

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	A1	PIGGYBACK BASE	4	1	
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:14 2024 Page 1

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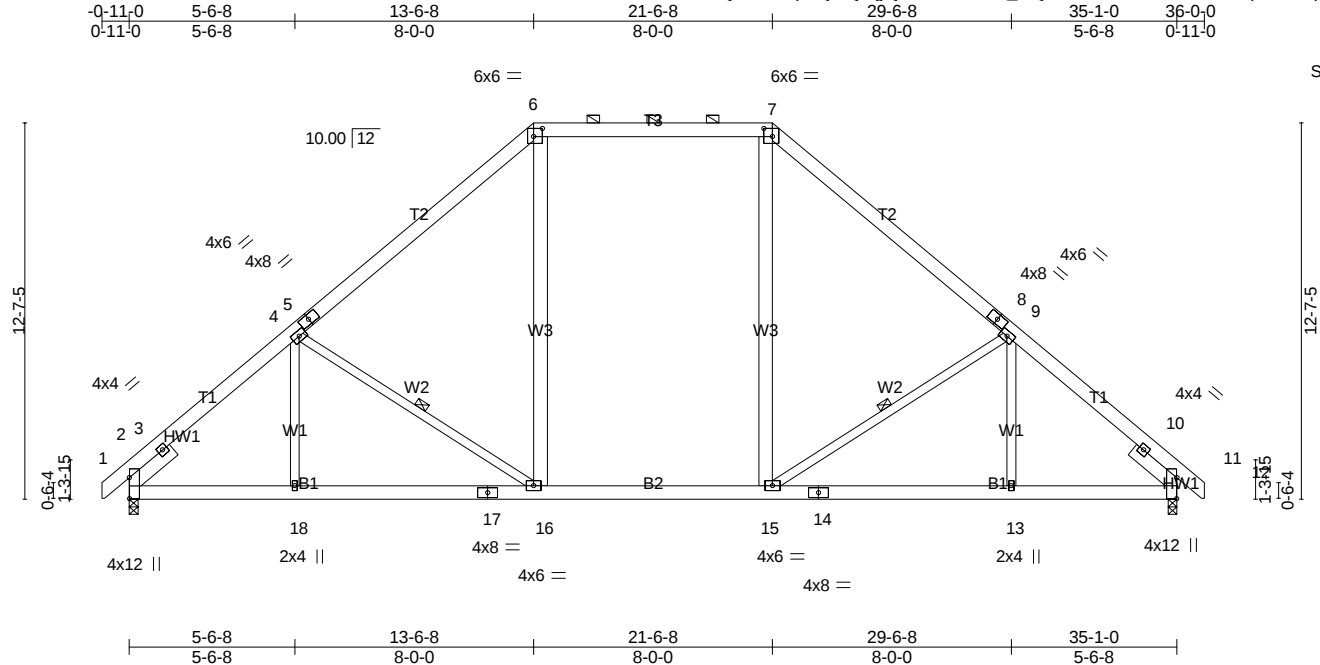


Plate Offsets (X,Y)--	[2:0-8-8,0-0-1], [6:0-3-8,0-3-4], [7:0-3-8,0-3-4], [11:0-8-8,0-0-1]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	-0.21 16-18	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.47	Vert(CT)	-0.27 16-18	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.22	Horz(CT)	0.06 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.25 16-18	>999	240		
								Weight: 296 lb	FT = 25%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied, except
BOT CHORD	2x6 SP No.1		2-0-0 oc purlins (6-0-0 max.): 6-7.
WEBS	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied.
	W3: 2x6 SP No.1	WEBS	1 Row at midpt 4-16, 9-15
SLIDER	Left 2x6 SP No.1 1-11-0, Right 2x6 SP No.1 1-11-0	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS. (lb/size) 2=1456/0-3-8 (min. 0-1-13), 11=1456/0-3-8 (min. 0-1-13)
Max Horz 2=-336(LC 10)
Max Uplift 2=-137(LC 12), 11=-137(LC 13)
Max Grav 2=1556(LC 19), 11=1555(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-460/160, 3-27=-1869/517, 4-27=-1779/551, 4-5=-1578/550, 5-28=-1553/557, 6-28=-1465/613, 6-29=-1166/589, 29-30=-1166/589, 7-30=-1166/589, 7-31=-1465/613, 8-31=-1553/557, 8-9=-1578/550, 9-32=-1779/551, 10-32=-1870/517, 10-11=-460/160
BOT CHORD 2-18=-280/1574, 18-33=-280/1574, 17-33=-280/1574, 16-17=-280/1574, 15-16=-55/1187, 14-15=-291/1335, 14-34=-291/1335, 13-34=-291/1335, 11-13=-291/1335
WEBS 4-16=-528/308, 6-16=-76/555, 7-15=-76/555, 9-15=-528/308

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-10-7 to 3-6-6, Interior(1) 3-6-6 to 13-6-8, Exterior(2) 13-6-8 to 19-9-3, Interior(1) 19-9-3 to 21-6-8, Exterior(2) 21-6-8 to 27-9-3, Interior(1) 27-9-3 to 35-11-7 zone;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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 137 lb uplift at joint 2 and 137 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.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	A1SG	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:15 2024 Page 1

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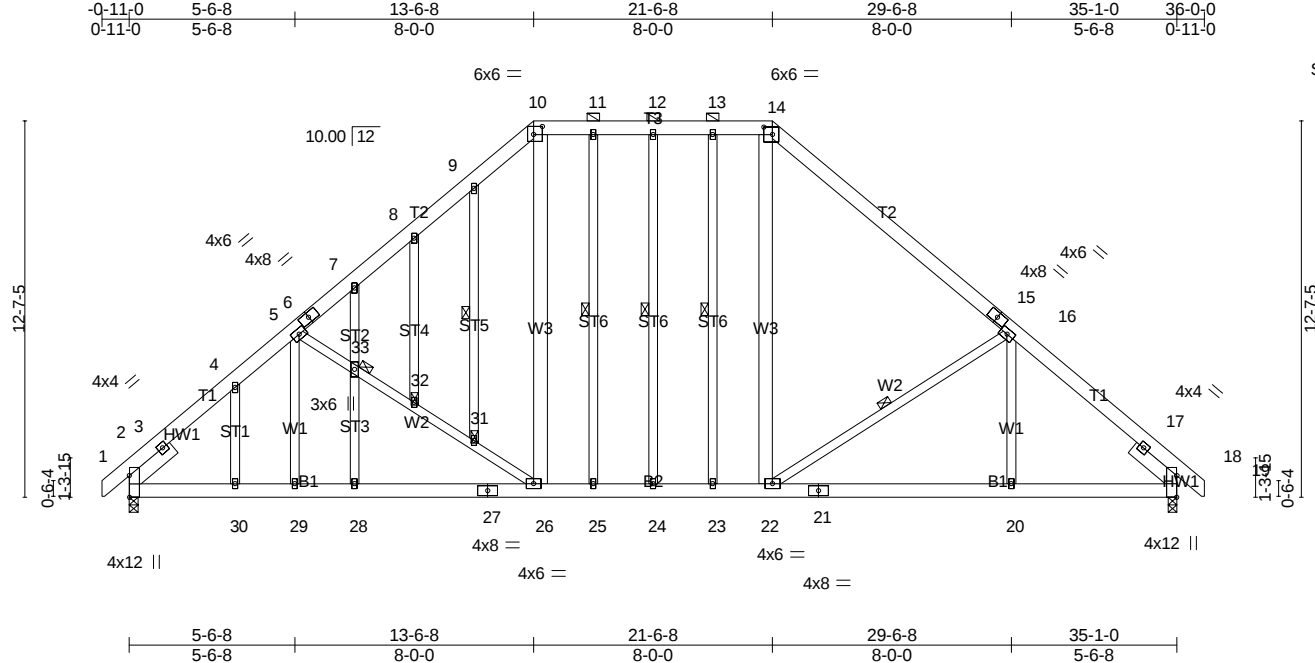


Plate Offsets (X,Y)-- [2:0-8-12,Edge], [10:0-3-8,0-3-4], [14:0-3-8,0-3-0], [18:0-8-12,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	-0.21 26-28	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.42	Vert(CT)	-0.28 26-28	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.25	Horz(CT)	0.05 18	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.30 26-28	>999	240		
Weight: 385 lb									FT = 25%

LUMBER- TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 *Except* W3: 2x6 SP No.1 OTHERS 2x4 SP No.2 SLIDER Left 2x6 SP No.1 1-11-0, Right 2x6 SP No.1 1-11-0	BRACING- TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 10-14. BOT CHORD Rigid ceiling directly applied. WEBS 1 Row at midpt 16-22, 13-23, 12-24, 11-25, 9-31 JOINTS 1 Brace at Jt(s): 31, 32, 33
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS. (lb/size) 2=1456/0-3-8 (min. 0-1-11), 18=1456/0-3-8 (min. 0-1-11)
Max Horz 2=-420(LC 10)
Max Uplift 2=-357(LC 12), 18=-357(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-388/153, 3-4=-1726/639, 4-5=-1634/716, 5-6=-1378/509, 6-7=-1308/523,
7-8=-1350/658, 8-9=-1360/703, 9-10=-1331/720, 10-11=-1169/675, 11-12=-1169/675,
12-13=-1169/675, 13-14=-1169/675, 14-15=-1407/689, 15-16=-1437/626, 16-17=-1707/649,
17-18=-450/183
BOT CHORD 2-30=-474/1338, 29-30=-474/1338, 28-29=-474/1338, 27-28=-474/1338, 26-27=-474/1338,
25-26=-178/998, 24-25=-178/998, 23-24=-178/998, 22-23=-178/998, 21-22=-340/1220,
21-42=-340/1220, 20-42=-340/1220, 18-20=-340/1220
WEBS 5-29=-262/278, 5-33=-527/492, 32-33=-503/459, 31-32=-538/486, 26-31=-535/502,
10-26=-169/469, 14-22=-89/452, 16-22=-585/481

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 357 lb uplift at joint 2 and 357 lb uplift at joint 18.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	A1SG	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:15 2024 Page 2
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NOTES-

11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	A3	PIGGYBACK BASE	6	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:16 2024 Page 1

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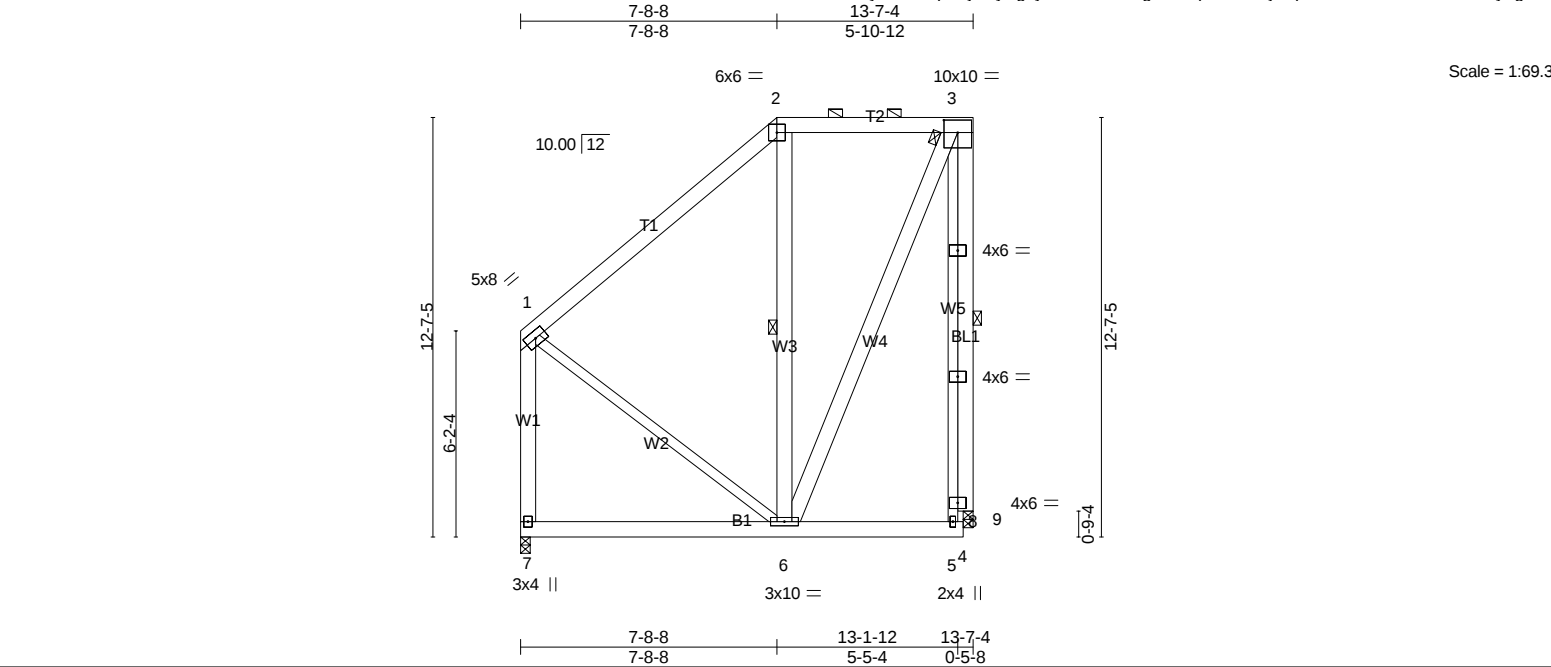


Plate Offsets (X,Y)-- [3:0-5-0,0-4-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.02	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.04	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.01	6	>999	240	Weight: 197 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x6 SP No.1 *Except*	WEBS 1 Row at midpt 2-6, 3-9
W2,W5: 2x4 SP No.2	
OTHERS 2x6 SP No.1	
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS. (lb/size) 7=529/0-3-8 (min. 0-1-8), 9=499/0-3-8 (min. 0-1-8)
Max Horz 7=238(LC 12)
Max Uplift 9=187(LC 12)
Max Grav 7=591(LC 2), 9=584(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-356/0, 1-7=-454/16
BOT CHORD 7-13=-355/327, 6-13=-355/327
WEBS 2-6=-303/321, 3-6=-389/555, 3-9=-602/427

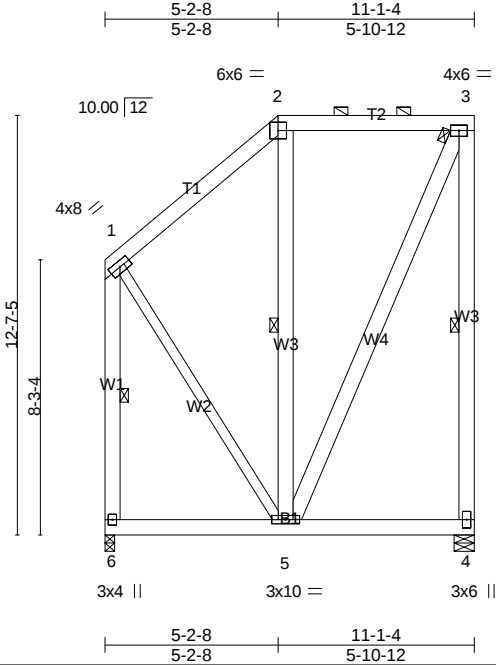
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 7-8-8, Exterior(2) 7-8-8 to 13-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Bearing at joint(s) 9 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 187 lb uplift at joint 9.
 - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	A4	PIGGYBACK BASE	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:17 2024 Page 1
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.01	4-5	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	-0.02	4-5	>999	240	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.57	Horz(CT)	-0.00	4	n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.00	5	>999	240	Weight: 172 lb FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
BOT CHORD 2x6 SP No.1	Rigid ceiling directly applied.
WEBS 2x6 SP No.1 *Except*	1 Row at midpt 3-4, 2-5, 1-6
W2: 2x4 SP No.2	
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 4=426/0-7-4 (min. 0-1-8), 6=426/0-3-8 (min. 0-1-8)
Max Horz 6=159(LC 12)
Max Uplift 4=-166(LC 12)
Max Grav 4=518(LC 2), 6=501(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-466/447, 1-6=-377/0
WEBS 2-5=-258/266, 3-5=-340/413

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 5-2-8, Exterior(2) 5-2-8 to 10-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 4.
 - 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.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	A5	PIGGYBACK BASE	3	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:18 2024 Page 1

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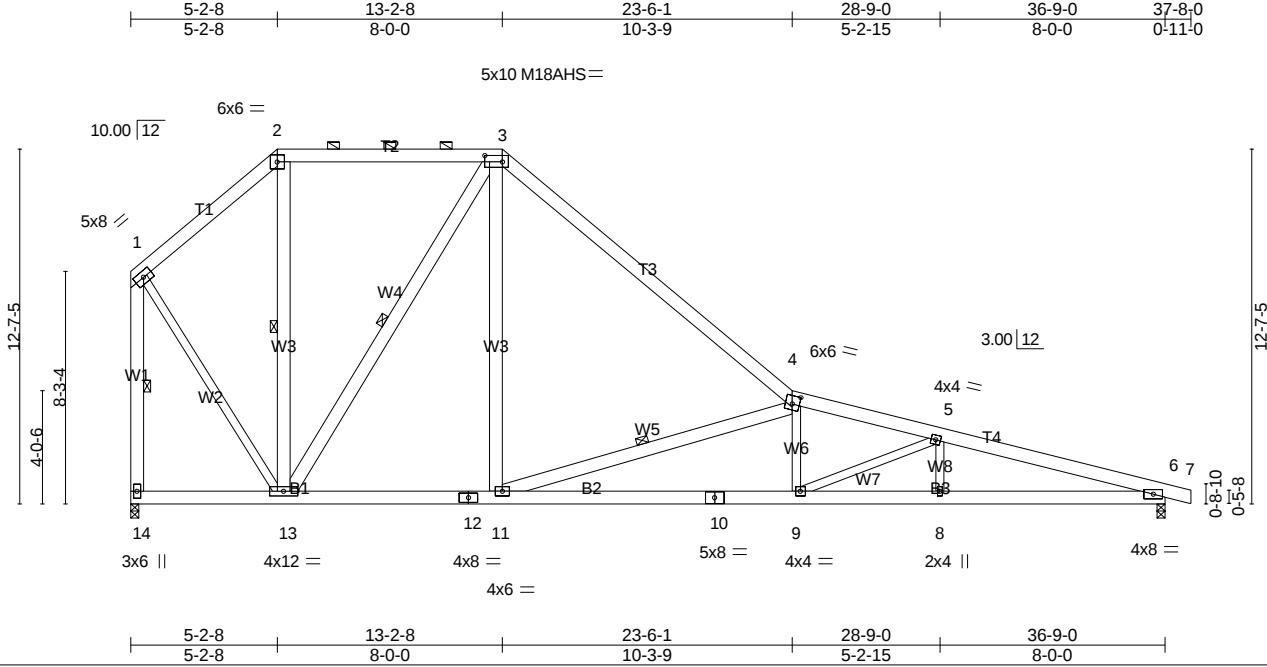


Plate Offsets (X,Y)--	[3:0-7-8,0-2-12], [4:0-3-0,0-3-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.46	Vert(LL)	-0.19	8-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.57	Vert(CT)	-0.40	9-11	>999	240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.08	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.16	9	>999	240	Weight: 346 lb	FT = 25%

LUMBER- TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x6 SP No.1 *Except* W6,W7,W8,W2: 2x4 SP No.2	BRACING- TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3. Rigid ceiling directly applied. BOT CHORD WEBS 1 Row at midpt 2-13, 4-11, 1-14, 3-13
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS. (lb/size) 14=1460/0-3-8 (min. 0-1-13), 6=1515/0-3-8 (min. 0-1-13)
Max Horz 14=-356(LC 13)
Max Uplift14=-152(LC 13), 6=-187(LC 13)
Max Grav 14=1550(LC 2), 6=1515(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-813/311, 18-19=-711/325, 2-19=-686/346, 2-20=-637/359, 20-21=-637/359, 3-21=-637/359, 3-22=-1323/452, 4-22=-1536/412, 4-5=-3697/928, 5-23=-4068/993, 6-23=-4137/982, 1-14=-1434/511
BOT CHORD 14-24=-240/352, 13-24=-240/352, 13-25=0/1060, 12-25=0/1060, 11-12=0/1060, 10-11=-784/3558, 9-10=-784/3558, 8-9=-868/3947, 6-8=-868/3947
WEBS 3-11=-157/1143, 4-11=-2666/851, 4-9=-2/487, 5-9=-415/265, 1-13=-251/1014, 3-13=-958/314

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 5-2-8, Exterior(2) 5-2-8 to 9-7-5, Interior(1) 9-7-5 to 13-2-8, Exterior(2) 13-2-8 to 17-7-5, Interior(1) 17-7-5 to 37-7-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 152 lb uplift at joint 14 and 187 lb uplift at joint 6.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

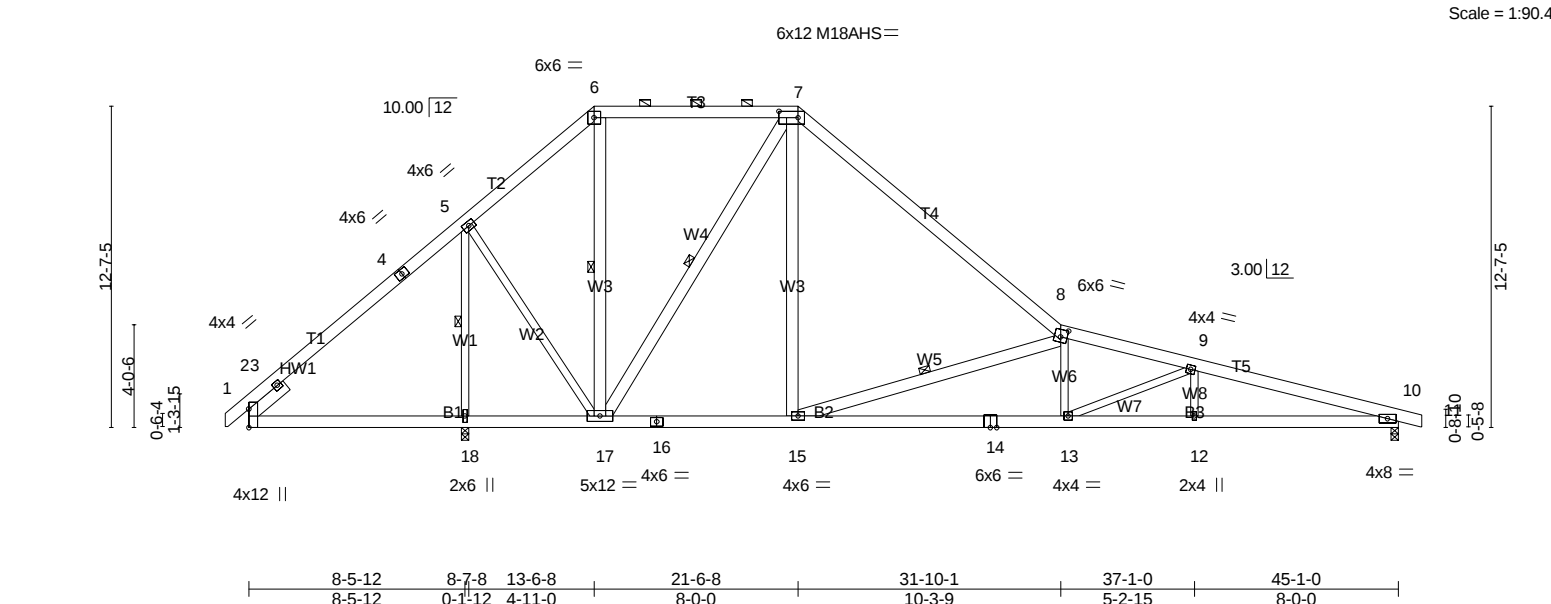
Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	A6	PIGGYBACK BASE	4	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:18 2024 Page 1

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0-11-0	8-5-12	5-0-12	8-0-0	10-3-9	5-2-15	8-0-0	0-11-0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.45	Vert(LL)	-0.19 12-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.53	Vert(CT)	-0.39 13-15	>999	240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81	Horz(CT)	0.07 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.16 13	>999	240	Weight: 391 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (6-0-0 max.): 6-7.
WEBS 2x4 SP No.2 *Except*	Rigid ceiling directly applied.
W3,W4,W5: 2x6 SP No.1	1 Row at midpt 5-18, 6-17, 7-17, 8-15
SLIDER Left 2x6 SP No.1 1-11-0	
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 18=2285/0-3-8 (min. 0-2-15), 10=1427/0-3-8 (min. 0-1-12)
Max Horz 18=-333(LC 10)
Max Uplift18=-186(LC 12), 10=-207(LC 13)
Max Grav18=2488(LC 2), 10=1461(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-218/293, 3-26=-418/439, 4-26=-400/442, 4-5=-369/628, 5-27=-696/224, 6-27=-689/260, 6-28=-547/255, 28-29=-547/255, 7-29=-547/255, 7-30=-1179/374, 8-30=-1401/334, 8-9=-3490/805, 9-31=-3883/888, 10-31=-3950/875
BOT CHORD 2-32=-435/500, 18-32=-435/500, 18-33=-406/480, 17-33=-406/480, 16-17=0/949, 16-34=0/949, 15-34=0/949, 14-15=-638/3356, 13-14=-638/3356, 12-13=-765/3767, 10-12=-765/3767
WEBS 5-18=-2015/884, 5-17=-242/1174, 7-17=-1084/410, 7-15=-148/1118, 8-15=-2561/781, 8-13=-0/492, 9-13=-447/258

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-7 to 3-7-10, Interior(1) 3-7-10 to 13-6-8, Exterior(2) 13-6-8 to 18-0-10, Interior(1) 18-0-10 to 21-6-8, Exterior(2) 21-6-8 to 26-0-10, Interior(1) 26-0-10 to 45-11-11 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 186 lb uplift at joint 18 and 207 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.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	A7	PIGGYBACK BASE	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:19 2024 Page 1

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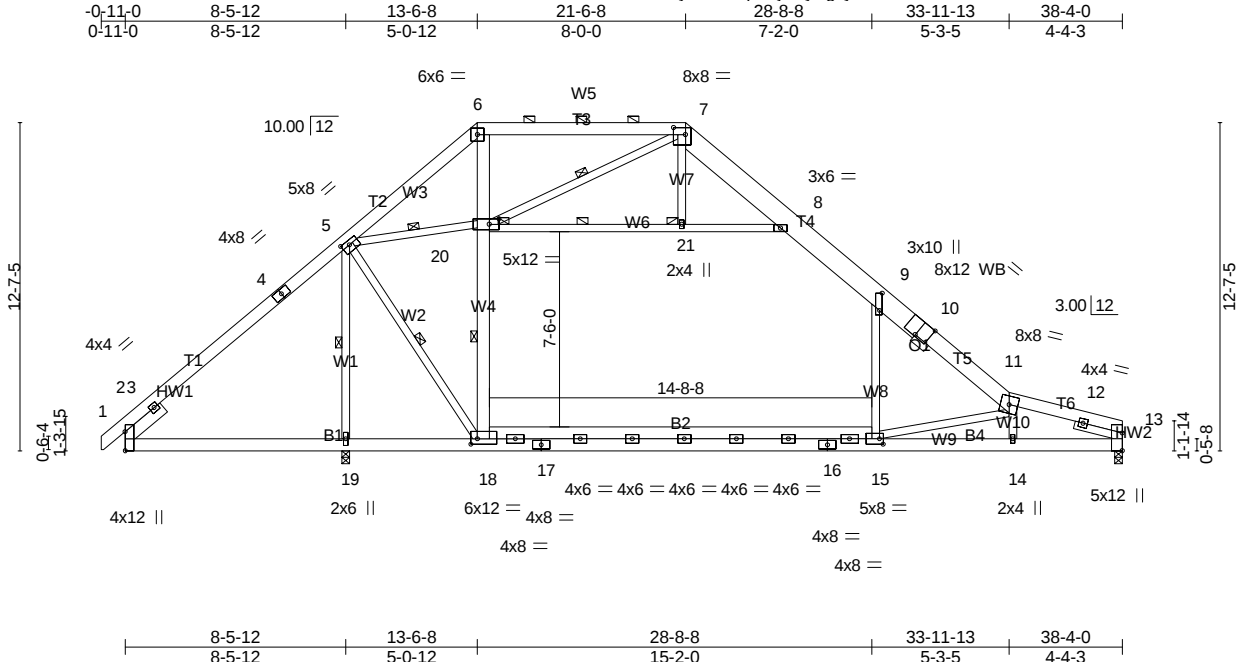


Plate Offsets (X,Y)--	[2:0-8-12,Edge], [5:0-3-10,0-2-0], [7:0-5-8,0-3-4], [9:0-7-15,0-1-4], [10:0-6-0,Edge], [15:0-1-12,0-2-8], [18:0-3-0,0-2-8], [20:0-4-8,0-2-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.72	Vert(LL)	-0.39 15-18	>913	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.62 15-18	>574	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.02 13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.20 15	>999	240		
Weight: 378 lb									FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* T4: 2x10 SP 2400F 2.0E, T5: 2x8 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (10-0-0 max.): 6-7.
BOT CHORD 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except* W4: 2x6 SP No.1	WEBS 1 Row at midpt 5-19, 5-18, 18-20, 20-21, 7-20, 5-20
OTHERS 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 20, 21
SLIDER Left 2x6 SP No.1 1-11-0, Right 2x4 SP No.2 1-11-0	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 13=1082/0-3-8 (min. 0-1-8), 19=2037/0-3-8 (min. 0-2-1)
Max Horz 19=-324(LC 10)
Max Uplift 13=-131(LC 13), 19=-182(LC 12)
Max Grav 13=1259(LC 26), 19=2501(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-264/355, 3-30=-409/442, 4-30=-391/452, 4-5=-359/633, 5-31=-734/1668,
6-31=-729/1815, 6-32=-538/1470, 32-33=-538/1470, 7-33=-538/1470, 7-8=-68/523,
8-34=-931/324, 9-34=-1037/322, 9-10=-1703/295, 10-11=-1830/287, 11-12=-2552/587,
12-13=-631/107
BOT CHORD 2-35=-441/497, 19-35=-441/497, 19-36=-479/453, 18-36=-479/453, 17-18=-40/1172,
16-17=-32/1219, 15-16=-43/1170, 14-15=-522/2441, 13-14=-518/2415
WEBS 5-19=-2174/806, 5-18=-782/2848, 18-20=-1614/867, 6-20=-1338/660, 9-15=0/1074,
11-15=-1340/519, 11-14=-311/46, 20-21=-1678/462, 8-21=-1681/463, 7-20=-1144/669,
5-20=-2591/997

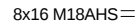
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-10-7 to 3-6-6, Interior(1) 3-6-6 to 13-6-8, Exterior(2) 13-6-8 to 17-11-5, Interior(1) 17-11-5 to 21-6-8, Exterior(2) 21-6-8 to 25-11-5, Interior(1) 25-11-5 to 38-4-0 zone; cantilever left 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 131 lb uplift at joint 13 and 182 lb uplift at joint 19.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	A7	PIGGYBACK BASE	2	1	Job Reference (optional)

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	A7SG	GABLE	1	1	Job Reference (optional)

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:20 2024 Page 1
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The diagram illustrates a roof truss system with the following components:

- Members:** Labeled with numbers 1 through 37. Members include top chords (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20), verticals (e.g., 21, 22, 23, 24, 25, 26, 27, 28, 29, 30), and diagonals (e.g., 31, 32, 33, 34, 35, 36, 37).
- Joints:** Labeled with letters T (Top Chord), W (Web), and B (Bottom Chord). Examples include T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T11, T12, T13, T14, T15, T16, T17, T18, T19, T20, T21, T22, T23, T24, T25, T26, T27, T28, T29, T30, T31, T32, T33, T34, T35, T36, T37, T38, T39, T40, T41, T42, T43, T44, T45, T46, T47, T48, T49, T50, T51, T52, T53, T54, T55, T56, T57, T58, T59, T60, T61, T62, T63, T64, T65, T66, T67, T68, T69, T70, T71, T72, T73, T74, T75, T76, T77, T78, T79, T80, T81, T82, T83, T84, T85, T86, T87, T88, T89, T90, T91, T92, T93, T94, T95, T96, T97, T98, T99, T100.
- Supports:** Indicated by symbols at the base of the truss, including a pin support at joint T1 and a roller support at joint T20.
- Dimensions:** Various dimensions are provided, such as 12'-7.5" for the overall height, 10'-0" for the width, and 1'-1.14" for the base width.
- Labels:** The diagram includes labels for members (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37) and joints (e.g., T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T11, T12, T13, T14, T15, T16, T17, T18, T19, T20, T21, T22, T23, T24, T25, T26, T27, T28, T29, T30, T31, T32, T33, T34, T35, T36, T37, T38, T39, T40, T41, T42, T43, T44, T45, T46, T47, T48, T49, T50, T51, T52, T53, T54, T55, T56, T57, T58, T59, T60, T61, T62, T63, T64, T65, T66, T67, T68, T69, T70, T71, T72, T73, T74, T75, T76, T77, T78, T79, T80, T81, T82, T83, T84, T85, T86, T87, T88, T89, T90, T91, T92, T93, T94, T95, T96, T97, T98, T99, T100).

Plate Offsets (X,Y)--	[2:0-8-12,Edge],	[14:1-1-8,0-3-4],	[16:0-7-15,0-1-4],	[17:0-6-0,Edge],	[22:0-2-0,0-2-8],	[25:0-2-12,0-2-8],	[31:0-4-8,0-2-8]
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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.72	Vert(LL) -0.38 22-25 >939 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.48	Vert(CT) -0.61 22-25 >590 240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr YES	WB 0.87	Horz(CT) 0.02 20 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.28 21-22 >999 240	Weight: 436 lb	FT = 25%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1 *Except* T4: 2x10 SP 2400F 2.0E, T5: 2x8 SP No.1	TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (10-0-0 max.): 10-14.
BOT CHORD	2x6 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.2 *Except* W4: 2x6 SP No.1	WEBS	1 Row at midpt 8-27, 25-31
OTHERS	2x4 SP No.2	JOINTS	1 Brace at Jt(s): 31, 32, 34, 35, 36, 39, 40
SLIDER	Left 2x6 SP No.1 1-11-0, Right 2x4 SP No.2 1-11-0		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 20=1082/0-3-8 (min. 0-1-8), 27=2037/0-3-8 (min. 0-1-13)
Max Horz 27=-409(LC 10)
Max Uplift 20=-317(LC 13), 27=-485(LC 12)
Max Grav 20=1270(LC 26), 27=2166(LC 2)

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

TOP CHORD 3-4=-246/511, 4-5=-133/494, 5-6=-71/516, 6-7=-57/585, 7-8=0/402, 8-9=-765/1859,
9-10=-683/1718, 10-11=-530/1466, 11-12=-530/1466, 12-13=-530/1466, 13-14=-530/1466,
14-15=-142/545, 15-16=-1064/495, 16-17=-1723/487, 17-18=-1850/477, 18-19=-2577/844,
19-20=-634/164

BOT CHORD 2-30=-468/334, 29-30=-468/334, 28-29=-468/334, 27-28=-468/334, 26-27=-464/378,
25-26=-464/378, 24-25=-162/1189, 23-24=-155/1236, 22-23=-167/1189, 21-22=-768/2465,
20-21=-762/2439

WEBS 8-27=-1249/293, 8-41=-752/2733, 40-41=-785/2826, 25-40=-759/2744, 25-31=-1473/766,
10-31=-1080/559, 16-22=-31/1066, 18-22=-1319/649, 18-21=-309/73, 31-38=-1670/666,
36-38=-1670/666, 33-36=-1670/666, 32-33=-1670/666, 15-32=-1675/668, 31-37=-1134/599,
35-37=-1117/591, 34-35=-1117/584, 14-34=-1138/598, 8-42=-2571/1131, 39-42=-2604/1141,
31-39=-2580/1133, 9-39=-321/126, 41-42=-444/181, 26-41=-582/221, 7-28=-386/145

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	A7SG	GABLE	1	1	Job Reference (optional)

- NOTES-**
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 317 lb uplift at joint 20 and 485 lb uplift at joint 27.
 - 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	B1	ROOF SPECIAL	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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6-4-8

13-4-8

20-4-8

25-7-13

31-9-0

32-8-0

0-11-0

6-4-8

7-0-0

7-0-0

5-3-5

6-1-3

0-11-0

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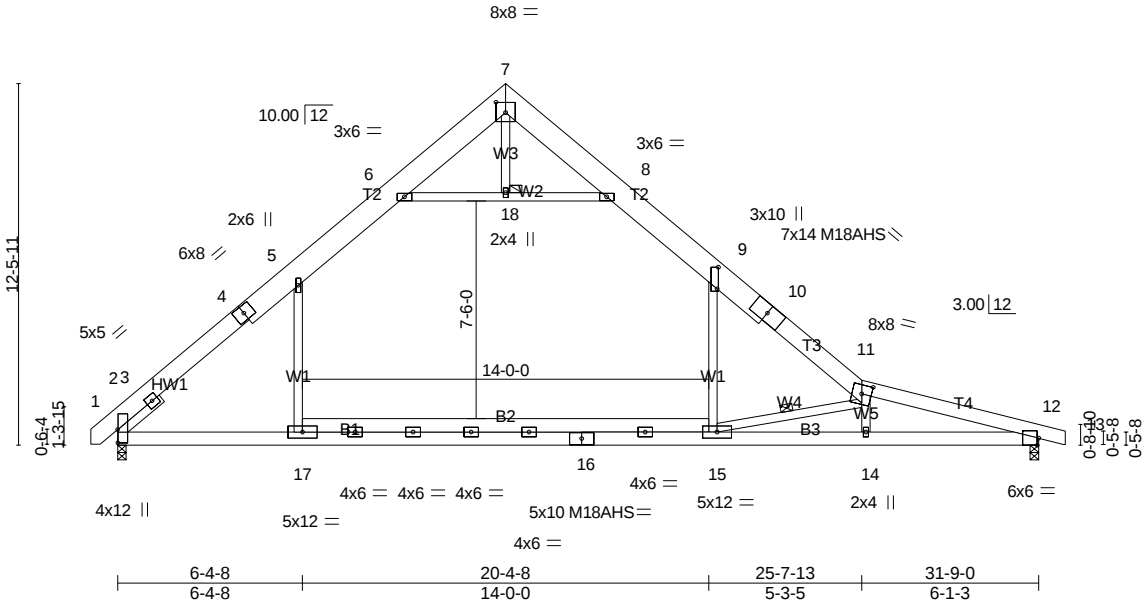


Plate Offsets (X,Y)-- [2:0-5-8,0-0-2], [7:0-4-0,0-4-4], [9:0-8-15,0-0-8], [11:0-4-0,0-3-12], [12:0-0-9,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.87	Vert(LL)	-0.44 15-17	>859	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.61	Vert(CT)	-0.74 15-17	>516	240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.43	Horz(CT)	0.04 12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.31 14-15	>999	240	Weight: 296 lb	FT = 25%

LUMBER-
TOP CHORD 2x10 SP 2400F 2.0E *Except*
T4: 2x6 SP No.1, T1,T3: 2x8 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 1-11-0

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 11-15
JOINTS 1 Brace at Jt(s): 18

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

REACTIONS. (lb/size) 2=1315/0-3-8 (min. 0-1-8), 12=1324/0-3-8 (min. 0-1-8)
Max Horz 2=-322(LC 10)
Max Uplift 2=-129(LC 12), 12=-166(LC 13)
Max Grav 2=1572(LC 19), 12=1427(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-578/153, 3-26=-2204/431, 4-26=-2119/433, 4-5=-2054/448, 5-27=-1518/524, 6-27=-1421/527, 7-8=-41/350, 8-28=-1259/487, 9-28=-1355/464, 9-10=-2194/510, 10-11=-2320/501, 11-29=-3960/981, 12-29=-4002/967
BOT CHORD 2-17=-157/1585, 16-17=-156/1599, 15-16=-160/1590, 14-15=-874/3848, 12-14=-871/3842
WEBS 5-17=0/881, 9-15=-82/1331, 11-15=-2630/763, 6-18=-1855/628, 8-18=-1855/628

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-9-1 to 3-7-11, Interior(1) 3-7-11 to 13-4-8, Exterior(2) 13-4-8 to 17-9-5, Interior(1) 17-9-5 to 32-7-11 zone;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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 129 lb uplift at joint 2 and 166 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.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

-0-11-0

13-4-8

25-7-13

31-9-0

32-8-0

0-11-0

13-4-8

12-3-5

6-1-3

0-11-0

5x5 =

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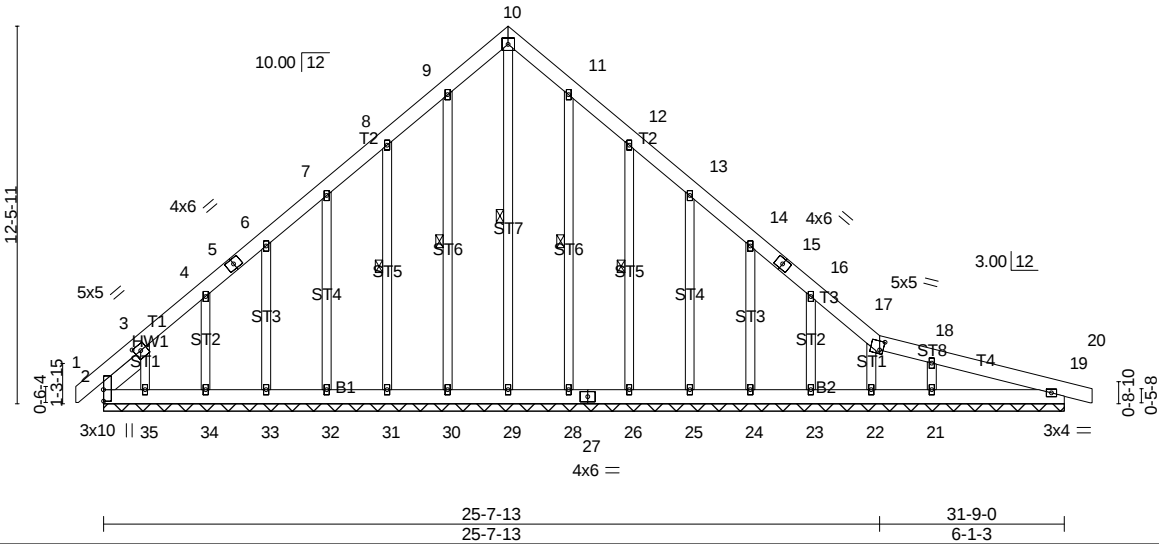


Plate Offsets (X,Y)--

[2:0-4-8,0-0-1], [3:0-2-8,0-2-4], [17:0-1-5,0-3-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	0.00	20	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	0.00	20	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(CT)	0.01	19	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 298 lb	FT = 25%

LUMBER-

TOP CHORD 2x6 SP No.1

BOT CHORD 2x6 SP No.1

OTHERS 2x4 SP No.2

SLIDER Left 2x6 SP No.1 1-9-5

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

1 Row at midpt 10-29, 9-30, 8-31, 11-28, 12-26

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

REACTIONS. All bearings 31-9-0.
(lb) - Max Horz 2=-333(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 19, 30, 31, 32, 33, 34, 28, 26, 25, 24, 23, 22, 21 except 2=-218(LC 10), 35=-216(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 19, 29, 30, 31, 32, 33, 34, 35, 28, 26, 25, 24, 23, 22 except 2=332(LC 9), 21=341(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-422/359, 3-4=-264/236, 8-9=-233/281, 9-10=-287/348, 10-11=-287/348, 11-12=-233/281, 18-36=-289/214, 19-36=-303/199
BOT CHORD 2-35=-205/334, 34-35=-205/334, 33-34=-205/334, 32-33=-205/334, 31-32=-205/334, 30-31=-205/334, 29-30=-205/334, 28-29=-205/334, 27-28=-205/334, 26-27=-205/334, 25-26=-205/334, 24-25=-205/334, 23-24=-205/334, 22-23=-205/334, 21-22=-204/341, 19-21=-204/341
WEBS 10-29=-299/185, 3-35=-278/254, 18-21=-240/291

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -0-10-7 to 3-4-8, Exterior(2) 3-4-8 to 13-4-8, Corner(3) 13-4-8 to 17-9-5, Exterior(2) 17-9-5 to 32-7-11 zone;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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 19, 30, 31, 32, 33, 34, 28, 26, 25, 24, 23, 22, 21 except (jt=lb) 2=218, 35=216.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	B2	ROOF SPECIAL	6	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:23 2024 Page 1

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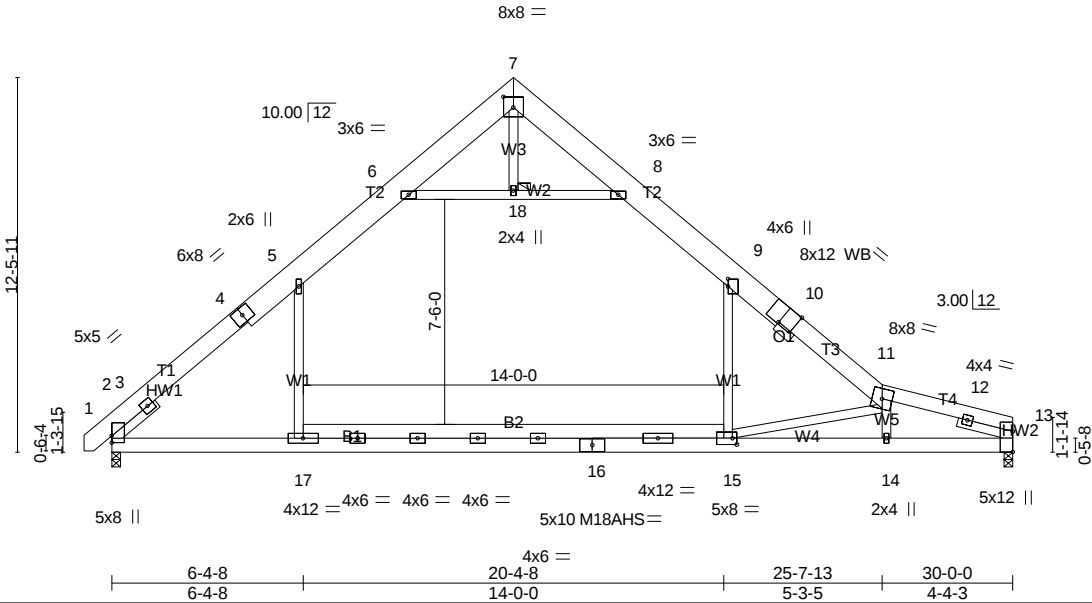


Plate Offsets (X,Y)-- [7:0-4-0,0-4-4], [9:0-3-0,0-0-0], [10:0-6-0,Edge], [15:0-1-12,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.73	Vert(LL)	-0.35 15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.52	Vert(CT)	-0.55 15-17	>652	240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.74	Horz(CT)	-0.02 2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.22 14-15	>999	240	Weight: 290 lb	FT = 25%

LUMBER-
TOP CHORD 2x10 SP 2400F 2.0E *Except*
T4: 2x6 SP No.1, T1,T3: 2x8 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 1-11-0, Right 2x4 SP No.2 1-11-0

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
JOINTS 1 Brace at Jt(s): 18

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

REACTIONS. (lb/size) 13=1199/0-3-8 (min. 0-1-8), 2=1246/0-3-8 (min. 0-1-8)
Max Horz 2=-313(LC 10)
Max Uplift13=-134(LC 13), 2=-125(LC 12)
Max Grav13=1336(LC 2), 2=1497(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-554/147, 3-27=-2039/394, 4-27=-1932/395, 4-5=-1889/411, 5-28=-1388/494,
6-28=-1292/497, 7-8=-45/290, 8-29=-1186/473, 9-29=-1283/450, 9-10=-1945/461,
10-11=-2070/452, 11-12=-2759/735, 12-13=-662/144
BOT CHORD 2-17=-168/1446, 16-17=-167/1458, 15-16=-171/1449, 14-15=-666/2642, 13-14=-659/2621
WEBS 5-17=0/839, 9-15=-24/1042, 6-18=-1673/592, 8-18=-1673/592, 11-15=-1506/529,
11-14=-364/88

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-11, Interior(1) 3-7-11 to 13-4-8, Exterior(2) 13-4-8 to 17-9-5, Interior(1) 17-9-5 to 30-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=134, 2=125.
 - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

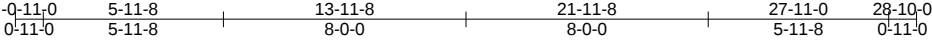
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	C1	COMMON	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:23 2024 Page 1

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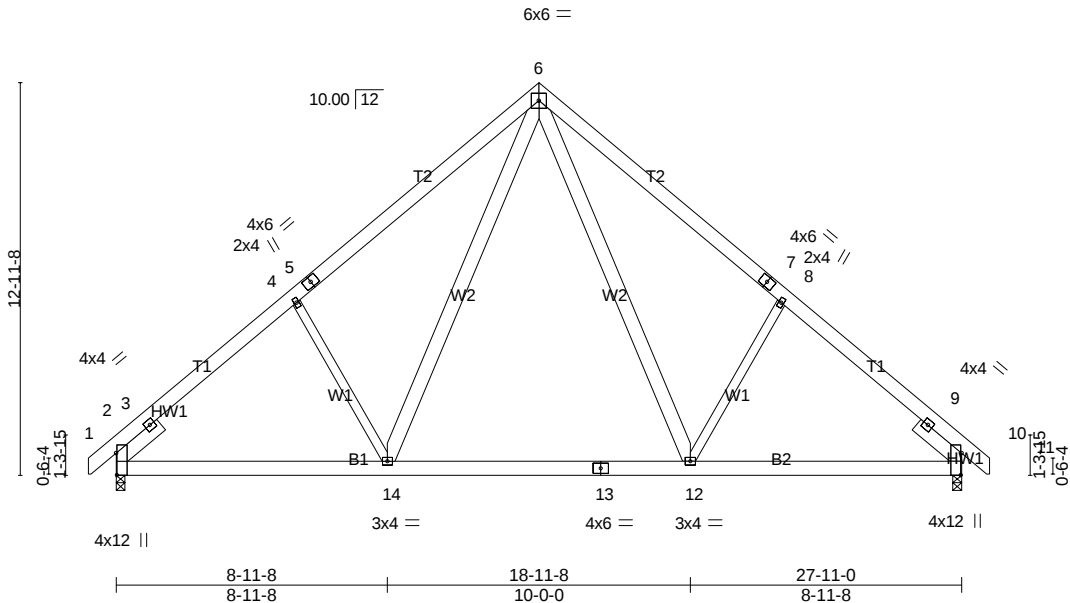


Plate Offsets (X,Y)--	[2:0-8-12,Edge], [10:0-8-12,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	-0.15 12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.42	Vert(CT)	-0.23 12-14	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.36	Horz(CT)	0.04 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.03 12-14	>999	240		
								Weight: 245 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x6 SP No.1 *Except*	
W1: 2x4 SP No.2	
SLIDER Left 2x6 SP No.1 1-11-0, Right 2x6 SP No.1 1-11-0	

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

REACTIONS. (lb/size) 2=1169/0-3-8 (min. 0-1-10), 10=1169/0-3-8 (min. 0-1-10)
Max Horz 2=-344(LC 10)
Max Uplift 2=-121(LC 12), 10=-121(LC 13)
Max Grav 2=1352(LC 19), 10=1352(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-396/35, 3-23=-1549/389, 4-23=-1468/426, 4-5=-1454/492, 5-24=-1435/521, 6-24=-1332/554, 6-25=-1332/554, 7-25=-1436/521, 7-8=-1454/492, 8-26=-1468/426, 9-26=-1549/389, 9-10=-397/35
BOT CHORD 2-27=-188/1334, 27-28=-188/1334, 14-28=-188/1334, 14-29=0/879, 13-29=0/879, 13-30=0/879, 12-30=0/879, 12-31=-167/1128, 31-32=-167/1128, 10-32=-167/1128
WEBS 6-12=-204/776, 8-12=-473/355, 6-14=-204/776, 4-14=-473/355

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-7 to 3-6-6, Interior(1) 3-6-6 to 13-11-8, Exterior(2) 13-11-8 to 18-4-5, Interior(1) 18-4-5 to 28-9-7 zone;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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) except (jt=lb) 2=121, 10=121.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	C1GE	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:24 2024 Page 1

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13-11-8

27-11-0

28-10-0

0-11-0

13-11-8

13-11-8

0-11-0

5x5 =

Scale = 1:76.5

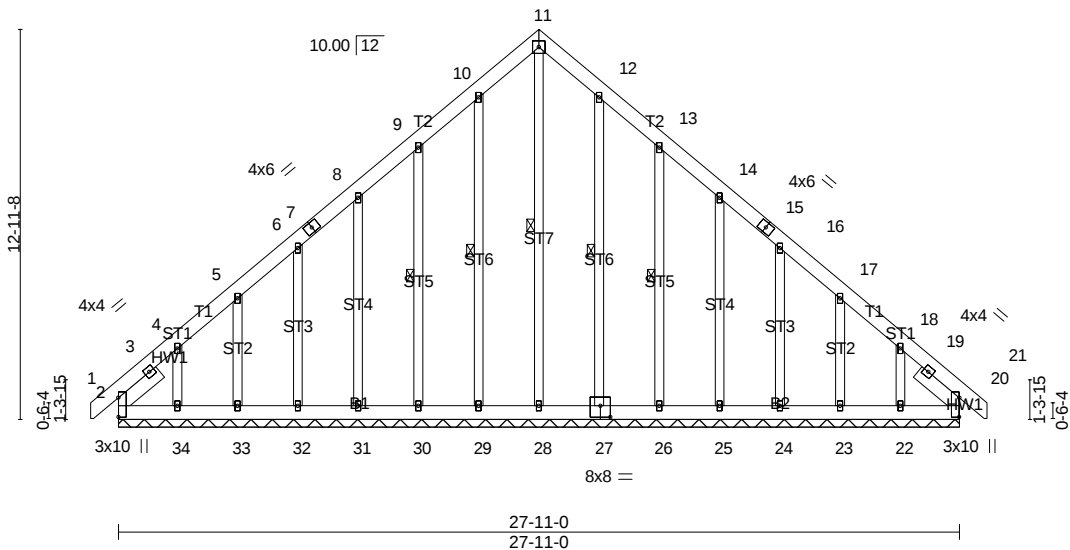


Plate Offsets (X,Y)--

[2:0-7-12,0-0-1], [20:0-7-12,0-0-1], [27:0-4-0,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00	20	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	20	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(CT)	0.01	20	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							
										Weight: 294 lb FT = 25%

LUMBER-

TOP CHORD 2x6 SP No.1

BOT CHORD 2x6 SP No.1

OTHERS 2x4 SP No.2

SLIDER Left 2x6 SP No.1 1-9-7, Right 2x6 SP No.1 1-9-7

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

1 Row at midpt 11-28, 10-29, 9-30, 12-27, 13-26

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

REACTIONS. All bearings 27-11-0.
(lb) - Max Horz 2=-431(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 28, 29, 27 except 2=-224(LC 10),
20=-119(LC 11), 30=-155(LC 12), 31=-136(LC 12), 32=-138(LC 12), 33=-112(LC 12),
34=-349(LC 12), 26=-159(LC 13), 25=-137(LC 13), 24=-138(LC 13), 23=-115(LC 13),
22=-321(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 29, 30, 31, 32, 33, 27, 26, 25, 24,
23, 22 except 2=424(LC 12), 20=354(LC 13), 28=302(LC 13), 34=279(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-583/369, 3-4=-558/372, 4-5=-337/262, 5-6=-259/225, 9-10=-258/300, 10-11=-308/338,
11-12=-308/338, 12-13=-258/271, 17-18=-267/157, 18-19=-473/307, 19-20=-497/308
BOT CHORD 2-34=-247/378, 33-34=-247/378, 32-33=-247/378, 31-32=-247/378, 30-31=-247/378,
29-30=-247/378, 28-29=-247/378, 27-28=-247/378, 26-27=-247/379, 25-26=-247/379,
24-25=-247/379, 23-24=-247/379, 22-23=-247/379, 20-22=-247/378
WEBS 11-28=-287/207, 4-34=-292/335, 18-22=-292/311

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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, 29, 27 except (jt=lb) 2=224, 20=119, 30=155, 31=136, 32=138, 33=112, 34=349, 26=159, 25=137, 24=138, 23=115, 22=321.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

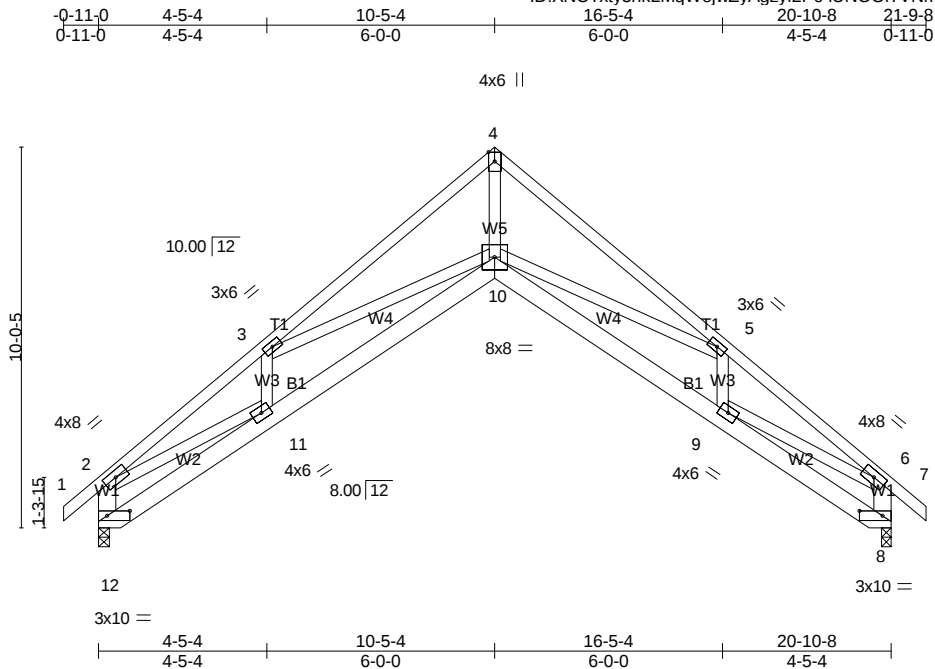
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	D1	SCISSORS	4	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:25 2024 Page 1

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Scale = 1:60.7

Plate Offsets (X,Y)-- [8:0-7-4,0-1-8], [12:0-7-4,0-1-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.11	10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.22	10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.31	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.18	9-10	>999	240	Weight: 150 lb	FT = 25%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
W1: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

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

REACTIONS.

(lb/size) 12=885/0-3-8 (min. 0-1-8), 8=885/0-3-0 (min. 0-1-8)
Max Horz 12=263(LC 11)
Max Uplift 12=-162(LC 9), 8=-162(LC 8)

FORCES.

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

TOP CHORD 2-13=-1929/2060, 3-13=-1788/2088, 3-14=-1975/1195, 4-14=-1859/1229, 4-15=-1859/1205,
5-15=-1975/1172, 5-16=-1788/2076, 6-16=-1929/2070, 2-12=-884/1012, 6-8=-884/990

BOT CHORD 11-12=-304/408, 10-11=-1351/1747, 9-10=-1375/1691

WEBS 4-10=-1307/2008, 5-10=-207/946, 5-9=-406/81, 3-10=-176/967, 3-11=-403/116,
2-11=-1355/1399, 6-9=-1402/1399

NOTES-

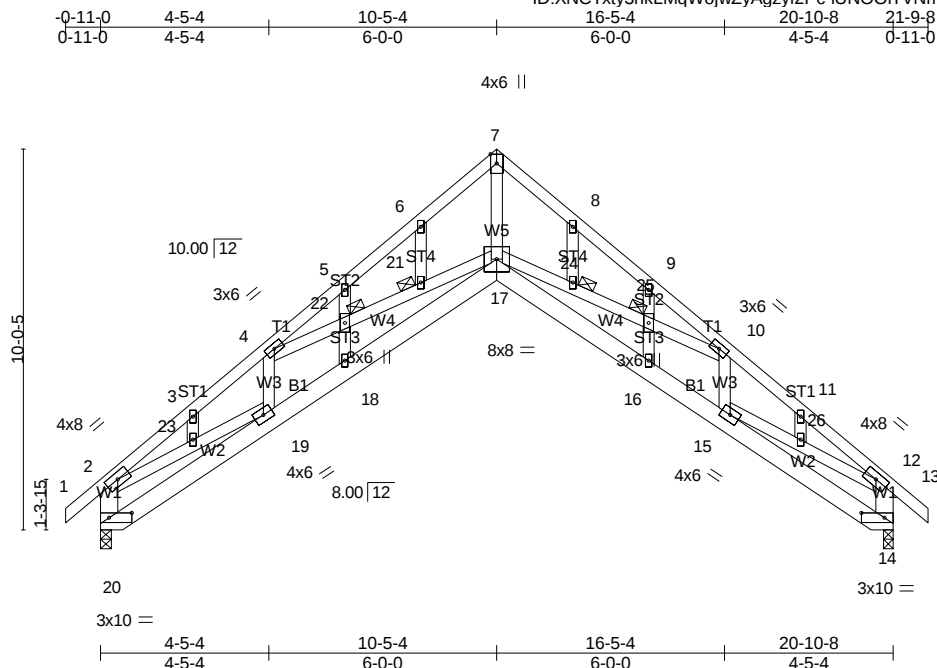
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-11-0 to 3-5-13, Interior(1) 3-5-13 to 10-5-4, Exterior(2) 10-5-4 to 14-10-1, Interior(1) 14-10-1 to 21-9-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 12, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=162, 8=162.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	D1SG	GABLE	1	1	Job Reference (optional)

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:25 2024 Page 1

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Scale = 1:60.7

Plate Offsets (X,Y)-- [14:0-7-4,0-1-8], [20:0-7-4,0-1-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.15		TC 0.40		Vert(LL) -0.11 17 >999 360		MT20	244/190
TCDL 10.0		Lumber DOL 1.15		BC 0.32		Vert(CT) -0.22 16-17 >999 240			
BCLL 0.0 *		Rep Stress Incr YES		WB 0.52		Horz(CT) 0.32 14 n/a n/a			
BCDL 10.0		Code IRC2015/TPI2014		Matrix-AS		Wind(LL) 0.19 17-18 >999 240		Weight: 163 lb	FT = 25%

LUMBER-

TOP CHORD	2x4 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except*
	W1: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
JOINTS	1 Brace at Jt(s): 21, 22, 24, 25

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

REACTIONS.

(lb/size) 20=885/0-3-8 (min. 0-1-8), 14=885/0-3-0 (min. 0-1-8)
Max Horz 20=329(LC 11)
Max Uplift 20=-235(LC 12), 14=-235(LC 13)

FORCES

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

TOP CHORD 2-3=-1948/2187, 3-4=-1846/2183, 4-5=-1916/1198, 5-6=-1902/1241, 6-7=-1847/1345,
7-8=-1847/1345, 8-9=-1902/1241, 9-10=-1916/1198, 10-11=-1846/2182, 11-12=-1948/2185,
2-20=-919/1073, 12-14=-919/1050
BOT CHORD 19-20=-412/522, 18-19=-1420/1756, 17-18=-1440/1887, 16-17=-1438/1721,
15-16=-1419/1618
WEBS 7-17=-1575/2108, 17-24=-283/994, 24-25=-310/1037, 10-25=-294/1030, 10-15=-288/61,
4-22=-200/1028, 21-22=-214/1035, 17-21=-188/993, 2-23=-1402/1367, 19-23=-1392/1357,
15-26=-1395/1357, 12-26=-1404/1367

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. 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 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Bearing at joint(s) 20, 14 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) except (jt=lb) 20=235, 14=235.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

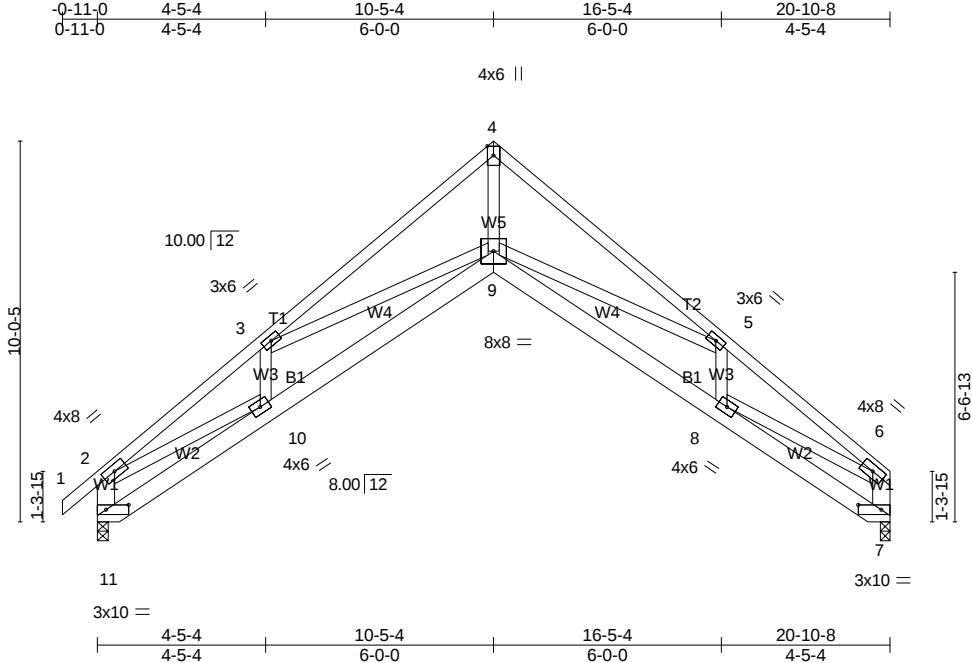
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	D2	SCISSORS	5	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:26 2024 Page 1

ID: XNCTxty3nklMqWojwZyAgzyf2Pc-Ahxb5U7733TzQxHIPT98gG8v2brC8YLuiBKqzyegWF



Scale = 1:60.7

Plate Offsets (X,Y)--	[7:0-7-4,0-1-8], [11:0-7-4,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.40	Vert(LL)	-0.11	9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(CT)	-0.22	9	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(CT)	0.32	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.19	8-9	>999	240		
									Weight: 149 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except*	
W1: 2x6 SP No.1	

REACTIONS. (lb/size) 11=887/0-3-8 (min. 0-1-8), 7=815/0-3-0 (min. 0-1-8)
Max Horz 11=254(LC 11)
Max Uplift 11=-161(LC 9), 7=-155(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=-1935/2138, 3-12=-1793/2147, 3-13=-1983/1289, 4-13=-1867/1323, 4-14=-1867/1338, 14-15=-1972/1305, 5-15=-1984/1292, 5-6=-1948/2169, 2-11=-886/1034, 6-7=-820/947
BOT CHORD 10-11=-324/385, 9-10=-1475/1714, 8-9=-1475/1712
WEBS 4-9=-1448/2020, 5-9=-202/903, 5-8=-396/90, 3-9=-146/900, 3-10=-394/122, 2-10=-1455/1403, 6-8=-1472/1407

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 10-5-4, Exterior(2) 10-5-4 to 14-10-1, Interior(1) 14-10-1 to 20-7-12 zone; porch 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 11, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=161, 7=155.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

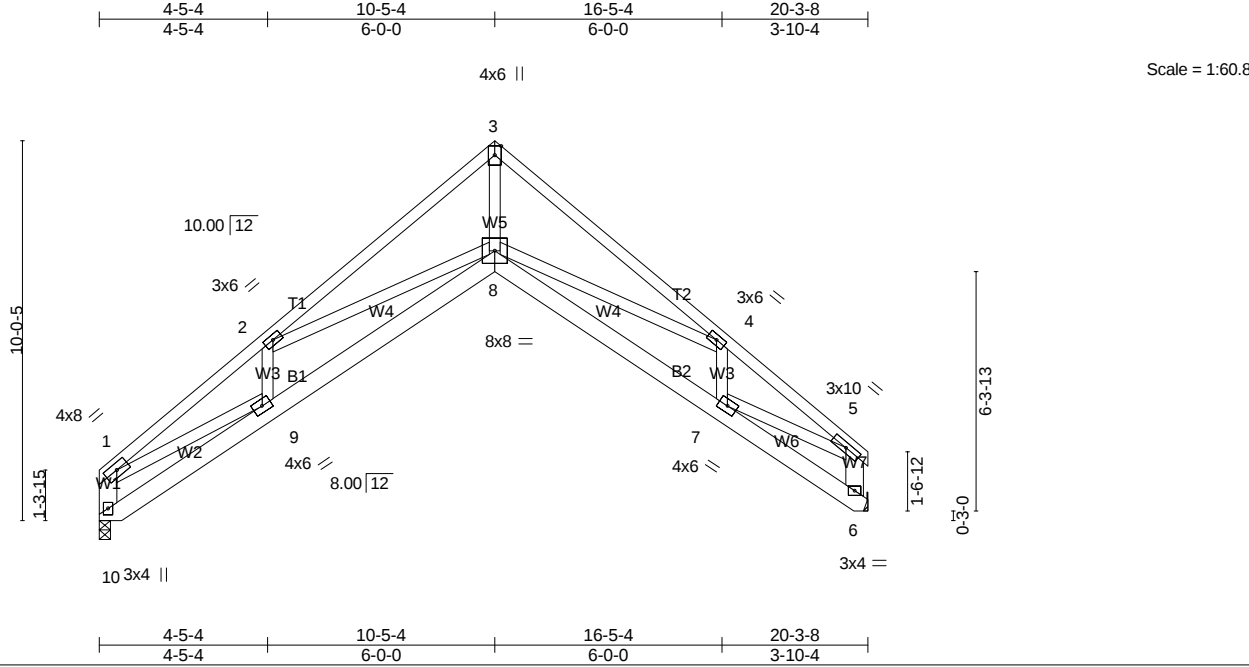
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	D3	SCISSORS	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:26 2024 Page 1

ID: XNCTxty3nkLMqWojwZyAgzyf2Pc-Ahxnb5U7733TzQxHIPT98gG9D2czC9uLuiBKqzyegWF



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.38	Vert(LL)	-0.09	8	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(CT)	-0.19	8-9	>999	240	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.46	Horz(CT)	0.27	6	n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.08	8-9	>999	240	
Weight: 143 lb									FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except*	
W1,W7: 2x6 SP No.1	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 10=788/0-3-8 (min. 0-1-8), 6=788/Mechanical
Max Horz 10=236(LC 9)
Max Uplift 10=-70(LC 12), 6=-70(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1966/527, 2-11=-1879/224, 11-12=-1869/237, 3-12=-1778/271, 3-13=-1849/275,
13-14=-1881/241, 4-14=-1936/232, 4-5=-1657/465, 1-10=-840/298, 5-6=-798/260
BOT CHORD 9-10=-296/386, 8-9=-412/1927, 7-8=-346/1453
WEBS 2-9=-307/163, 2-8=-388/411, 3-8=-95/1995, 4-8=-275/466, 4-7=-356/180, 1-9=-299/1413,
5-7=-284/1217

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 10-5-4, Exterior(2) 10-5-4 to 14-10-1, Interior(1) 14-10-1 to 19-11-4 zone; 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - 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 100 lb uplift at joint(s) 10, 6.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

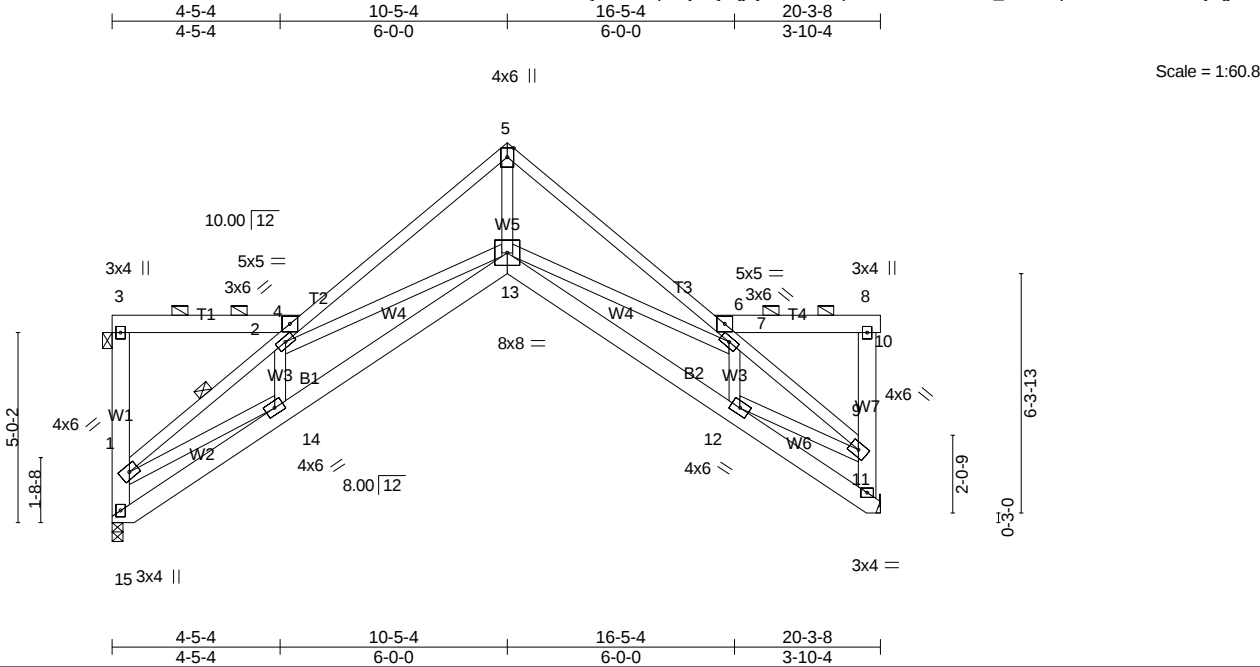
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	D4	SCISSORS	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:27 2024 Page 1

ID:XNCTxty3nkLMqWojwZyAgzyf2Pc-etV9pRULuNBKaaWTs7_OhuoCpSx9xc5U6MxtNPyegWE



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.84	Vert(LL)	-0.09 13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(CT)	-0.19 13-14	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.46	Horz(CT)	0.27 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.08 13-14	>999	240	Weight: 179 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except* T1,T4: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-4, 6-9, 3-4, 6-10. Except:
BOT CHORD 2x6 SP No.1	1 Row at midpt 1-4
WEBS 2x4 SP No.2 *Except* W1,W7: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 15=788/0-3-8 (min. 0-1-8), 11=810/Mechanical
Max Horz 15=-128(LC 8)
Max Uplift15=-80(LC 12), 11=-81(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1818/645, 2-4=-1956/557, 4-16=-1845/470, 5-16=-1749/504, 5-17=-1749/525,
6-17=-1846/492, 6-7=-1948/571, 7-9=-1622/561, 1-15=-790/275, 9-11=-797/270
BOT CHORD 14-15=-164/257, 13-14=-616/1665, 12-13=-491/1471
WEBS 2-14=-293/207, 5-13=-430/1879, 7-13=-114/291, 7-12=-356/216, 1-14=-476/1368,
9-12=-397/1226

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-11-1, Interior(1) 4-11-1 to 10-5-4, Exterior(2) 10-5-4 to 14-10-1, Interior(1) 14-10-1 to 20-3-8 zone;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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 15 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) 15, 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.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

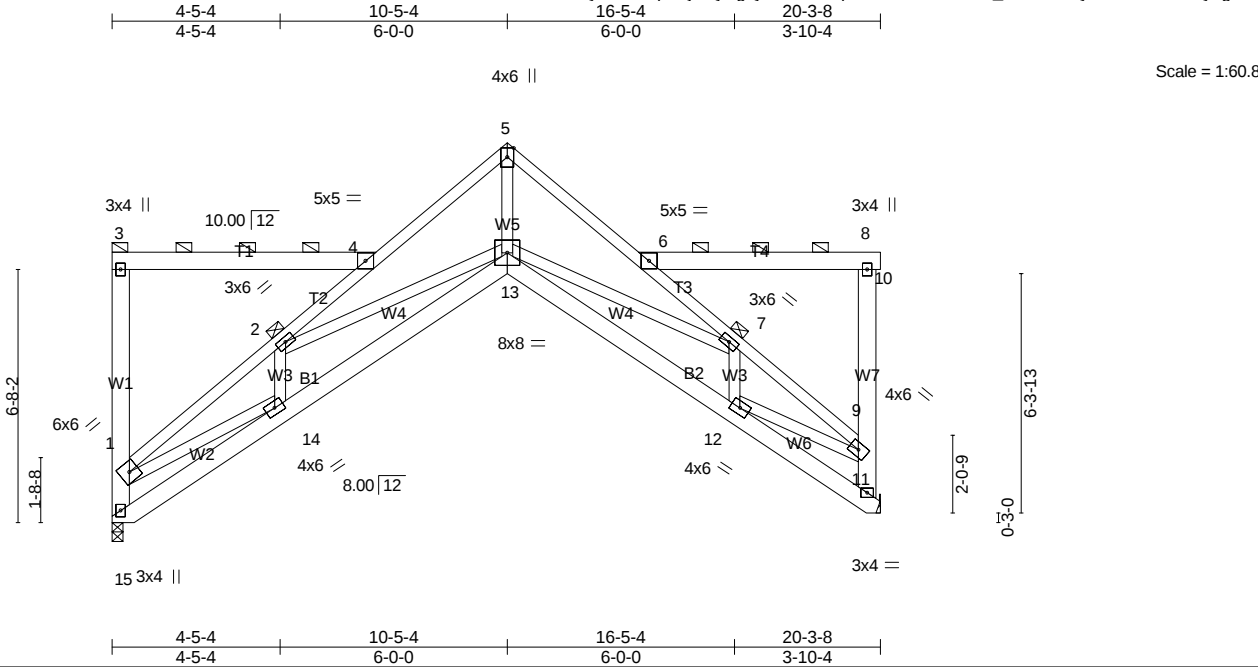
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	D5	SCISSORS	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:27 2024 Page 1

ID:XNCTxty3nkLMqWojwZyAgzyf2Pc-etV9pRULuNBKaaWTs7_OhuoDJSyTxdLU6MxtNPYegWE



Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	D6	ROOF SPECIAL	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:28 2024 Page 1

ID:XNCTxty3nkLMqWojwZyAgzyf2Pc-633X0nVNfhJBCK5fQqVdD5LS_sH_g0CeL0gRvryegWD

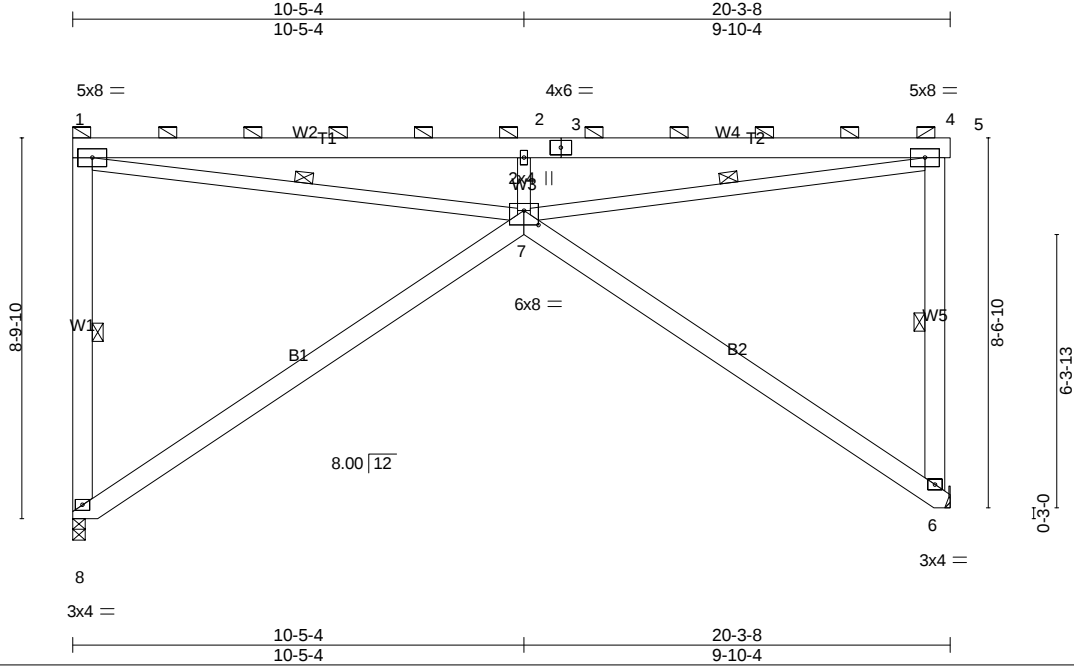


Plate Offsets (X,Y)-- [7-0-4-0,0-4-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.18	7	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.36	7-8	>649	240	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.48	6	n/a	n/a	
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.17	7	>999	240	Weight: 172 lb FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (4-0-3 max.): 1-5, except end verticals.
BOT CHORD 2x6 SP No.1	Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except*	1 Row at midpt 1-8, 4-6, 1-7, 4-7
W1,W5: 2x6 SP No.1	
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 8=788/0-3-8 (min. 0-1-8), 6=810/Mechanical
Max Uplift8=-136(LC 8), 6=-152(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-704/318, 1-9=-2454/761, 2-9=-2454/761, 2-3=-2454/761, 3-10=-2454/761,
4-10=-2454/761, 4-6=-732/329
WEBS 1-7=-755/2435, 2-7=-611/390, 4-7=-759/2441

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 20-3-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=136, 6=152.
 - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	D7	ROOF SPECIAL	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:28 2024 Page 1

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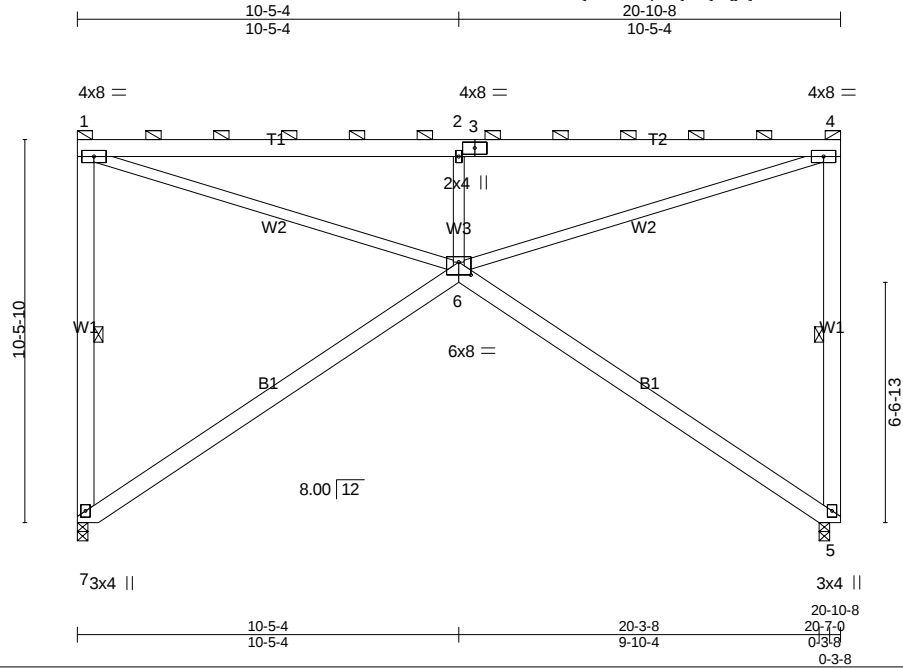


Plate Offsets (X,Y)--	[6:0-4-0,0-4-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.45	Vert(LL)	-0.10	5-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	-0.21	5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.91	Horz(CT)	0.17	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.06	6	>999	240		
									Weight: 189 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (5-10-15 max.): 1-4, except end verticals.
BOT CHORD 2x6 SP No.1	Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except*	1 Row at midpt 1-7, 4-5
W1: 2x6 SP No.1	
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS. (lb/size) 7=817/0-3-8 (min. 0-1-8), 5=817/0-3-8 (min. 0-1-8)
Max Uplift7=-141(LC 8), 5=-141(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-7=-734/325, 1-8=-1437/445, 2-8=-1437/445, 2-3=-1437/445, 3-9=-1437/445,
4-9=-1437/445, 4-5=-734/325
WEBS 1-6=-461/1479, 2-6=-690/422, 4-6=-461/1479

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 20-7-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) 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.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=141, 5=141.
 - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	D8	ROOF SPECIAL	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:29 2024 Page 1

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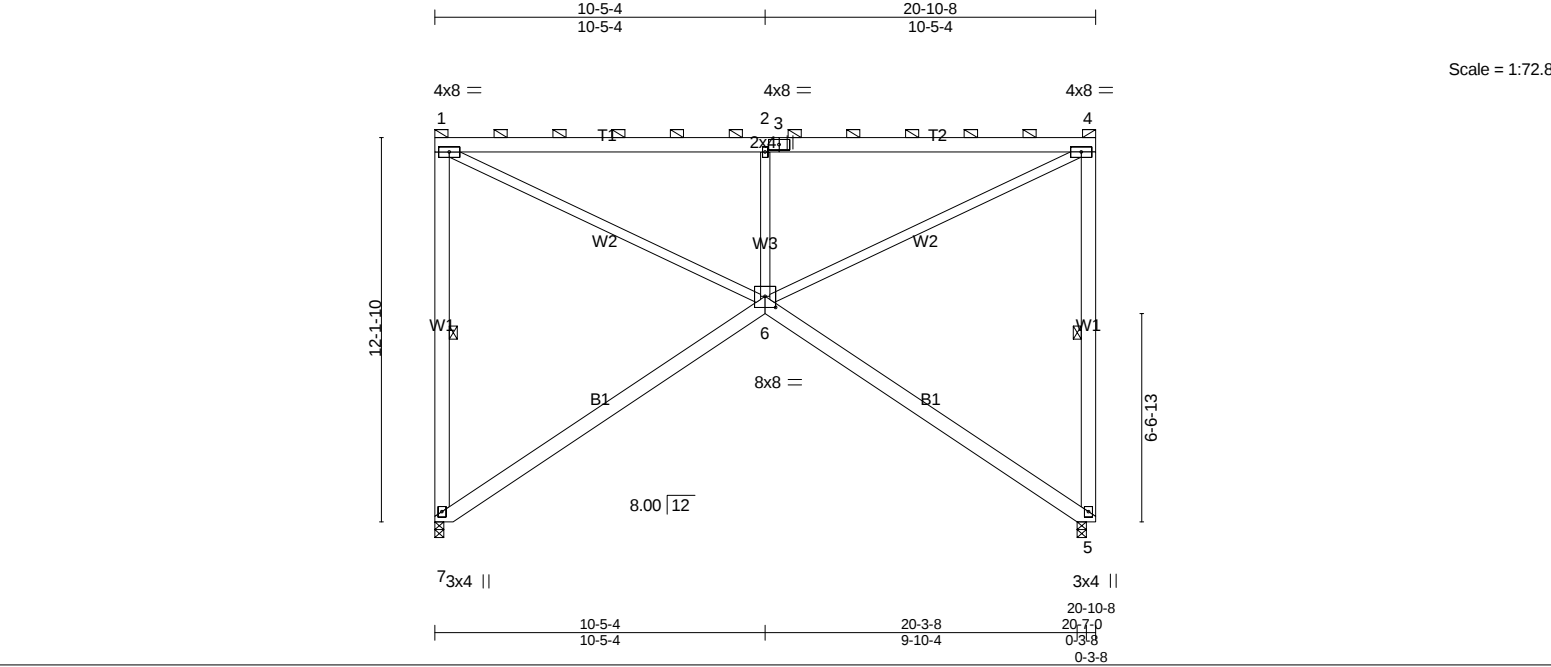


Plate Offsets (X,Y)-- [6:0-4-0,0-4-4]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL)	-0.09	5-6	>999	360	MT20 244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	-0.19	5-6	>999	240	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.74	Horz(CT)	0.10	5	n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.03	6	>999	240	
									Weight: 201 lb FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-4, except end verticals.
BOT CHORD 2x6 SP No.1	Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except*	1 Row at midpt 1-7, 4-5
W1: 2x6 SP No.1	
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS. (lb/size) 7=817/0-3-8 (min. 0-1-8), 5=817/0-3-8 (min. 0-1-8)
Max Uplift7=-141(LC 8), 5=-141(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-7=-733/324, 1-8=-978/303, 2-8=-978/303, 2-3=-978/303, 3-9=-978/303, 4-9=-978/303, 4-5=-733/324
WEBS 1-6=-332/1063, 2-6=-703/428, 4-6=-332/1063

- NOTES-
- 1) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 20-7-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) 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.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=141, 5=141.
 - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job J0924-4915	Truss D9	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Rhodall Residence
Job Reference (optional)					

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Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:30 2024 Page 1
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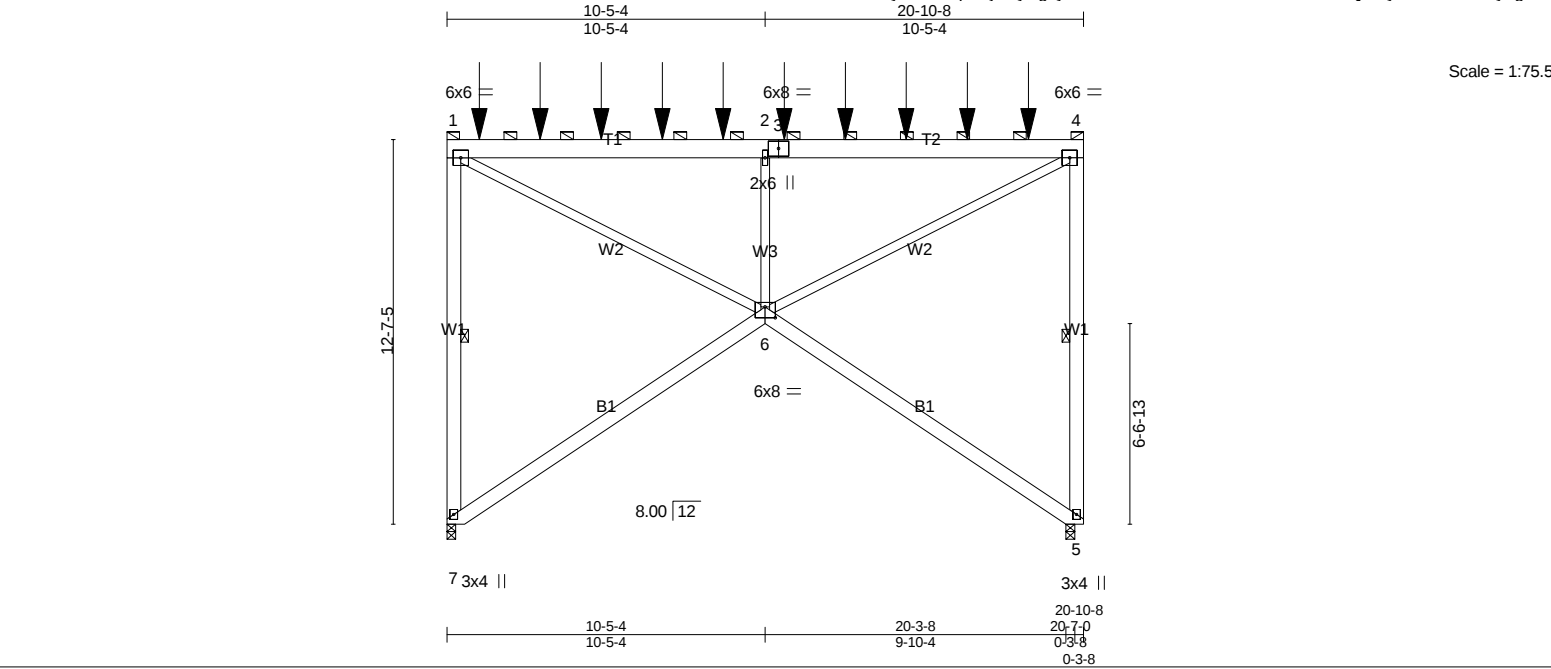


Plate Offsets (X,Y)-- [6:0-4-0,0-4-4]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.61	Vert(LL)	-0.09	5-6	>999	360	MT20 244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(CT)	-0.20	5-6	>999	240	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.94	Horz(CT)	0.14	5	n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.05	6	>999	240	
Weight: 219 lb FT = 25%									

LUMBER-
TOP CHORD 2x8 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
W1: 2x6 SP No.1

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-4, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 1-7, 4-5

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

REACTIONS. (lb/size) 7=1455/0-3-8 (min. 0-1-8), 5=1403/0-3-8 (min. 0-1-8)
Max Uplift 7=269(LC 8), 5=259(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-7=-1371/385, 1-8=-1610/367, 8-9=-1610/367, 9-10=-1610/367, 10-11=-1610/367,
11-12=-1610/367, 12-13=-1610/367, 2-13=-1610/367, 2-3=-1610/367, 3-14=-1610/367,
14-15=-1610/367, 15-16=-1610/367, 16-17=-1610/367, 17-18=-1610/367, 4-18=-1610/367,
4-5=-1319/382
WEBS 1-6=-413/1793, 2-6=-1453/527, 4-6=-413/1794

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 20-7-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) 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.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=269, 5=259.
 - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 147 lb down and 85 lb up at 1-0-12, 147 lb down and 87 lb up at 3-0-12, 141 lb down and 87 lb up at 5-0-12, 138 lb down and 87 lb up at 7-0-12, 138 lb down and 87 lb up at 9-0-12, 138 lb down and 87 lb up at 11-0-12, 138 lb down and 87 lb up at 13-0-12, 138 lb down and 87 lb up at 15-0-12, and 146 lb down and 87 lb up at 17-0-12, and 147 lb down and 87 lb up at 19-0-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	D9	ROOF SPECIAL	1	1	Job Reference (optional)

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 6-7=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 3=-122(B) 8=-127(B) 9=-122(B) 11=-122(B) 12=-122(B) 13=-122(B) 14=-122(B) 15=-122(B) 17=-122(B) 18=-122(B)

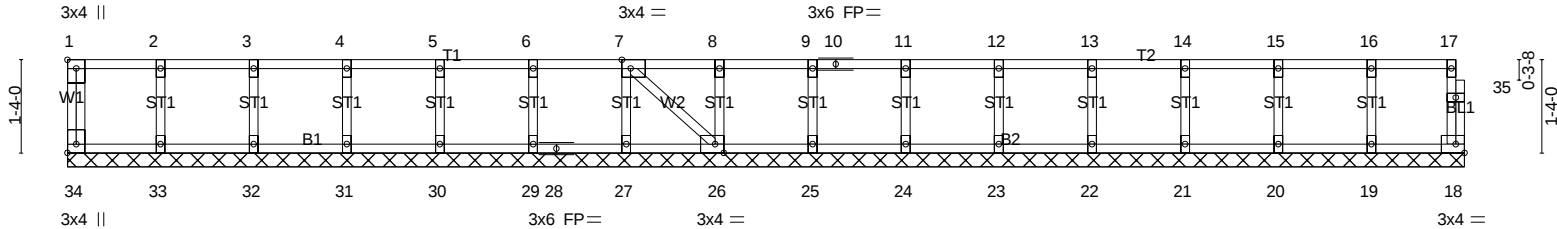
Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	ET1	GABLE	2	1	Job Reference (optional)

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0-1-8

Scale = 1:33.0



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0
Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [26:0-1-8,Edge], [34:Edge,0-1-8]														

LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	18	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						Weight: 90 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 20-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 34, 18, 33, 32, 31, 30, 29, 27, 26, 25, 24, 23, 22, 21, 20, 19

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Plates checked for a plus or minus 1 degree rotation about its center.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1-4-0 oc.
 - 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.
 - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	ET2	GABLE	1	1	Job Reference (optional)

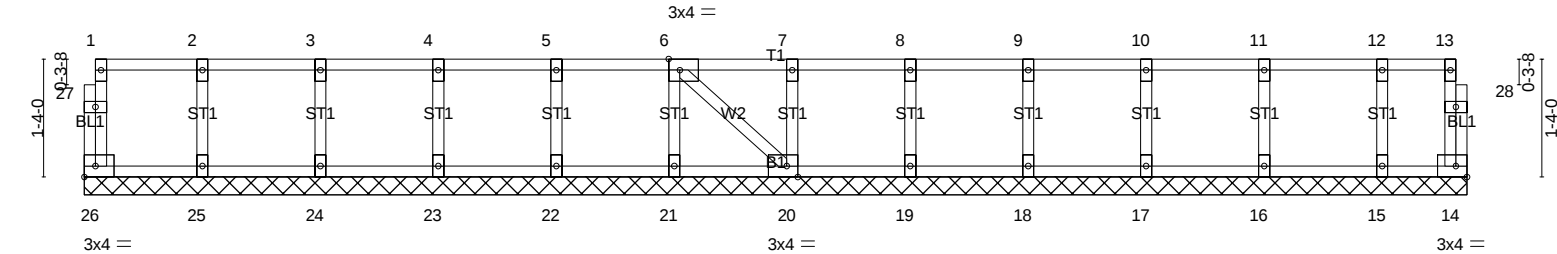
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0-1-8

0-1-8

Scale = 1:26.0



1-4-0 2-8-0 4-0-0 5-4-0 6-8-0 8-0-0 9-4-0 10-8-0 12-0-0 13-4-0 14-8-0 15-7-8														
1-4-0 1-4-0 1-4-0 1-4-0 1-4-0 1-4-0 1-4-0 1-4-0 1-4-0 1-4-0 1-4-0 1-4-0 0-11-8														
Plate Offsets (X,Y)-- [6:0-1-8,Edge], [20:0-1-8,Edge]														
LOADING (psf)			SPACING- 1-7-3			CSI.			DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	40.0		Plate Grip DOL	1.00		TC	0.05		Vert(LL)	n/a	-	n/a	999	MT20 244/190
TCDL	10.0		Lumber DOL	1.00		BC	0.01		Vert(CT)	n/a	-	n/a	999	
BCLL	0.0		Rep Stress Incr	YES		WB	0.03		Horz(CT)	0.00	14	n/a	n/a	
BCDL	5.0		Code IRC2015/TPI2014			Matrix-S								Weight: 72 lb FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		
OTHERS	2x4 SP No.3(flat)		

REACTIONS. All bearings 15-7-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Plates checked for a plus or minus 1 degree rotation about its center.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1-4-0 oc.
 - 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.
 - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	F1	Floor	14	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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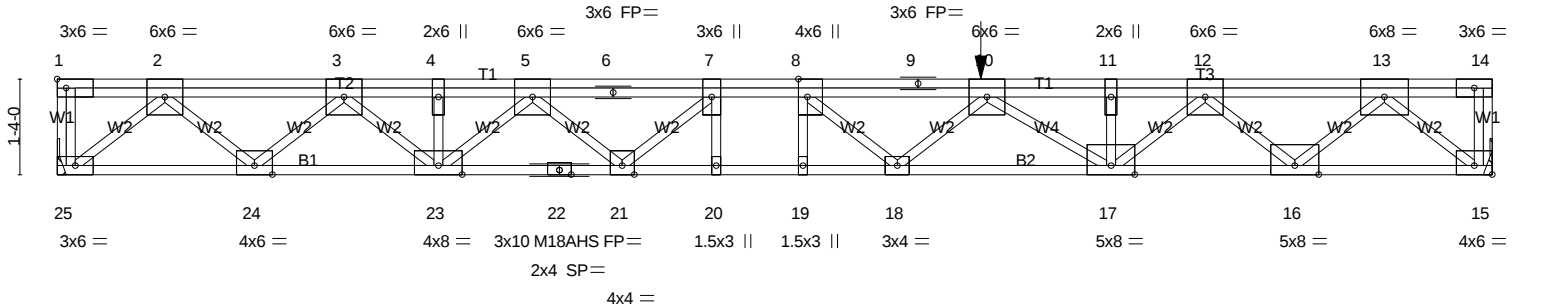
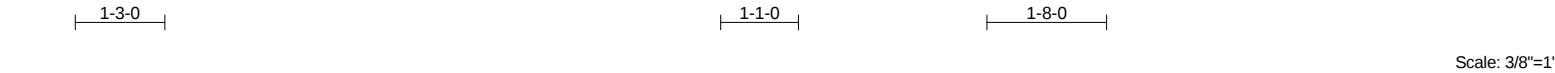


Plate Offsets (X,Y)-- [8:0-3-0,Edge], [15:Edge,0-1-8]					
LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 40.0	Plate Grip DOL	1.00	TC 0.54	Vert(LL)	-0.38 18-19 >630 480
TCDL 10.0	Lumber DOL	1.00	BC 0.90	Vert(CT)	-0.52 18-19 >458 360
BCLL 0.0	Rep Stress Incr	NO	WB 0.91	Horz(CT)	0.10 15 n/a n/a
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S		
Weight: 134 lb FT = 20%F, 11%E					

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 25=1219/Mechanical, 15=1518/Mechanical

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

TOP CHORD 2-3=-2483/0, 3-4=-4473/0, 4-5=-4473/0, 5-6=-5902/0, 6-7=-5902/0, 7-8=-6658/0, 8-9=-7038/0, 9-10=-7038/0, 10-11=-5817/0, 11-12=-5817/0, 12-13=-3165/0

BOT CHORD 24-25=0/1403, 23-24=0/3540, 22-23=0/5226, 21-22=0/5226, 20-21=0/6658, 19-20=0/6658, 18-19=0/6658, 17-18=0/7314, 16-17=0/4542, 15-16=0/1761

WEBS 2-25=-1827/0, 2-24=0/1465, 3-24=-1433/0, 3-23=0/1238, 13-15=-2292/0, 13-16=0/1905, 12-16=-1869/0, 12-17=0/1692, 10-17=-1796/0, 10-18=-616/210, 8-18=-198/789, 5-23=-1000/0, 5-21=0/1041, 7-21=-1172/0

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) The Fabrication Tolerance at joint 22 = 11%
 - 4) Plates checked for a plus or minus 1 degree rotation about its center.
 - 5) Refer to girder(s) for truss to truss connections.
 - 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.
 - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 15-25=-8, 1-14=-80

Concentrated Loads (lb)

Vert: 10=-1000

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	F2	Floor	3	1	Job Reference (optional)

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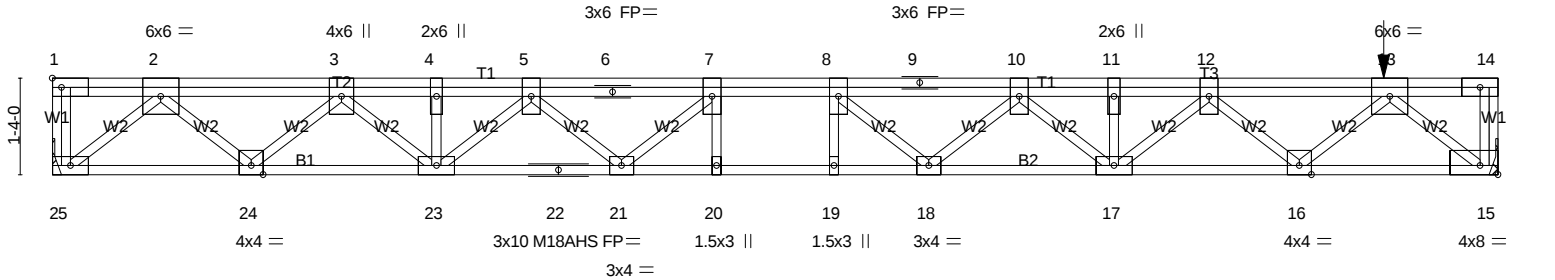
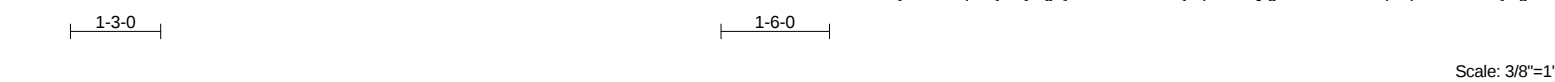


Plate Offsets (X,Y)-- [15:Edge,0-1-8]

LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.28	Vert(LL) -0.27 19 >873 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.93	Vert(CT) -0.37 19 >635 360	M18AHS 186/179
BCLL 0.0	Rep Stress Incr NO	WB 0.64	Horz(CT) 0.09 15 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		
Weight: 133 lb FT = 20%F, 11%E				

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 25=938/Mechanical, 15=1799/Mechanical

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

TOP CHORD 2-3=-1844/0, 3-4=-3203/0, 4-5=-3203/0, 5-6=-3989/0, 6-7=-3989/0, 7-8=-4306/0, 8-9=-4224/0, 9-10=-4224/0, 10-11=-3763/0, 11-12=-3763/0, 12-13=-2709/0

BOT CHORD 24-25=0/1069, 23-24=0/2595, 22-23=0/3679, 21-22=0/3679, 20-21=0/4306, 19-20=0/4306, 18-19=0/4306, 17-18=0/4110, 16-17=0/3323, 15-16=0/2073

WEBS 2-25=-1392/0, 2-24=0/1052, 3-24=-1018/0, 3-23=0/807, 13-15=-2698/0, 13-16=0/863, 12-16=-833/0, 12-17=0/585, 10-17=-461/0, 10-18=-105/394, 8-18=-413/198, 5-23=-631/0, 5-21=0/564, 7-21=-612/0

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x6 MT20 unless otherwise indicated.
 - 4) Plates checked for a plus or minus 1 degree rotation about its center.
 - 5) Refer to girder(s) for truss to truss connections.
 - 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.
 - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 15-25=-8, 1-14=-80

Concentrated Loads (lb)

Vert: 13=-1000

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	F3	Floor	4	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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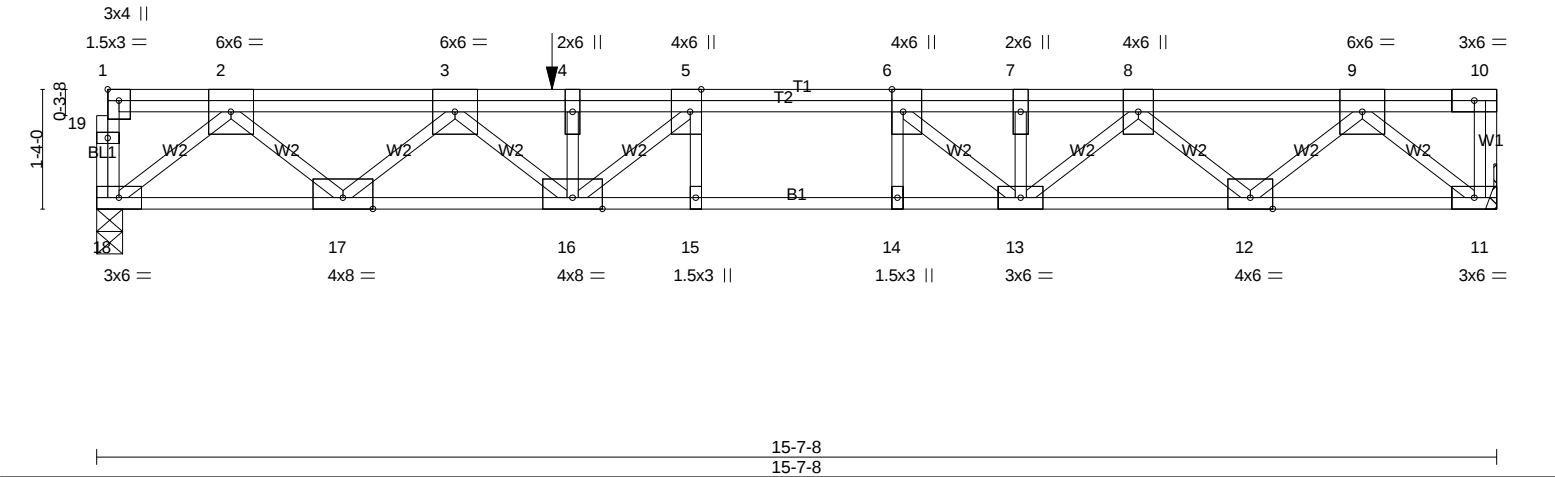
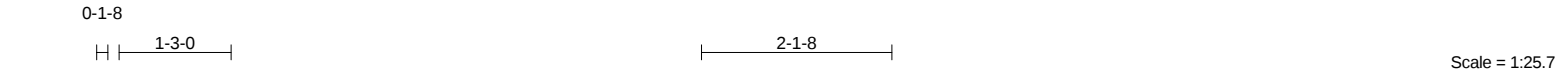


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-3-0,Edge], [6:0-3-0,Edge]					
LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)
TCLL 40.0	Plate Grip DOL	1.00	TC 0.70	Vert(LL)	-0.20 15-16 >946 480
TCDL 10.0	Lumber DOL	1.00	BC 0.74	Vert(CT)	-0.27 15-16 >688 360
BCLL 0.0	Rep Stress Incr	NO	WB 0.78	Horz(CT)	0.05 11 n/a n/a
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S		
				PLATES	GRIP
				MT20	244/190
				Weight: 104 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 18=1334/0-3-8 (min. 0-1-8), 11=1013/Mechanical

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

TOP CHORD 2-3=-2756/0, 3-4=-5027/0, 4-5=-5027/0, 5-6=-4472/0, 6-7=-3473/0, 7-8=-3473/0, 8-9=-2023/0

BOT CHORD 17-18=0/1543, 16-17=0/3948, 15-16=0/4472, 14-15=0/4472, 13-14=0/4472, 12-13=0/2856, 11-12=0/1158

WEBS 2-18=-2006/0, 2-17=0/1645, 3-17=-1618/0, 3-16=0/1432, 4-16=-1406/0, 5-16=-210/997, 9-11=-1508/0, 9-12=0/1174, 8-12=-1129/0, 8-13=0/820, 7-13=-72/397, 6-13=-1514/0

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Plates checked for a plus or minus 1 degree rotation about its center.
 - 3) Refer to girder(s) for truss to truss connections.
 - 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.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 11-18=-8, 1-10=-80

Concentrated Loads (lb)

Vert: 4=-1000

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	F4	Floor	4	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:33 2024 Page 1
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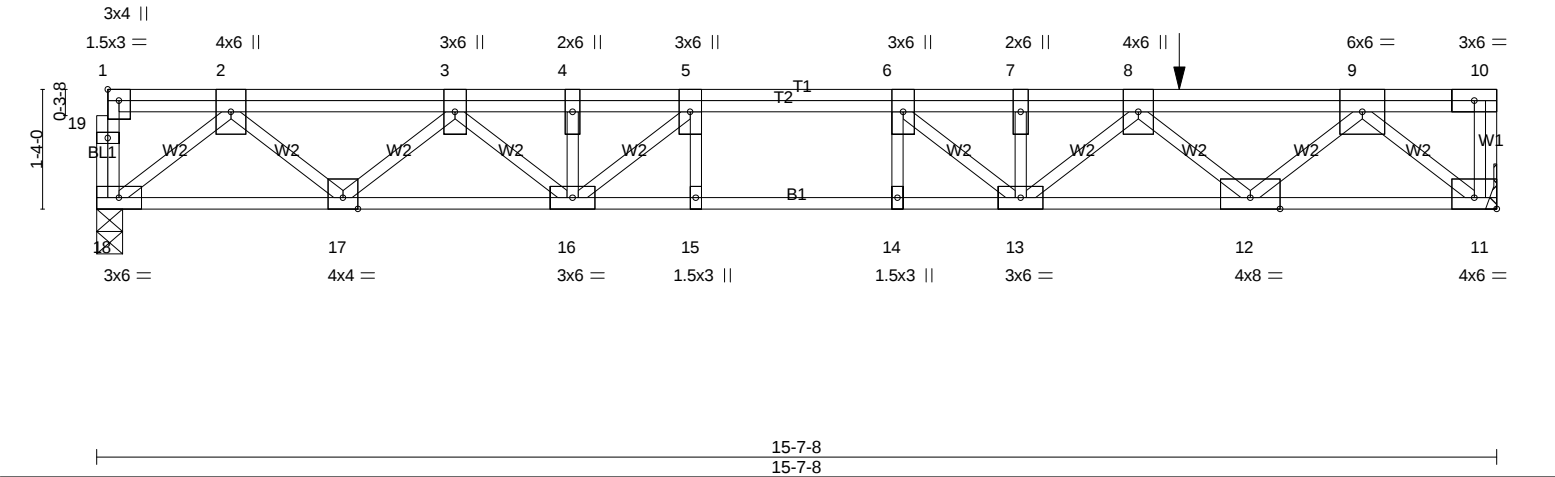
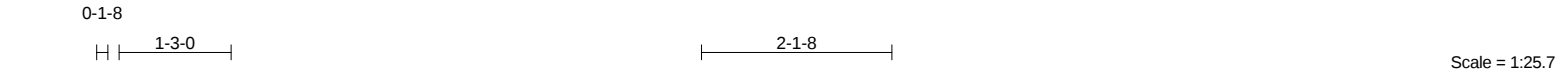


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [11:Edge,0-1-8]					
LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 40.0	Plate Grip DOL	1.00	TC 0.53	Vert(LL)	-0.18 14 >999 480
TCDL 10.0	Lumber DOL	1.00	BC 0.97	Vert(CT)	-0.24 14 >755 360
BCLL 0.0	Rep Stress Incr	NO	WB 0.76	Horz(CT)	0.06 11 n/a n/a
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S		
				PLATES	GRIP
				MT20	244/190
				Weight: 104 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 18=893/0-3-8 (min. 0-1-8), 11=1454/Mechanical

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

TOP CHORD 2-3=-1757/0, 3-4=-2979/0, 4-5=-2979/0, 5-6=-3699/0, 6-7=-4000/0, 7-8=-4000/0, 8-20=-2924/0, 9-20=-2924/0

BOT CHORD 17-18=0/1020, 16-17=0/2465, 15-16=0/3699, 14-15=0/3699, 13-14=0/3699, 12-13=0/4079, 11-12=0/1752

WEBS 2-18=-1325/0, 2-17=0/1000, 3-17=-961/0, 3-16=0/683, 4-16=-110/293, 5-16=-1152/0, 9-11=-2281/0, 9-12=0/1591, 8-12=-1566/0, 6-13=-298/666

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Plates checked for a plus or minus 1 degree rotation about its center.
 - 3) Refer to girder(s) for truss to truss connections.
 - 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.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 11-18=-8, 1-10=-80

Concentrated Loads (lb)

Vert: 20=-1000

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	F5	Floor	7	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:33 2024 Page 1
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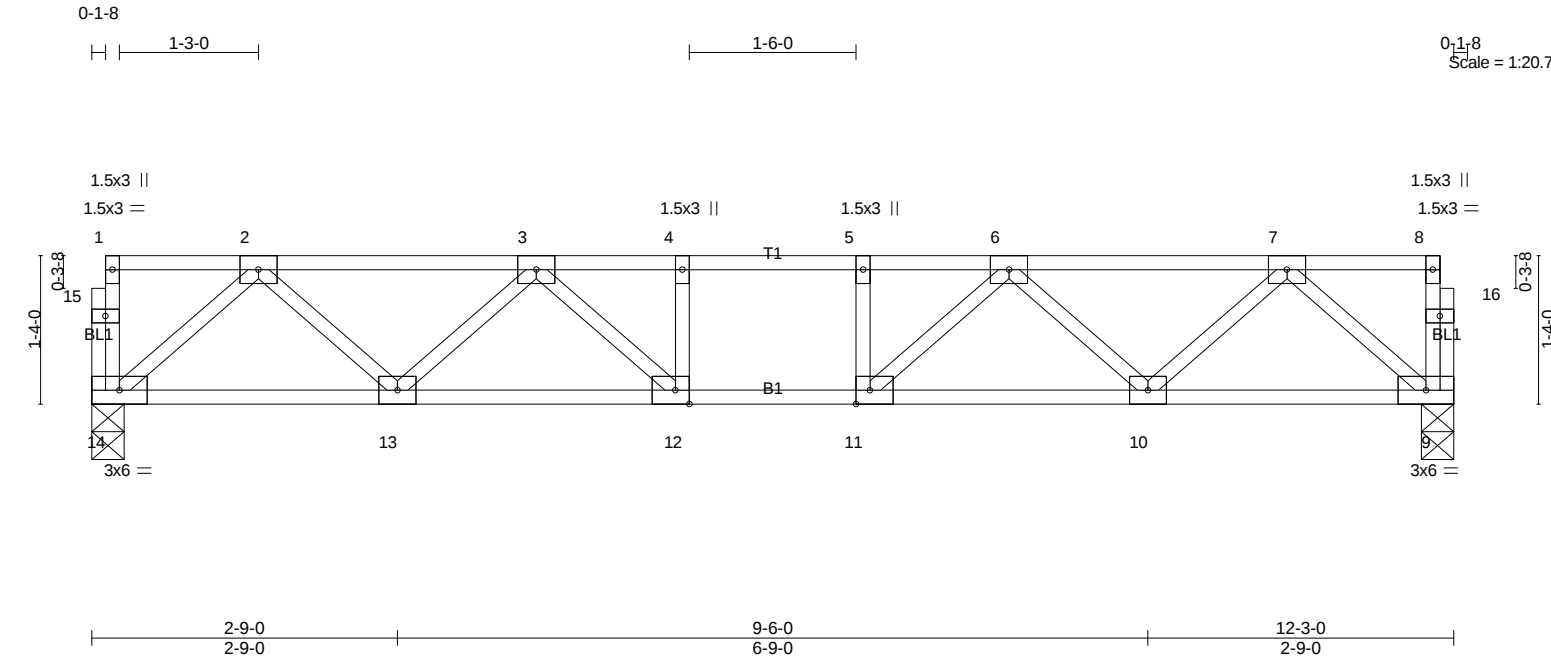


Plate Offsets (X,Y)--		[11:0-1-8,Edge], [12:0-1-8,Edge]	
LOADING (psf)	SPACING-	1-7-3	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.20
TCDL 10.0	Lumber DOL	1.00	BC 0.28
BCLL 0.0	Rep Stress Incr	YES	WB 0.21
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.05 12-13 >999 480
			Vert(CT) -0.06 12-13 >999 360
			Horz(CT) 0.02 9 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 65 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 14=523/0-3-8 (min. 0-1-8), 9=523/0-3-8 (min. 0-1-8)

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

TOP CHORD 2-3=-873/0, 3-4=-1292/0, 4-5=-1292/0, 5-6=-1292/0, 6-7=-873/0

BOT CHORD 13-14=0/555, 12-13=0/1167, 11-12=0/1292, 10-11=0/1167, 9-10=0/555

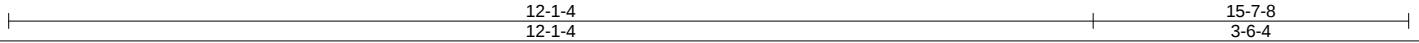
WEBS 7-9=-738/0, 2-14=-738/0, 7-10=0/442, 2-13=0/442, 6-10=-408/0, 3-13=-408/0, 6-11=0/309, 3-12=0/309

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 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.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Comtech, Inc., Fayetteville, NC 28309, David Landry Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:34 2024 Page 1
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Scale = 1:25.7



LUMBER-	
TOP CHORD	2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)
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.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-771/0, 3-4=-1049/0, 4-5=-1049/0, 5-6=-1049/0, 6-7=-493/0, 7-8=0/515, 8-9=0/515
BOT CHORD 19-20=0/500, 18-19=0/1008, 17-18=0/1049, 16-17=0/840
WEBS 2-20=-664/0, 7-15=-811/0, 2-19=0/377, 7-16=0/508, 3-19=-330/0, 6-16=-493/0,
6-17=0/354, 9-15=-479/0, 10-12=-53/285

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 12.
- 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.
- 7) Recommend 2x6 strongbacks, on edge, spaced at 10'-0" oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	G1	COMMON	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:35 2024 Page 1

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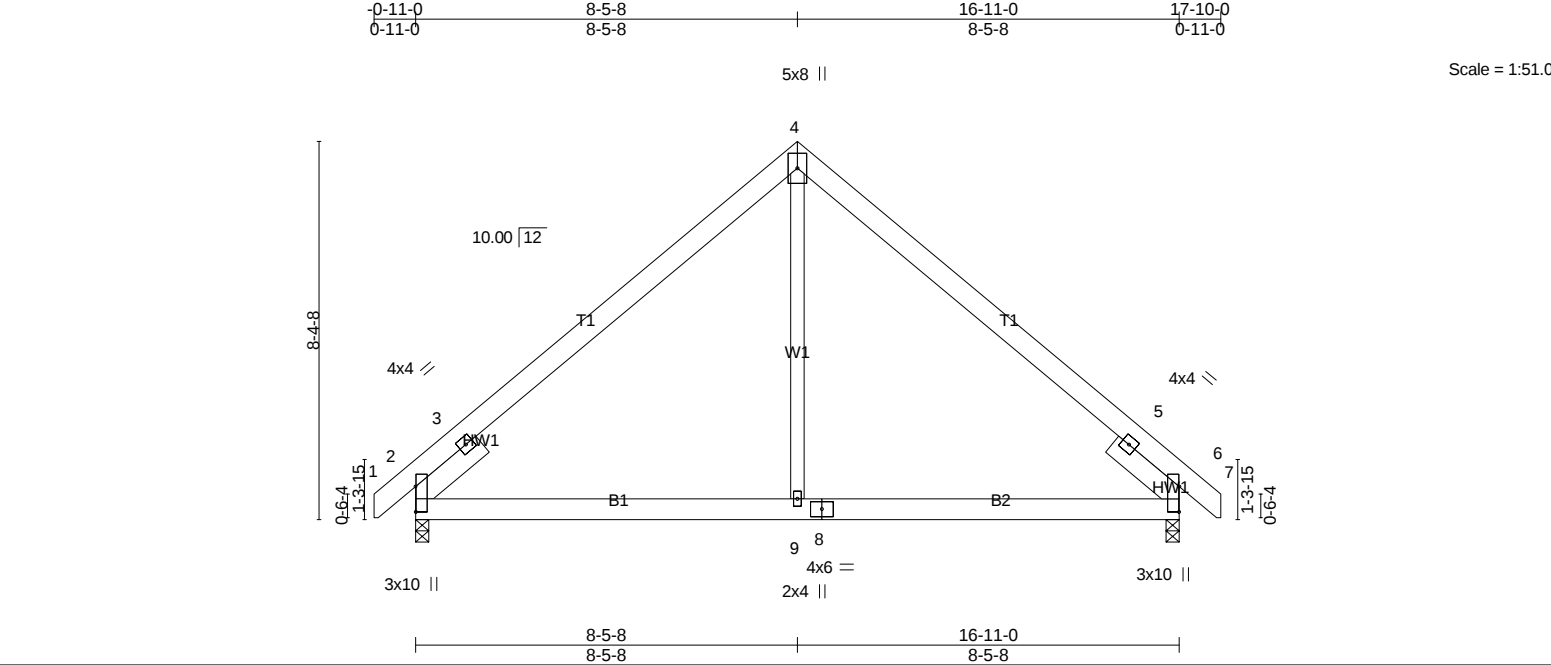


Plate Offsets (X,Y)-- [2:0-6-12,0-0-1], [6:0-6-12,0-0-1]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL) -0.04	9-16 >999 360
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT) -0.06	9-16 >999 240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT) 0.02	6 n/a n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL) 0.04	9-16 >999 240
				Weight: 118 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
SLIDER Left 2x6 SP No.1 1-11-0, Right 2x6 SP No.1 1-11-0	

REACTIONS. (lb/size) 6=729/0-3-8 (min. 0-1-8), 2=729/0-3-8 (min. 0-1-8)
Max Horz 2=216(LC 11)
Max Uplift 6=-78(LC 13), 2=-78(LC 12)
Max Grav 6=874(LC 20), 2=874(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-322/29, 3-18=-890/228, 18-19=-793/232, 4-19=-716/266, 4-20=-716/266,
20-21=-792/232, 5-21=-890/228, 5-6=-322/29
BOT CHORD 2-22=0/640, 9-22=0/640, 8-9=0/640, 8-23=0/640, 6-23=0/640
WEBS 4-9=0/604

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-7 to 3-6-6, Interior(1) 3-6-6 to 8-5-8, Exterior(2) 8-5-8 to 12-10-5, Interior(1) 12-10-5 to 17-9-7 zone; 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 78 lb uplift at joint 6 and 78 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.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	G1GE	COMMON SUPPORTED GAB	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:35 2024 Page 1

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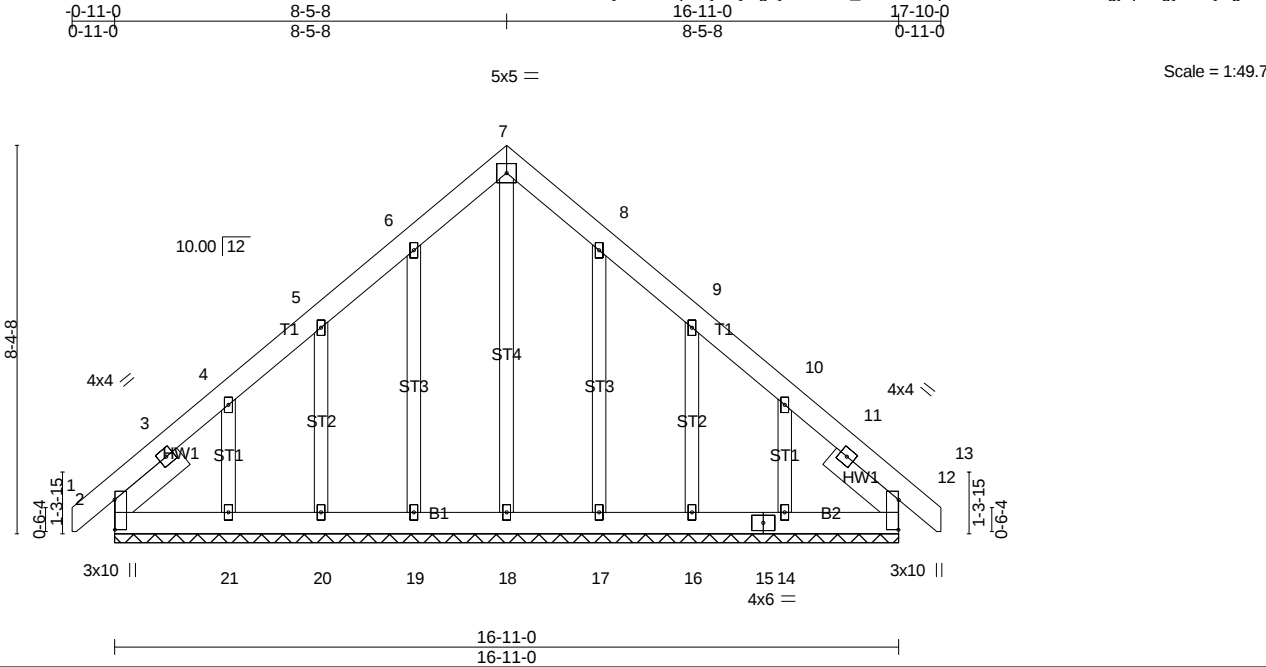


Plate Offsets (X,Y)-- [2:0-7-12,0-0-1], [12:0-7-12,0-0-1]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL) 0.00	12 n/r 120
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT) 0.00	12 n/r 120
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(CT) 0.00	12 n/a n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S		
					PLATES GRIP
					MT20 244/190
					Weight: 155 lb FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
SLIDER Left 2x6 SP No.1 1-11-0, Right 2x6 SP No.1 1-11-0	

REACTIONS. All bearings 16-11-0.
(lb) - Max Horz 2=272(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12 except 19=-113(LC 12), 20=-124(LC 12), 21=-266(LC 12), 17=-107(LC 13), 16=-129(LC 13), 14=-252(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 18, 19, 20, 17, 16, 12 except 2=254(LC 20), 21=266(LC 19), 14=250(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-266/187
WEBS 4-21=-262/268, 10-14=-262/256

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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, 12 except (jt=lb) 19=113, 20=124, 21=266, 17=107, 16=129, 14=252.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 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.

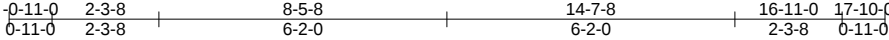
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	G2	ROOF SPECIAL	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:36 2024 Page 1

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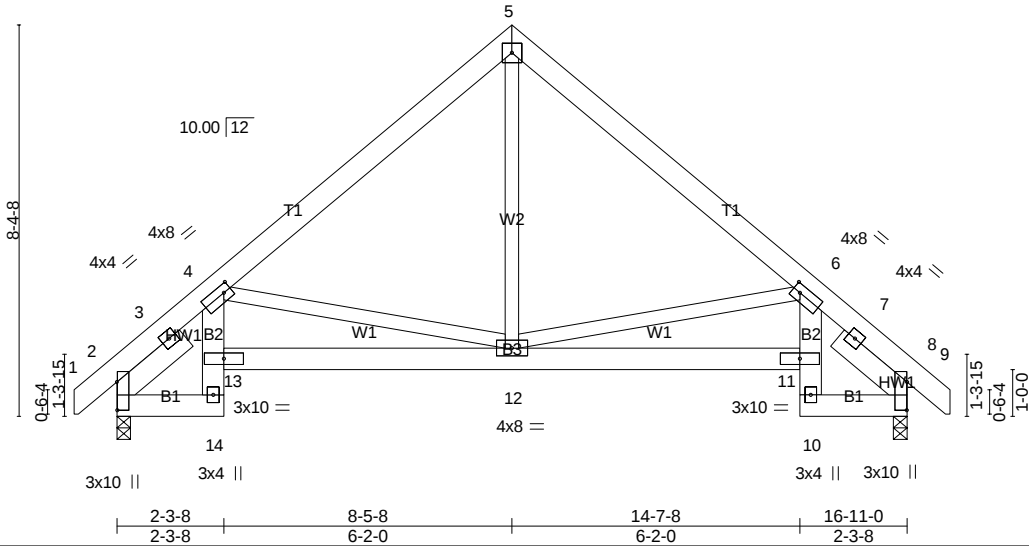


Plate Offsets (X,Y)-- [2:0-7-4,0-0-1], [4:0-2-0,0-2-0], [6:0-2-0,0-2-0], [8:0-7-4,0-0-1]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.02 12-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(CT)	-0.04 12-13	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.42	Horz(CT)	0.04 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.02 12-13	>999	240		
									Weight: 145 lb FT = 25%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.1 1-11-0, Right 2x6 SP No.1 1-11-0

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

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

REACTIONS. (lb/size) 2=729/0-3-8 (min. 0-1-8), 8=729/0-3-8 (min. 0-1-8)
Max Horz 2=216(LC 11)
Max Uplift 2=78(LC 12), 8=78(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-813/263, 4-23=-718/223, 23-24=-692/227, 5-24=-678/261, 5-25=-678/256,
25-26=-692/222, 6-26=-718/211, 6-7=-813/258
BOT CHORD 2-14=-135/583, 12-13=-245/1025, 11-12=-236/931, 8-10=-109/509
WEBS 5-12=-66/454, 6-12=-583/306, 4-12=-581/297

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-7 to 3-6-6, Interior(1) 3-6-6 to 8-5-8, Exterior(2) 8-5-8 to 12-10-5, Interior(1) 12-10-5 to 17-9-7 zone;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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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, 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.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	G3	ROOF SPECIAL	3	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:36 2024 Page 1

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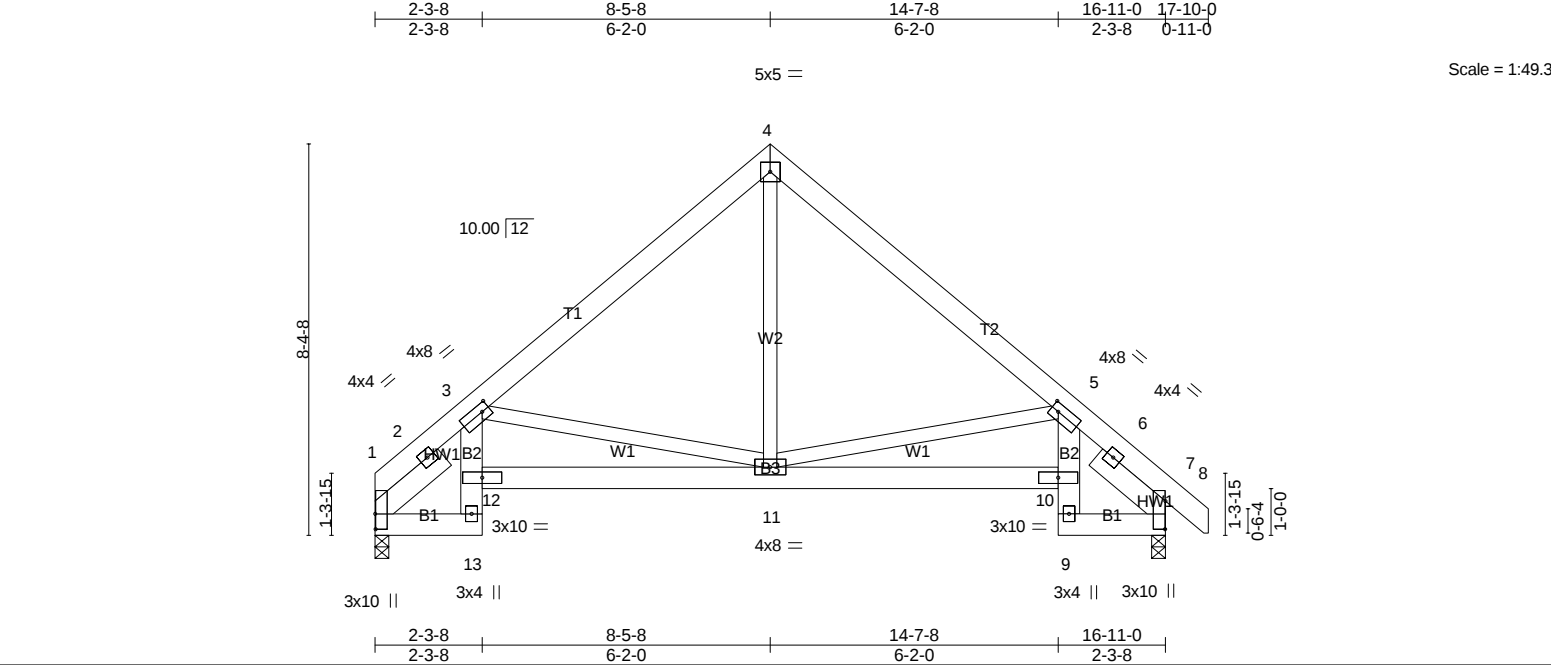


Plate Offsets (X,Y)--									
[1:0-4-0,0-0-1], [3:0-2-0,0-2-0], [5:0-2-0,0-2-0], [7:0-7-4,0-0-1]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.02	11-12	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	-0.04	11-12	>999	240	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.42	Horz(CT)	0.04	7	n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.02	11-12	>999	240	
									Weight: 142 lb FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	
SLIDER Left 2x6 SP No.1 1-11-0, Right 2x6 SP No.1 1-11-0	

REACTIONS. (lb/size) 1=675/0-3-8 (min. 0-1-8), 7=730/0-3-8 (min. 0-1-8)
Max Horz 1=-210(LC 8)
Max Uplift 1=-62(LC 12), 7=-78(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-816/267, 3-22=-719/231, 22-23=-689/234, 4-23=-679/265, 4-24=-679/255, 24-25=-693/222, 5-25=-719/211, 5-6=-813/258
BOT CHORD 1-13=-134/591, 11-12=-244/1035, 10-11=-240/931, 7-9=-112/509
WEBS 4-11=-71/455, 5-11=-583/305, 3-11=-586/308

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 8-5-8, Exterior(2) 8-5-8 to 12-10-5, Interior(1) 12-10-5 to 17-9-7 zone; 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	G4	COMMON	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:37 2024 Page 1

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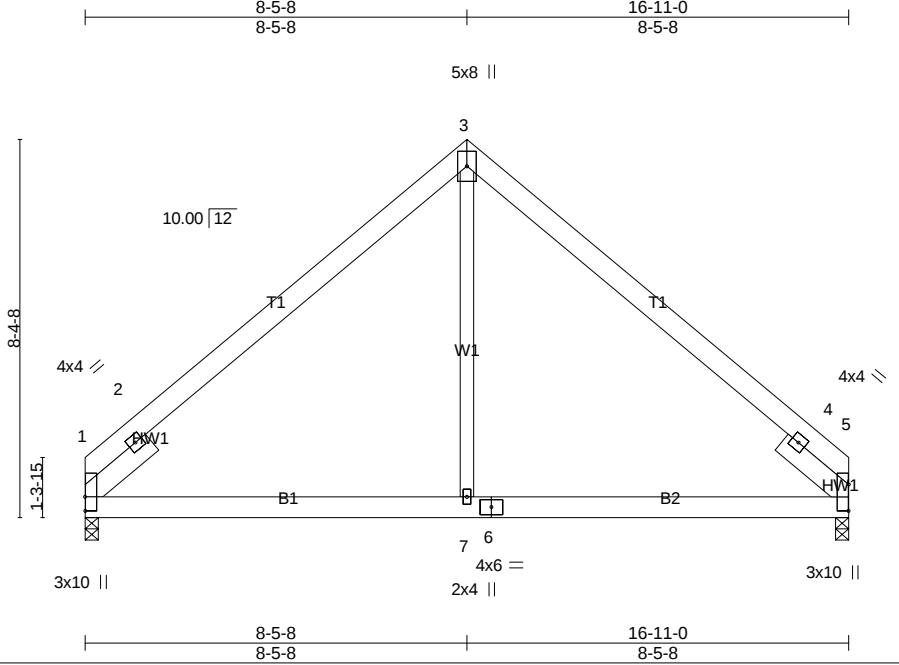


Plate Offsets (X,Y)--	[1:0-3-12,0-0-1], [5:0-7-0,0-0-1]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	-0.04	7-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.06	7-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.02	1	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.04	7-10	>999	240		
									Weight: 113 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	
SLIDER Left 2x6 SP No.1 1-11-0, Right 2x6 SP No.1 1-11-0	

REACTIONS.	(lb/size) 1=677/0-3-8 (min. 0-1-8), 5=677/0-3-8 (min. 0-1-8)
	Max Horz 1=-196(LC 8)
	Max Uplift 1=-62(LC 12), 5=-62(LC 13)
	Max Grav 1=824(LC 19), 5=824(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-328/27, 2-16=-894/234, 16-17=-786/234, 3-17=-721/268, 3-18=-721/268, 18-19=-786/234, 4-19=-893/234, 4-5=-328/27
BOT CHORD	1-20=-9/633, 7-20=-9/633, 6-7=-9/633, 6-21=-9/633, 5-21=-9/633
WEBS	3-7=0/605

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 8-5-8, Exterior(2) 8-5-8 to 12-10-5, Interior(1) 12-10-5 to 16-11-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	H1	ROOF SPECIAL	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:37 2024 Page 1
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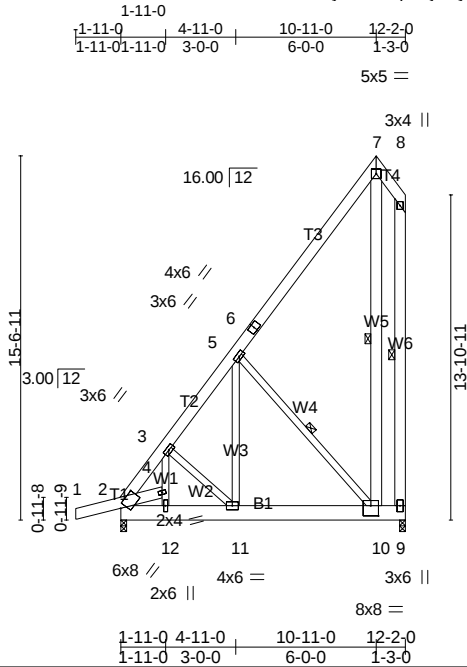


Plate Offsets (X,Y)--	[2:0-10-6,0-1-6], [10:0-4-0,0-5-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	-0.02 10-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(CT)	-0.04 10-11	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.45	Horz(CT)	-0.00 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.07 10-11	>999	240		
									Weight: 190 lb FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x8 SP No.1	Rigid ceiling directly applied or 9-6-8 oc bracing.
WEBS 2x4 SP No.2 *Except*	1 Row at midpt 8-9, 7-10, 5-10
W6,W5: 2x6 SP No.1	
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=577/0-3-0 (min. 0-1-8), 9=507/0-3-0 (min. 0-1-8)
Max Horz 2=529(LC 12)
Max Uplift 2=-110(LC 8), 9=-356(LC 12)
Max Grav 2=577(LC 1), 9=590(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-630/110, 3-5=-573/159
BOT CHORD 2-12=-647/540, 11-12=-656/541, 11-14=-611/493, 10-14=-611/493
WEBS 7-10=-258/203, 5-10=-724/895, 5-11=-620/393

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-10-11 to -0-9-10, Interior(1) -0-9-10 to 10-11-0, Exterior(2) 10-11-0 to 11-11-4 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=110, 9=356.
 - 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.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	H1GE	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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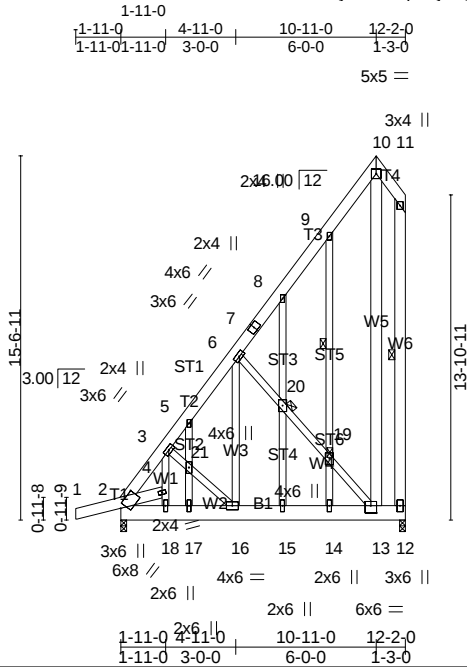


Plate Offsets (X,Y)-- [2:0-10-6,0-1-6], [13:0-3-0,0-3-12]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL) 0.08 14-15	>999 240
TCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(CT) -0.04 14-15	>999 240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.61	Horz(CT) -0.00 12	n/a n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS		
			Weight: 226 lb FT = 25%		

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x8 SP No.1	Rigid ceiling directly applied or 9-3-11 oc bracing.
WEBS 2x4 SP No.2 *Except*	1 Row at midpt 11-12, 9-19
W6,W5: 2x6 SP No.1	1 Brace at Jt(s): 19, 20
OTHERS 2x4 SP No.2	
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS. (lb/size) 2=577/0-3-0 (min. 0-1-8), 12=507/0-3-0 (min. 0-1-8)
Max Horz2=766(LC 12)
Max Uplift2=-142(LC 8), 12=-579(LC 12)
Max Grav2=577(LC 1), 12=564(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-637/115, 3-5=-543/160, 5-6=-472/168, 6-7=-418/233, 7-8=-401/261, 8-9=-264/173,
11-12=-219/274
BOT CHORD 2-18=-711/546, 17-18=-720/546, 16-17=-720/546, 15-16=-643/486, 14-15=-643/486,
13-14=-643/486
WEBS 6-20=-703/931, 19-20=-699/925, 13-19=-733/970, 6-16=-830/556

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch 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. 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.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) except (jt=lb) 2=142, 12=579.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	H2	COMMON	3	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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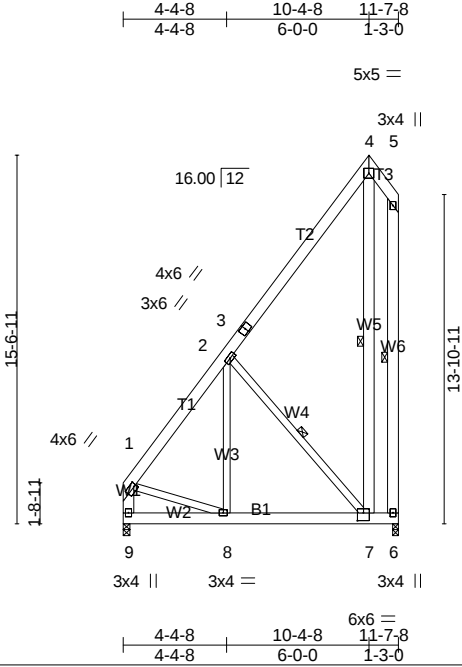


Plate Offsets (X,Y)-- [1:0-1-4,0-2-0], [7:0-3-0,0-4-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.03 7-8 >999 360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.06 7-8 >999 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.00 6 n/a n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.05 7-8 >999 240	Weight: 171 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* W4,W3,W2: 2x4 SP No.2	WEBS 1 Row at midpt 5-6, 4-7, 2-7
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS. (lb/size) 9=447/0-3-8 (min. 0-1-8), 6=447/0-3-0 (min. 0-1-8)
Max Horz 9=479(LC 12)
Max Uplift 6=397(LC 12)
Max Grav 9=512(LC 21), 6=667(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-498/0, 1-9=-503/0
BOT CHORD 8-9=-646/557, 8-11=-411/514, 7-11=-411/514
WEBS 2-7=-746/599, 2-8=-116/278, 1-8=-45/306

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-4-8, Interior(1) 4-4-8 to 10-4-8, Exterior(2) 10-4-8 to 11-4-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=397.
 - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	K1	COMMON	17	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:39 2024 Page 1

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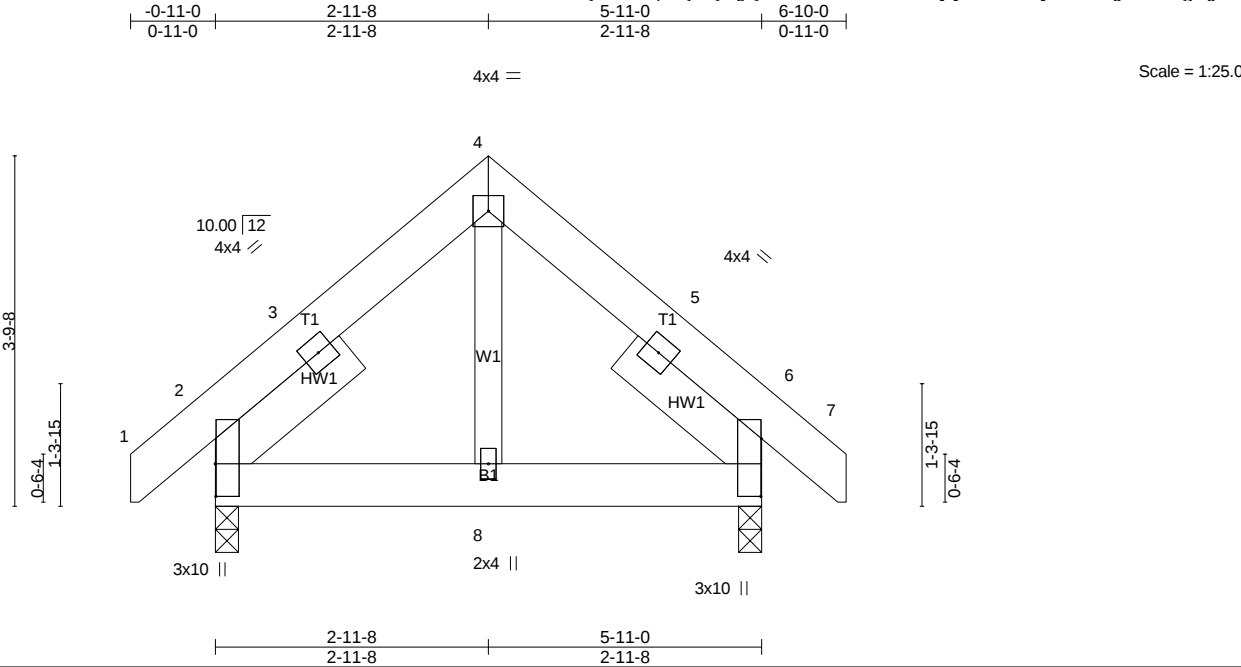


Plate Offsets (X,Y)-- [2:0-4-4,0-0-1], [6:0-7-8,0-0-1]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	0.00	11	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS						Weight: 52 lb	FT = 25%

LUMBER- TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 SLIDER Left 2x6 SP No.1 1-11-0, Right 2x6 SP No.1 1-11-0	BRACING- TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied.
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MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=289/0-3-0 (min. 0-1-8), 6=289/0-3-0 (min. 0-1-8)
Max Horz 2=89(LC 11)
Max Uplift2=-50(LC 8), 6=-50(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-178/269, 4-5=-178/269

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
 - 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.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	L1	COMMON	4	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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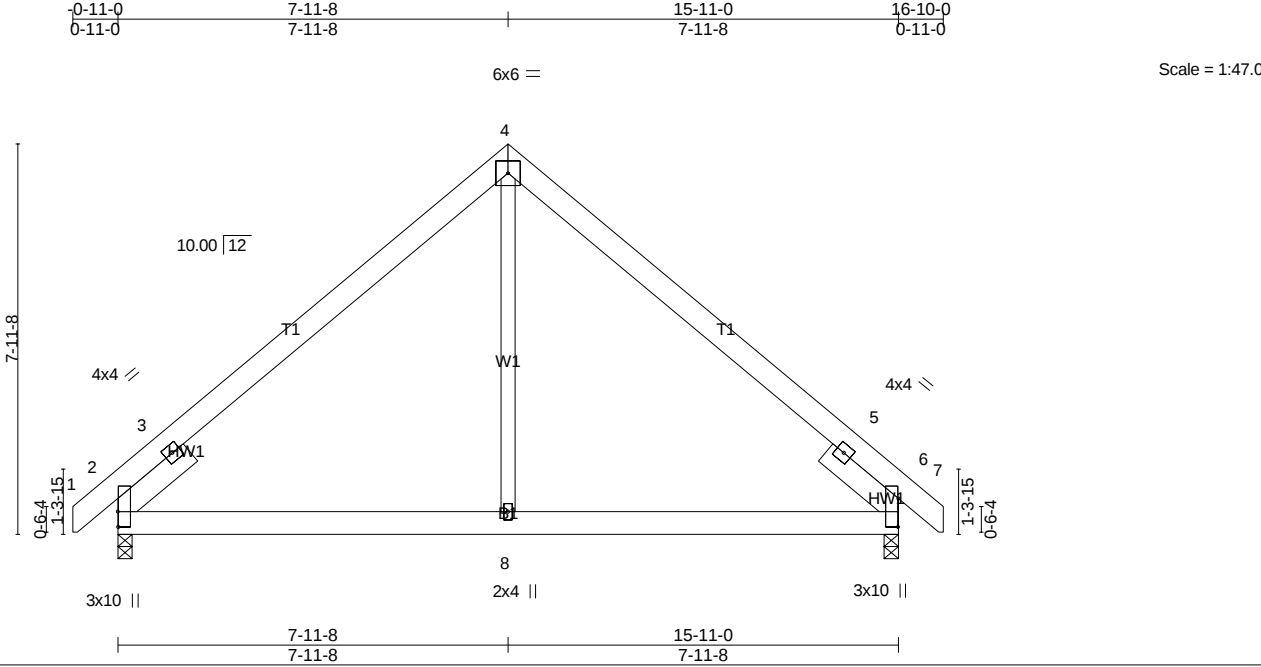


Plate Offsets (X,Y)--		[2:0-3-12,0-0-1], [6:0-7-0,0-0-1]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.19
TCDL 10.0	Lumber DOL	1.15	BC 0.26
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.03 8-11 >999 360
		Vert(CT)	-0.05 8-11 >999 240
		Horz(CT)	0.02 6 n/a n/a
		Wind(LL)	0.03 8-11 >999 240
		PLATES	GRIP
		MT20	244/190
		Weight: 112 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	
SLIDER Left 2x6 SP No.1 1-11-0, Right 2x6 SP No.1 1-11-0	

REACTIONS. (lb/size) 2=689/0-3-8 (min. 0-1-8), 6=689/0-3-8 (min. 0-1-8)
Max Horz 2=-205(LC 10)
Max Uplift 2=-74(LC 12), 6=-74(LC 13)
Max Grav 2=814(LC 19), 6=814(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-280/5, 3-17=-822/223, 4-17=-659/257, 4-18=-659/257, 5-18=-822/223, 5-6=-280/5
BOT CHORD 2-19=0/591, 8-19=0/591, 8-20=0/591, 6-20=0/591
WEBS 4-8=0/551

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-7 to 3-6-6, Interior(1) 3-6-6 to 7-11-8, Exterior(2) 7-11-8 to 12-4-5, Interior(1) 12-4-5 to 16-9-7 zone;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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 2, 6.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

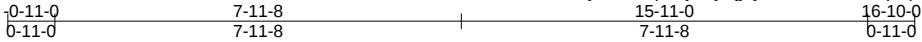
LOAD CASE(S) Standard

Job J0924-4915	Truss L1GE	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	Rhodall Residence
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC 28309, David Landry

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5x5 =

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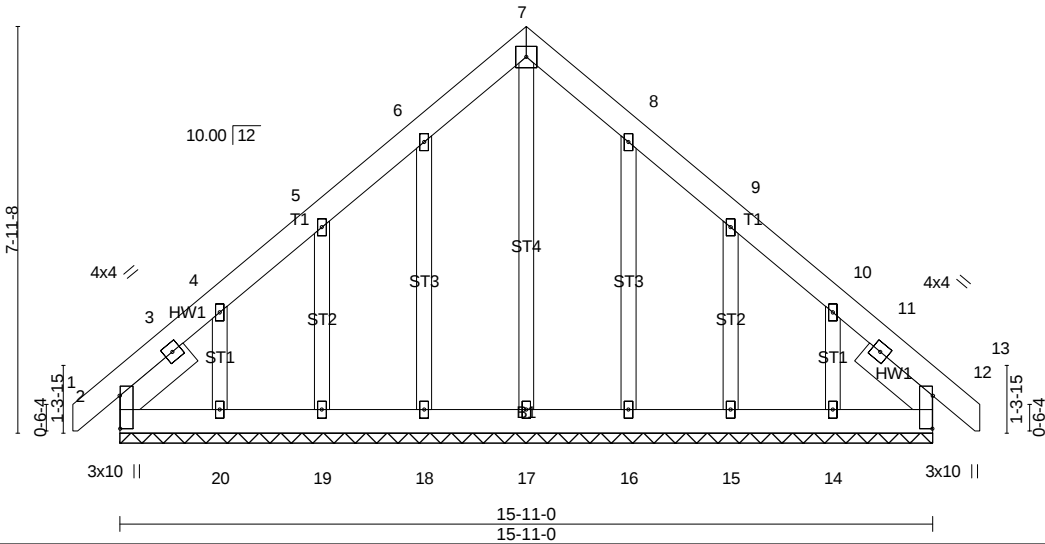


Plate Offsets (X,Y)--	[2:0-7-12,0-0-1], [12:0-7-12,0-0-1]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	-0.00	12	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	12	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.00	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							
										Weight: 144 lb FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
SLIDER Left 2x6 SP No.1 1-9-7, Right 2x6 SP No.1 1-9-7	

REACTIONS. All bearings 15-11-0.
(lb) - Max Horz 2=-258(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 12 except 2=-105(LC 8), 18=-116(LC 12), 19=-134(LC 12),
20=-252(LC 12), 16=-110(LC 13), 15=-138(LC 13), 14=-236(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 17, 18, 19, 20, 16, 15, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-285/193, 3-4=-263/198
WEBS 4-20=-241/252

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 except (jt=lb) 2=105, 18=116, 19=134, 20=252, 16=110, 15=138, 14=236.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 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	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	PB	PIGGYBACK	23	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:41 2024 Page 1

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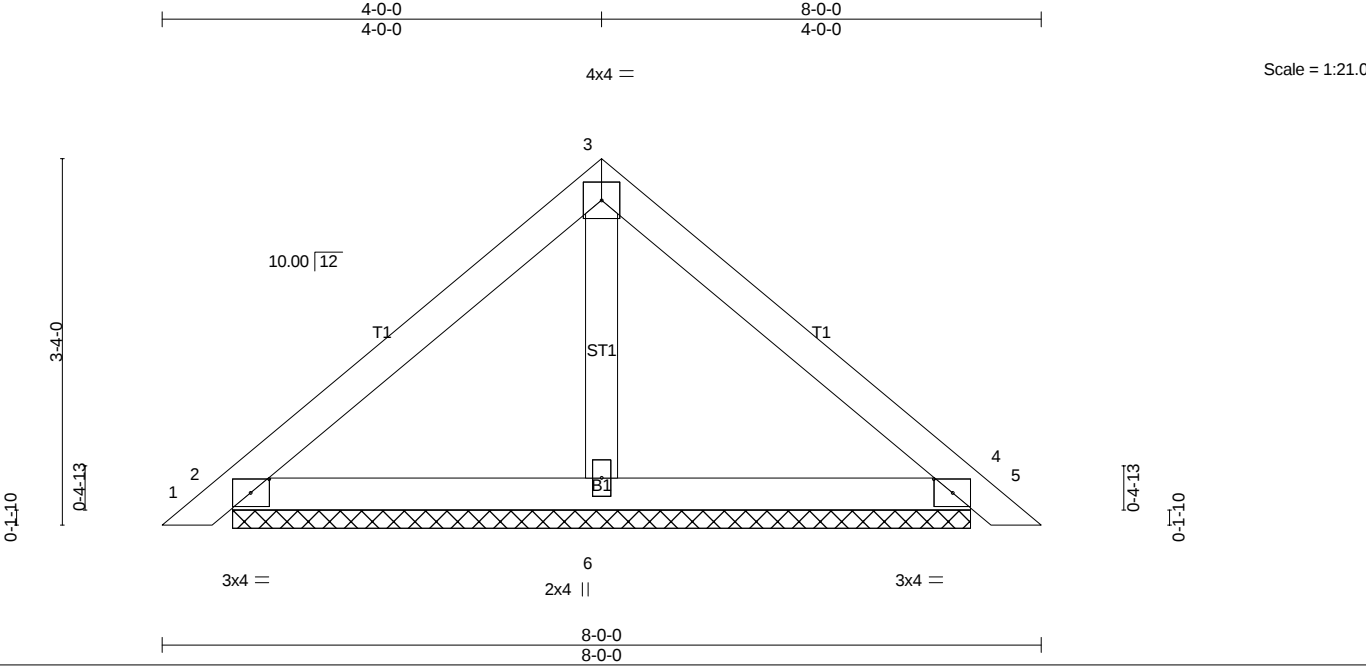


Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [4:0-2-1,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	0.01	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 29 lb	FT = 25%

LUMBER-	BRACING-	
TOP CHORD 2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6'-0" oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10'-0" oc bracing.
OTHERS 2x4 SP No.2		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=182/6-8-9 (min. 0-1-8), 4=182/6-8-9 (min. 0-1-8), 6=223/6-8-9 (min. 0-1-8)
Max Horz 2=-87(LC 10)
Max Uplift 2=-43(LC 12), 4=-50(LC 13)

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=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;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 30.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" 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.
 - 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 Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	T1GE	COMMON SUPPORTED GAB	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Sep 11 15:39:42 2024 Page 1

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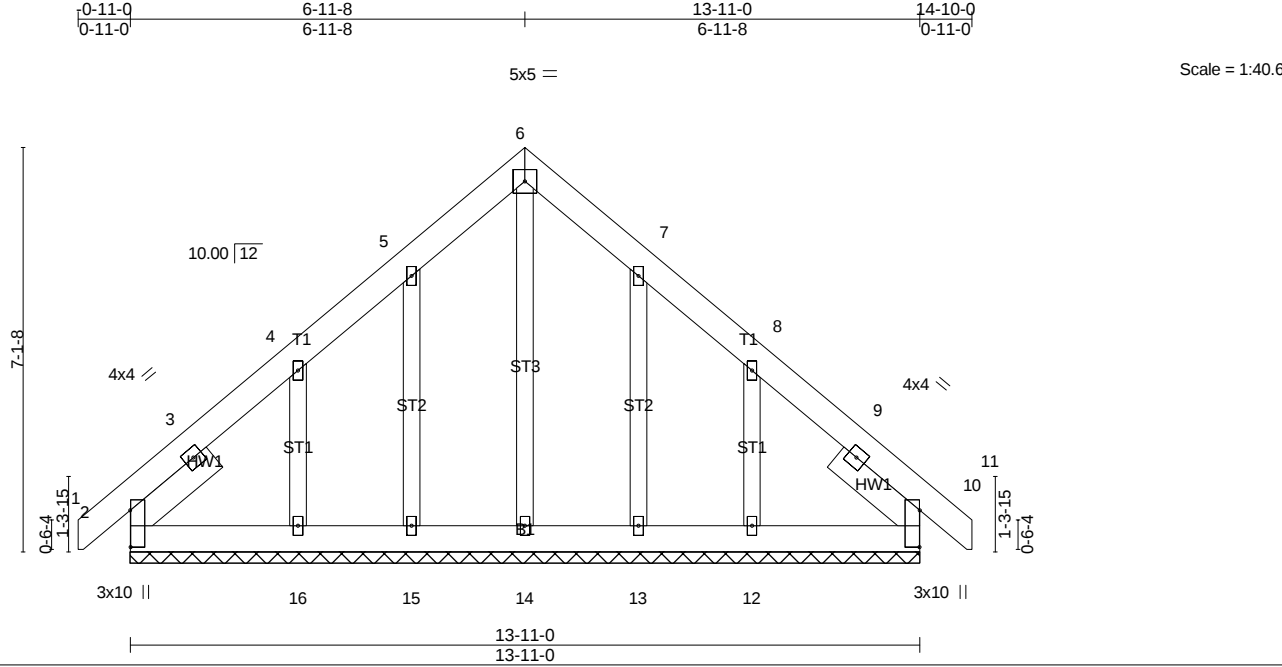


Plate Offsets (X,Y)-- [2:0-7-12,0-0-1], [10:0-7-12,0-0-1]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	0.00	10	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	10	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							
										Weight: 122 lb FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
SLIDER Left 2x6 SP No.1 1-11-0, Right 2x6 SP No.1 1-11-0	

REACTIONS. All bearings 13-11-0.
(lb) - Max Horz 2=183(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 13 except 16=167(LC 12), 12=162(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 13 except 16=277(LC 19), 12=269(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-16=-290/251, 8-12=-290/251

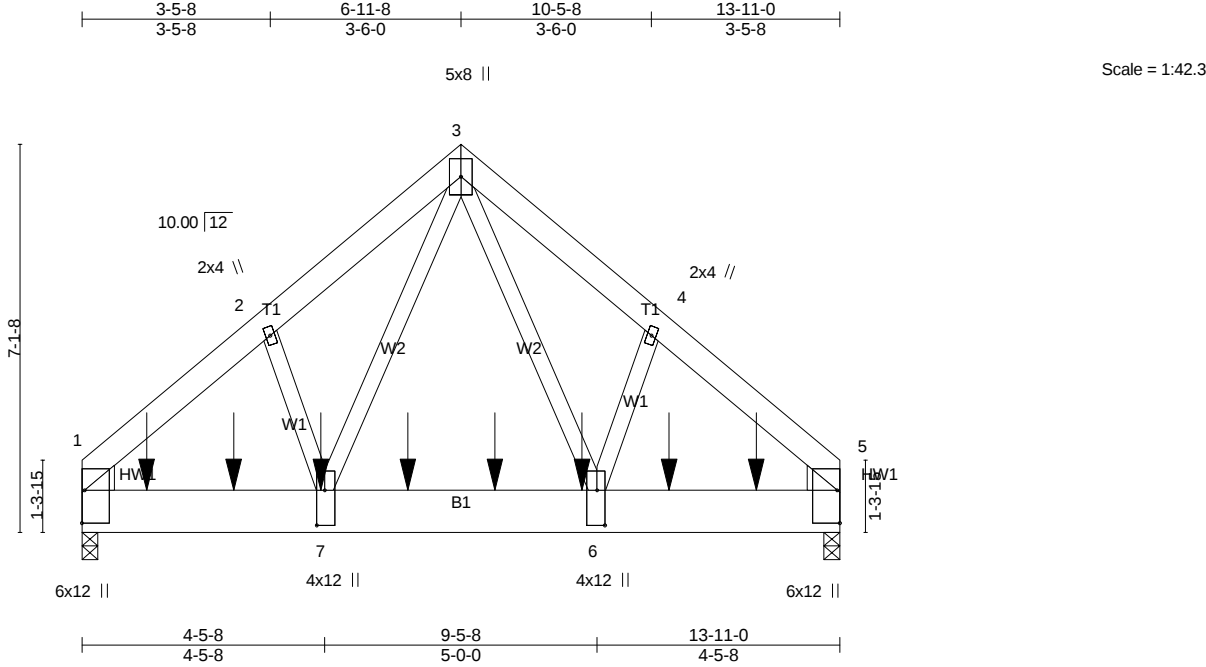
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -0-10-7 to 3-6-6, Exterior(2) 3-6-6 to 6-11-8, Corner(3) 6-11-8 to 11-4-5, Exterior(2) 11-4-5 to 14-9-7 zone;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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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, 10, 15, 13 except (jt=lb) 16=167, 12=162.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job J0924-4915	Truss T1-GR	Truss Type Common Girder	Qty 1	Ply 2	Rhodall Residence
Comtech, Inc., Fayetteville, NC 28309, David Landry			Job Reference (optional)		

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*** Design Problems ***

REVIEW REQUIRED

Check Girder Loads. - Truss to Truss loading needs to be reset.

Plate Offsets (X,Y)-- [1:0-7-4,0-0-9], [5:0-7-4,0-0-9], [6:0-7-12,0-1-12], [7:0-7-12,0-1-12]		
LOADING (psf)	SPACING-	2-0-0
TCLL 20.0	Plate Grip DOL	1.15
TCDL 10.0	Lumber DOL	1.15
BCLL 0.0 *	Rep Stress Incr	NO
BCDL 10.0	Code IRC2015/TPI2014	

Job J0924-4915	Truss V1	Truss Type VALLEY	Qty 1	Ply 1	Rhodall Residence
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC 28309, David Landry

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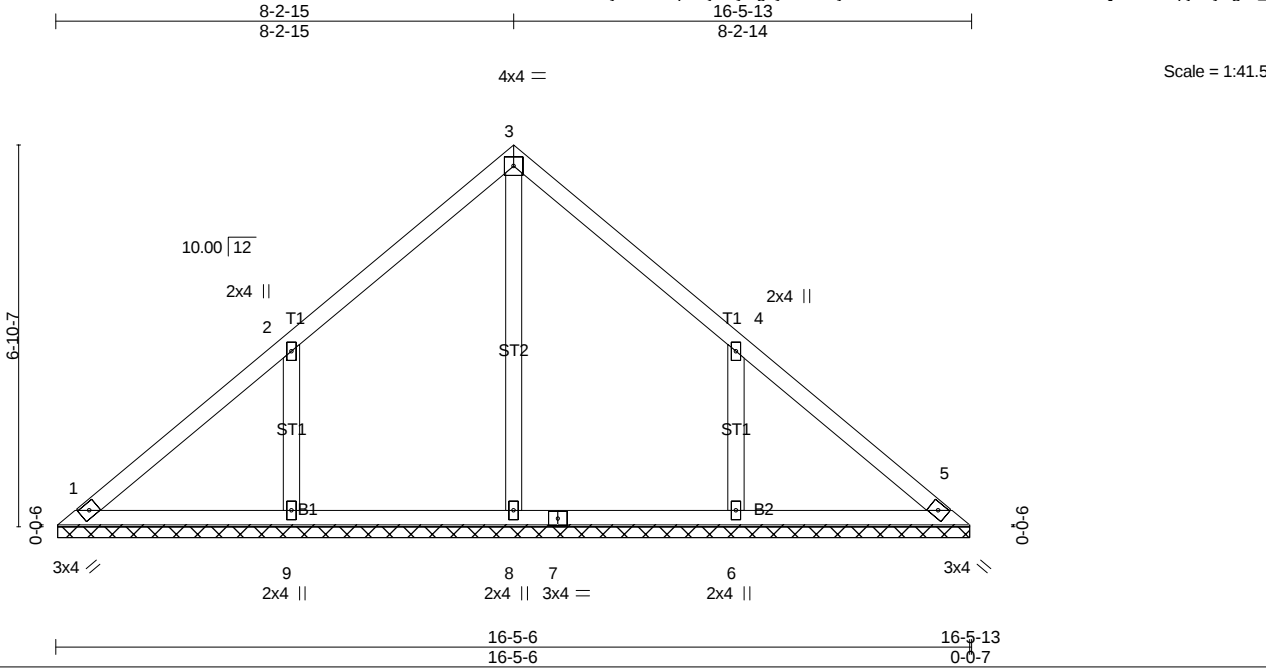


Plate Offsets (X,Y)--	[4:0-0-0,0-0-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 73 lb	FT = 25%

LUMBER- TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 OTHERS 2x4 SP No.2	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.
		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 16-4-15.
(lb) - Max Horz 1=182(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-191(LC 12), 6=-191(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=418(LC 22), 9=478(LC 19), 6=478(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-418/313, 4-6=-418/313

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 8-2-15, Exterior(2) 8-2-15 to 12-7-11, Interior(1) 12-7-11 to 16-1-0 zone;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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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=191, 6=191.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

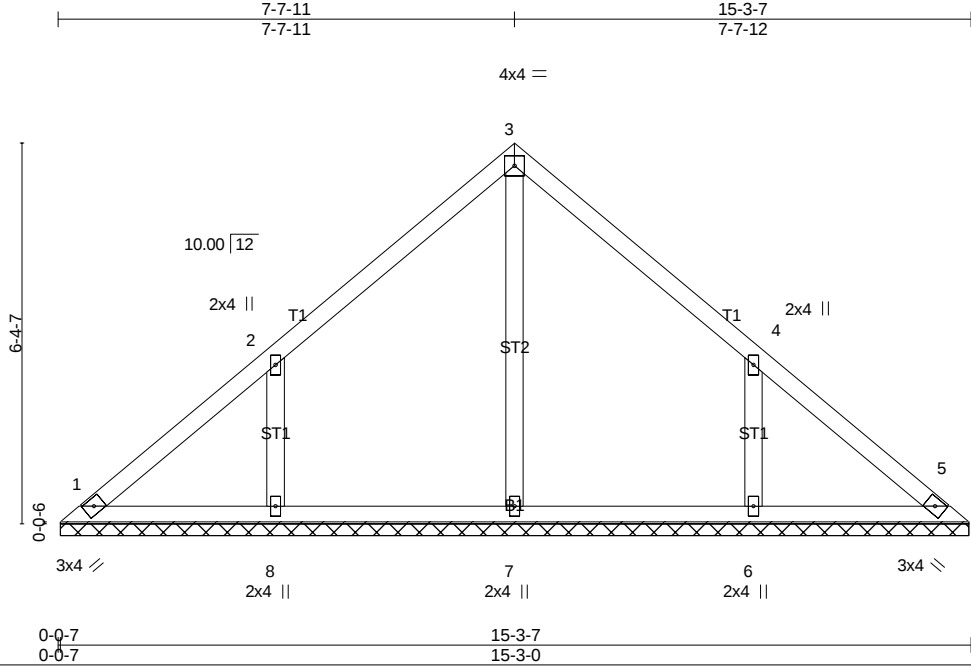
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	V2	VALLEY	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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Scale = 1:38.6

Plate Offsets (X,Y)--	[4:0-0-0,0-0-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 67 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 15-2-8.
(lb) - Max Horz 1=168(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-177(LC 12), 6=-177(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=410(LC 19), 8=424(LC 19), 6=424(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-389/298, 4-6=-389/298

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 7-7-11, Exterior(2) 7-7-11 to 12-0-8, Interior(1) 12-0-8 to 14-10-10 zone;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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 8=177, 6=177.
 - Non Standard bearing condition. Review required.
 - 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 J0924-4915	Truss V3	Truss Type VALLEY	Qty 1	Ply 1	Rhodall Residence
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC 28309, David Landry

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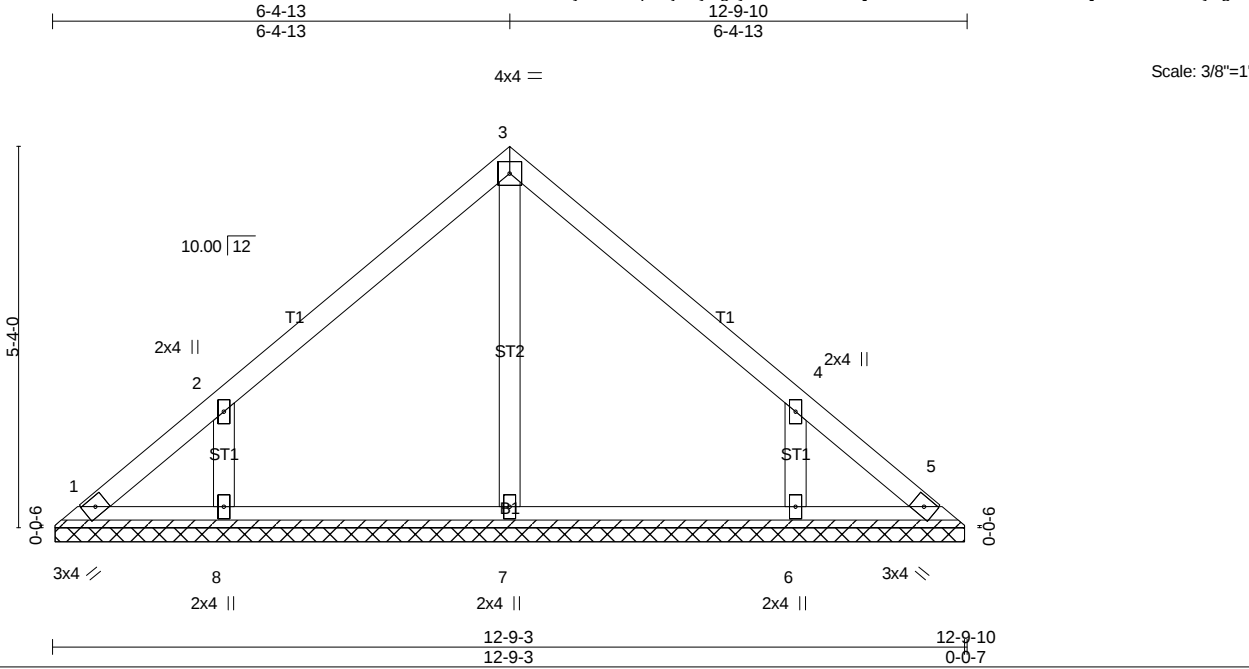


Plate Offsets (X,Y)--	[4:0-0-0,0-0-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 53 lb	FT = 25%

LUMBER- TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 OTHERS 2x4 SP No.2	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.
		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 12-8-12.
(lb) - Max Horz 1=-139(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-157(LC 12), 6=-157(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=341(LC 19), 6=341(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-351/285, 4-6=-351/285

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 6-4-13, Exterior(2) 6-4-13 to 10-9-10, Interior(1) 10-9-10 to 12-4-13 zone;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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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=157, 6=157.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

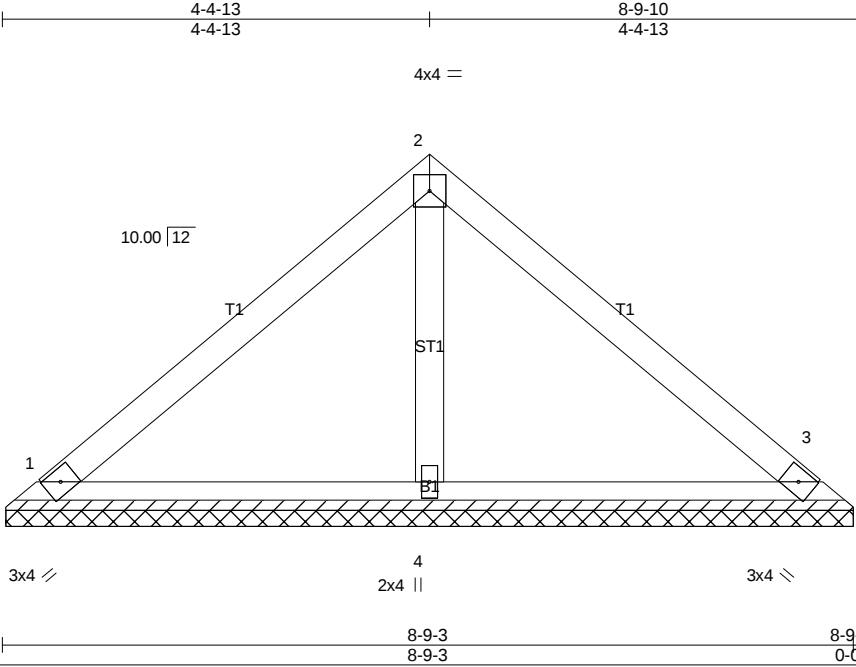
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	V5	VALLEY	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 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 0.12	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 33 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD
BOT CHORD 2x4 SP No.1	BOT CHORD
OTHERS 2x4 SP No.2	Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=185/8-8-12 (min. 0-1-8), 3=185/8-8-12 (min. 0-1-8), 4=270/8-8-12 (min. 0-1-8)
Max Horz 1=-93(LC 8)
Max Uplift1=-40(LC 13), 3=-49(LC 13)

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=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

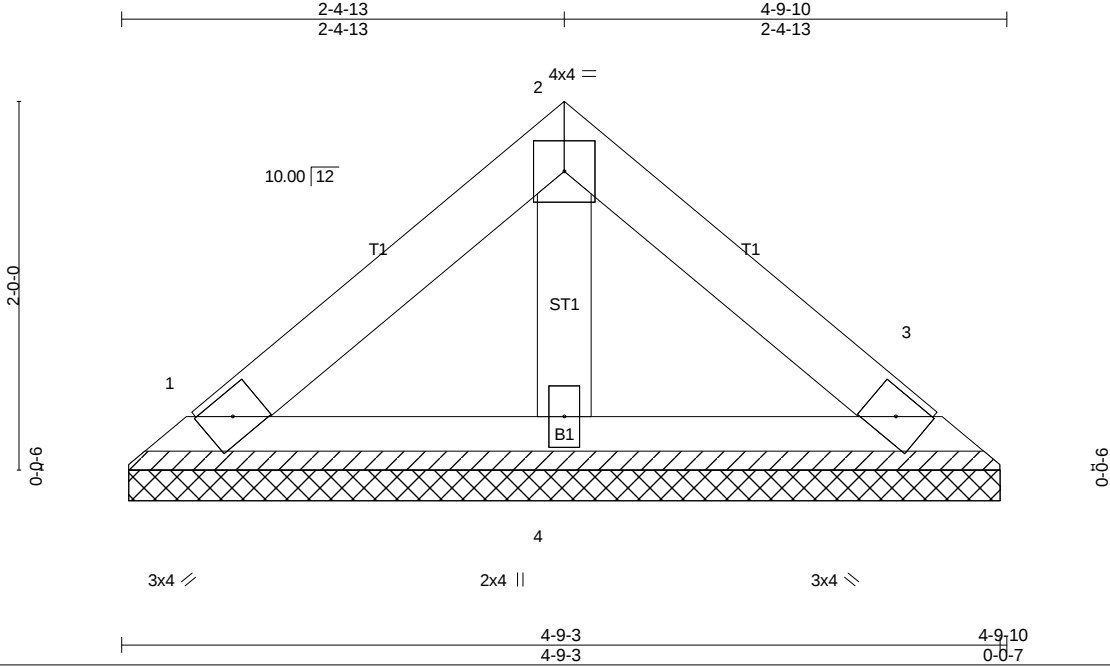
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rhodall Residence
J0924-4915	V7	VALLEY	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 17 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD
BOT CHORD 2x4 SP No.1	BOT CHORD
OTHERS 2x4 SP No.2	Structural wood sheathing directly applied or 4-9-10 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=92/4-8-12 (min. 0-1-8), 3=92/4-8-12 (min. 0-1-8), 4=135/4-8-12 (min. 0-1-8)
Max Horz 1=-46(LC 8)
Max Uplift 1=-20(LC 13), 3=-24(LC 13)

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=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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, 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