



Job P19-03028	Truss AT01	Truss Type Attic	Qty 4	Ply 1	2019-012 JOB# SCOTT Job Reference (optional)	E12870875
------------------	---------------	---------------------	----------	----------	---	-----------

Longleaf Truss Company,

West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:33 2019 Page 1

ID:hY1sjNjl5josHeWlHreg3zV2Nr-z1ZSe4pcp5V4sVSP6XPBIYx47AeeNJ4xfJAedzUo74



Scale = 1:78.3

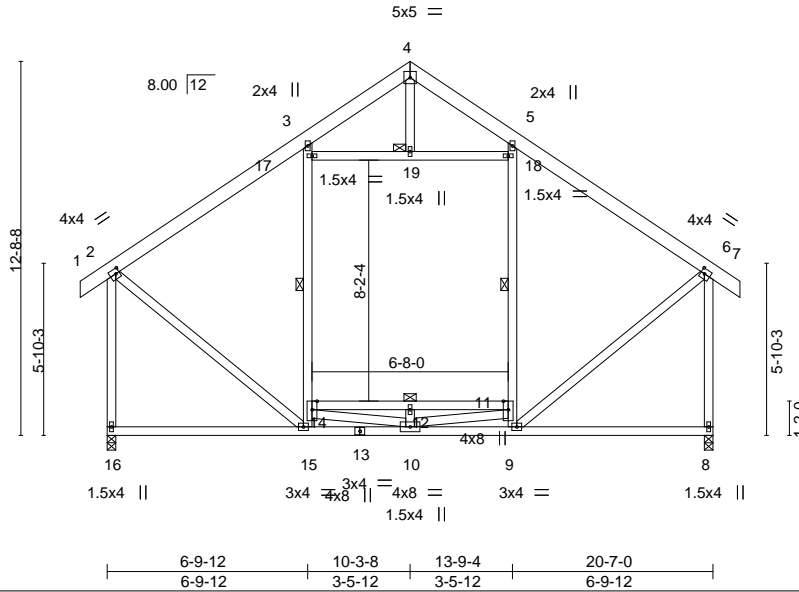


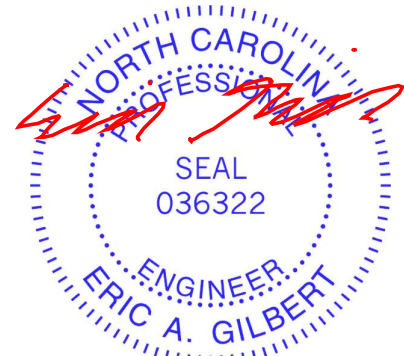
Plate Offsets (X,Y)-- [2:0-1-8,0-2-0], [6:0-1-8,0-2-0]					
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.77	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.64	Vert(LL) -0.14 15-16 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.97	Vert(CT) -0.19 15-16 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014		Attic -0.09 11-14 925 360		
				Weight: 198 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1 *Except* 11-14: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 5-8-0 oc bracing: 11-14
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 11-18, 14-17
	JOINTS 1 Brace at Jt(s): 19

**REACTIONS.** (lb/size) 16=872/0-3-8, 8=872/0-3-8  
 Max Horz 16=296(LC 11)  
 Max Grav 16=1171(LC 26), 8=1171(LC 25)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-829/0, 3-4=-427/31, 4-5=-427/31, 5-6=-829/0, 2-16=-1122/0, 6-8=-1123/0  
 BOT CHORD 15-16=-277/255, 10-15=0/686, 9-10=0/577, 12-14=-658/0, 11-12=-658/0  
 WEBS 9-11=-341/0, 14-15=-341/0, 17-19=-303/43, 18-19=-303/43, 2-15=0/838, 6-9=0/838,  
 10-14=0/755, 10-12=-395/0, 10-11=0/755

- 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=4ft; 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
  - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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 11.6 psf on overhangs non-concurrent with other live loads.
  - 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.
  - Ceiling dead load (5.0 psf) on member(s). 17-19, 18-19; Wall dead load (5.0psf) on member(s).11-18, 14-17
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-14, 11-12
  - All bearings are assumed to be User Defined crushing capacity of 425 psi.
  - 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.
  - Attic room checked for L/360 deflection.



April 3, 2019

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road  
Edenton, NC 27932

Job P19-03028	Truss F01	Truss Type Floor	Qty 1	Ply 1	2019-012 JOB# SCOTT Job Reference (optional)	E12870876
------------------	--------------	---------------------	----------	----------	---	-----------

Longleaf Truss Company, West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:34 2019 Page 1  
ID:hY1sjNlj5josHeWIHreg3zV2Nr-RD7qrQqFZPdwTf1cgEwQqmTMdZ1n6xK4tB2kB3zUo73

0-1-8



Scale = 1:19.5

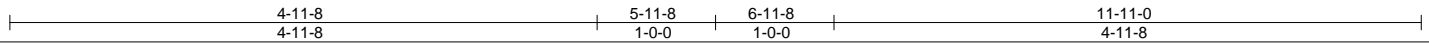
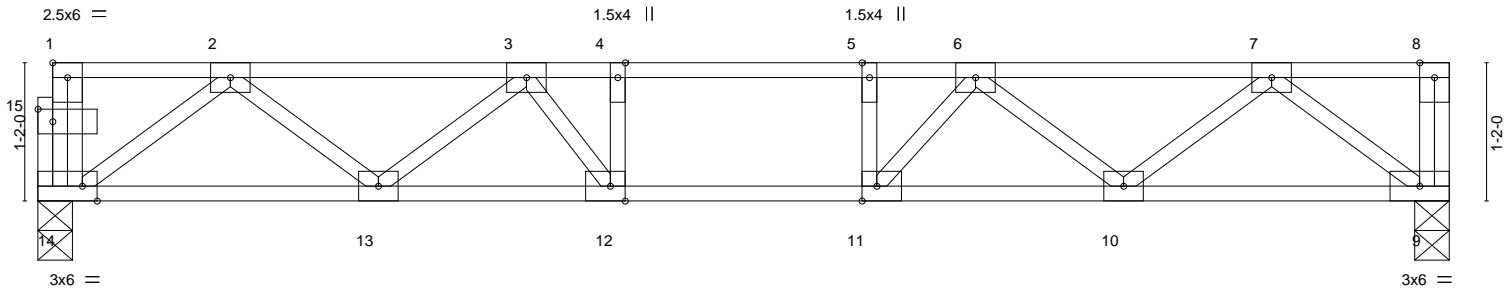


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [11:0-1-8,Edge], [12:0-1-8,Edge], [14:0-1-8,Edge], [15:0-1-8,0-1-4]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.39	Vert(LL) -0.07 10-11 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.27	Vert(CT) -0.09 10-11 >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 9 n/a n/a		
	Code IRC2018/TPI2014			Weight: 62 lb	FT = 8%F, 4%E

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

**BRACING-**  
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 9=638/0-3-8, 14=632/0-3-8

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1230/0, 3-4=-1738/0, 4-5=-1738/0, 5-6=-1738/0, 6-7=-1210/0  
BOT CHORD 13-14=0/805, 12-13=0/1624, 11-12=0/1738, 10-11=0/1610, 9-10=0/777  
WEBS 4-12=-270/0, 2-14=-991/0, 2-13=0/554, 3-13=-513/0, 3-12=-23/420, 7-9=-975/0, 7-10=0/564, 6-10=-520/0, 6-11=-8/413

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
  - As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
  - All plates are 3x4 MT20 unless otherwise indicated.
  - Plates checked for a plus or minus 0 degree rotation about its center.
  - 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.
  - 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.
  - CAUTION, Do not erect truss backwards.



April 3, 2019

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road  
Edenton, NC 27932

Job P19-03028	Truss F02	Truss Type Floor Supported Gable	Qty 1	Ply 1	2019-012 JOB# SCOTT Job Reference (optional)	E12870877
------------------	--------------	-------------------------------------	----------	----------	---	-----------

Longleaf Truss Company,

West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:36 2019 Page 1  
ID:hY1sjNlj5josHeWIHreg3zV2Nr-NcEbG6sV50tejbB\_nfzuvBznUNo9avXNLVXqFyzUo71

0-1/8

0-1/8

Scale = 1:51.5

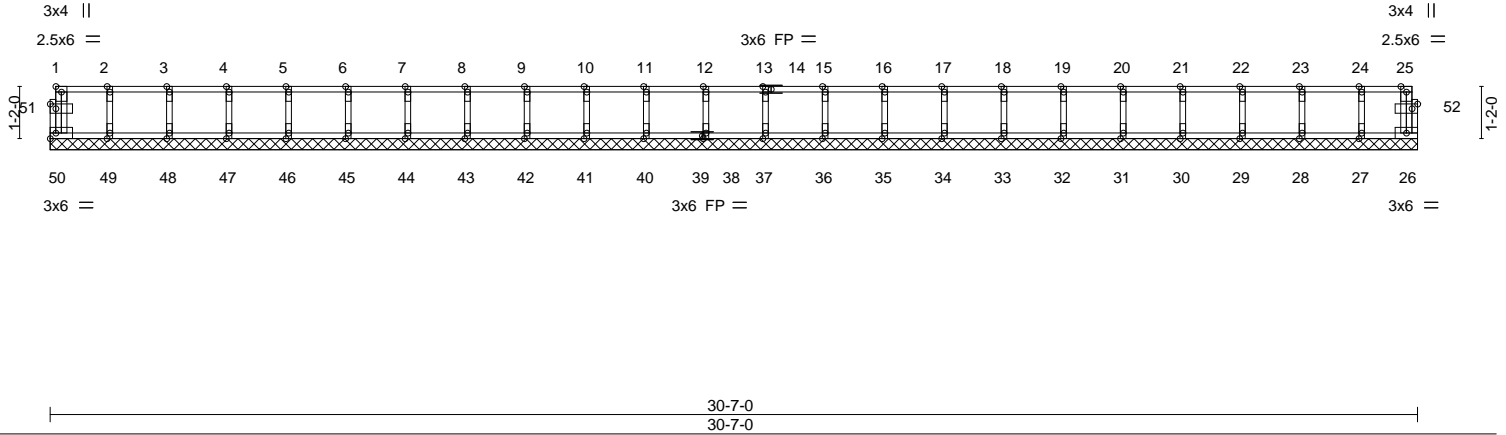


Plate Offsets (X,Y)--	[1:Edge,0-1-8], [51:0-1-8,0-1-4], [52:0-1-8,0-1-4]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.06	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 26 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-R		Weight: 128 lb	FT = 8%F, 4%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1 (flat)	TOP CHORD Sheathed 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 30-7-0.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 50, 26, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27

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

- NOTES-**
- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
  - 2) All plates are 1.5x4 MT20 unless otherwise indicated.
  - 3) Plates checked for a plus or minus 0 degree rotation about its center.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 6) Gable studs spaced at 1-4-0 oc.
  - 7) 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.
  - 8) 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.



April 3, 2019

Job P19-03028	Truss F03	Truss Type Floor Supported Gable	Qty 1	Ply 1	2019-012 JOB# SCOTT Job Reference (optional)	E12870878
------------------	--------------	-------------------------------------	----------	----------	---	-----------

Longleaf Truss Company, West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:37 2019 Page 1  
ID:hY1sjNlj5josHeWlHreg3zV2Nr-roozTRt7sK0VK7mBLNU7SO5yAn8lJmMx9HOnOzUo70

0-1/8

0-1/8

Scale = 1:31.6

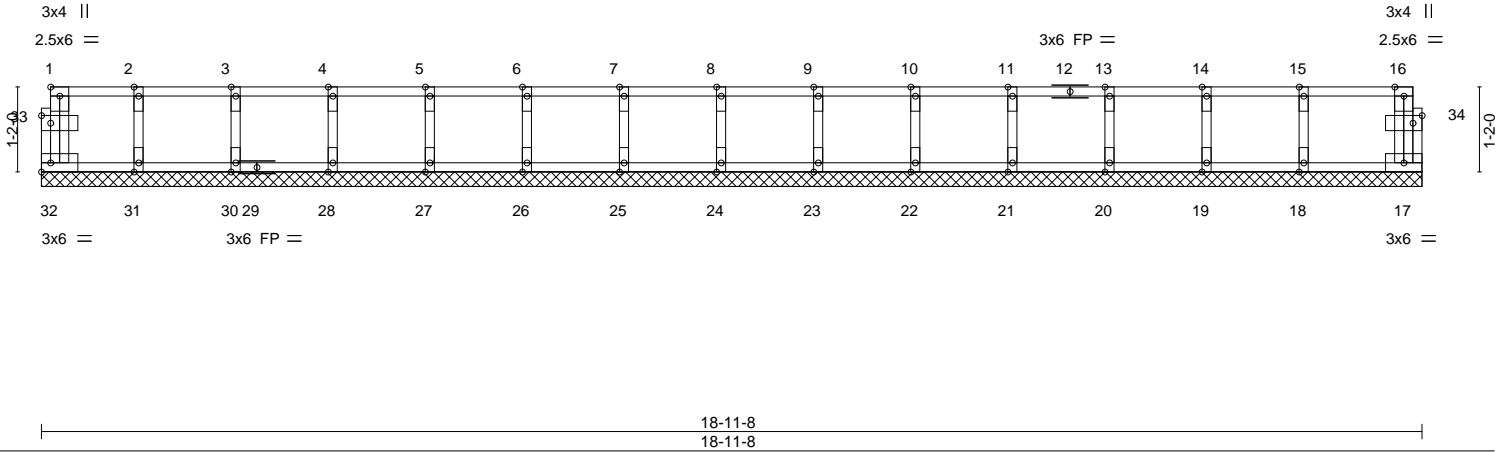


Plate Offsets (X,Y)--	[1:Edge,0-1-8], [33:0-1-8,0-1-4], [34:0-1-8,0-1-4]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.06	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 17 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-R		Weight: 81 lb	FT = 8%F, 4%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1 (flat)	TOP CHORD Sheathed 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 18-11-8.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18

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

- NOTES-**
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
  - All plates are 1.5x4 MT20 unless otherwise indicated.
  - Plates checked for a plus or minus 0 degree rotation about its center.
  - 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 1-4-0 oc.
  - 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.
  - 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.



April 3, 2019

Job P19-03028	Truss F04	Truss Type Floor	Qty 5	Ply 1	2019-012 JOB# SCOTT Job Reference (optional)	E12870879
------------------	--------------	---------------------	----------	----------	---	-----------

Longleaf Truss Company,

West End, NC - 27376,

8,240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:38 2019 Page 1  
ID:hY1sjNijl5josHeWlHreg3zV2Nr-J\_MLhntide8MyGLNv4?M?cevwBL\_2fxgop0xKrzUo??

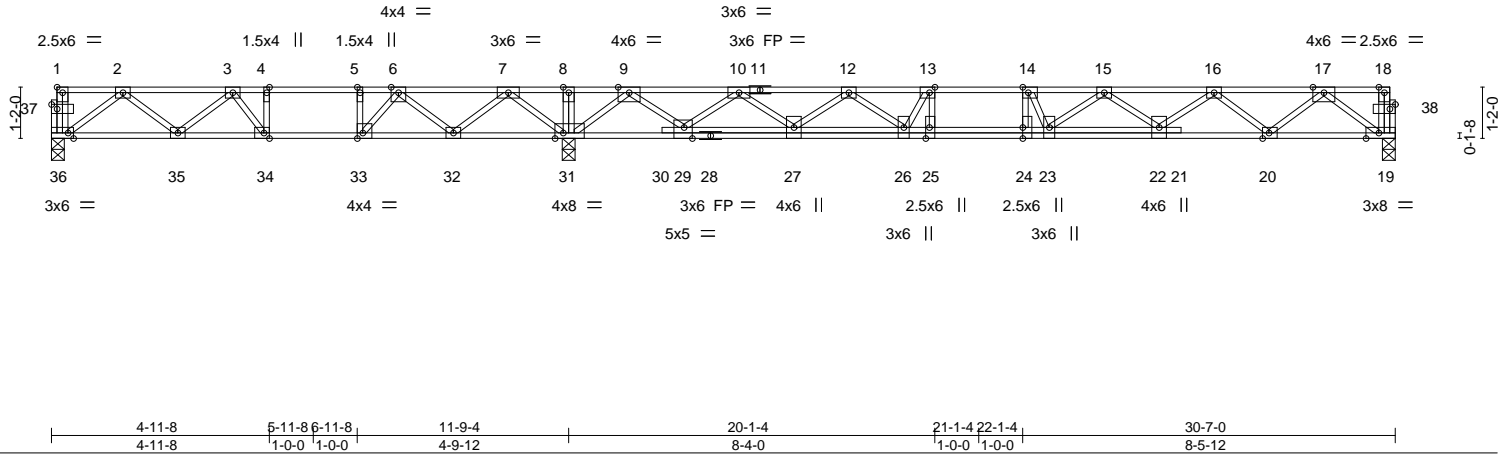


Plate Offsets (X,Y)--	[1:Edge,0-1-8], [13:0-1-8,Edge], [14:0-1-8,Edge], [19:0-3-8,Edge], [20:0-1-12,Edge], [24:0-3-0,0-0-0], [25:0-3-0,Edge], [29:0-2-4,Edge], [31:0-2-4,Edge], [33:0-1-8,Edge], [34:0-1-8,Edge], [36:0-1-8,Edge], [37:0-1-8,0-1-4], [38:0-1-8,0-1-4]
-----------------------	---

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.96	Vert(LL) -0.24	24	>919	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.62	Vert(CT) -0.33	24	>681	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.68	Horz(CT) 0.04	19	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S						
							Weight: 171 lb	FT = 8%F, 4%E

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

**REACTIONS.** (lb/size) 19=880/0-3-8, 31=2022/0-3-8, 36=408/0-3-8  
 Max Uplift 36=-15(LC 4)  
 Max Grav 19=902(LC 4), 31=2022(LC 1), 36=535(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-991/118, 3-4=-1202/562, 4-5=-1202/562, 5-6=-1202/562, 6-7=-370/1295, 7-8=0/2479, 8-9=0/2479, 9-10=-447/305, 10-12=-2220/0, 12-13=-3369/0, 13-14=-3687/0, 14-15=-3796/0, 15-16=-3133/0, 16-17=-1919/0  
 BOT CHORD 35-36=-41/673, 34-35=-292/1246, 33-34=-562/1202, 32-33=-925/909, 31-32=-1621/0, 29-31=-1060/0, 27-29=-4/1505, 26-27=0/2919, 25-26=0/3665, 24-25=0/3687, 23-24=0/3711, 22-23=0/3603, 20-22=0/2670, 19-20=0/1165  
 WEBS 4-34=0/287, 5-33=-523/0, 13-25=-72/603, 14-24=-692/75, 2-36=-829/52, 2-35=-100/414, 3-35=-331/226, 3-34=-547/0, 7-31=-1292/0, 7-32=0/863, 6-32=-939/0, 6-33=0/931, 9-31=-1781/0, 9-29=0/1423, 10-29=-1372/0, 10-27=0/935, 12-27=-929/0, 12-26=0/695, 13-26=-909/0, 17-19=-1436/0, 17-20=0/981, 16-20=-977/0, 16-22=0/589, 15-22=-596/0, 15-23=0/370, 14-23=-244/594

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
  - As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
  - All plates are 3x4 MT20 unless otherwise indicated.
  - Plates checked for a plus or minus 0 degree rotation about its center.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 36.
  - 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.
  - 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.
  - CAUTION, Do not erect truss backwards.



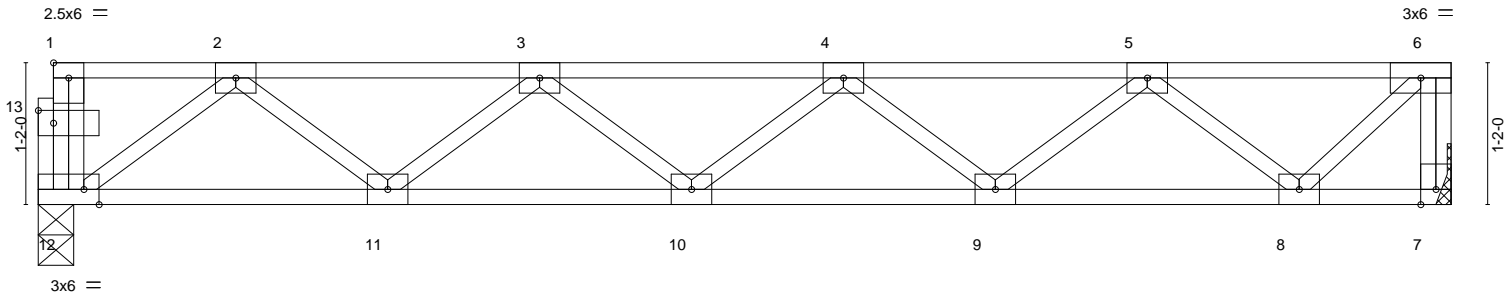
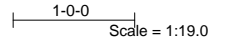
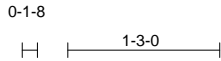
April 3, 2019

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY <b>TRENCO</b> A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
---	---

Job P19-03028	Truss F05	Truss Type Floor	Qty 1	Ply 1	2019-012 JOB# SCOTT Job Reference (optional)	E12870880
------------------	--------------	---------------------	----------	----------	---	-----------

Longleaf Truss Company, West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:39 2019 Page 1  
ID:hY1sjNljl5josHeWIHreg3zV2Nr-nBwj7uNOxGDaQwZTnWbXpBFmalqnB1p1TmVsHzUo7\_



	2-10-8 2-10-8	5-4-8 2-6-0	7-10-8 2-6-0	10-4-8 2-6-0	11-7-8 1-3-0
Plate Offsets (X,Y)--	[1:Edge,0-1-8], [12:0-1-8,Edge], [13:0-1-8,0-1-4]				
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>		<b>PLATES</b>
TCLL 40.0	2-0-0	TC 0.25	in (loc) l/defl L/d		<b>GRIP</b>
TCDL 10.0	Plate Grip DOL 1.00	BC 0.33	Vert(LL) -0.05 10 >999 480		MT20 244/190
BCLL 0.0	Lumber DOL 1.00	WB 0.37	Vert(CT) -0.07 9-10 >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 7 n/a n/a		
	Code IRC2018/TPI2014				Weight: 61 lb FT = 8%F, 4%E

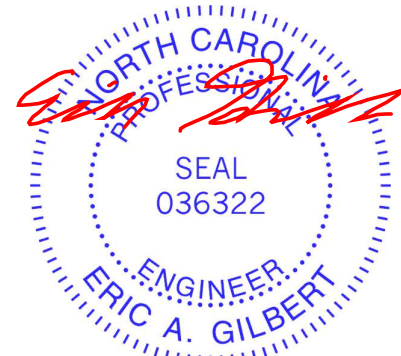
**LUMBER-**  
TOP CHORD 2x4 SP No.1 (flat)  
BOT CHORD 2x4 SP No.1 (flat)  
WEBS 2x4 SP No.3 (flat)

**BRACING-**  
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 7=622/Mechanical, 12=616/0-3-8

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 6-7=-618/0, 2-3=-1194/0, 3-4=-1648/0, 4-5=-1446/0, 5-6=-566/0  
BOT CHORD 11-12=0/778, 10-11=0/1576, 9-10=0/1692, 8-9=0/1170  
WEBS 2-12=-958/0, 2-11=0/542, 3-11=-497/0, 4-9=-320/0, 5-9=0/359, 5-8=-787/0, 6-8=0/771

- NOTES-**
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
  - All plates are 3x4 MT20 unless otherwise indicated.
  - Plates checked for a plus or minus 0 degree rotation about its center.
  - Refer to girder(s) for truss to truss connections.
  - 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.
  - 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.
  - CAUTION, Do not erect truss backwards.



April 3, 2019

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road  
Edenton, NC 27932

Job P19-03028	Truss F06	Truss Type Floor	Qty 6	Ply 1	2019-012 JOB# SCOTT	E12870881
					Job Reference (optional)	

Longleaf Truss Company,

West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:39 2019 Page 1

ID:hY1sjNlj5josHeWlHreg3zV2Nr-nBwju7uNOxGDaQwZTrnWbXpBApagsn8Dp1TmVsHzUo7\_

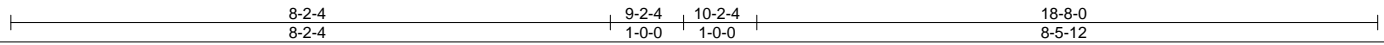
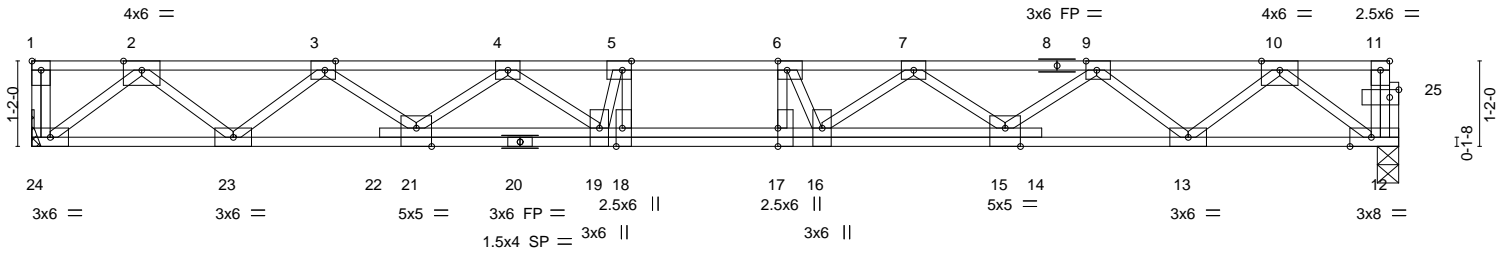
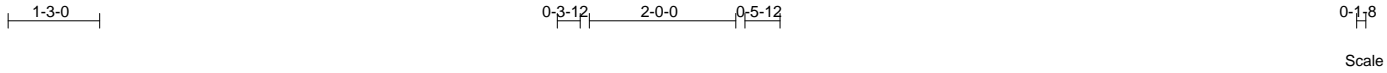


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [3:0-1-12,Edge], [5:0-1-8,Edge], [6:0-1-8,Edge], [9:0-1-12,Edge], [12:0-3-8,Edge], [15:0-2-8,Edge], [17:0-3-0,0-0-0], [18:0-3-0,Edge], [21:0-2-8,Edge], [25:0-1-8,0-1-4]

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.57	Vert(LL) -0.30 17-18 >744 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.65	Vert(CT) -0.41 17-18 >541 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.55	Horz(CT) 0.06 12 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S		Weight: 107 lb	FT = 8%F, 4%E

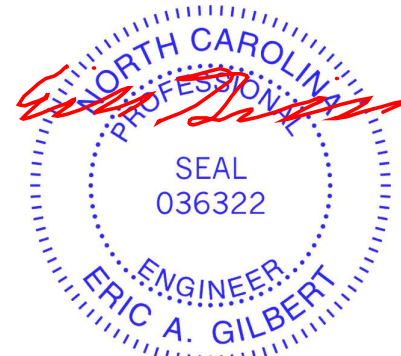
**LUMBER-**  
 TOP CHORD 2x4 SP No.1(flat)  
 BOT CHORD 2x4 SP No.1(flat)  
 WEBS 2x4 SP No.3(flat)

**BRACING-**  
 TOP CHORD Sheathed or 5-6-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 24=1009/Mechanical, 12=1003/0-3-8

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2136/0, 3-4=-3623/0, 4-5=-4598/0, 5-6=-4639/0, 6-7=-4597/0, 7-9=-3650/0, 9-10=-2178/0  
 BOT CHORD 23-24=0/1253, 21-23=0/3020, 19-21=0/4236, 18-19=0/4642, 17-18=0/4639, 16-17=0/4645, 15-16=0/4255, 13-15=0/3055, 12-13=0/1304  
 WEBS 5-18=-507/443, 6-17=-454/333, 2-24=-1572/0, 2-23=0/1149, 3-23=-1151/0, 3-21=0/766, 4-21=-778/0, 4-19=0/598, 5-19=-643/361, 10-12=-1607/0, 10-13=0/1139, 9-13=-1141/0, 9-15=0/757, 7-15=-768/0, 7-16=0/560, 6-16=-555/314

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
  - 3) All plates are 3x4 MT20 unless otherwise indicated.
  - 4) The Fabrication Tolerance at joint 20 = 4%
  - 5) Plates checked for a plus or minus 0 degree rotation about its center.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) 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.
  - 8) 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.
  - 9) CAUTION, Do not erect truss backwards.



April 3, 2019

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road  
 Edenton, NC 27932



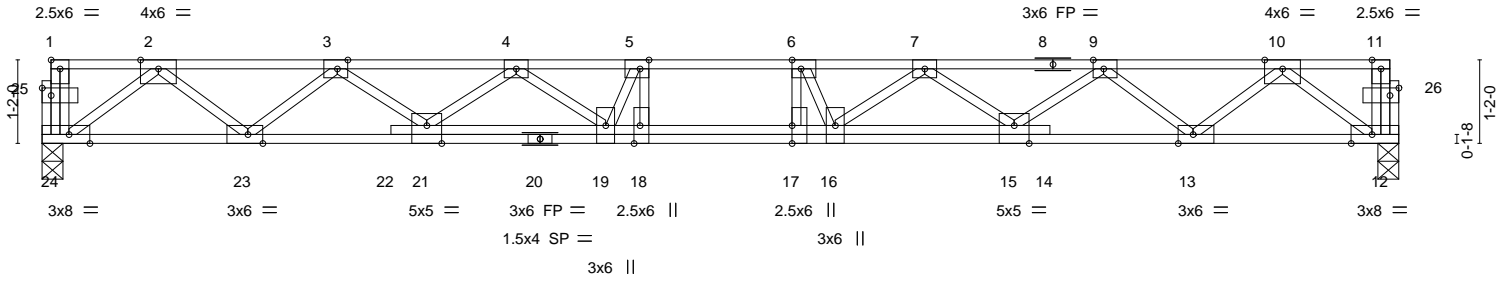
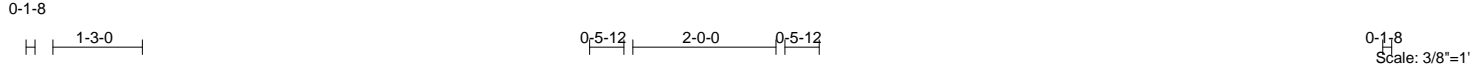
Job P19-03028	Truss F07	Truss Type Floor	Qty 4	Ply 1	2019-012 JOB# SCOTT Job Reference (optional)	E12870882
------------------	--------------	---------------------	----------	----------	---	-----------

Longleaf Truss Company,

West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:40 2019 Page 1

ID:hY1SjNijI5josHeWlHreg3zV2Nr-FNU66Tv?9FO4BaVm0V1q41jKG\_0wWbPzG7V2NjzUo6z



	8-5-12	9-5-12	10-5-12	18-11-8
	8-5-12	1-0-0	1-0-0	8-5-12
Plate Offsets (X,Y)--	[1:Edge,0-1-8], [3:0-1-12,Edge], [5:0-1-8,Edge], [6:0-1-8,Edge], [9:0-1-12,Edge], [12:0-3-8,Edge], [13:0-2-8,Edge], [15:0-2-8,Edge], [17:0-3-0,0-0-0], [18:0-3-0,Edge], [21:0-2-8,Edge], [23:0-2-8,Edge], [24:0-3-8,Edge], [25:0-1-8,0-1-4], [26:0-1-8,0-1-4]			

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.58	Vert(LL) -0.31	17-18	>719	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.66	Vert(CT) -0.43	17-18	>523	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.55	Horz(CT) 0.06	12	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S					Weight: 109 lb	FT = 8%F, 4%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Sheathed or 5-4-10 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) 12=1016/0-3-8, 24=1016/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2211/0, 3-4=-3715/0, 4-5=-4696/0, 5-6=-4757/0, 6-7=-4696/0, 7-9=-3715/0, 9-10=-2211/0  
 BOT CHORD 23-24=0/1321, 21-23=0/3103, 19-21=0/4336, 18-19=0/4761, 17-18=0/4757, 16-17=0/4761, 15-16=0/4336, 13-15=0/3103, 12-13=0/1321  
 WEBS 5-18=-439/364, 6-17=-439/364, 2-24=-1628/0, 2-23=0/1158, 3-23=-1161/0, 3-21=0/778, 4-21=-789/0, 4-19=0/579, 5-19=-589/294, 10-12=-1628/0, 10-13=0/1158, 9-13=-1161/0, 9-15=0/778, 7-15=-789/0, 7-16=0/579, 6-16=-589/294

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
  - 3) All plates are 3x4 MT20 unless otherwise indicated.
  - 4) The Fabrication Tolerance at joint 20 = 4%
  - 5) Plates checked for a plus or minus 0 degree rotation about its center.
  - 6) 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.
  - 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.



April 3, 2019

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road  
Edenton, NC 27932

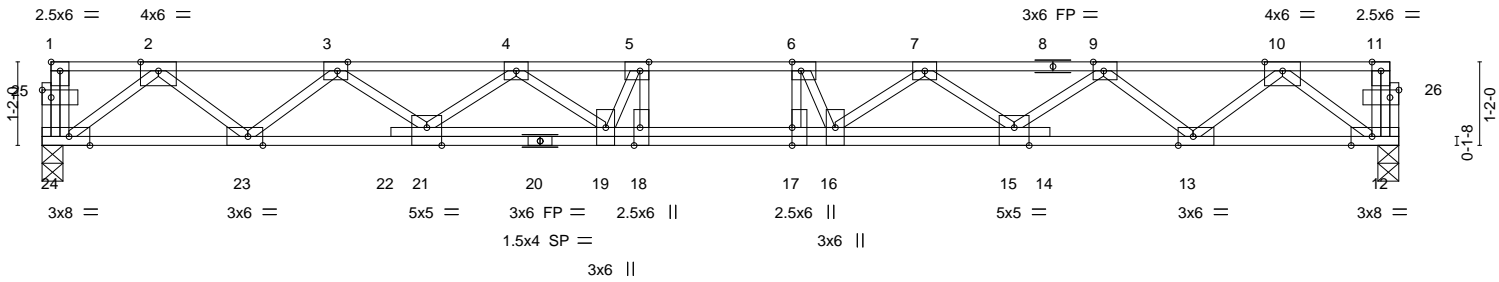
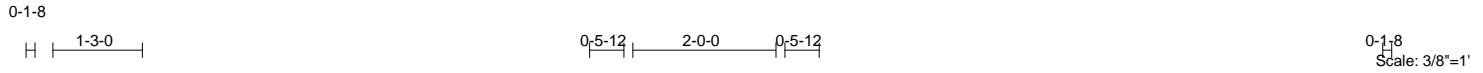
Job P19-03028	Truss F08	Truss Type Floor	Qty 10	Ply 1	2019-012 JOB# SCOTT Job Reference (optional)	E12870883
------------------	--------------	---------------------	-----------	----------	---	-----------

Longleaf Truss Company,

West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:41 2019 Page 1

ID:hY1sjNlIj5josHeWlHreg3zV2Nr-kZ2UJpwewZWxp4yaCY3cEGV0OM9F2e6UnFbv9zUo6y



	8-5-12	9-5-12	10-5-12	18-11-8
	8-5-12	1-0-0	1-0-0	8-5-12
Plate Offsets (X,Y)--	[1:Edge,0-1-8], [3:0-1-12,Edge], [5:0-1-8,Edge], [6:0-1-8,Edge], [9:0-1-12,Edge], [12:0-3-8,Edge], [13:0-2-8,Edge], [15:0-2-8,Edge], [17:0-3-0,0-0-0], [18:0-3-0,Edge], [21:0-2-8,Edge], [23:0-2-8,Edge], [24:0-3-8,Edge], [25:0-1-8,0-1-4], [26:0-1-8,0-1-4]			

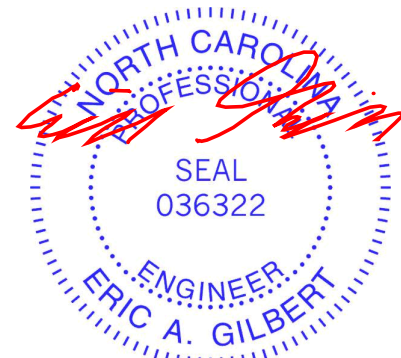
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.58	Vert(LL)	-0.31 17-18	>719	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.66	Vert(CT)	-0.43 17-18	>523	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.55	Horz(CT)	0.06 12	n/a	n/a		
BCDL 5.0	Code	IRC2018/TPI2014	Matrix-S					Weight: 109 lb	FT = 8%F, 4%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Sheathed or 5-4-10 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) 12=1016/0-3-8, 24=1016/0-3-8

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2211/0, 3-4=-3715/0, 4-5=-4696/0, 5-6=-4757/0, 6-7=-4696/0, 7-9=-3715/0, 9-10=-2211/0  
 BOT CHORD 23-24=0/1321, 21-23=0/3103, 19-21=0/4336, 18-19=0/4761, 17-18=0/4757, 16-17=0/4761, 15-16=0/4336, 13-15=0/3103, 12-13=0/1321  
 WEBS 5-18=-439/364, 6-17=-439/364, 2-24=-1628/0, 2-23=0/1158, 3-23=-1161/0, 3-21=0/778, 4-21=-789/0, 4-19=0/579, 5-19=-589/294, 10-12=-1628/0, 10-13=0/1158, 9-13=-1161/0, 9-15=0/778, 7-15=-789/0, 7-16=0/579, 6-16=-589/294

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
  - 3) All plates are 3x4 MT20 unless otherwise indicated.
  - 4) The Fabrication Tolerance at joint 20 = 4%
  - 5) Plates checked for a plus or minus 0 degree rotation about its center.
  - 6) 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.
  - 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.



April 3, 2019

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY  
**TRENCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932

Job P19-03028	Truss F10	Truss Type Floor	Qty 8	Ply 1	2019-012 JOB# SCOTT Job Reference (optional)	E12870884
------------------	--------------	---------------------	----------	----------	---	-----------

Longleaf Truss Company,

West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:42 2019 Page 1

ID:hY1sjNlj5josHeWlHreg3zV2Nr-CmbsX9wGhseoRue88w4I9SpeQofk\_UsGjR\_9SczUo6x

1-3-0

1-2-0 2-0-0 1-2-0

0-1-8

Scale = 1:34.8

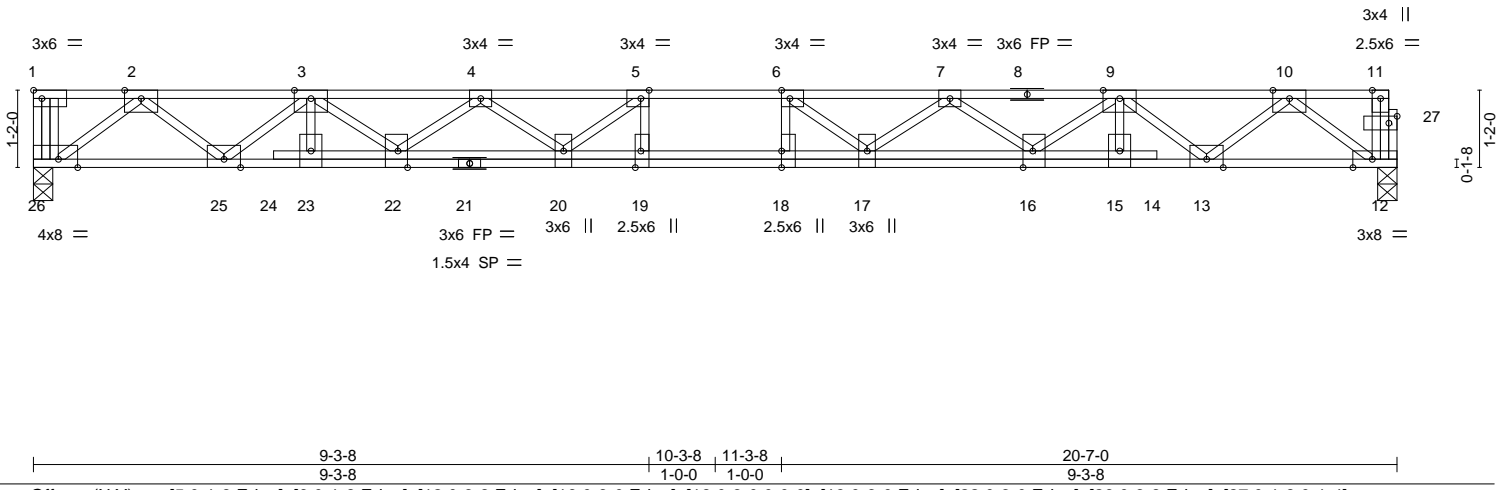


Plate Offsets (X,Y)--	[5:0-1-8,Edge], [6:0-1-8,Edge], [12:0-3-8,Edge], [16:0-3-0,Edge], [18:0-3-0,0-0], [19:0-3-0,Edge], [22:0-3-0,Edge], [26:0-3-8,Edge], [27:0-1-8,0-1-4]
-----------------------	---

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.73	Vert(LL)	-0.42	18-19	>577	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.83	Vert(CT)	-0.58	18-19	>420	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.62	Horz(CT)	0.08	12	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S							
									Weight: 125 lb	FT = 8%F, 4%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1 (flat)	TOP CHORD Sheathed or 4-7-14 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) 12=1109/0-3-8, 26=1115/0-3-8

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2496/0, 3-4=-4430/0, 4-5=-5378/0, 5-6=-5690/0, 6-7=-5362/0, 7-9=-4397/0, 9-10=-2446/0  
 BOT CHORD 25-26=0/1509, 23-25=0/3623, 22-23=0/3623, 20-22=0/5067, 19-20=0/5690, 18-19=0/5690, 17-18=0/5690, 16-17=0/5042, 15-16=0/3582, 13-15=0/3582, 12-13=0/1451  
 WEBS 5-19=-278/320, 6-18=-270/328, 2-26=-1837/0, 2-25=0/1285, 3-25=-1439/0, 3-22=0/1007, 4-22=-809/0, 4-20=0/521, 10-12=-1788/0, 10-13=0/1296, 9-13=-1449/0, 9-16=0/1017, 7-16=-819/0, 7-17=0/529, 6-17=-781/103, 5-20=-767/117

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
  - 3) All plates are 4x6 MT20 unless otherwise indicated.
  - 4) The Fabrication Tolerance at joint 21 = 4%
  - 5) Plates checked for a plus or minus 0 degree rotation about its center.
  - 6) 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.
  - 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.



April 3, 2019

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

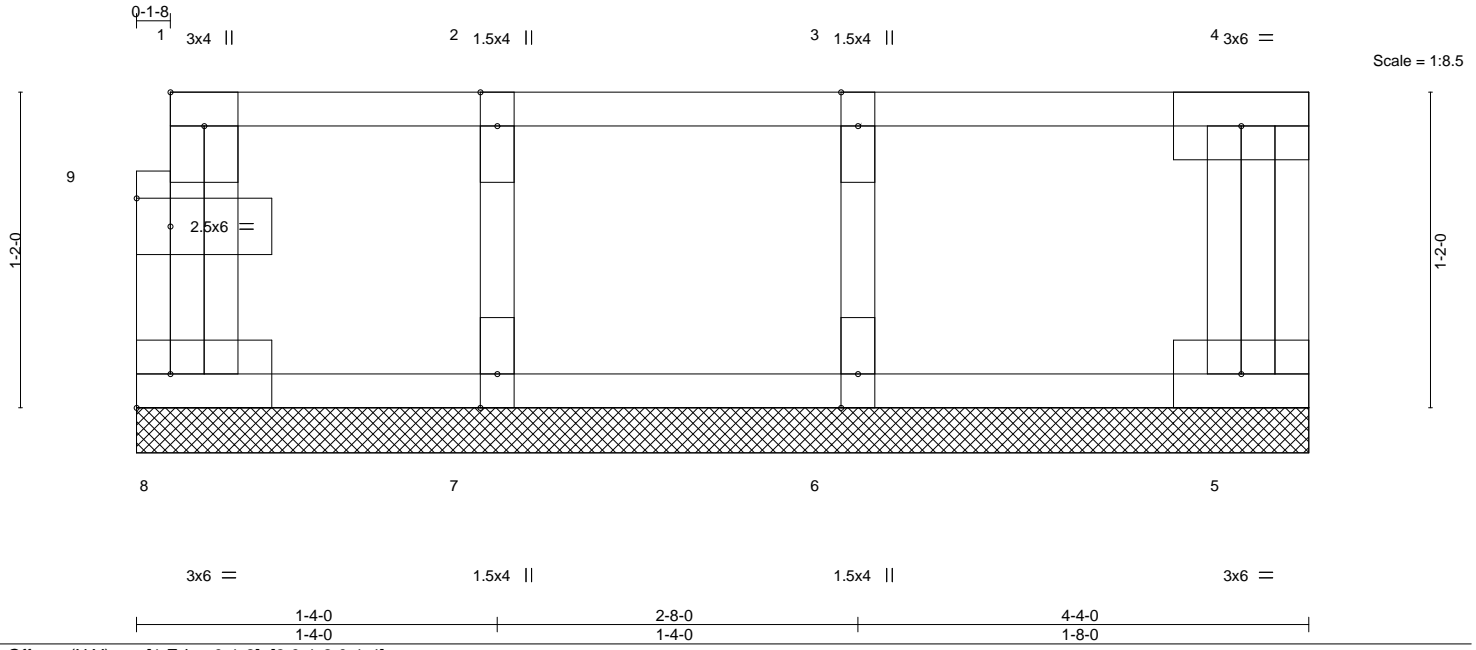


818 Soundside Road  
Edenton, NC 27932

Job P19-03028	Truss F11	Truss Type GABLE	Qty 1	Ply 1	2019-012 JOB# SCOTT Job Reference (optional)	E12870885
------------------	--------------	---------------------	----------	----------	---	-----------

Longleaf Truss Company, West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:43 2019 Page 1  
ID:hY1sjNjI5josHeWlHreg3zV2Nr-gy9EkVxuSAmf22DKidbXifLyaCBfj4EPy5ki\_2zUo6w



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.07	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.02	Vert(LL) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Vert(CT) n/a - n/a 999		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-R	Horz(CT) 0.00 5 n/a n/a		
				Weight: 23 lb	FT = 8%F, 4%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 (flat)	TOP CHORD Sheathed or 4-4-0 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 4-4-0.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

- NOTES-**
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
  - Plates checked for a plus or minus 0 degree rotation about its center.
  - 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 1-4-0 oc.
  - 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.
  - 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.
  - CAUTION, Do not erect truss backwards.

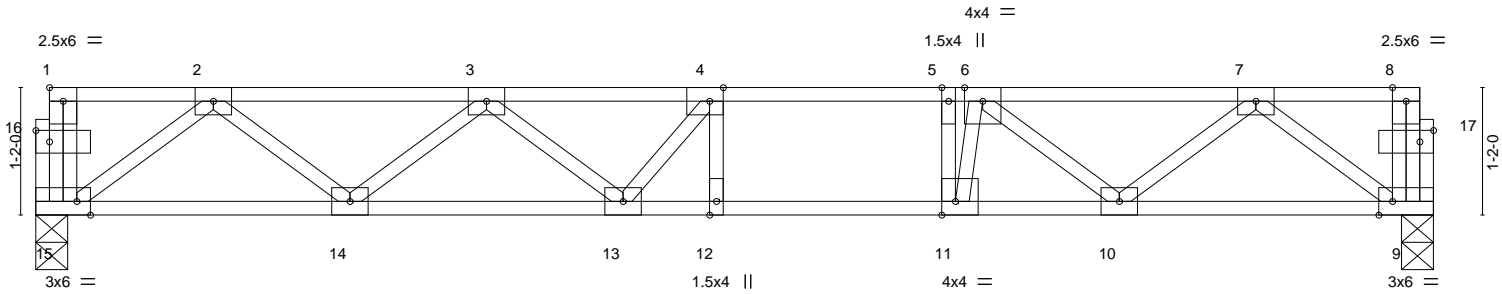
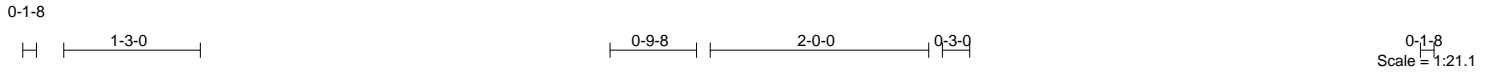


April 3, 2019

Job P19-03028	Truss F12	Truss Type Floor	Qty 6	Ply 1	2019-012 JOB# SCOTT Job Reference (optional)	E12870886
------------------	--------------	---------------------	----------	----------	---	-----------

Longleaf Truss Company, West End, NC - 27376,

8,240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:43 2019 Page 1  
ID:hY1sjNlj5josHeWlHreg3zV2Nr-gy9EKVxuSAmf22DKidbXifLrLc0rj?0Py5ki\_2zUo6w



6-3-8	7-3-8	8-3-8	12-9-8
6-3-8	1-0-0	1-0-0	4-6-0
Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,Edge], [15:0-1-8,Edge], [16:0-1-8,0-1-4], [17:0-1-8,0-1-4]			

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.53	Vert(LL)	-0.12	12-13	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.71	Vert(CT)	-0.16	12-13	>956	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.37	Horz(CT)	0.03	9	n/a	n/a		
BCDL 5.0	Code	IRC2018/TPI2014	Matrix-S							
									Weight: 67 lb	FT = 8%F, 4%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1 (flat)	TOP CHORD Sheathed 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) 15=677/0-3-8, 9=677/0-3-8

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1350/0, 3-4=-1945/0, 4-5=-1961/0, 5-6=-1941/0, 6-7=-1339/0  
 BOT CHORD 14-15=0/860, 13-14=0/1810, 12-13=0/1961, 11-12=0/1961, 10-11=0/1842, 9-10=0/860  
 WEBS 5-11=-603/0, 2-15=-1059/0, 2-14=0/638, 3-14=-599/0, 3-13=0/296, 7-9=-1059/0, 7-10=0/624, 6-10=-653/0, 6-11=0/772

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
  - 3) All plates are 3x4 MT20 unless otherwise indicated.
  - 4) Plates checked for a plus or minus 0 degree rotation about its center.
  - 5) 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.
  - 6) 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.



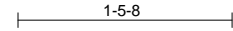
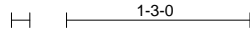
April 3, 2019

Job P19-03028	Truss F13	Truss Type Floor	Qty 1	Ply 1	2019-012 JOB# SCOTT Job Reference (optional)	E12870887
------------------	--------------	---------------------	----------	----------	---	-----------

Longleaf Truss Company, West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:44 2019 Page 1  
ID:hY1sjNijl5josHeWlHreg3zV2Nr-88jcxryWDUuWgBoXFL6mEtu5zbVOSVQZBITGWUzUo6v

0-1-8



Scale = 1:15.7

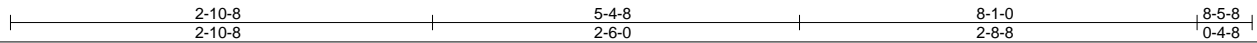
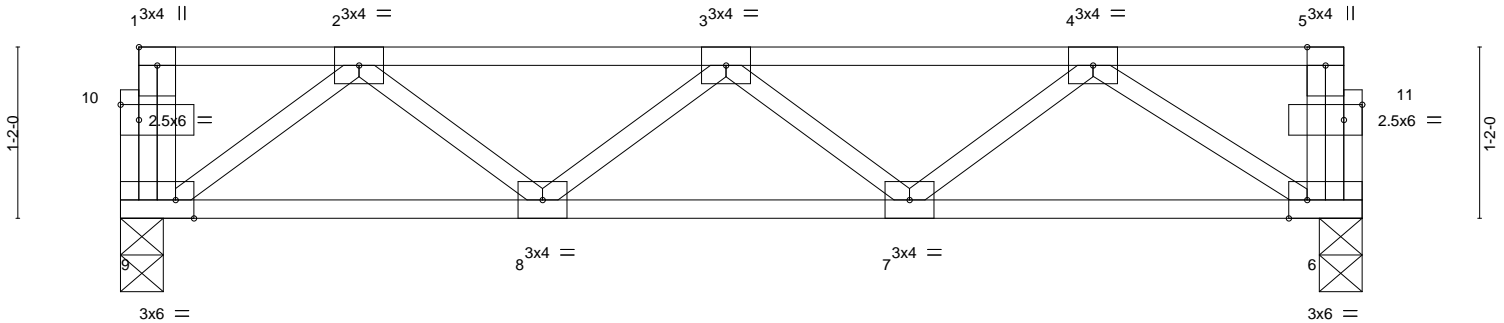


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,0-1-4], [11:0-1-8,0-1-4]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.22	Vert(LL)	-0.02	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.18	Vert(CT)	-0.02	7-8	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.01	6	n/a		
BCDL 5.0	Code	IRC2018/TPI2014	Matrix-P						
								Weight: 47 lb	FT = 8%F, 4%E

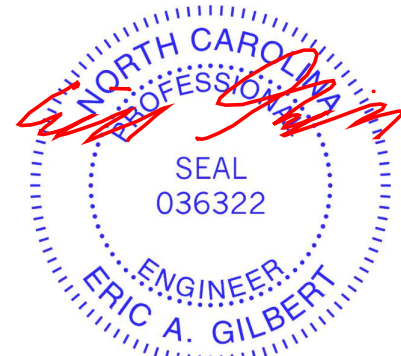
**LUMBER-**  
TOP CHORD 2x4 SP No.1 (flat)  
BOT CHORD 2x4 SP No.1 (flat)  
WEBS 2x4 SP No.3 (flat)

**BRACING-**  
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 9=438/0-3-8, 6=438/0-3-8

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-738/0, 3-4=-768/0  
BOT CHORD 8-9=0/534, 7-8=0/911, 6-7=0/590  
WEBS 2-9=-656/0, 2-8=0/267, 4-6=-694/0

- NOTES-**
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
  - Plates checked for a plus or minus 0 degree rotation about its center.
  - 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.
  - 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.



April 3, 2019

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road  
Edenton, NC 27932

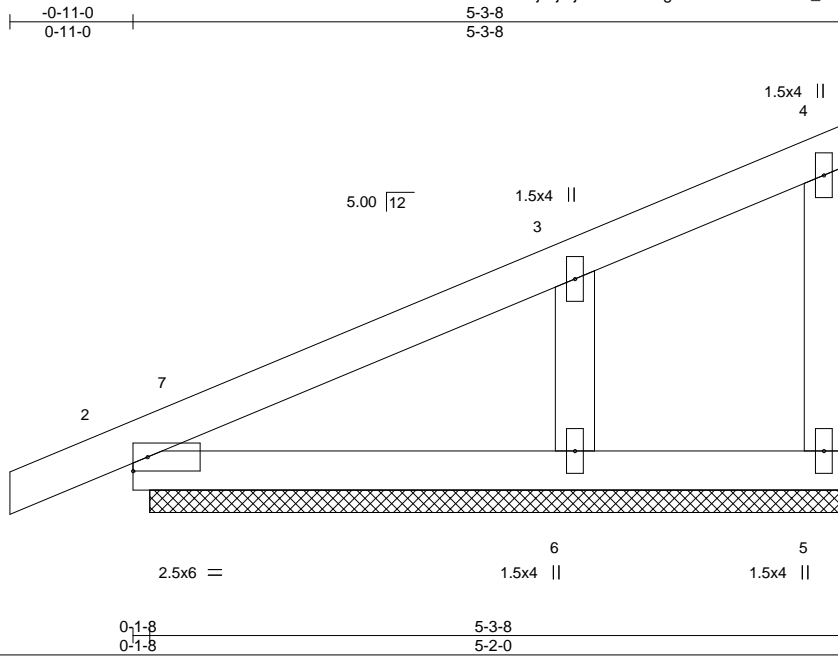
Job P19-03028	Truss M01	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	2019-012 JOB# SCOTT Job Reference (optional)	E12870888
------------------	--------------	---	----------	----------	---	-----------

Longleaf Truss Company,

West End, NC - 27376,

8,240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:45 2019 Page 1

ID:hY1sjNlj5josHeWIHreg3zV2Nr-cLH?9Bz8\_n0NILNjp2d?n4RIX?iQB\_aiPPDp2xzUo6u



Scale = 1:17.2

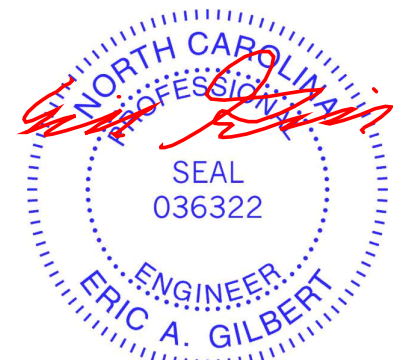
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) 0.00 1 n/r 120		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Vert(CT) 0.00 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 23 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1	TOP CHORD Sheathed or 5-3-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

**REACTIONS.** (lb/size) 5=27/5-2-0, 2=131/5-2-0, 6=206/5-2-0  
 Max Horz 2=73(LC 9)  
 Max Uplift 5=-5(LC 9), 2=-18(LC 12), 6=-11(LC 12)  
 Max Grav 5=37(LC 17), 2=172(LC 2), 6=282(LC 17)

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

- NOTES-**
- 1) 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
  - 2) 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.
  - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
  - 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 11.6 psf on overhangs non-concurrent with other live loads.
  - 6) Gable studs spaced at 2-0-0 oc.
  - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 8) \* 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.
  - 9) All bearings are assumed to be User Defined crushing capacity of 425 psi.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 5, 18 lb uplift at joint 2 and 11 lb uplift at joint 6.
  - 11) Non Standard bearing condition. Review required.
  - 12) 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.



April 3, 2019

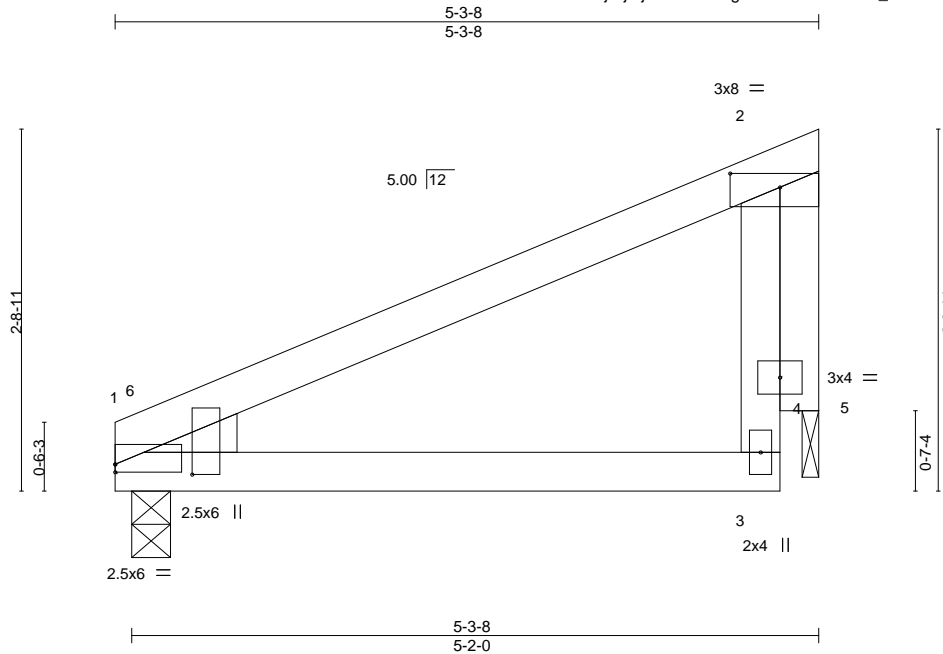
Job P19-03028	Truss M02	Truss Type Monopitch	Qty 3	Ply 1	2019-012 JOB# SCOTT	E12870889
					Job Reference (optional)	

Longleaf Truss Company,

West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:45 2019 Page 1

ID:hY1sjNlIj5josHeWlHreg3zV2Nr-cLH?9Bz8\_n0NILNjp2d?n4RFe?rEBwziPPDp2xzUo6u



Scale = 1:17.3

Plate Offsets (X,Y)-- [1:0-0-15,0-6-15], [1:0-0-0,0-0-11], [2:0-4-8,0-1-4]

<b>LOADING</b> (psf)		<b>SPACING-</b>	2-0-0	<b>CSI.</b>		<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.01	1-3	>999	240	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.03	1-3	>999	180	
TCDL	10.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	-0.00	5	n/a	n/a	
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-R							
BCDL	10.0									Weight: 23 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3

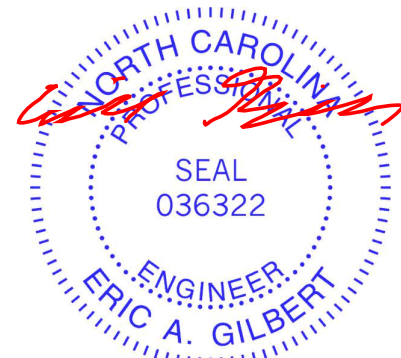
**BRACING-**  
TOP CHORD Sheathed or 5-3-8 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 1=160/0-3-8, 5=138/0-1-8  
Max Horz 1=45(LC 9)  
Max Uplift 5=11(LC 12)  
Max Grav 1=207(LC 17), 5=185(LC 17)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; 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
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 3) Unbalanced snow loads have been considered for this design.
- 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 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.
- 6) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 7) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 5.
- 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.



April 3, 2019

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road  
Edenton, NC 27932

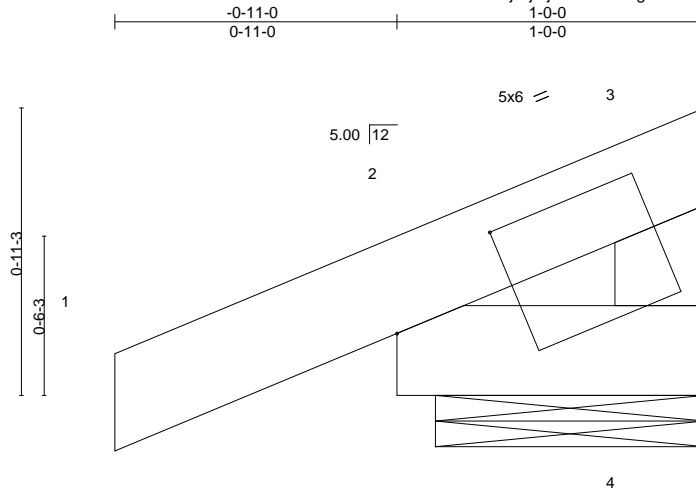


Job P19-03028	Truss M03	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	2019-012 JOB# SCOTT Job Reference (optional)	E12870890
------------------	--------------	---	----------	----------	---	-----------

Longleaf Truss Company,

West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:46 2019 Page 1  
ID:hY1sjNjI5josHeWIHreg3zV2Nr-4XrNMWzml58EvVyvNi8EJlZtIPDbwQVre3yMbNzUo6t



Scale = 1:7.5

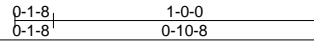


Plate Offsets (X,Y)-- [2:0-1-7,0-0-0], [3:0-4-14,0-2-4], [3:0-1-14,0-0-0], [4:0-1-10,0-0-11]

<b>LOADING</b> (psf)		<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	Vert(LL)	0.00	1	n/r	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	Vert(CT)	-0.00	1	n/r		
TCDL	10.0	Rep Stress Incr	YES	WB	Horz(CT)	-0.00	4	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P						
BCDL	10.0								Weight: 5 lb	FT = 20%

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

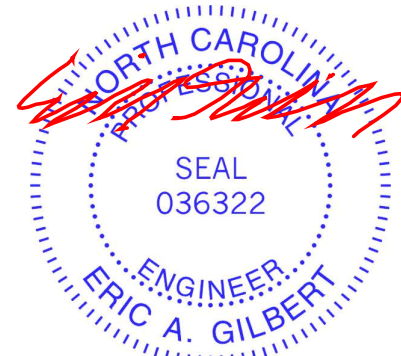
**BRACING-**  
TOP CHORD Sheathed or 1-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 4=-48/0-10-8, 2=135/0-10-8  
Max Horz 2=19(LC 9)  
Max Uplift 4=-69(LC 2), 2=-67(LC 12)  
Max Grav 4=37(LC 12), 2=186(LC 2)

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

**NOTES-**

- 1) 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
- 2) 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.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 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 11.6 psf on overhangs non-concurrent with other live loads.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* 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.
- 9) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 4 and 67 lb uplift at joint 2.
- 11) Non Standard bearing condition. Review required.
- 12) 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.



April 3, 2019

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road  
Edenton, NC 27932

Job P19-03028	Truss T01	Truss Type Common	Qty 6	Ply 1	2019-012 JOB# SCOTT	E12870891
					Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:47 2019 Page 1  
ID:hY1sjNijl5josHeWIHreg3zV2Nr-YjPlas\_OWPG4XfX6xTfTsVWVlPtxrc?7jjw7pzUo6s



Scale = 1:28.5

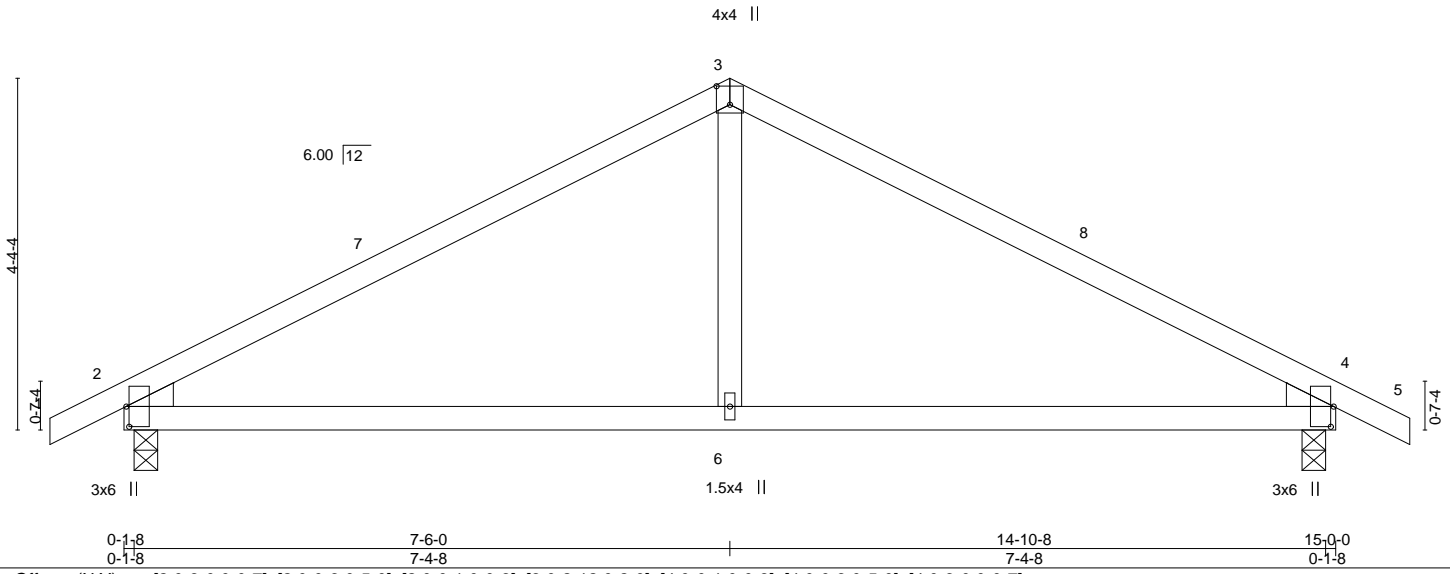


Plate Offsets (X,Y)-- [2:0-3-0,0-0-7], [2:0-0-3,0-5-0], [2:0-0-1,0-0-3], [3:0-2-12,0-2-0], [4:0-0-1,0-0-3], [4:0-0-3,0-5-0], [4:0-3-0,0-0-7]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.66	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.44	Vert(LL) -0.06 2-6 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.14	Vert(CT) -0.14 2-6 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 58 lb	FT = 20%

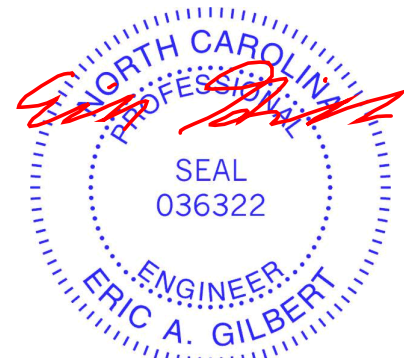
**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3, Right: 2x4 SP No.3

**BRACING-**  
TOP CHORD Sheathed or 5-1-1 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 2=510/0-3-8, 4=510/0-3-8  
Max Horz 2=-73(LC 10)  
Max Uplift 2=-26(LC 12), 4=-26(LC 12)  
Max Grav 2=652(LC 2), 4=652(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-806/18, 3-4=-806/0  
BOT CHORD 2-6=0/617, 4-6=0/617  
WEBS 3-6=0/359

- 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=4ft; 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
  - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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 11.6 psf on overhangs non-concurrent with other live loads.
  - 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 26 lb uplift at joint 2 and 26 lb uplift at joint 4.
  - 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.



April 3, 2019

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

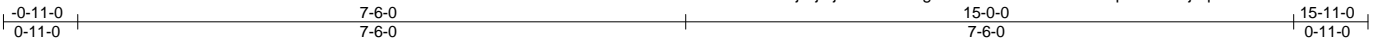


818 Soundside Road  
Edenton, NC 27932

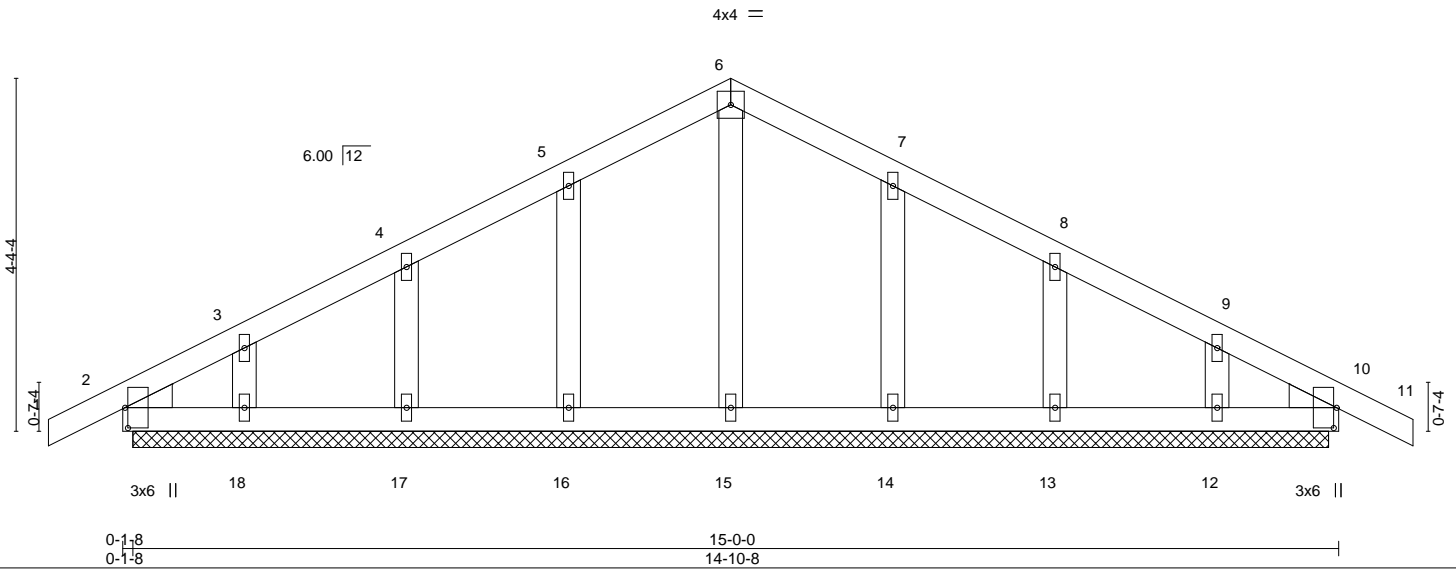
Job P19-03028	Truss T01GE	Truss Type Common Supported Gable	Qty 1	Ply 1	2019-012 JOB# SCOTT	E12870892
					Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:48 2019 Page 1  
ID:hY1sjNlj5josHeWlHreg3zV2Nr-0vz7nC?1GiOx9p6lUAAiPj2qkDvOKP85NRTfGzUo6r



Scale = 1:28.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 2-0-0	TC 0.04	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Lumber DOL 1.15	BC 0.02	Vert(LL) -0.00 11 n/r 120		
TCDL 10.0	Rep Stress Incr YES	WB 0.04	Vert(CT) -0.00 11 n/r 120		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.00 10 n/a n/a		
BCDL 10.0				Weight: 74 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
OTHERS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3, Right: 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.

**REACTIONS.** All bearings 14-9-0.  
(lb) - Max Horz 2=-73(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 16, 17, 18, 14, 13, 12  
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13, 12

**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 7-16; 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=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); ls=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 11.6 psf on overhangs non-concurrent with other live loads.
  - All plates are 1.5x4 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 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, 10, 16, 17, 18, 14, 13, 12.
  - Non Standard bearing condition. Review required.
  - 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.



April 3, 2019



Job P19-03028	Truss T02GE	Truss Type Common Supported Gable	Qty 1	Ply 1	2019-012 JOB# SCOTT	E12870894
					Job Reference (optional)	

Longleaf Truss Company,

West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:51 2019 Page 1

ID:hY1sjNijl5josHeWlHreg3zV2Nr-RUeGPE1vZdmW0GqtAJkP0LgL\_QwRbfbboLg7GazUo6o

-0-11-0 15-3-8 30-7-0 31-6-0  
 0-11-0 15-3-8 15-3-8 0-11-0

Scale = 1:54.3

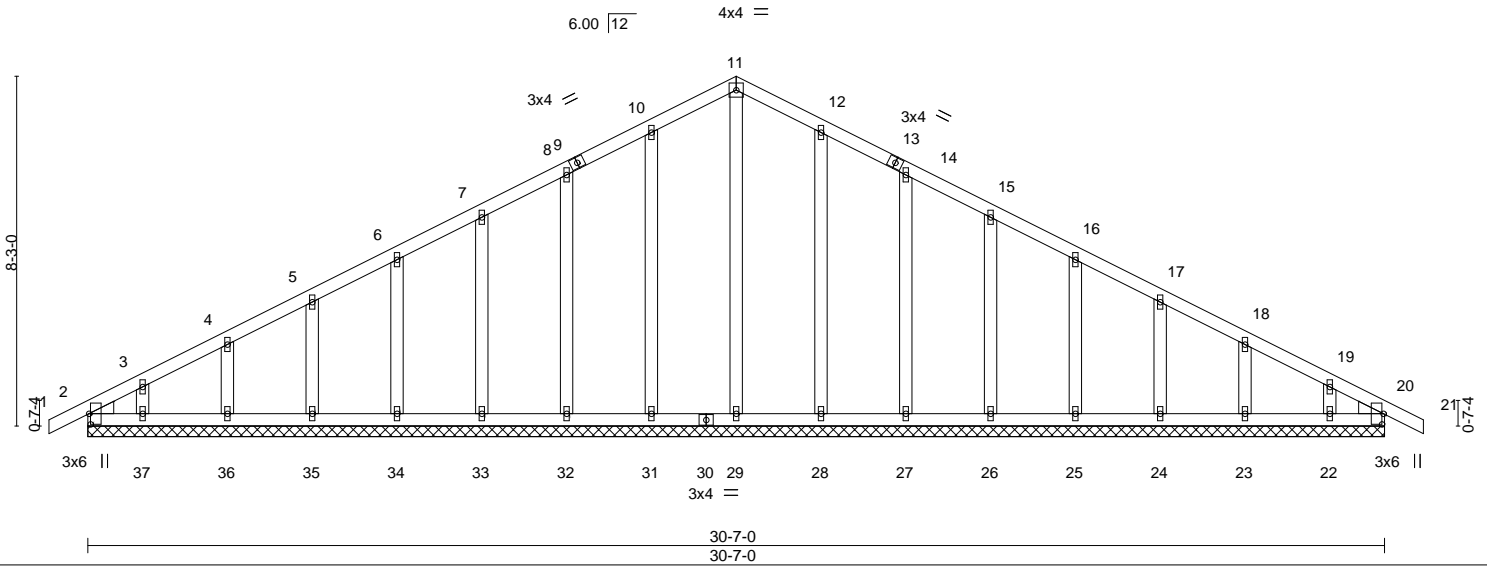


Plate Offsets (X,Y)-- [2:0-0-1,0-0-3], [2:0-0-3,0-5-0], [2:0-3-0,0-0-7], [20:0-0-1,0-0-3], [20:0-0-3,0-5-0], [20:0-3-0,0-0-7]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.04	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Lumber DOL 1.15	BC 0.02	Vert(LL) -0.00 21 n/r 120		
TCDL 10.0	Rep Stress Incr YES	WB 0.14	Vert(CT) -0.00 21 n/r 120		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.00 20 n/a n/a		
BCDL 10.0				Weight: 190 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 OTHERS 2x4 SP No.3  
 WEDGE  
 Left: 2x4 SP No.3, Right: 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.

**REACTIONS.** All bearings 30-7-0.  
 (lb) - Max Horz 2=147(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 31, 32, 33, 34, 35, 36, 37, 28, 27, 26, 25, 24, 23, 22  
 Max Grav All reactions 250 lb or less at joint(s) 2, 29, 31, 32, 33, 34, 35, 36, 37, 28, 27, 26, 25, 24, 23, 22, 20

**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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=31ft; 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=15.0 psf; Pf=11.6 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 11.6 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, 31, 32, 33, 34, 35, 36, 37, 28, 27, 26, 25, 24, 23, 22.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 20.
  - 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.



April 3, 2019

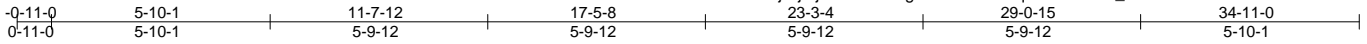
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For additional guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY  
**TRENCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932

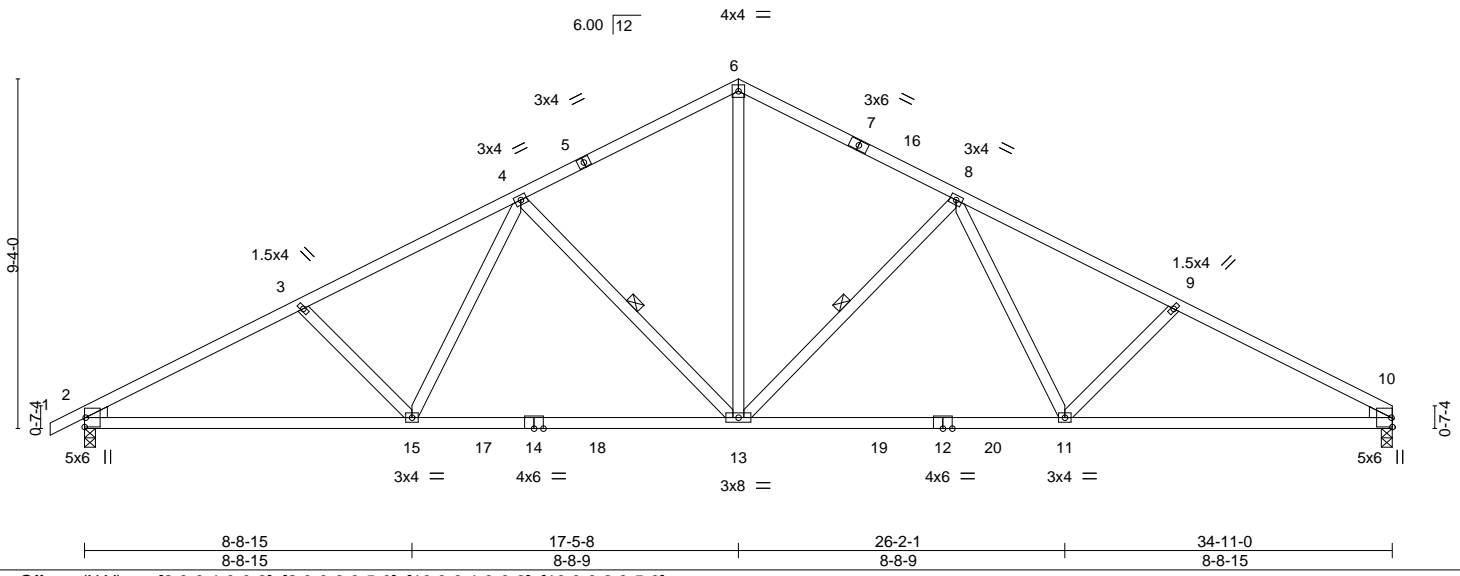
Job P19-03028	Truss T03	Truss Type Common	Qty 6	Ply 1	2019-012 JOB# SCOTT Job Reference (optional)	E12870895
------------------	--------------	----------------------	----------	----------	---	-----------

Longleaf Truss Company, West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:53 2019 Page 1  
ID:hY1sjNjI5josHeWIHreg3zV2Nr-Ntm0qw395F1EFa\_FHkmt5mmXHEQf3TDtF9ELTzUo6m



Scale = 1:61.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.69	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Lumber DOL 1.15	BC 0.81	Vert(LL) -0.21 13-15 >999 240		
TCDL 10.0	Rep Stress Incr YES	WB 0.51	Vert(CT) -0.37 13-15 >999 180		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.10 10 n/a n/a		
BCDL 10.0				Weight: 182 lb	FT = 20%

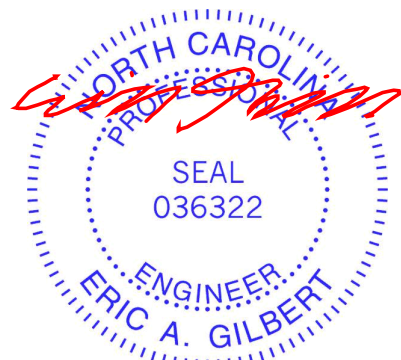
**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3, Right: 2x4 SP No.3

**BRACING-**  
TOP CHORD Sheathed or 3-3-6 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 8-13, 4-13

**REACTIONS.** (lb/size) 2=1139/0-3-8, 10=1092/0-3-8  
Max Horz 2=170(LC 11)  
Max Uplift 2=-26(LC 12)  
Max Grav 2=1632(LC 24), 10=1573(LC 25)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2725/41, 3-4=-2545/47, 4-6=-1781/93, 6-8=-1780/93, 8-9=-2551/50, 9-10=-2732/45  
BOT CHORD 2-15=0/2451, 13-15=0/2065, 11-13=0/1959, 10-11=0/2333  
WEBS 6-13=-8/1249, 8-13=-708/76, 8-11=0/571, 4-13=-705/75, 4-15=0/565

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=35ft; eave=4ft; 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
  - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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 11.6 psf on overhangs non-concurrent with other live loads.
  - 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, with BCDL = 10.0psf.
  - 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.
  - 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.

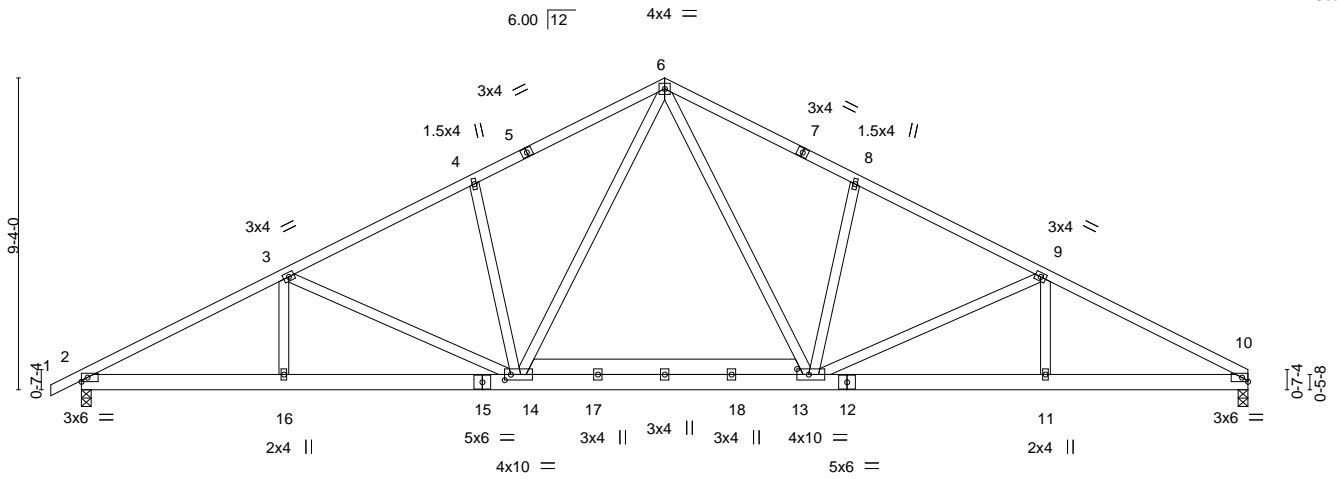


April 3, 2019

Job P19-03028	Truss T03A	Truss Type Common	Qty 1	Ply 1	2019-012 JOB# SCOTT	E12870896
Longleaf Truss Company, West End, NC - 27376,					8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:54 2019 Page 1	
					Job Reference (optional)	

0-11-0	6-0-11	11-9-2	17-5-8	23-1-14	28-10-5	34-11-0	35-10-0
0-11-0	6-0-11	5-8-6	5-8-6	5-8-6	5-8-6	6-0-11	0-11-0

Scale = 1:69.0



6-0-11	13-0-0	21-11-0	28-10-5	34-11-0
6-0-11	6-11-5	8-11-0	6-11-5	6-0-11

Plate Offsets (X, Y)-- [13:0-4-3,0-2-0], [14:0-2-3,0-2-0]

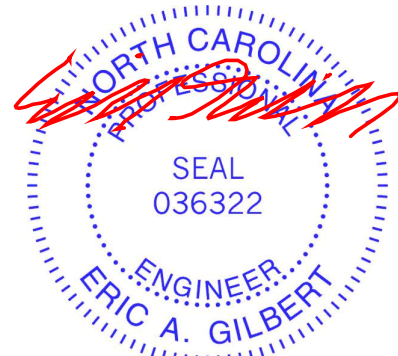
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) -0.14 13-14 >999 240	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.25 13-14 >999 180		
TCDL 10.0	Rep Stress Incr YES	WB 0.56	Horz(CT) 0.07 10 n/a n/a		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-S			
BCDL 10.0				Weight: 237 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1	TOP CHORD Sheathed or 3-4-5 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

**REACTIONS.** (lb/size) 2=1139/0-3-8, 10=1092/0-3-8  
 Max Horz 2=169(LC 11)  
 Max Uplift 2=-26(LC 12)  
 Max Grav 2=1619(LC 24), 10=1559(LC 25)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2791/15, 3-4=-2240/60, 4-6=-2171/108, 6-8=-2170/108, 8-9=-2239/60, 9-10=-2798/18  
 BOT CHORD 2-16=0/2500, 14-16=0/2500, 13-14=0/1548, 11-13=0/2387, 10-11=0/2387  
 WEBS 6-13=-12/949, 8-13=-328/96, 9-13=-515/39, 6-14=-11/948, 4-14=-332/97, 3-14=-501/34

- 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=35ft; eave=4ft; 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
  - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
  - 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 11.6 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, with BCDL = 10.0psf.
  - 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 100 lb uplift at joint(s) 2.
  - 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.



April 3, 2019

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-743 rev. 10/03/2015 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road  
Edenton, NC 27932





Job P19-03028	Truss T04	Truss Type Common	Qty 5	Ply 1	2019-012 JOB# SCOTT	E12870898
					Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:58 2019 Page 1  
ID:hY1sjNljf5josHeWlHreg3zV2Nr-krZvtD7lwnfXLLtD4HM2oqTTzFDakkpcPws?0gzUo6h

0-11-0	6-0-11	11-9-2	17-5-8	23-1-14	28-10-5	34-11-0	35-10-0
0-11-0	6-0-11	5-8-6	5-8-6	5-8-6	5-8-6	6-0-11	0-11-0

Scale = 1:69.7

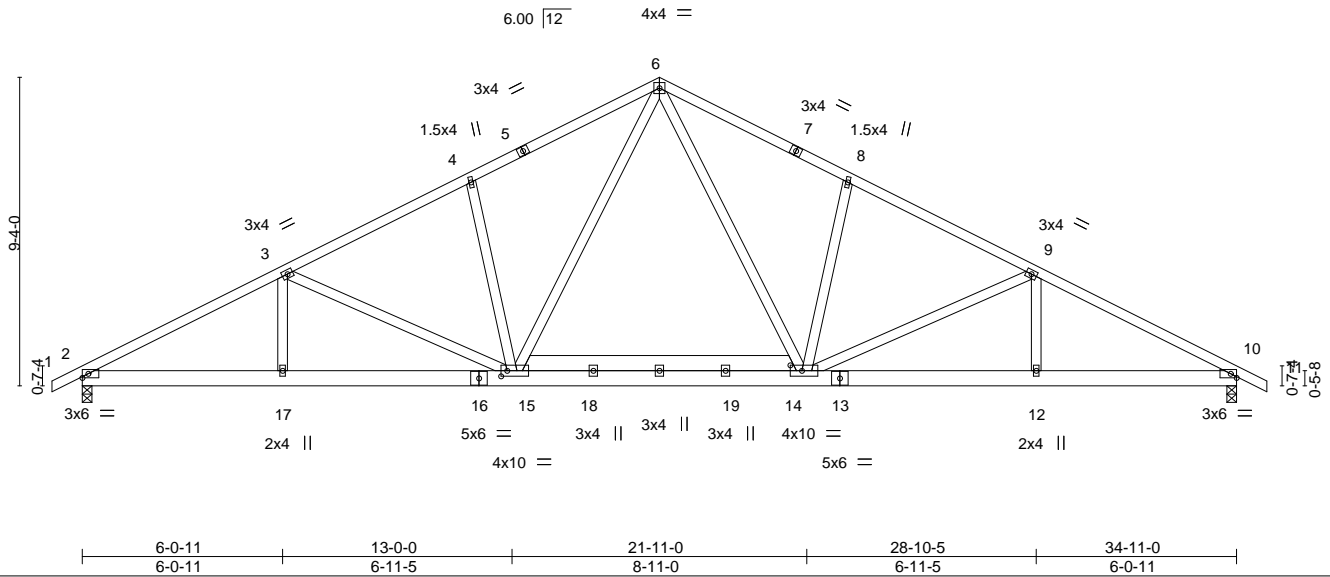


Plate Offsets (X,Y)-- [14:0-4-3,0-2-0], [15:0-2-3,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.38	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Lumber DOL 1.15	BC 0.44	Vert(LL) -0.14 14-15 >999 240		
TCDL 10.0	Rep Stress Incr YES	WB 0.55	Vert(CT) -0.25 14-15 >999 180		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.07 10 n/a n/a		
BCDL 10.0				Weight: 239 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.3

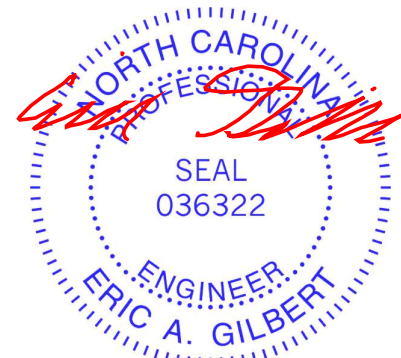
**BRACING-**  
TOP CHORD Sheathed or 3-6-4 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 2=1138/0-3-8, 10=1138/0-3-8  
Max Horz 2=-171(LC 10)  
Max Uplift 2=-26(LC 12), 10=-26(LC 12)  
Max Grav 2=1618(LC 24), 10=1618(LC 25)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2789/15, 3-4=-2238/59, 4-6=-2170/107, 6-8=-2167/107, 8-9=-2236/59, 9-10=-2792/15  
BOT CHORD 2-17=0/2502, 15-17=0/2502, 14-15=0/1549, 12-14=0/2376, 10-12=0/2376  
WEBS 6-14=-11/947, 8-14=-332/97, 9-14=-506/35, 6-15=-11/948, 4-15=-332/97, 3-15=-501/35

**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=35ft; eave=4ft; 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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 11.6 psf on overhangs non-concurrent with other live loads.
- 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, with BCDL = 10.0psf.
- 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, 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.



April 3, 2019

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road  
Edenton, NC 27932

Job P19-03028	Truss T05	Truss Type Common	Qty 4	Ply 1	2019-012 JOB# SCOTT	E12870899
Longleaf Truss Company, West End, NC - 27376,					8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:59 2019 Page 1	
					Job Reference (optional)	

-0-11-0	6-0-11	11-9-2	17-5-8	23-1-14	28-10-5	34-11-0	35-10-0
0-11-0	6-0-11	5-8-6	5-8-6	5-8-6	5-8-6	6-0-11	0-11-0

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:50:59 2019 Page 1  
 ID:hY1sjNijI5josHeWlHreg3zV2Nr-C17H5z8wh5nNzVSPe\_tHL10ZLeZiTB6mdacYY7zUo6g

Scale: 3/16"=1'

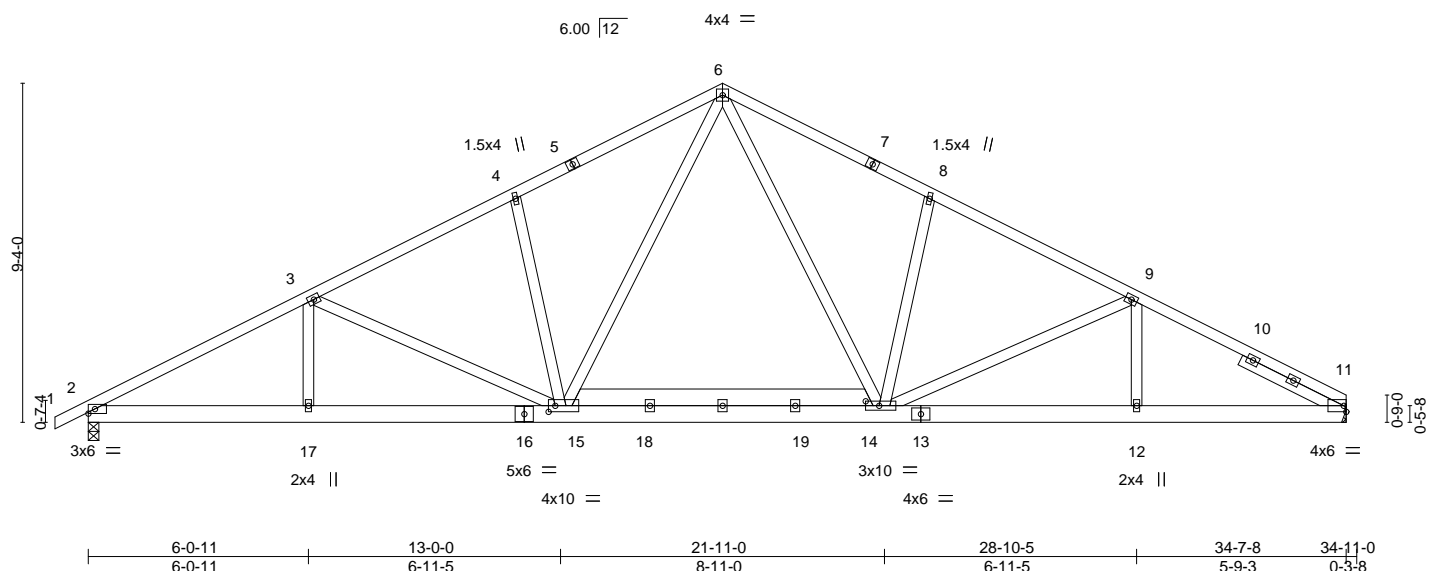


Plate Offsets (X,Y)--	[14:0-4-7,0-1-8], [15:0-2-3,0-2-0]
-----------------------	------------------------------------

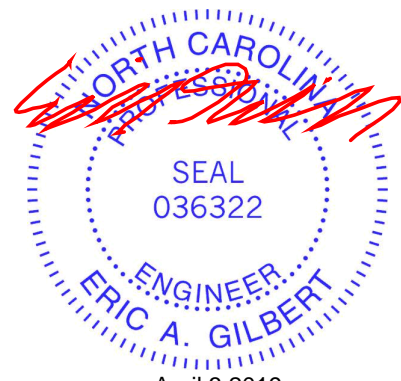
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.59	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.43	Vert(LL) -0.13 14-15 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.55	Vert(CT) -0.24 14-15 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.07 11 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 241 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1	TOP CHORD Sheathed or 3-1-12 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Right 2x4 SP No.3 3-1-4	

**REACTIONS.** (lb/size) 2=1132/0-3-8, 11=1085/Mechanical  
 Max Horz 2=169(LC 11)  
 Max Uplift 2=-26(LC 12)  
 Max Grav 2=1610(LC 24), 11=1549(LC 25)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2773/15, 3-4=-2220/60, 4-6=-2152/108, 6-8=-2149/108, 8-9=-2199/60, 9-11=-2662/21  
 BOT CHORD 2-17=0/2484, 15-17=0/2484, 14-15=0/1531, 12-14=0/2252, 11-12=0/2249  
 WEBS 6-14=-12/939, 8-14=-356/97, 9-14=-380/38, 6-15=-11/944, 4-15=-333/97, 3-15=-503/34

- 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=35ft; eave=4ft; 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
  - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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 11.6 psf on overhangs non-concurrent with other live loads.
  - All plates are 3x4 MT20 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 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, with BCDL = 10.0psf.
  - All bearings are assumed to be User Defined crushing capacity of 425 psi.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
  - 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.



Job P19-03028	Truss T07	Truss Type Common Structural Gable	Qty 1	Ply 1	2019-012 JOB# SCOTT Job Reference (optional)	E12870900
------------------	--------------	---------------------------------------	----------	----------	---	-----------

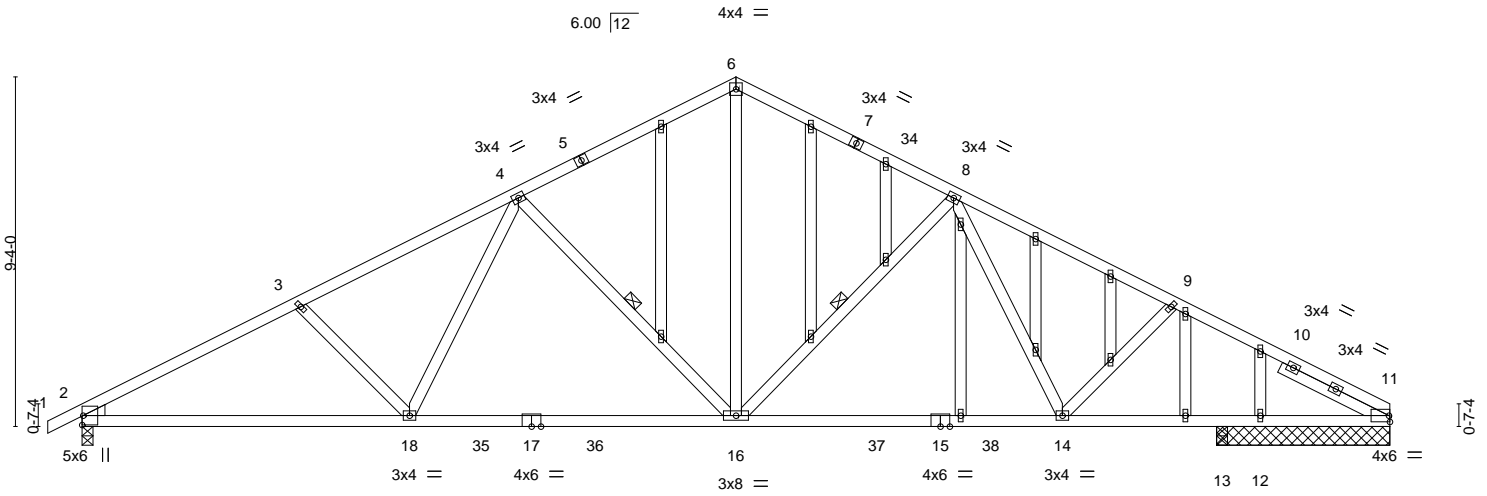
Longleaf Truss Company, West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:51:01 2019 Page 1

ID:hY1sjNjlj5josHeWIHreg3zV2Nr-8QF2Wf9ADi15DpbolPvIQS5uRS9ox6M35u5fd?zUo6e

0-11-0 0-11-0	5-10-1 5-10-1	11-7-12 5-9-12	17-5-8 5-9-12	23-3-4 5-9-12	29-0-15 5-9-12	34-11-0 5-10-1
------------------	------------------	-------------------	------------------	------------------	-------------------	-------------------

Scale = 1:61.5



8-8-15 8-8-15	17-5-8 8-8-9	26-2-1 8-8-9	30-7-0 4-4-15	34-11-0 4-4-0
------------------	-----------------	-----------------	------------------	------------------

Plate Offsets (X,Y)-- [2:0-0-1,0-0-3], [2:0-0-3,0-5-0]

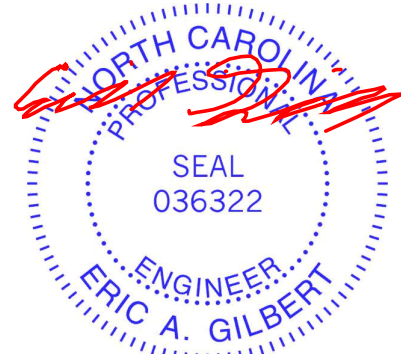
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.68	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Lumber DOL 1.15	BC 0.79	Vert(LL) -0.25 14-16 >999 240		
TCDL 10.0	Rep Stress Incr YES	WB 0.50	Vert(CT) -0.46 14-16 >782 180		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.10 11 n/a n/a		
BCDL 10.0				Weight: 231 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1	TOP CHORD Sheathed or 3-5-5 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 8-16, 4-16
OTHERS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3	
SLIDER Right 2x4 SP No.3 3-2-1	

**REACTIONS.** All bearings 0-3-8 except (jt=length) 11=4-7-8, 12=4-7-8.  
 (lb) - Max Horz 2=170(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 11, 12  
 Max Grav All reactions 250 lb or less at joint(s) 12, 13 except 2=1613(LC 24), 11=1414(LC 25)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2684/50, 3-4=-2504/56, 4-6=-1746/101, 6-8=-1747/101, 8-9=-2375/82, 9-11=-2572/80  
 BOT CHORD 2-18=0/2416, 16-18=0/2031, 14-16=0/1880, 13-14=-18/2179, 12-13=-18/2179, 11-12=-18/2179  
 WEBS 6-16=-15/1225, 8-16=-638/92, 8-14=0/414, 4-16=-702/76, 4-18=0/559

- 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=35ft; eave=4ft; 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=15.0 psf; Pf=11.6 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 11.6 psf on overhangs non-concurrent with other live loads.
  - All plates are 1.5x4 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 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, with BCDL = 10.0psf.
  - 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, 11, 12.



April 3, 2019

Continued on page 2

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>818 Soundside Road Edenton, NC 27932</p>
---	---

Job P19-03028	Truss T07	Truss Type Common Structural Gable	Qty 1	Ply 1	2019-012 JOB# SCOTT Job Reference (optional)	E12870900
------------------	--------------	---------------------------------------	----------	----------	---	-----------

Longleaf Truss Company, West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:51:01 2019 Page 2  
ID:hY1sjNjl5josHeWIHreg3zV2Nr-8QF2Wf9ADi15DpbolPvIQS5uRS9ox6M35u5fd?zUo6e

**NOTES-**

13) 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.

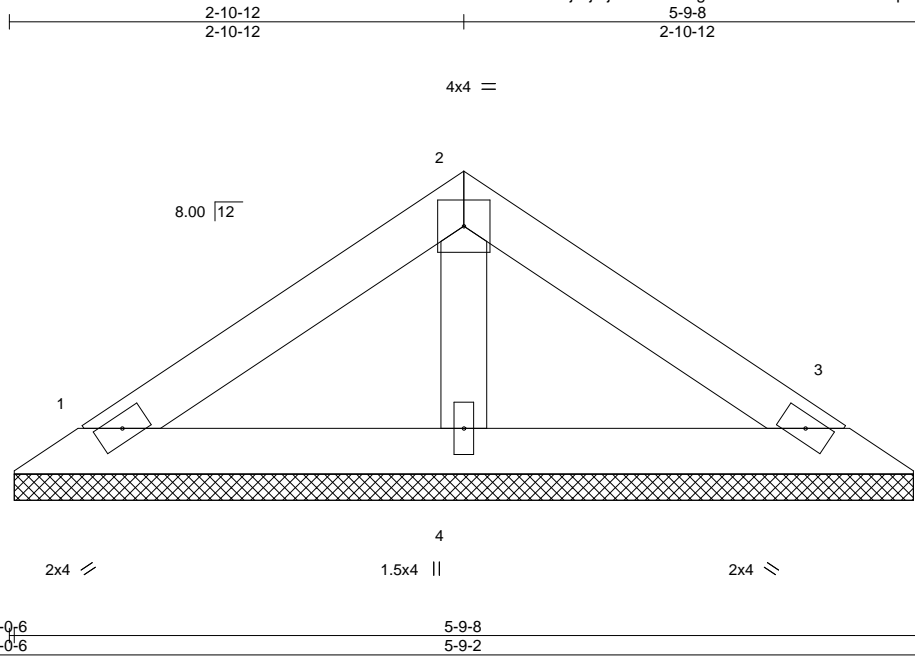
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road  
Edenton, NC 27932

Job P19-03028	Truss V01	Truss Type Valley	Qty 1	Ply 1	2019-012 JOB# SCOTT	E12870901
Longleaf Truss Company, West End, NC - 27376,					8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:51:01 2019 Page 1	
					Job Reference (optional)	
					ID:hY1sjNjI5josHeWlHreg3zV2Nr-8QF2Wf9ADi15DpbolPvlQSS1pSLRxDr35u5fd?zUo6e	
					5-9-8 2-10-12	



Scale = 1:14.7

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.08	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 19 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 5-9-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 1=81/5-8-12, 3=81/5-8-12, 4=143/5-8-12  
Max Horz 1=30(LC 11)  
Max Uplift 1=-10(LC 12), 3=-10(LC 12)  
Max Grav 1=106(LC 2), 3=106(LC 2), 4=175(LC 2)

**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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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.
  - 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 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) 1, 3.
  - 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.



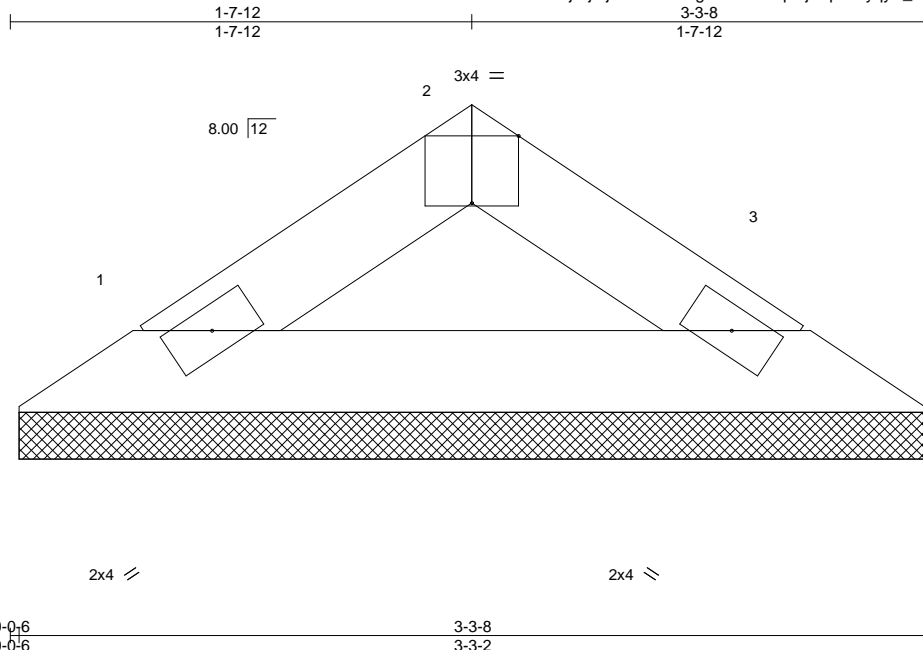
April 3, 2019

Job P19-03028	Truss V02	Truss Type Valley	Qty 1	Ply 1	2019-012 JOB# SCOTT Job Reference (optional)	E12870902
------------------	--------------	----------------------	----------	----------	---	-----------

Longleaf Truss Company,

West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:51:02 2019 Page 1  
ID:hY1sjNlj5josHeWIHreg3zV2Nr-ccpQj?Apz09yqyA\_J7R\_zgeDbsgdggSCJYqC9Szu06d



Scale = 1:8.2

Plate Offsets (X,Y)-- [2:0-2-0,Edge]	2:0-2-0	3:3-8	3:3-2		
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.02	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.05	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 9 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1	TOP CHORD Sheathed or 3-3-8 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 1=73/3-2-12, 3=73/3-2-12  
Max Horz 1=15(LC 11)  
Max Grav 1=93(LC 2), 3=93(LC 2)

**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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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.
  - 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 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.
  - 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.

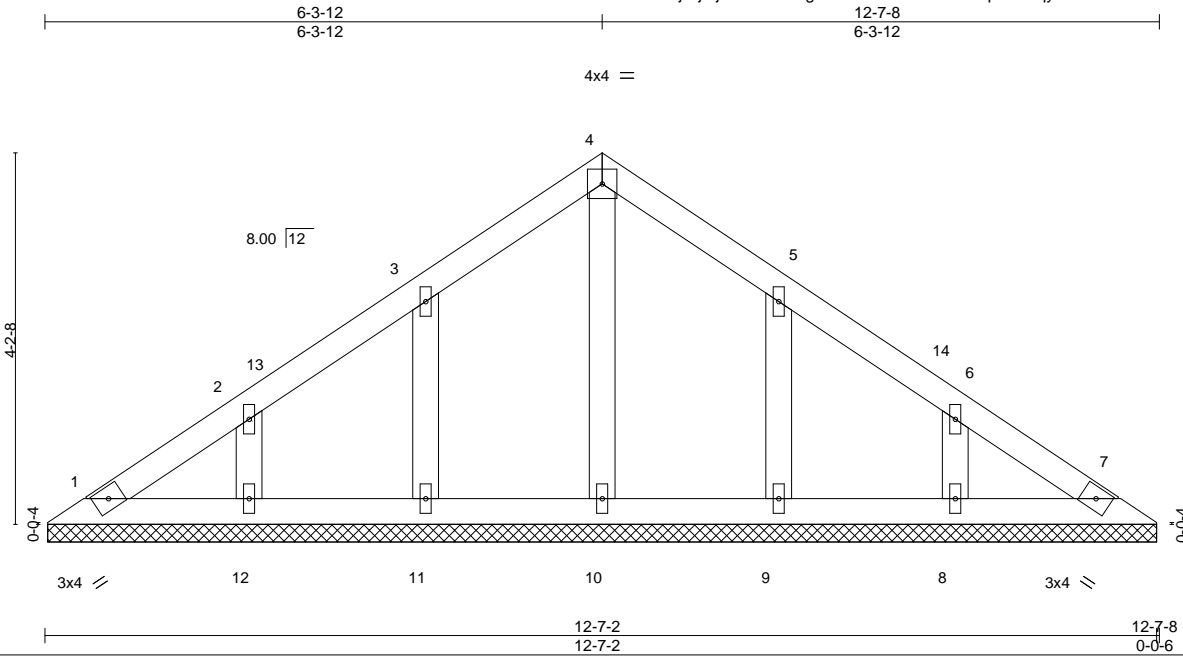


April 3, 2019

Job P19-03028	Truss V03	Truss Type Valley	Qty 1	Ply 1	2019-012 JOB# SCOTT Job Reference (optional)	E12870903
------------------	--------------	----------------------	----------	----------	---	-----------

Longleaf Truss Company, West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:51:03 2019 Page 1  
ID:hY1sjNlj5josHeWIhreg3zV2Nr-4oNoxKBRkJHpS6lAtqyDVtAOWG0EP79MYCamhuzUo6c



Scale = 1:26.1

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.04	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 7 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 55 lb	FT = 20%

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

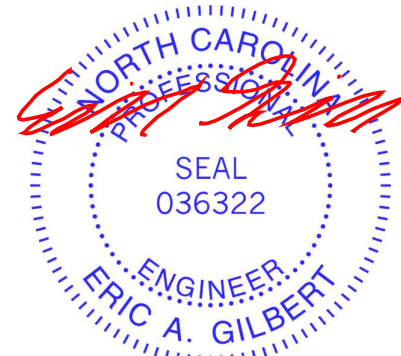
**BRACING-**  
TOP CHORD Sheathed or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 12-6-12.  
(lb) - Max Horz 1=73(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 11, 12, 9, 8  
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 12, 9, 8

**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 7-16; 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; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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.
- All plates are 1.5x4 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 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) 11, 12, 9, 8.
- 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.



April 3, 2019

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



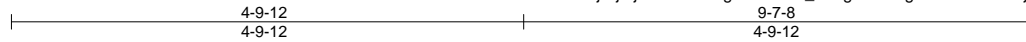
818 Soundside Road  
Edenton, NC 27932

Job P19-03028	Truss V04	Truss Type Valley	Qty 1	Ply 1	2019-012 JOB# SCOTT Job Reference (optional)	E12870904
------------------	--------------	----------------------	----------	----------	---	-----------

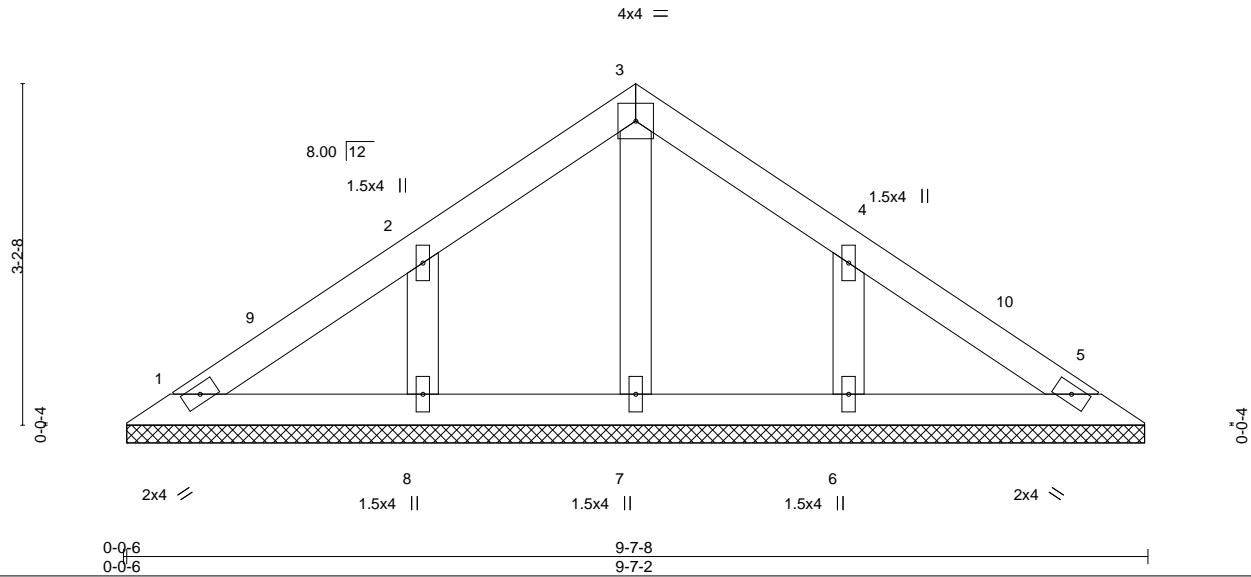
Longleaf Truss Company,

West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:51:04 2019 Page 1  
ID:hY1sjNljl5josHeWlHreg3zV2Nr-Y\_xA8gB3VdPg4GKNQXTS25jZQfMK8ZQVnsJJDkzUo6b



Scale = 1:21.6



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.06	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 38 lb	FT = 20%

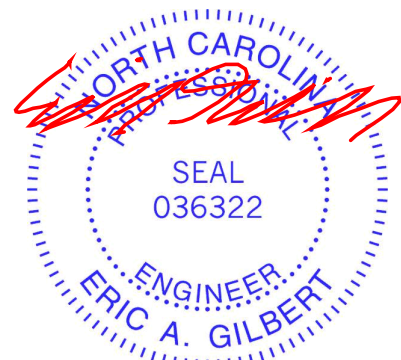
**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD Sheathed or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 9-6-12.  
(lb) - Max Horz 1=54(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 8, 6  
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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; 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
  - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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.
  - 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 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) 8, 6.
  - 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.



April 3, 2019

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road  
Edenton, NC 27932



Job P19-03028	Truss V05	Truss Type Valley	Qty 1	Ply 1	2019-012 JOB# SCOTT Job Reference (optional)	E12870905
------------------	--------------	----------------------	----------	----------	---	-----------

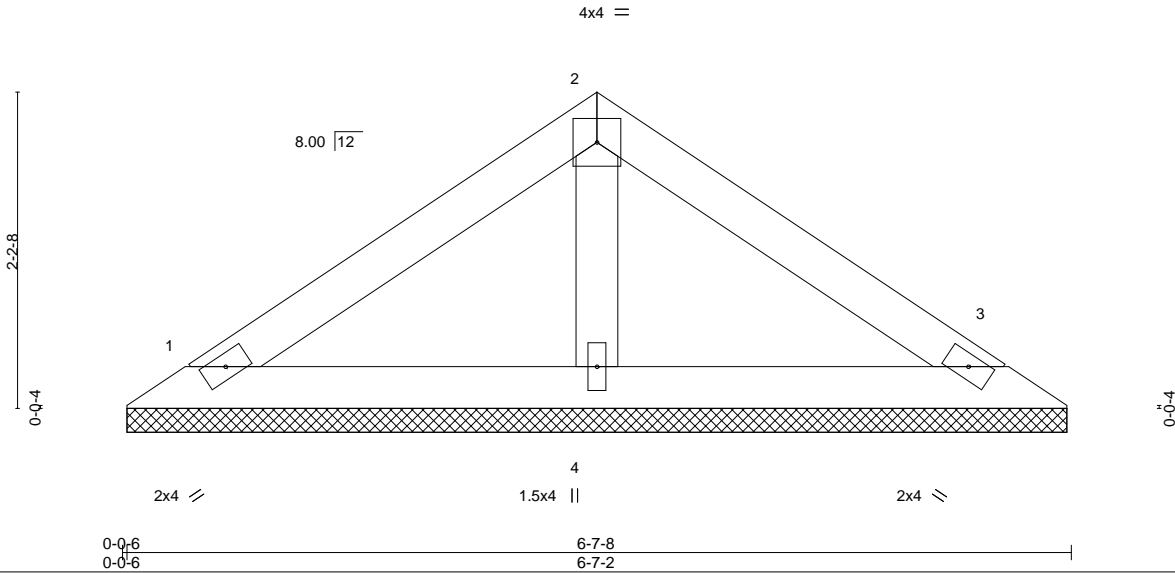
Longleaf Truss Company,

West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:51:05 2019 Page 1  
ID:hY1sjNljl5josHeWlHreg3zV2Nr-1BUYLOChGxXXhQvZ\_F\_hblGjC3i7t0ne0W3trmmzUo6a



Scale: 3/4"=1'



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.12	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 22 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.

**REACTIONS.**

(lb/size) 1=95/6-6-12, 3=95/6-6-12, 4=167/6-6-12  
Max Horz 1=36(LC 11)  
Max Uplift 1=-12(LC 12), 3=-12(LC 12)  
Max Grav 1=126(LC 16), 3=126(LC 17), 4=205(LC 2)

**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 7-16; 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; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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.
- 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 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) 1, 3.
- 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.



April 3, 2019

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



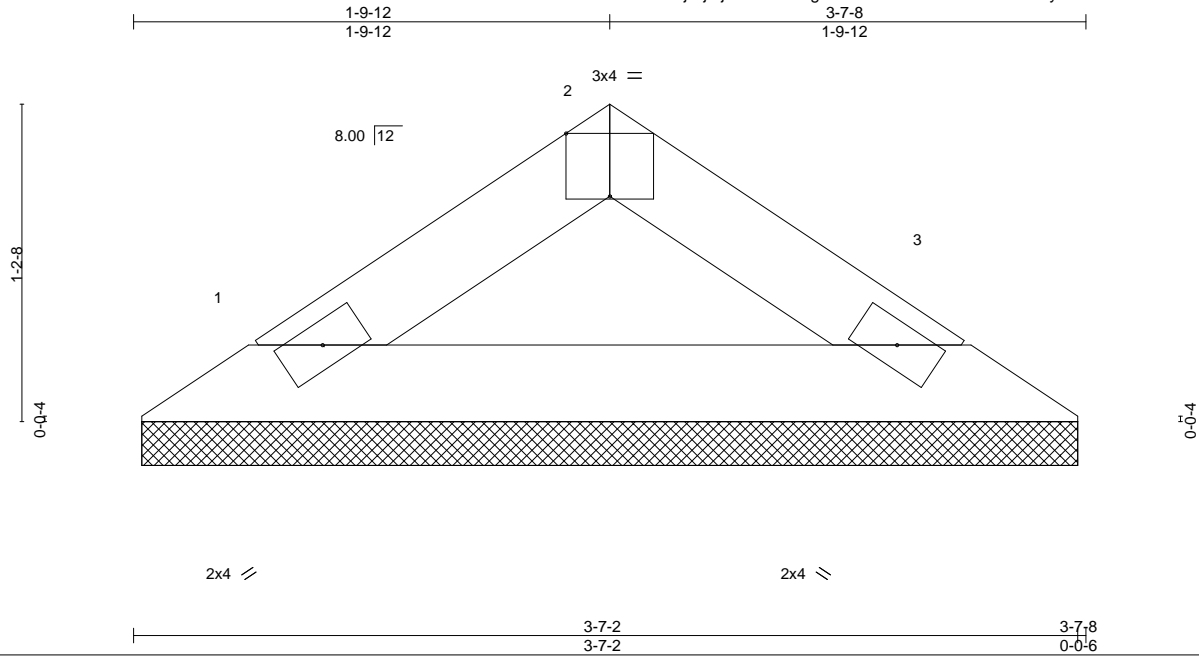
818 Soundside Road  
Edenton, NC 27932

Job P19-03028	Truss V06	Truss Type Valley	Qty 1	Ply 1	2019-012 JOB# SCOTT Job Reference (optional)	E12870906
------------------	--------------	----------------------	----------	----------	---	-----------

Longleaf Truss Company,

West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Tue Apr 2 09:51:06 2019 Page 1  
ID:hY1sjNijl5josHeWlHreg3zV2Nr-VN2xZMDJ1EFOJaUIYyVw7WovVT2KcTRoEAoQIDzUo6Z



Scale = 1:8.8

Plate Offsets (X,Y)-- [2:0-2-0,Edge]											
<b>LOADING</b> (psf)		<b>SPACING-</b>	2-0-0	<b>CSI.</b>		<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999	
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a	
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P							
BCDL	10.0										Weight: 10 lb FT = 20%

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

**BRACING-**  
TOP CHORD Sheathed or 3-7-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 1=84/3-6-12, 3=84/3-6-12  
Max Horz 1=17(LC 11)  
Max Grav 1=106(LC 2), 3=106(LC 2)

**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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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.
  - 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 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.
  - 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.



April 3, 2019

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

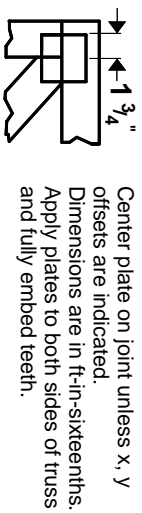
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



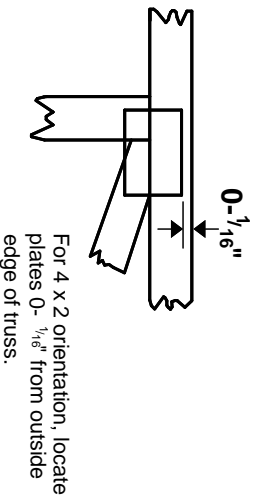
818 Soundside Road  
Edenton, NC 27932

# Symbols

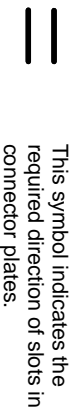
## PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

## PLATE SIZE

4 X 4

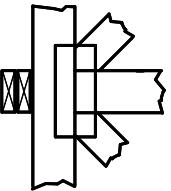
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

## BEARING

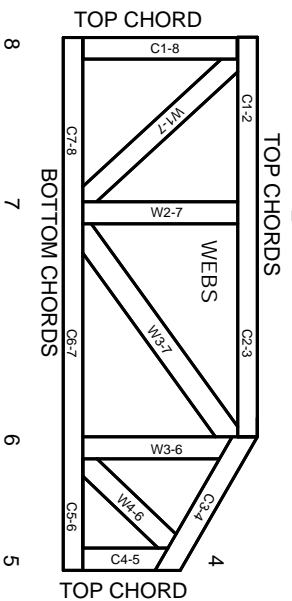


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

## PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988  
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

© 2012 MITTEK® All Rights Reserved



MITek Engineering Reference Sheet: Mill-7473 rev. 10/03/2015



# General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.