

Job T MOORE-KNITTING JAM-EN-R A	Truss A	Truss Type Roof Special	Qty 7	Ply 1	Tim Moore-Knitting Jam
Carter Components - Sanford, Sanford, NC					Job Reference (optional)

ID: XzkDH6W86IXYgJNzAGRXLywsQW-jYIB0mGHbtY9JDsMAsKqqOW3qPfnUiHFFbgi5dywrIF
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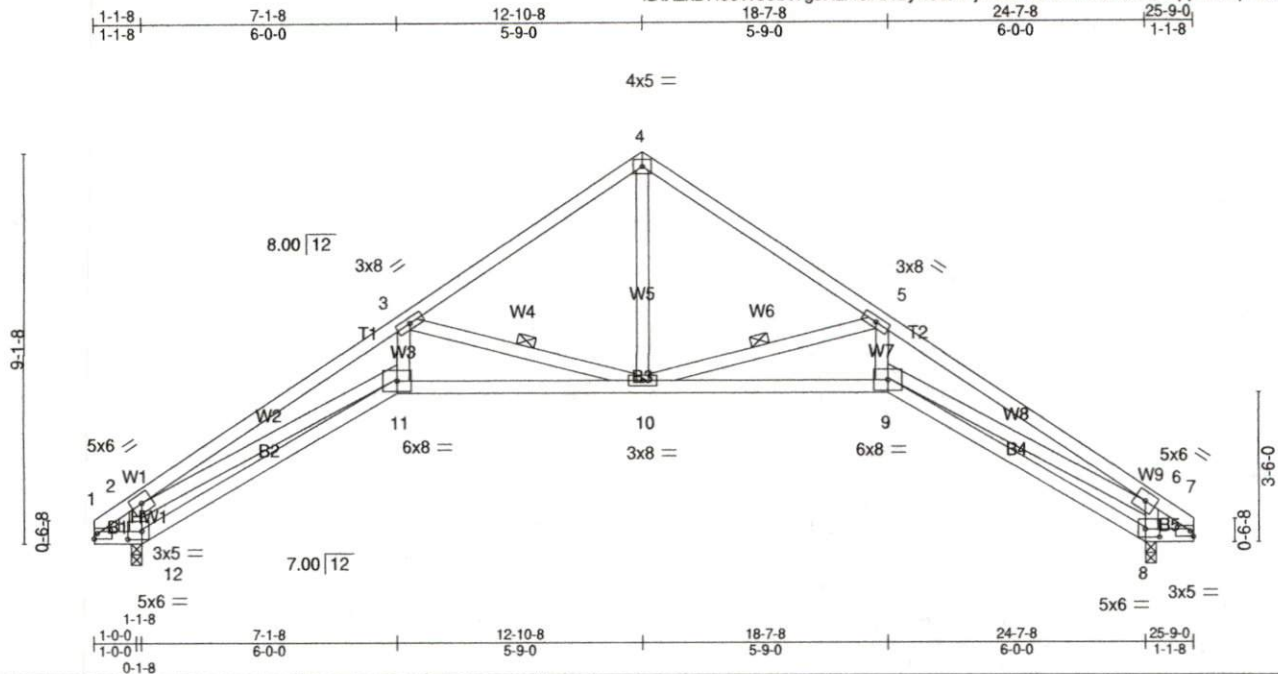


Plate Offsets (X,Y)-- [8:0-4-0,0-2-4], [12:0-4-0,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.76	Vert(LL)	-0.29 9-10	>977	240	MT20	244/190
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.81	Vert(CT)	-0.59 9-10	>475	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.74	Horz(CT)	0.70 8	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MSH						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 140 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 W6,W8,W4,W2: 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
 TOP CHORD Sheathed or 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-10, 3-10

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

REACTIONS. (lb/size) 12=872/0-3-0 (min. 0-1-8), 8=872/0-3-0 (min. 0-1-8)
 Max Horz 12=170(LC 9)
 Max Grav 12=1030(LC 2), 8=1030(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-328/59, 2-3=-3550/381, 3-4=-1378/208, 4-5=-1378/208, 5-6=-3550/381, 6-7=-319/59
 BOT CHORD 1-12=-119/403, 11-12=-222/286, 10-11=-199/2792, 9-10=-199/2730, 7-8=-119/396
 WEBS 4-10=-92/1087, 5-10=-1724/304, 5-9=-20/1327, 6-9=-196/3022, 6-8=-1031/320,
 3-10=-1804/304, 3-11=-20/1377, 2-11=-196/3022, 2-12=-1031/320

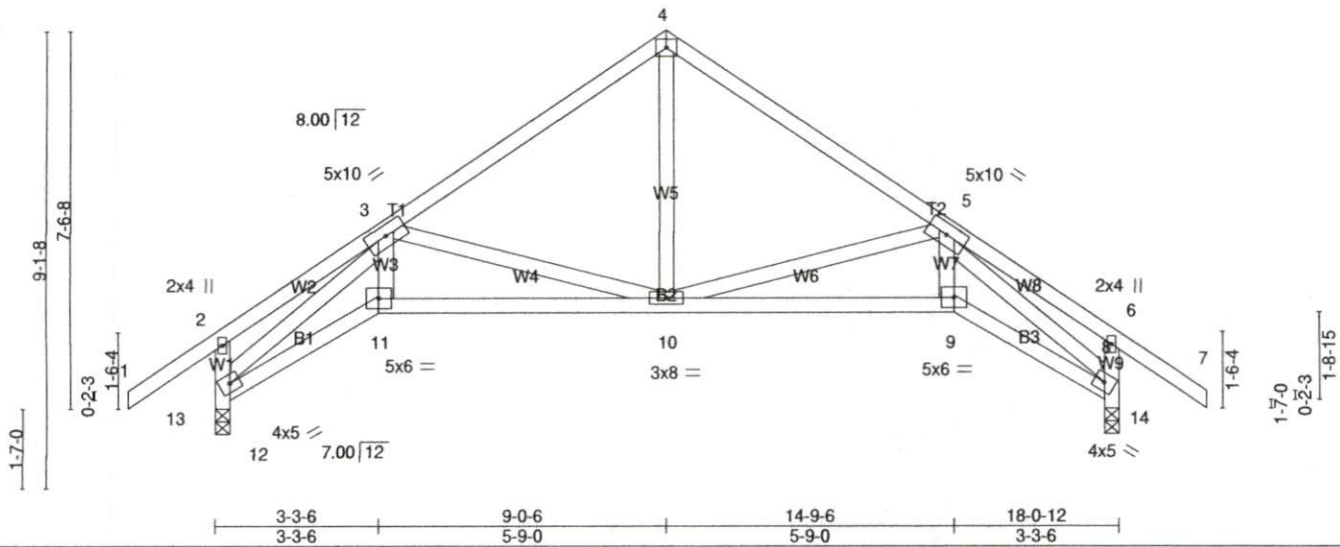
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
 - * This truss has been designed for a live load of 20.0psf 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.
 - 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



4x5 =

Scale = 1:46.2



LOADING (psf)	SPACING-	CSL	DEFL	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.46	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.45	Vert(LL) -0.06 9-10 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.65	Vert(CT) -0.15 9-10 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.18 14 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 111 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 W6,W4: 2x4 SP No.2

BRACING-
 TOP CHORD Sheathed or 5-5-7 oc purlins, except end verticals.
 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) 13=692/0-3-8 (min. 0-1-8), 14=692/0-3-8 (min. 0-1-8)
 Max Horz 13=-184(LC 11)
 Max Uplift 13=-9(LC 13), 14=-9(LC 14)
 Max Grav 13=825(LC 2), 14=825(LC 2)

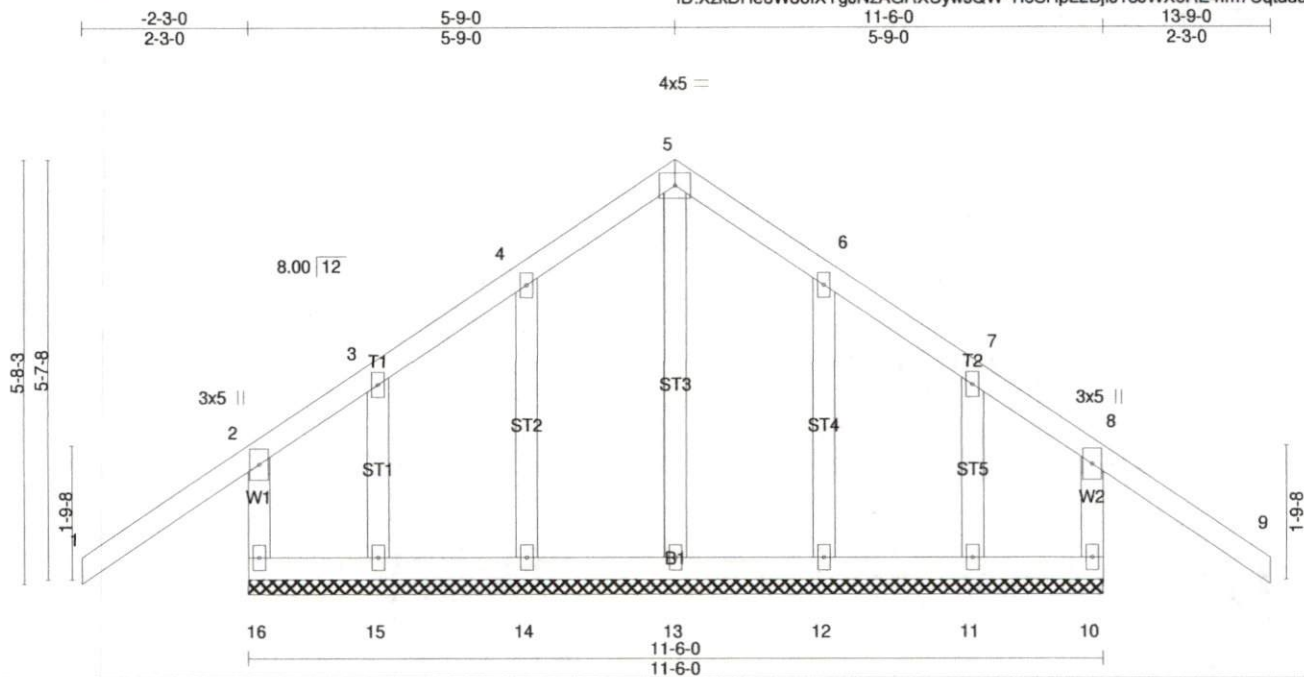
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=-827/150, 4-5=-827/150, 12-13=-825/198, 2-12=-266/125, 8-14=-825/198
 BOT CHORD 11-12=-123/1612, 10-11=-99/1314, 9-10=-67/1197, 8-9=-84/1467
 WEBS 4-10=-14/516, 5-10=-678/155, 5-9=0/784, 3-10=-705/188, 3-11=-6/859, 3-12=-1748/148, 5-8=-1748/162

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 13, 14 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) 13, 14.
 - 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 T MOORE-KNITTING JAM-EN-R CE	Truss GABLE	Truss Type GABLE	Qty 1	Ply 1	Tim Moore-Knitting Jam
Cartier Components - Sanford, Sanford, NC					Job Reference (optional)

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.56	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.08	Vert(LL) -0.05 9 n/r 120		
TCDL 10.0	Lumber DOL 1.15	WB 0.09	Vert(CT) -0.09 9 n/r 120		
BCLL 0.0	Rep Stress Incr YES	Matrix-R	Horz(CT) -0.00 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 76 lb	FT = 20%

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

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

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

REACTIONS. All bearings 11-6-0.
 (lb) - Max Horz 16=-151(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11
 Max Grav All reactions 250 lb or less at joint(s) 13, 14, 15, 12, 11 except 16=272(LC 29), 10=272(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-16=-259/259, 8-10=-259/258

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 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.
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) 16, 10, 14, 15, 12, 11.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard