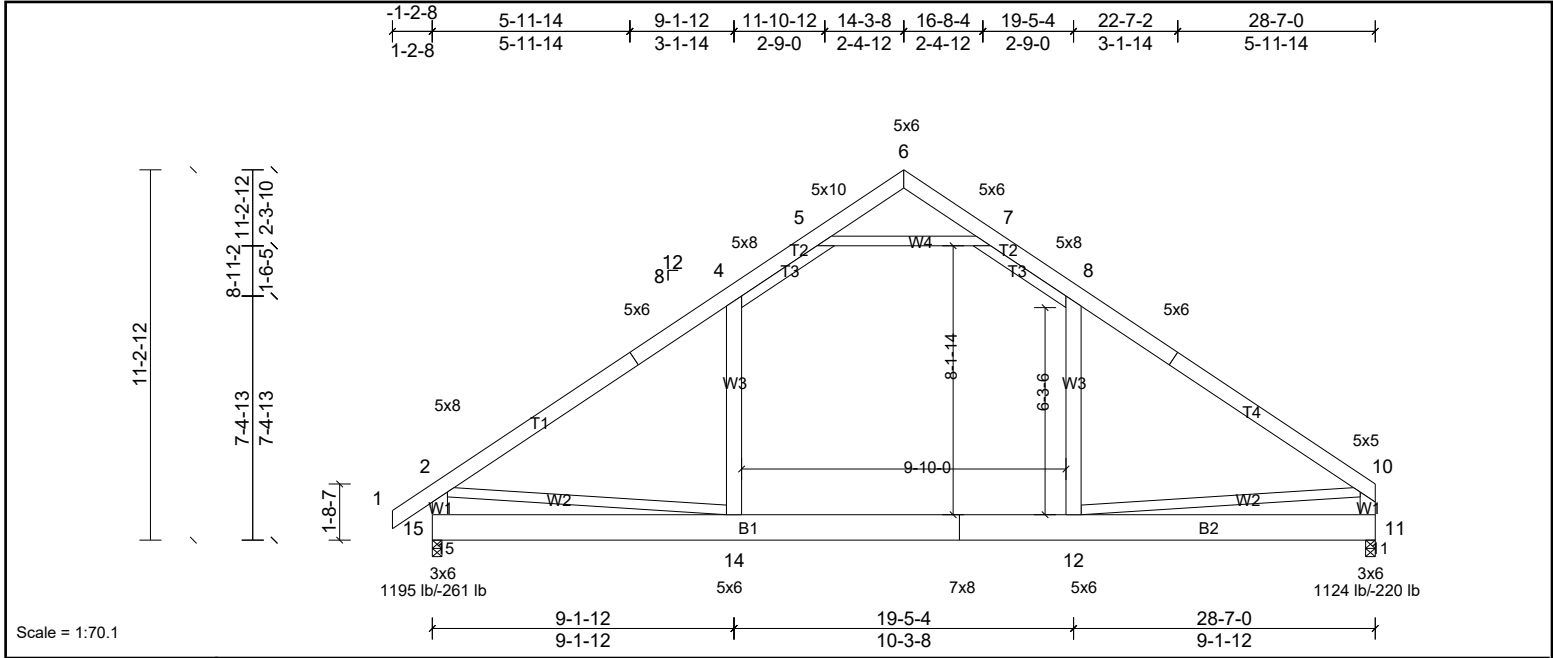
Job 72402902	Truss C3	Truss Type Truss	Qty 3	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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Scale = 1:70.1

Plate Offsets (X, Y):	[2:0-5-0,0-1-0], [6:0-3-0,Edge], [7:0-2-9,0-2-4], [10:0-1-8,0-1-8]
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Loading	(psf)	Spacing		1-7-3	CSI		DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL		1.15	TC	0.75	Vert(LL)	-0.18	12-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL		1.15	BC	0.55	Vert(CT)	-0.27	12-14	>999	180		
BCLL	0.0*	Rep Stress Incr		YES	WB	0.30	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code		IRC2015/TPI2014	Matrix-MSH		Attic	-0.08	12-14	>999	360	Weight: 275 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x6 SP No.1 *Except* T3:2x4 SP No.2, T1,T4:2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-1-5 oc purlins, except end verticals.
BOT CHORD	2x10 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x6 SP No.2 *Except* W4:2x4 SP No.2, W2:2x4 SP No.3		

REACTIONS	(lb/size)	
	11=939/0-3-8, (min. 0-1-8), 15=1011/0-3-8, (min. 0-1-8)	
Max Horiz	15=331 (LC 7)	
Max Uplift	11=-220 (LC 11), 15=-261 (LC 10)	
Max Grav	11=1124 (LC 19), 15=1195 (LC 18)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-16=-1468/256, 3-16=-1337/278, 3-4=-1308/299, 4-5=-1025/331, 5-6=-166/487, 6-7=-170/489, 7-8=-1031/336, 8-9=-1313/290, 9-17=-1322/267, 10-17=-1453/259, 2-15=-1090/331, 10-11=-1041/250
BOT CHORD	14-15=-488/813, 13-14=-122/1140, 12-13=-122/1140, 11-12=-238/433
WEBS	8-12=-58/418, 4-14=-53/445, 5-7=-1612/572, 2-14=-165/794, 10-12=-138/891

- 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) -1-2-8 to 1-9-8, Interior (1) 1-9-8 to 11-3-8, Exterior (2) 11-3-8 to 17-0-3, Interior (1) 17-0-3 to 25-4-4, Exterior (2) 25-4-4 to 28-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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.
 - Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-7
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-14
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 261 lb uplift at joint 15 and 220 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.
 - Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job 72402902	Truss C4	Truss Type Truss	Qty 2	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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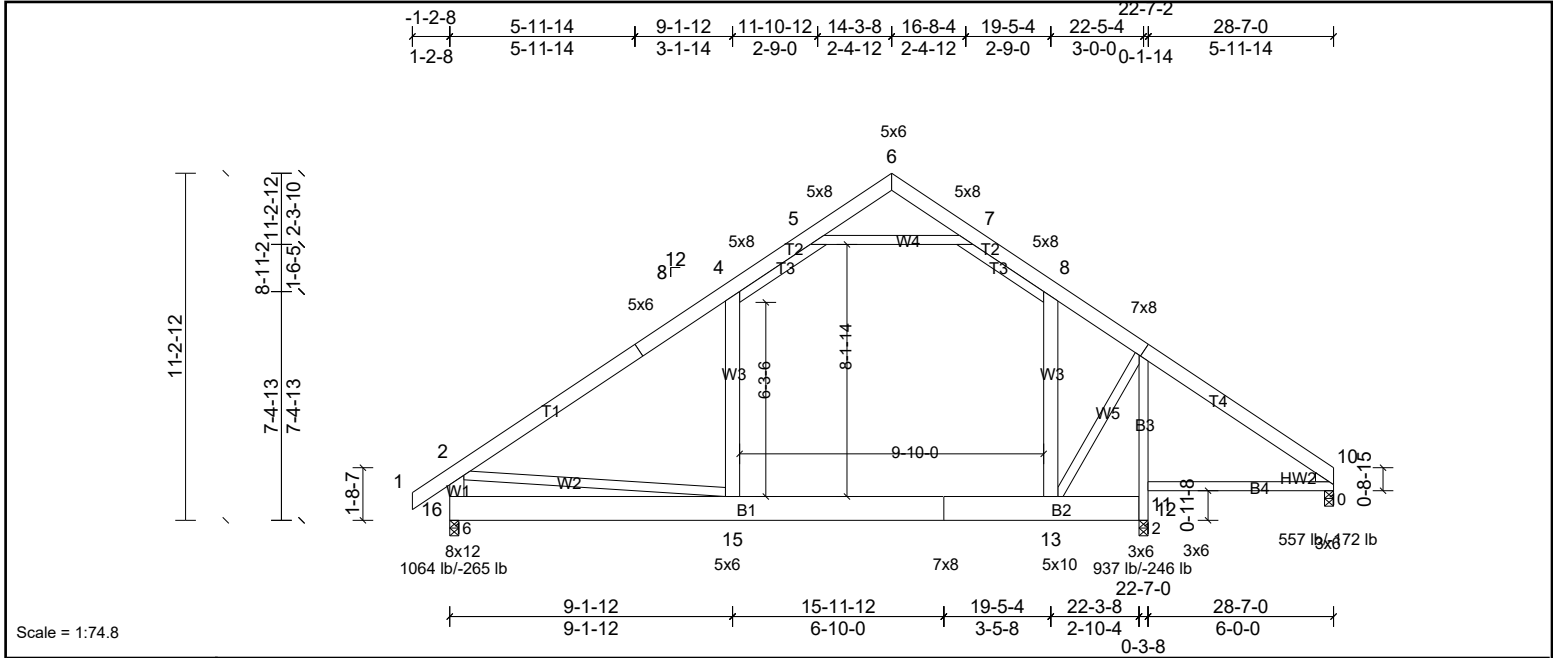


Plate Offsets (X, Y): [6:0-3-0,Edge], [9:0-4-0,0-4-8], [10:Edge,0-0-11], [13:0-7-0,0-2-4], [16:Edge,0-5-8]

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	0.60	Vert(LL)	0.17	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.24	13-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.08	13-15	>999	360	Weight: 261 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x6 SP No.2 *Except* T3:2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x10 SP No.2 *Except* B3:2x4 SP No.3, B4:2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 4-0-3 oc bracing: 11-12.
WEBS	2x6 SP No.2 *Except* W4:2x4 SP No.2, W2,W5:2x4 SP No.3		
WEDGE	Right: 2x4 SP No.2		
REACTIONS	(lb/size) 10=502/0-3-8, (min. 0-1-8), 12=566/0-3-8, (min. 0-1-8), 16=896/0-3-8, (min. 0-1-8)		
	Max Horiz 16=-311 (LC 8)		
	Max Uplift 10=-172 (LC 10), 12=-246 (LC 11), 16=-265 (LC 10)		
	Max Grav 10=557 (LC 18), 12=937 (LC 19), 16=1064 (LC 18)		
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-20=-1039/159, 3-20=-909/181, 3-4=-906/202, 4-5=-796/297, 5-6=-109/293, 6-7=-91/250, 7-8=-839/308, 8-9=-1115/368, 9-21=-701/291, 10-21=-768/274, 2-16=-892/281		
BOT CHORD	15-16=-508/828, 14-15=-148/905, 13-14=-148/905, 12-13=-167/564, 11-12=-1180/238, 9-11=-1135/252, 10-11=-176/603		
WEBS	4-15=-65/276, 8-13=-142/378, 5-7=-1144/489, 2-15=-136/421, 9-13=0/671		

- 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) -1-2-8 to 1-9-8, Interior (1) 1-9-8 to 11-3-8, Exterior (2) 11-3-8 to 17-0-3, Interior (1) 17-0-3 to 25-7-0, Exterior (2) 25-7-0 to 28-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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). 4-5, 7-8, 5-7
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-15
 - Bearing at joint(s) 12 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 265 lb uplift at joint 16, 172 lb uplift at joint 10 and 246 lb uplift at joint 12.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard

Job 72402902	Truss C5	Truss Type Truss	Qty 4	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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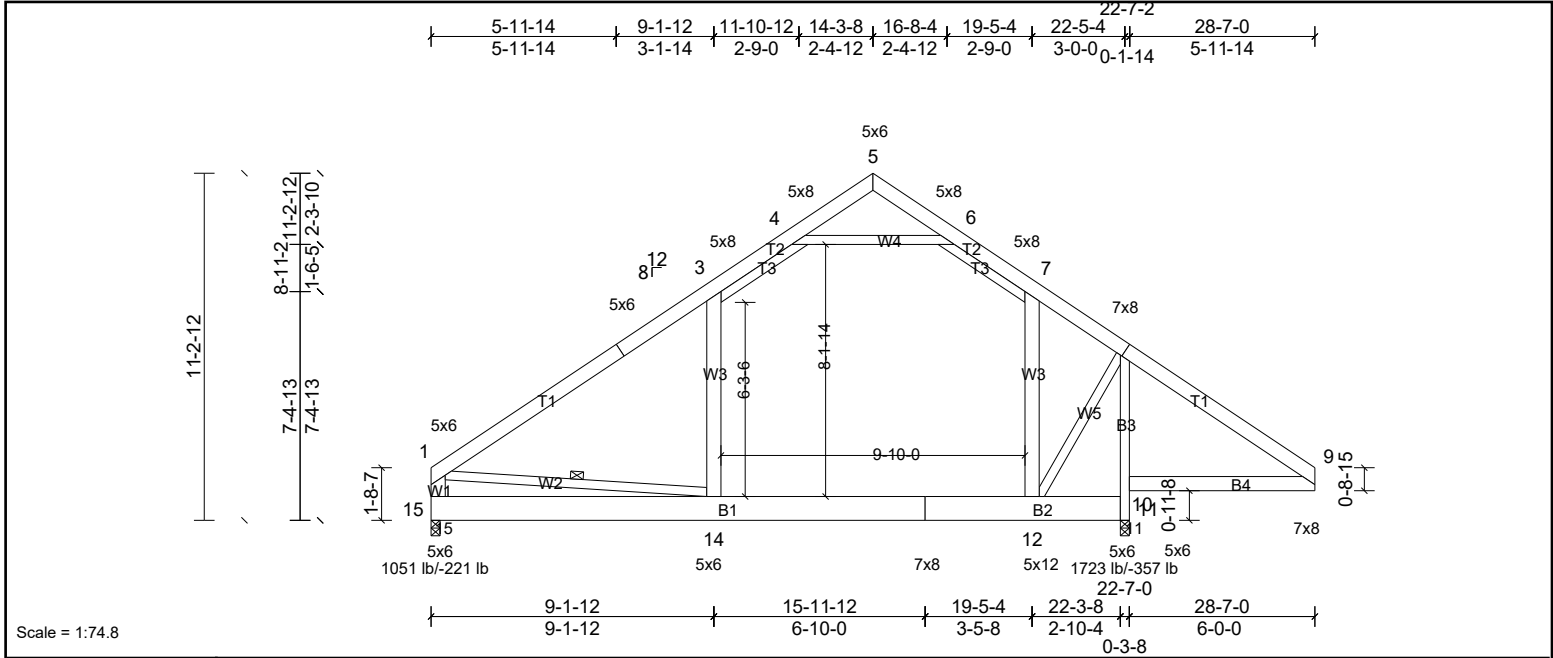


Plate Offsets (X, Y): [1:0-1-8,0-2-8], [5:0-3-0,Edge], [8:0-4-0,0-4-8], [12:0-7-12,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.29	14-15	>932	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.38	14	>698	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.11	12-14	>999	360	Weight: 262 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x6 SP No.2 *Except* T3:2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-11-3 oc purlins, except end verticals.
BOT CHORD	2x10 SP No.2 *Except* B3:2x4 SP No.1, B4:2x6 SP No.1, B2:2x10 SP No.1	BOT CHORD	Rigid ceiling directly applied or 3-9-5 oc bracing.
WEBS	2x6 SP No.2 *Except* W5,W2:2x4 SP No.3, W4:2x4 SP No.2	WEBS	1 Row at midpt
REACTIONS	(lb/size) 11=1513/0-3-8, (min. 0-1-8), 15=858/0-3-8, (min. 0-1-8) Max Horiz 15=-378 (LC 8) Max Uplift 11=-357 (LC 11), 15=-221 (LC 10) Max Grav 11=1723 (LC 2), 15=1051 (LC 18)		1-14
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-19=-1050/146, 2-19=-887/155, 2-3=-884/185, 3-4=-745/282, 4-5=-112/264, 6-7=-803/311, 7-8=-955/325, 8-20=-332/438, 9-20=-346/329, 1-15=-771/171 BOT CHORD 14-15=-494/877, 13-14=-92/825, 12-13=-92/825, 11-12=-328/374, 10-11=-2644/1040, 8-10=-2554/855, 9-10=-312/364 WEBS 3-14=-273/322, 7-12=-283/244, 8-12=-481/2013, 4-6=-980/485, 1-14=-274/406		

- 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) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 11-3-8, Exterior (2) 11-3-8 to 17-0-3, Interior (1) 17-0-3 to 25-7-0, Exterior (2) 25-7-0 to 28-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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). 3-4, 6-7, 4-6
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-14
 - Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 15 and 357 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.
 - Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard

Job 72402902	Truss C6	Truss Type Truss	Qty 1	Ply 2	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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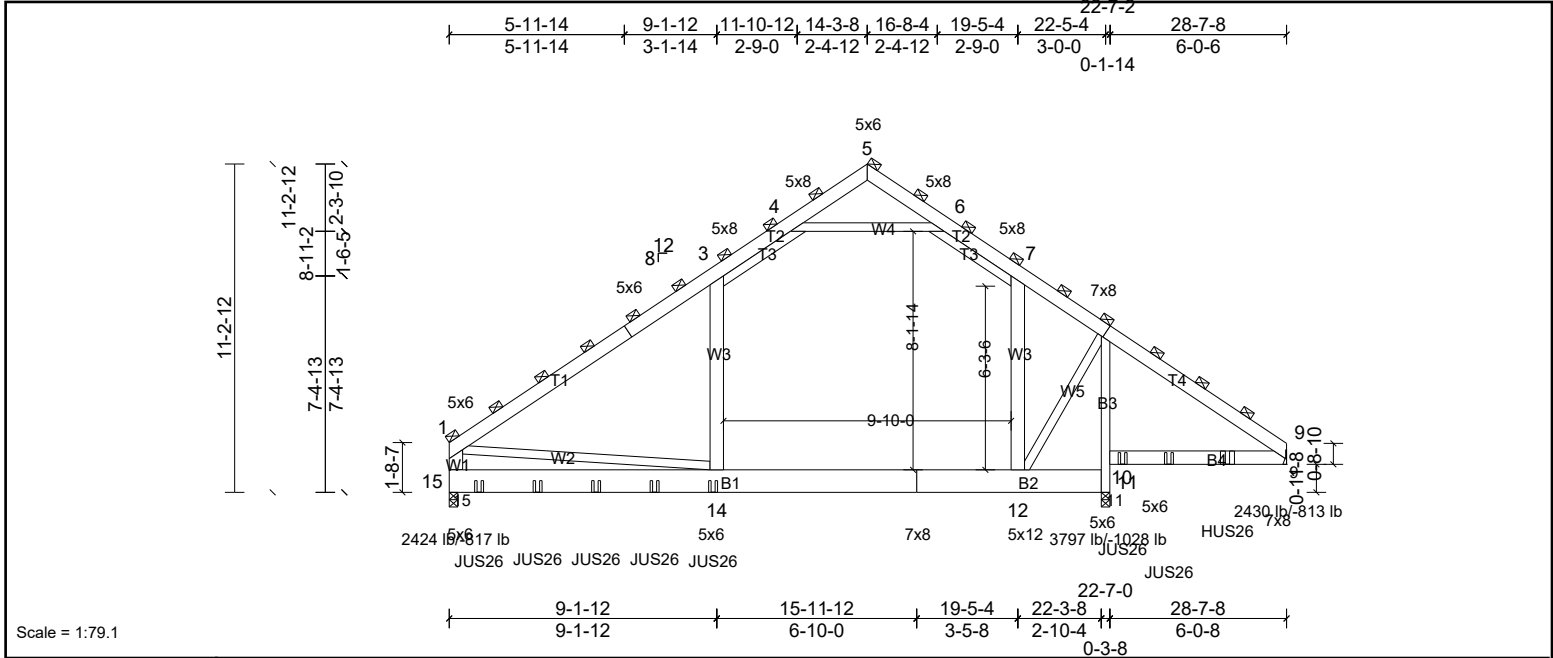


Plate Offsets (X, Y): [1:0-1-8,0-2-8], [5:0-3-0,Edge], [8:0-3-4,0-4-8], [9:Edge,0-1-8], [12:0-8-0,0-2-4], [15:0-3-0,0-1-8]

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	0.79	Vert(LL)	0.26	14-15	>999	240
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.30	14-15	>879	180
BCLL	0.0*	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.05	9	n/a	n/a
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH	Attic	-0.08	12-14	>999	360	Weight: 525 lb FT = 20%

LUMBER		BRACING	
TOP CHORD	2x6 SP No.2 *Except* T3:2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD	2x10 SP No.1 *Except* B3:2x4 SP No.1, B4:2x6 SP No.1, B1:2x10 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 5-1-8 oc bracing: 10-11.
WEBS	2x6 SP No.2 *Except* W4:2x4 SP No.2, W5,W2:2x4 SP No.3		
REACTIONS			
	(lb/size)	9=2430/ Mechanical, (min. 0-1-8), 11=2894/0-3-8, (min. 0-1-8), 15=2424/0-3-8, (min. 0-1-8)	
	Max Horiz	15=-567 (LC 6)	
	Max Uplift	9=-813 (LC 8), 11=-1028 (LC 9), 15=-817 (LC 8)	
	Max Grav	9=2430 (LC 1), 11=3797 (LC 17), 15=2424 (LC 1)	
FORCES			
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	1-2=-2229/483, 2-3=-1984/515, 3-4=-1701/698, 4-5=-330/713, 5-6=-298/637, 6-7=-1777/731, 7-8=-2468/940, 8-9=-1803/792, 1-15=-1712/518		
BOT CHORD	15-19=-922/1551, 19-20=-922/1551, 20-21=-922/1551, 21-22=-922/1551, 14-22=-922/1551, 13-14=-461/1946, 12-13=-461/1946, 11-12=-507/1357, 10-11=-4353/1095, 8-10=-2347/554, 10-23=-571/1571, 23-24=-571/1571, 24-25=-571/1571, 9-25=-571/1571		
WEBS	3-14=-187/638, 7-12=-441/1019, 4-6=-2592/1253, 8-12=-21/1219, 1-14=-116/818		

- 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: 2x10 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-6-0 oc.
Web connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 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.
 - Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-6
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-14
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 813 lb uplift at joint 9, 817 lb uplift at joint 15 and 1028 lb uplift at joint 11.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Use MiTek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 14-0-0 oc max. starting at 1-0-4 from the left end to 24-7-4 to connect truss(es) B8 (1 ply 2x4 SP), B6 (1 ply 2x4 SP), B5 (1 ply 2x4 SP) to front face of bottom chord.

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 72402902	Truss C6	Truss Type Truss	Qty 1	Ply 2	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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- 15) Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent at 26-7-4 from the left end to connect truss(es) B4 (1 ply 2x4 SP) to front face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-90, 3-4=-105, 4-5=-90, 5-6=-90, 6-7=-105, 7-9=-90, 11-15=-30, 10-16=-30, 4-6=-15

Concentrated Loads (lb)

Vert: 14=-206 (F), 19=-209 (F), 20=-206 (F), 21=-206 (F), 22=-206 (F), 23=-974 (F), 24=-966 (F), 25=-1214 (F)

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 72402902	Truss D1	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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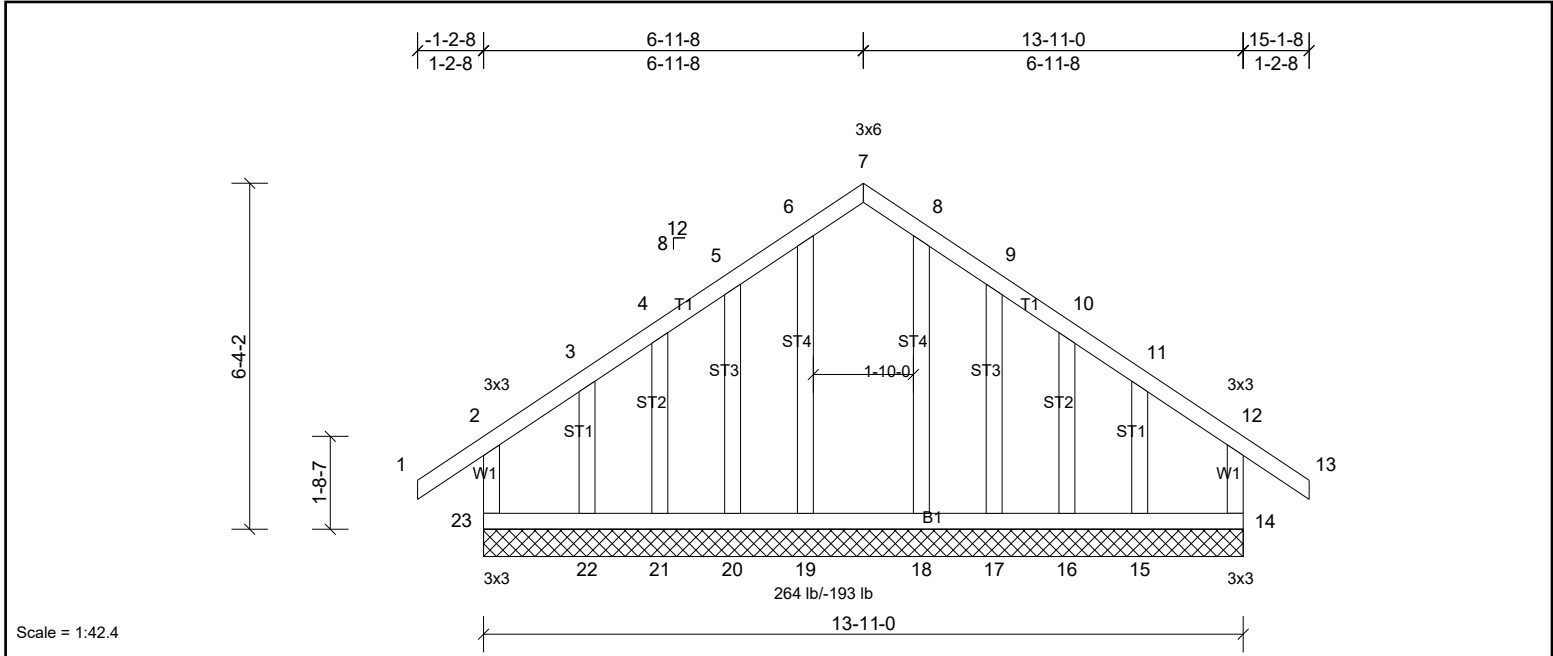


Plate Offsets (X, Y): [7:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 99 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

REACTIONS	
	All bearings 13-11-0.
(lb) - Max Horiz	23=267 (LC 9)
Max Uplift	All uplift 100 (lb) or less at joint(s) 16, 21 except 14=-137 (LC 7), 15=-184 (LC 6), 17=-131 (LC 11), 20=-131 (LC 10), 22=-193 (LC 7), 23=-147 (LC 6)
Max Grav	All reactions 250 (lb) or less at joint(s) 14, 16, 17, 18, 19, 20, 21, 23 except 15=254 (LC 9), 22=264 (LC 8)

FORCES	
TOP CHORD	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 5-6=-208/323, 8-9=-208/323

- 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 Corner (3) -1-2-8 to 1-10-12, Exterior (2) 1-10-12 to 3-11-8, Corner (3) 3-11-8 to 9-11-8, Exterior (2) 9-11-8 to 12-0-4, Corner (3) 12-0-4 to 15-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only.
 - All plates are 1.5x3 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 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) 21, 16 except (it=lb) 23=147, 14=136, 20=130, 22=193, 17=130, 15=184.
 - 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.



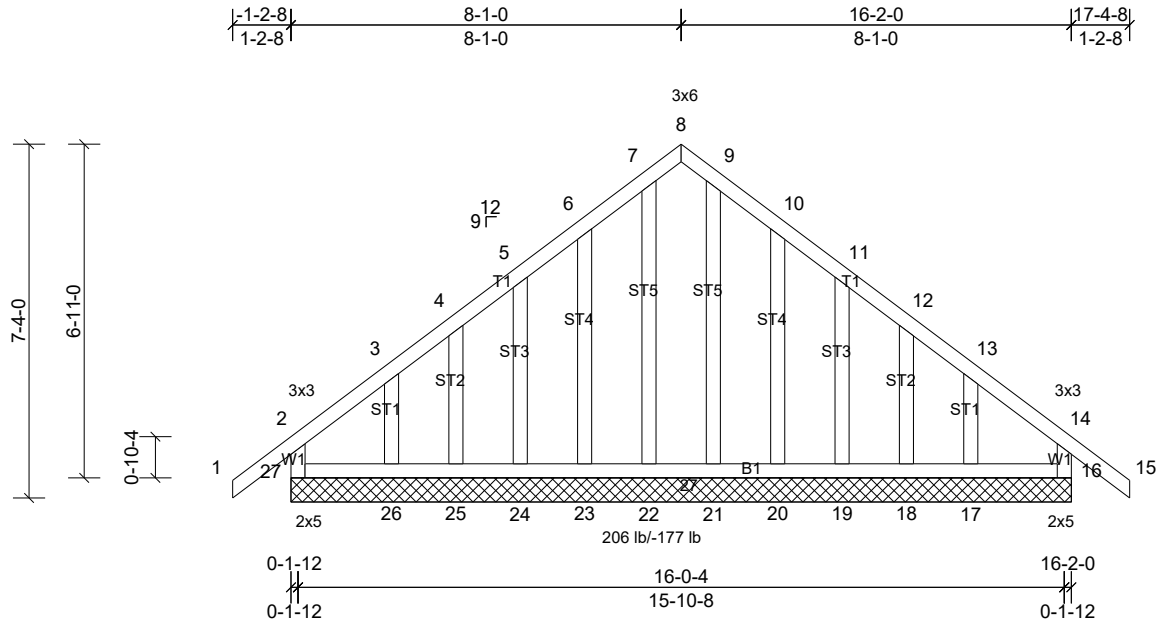
Job 72402902	Truss E1	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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Scale = 1:47.9

Plate Offsets (X, Y): [8:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 118 lb	FT = 20%

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

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

REACTIONS All bearings 16-2-0.
(lb) - Max Horiz 27=-278 (LC 8)
Max Uplift All uplift 100 (lb) or less at joint(s) 16, 18, 19, 24, 25, 27 except 17=-169 (LC 11), 20=-111 (LC 11), 23=-109 (LC 10), 26=-178 (LC 10)
Max Grav All reactions 250 (lb) or less at joint(s) 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 6-7=-239/261, 9-10=-239/261

- 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 Corner (3) -1-2-8 to 2-1-0, Exterior (2) 2-1-0 to 5-1-0, Corner (3) 5-1-0 to 11-1-0, Exterior (2) 11-1-0 to 14-1-0, Corner (3) 14-1-0 to 17-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only.
 - All plates are 1.5x3 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 27, 16 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 100 lb uplift at joint(s) 27, 16, 24, 25, 19, 18 except (jt=lb) 23=108, 26=177, 20=111, 17=168.
 - 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 72402902	Truss E2	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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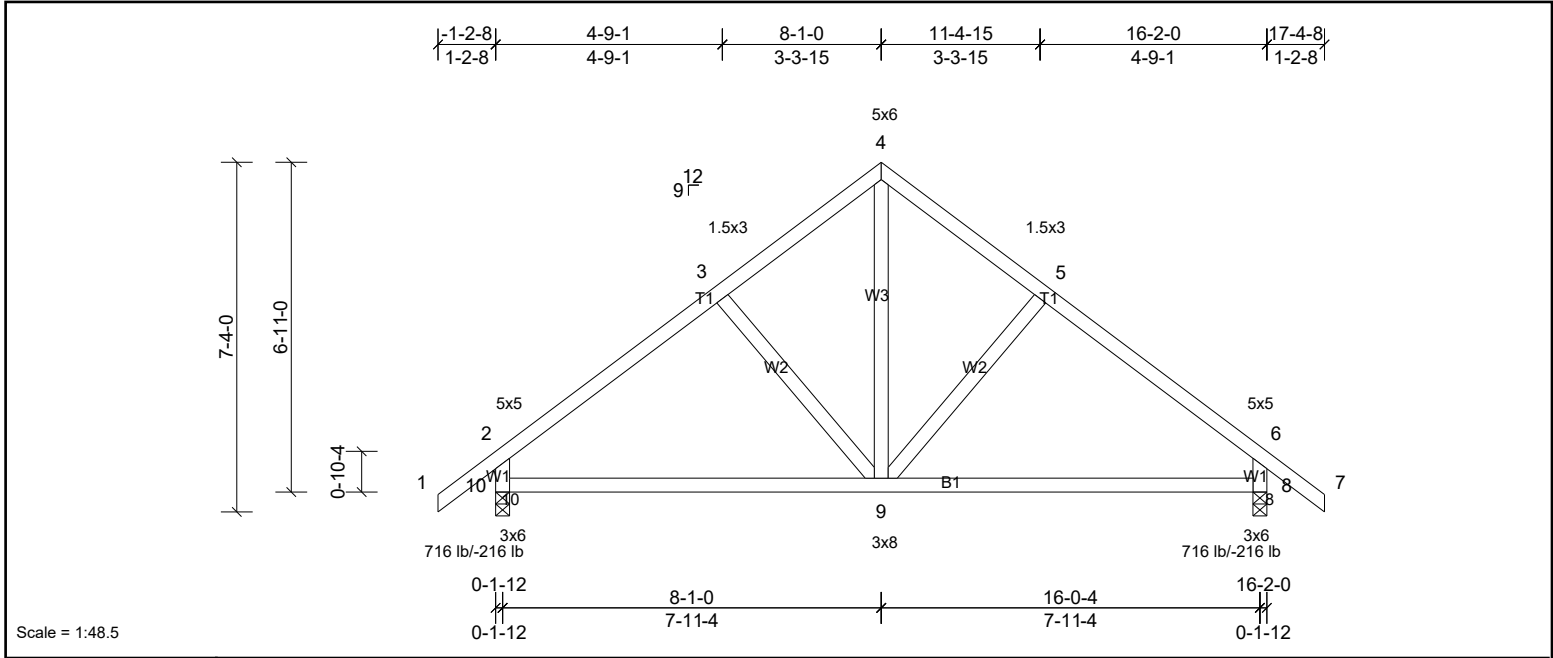


Plate Offsets (X, Y): [2:0-2-8,0-1-12], [6:0-2-8,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.08	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.16	8-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 84 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS	(lb/size)	8=716/0-3-8, (min. 0-1-8), 10=716/0-3-8, (min. 0-1-8)
	Max Horiz	10=-278 (LC 8)
	Max Uplift	8=-216 (LC 11), 10=-216 (LC 10)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-11=-738/229, 3-11=-708/259, 3-12=-667/249, 4-12=-644/271, 4-13=-644/271, 5-13=-667/249, 5-14=-708/259, 6-14=-738/229, 2-10=-633/327, 6-8=-633/327
BOT CHORD	9-10=-162/593, 8-9=-67/492
WEBS	4-9=-189/578, 3-9=-272/259, 5-9=-272/260

- 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) -1-2-8 to 1-9-8, Interior (1) 1-9-8 to 5-1-0, Exterior (2) 5-1-0 to 11-1-0, Interior (1) 11-1-0 to 14-4-8, Exterior (2) 14-4-8 to 17-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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) 10, 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 216 lb uplift at joint 10 and 216 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

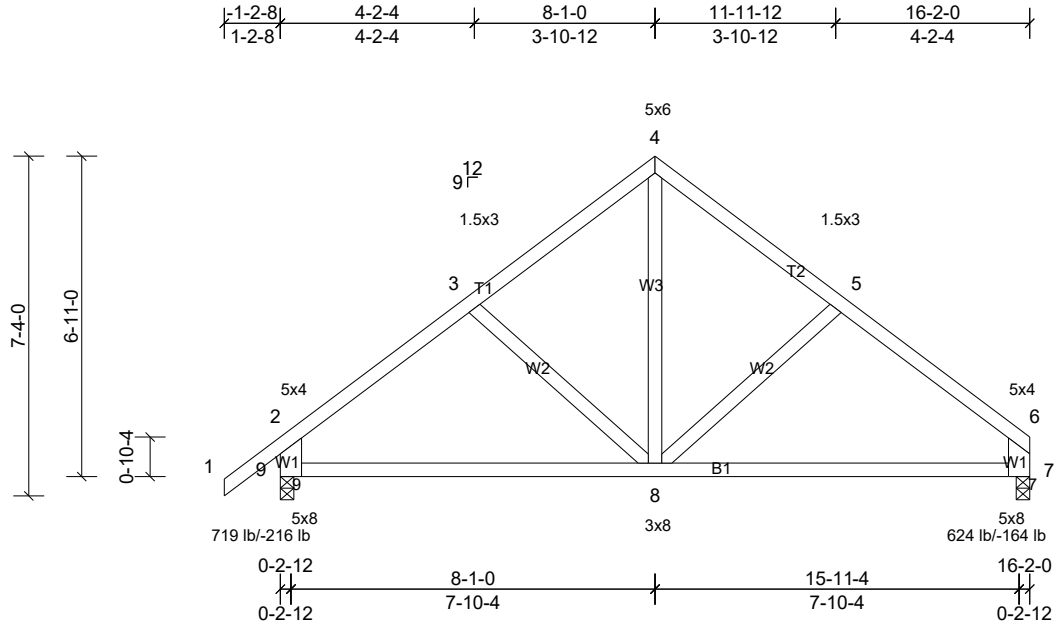
Job 72402902	Truss E3	Truss Type Truss	Qty 3	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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Scale = 1:49.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.08	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.16	8-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 84 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-9-15 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except* W1:2x6 SP No.2		
REACTIONS	(lb/size)	7=624/0-3-8, (min. 0-1-8), 9=719/0-3-8, (min. 0-1-8)	
	Max Horiz	9=252 (LC 7)	
	Max Uplift	7=-164 (LC 11), 9=-216 (LC 10)	
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-10=-733/243, 3-10=-692/268, 3-11=-638/239, 4-11=-615/261, 4-12=-614/263, 5-12=-637/237, 5-13=-691/275, 6-13=-732/250, 2-9=-633/333, 6-7=-570/235		
BOT CHORD	8-9=-219/569, 7-8=-133/498		
WEBS	4-8=-143/480, 5-8=-250/256		

- 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) -1-2-8 to 1-9-8, Interior (1) 1-9-8 to 5-1-0, Exterior (2) 5-1-0 to 11-1-0, Interior (1) 11-1-0 to 12-11-4, Exterior (2) 12-11-4 to 15-11-4 zone; cantilever left and right exposed; end vertical left 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) 9, 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 216 lb uplift at joint 9 and 164 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.

LOAD CASE(S) Standard



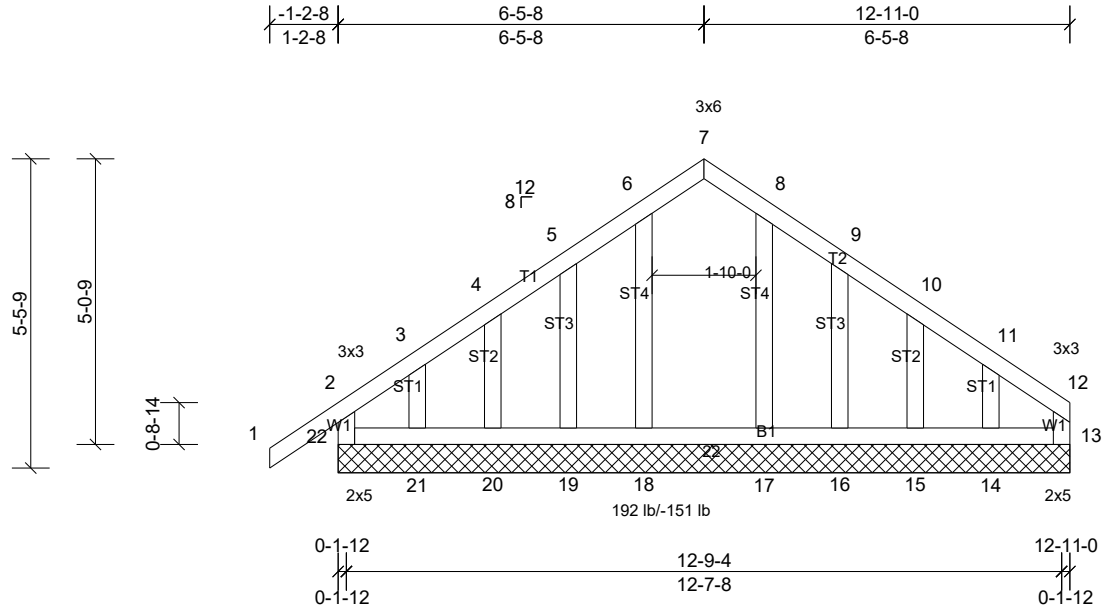
Job 72402902	Truss G1	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Thu Feb 01 11:56:58

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Scale = 1:40.8

Plate Offsets (X, Y): [7:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	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	0.04	Horz(CT)	0.00	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 75 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 12-11-0.
(lb) - Max Horiz 22=196 (LC 7)
Max Uplift All uplift 100 (lb) or less at joint(s) 13, 15, 18, 20, 22 except 14=-152 (LC 11), 16=-106 (LC 11), 19=-101 (LC 10), 21=-125 (LC 10)
Max Grav All reactions 250 (lb) or less at joint(s) 13, 14, 15, 16, 17, 18, 19, 20, 21, 22

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 Corner (3) -1-2-8 to 1-9-8, Exterior (2) 1-9-8 to 3-5-8, Corner (3) 3-5-8 to 9-5-8, Exterior (2) 9-5-8 to 9-9-4, Corner (3) 9-9-4 to 12-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only.
 - All plates are 1.5x3 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 22, 13 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 100 lb uplift at joint(s) 22, 13, 18, 20, 15 except (it=lb) 19=101, 21=124, 16=106, 14=151.
 - 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.



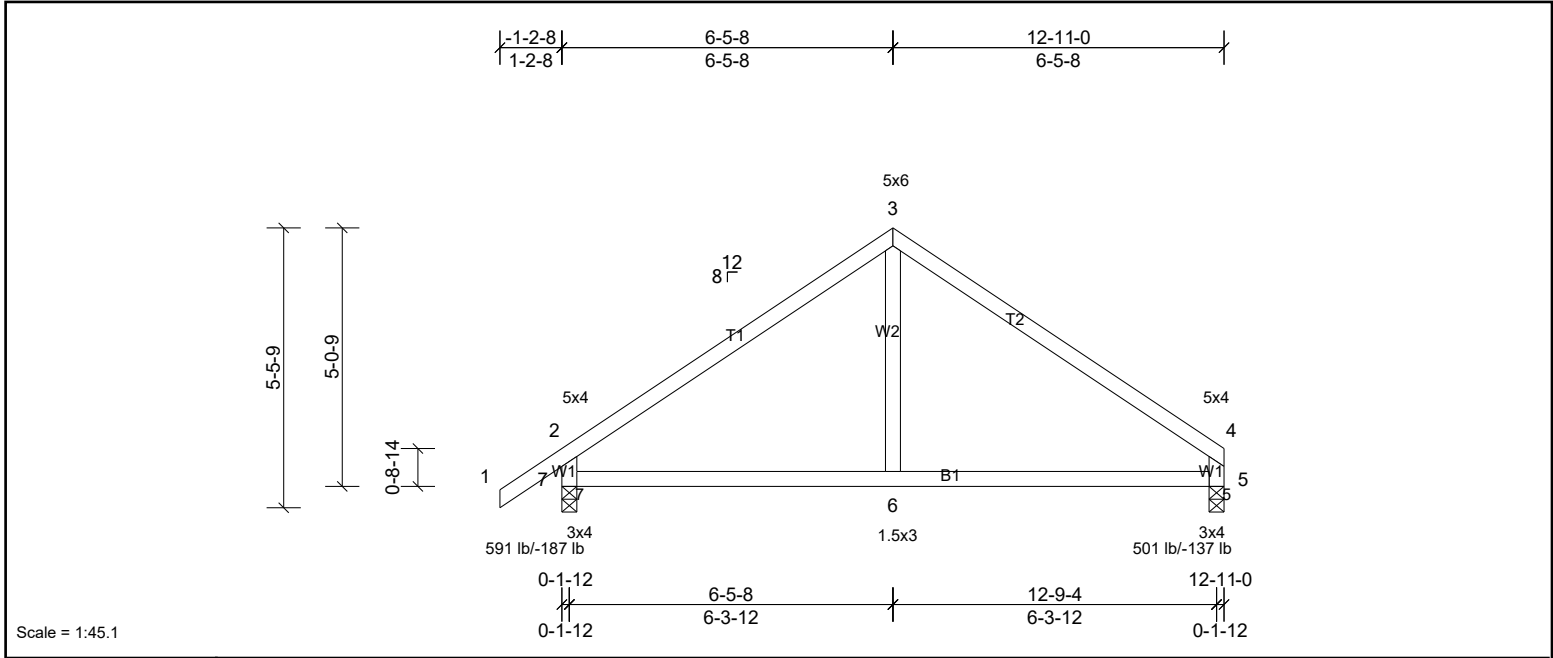
Job 72402902	Truss G2	Truss Type Truss	Qty 2	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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Scale = 1:45.1

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.04	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.07	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 52 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS	(lb/size)	5=501/0-3-8, (min. 0-1-8), 7=591/0-3-8, (min. 0-1-8)
	Max Horiz	7=196 (LC 7)
	Max Uplift	5=-137 (LC 11), 7=-187 (LC 10)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-8=-560/182, 8-9=-518/192, 3-9=-517/213, 3-10=-514/204, 10-11=-516/182, 4-11=-554/182, 2-7=-534/324, 4-5=-485/226
BOT CHORD	6-7=-54/392, 5-6=-54/392
WEBS	3-6=0/274

- 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) -1-2-8 to 1-9-8, Interior (1) 1-9-8 to 3-5-8, Exterior (2) 3-5-8 to 9-5-8, Interior (1) 9-5-8 to 9-9-4, Exterior (2) 9-9-4 to 12-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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) 7, 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 187 lb uplift at joint 7 and 137 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

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.



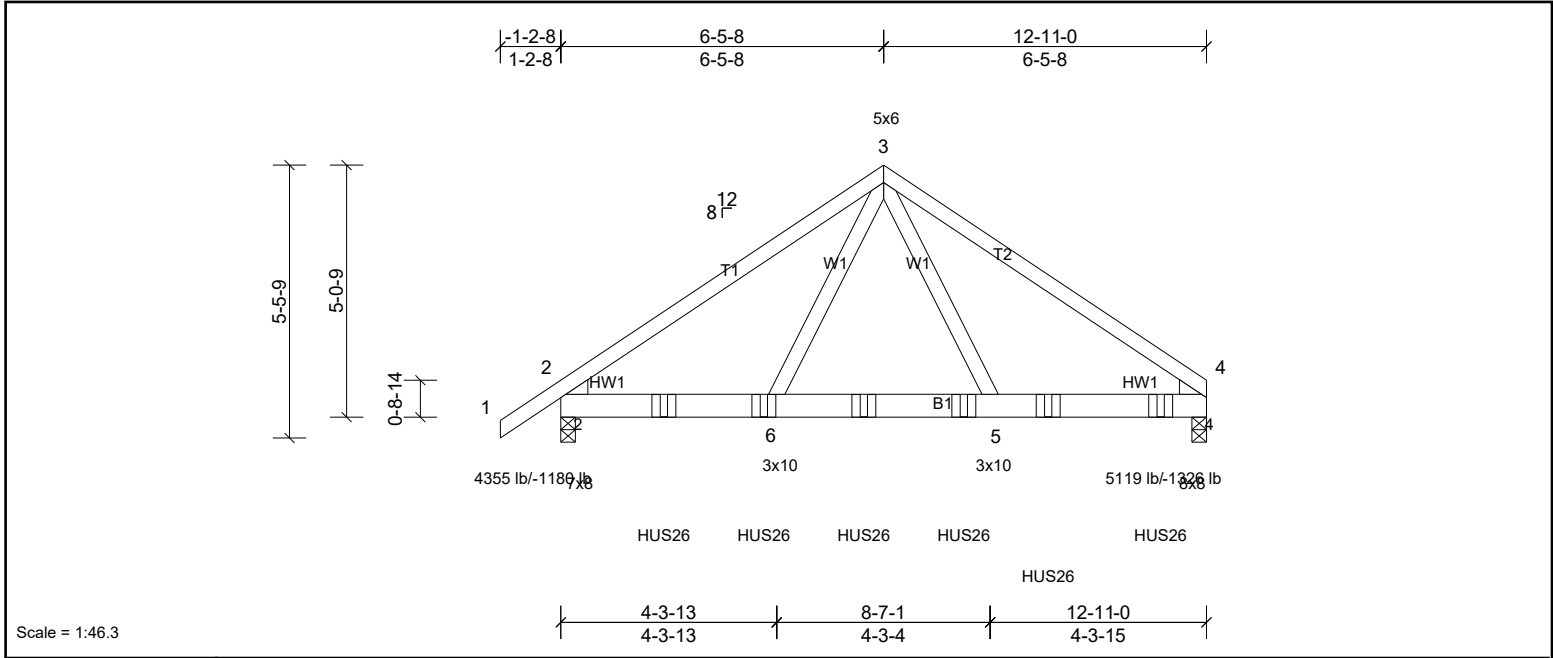
Job 72402902	Truss G3	Truss Type Truss	Qty 1	Ply 2	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	0.07	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.14	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 143 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-8-0 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
WEDGE	Left: 2x4 SP No.2 Right: 2x4 SP No.2		
REACTIONS	(lb/size) 2=4001/0-3-8, (min. 0-2-9), 4=4577/0-3-8, (min. 0-3-0) Max Horiz 2=170 (LC 7) Max Uplift 2=-1180 (LC 8), 4=-1326 (LC 9) Max Grav 2=4355 (LC 15), 4=5119 (LC 16)		
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-3=-5760/1541, 3-4=-5979/1588		
BOT CHORD	2-13=-1230/4789, 6-13=-1230/4789, 6-14=-852/3368, 14-15=-852/3368, 5-15=-852/3368, 5-16=-1220/4920, 16-17=-1220/4920, 4-17=-1220/4920		
WEBS	3-5=-952/3680, 3-6=-865/3252		

- 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.
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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1180 lb uplift at joint 2 and 1326 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 MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-3-0 oc max. starting at 2-0-12 from the left end to 12-0-0 to connect truss(es) B2 (1 ply 2x4 SP), B3 (1 ply 2x6 SP) 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: 1-3=-60, 3-4=-60, 7-10=-20
Concentrated Loads (lb)
Vert: 6=-1245 (B), 13=-1245 (B), 14=-1245 (B), 15=-1245 (B), 16=-1245 (B), 17=-1246 (B)

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.



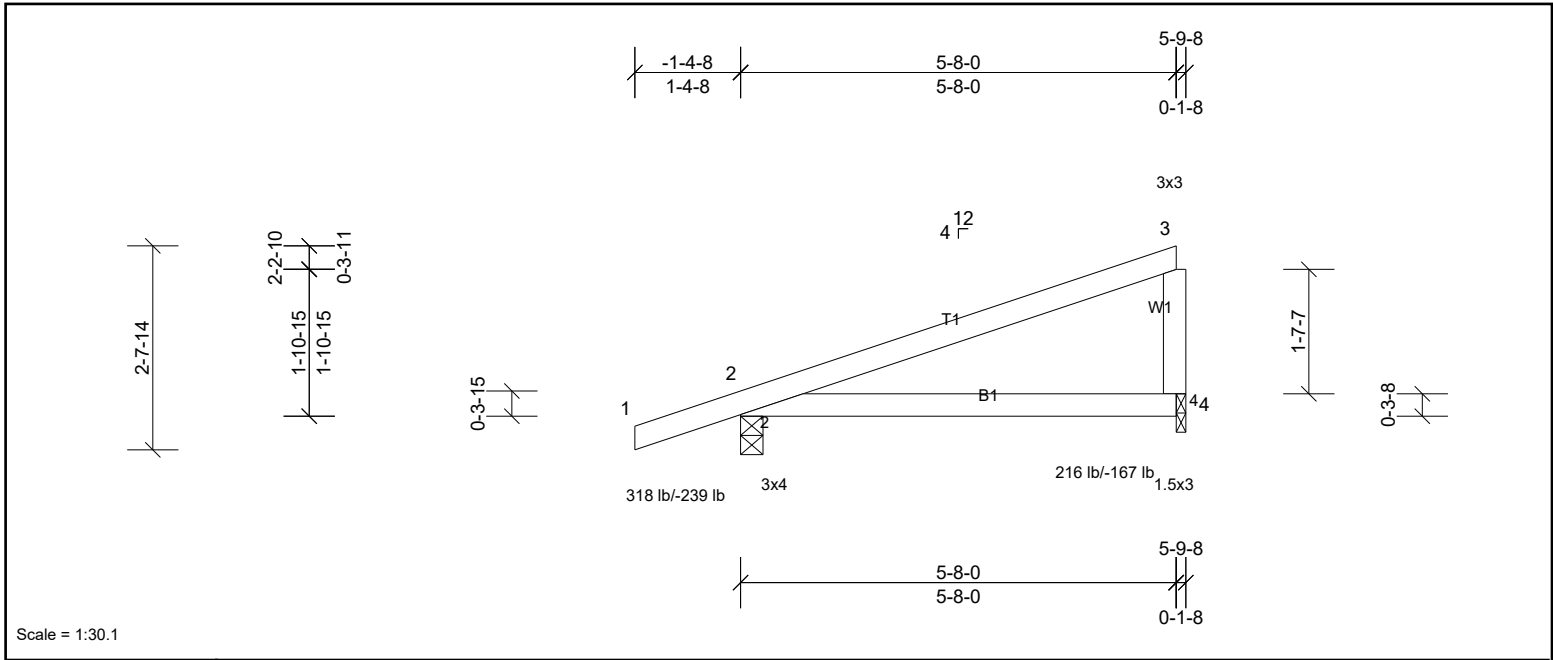
Job 72402902	Truss P1	Truss Type Truss	Qty 14	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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Scale = 1:30.1

Plate Offsets (X, Y):	[3:0-0-14,0-1-8]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	0.15	4-7	>452	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	0.12	4-7	>589	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 22 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-9-8 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS	(lb/size)	2=318/0-3-8, (min. 0-1-8), 4=216/0-1-8, (min. 0-1-8)
	Max Horiz	2=137 (LC 6)
	Max Uplift	2=-239 (LC 6), 4=-167 (LC 6)

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

- NOTES**
- 1) 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) -1-4-8 to 1-7-8, Interior (1) 1-7-8 to 2-7-12, Exterior (2) 2-7-12 to 5-7-12 zone; cantilever left and right exposed; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * 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.
 - 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 239 lb uplift at joint 2 and 167 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

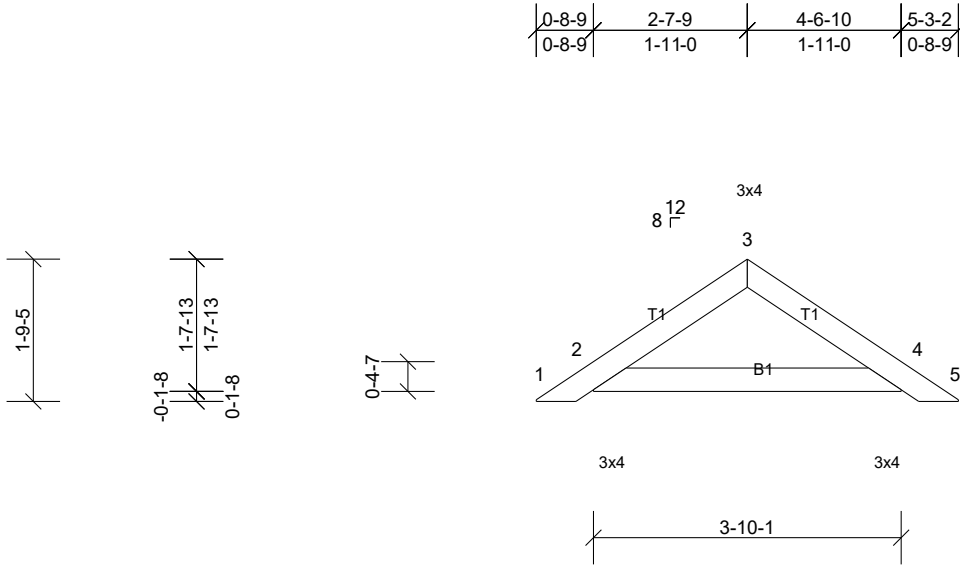
Job 72402902	Truss PB1	Truss Type Truss	Qty 16	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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Scale = 1:28.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 15 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-3-14 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS All bearings 3-10-1.

(lb) - Max Horiz	2--56 (LC 8), 6--56 (LC 8)
Max Uplift	All uplift 100 (lb) or less at joint(s) 2, 4, 6, 10
Max Grav	All reactions 250 (lb) or less at joint(s) 2, 4, 6, 10

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 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, 4, 2, 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.
 - See standard piggyback truss connection detail for connection to base truss.

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.



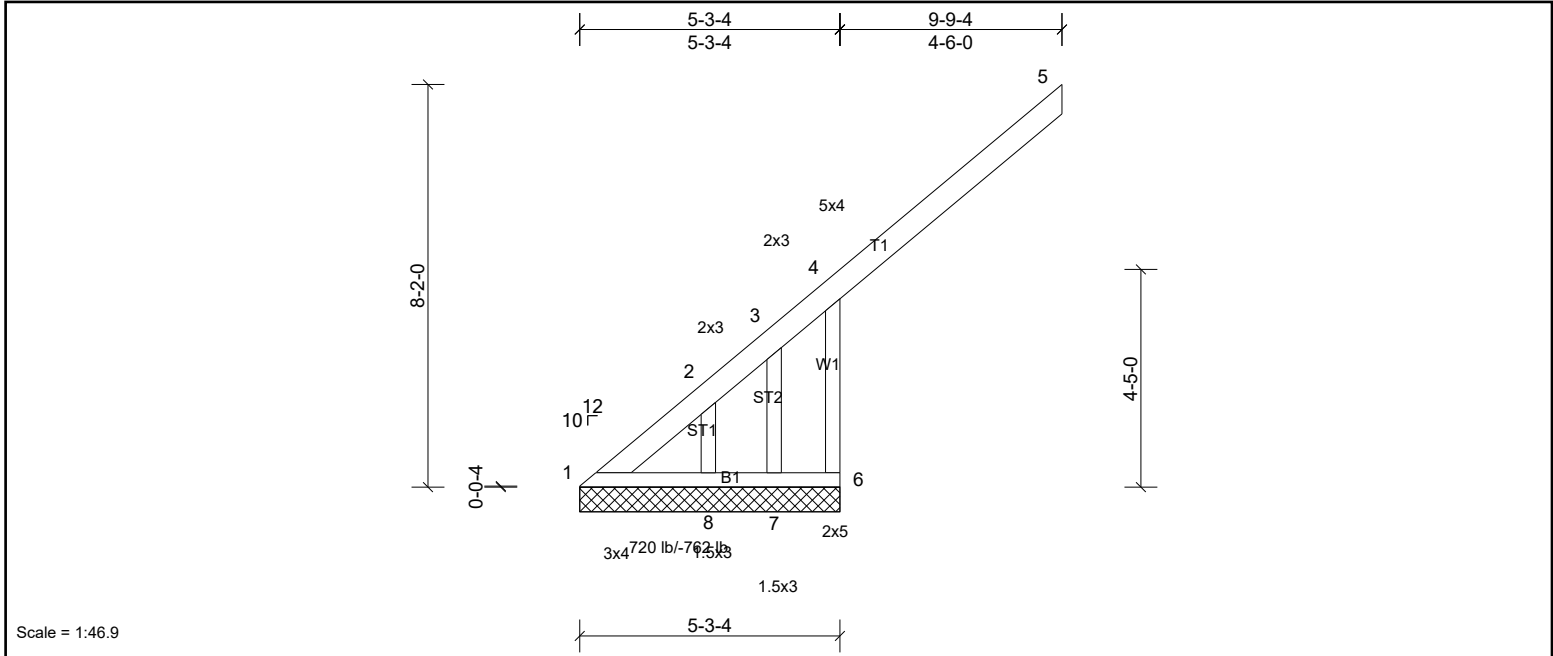
Job 72402902	Truss V1	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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Scale = 1:46.9

Plate Offsets (X, Y): [4:0-2-0,0-1-12], [6:0-3-0,0-1-0]

Loading	(psf)	Spacing	1-7-3	CSI	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 48 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS All bearings 5-3-4.
(lb) - Max Horiz 1=321 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 8 except 6=762 (LC 7), 7=329 (LC 17)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 8 except 6=721 (LC 17), 7=412 (LC 7)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-519/128, 2-11=-503/88, 3-11=-501/98, 3-4=-995/348, 4-6=-717/1473
WEBS 3-7=-783/346

- NOTES**
- 1) 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) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 5-6-11, Exterior (2) 5-6-11 to 9-9-9 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Gable studs spaced at 1-4-0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8 except (jt=lb) 6=762, 7=329.
 - 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

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.



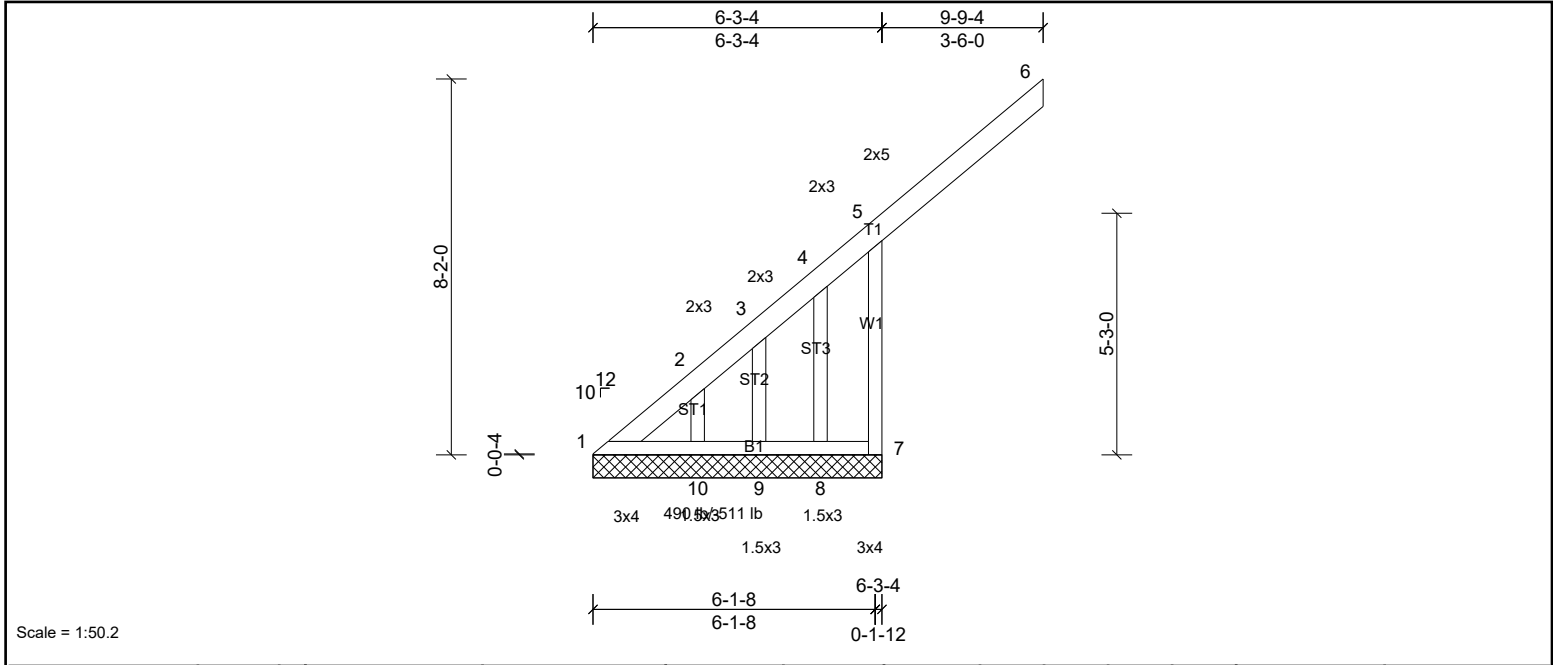
Job 72402902	Truss V1A	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Thu Feb 01 11:57:00

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Scale = 1:50.2

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	0.55	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 55 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6'-0'-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6'-0'-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

REACTIONS	
All bearings 6-3-4.	
(lb) - Max Horiz	1=326 (LC 10)
Max Uplift	All uplift 100 (lb) or less at joint(s) 1, 9, 10 except 7=512 (LC 7), 8=133 (LC 17)
Max Grav	All reactions 250 (lb) or less at joint(s) 1, 8, 9, 10 except 7=491 (LC 17)

FORCES	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-491/134, 2-13=-426/83, 3-13=-421/94, 3-4=-408/89, 4-14=-666/207, 5-14=-660/223, 5-7=-487/982
WEBS	4-8=-417/161

- NOTES**
- 1) 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) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 5-6-11, Exterior (2) 5-6-11 to 9-9-9 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Gable studs spaced at 1'-4'-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'-0'-0 tall by 2'-0'-0 wide will fit between the bottom chord and any other members.
 - 7) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 10 except (jt=lb) 7=511, 8=132.
 - 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.

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.



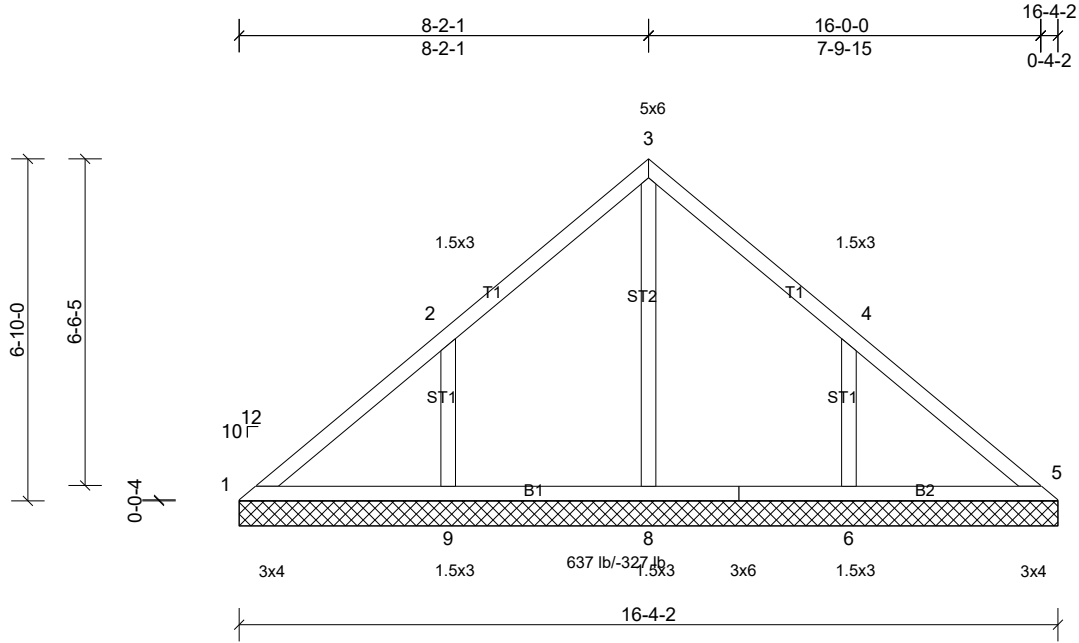
Job 72402902	Truss V2	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Thu Feb 01 11:57:00

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Scale = 1:46.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.35	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 73 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 16-4-2.
(lb) - Max Horiz 1=233 (LC 7)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 14 except 6=-320 (LC 11), 9=-328 (LC 10)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5, 14 except 6=481 (LC 18), 8=638 (LC 17), 9=481 (LC 17)

FORCES
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-180/300, 2-15=-157/369, 3-16=-25/300, 3-17=-25/282, 4-21=-43/260
WEBS 3-8=-441/0, 2-9=-407/349, 4-6=-406/347

- 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) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 5-2-6, Exterior (2) 5-2-6 to 11-2-6, Interior (1) 11-2-6 to 12-11-15, Exterior (2) 12-11-15 to 15-11-15 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) 1, 5, 5 except (jt=lb) 9=327, 6=320.
 - 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.



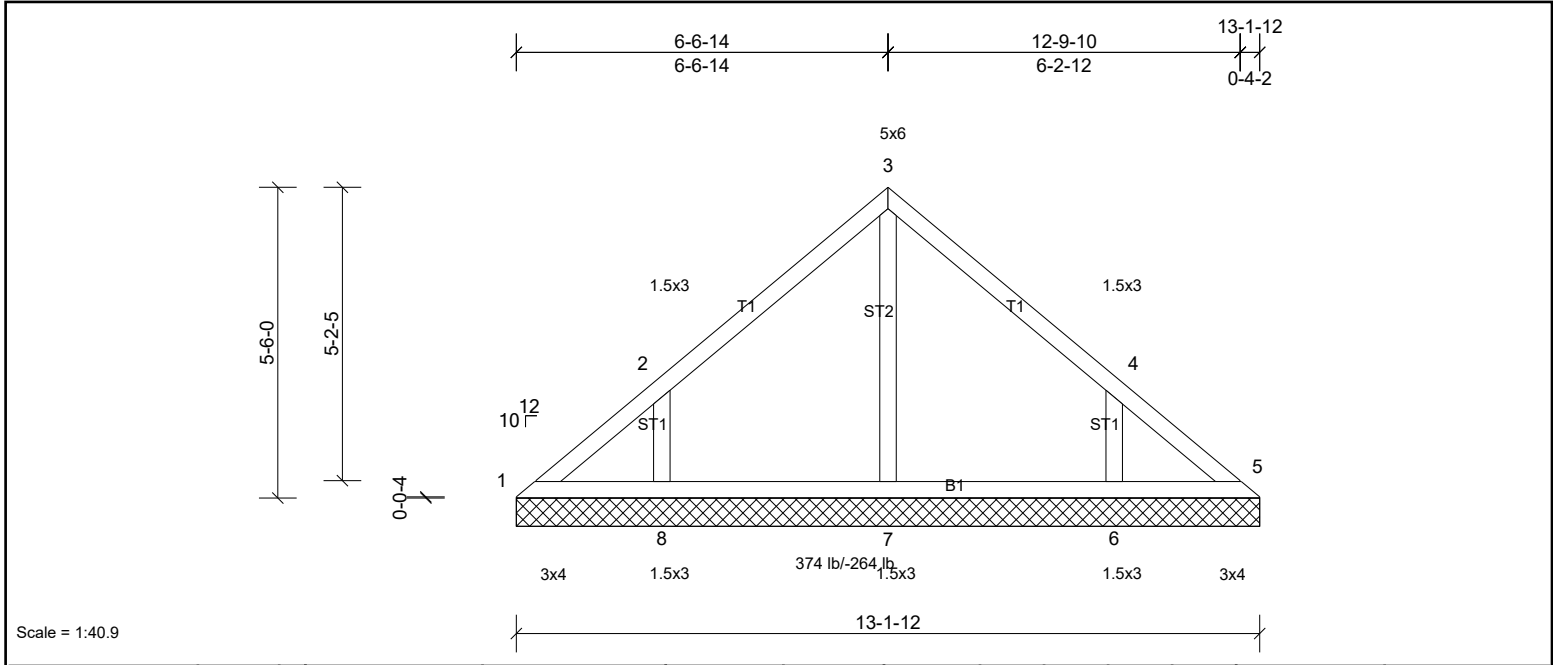
Job 72402902	Truss V3	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 56 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3		

REACTIONS	
All bearings	13-1-12.
(lb) - Max Horiz	1=187 (LC 9)
Max Uplift	All uplift 100 (lb) or less at joint(s) 1, 5 except 6=-260 (LC 11), 8=-265 (LC 10)
Max Grav	All reactions 250 (lb) or less at joint(s) 1, 5 except 6=370 (LC 18), 7=263 (LC 17), 8=375 (LC 17)

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

- WEBS**
2-8=-361/311, 4-6=-361/309
- NOTES**
- 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) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 3-7-3, Exterior (2) 3-7-3 to 9-7-3, Interior (1) 9-7-3 to 10-2-1, Exterior (2) 10-2-1 to 13-2-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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 except (jt=lb) 8=264, 6=259.
 - 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.



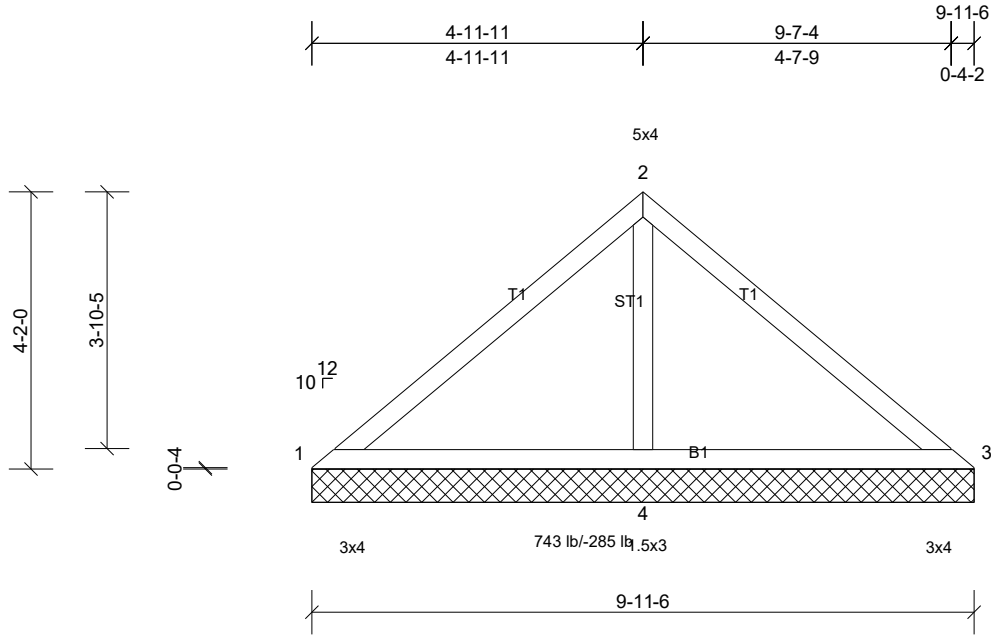
Job 72402902	Truss V4	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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Scale = 1:34.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 38 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 9-11-6 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS	(lb/size)	1=27/9-11-6, (min. 0-1-8), 3=27/9-11-6, (min. 0-1-8), 4=743/9-11-6, (min. 0-1-8)
Max Horiz	1=-140 (LC 6)	
Max Uplift	1=-31 (LC 22), 3=-31 (LC 21), 4=-285 (LC 10)	
Max Grav	1=69 (LC 21), 3=69 (LC 22), 4=743 (LC 1)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-171/332, 2-3=-171/332
BOT CHORD	1-4=-330/244, 3-4=-330/244
WEBS	2-4=-676/384

- 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
 - 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 31 lb uplift at joint 1, 31 lb uplift at joint 3 and 285 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

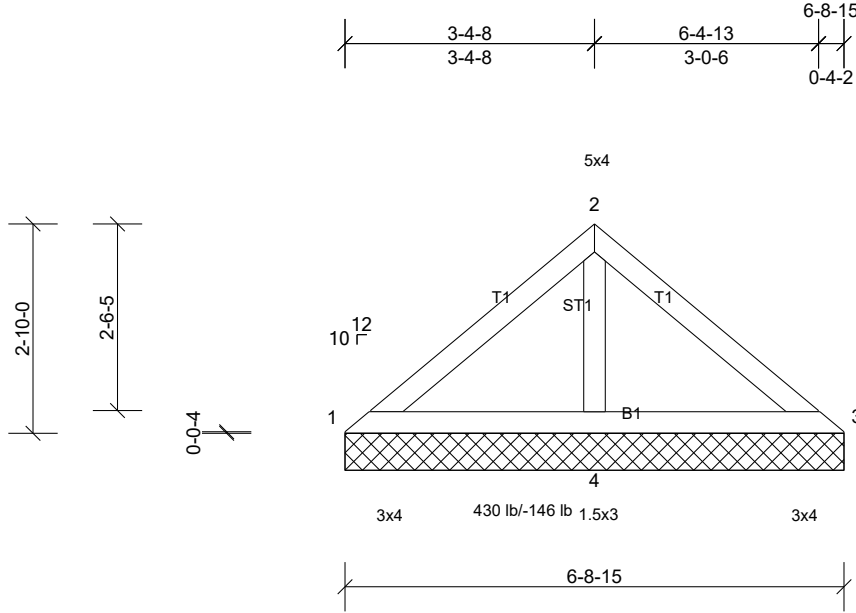
Job 72402902	Truss V5	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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Scale = 1:31.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	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	0.07	Horiz(TL)	0.00	3	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 6-8-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=55/6-8-15, (min. 0-1-8), 3=55/6-8-15, (min. 0-1-8), 4=430/6-8-15, (min. 0-1-8)
Max Horiz 1=93 (LC 7)
Max Uplift 3=-15 (LC 11), 4=-146 (LC 10)
Max Grav 1=74 (LC 21), 3=74 (LC 22), 4=430 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-346/195

- 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 3 and 146 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.



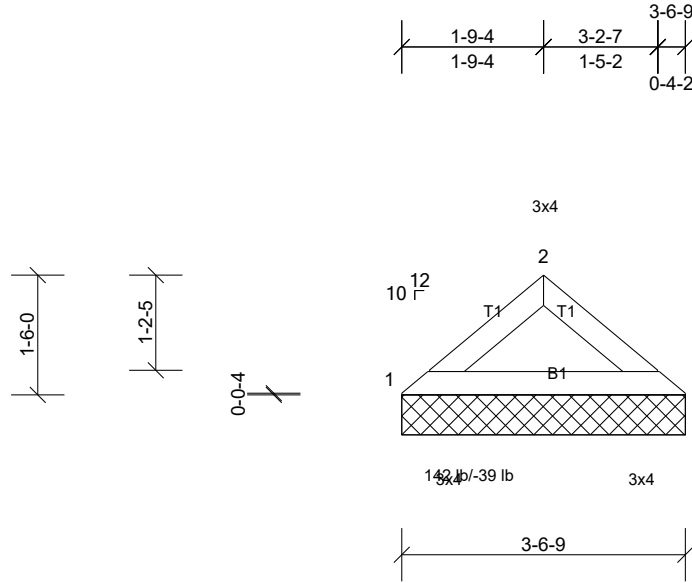
Job 72402902	Truss V6	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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Scale = 1:28.9

Plate Offsets (X, Y): [2:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	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: 11 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 3-6-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS
(lb/size) 1=142/3-6-9, (min. 0-1-8), 3=142/3-6-9, (min. 0-1-8)
Max Horiz 1=46 (LC 7)
Max Uplift 1=-39 (LC 10), 3=-39 (LC 11)

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 39 lb uplift at joint 1 and 39 lb uplift at joint 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.

LOAD CASE(S) Standard



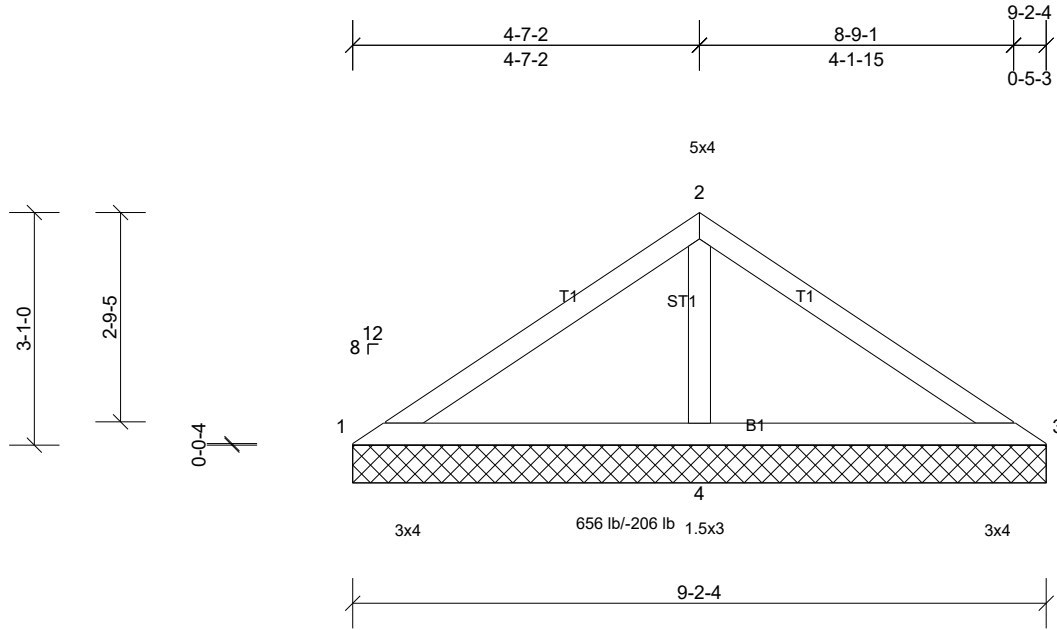
Job 72402902	Truss V7	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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Scale = 1:30.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 32 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 9-2-4 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS	2x4 SP No.3		

REACTIONS	(lb/size)	1=39/9-2-4, (min. 0-1-8), 3=39/9-2-4, (min. 0-1-8), 4=656/9-2-4, (min. 0-1-8)
Max Horiz	1=-102 (LC 6)	
Max Uplift	1=-17 (LC 22), 3=-27 (LC 6), 4=-206 (LC 10)	
Max Grav	1=75 (LC 21), 3=75 (LC 22), 4=656 (LC 1)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-127/295, 2-3=-127/294
BOT CHORD	1-4=-291/189, 3-4=-291/189
WEBS	2-4=-554/296

- 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
 - 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 17 lb uplift at joint 1, 27 lb uplift at joint 3 and 206 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
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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.



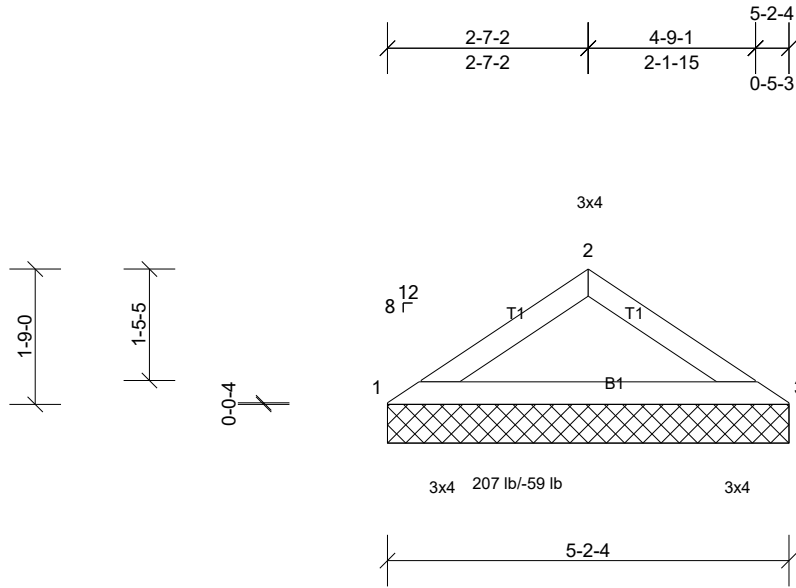
Job 72402902	Truss V8	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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ID:TK_4p1U8WoaSOCsGfx0b4dzrtqg-fwZygMrE4Xo3sfmjmjA4NsKorxAIJO0PbRlfbypXAW



Scale = 1:29.9

Plate Offsets (X, Y): [2:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	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	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 15 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 5-2-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(lb/size) 1=207/5-2-4, (min. 0-1-8), 3=207/5-2-4, (min. 0-1-8)
Max Horiz 1=-55 (LC 6)
Max Uplift 1=-59 (LC 10), 3=-59 (LC 11)

FORCES

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

TOP CHORD 1-2=-350/144
BOT CHORD 1-3=-106/281

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 59 lb uplift at joint 1 and 59 lb uplift at joint 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.

LOAD CASE(S) Standard



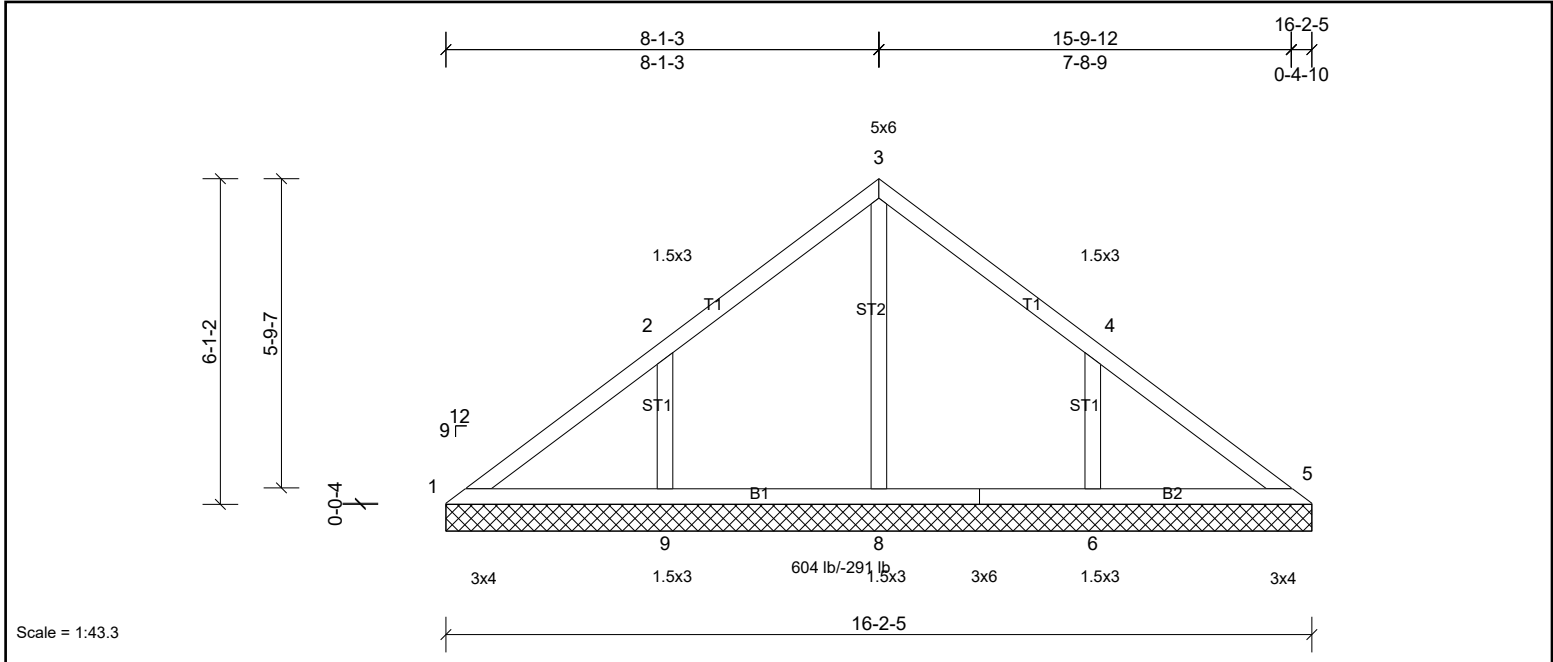
Job 72402902	Truss V9	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	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	0.28	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 68 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS
All bearings 16-2-5.
(lb) - Max Horiz 1=207 (LC 7)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 14 except 6=-285 (LC 11), 9=-291 (LC 10)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5, 14 except 6=453 (LC 18), 8=604 (LC 17), 9=453 (LC 17)

FORCES
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-154/279, 2-15=-133/343, 3-16=-8/277, 3-17=0/262, 4-21=-47/257
WEBS 3-8=-426/4, 2-9=-379/315, 4-6=-379/313

- 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) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 5-1-8, Exterior (2) 5-1-8 to 11-1-8, Interior (1) 11-1-8 to 12-9-12, Exterior (2) 12-9-12 to 15-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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) 1 except (jt=lb) 9=291, 6=284.
 - 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
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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.



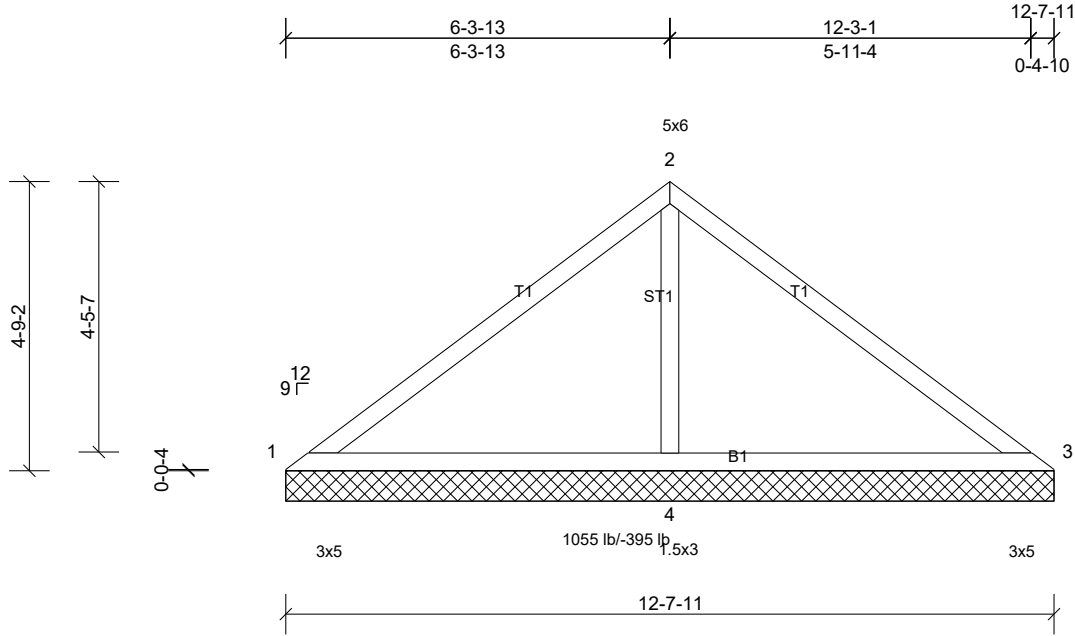
Job 72402902	Truss V10	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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Scale = 1:38.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horiz(TL)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 47 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS	2x4 SP No.3		

REACTIONS	(lb/size)	1=22/12-7-11, (min. 0-1-8), 3=22/12-7-11, (min. 0-1-8), 4=1055/12-7-11, (min. 0-1-8)
Max Horiz	1=-161 (LC 6)	
Max Uplift	1=-80 (LC 22), 3=-80 (LC 21), 4=-395 (LC 10)	
Max Grav	1=67 (LC 11), 3=95 (LC 10), 4=1055 (LC 1)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-9=-271/513, 9-10=-253/517, 2-10=-251/553, 2-11=-251/553, 11-12=-253/517, 3-12=-271/513
BOT CHORD	1-4=-523/337, 3-4=-523/337
WEBS	2-4=-988/529

- 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; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 3-4-3, Exterior (2) 3-4-3 to 9-4-3, Interior (1) 9-4-3 to 9-8-0, Exterior (2) 9-8-0 to 12-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 80 lb uplift at joint 1, 80 lb uplift at joint 3 and 395 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
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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.



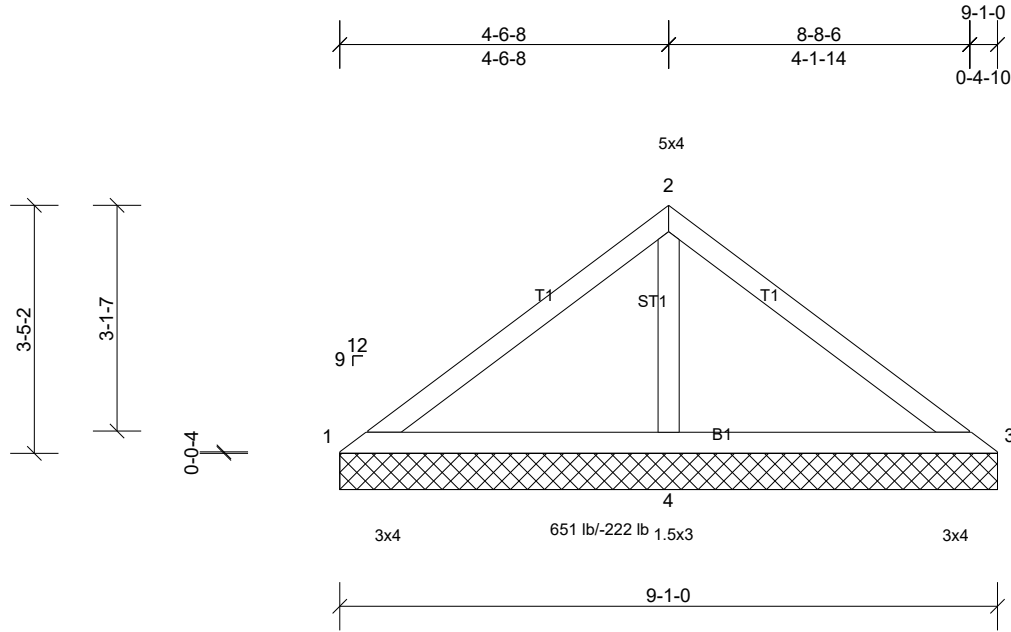
Job 72402902	Truss V11	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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Scale = 1:32

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 33 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 9'-1-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6'-0-0 oc bracing.

REACTIONS

(lb/size) 1=38/9-1-0, (min. 0-1-8), 3=38/9-1-0, (min. 0-1-8), 4=651/9-1-0, (min. 0-1-8)
 Max Horiz 1=-114 (LC 6)
 Max Uplift 1=-18 (LC 22), 3=-22 (LC 6), 4=-222 (LC 10)
 Max Grav 1=73 (LC 21), 3=73 (LC 22), 4=651 (LC 1)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-130/286, 2-3=-130/279
 BOT CHORD 1-4=-281/198, 3-4=-281/198
 WEBS 2-4=-562/309

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; 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 18 lb uplift at joint 1, 22 lb uplift at joint 3 and 222 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 72402902	Truss V12	Truss Type Truss	Qty 1	Ply 1	AHP - SMITH RESIDENCE ROOF Job Reference (optional)
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UFPI Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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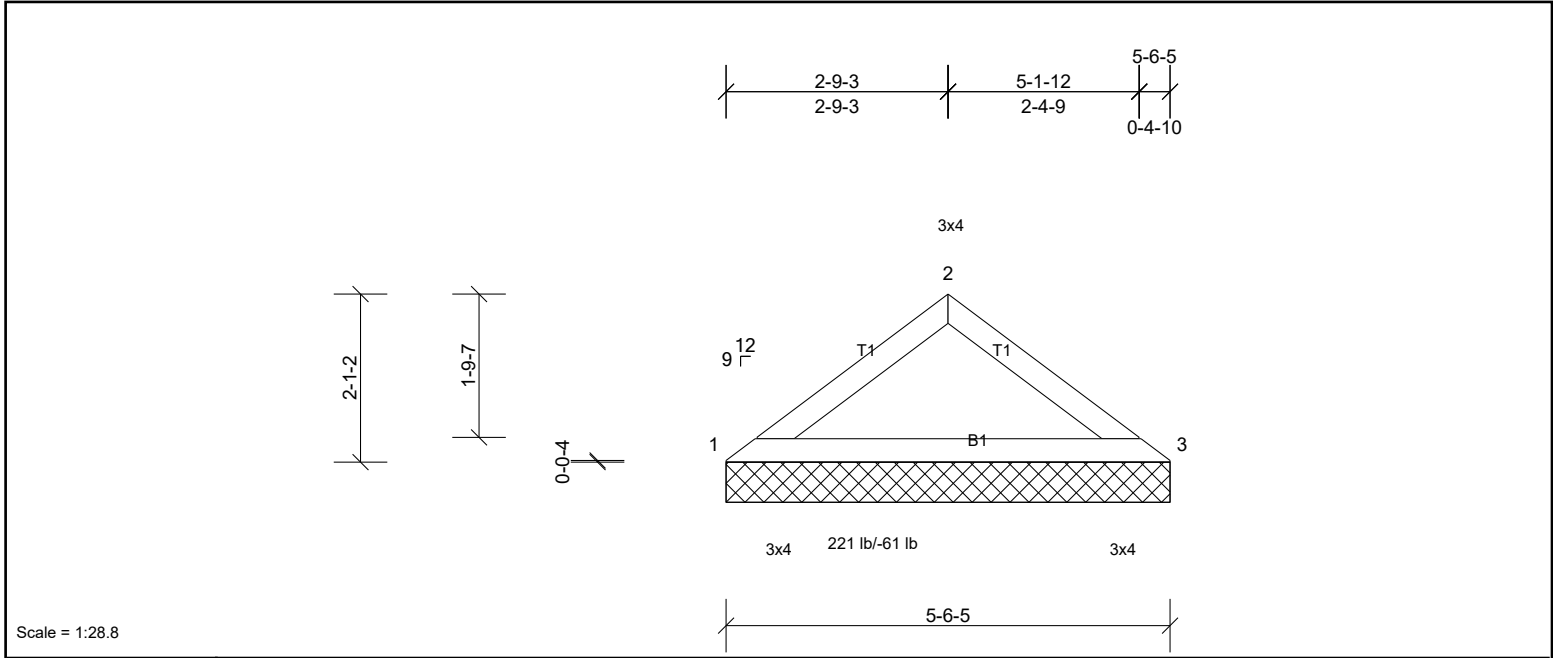


Plate Offsets (X, Y): [2:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	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: 17 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-6-5 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS	
(lb/size)	1=221/5-6-5, (min. 0-1-8), 3=221/5-6-5, (min. 0-1-8)
Max Horiz	1=-67 (LC 6)
Max Uplift	1=-61 (LC 10), 3=-61 (LC 11)

FORCES	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-352/142
BOT CHORD	1-3=-100/279

- 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 61 lb uplift at joint 1 and 61 lb uplift at joint 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.

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.

