

Job 23042507	Truss A1G	Truss Type Truss	Qty 1	Ply 1	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. Fri Apr 28 10:37:31

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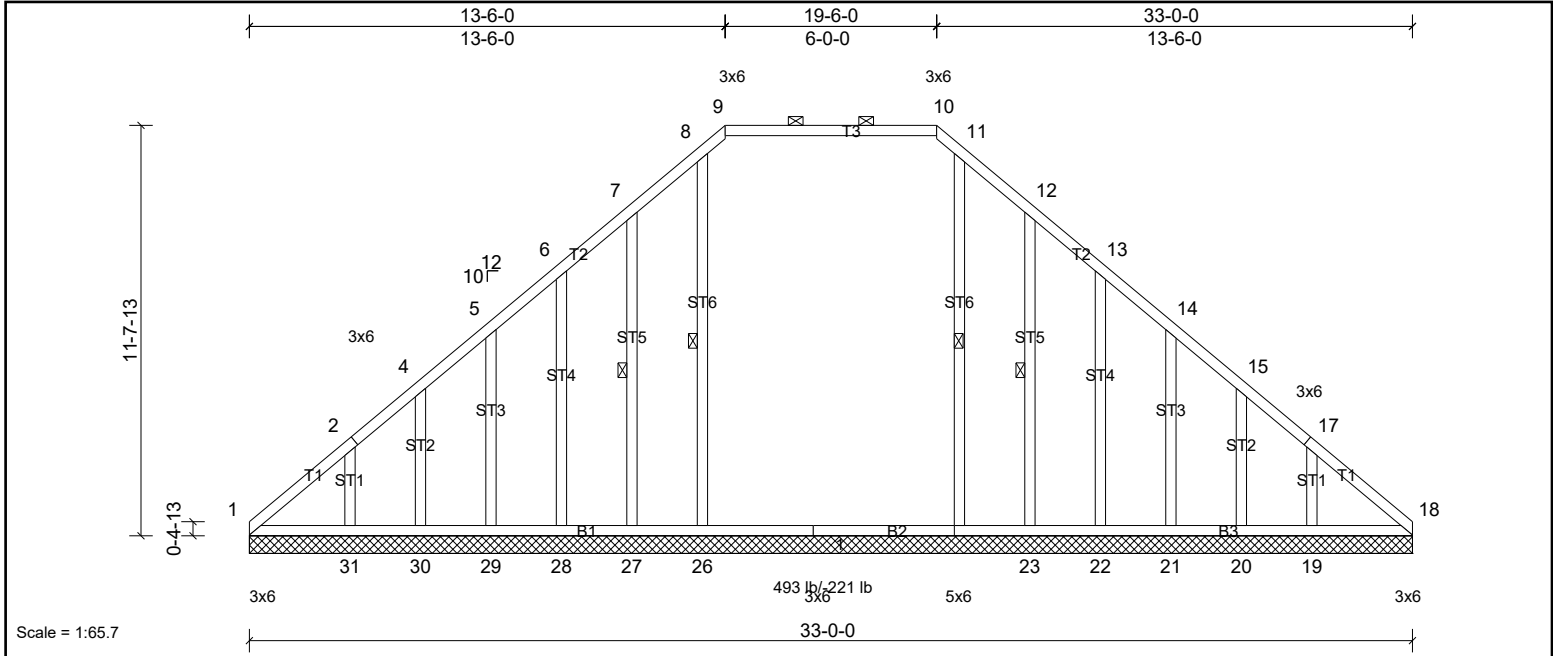


Plate Offsets (X, Y): [1:0-4-1,0-1-8], [3:0-1-11,Edge], [9:0-1-13,Edge], [10:0-1-13,Edge], [16:0-1-11,Edge], [18:0-4-1,0-1-8], [24:0-3-0,0-3-0]

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	0.53	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.02	18	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 225 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 2-0-0 oc purlins (6-0-0 max.): 9-10.
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 8-26, 11-24, 7-27, 12-23

REACTIONS
All bearings 33-0-0.
(lb) - Max Horiz 1=397 (LC 7), 32=397 (LC 7)
Max Uplift All uplift 100 (lb) or less at joint(s) 26 except 1=193 (LC 6), 18=140 (LC 7), 19=220 (LC 11), 20=110 (LC 11), 21=149 (LC 11), 22=123 (LC 11), 23=209 (LC 11), 27=199 (LC 10), 28=125 (LC 10), 29=149 (LC 10), 30=109 (LC 10), 31=222 (LC 10), 32=193 (LC 6), 35=140 (LC 7)
Max Grav All reactions 250 (lb) or less at joint(s) 20, 21, 22, 23, 27, 28, 29, 30 except 1=375 (LC 19), 18=350 (LC 20), 19=283 (LC 18), 24=449 (LC 19), 26=494 (LC 20), 31=285 (LC 17), 32=375 (LC 19), 35=350 (LC 20)

FORCES
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-520/391, 2-3=-435/317, 3-4=-432/332, 4-5=-375/327, 5-6=-311/317, 6-7=-312/312, 7-8=-308/352, 8-9=-299/335, 9-10=-279/331, 10-11=-299/335, 11-12=-308/351, 12-13=-315/233, 13-14=-308/237, 14-15=-337/247, 15-16=-396/252, 16-17=-401/237, 17-18=-481/310
BOT CHORD 1-31=-245/383, 30-31=-245/383, 29-30=-245/383, 28-29=-245/383, 27-28=-245/383, 26-27=-245/383, 25-26=-245/383, 24-25=-245/383, 23-24=-244/383, 22-23=-244/383, 21-22=-244/383, 20-21=-244/383, 19-20=-244/383, 18-19=-244/383

- 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) 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 requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26 except (jt=lb) 1=192, 18=139, 27=199, 28=124, 29=148, 30=109, 31=221, 23=208, 22=122, 21=148, 20=110, 19=220, 1=192, 18=139.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 32.
  - 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 23042507	Truss A2	Truss Type Truss	Qty 22	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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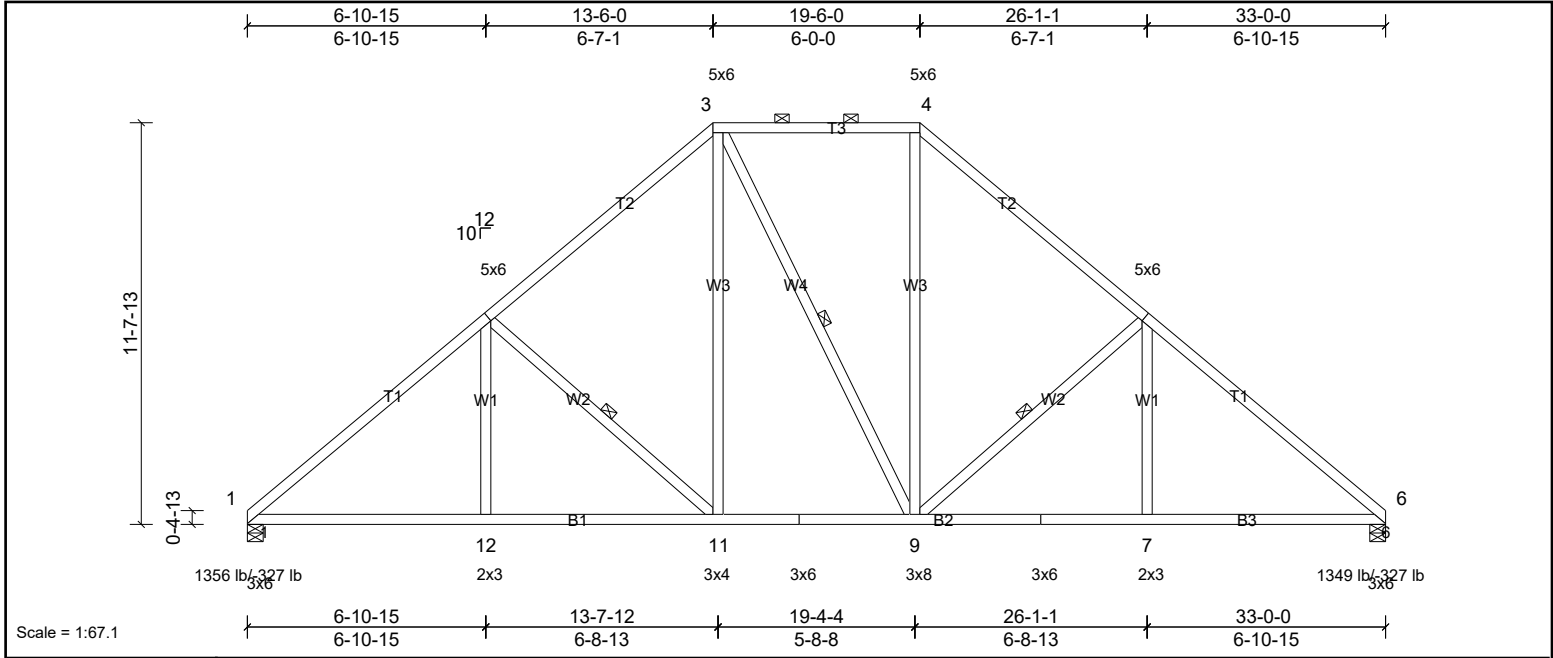


Plate Offsets (X, Y):	[1:0-6-0,0-0-6], [2:0-3-0,0-3-4], [3:0-1-8,0-2-0], [5:0-3-0,0-3-4], [6:0-4-1,0-1-8]
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	0.14	12-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.16	12-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.06	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 204 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-6-12 oc purlins, except 2-0-0 oc purlins (4-11-5 max.): 3-4.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-3-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 2-11, 3-9, 5-9
<b>REACTIONS</b>	
(lb/size) 1=1320/0-5-8, (min. 0-1-10), 6=1320/0-5-8, (min. 0-1-9)	
Max Horiz 1=-397 (LC 6)	
Max Uplift 1=-327 (LC 10), 6=-327 (LC 11)	
Max Grav 1=1356 (LC 2), 6=1349 (LC 2)	
<b>FORCES</b>	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 1-2=-1873/672, 2-3=-1396/693, 3-4=-1129/639, 4-5=-1385/693, 5-6=-1862/672	
BOT CHORD 1-19=-435/1573, 12-19=-435/1573, 12-20=-435/1570, 11-20=-435/1570, 10-11=-196/1066, 10-21=-196/1066, 9-21=-196/1066, 8-9=-355/1358, 8-22=-355/1358, 7-22=-355/1358, 7-23=-354/1361, 6-23=-354/1361	
WEBS 2-12=0/313, 2-11=-702/444, 3-11=-210/650, 4-9=-188/578, 5-9=-701/444, 5-7=0/315	

- 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
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 327 lb uplift at joint 1 and 327 lb uplift at joint 6.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S)** Standard

Job 23042507	Truss A3G	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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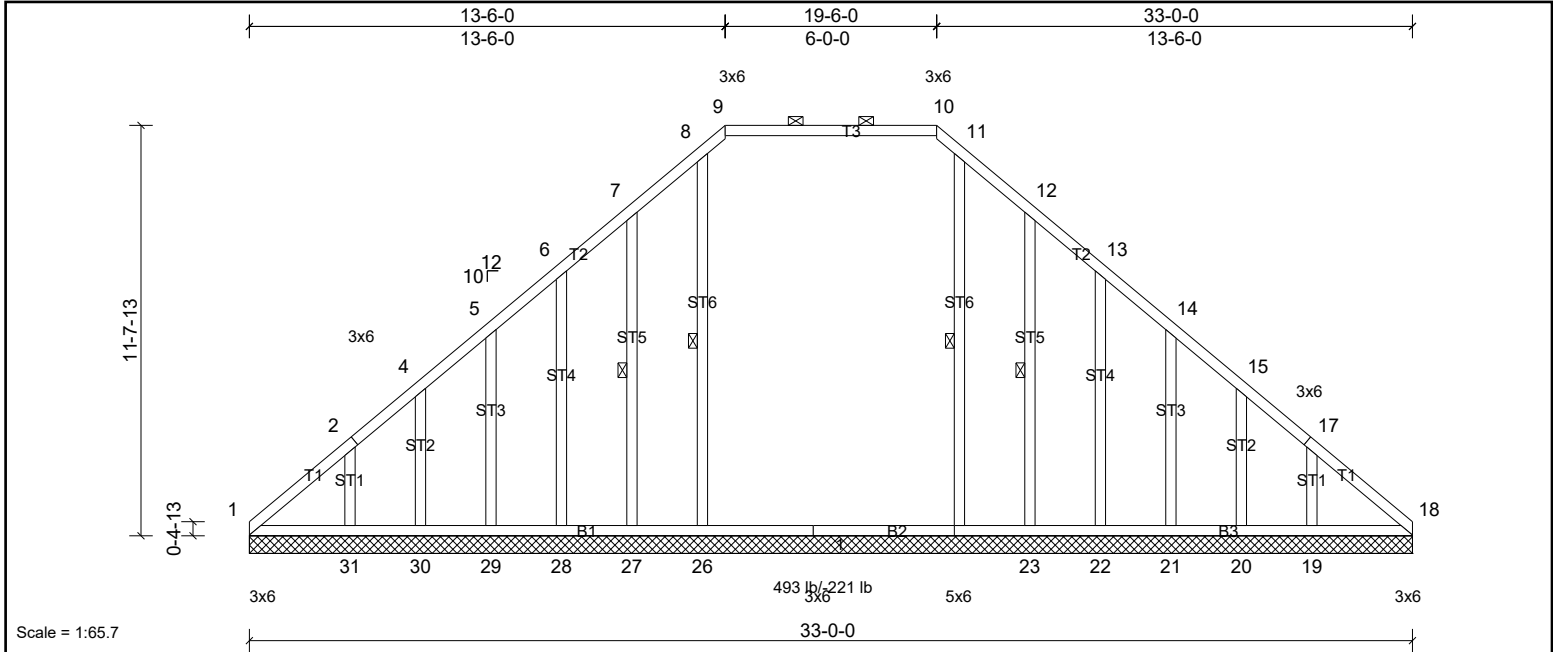


Plate Offsets (X, Y):	[1:0-4-1,0-1-8], [3:0-1-11,Edge], [9:0-1-13,Edge], [10:0-1-13,Edge], [11:0-0-0,Edge], [12:0-0-0,Edge], [13:0-0-0,Edge], [14:0-0-0,Edge], [15:0-0-0,Edge], [16:0-1-11,Edge], [17:0-0-0,Edge], [18:0-4-1,0-1-8], [24:0-3-0,0-3-0]
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Loading	(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	0.53	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.02	18	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 225 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 2-0-0 oc purlins (6-0-0 max.): 9-10.
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

REACTIONS
All bearings 33-0-0.
(lb) - Max Horiz 1=-397 (LC 6), 32=-397 (LC 6)
Max Uplift All uplift 100 (lb) or less at joint(s) 26 except 1=-193 (LC 6), 18=-140 (LC 7), 19=-220 (LC 11), 20=-110 (LC 11), 21=-149 (LC 11), 22=-123 (LC 11), 23=-209 (LC 11), 27=-199 (LC 10), 28=-125 (LC 10), 29=-149 (LC 10), 30=-109 (LC 10), 31=-222 (LC 10), 32=-193 (LC 6), 35=-140 (LC 7)
Max Grav All reactions 250 (lb) or less at joint(s) 20, 21, 22, 23, 27, 28, 29, 30 except 1=375 (LC 19), 18=350 (LC 20), 19=283 (LC 18), 24=449 (LC 19), 26=494 (LC 20), 31=285 (LC 17), 32=375 (LC 19), 35=350 (LC 20)

FORCES
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-520/391, 2-3=-435/316, 3-4=-432/332, 4-5=-375/327, 5-6=-311/317, 6-7=-312/312, 7-8=-308/352, 8-9=-299/335, 9-10=-279/331, 10-11=-299/335, 11-12=-308/351, 12-13=-315/234, 13-14=-308/237, 14-15=-337/247, 15-16=-396/252, 16-17=-401/237, 17-18=-481/310
BOT CHORD 1-31=-245/383, 30-31=-245/383, 29-30=-245/383, 28-29=-245/383, 27-28=-245/383, 26-27=-245/383, 25-26=-245/383, 24-25=-245/383, 23-24=-244/383, 22-23=-244/383, 21-22=-244/383, 20-21=-244/383, 19-20=-244/383, 18-19=-244/383

- 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) 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 requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26 except (jt=lb) 1=192, 18=139, 27=199, 28=124, 29=148, 30=109, 31=221, 23=208, 22=122, 21=148, 20=110, 19=220, 1=192, 18=139.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 18, 32, 35.
  - 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
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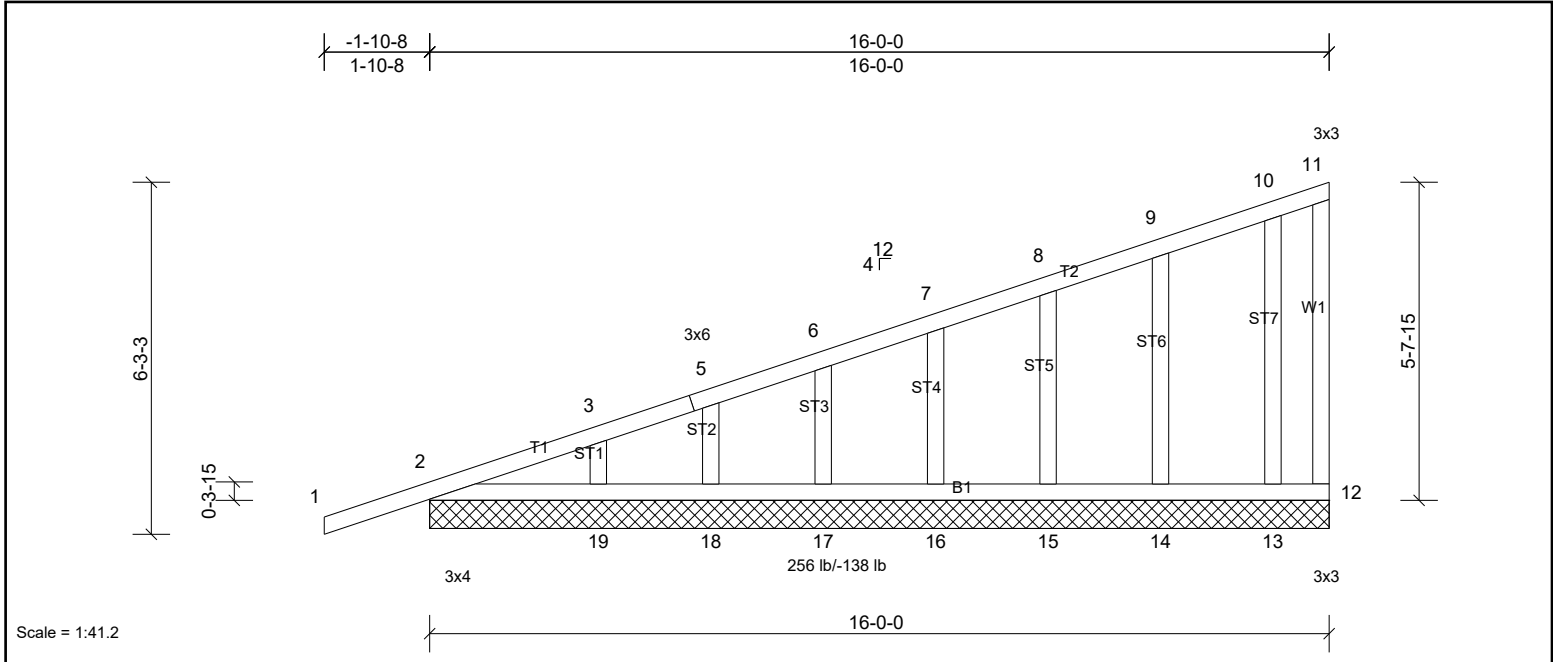
Job 23042507	Truss B1G	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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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	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 88 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		
OTHERS	2x4 SP No.3		

REACTIONS	
All bearings	16'-0-0.
(lb) - Max Horiz	2=336 (LC 9), 20=336 (LC 9)
Max Uplift	All uplift 100 (lb) or less at joint(s) 12, 13, 14, 15, 16, 17, 18, 19 except 2=-139 (LC 6), 20=-139 (LC 6)
Max Grav	All reactions 250 (lb) or less at joint(s) 12, 13, 14, 15, 16, 17, 18, 19 except 2=256 (LC 1), 20=256 (LC 1)

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

- NOTES**
- 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.
  - All plates are 1.5x3 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 17, 16, 18, 19, 15, 14, 13 except (jt=lb) 2=138, 2=138.
  - 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.



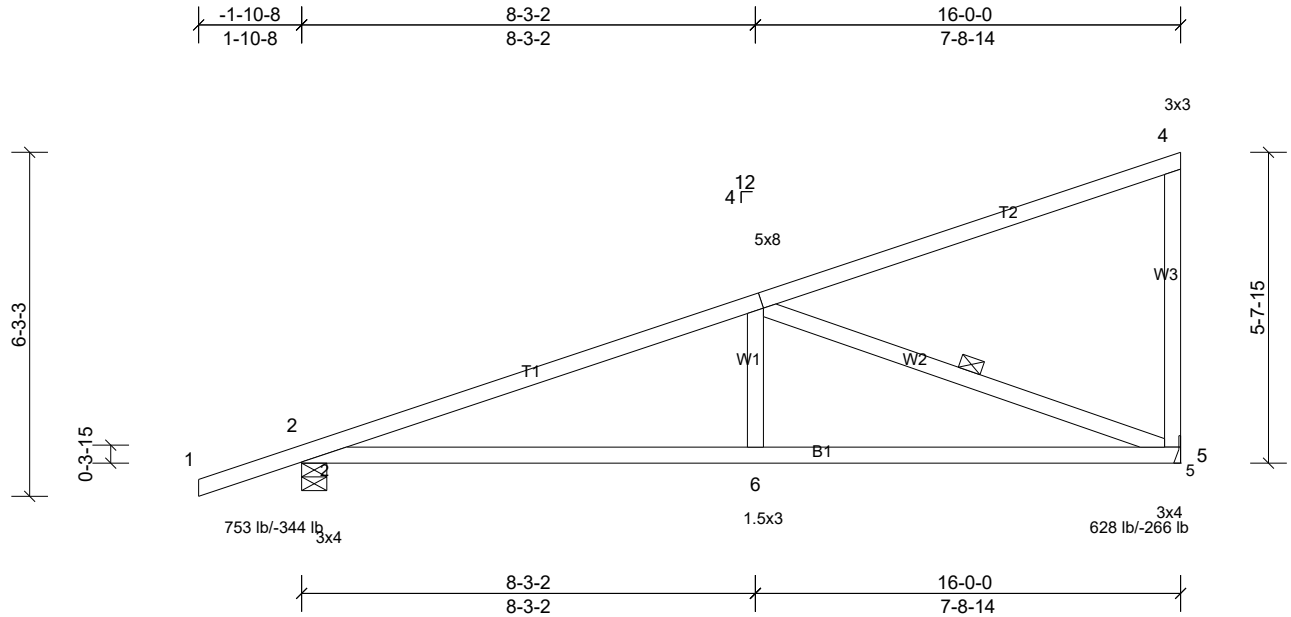
Job 23042507	Truss B2	Truss Type Truss	Qty 21	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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Scale = 1:42.1

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

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	0.82	Vert(LL)	0.16	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.25	6-9	>756	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 75 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-2-4 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-6-4 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 3-5

**REACTIONS**

(lb/size)	2=753/0-5-8, (min. 0-1-8), 5=628/ Mechanical, (min. 0-1-8)
Max Horiz	2=336 (LC 9)
Max Uplift	2=-344 (LC 6), 5=-266 (LC 10)

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

TOP CHORD	2-3=-1169/503
BOT CHORD	2-6=-443/1068, 5-6=-446/1061
WEBS	3-6=0/366, 3-5=-1110/602

- 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) 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
  - 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) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 344 lb uplift at joint 2 and 266 lb uplift at joint 5.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

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



Job 23042507	Truss C1G	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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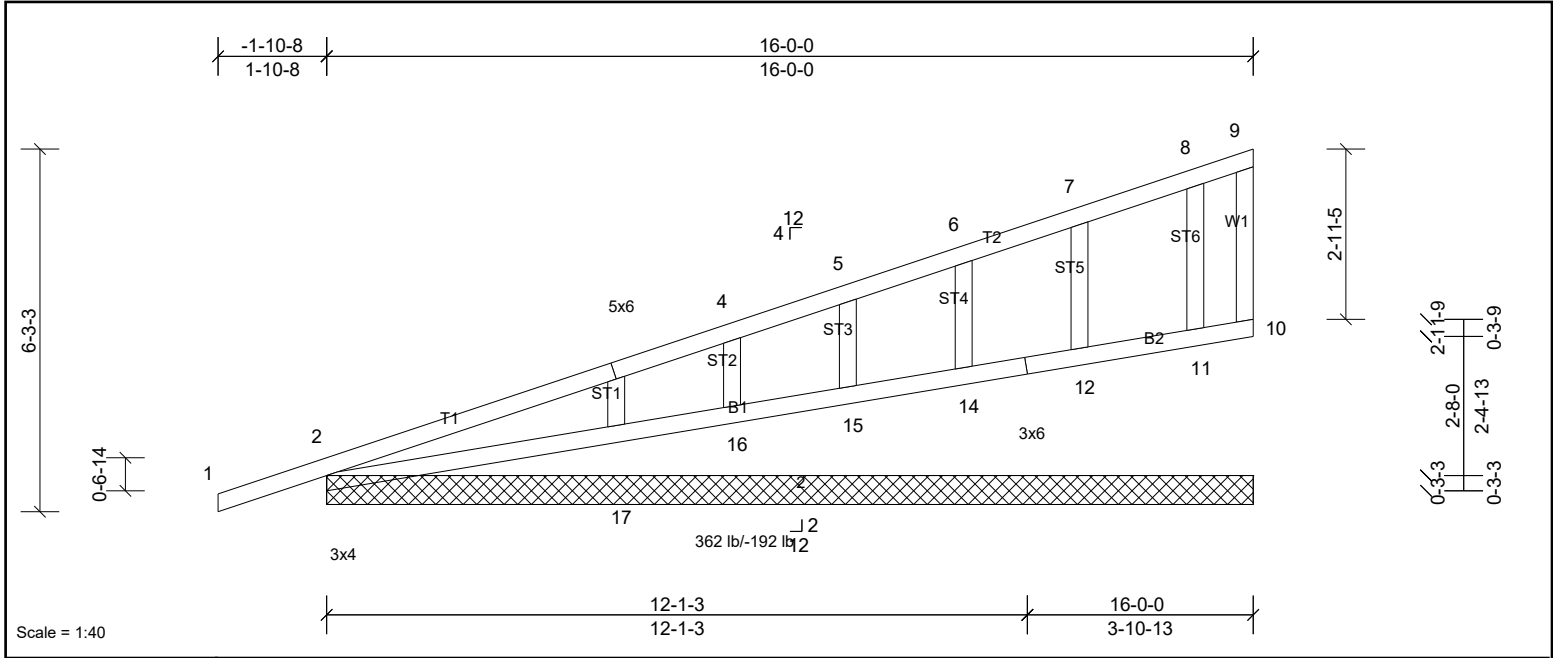


Plate Offsets (X, Y): [2:0-0-15,0-1-8], [3:0-3-0,0-3-0]

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	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 72 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, Except: 6-0-0 oc bracing: 16-17,12-14.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

**REACTIONS** All bearings 16-0-0.  
 (lb) - Max Horiz 2=282 (LC 7), 18=282 (LC 7)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 10, 11, 12, 14, 15, 16 except 2=128 (LC 6), 17=192 (LC 10), 18=128 (LC 6)  
 Max Grav All reactions 250 (lb) or less at joint(s) 10, 11, 12, 14, 15, 16 except 2=306 (LC 1), 17=362 (LC 1), 18=306 (LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=420/226  
 WEBS 3-17=255/228

- 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) 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
  - 2) Truss designed for wind loads in the plane of the truss only.
  - 3) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) Gable studs spaced at 2-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 8) Bearing at joint(s) 10, 12, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 16, 15, 14, 12, 11 except (jt=lb) 17=192, 2=128, 2=128.
  - 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 17, 16, 15, 14, 12, 11, 2, 18.
  - 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

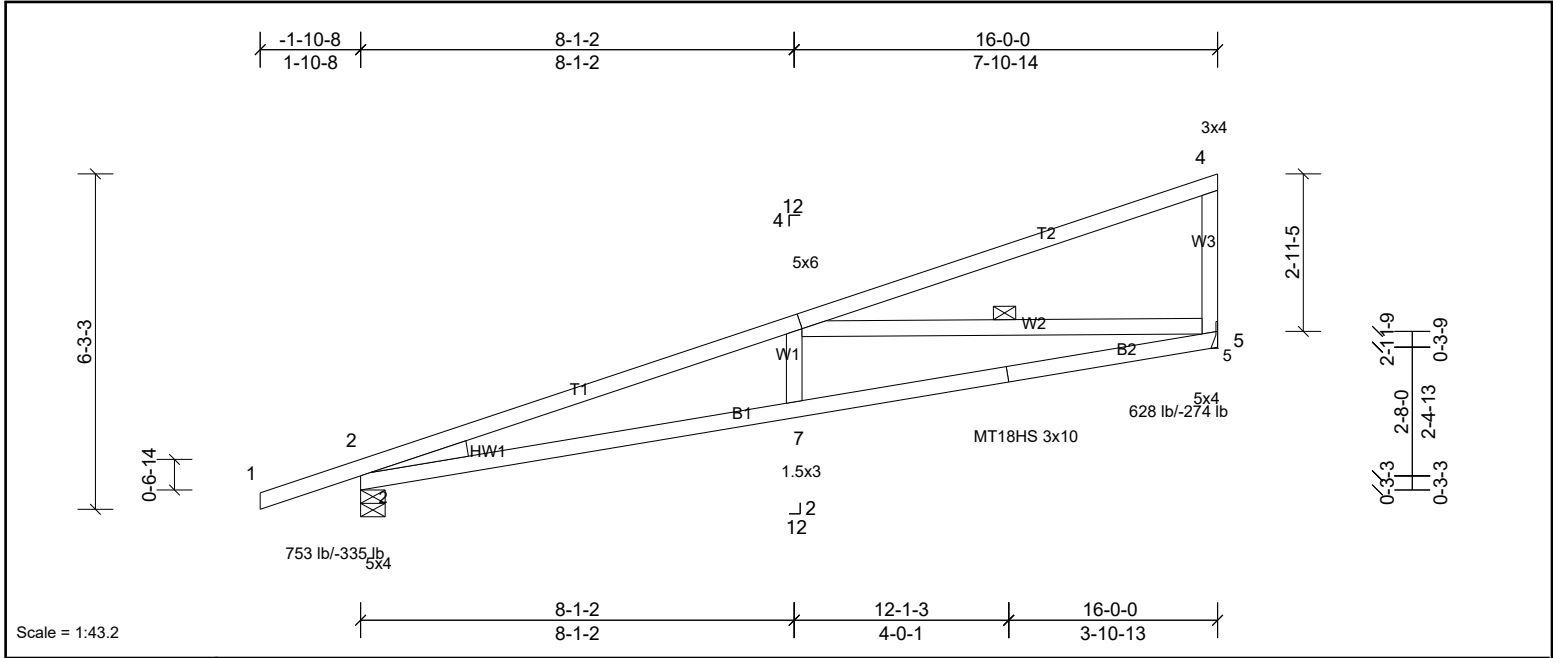
Job 23042507	Truss C2	Truss Type Truss	Qty 14	Ply 1	Job Reference (optional)
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Scale = 1:43.2

Plate Offsets (X, Y):		[3:0-3-0,0-3-4]										
<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	0.17	5-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.28	5-7	>675	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.05	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 72 lb	FT = 20%

<b>LUMBER</b>		<b>BRACING</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-5-2 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-1 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt
WEDGE	Left: 2x4 SP No.2		3-5

<b>REACTIONS</b>	(lb/size)	2=753/0-5-8, (min. 0-1-8), 5=628/ Mechanical, (min. 0-1-8)
	Max Horiz	2=282 (LC 7)
	Max Uplift	2=-335 (LC 6), 5=-274 (LC 10)

<b>FORCES</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1888/842
BOT CHORD	2-7=-901/1751, 6-7=-912/1732, 5-6=-902/1745
WEBS	3-7=0/327, 3-5=-1642/925

- 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) 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
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 274 lb uplift at joint 5 and 335 lb uplift at joint 2.
  - 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
  - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job 23042507	Truss C3	Truss Type Truss	Qty 8	Ply 1	Job Reference (optional)
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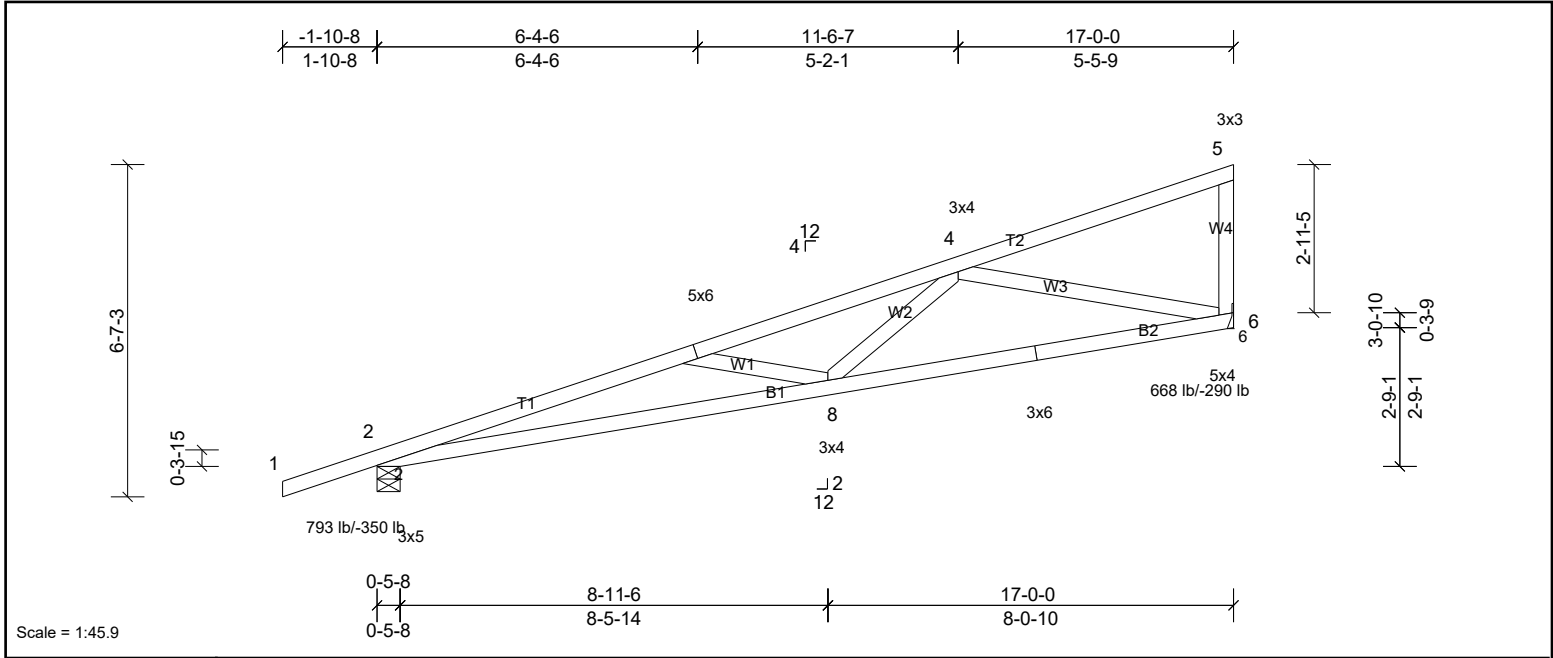


Plate Offsets (X, Y): [3:0-3-0,0-3-0]

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	0.47	Vert(LL)	0.18	8-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.29	8-11	>691	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 77 lb	FT = 20%

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

REACTIONS	(lb/size)	2=793/0-5-8, (min. 0-1-8), 6=668/ Mechanical, (min. 0-1-8)
	Max Horiz	2=294 (LC 7)
	Max Uplift	2=-350 (LC 6), 6=-290 (LC 10)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2448/1135, 3-4=-1901/780
BOT CHORD	2-8=-1212/2326, 7-8=-669/1259, 6-7=-660/1271
WEBS	3-8=-540/450, 4-8=-143/798, 4-6=-1233/727

- 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) 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
  - 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) Refer to girder(s) for truss to truss connections.
  - 5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 290 lb uplift at joint 6 and 350 lb uplift at joint 2.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

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





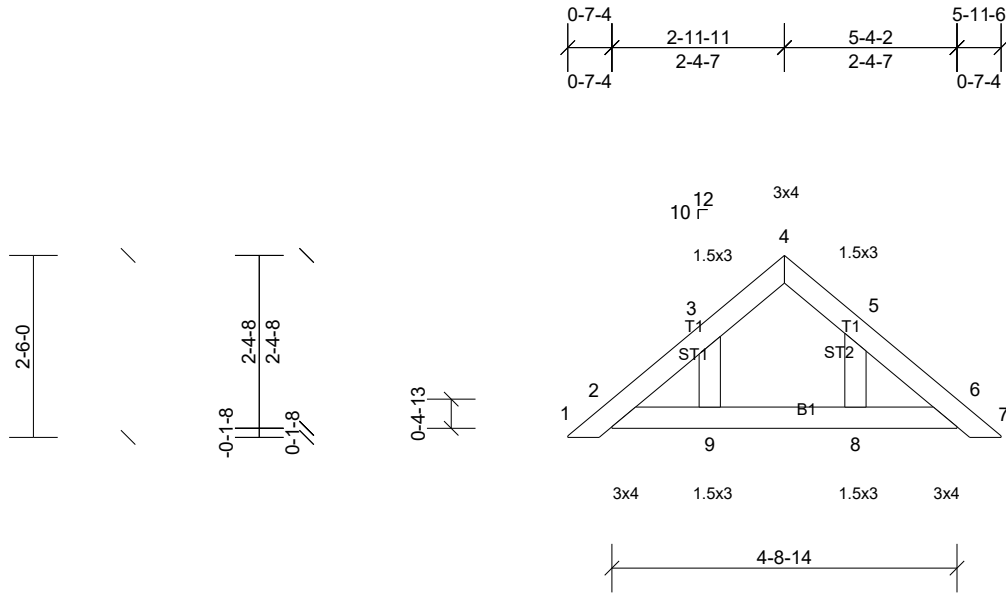
Job 23042507	Truss PB1	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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Scale = 1:31.8

Plate Offsets (X, Y): [2:0-2-1,0-1-8], [4:0-2-0,Edge], [6:0-2-1,0-1-8]

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	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 22 lb	FT = 20%

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

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

**REACTIONS** All bearings 4-8-14.  
 (lb) - Max Horiz 2=-81 (LC 8), 10=-81 (LC 8)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 8, 9  
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 6, 8, 9, 10, 14

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=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 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.
  - See standard piggyback truss connection detail for connection to base truss.

**LOAD CASE(S)** Standard



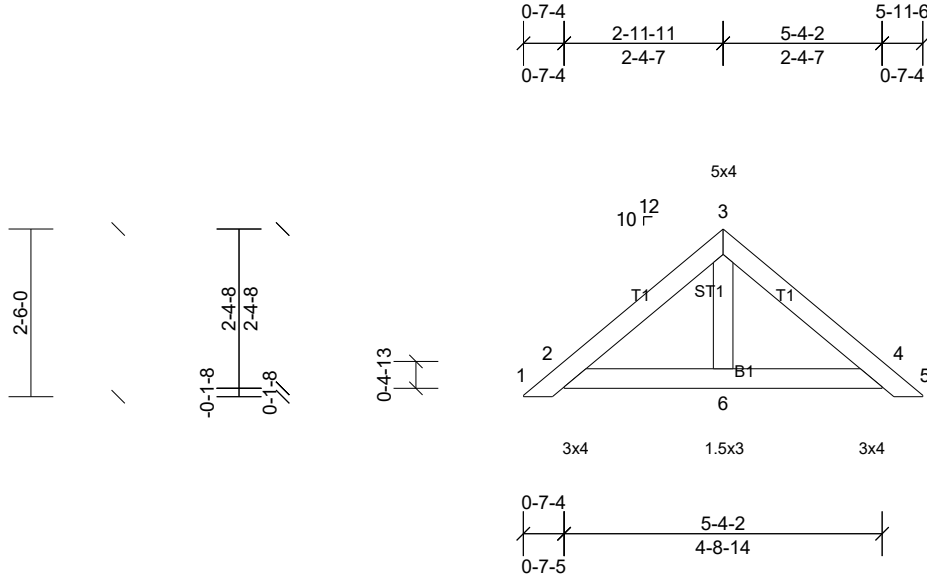
Job 23042507	Truss PB2	Truss Type Truss	Qty 22	Ply 1	Job Reference (optional)
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Scale = 1:34.5

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 21 lb	FT = 20%

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

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

**REACTIONS** All bearings 6-0-0.  
(lb) - Max Horiz 1=-81 (LC 6)  
Max Uplift All uplift 100 (lb) or less at joint(s) 5, 6 except 1=-142 (LC 17), 2=-180 (LC 10), 4=-157 (LC 11), 7=-180 (LC 10), 10=-157 (LC 11)  
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5, 6 except 2=300 (LC 17), 4=257 (LC 18), 7=300 (LC 17), 10=257 (LC 18)

**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) 1, 5, 6 except (jt=lb) 1=142, 2=180, 4=156, 2=180, 4=156.
  - 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.

