

Design Information:

Building Code:	IBC2015	Floor Dead Load:	10.0 lb/ft ²	Roof Dead Load:	10.0 lb/ft ²	Ground Snow Load:	0.0 lb/ft ²
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft ²	Roof Live Load:	20.0 lb/ft ²		
		Unbraced Length	Top: 1'- 10 1/2"	Bottom:	6'- 3 9/16"		

Design Results:

	Location	Design	Control	Result	LDF	Load Combination	
Critical Moment (Pos)	3'- 4 1/2"	2795.57 lb ft	14370.67 lb ft	Passed - 19%	1.15	D + Lr	
Critical Shear	1'- 3/8"	1485.36 lb	7073.94 lb	Passed - 21%	1.15	D + Lr	
Live Load Deflection	3'- 4 7/8"	0'	N/A (L/360)	Passed - L/999	-	Lr	
Total Load Deflection	3'- 4 7/8"	0'- 1/16"	N/A (L/240)	Passed - L/999	-	D + Lr	
Max. Reaction	0'- 2 1/8"	1495.11 lb	Supported Mt 8793.90 lb	7969.47 lb	Passed - 19%	1.15	D + Lr
	6'- 7 3/4"	1461.20 lb	8400.03 lb	7612.53 lb	Passed - 19%	1.15	D + Lr

Design Notes:

* Member design assumed proper ply to ply connection. Verify connection between plies according to code specification

Loading:

Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Self Weight	0'	6'- 9 3/4"	Self Weight	9 lb/ft	-	-	-
Uniform	0'- 4 1/2"	6'- 4 1/2"	Smoothed Load	245 lb/ft	-	237 lb/ft	-
Point	1'- 4 1/2"	1'- 4 1/2"	T1A(c03)	-	-	-2.00 lb	-
Point	3'- 4 1/2"	3'- 4 1/2"	T1A(c02)	-	-	-2.00 lb	-
Point	5'- 4 1/2"	5'- 4 1/2"	T1A(c01)	-	-	-2.00 lb	-

Support Information:

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 3 1/8"	E2(i3)	776.00 lb	-	719.00/-3.00 lb	-
2	6'- 6 3/4"	6'- 9 3/4"	E3(i14)	759.00 lb	-	703.00/-3.00 lb	-

Errors, Warnings & Notes:

- * The dead loads used in the design of this member were applied to the structure as projected dead loads.
- * Calculation of lateral stability factor (CL) is based on width of all plies.
- * The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.
- * Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.

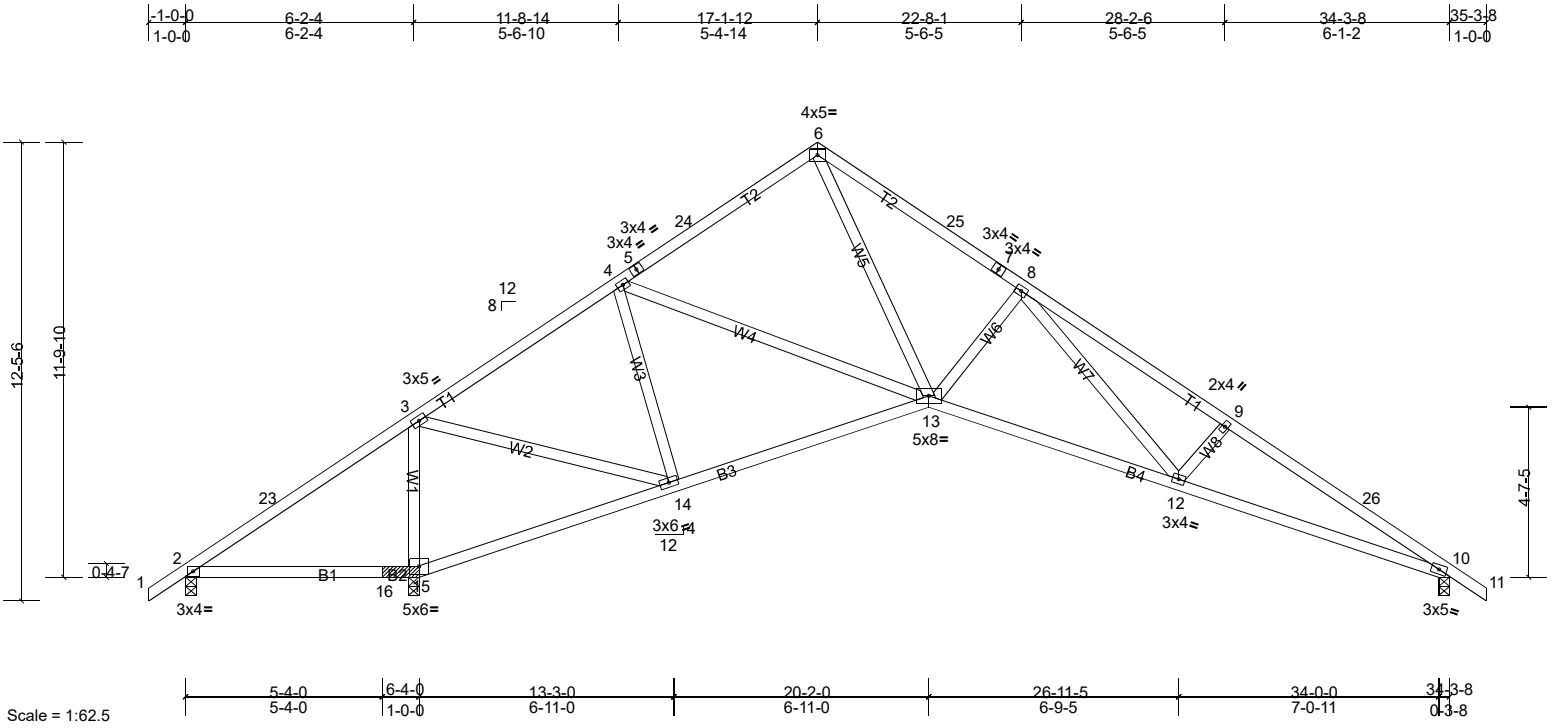
Job Q-1902247-1	Truss T1	Truss Type Roof Special	Qty 8	Ply 1	Tiffany Weaver House-Roof Job Reference (optional)
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.14	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.31	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.17	10	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS								Weight: 187 lb FT = 20%

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 3-4-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 5-0-15 oc bracing.

REACTIONS (lb/size) 2=-419/0-3-8, (min. 0-1-8), 10=1012/0-3-8, (min. 0-1-9),
 15=2270/(0-3-8 + bearing block), (min. 0-3-9)
 Max Horiz 2=-222 (LC 9)
 Max Uplift 2=-501 (LC 21), 10=-166 (LC 11), 15=-204 (LC 11)
 Max Grav 2=-38 (LC 11), 10=1012 (LC 1), 15=2270 (LC 1)

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

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-23=-85/1213, 3-23=-28/1338, 3-4=-625/152, 4-5=-950/122, 5-24=-932/136, 6-24=-853/159, 6-25=-1336/195,
 7-25=-1367/172, 7-8=-1436/162, 8-9=-2329/317, 9-26=-2442/294, 10-26=-2533/271
 BOT CHORD 2-16=-1016/125, 15-16=-1016/125, 14-15=-1158/156, 13-14=-43/363, 12-13=0/1530, 10-12=-146/2164
 WEBS 3-15=-1754/220, 3-14=-11/1565, 4-14=-715/96, 4-13=0/526, 6-13=-76/996, 8-13=-528/228, 8-12=-148/715,
 9-12=-274/172

- NOTES**
- 2x4 SP No.2 bearing block 12" long at jt. 15 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF No.2.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-5-2, Interior (1) 2-5-2 to 17-1-12, Exterior (2) 17-1-12 to 20-6-14, Interior (1) 20-6-14 to 35-3-8 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 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 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 501 lb uplift at joint 2, 204 lb uplift at joint 15 and 166 lb uplift at joint 10.
 - This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

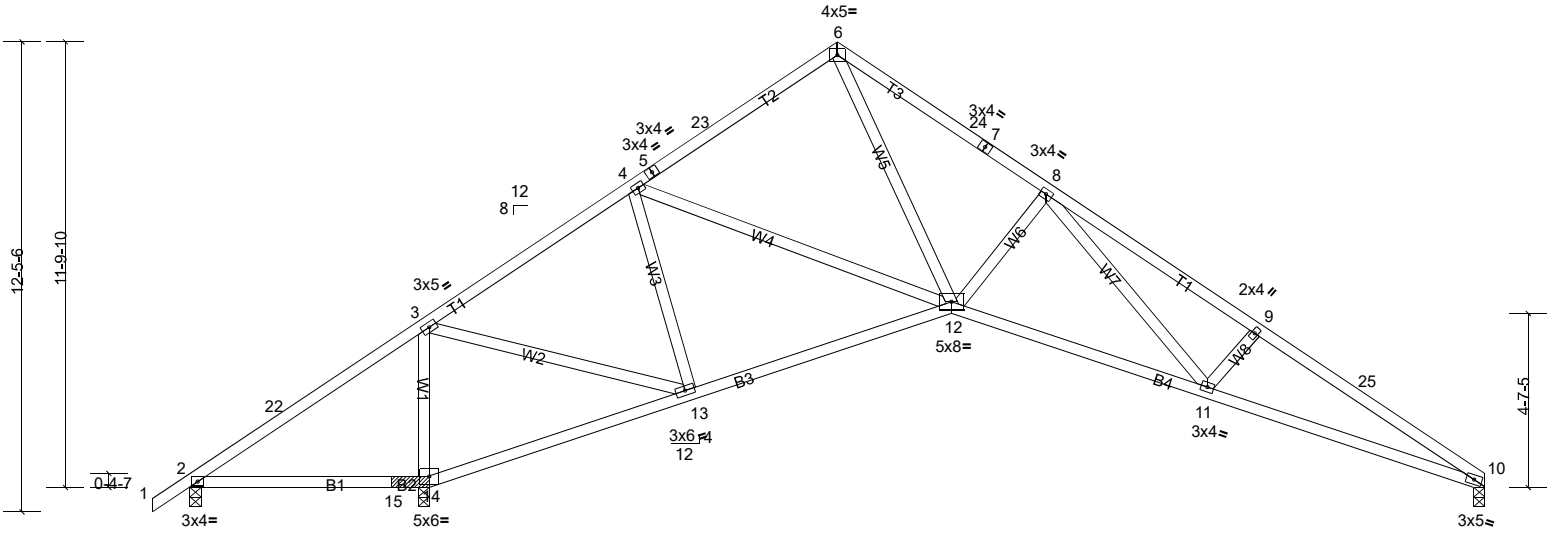
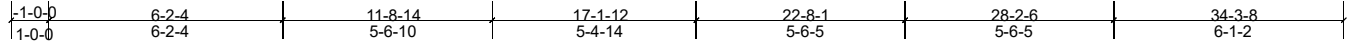
Job Q-1902247-1	Truss T1A	Truss Type Roof Special	Qty 3	Ply 1	Tiffany Weaver House-Roof Job Reference (optional)
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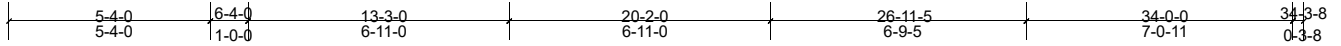
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.14	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.31	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.17	10	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS								
											Weight: 185 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 3-3-1 oc purlins.
 Rigid ceiling directly applied or 5-0-15 oc bracing.

REACTIONS (lb/size) 2=-419/0-3-8, (min. 0-1-8), 10=951/0-3-8, (min. 0-1-8),
 14=2271/(0-3-8 + bearing block), (min. 0-3-9)
 Max Horiz 2=218 (LC 10)
 Max Uplift 2=-501 (LC 21), 10=-125 (LC 11), 14=-233 (LC 11)
 Max Grav 2=-15 (LC 11), 10=951 (LC 1), 14=2271 (LC 1)

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

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-22=-101/1213, 3-22=-68/1338, 3-4=-626/147, 4-5=-952/134, 5-23=-934/147, 6-23=-855/170, 6-24=-1339/216,
 7-24=-1370/193, 7-8=-1440/183, 8-9=-2342/345, 9-25=-2451/322, 10-25=-2547/303
 BOT CHORD 2-15=-1016/128, 14-15=-1016/128, 13-14=-1158/159, 12-13=-41/359, 11-12=0/1535, 10-11=-206/2178
 WEBS 3-14=-1755/248, 3-13=-42/1567, 4-13=-715/113, 4-12=0/527, 6-12=-95/999, 8-12=-530/230, 8-11=-155/725,
 9-11=-277/174

NOTES

- 2x4 SP No.2 bearing block 12" long at jt. 14 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF No.2.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 1-0-0 to 2-5-2, Interior (1) 2-5-2 to 17-1-12, Exterior (2) 17-1-12 to 20-6-14, Interior (1) 20-6-14 to 34-3-8 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 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 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 501 lb uplift at joint 2, 233 lb uplift at joint 14 and 125 lb uplift at joint 10.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

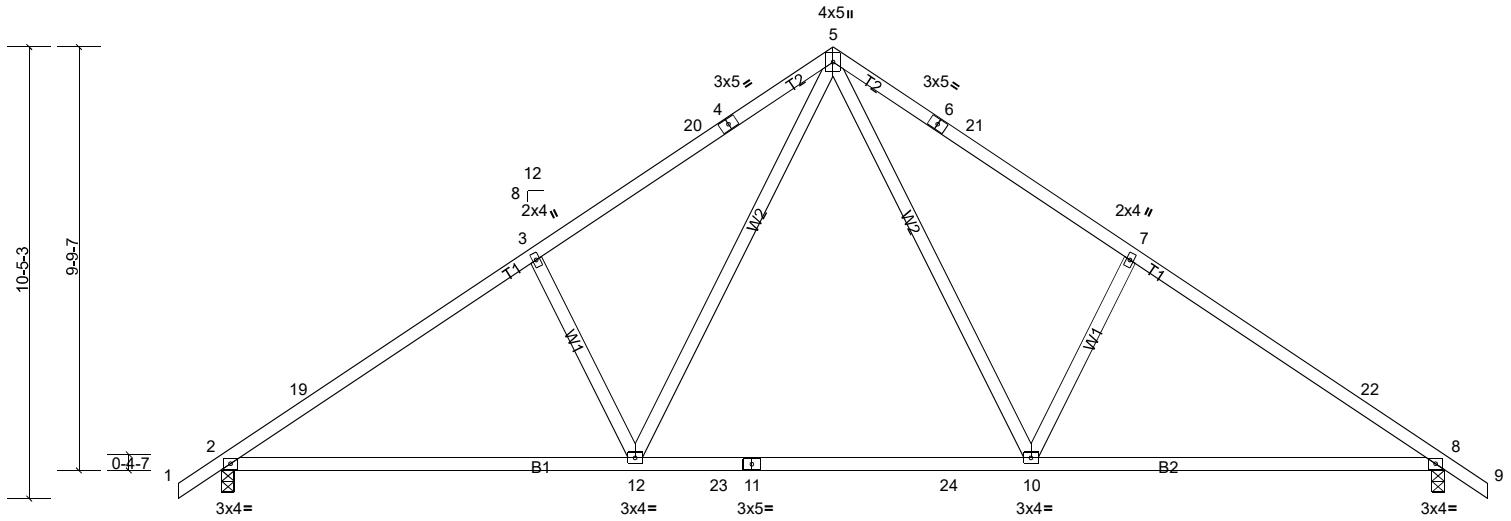
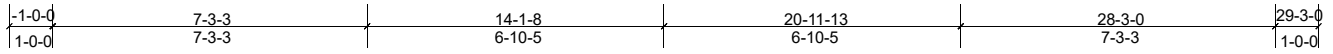
Job Q-1902247-1	Truss T2	Truss Type Common	Qty 8	Ply 1	Tiffany Weaver House-Roof Job Reference (optional)
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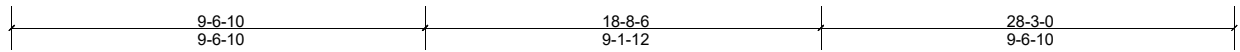
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.36	10-12	>931	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.46	10-12	>739	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS								Weight: 142 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 3-7-13 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=1190/0-3-8, (min. 0-1-14), 8=1190/0-3-8, (min. 0-1-14)
 Max Horiz 2=181 (LC 10)
 Max Uplift 2=-174 (LC 11), 8=-174 (LC 11)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-19=-1628/206, 3-19=-1562/247, 3-20=-1482/304, 4-20=-1372/304, 4-5=-1357/324, 5-6=-1357/324, 6-21=-1372/304, 7-21=-1482/304, 7-22=-1562/247, 8-22=-1628/206
 BOT CHORD 2-12=-74/1399, 12-23=0/904, 11-23=0/904, 11-24=0/904, 10-24=0/904, 8-10=-74/1300
 WEBS 5-10=-112/735, 7-10=-414/231, 5-12=-112/735, 3-12=-414/231

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 14-1-8, Exterior (2) 14-1-8 to 17-1-8, Interior (1) 17-1-8 to 29-3-0 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 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 174 lb uplift at joint 2 and 174 lb uplift at joint 8.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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

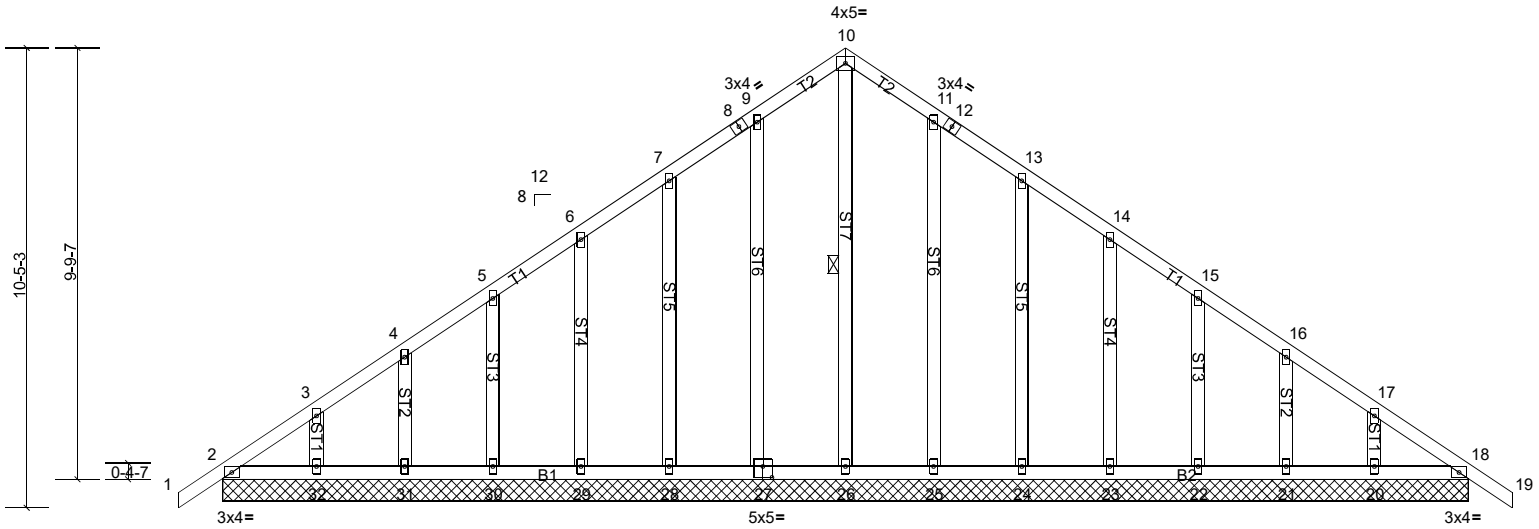
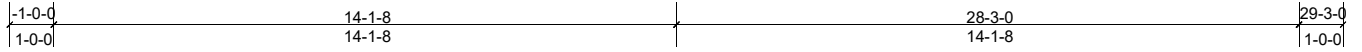
Job Q-1902247-1	Truss T2BGE	Truss Type Common Structural Gable	Qty 1	Ply 1	Tiffany Weaver House-Roof Job Reference (optional)
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28-3-0

Plate Offsets (X, Y): [27:0-2-8,0-3-0]

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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	36	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS								
											Weight: 192 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.
 WEBS 1 Row at midpt 10-26

REACTIONS All bearings 28-3-0.

- (lb) - Max Horiz 2=-181 (LC 9)
- Max Uplift All uplift 100 (lb) or less at joint(s) 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 2
- Max Grav All reactions 250 (lb) or less at joint(s) 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 2, 18

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

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

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=28ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -1-0-0 to 2-1-8, Exterior (2) 2-1-8 to 14-1-8, Corner (3) 14-1-8 to 17-1-8, Exterior (2) 17-1-8 to 29-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20, 2.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 18.
- 10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

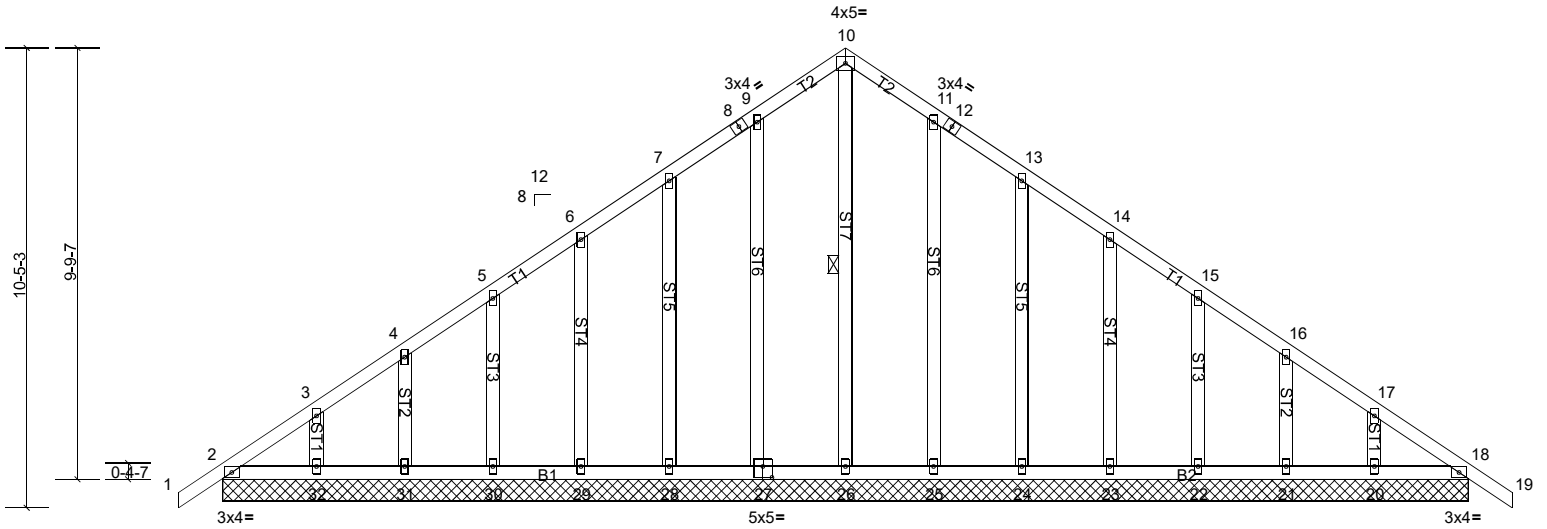
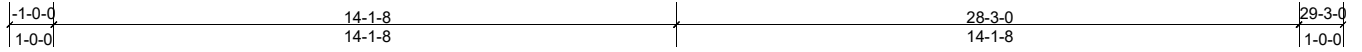
Job Q-1902247-1	Truss T2GE	Truss Type Common Supported Gable	Qty 1	Ply 1	Tiffany Weaver House-Roof Job Reference (optional)
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Scale = 1:52.3

28-3-0

Plate Offsets (X, Y): [27:0-2-8,0-3-0]

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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	36	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS								Weight: 192 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.
 WEBS 1 Row at midpt 10-26

REACTIONS All bearings 28-3-0.

(lb) - Max Horiz 2=181 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s) 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 2
 Max Grav All reactions 250 (lb) or less at joint(s) 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 2, 18

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

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=28ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -1-0-0 to 2-1-8, Exterior (2) 2-1-8 to 14-1-8, Corner (3) 14-1-8 to 17-1-8, Exterior (2) 17-1-8 to 29-3-0 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. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- * 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, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20, 2.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

THIS LAYOUT IS TO BE USED AS A TRUSS PLACEMENT GUIDE ONLY.
PLEASE REFER TO BUILDING PLANS FOR BUILDING CONSTRUCTION AND DETAILS,
SUCH AS PLUMBING OR DUCT DROPS.

PROPOSED DESIGN-
NOT FOR
CONSTRUCTION

Job #

Q-1902247

Tiffany Weaver House
8 Main St
Lillington NC

Notes:
1. Exterior dimensions shown are assumed to be:
 Out-to-out of stud
 Out-to-out of sheathing
 2. Adjust truss locations as needed for plumbing and mechanical clearance. Unless otherwise noted, trusses may be shifted as long as O.C. spacing shown is not exceeded.
 3. Do not cut, drill, or otherwise damage any part of any truss without prior approval from Peak Truss.
 4. Do not approve drawings if any information herein is unclear. Once ordered trusses will be fabricated as approved.
 5. Please contact Peak Truss Builders with any questions. We are available to help any way we can. We can be reached at 919-545-5555 or sales@peaktruss.com

Roof Truss Loading per 2018 NC Residential Code

Top Chord Live Load 20# PSF
 Top Chord Dead Load 10# PSF
 Bottom Chord Live Load 0# PSF
 Bottom Chord Dead Load 10# PSF

Trusses are designed for additional storage load wherever a 42"x24" box will fit between the webs.

△ - This symbol denotes left end of truss as shown on truss drawings
 ● - Approximate location of toilet drop. Builder please confirm.

Truss connections by others:

⊕ - Nailed
 ⊕ - Ledger

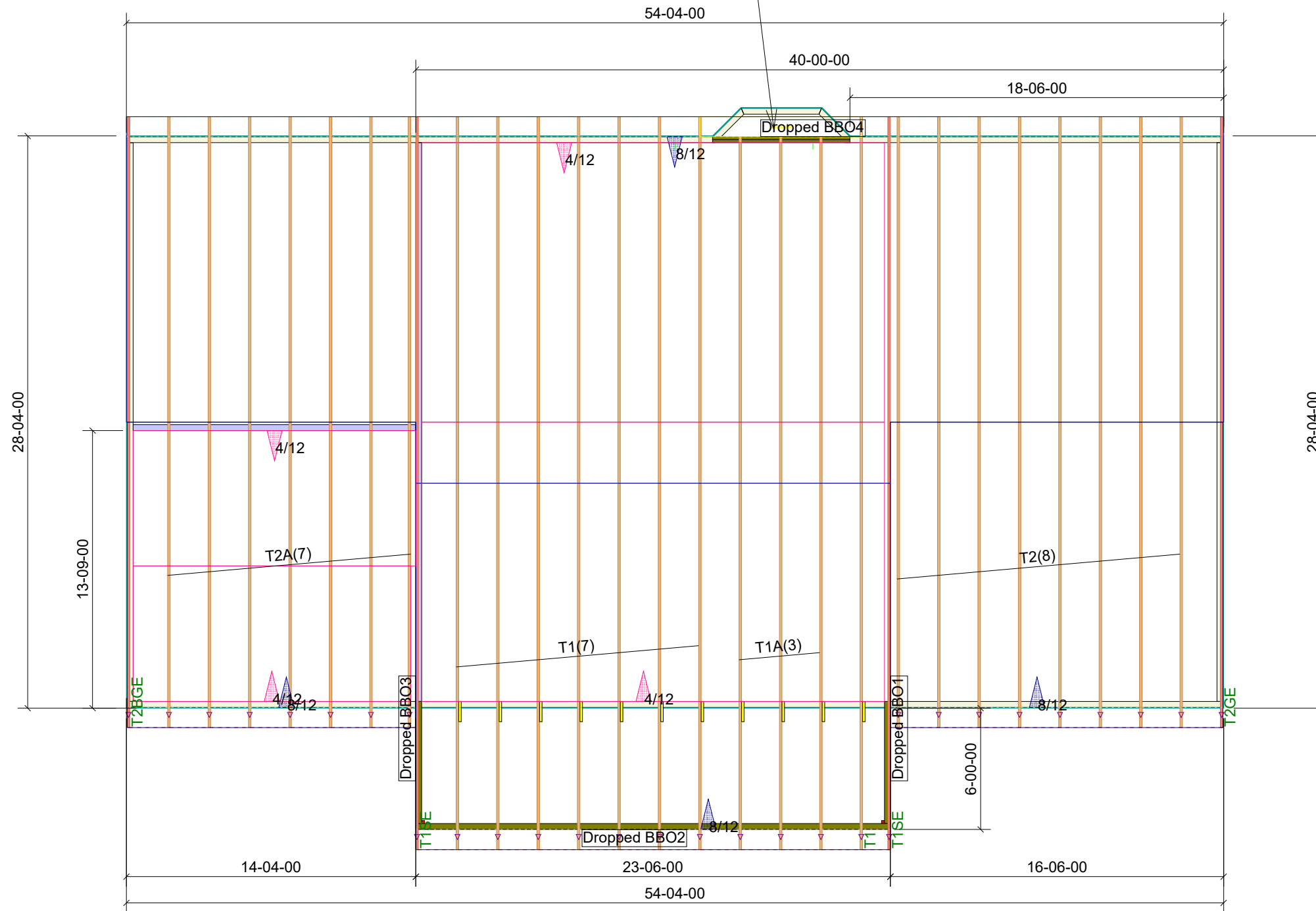
Date Quoted:

Designer:
Devon Thompson

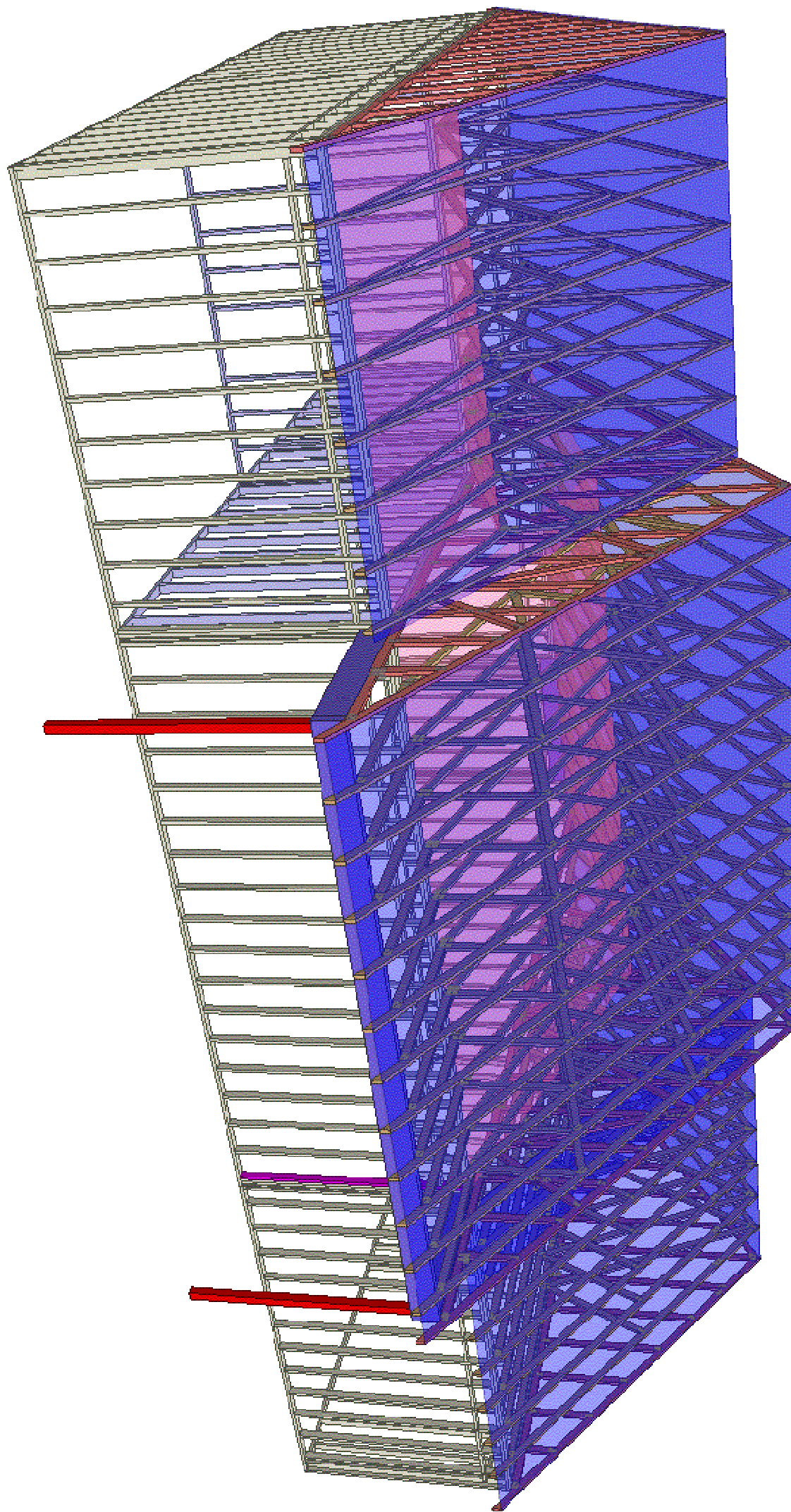
Southeastern Interiors
 228 Airport Rd
 Erwin, NC
 28339

Peak Truss Builders, LLC
 PO Box 340, New Hill, NC 27562

Roof framed by others.



Tiffany Weaver House
 Roof Trusses
 2' OC, 1' Overhang



**Peak Truss
Builders, LLC**

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