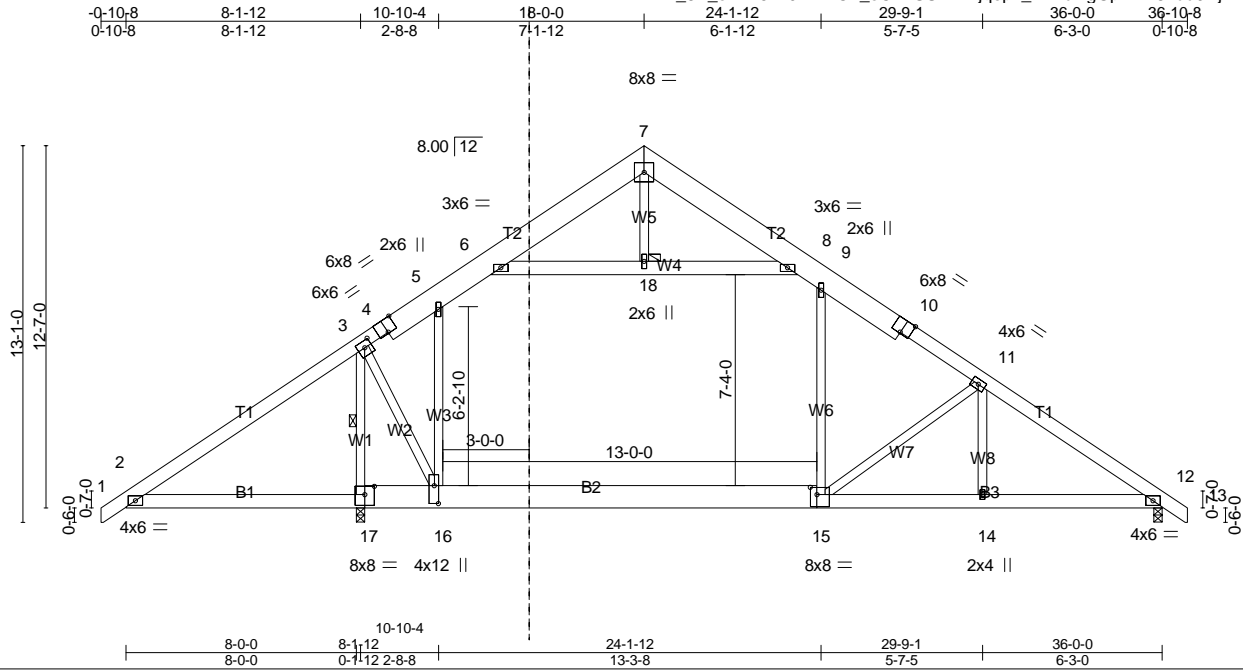


Job GARRETT	Truss A1	Truss Type FINK	Qty 15	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sun Jan 26 09:29:47 2025 Page 1
ID: I_8V_on2B54z0E?fEOh_oCzwSUE-H?jqepv_RzZuNgGpPAE87du9DjnfVmUAJBj6HEzrXyU



Scale = 1:80.1

Plate Offsets (X,Y)-- [3:0-3-0,0-2-12], [4:0-4-0,Edge], [10:0-4-0,Edge], [15:0-2-12,0-3-0], [16:0-7-8,0-1-12], [17:0-4-0,0-3-8]

LOADING (psf)	SPACING-	CS.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.60	Vert(LL) -0.29	15	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.94	Vert(CT) -0.56	14-15	>589	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.79	Horz(CT) 0.02	12	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.25	14-15	>999	240		
	Code IRC2015/TPI2014						Weight: 332 lb	FT = 25%

LUMBER-
TOP CHORD 2x10 SP No.1 *Except*
T1: 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
B2: 2x10 SP No.1
WEBS 2x4 SP No.2 *Except*
W4: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 3-17
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) 12=1047/0-3-8 (min. 0-1-8), 17=1931/0-3-8 (min. 0-2-9)
Max Horz 17=297(LC 11)
Max Uplift 12=-85(LC 13), 17=-116(LC 12)
Max Grav 12=1198(LC 20), 17=2195(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-459/545, 3-19=-435/699, 3-4=-663/122, 4-5=-647/136, 5-6=-1030/211,
6-20=-546/200, 7-20=-508/234, 7-21=-251/153, 8-21=-288/122, 8-9=-696/157,
9-10=-999/129, 10-11=-1144/117, 11-22=-1647/221, 12-22=-1804/197
BOT CHORD 2-23=-489/496, 17-23=-487/497, 16-17=-599/499, 15-16=0/833, 14-15=-48/1411,
12-14=-48/1413
WEBS 9-15=0/613, 11-14=-34/367, 5-16=-997/486, 6-18=-600/134, 8-18=-600/134,
3-17=-2930/726, 3-16=-573/2855, 11-15=-960/354

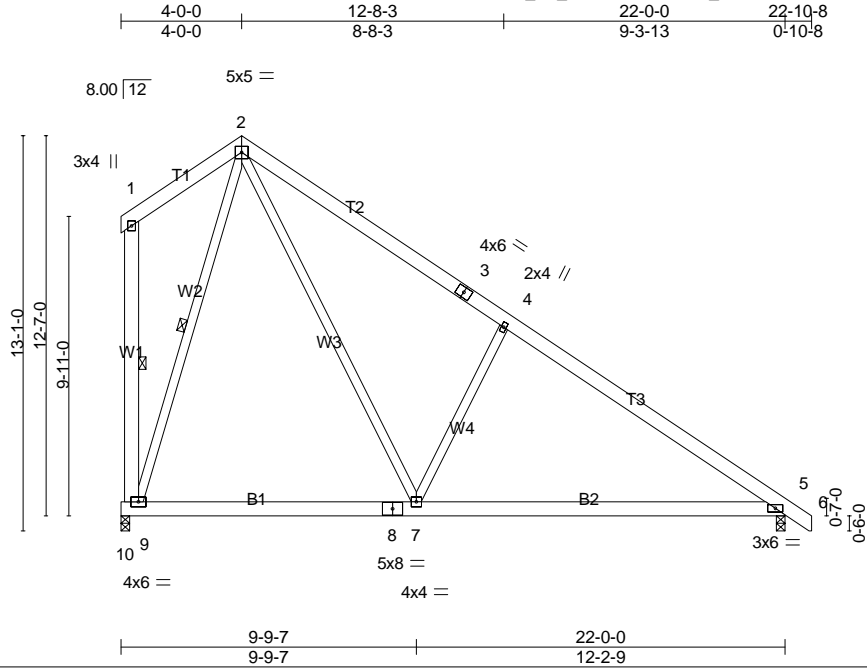
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-10-1 to 3-6-12, Interior(1) 3-6-12 to 18-0-0, Exterior(2) 18-0-0 to 22-4-13, Interior(1) 22-4-13 to 36-10-1 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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 BCCL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 17=116.
 - 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 GARRETT	Truss A2	Truss Type COMMON	Qty 8	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sun Jan 26 09:29:48 2025 Page 1
ID: L_8V_on2B54z0E?fEOh_oCzwSUE-IBHDr8vcCHhl_pr?ztINfqRNR7CbEFIKYr2gqgrXux



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 0.37	Vert(LL) -0.15 5-7 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.58	Vert(CT) -0.30 5-7 >864 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.66	Horz(CT) 0.01 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05 5-7 >999 240		
				Weight: 186 lb	FT = 25%

LUMBER-
TOP CHORD 2x6 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 or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-9, 2-9

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

REACTIONS. (lb/size) 9=866/0-3-8 (min. 0-1-8), 5=920/0-3-8 (min. 0-1-8)
Max Horz 9=-356(LC 13)
Max Uplift 9=-133(LC 13), 5=-17(LC 13)
Max Grav 9=1153(LC 20), 5=1057(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-932/222, 3-11=-954/193, 3-4=-1075/169, 4-12=-1148/112, 5-12=-1223/74
BOT CHORD 9-13=-139/371, 13-14=-139/371, 8-14=-139/371, 7-8=-139/371, 7-15=0/921, 15-16=0/921, 5-16=0/921
WEBS 2-7=-202/1221, 4-7=-640/361, 2-9=-943/260

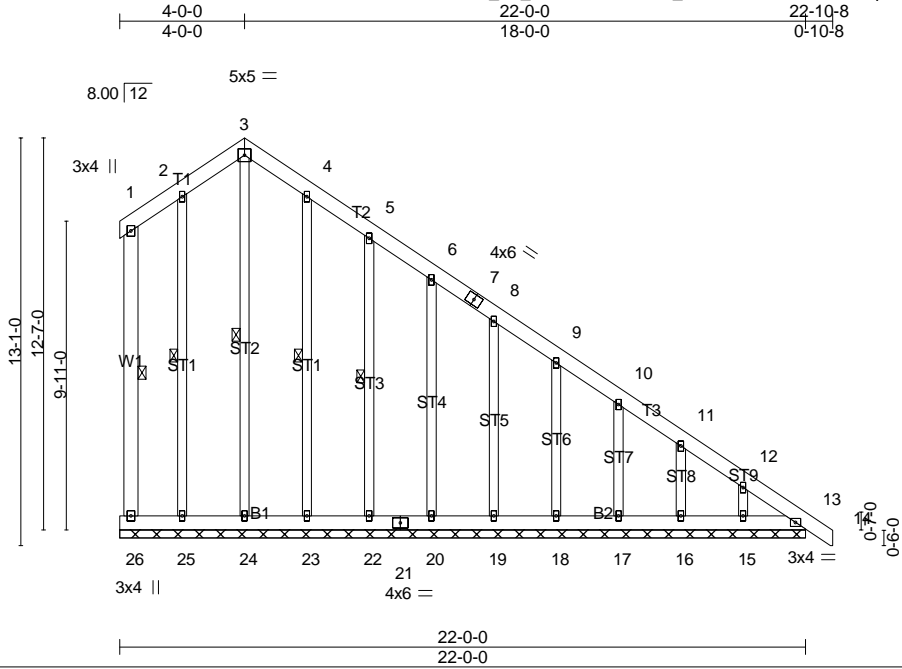
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 8-4-13, Interior(1) 8-4-13 to 22-10-1 zone; C-C for members and forces & 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 BC DL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 9=133.
 - 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 GARRETT	Truss A2GE	Truss Type GABLE	Qty 1	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sun Jan 26 09:29:49 2025 Page 1
 ID: I_8V_on2B54z0E?fEOh_oCzwSUE-DNr3UwEzbpczcQCXbGcC2_dIWg9zqnTnVoDM6zrXuV



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 13 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00 13 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.16	Horz(CT) 0.01 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			Weight: 239 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 10-0-0 oc bracing.
WEBS 2x6 SP No.1	WEBS 1 Row at midpt 1-26, 3-24, 2-25, 4-23, 5-22
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 22-0-0.
 (lb) - Max Horz 26=-520(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 26, 13, 25, 23, 22, 20, 19, 18, 17, 16 except 15=-106(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 26, 24, 25, 23, 22, 20, 19, 18, 17, 16, 15 except 13=282(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 8-9=-265/170, 9-10=-340/225, 10-11=-415/284, 11-12=-491/343, 12-13=-576/417
 BOT CHORD 25-26=-367/519, 24-25=-367/519, 23-24=-367/519, 22-23=-367/519, 21-22=-367/519,
 20-21=-367/519, 19-20=-367/519, 18-19=-367/519, 17-18=-367/519, 16-17=-367/519,
 15-16=-367/519, 13-15=-367/519

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-4-4 to 8-4-13, Exterior(2) 8-4-13 to 22-10-1 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) 26, 13, 25, 23, 22, 20, 19, 18, 17, 16 except (jt=lb) 15=106.
 - 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

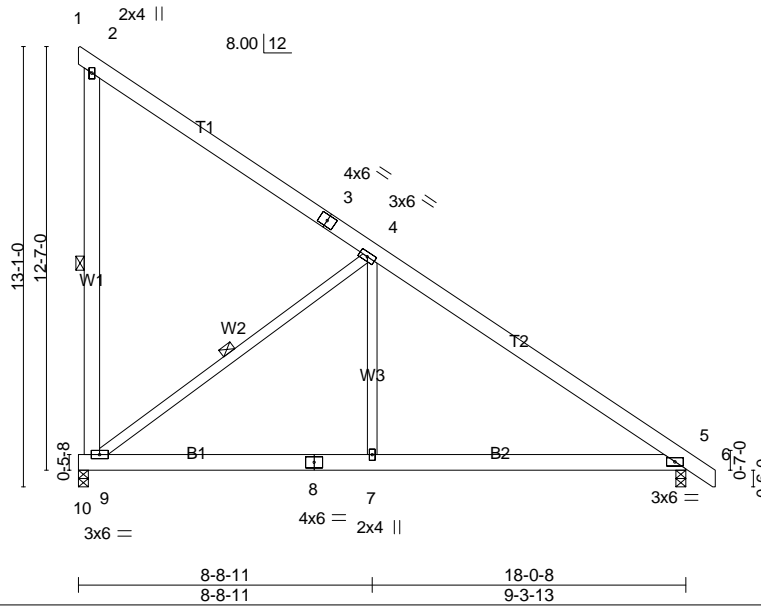
Job GARRETT	Truss A3	Truss Type COMMON	Qty 4	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sun Jan 26 09:29:49 2025 Page 1
ID: I_8V_on2B54z0E?fEOh_oCzwSUE-DNr3UwEzbpczQCXbGcC2_YIWbpzIVTnVoDM6zrXuV

0-0-8 8-8-11 18-0-8 18-11-0
0-0-8 8-8-3 9-3-13 0-10-8

Scale = 1:68.5



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 0.37	Vert(LL)	-0.05	5-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	-0.10	5-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.01	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.03	5-7	>999	Weight: 146 lb	FT = 25%

LUMBER-
TOP CHORD 2x6 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 or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-9, 4-9

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

REACTIONS. (lb/size) 9=729/0-3-8 (min. 0-1-8), 5=760/0-3-8 (min. 0-1-8)
Max Horz 9=-405(LC 13)
Max Uplift 9=-210(LC 13)
Max Grav 9=933(LC 20), 5=862(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-12=-889/0, 5-12=-997/0
BOT CHORD 9-13=0/740, 8-13=0/740, 7-8=0/740, 7-14=0/740, 5-14=0/740
WEBS 4-7=0/579, 4-9=-1047/296

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-4 to 4-5-1, Interior(1) 4-5-1 to 18-10-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 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.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=210.
 - 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

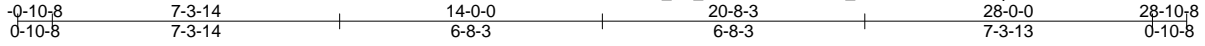
LOAD CASE(S) Standard

Job GARRETT	Truss B1	Truss Type FINK	Qty 5	Ply 1	Job Reference (optional)
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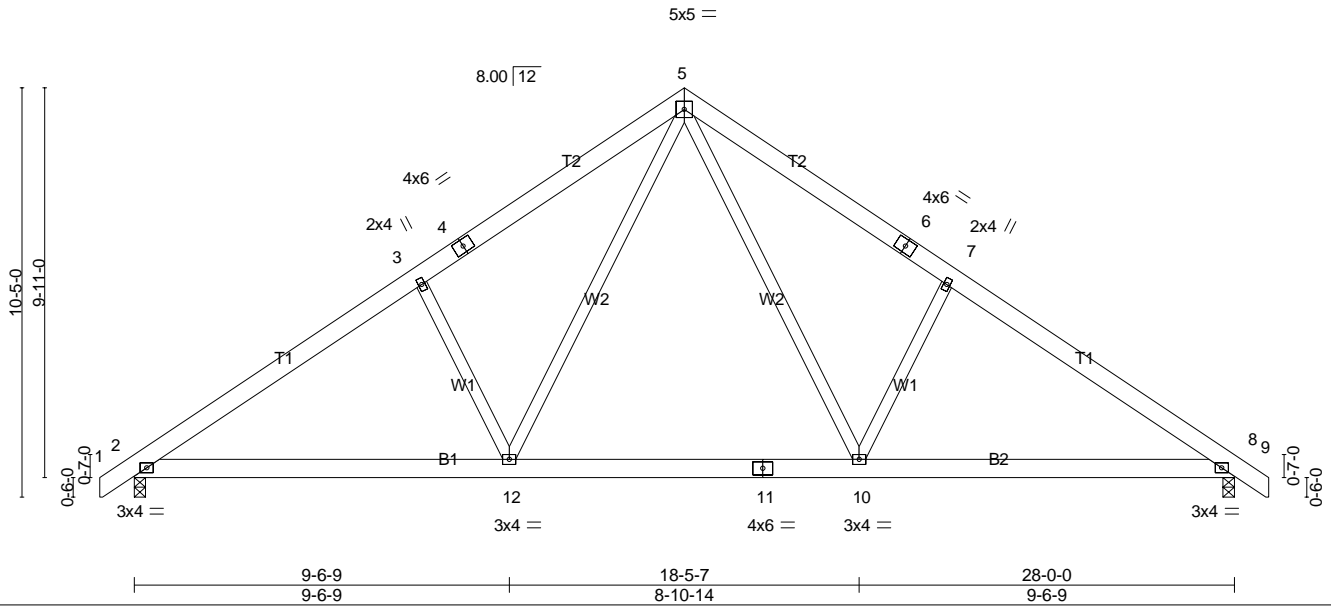
Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sun Jan 26 09:29:50 2025 Page 1

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Scale = 1:58.6



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 0.21	Vert(LL)	-0.12 10-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.35	Vert(CT)	-0.16 10-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.29	Horz(CT)	0.03 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.03 2-12	>999	240		
								Weight: 195 lb	FT = 25%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-10-13 oc purlins.
 BOT CHORD 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) 2=1167/0-3-8 (min. 0-1-8), 8=1167/0-3-8 (min. 0-1-8)
 Max Horz 2=237(LC 11)
 Max Uplift 2=-72(LC 12), 8=-72(LC 13)
 Max Grav 2=1200(LC 19), 8=1200(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-15=-1674/310, 3-15=-1576/337, 3-4=-1534/382, 4-16=-1468/393, 5-16=-1430/422,
 5-17=-1430/422, 6-17=-1469/393, 6-7=-1535/382, 7-18=-1577/337, 8-18=-1674/310
 BOT CHORD 2-12=-141/1457, 12-13=0/948, 11-13=0/948, 11-14=0/948, 10-14=0/948, 8-10=-150/1300
 WEBS 3-12=-467/278, 5-12=-155/779, 5-10=-155/779, 7-10=-467/278

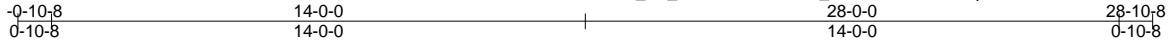
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-1 to 3-6-12, Interior(1) 3-6-12 to 14-0-0, Exterior(2) 14-0-0 to 18-4-13, Interior(1) 18-4-13 to 28-10-1 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) 2, 8.
 - 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 GARRETT	Truss B1GE	Truss Type GABLE	Qty 1	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sun Jan 26 09:29:50 2025 Page 1
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5x5 =

Scale = 1:60.4

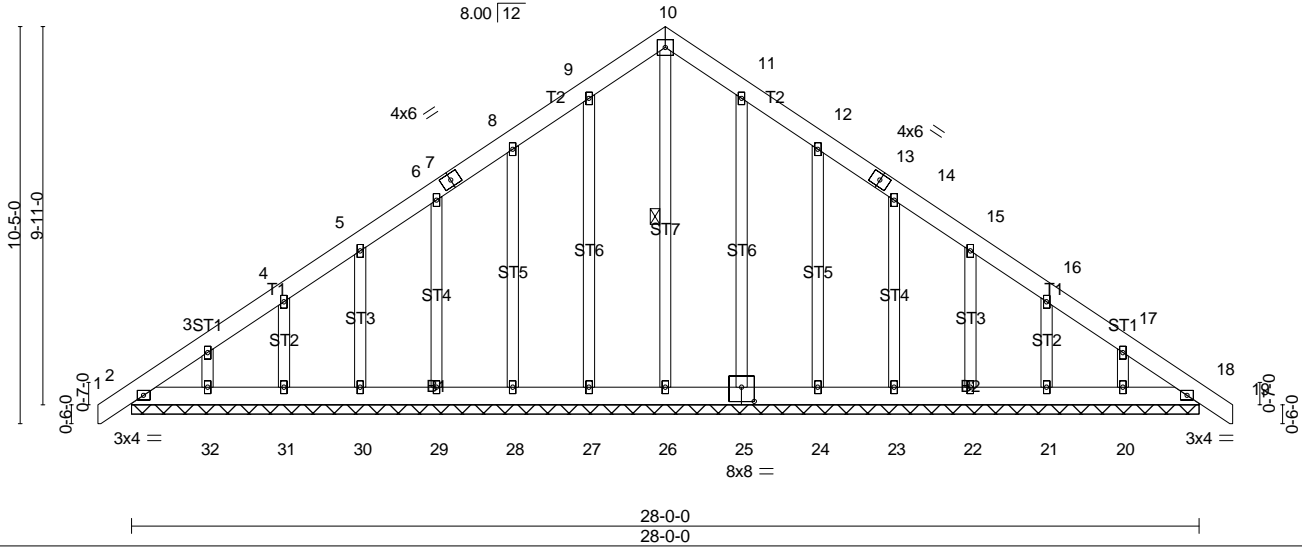


Plate Offsets (X,Y)-- [25:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.04	Vert(LL) 0.00	18	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT) 0.00	18	n/r	120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.15	Horz(CT) 0.01	18	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014							
							Weight: 241 lb	FT = 25%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 10-26

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

REACTIONS. All bearings 28-0-0.
(lb) - Max Horz 2=-296(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 27, 28, 29, 30, 31, 32, 25, 23, 22, 21, 20 except 24=-101(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 18, 26, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-294/220, 9-10=-224/252, 10-11=-224/252

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-1 to 3-6-12, Exterior(2) 3-6-12 to 14-0-0, Corner(3) 14-0-0 to 18-4-13, Exterior(2) 18-4-13 to 28-10-1 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, 18, 27, 28, 29, 30, 31, 32, 25, 23, 22, 21, 20 except (jt=lb) 24=101.
 - 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.

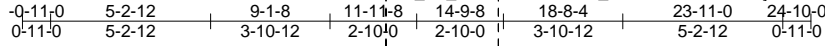
LOAD CASE(S) Standard

Job GARRETT	Truss C1	Truss Type ATTIC	Qty 1	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sun Jan 26 09:29:51 2025 Page 1

ID: 1_8V_on2B54z0E?fEOh_oCzwSUE-9mzLUAYVVC3KrHaee0J4HT3pbkAdRfXmEpHKQ?zrXuU



Scale = 1:75.2

Plate Offsets (X,Y)-- [2:0-2-4,0-1-12], [3:0-4-0,Edge], [4:0-11-4,0-1-8], [6:0-4-0,Edge], [8:0-11-4,0-1-8], [9:0-4-0,Edge], [10:0-2-4,0-1-12], [13:0-5-0,0-7-4], [15:0-5-0,0-7-4]

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 0.70	Vert(LL) -0.24	13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.81	Vert(CT) -0.39	13-15	>726	240		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.46	Horz(CT) 0.01	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL) 0.08	13-15	>999	240		
								Weight: 268 lb	FT = 25%

LUMBER-
TOP CHORD 2x10 SP No.1 *Except*
T1: 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
W2: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-1-6 oc bracing.

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

REACTIONS. (lb/size) 16=1332/0-3-8 (min. 0-1-15), 12=1332/0-3-8 (min. 0-1-15)
Max Horz 16=-407(LC 10)
Max Grav 16=1629(LC 20), 12=1629(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-17=-1960/0, 3-17=-1832/0, 3-4=-1789/0, 4-18=-1258/103, 5-18=-1113/153, 5-6=-9/408, 6-7=-9/408, 7-19=-1113/153, 8-19=-1258/103, 8-9=-1788/0, 9-20=-1831/0, 10-20=-1959/0, 2-16=-1820/11, 10-12=-1821/11
BOT CHORD 15-16=-399/657, 14-15=0/1328, 13-14=0/1328, 12-13=-116/360
WEBS 5-7=-1663/154, 4-15=0/927, 8-13=0/927, 2-15=0/1110, 10-13=-10/1119

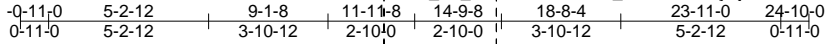
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 11-11-8, Exterior(2) 11-11-8 to 16-4-5, Interior(1) 16-4-5 to 24-9-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s). 4-15, 8-13
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job GARRETT	Truss C2	Truss Type ATTIC	Qty 3	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sun Jan 26 09:29:52 2025 Page 1
 ID: 18V_on2B54z0E?fEOh_oCzwSUE-dyXjhWz7GWBATR9nCjQJqgc_LkWsA6nwTT0tzRzrXuT



Scale = 1:75.2

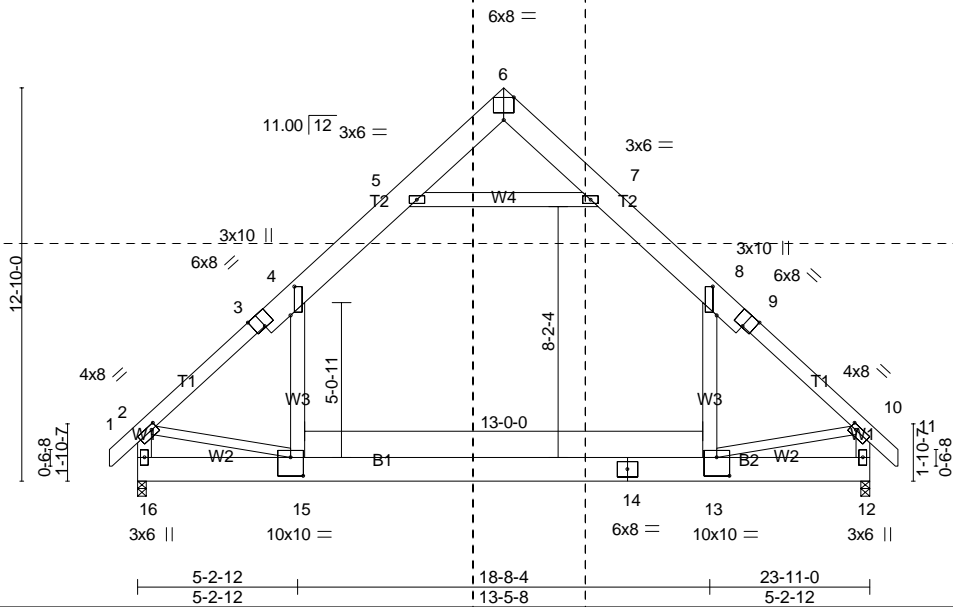


Plate Offsets (X,Y)-- [2:0-2-4,0-1-12], [3:0-4-0,Edge], [4:0-11-4,0-1-8], [6:0-4-0,Edge], [8:0-11-4,0-1-8], [9:0-4-0,Edge], [10:0-2-4,0-1-12], [13:0-5-0,0-7-4], [15:0-5-0,0-7-4]

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 0.70	Vert(LL)	-0.24 13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.81	Vert(CT)	-0.39 13-15	>726	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.46	Horz(CT)	0.01 12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.06 13-15	>999	240		
								Weight: 268 lb	FT = 25%

LUMBER-
 TOP CHORD 2x10 SP No.1 *Except*
 T1: 2x6 SP No.1
 BOT CHORD 2x10 SP No.1
 WEBS 2x6 SP No.1 *Except*
 W2: 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-0-10 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-1-6 oc bracing.

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

REACTIONS. (lb/size) 16=1332/0-3-8 (min. 0-1-15), 12=1332/0-3-8 (min. 0-1-15)
 Max Horz 16=-325(LC 10)
 Max Grav 16=1634(LC 20), 12=1634(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-17=-1946/0, 3-17=-1818/0, 3-4=-1775/0, 4-18=-1254/97, 5-18=-1108/146, 5-6=0/408,
 6-7=0/408, 7-19=-1108/146, 8-19=-1254/97, 8-9=-1774/0, 9-20=-1817/0, 10-20=-1945/0,
 2-16=-1813/11, 10-12=-1814/11
 BOT CHORD 15-16=-302/588, 14-15=0/1300, 13-14=0/1300, 12-13=-51/351
 WEBS 5-7=-1673/154, 4-15=0/927, 8-13=0/927, 2-15=0/1069, 10-13=0/1076

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 11-11-8, Exterior(2) 11-11-8 to 16-4-5, Interior(1) 16-4-5 to 24-9-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s). 4-15, 8-13
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job GARRETT	Truss C3	Truss Type ATTIC	Qty 5	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sun Jan 26 09:29:52 2025 Page 1
ID: L_8V_on2B54z0E?fEOh_oCzwSUE-dyXjhWz7GWBATR9nCjqJggc2k6WmA6ZwTT0tzRzrXuT

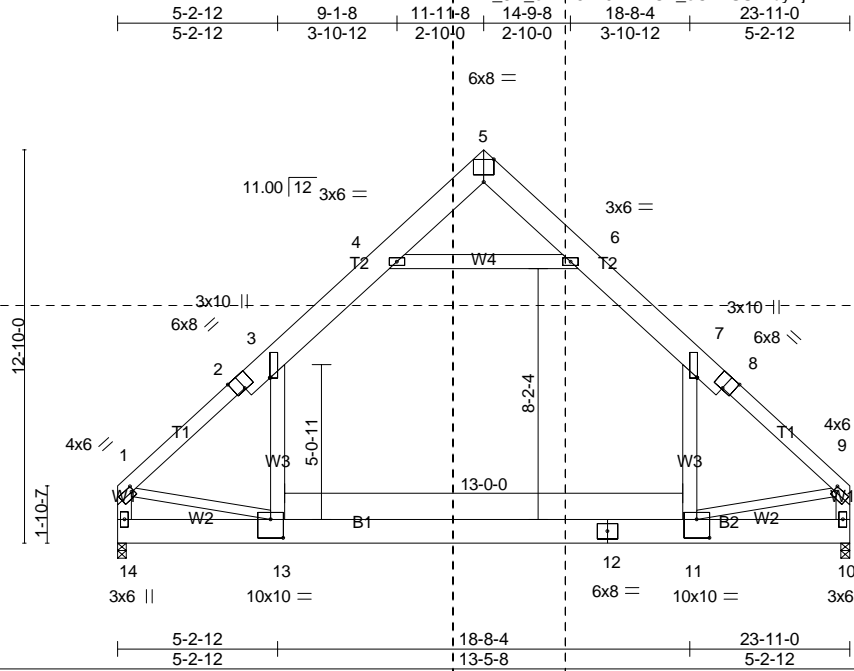


Plate Offsets (X,Y)--	[1:0-1-0-0-2-0], [2:0-4-0,Edge], [3:0-0-4,Edge], [5:0-4-0,Edge], [7:0-0-4,Edge], [8:0-4-0,Edge], [9:0-1-0-0-2-0], [11:0-5-0-0-7-4], [13:0-5-0-0-7-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.71	Vert(LL)	-0.24	11-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.40	11-13	>709		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.48	Horz(CT)	0.01	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.06	11-13	>999		
								Weight: 263 lb	FT = 25%

LUMBER-
TOP CHORD 2x10 SP No.1 *Except*
T1: 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
W2: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-0-0 oc bracing.

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

REACTIONS. (lb/size) 14=1265/0-3-8 (min. 0-1-14), 10=1265/0-3-8 (min. 0-1-14)
Max Horz 14=-253(LC 8)
Max Grav 14=1576(LC 21), 10=1576(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1935/0, 2-15=-1768/0, 3-15=-1767/0, 3-16=-1259/98, 4-16=-1114/148, 4-5=0/426, 5-6=0/426, 6-17=-1114/148, 7-17=-1259/98, 7-18=-1766/0, 8-18=-1768/0, 8-9=-1935/0, 1-14=-1770/0, 9-10=-1771/0
BOT CHORD 13-14=-271/440, 12-13=0/1290, 11-12=0/1290, 10-11=-57/255
WEBS 4-6=-1711/165, 3-13=0/896, 7-11=0/896, 1-13=0/1158, 9-11=0/1163

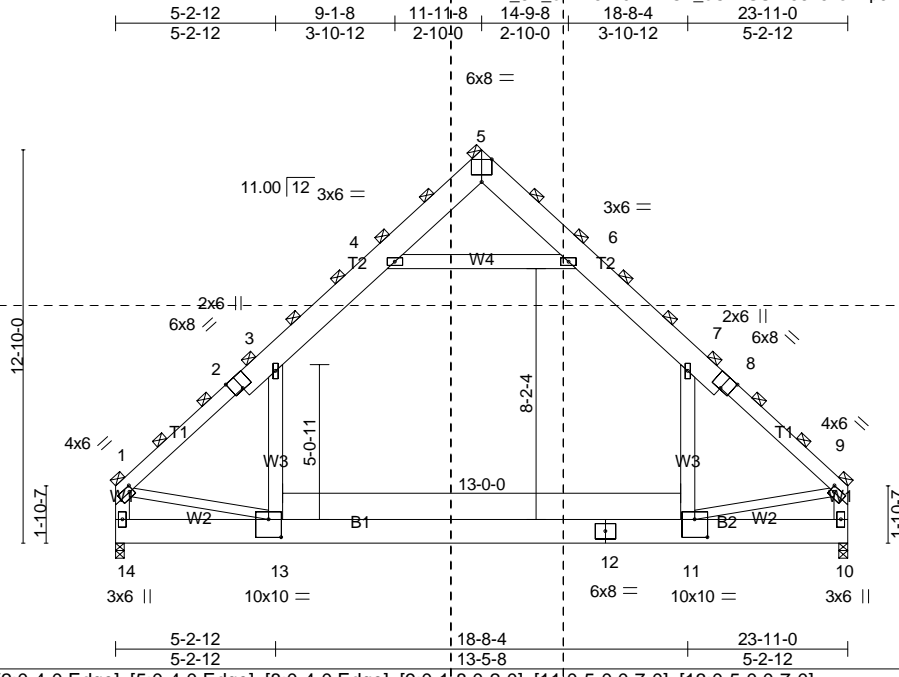
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 11-11-8, Exterior(2) 11-11-8 to 16-4-5, Interior(1) 16-4-5 to 23-8-4 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.
 - Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-13, 7-11
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job GARRETT	Truss C4	Truss Type ATTIC	Qty 1	Ply 2	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sun Jan 26 09:29:53 2025 Page 1
 ID: j_8V_on2B54z0E?fEOh_oCzwSUE-5846vszl1pJ15bkzmRLYMu8AU8uEvd73i7mRVtzrXuS



Scale = 1:75.2

Plate Offsets (X,Y)-- [1:0-1-8,0-2-0], [2:0-4-0,Edge], [5:0-4-0,Edge], [8:0-4-0,Edge], [9:0-1-8,0-2-0], [11:0-5-0,0-7-0], [13:0-5-0,0-7-0]

LOADING (psf)	SPACING-	3-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.61	Vert(LL)	-0.18 11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT)	-0.30 11-13	>946	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.20	Horz(CT)	0.01 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.04 11-13	>999	240		
								Weight: 526 lb	FT = 25%

LUMBER-
 TOP CHORD 2x10 SP No.1 *Except*
 T1: 2x6 SP No.1
 BOT CHORD 2x10 SP No.1
 WEBS 2x6 SP No.1 *Except*
 W2: 2x4 SP No.2

BRACING-
 TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
 (Switched from sheeted: Spacing > 2-0-0).
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 14=1898/0-3-8 (min. 0-1-8), 10=1898/0-3-8 (min. 0-1-8)
 Max Horz 14=-379(LC 10)
 Max Grav 14=2364(LC 21), 10=2364(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2903/0, 2-15=-2652/0, 3-15=-2650/0, 3-16=-1889/147, 4-16=-1671/221, 4-5=0/640,
 5-6=0/640, 6-17=-1671/221, 7-17=-1889/147, 7-18=-2650/0, 8-18=-2651/0, 8-9=-2902/0,
 1-14=-2655/0, 9-10=-2656/0
 BOT CHORD 13-14=-407/661, 12-13=0/1935, 11-12=0/1935, 10-11=-86/383
 WEBS 4-6=-2566/247, 3-13=0/1344, 7-11=0/1344, 1-13=0/1737, 9-11=0/1744

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=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 11-11-8, Exterior(2) 11-11-8 to 16-4-5, Interior(1) 16-4-5 to 23-8-4 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.
 - Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-13, 7-11
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job GARRETT	Truss VG1	Truss Type GABLE	Qty 1	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sun Jan 26 09:29:53 2025 Page 1
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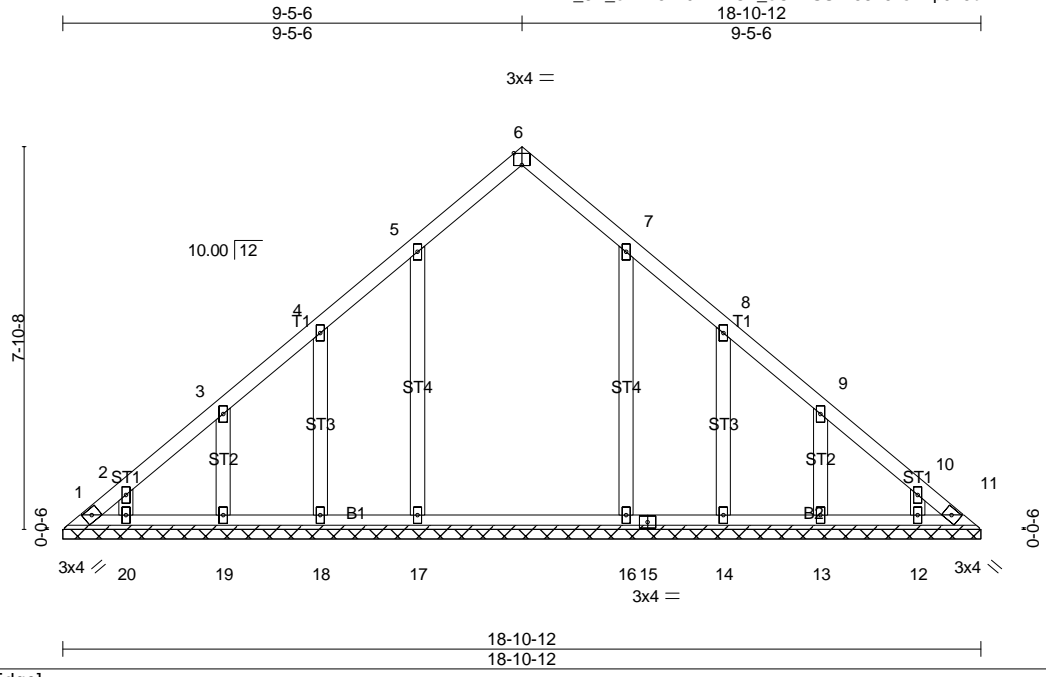


Plate Offsets (X,Y)-- [6:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.05	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.16	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.09	Horz(CT)	0.01	11	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 99 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 18-10-12.
 (lb) - Max Horz 1=-226(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 17, 20, 16, 12 except 18=-123(LC 12), 19=-110(LC 12), 14=-126(LC 13), 13=-110(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 11, 18, 19, 20, 14, 13, 12 except 17=373(LC 19), 16=366(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-358/220, 2-3=-280/158, 9-10=-275/158, 10-11=-353/220
 BOT CHORD 1-20=-168/278, 19-20=-168/278, 18-19=-168/278, 17-18=-168/278, 16-17=-168/278, 15-16=-168/278, 14-15=-168/278, 13-14=-168/278, 12-13=-168/278, 11-12=-168/278

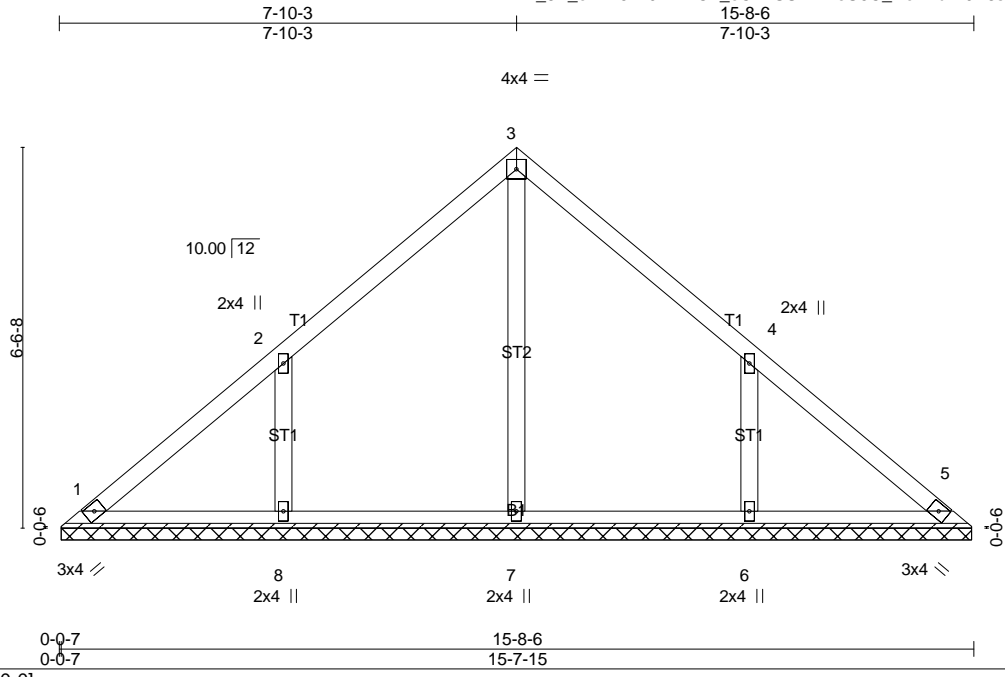
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 9-5-6, Exterior(2) 9-5-6 to 13-7-2, Interior(1) 13-7-2 to 18-5-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 17, 20, 16, 12 except (jt=lb) 18=123, 19=110, 14=126, 13=110.
 - 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 GARRETT	Truss VG2	Truss Type VALLEY	Qty 1	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sun Jan 26 09:29:54 2025 Page 1
ID:I_8V_on2B54z0E?fEOh_oCzwSUE-ZLeU6C_No7Ruikl9K8snv5hSOXMq6wCwnV_1KzrXuR



Scale = 1:39.5

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.17	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 69 lb	FT = 25%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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

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

REACTIONS. All bearings 15-7-8.
(lb) - Max Horz 1=-149(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-142(LC 12), 6=-142(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=411(LC 19), 8=428(LC 19), 6=428(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-355/254, 4-6=-355/254

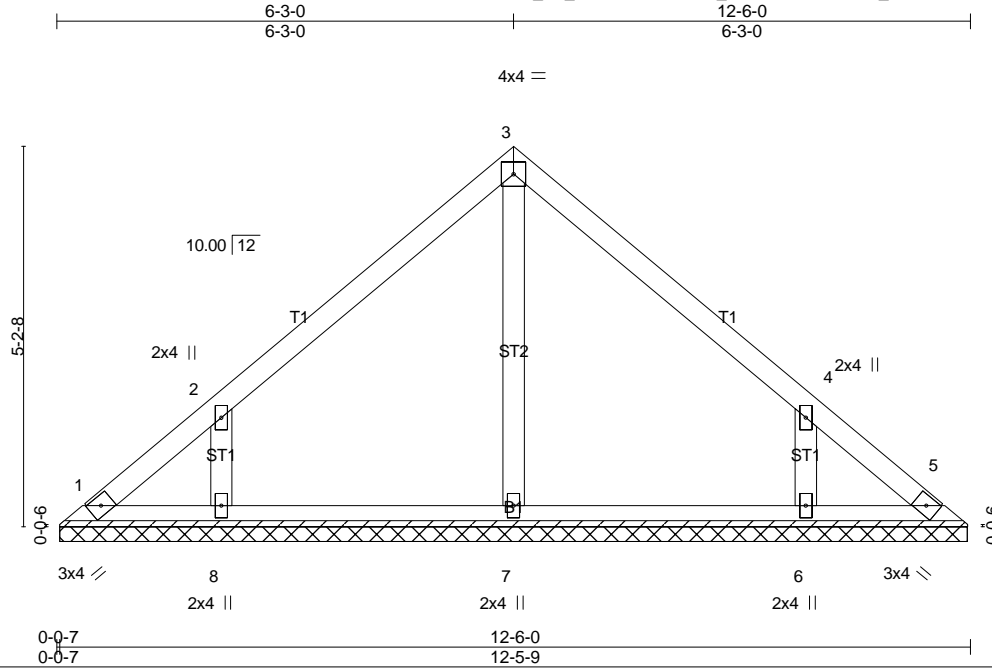
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 7-10-3, Exterior(2) 7-10-3 to 12-3-0, Interior(1) 12-3-0 to 15-3-9 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) 8=142, 6=142.
 - 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 GARRETT	Truss VG3	Truss Type VALLEY	Qty 1	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sun Jan 26 09:29:54 2025 Page 1
ID: I_8V_on2B54z0E?fEOh_oCzwSUE-ZLeU6C_No7Ruikl9K8snv5hSkXNde6UCwnV_1KzrXuR



Scale = 1:31.5

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 52 lb	FT = 25%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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

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

REACTIONS. All bearings 12-5-1.
(lb) - Max Horz 1=-117(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-123(LC 12), 6=-123(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=326(LC 19), 6=326(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-312/241, 4-6=-312/241

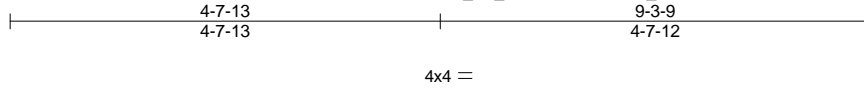
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 6-3-0, Exterior(2) 6-3-0 to 10-7-13, Interior(1) 10-7-13 to 12-1-3 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, 5 except (jt=lb) 8=123, 6=123.
 - 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

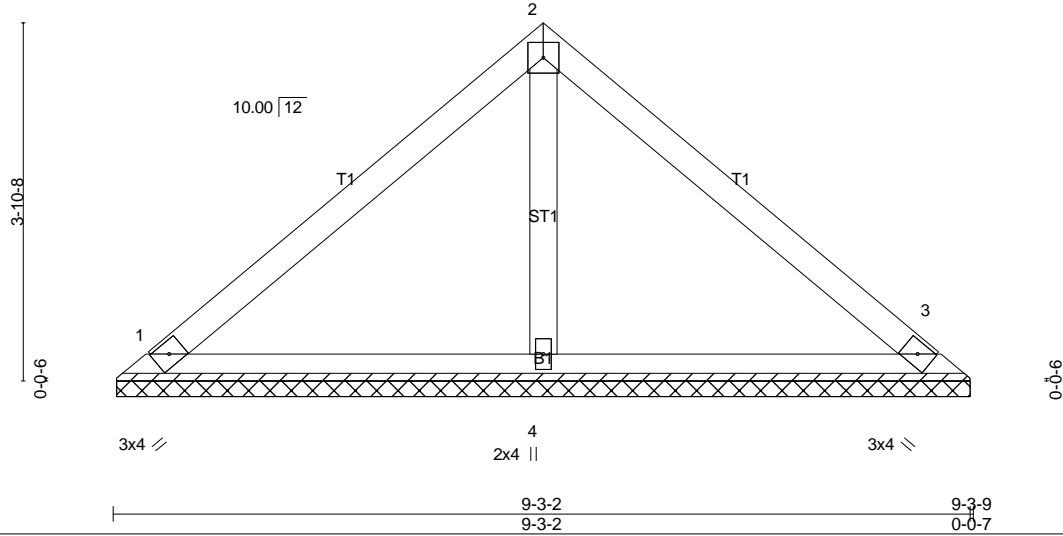
Job GARRETT	Truss VG4	Truss Type VALLEY	Qty 1	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

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ID: I_8V_on2B54z0E?fEOh_oCzwSUE-2XCsjY??ZRZIKutMtsN0RJEdbxiBNa3M9RFYamzrXuQ



Scale = 1:24.9



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)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 35 lb	FT = 25%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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

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

REACTIONS. (lb/size) 1=181/9-2-11 (min. 0-1-8), 3=181/9-2-11 (min. 0-1-8), 4=316/9-2-11 (min. 0-1-8)
Max Horz 1=-85(LC 8)
Max Uplift 1=-20(LC 13), 3=-28(LC 13)

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

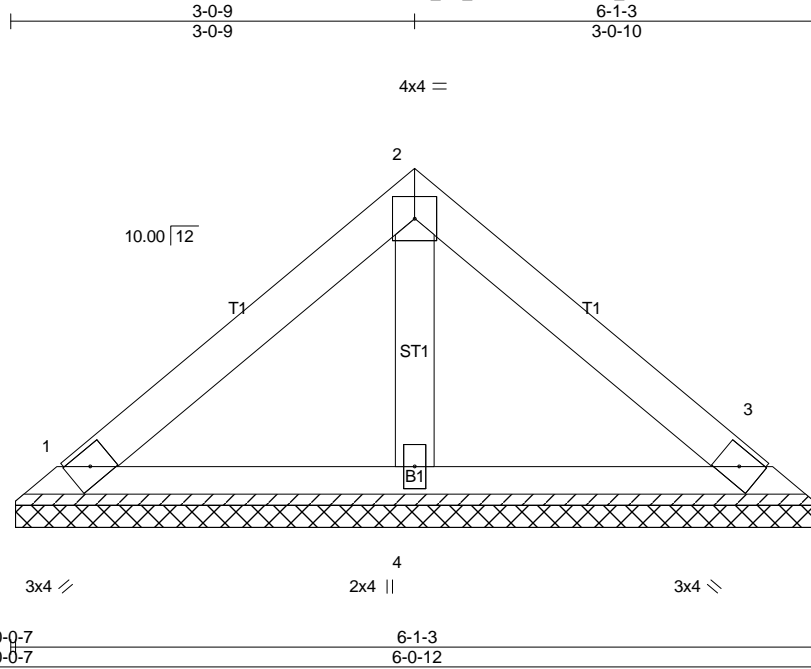
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate 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

Job GARRETT	Truss VG5	Truss Type VALLEY	Qty 1	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sun Jan 26 09:29:55 2025 Page 1
ID:L_8V_on2B54z0E?fEOh_oCzwSUE-2XCsjY??ZRZIKutMtsN0RJEEzXkSNaVM9RFYamzrXuQ



Scale = 1:17.4

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.10	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 22 lb	FT = 25%
	Code IRC2015/TPI2014							

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. (lb/size) 1=122/6-0-4 (min. 0-1-8), 3=122/6-0-4 (min. 0-1-8), 4=179/6-0-4 (min. 0-1-8)
 Max Horz 1=53(LC 11)
 Max Uplift1=-18(LC 13), 3=-23(LC 13)

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

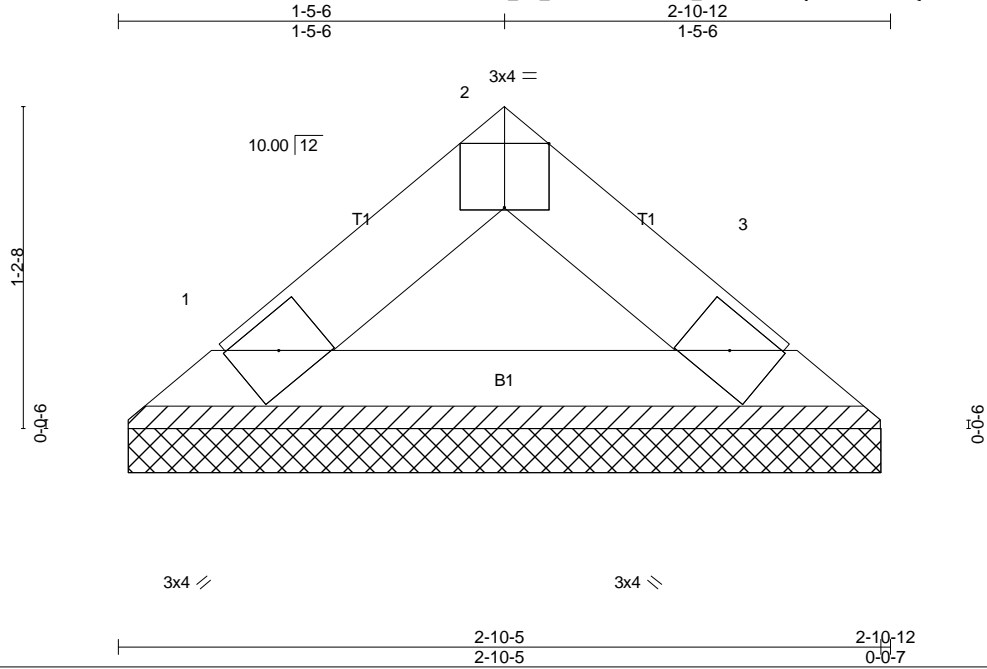
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - 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 GARRETT	Truss VG8	Truss Type VALLEY	Qty 1	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

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ID: I_8V_on2B54z0E?fEOh_oCzwSUE-WjmEXu0eKkhcy2SYRZuF_Wmq1L3x61_VO5_56CzrXuP



Scale = 1:8.6

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P							
								Weight: 8 lb	FT = 25%	

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-12 oc purlins.
BOT CHORD 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=84/2-9-14 (min. 0-1-8), 3=84/2-9-14 (min. 0-1-8)
Max Horz 1=-21(LC 8)
Max Uplift 1=-4(LC 12), 3=-4(LC 13)

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

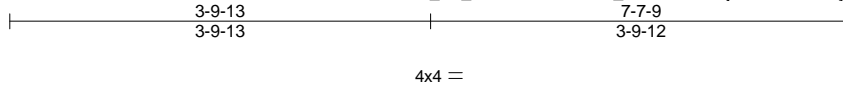
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate 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

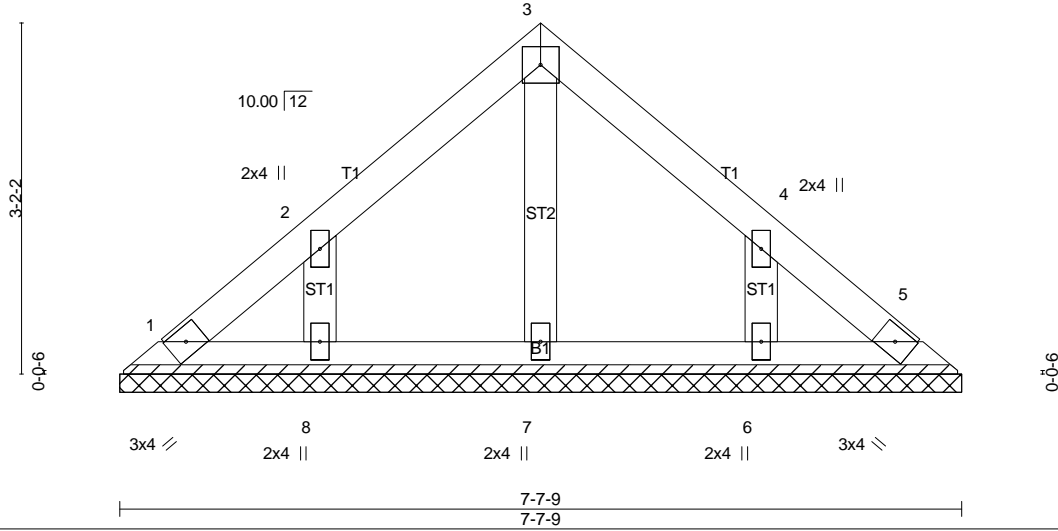
Job GARRETT	Truss VH1	Truss Type GABLE	Qty 1	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sun Jan 26 09:29:56 2025 Page 1
ID:L_8V_on2B54z0E?fEOh_oCzwSUE-WjmEXu0eKkhcy2SYRZuF_WmqeL3A61ZVO5_56CzrXuP



Scale = 1:20.9



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)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 31 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 7-7-9.
(lb) - Max Horz 1=85(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-123(LC 12), 6=-122(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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

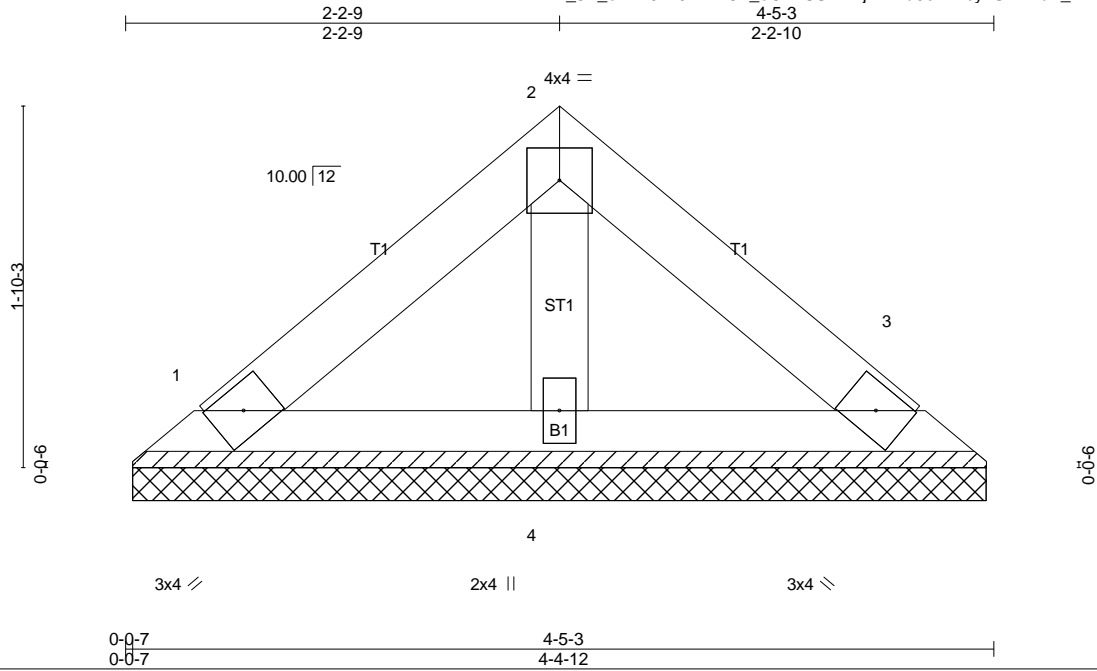
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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=123, 6=122.
 - 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 GARRETT	Truss VH2	Truss Type VALLEY	Qty 1	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sun Jan 26 09:29:56 2025 Page 1
ID: I_8V_on2B54z0E?fEOh_oCzwSUE-WjmEXu0eKkhcy2SYRZuF_WmqaL3761rVO5_56CzrXuP



Scale = 1:11.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.04	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2015/TPI2014						Weight: 15 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 4-5-3 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=84/4-4-4 (min. 0-1-8), 3=84/4-4-4 (min. 0-1-8), 4=122/4-4-4 (min. 0-1-8)
Max Horz 1=-36(LC 8)
Max Uplift 1=-13(LC 13), 3=-16(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=130mph Vasd=103mph; TCCL=6.0psf; BCCL=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
 - 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.
 - 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