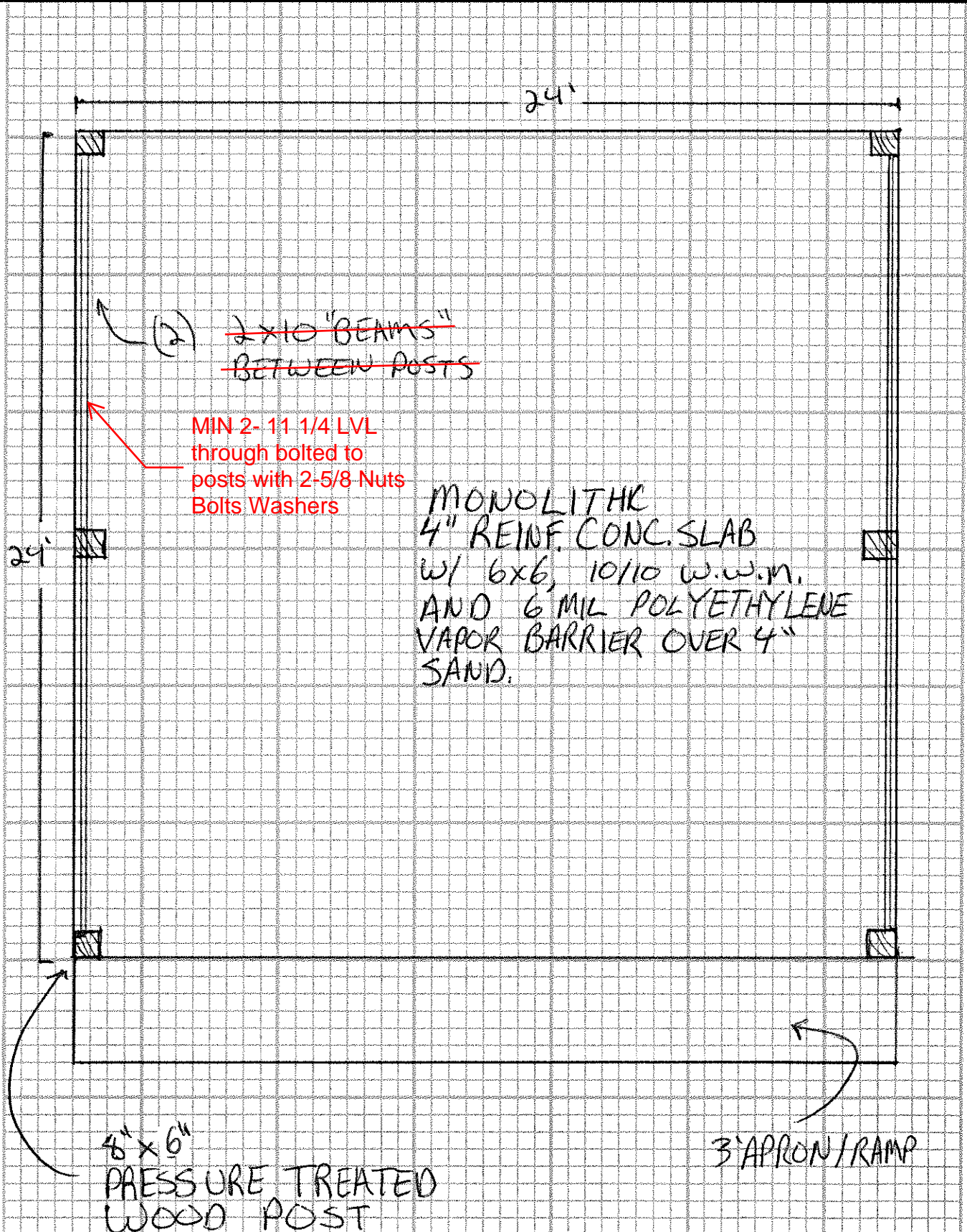


Subject Pole Barn Slab  
CONC. FOUNDATION w/ WOOD PLAN VIEW

Work \_\_\_\_\_

Project No. \_\_\_\_\_ File No. 1" = 4'

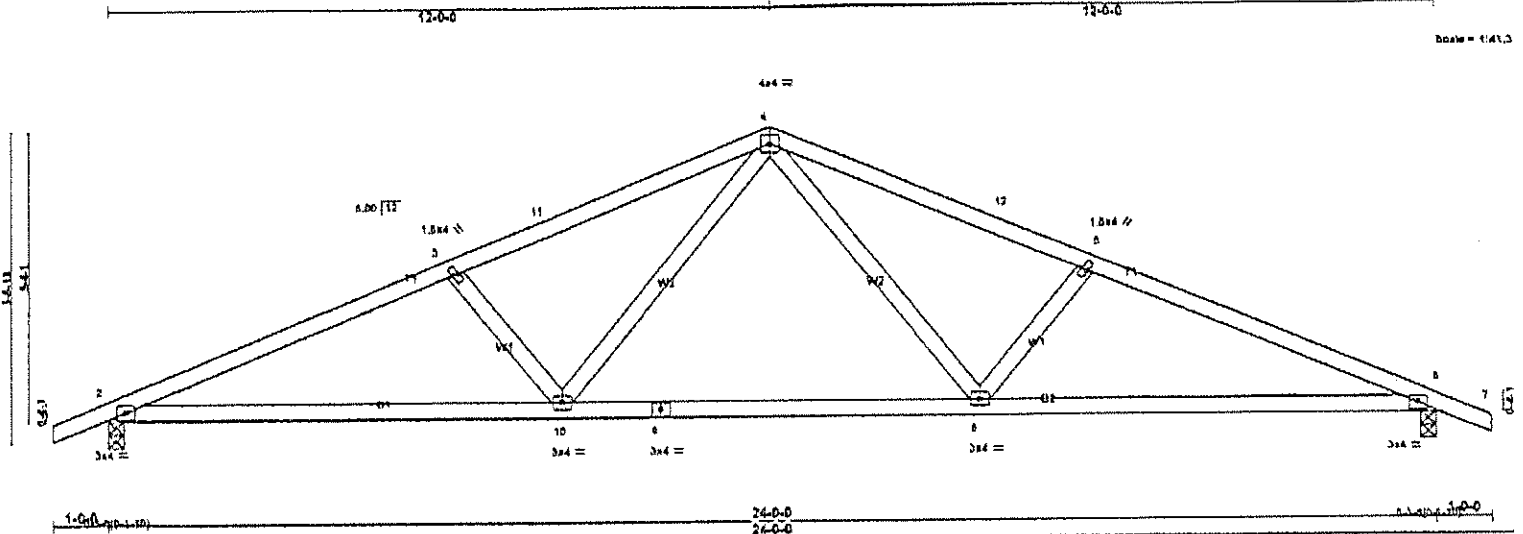
Date Oct 29 2019  
Set Up By TSC  
Computed By \_\_\_\_\_  
Checked By \_\_\_\_\_  
Page No. \_\_\_\_\_ of \_\_\_\_\_



Job	Truss	Truss Type	Qty	Ply	CUMMINGS
T10:10026	T01	FINC	11	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C

Run: 8/31/2018 8:31:08 AM Jun 11 2018 MiTek Industries, Inc Mon Oct 7 11:38:31 2016 Page 1  
 ID: Uj07gEhpjH4qReVWMV7TeGyVqZV-BN1o1Pag1513aYR?hEED3jdJBdO8kpyvPDoDyVqY\_



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)	-0.11	6-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.26	6-8	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.24	Horz(CT)	0.05	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 105 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Sheathed or 4-1-4 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.** (size) 2=0-3-8 (min. 0-1-10), 6=0-3-8 (min. 0-1-10)  
 Max Horz 2=-82(LC 10)  
 Max Uplift 2=-28(LC 12), 6=-28(LC 12)  
 Max Grav 2=1017(LC 2), 6=1017(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1894/33, 3-4=-1661/37, 4-5=-1661/37, 5-6=-1894/33  
 BOT CHORD 2-10=0/1682, 8-10=0/1119, 6-8=0/1682  
 WEBS 3-10=-374/96, 4-10=0/587, 4-8=0/587, 5-8=-374/96

**JOINT STRESS INDEX**  
 2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 8 = -nan(ind), 9 = -nan(ind) and 10 = -nan(ind)

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; and vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ci=1.10
  - 4) Unbalanced snow loads have been considered for this design.
  - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 8) All bearings are assumed to be User Defined crushing capacity of 425 psi.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 2 and 28 lb uplift at joint 6.
  - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	T7089	Truss Type	Qty	Ply	CUMMINGS
T10:10026	T01G	GABLE	2	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 83.310 6 1 Jun 11 2010 Print: 8.310 6 Jun 11 2010 MiTek Industries, Inc. Mon Oct 7 11:36:32 2010 Page 1  
ID:Ujg7gEhpjH4qReWVMVM?TeGyVqZV-cabAFItoPQwGt0BFxiSowAYx1rWTJCw73z0w3yVqXc

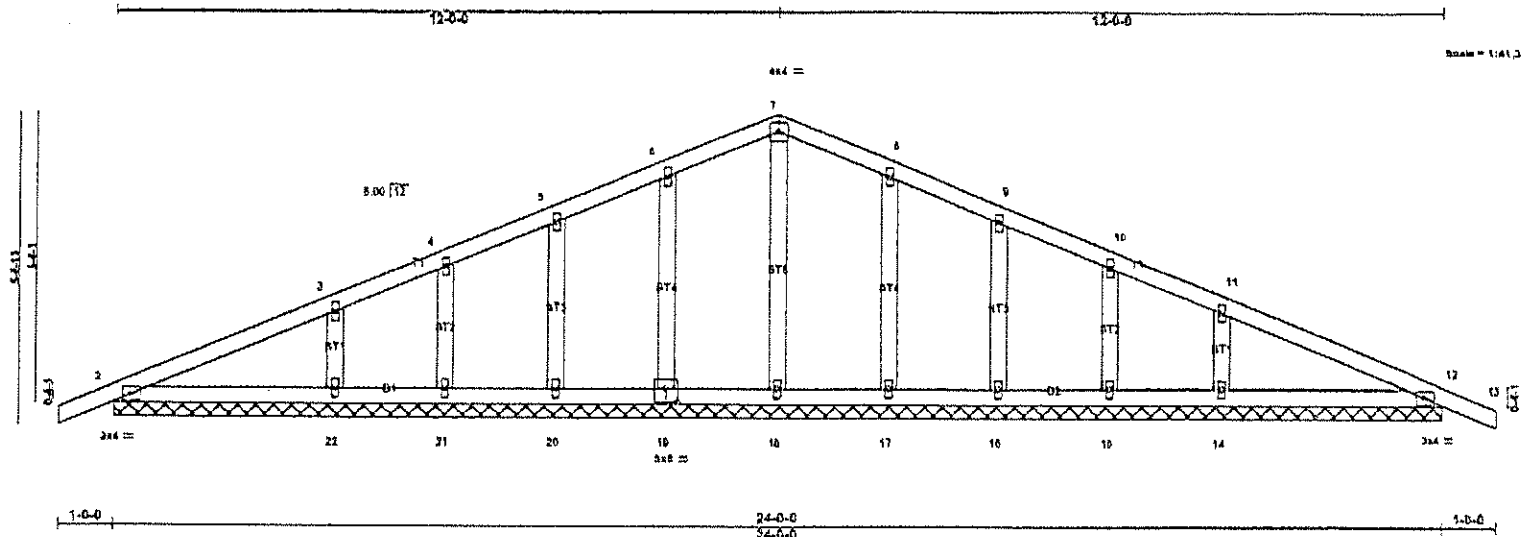


Plate Offsets (X,Y) -- [19:0-2-8,0-3-0]

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 0.12	Vert(LL)	0.00	13	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	0.01	13	n/r		
BCLL 0.0	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	12	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 117 lb	FT = 20%

LUMBER-  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
OTHERS 2x4 SP No.3

BRACING-  
TOP CHORD Sheathed 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 24-0-0.  
(lb) - Max Horz 2=-82(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 19, 20, 21, 22, 17, 16, 15, 14  
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 18, 19, 20, 21, 17, 16, 15 except  
22=310(LC 30), 14=310(LC 31)

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

JOINT STRESS INDEX  
2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind), 9 = -nan(ind), 10 = -nan(ind), 11 = -nan(ind), 12 = -nan(ind), 14 = -nan(ind), 15 = -nan(ind), 16 = -nan(ind), 17 = -nan(ind), 18 = -nan(ind), 19 = -nan(ind), 20 = -nan(ind), 21 = -nan(ind) and 22 = -nan(ind)

- NOTES-
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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.
  - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
  - All plates are 1.5x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be User Defined crushing capacity of 425 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 19, 20, 21, 22, 17, 16, 15, 14.

Job	Truss	Truss Type	Qty	Ply	Comments
T16-10026	T010	GABLE	2	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C

Run: B3 310 s 1 Jun 11 2019 Print: B 310 s Jun 11 2019 MITek Industries, Inc. Mon Oct 7 11:30:33 2019 Page 2  
ID:Ujg7gEhpjH4qReWMVM7T0GyVqZV4m0YS5uwO!YnpabNpfHh8A!gRBIcmS4Mj!SWyVqxy

NOTES-

14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard