ROOF TRUSS LAYOUT

1/4" = 1'-0"

Dimensions

- 48' 0"
- 32' 0"
- 16' 0"
- 5' 0"
- 14' 0"
- 16' 0"
- 58' 0"
- 56' 4"
- 58' 0"
- 6' 4"
- 16' 8"
- 21' 1"
- 1' 8"
- 4' 0"
- 10' 0"
- 10' 0"
- 12' 0"
- 12' 0"
- 48' 0"
- 4'-8-15/16"

Truss Labels

SFBO8, T01GE, SFBO11, T15, T16, SFBO17, T02GE, T06, T08, T10, S01, T14, T17(2), T07(4), T09(4), T11(3), T13(7), PB07, PB04(14), PB05(7), PB06, SFBO3, V07, V06, V05, V04, V03, V02, V01, T04, T03, PB01(3), PB01(5), Undesignd, SFBO4, SFBO16, BBO2, T02(4), T05, BBO1, PB03, T01(5), SFBO13, SFBO8, T01SGE, SFBO14

Title Block

LONGLEAF TRUSS CO.

4476 Hwy. 21 W
West End, NC 27376
(910) 673-4711

Client: J. E. WOMBLE AND SONS
Project: LOT 2
Model:
Lot #:
Subdivision:
Order #: P20-07029
Designer:
Date: / /

Notes

Floor Area: 0 SF
Floor Plywood: 0

Roof Area: 3018.42 SF
Roof Plywood: 90 sheets
Roof Shingles: 38 Squares

Job	Truss	Truss Type	Qty	**Ply**	LOT 2
P20-07029	**G01**	**COMMON GIRDER**	**1**	**3**	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:09:41 2020 Page 1
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-SIALYzcWPjEICELdVfub0RcJBe4V3f6KhfWG_gysZWu
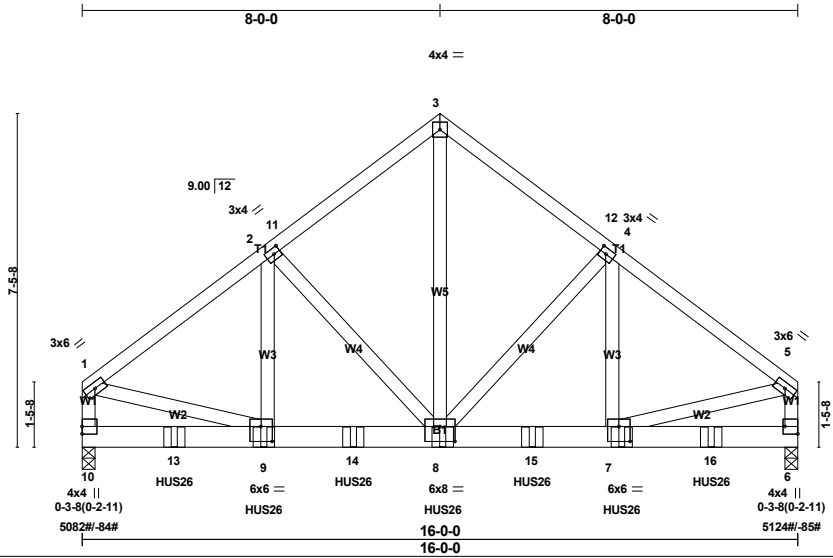
Scale = 1:51.5

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

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.04	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.07	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 356 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-3-8 (min. 0-2-11), 6=0-3-8 (min. 0-2-11)
Max Horz 10=-126(LC 10)
Max Uplift10=-84(LC 12), 6=-85(LC 12)
Max Grav 10=5082(LC 5), 6=5124(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-5358/118, 2-3=-4162/146, 3-4=-4162/146, 4-5=-5356/118,
1-10=-4410/92, 5-6=-4407/92
BOT CHORD 9-10=-112/411, 8-9=-50/4242, 7-8=-50/4241, 6-7=-15/335
WEBS 3-8=-120/4741, 4-8=-1389/79, 4-7=-33/1609, 2-8=-1390/79, 2-9=-32/1611,
1-9=-37/4078, 5-7=-36/4074

JOINT STRESS INDEX
1 = -nan(ind), 2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind), 9 = -nan(ind) and 10 = -nan(ind)

NOTES-
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S)
section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise
indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=14ft; B=61ft; L=51ft;
eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15
Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
6) Unbalanced snow loads have been considered for this design.
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 84 lb uplift at joint 10 and
85 lb uplift at joint 6.

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	G01	COMMON GIRDER	1	**3**	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:09:42 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-wUkjlJd9A0M9qOwq3MPqZf9Ux1Qko6MUwJFpW6ysZWt

NOTES-

11) 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.

12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 14-0-12 to connect truss(es) T13 (1 ply 2x4 SP) to front face of bottom chord.

13) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
        Vert: 1-3=-41, 3-5=-41, 6-10=-20
    Concentrated Loads (lb)
        Vert: 8=-1205(F) 7=-1205(F) 9=-1205(F) 13=-1205(F) 14=-1205(F) 15=-1205(F) 16=-1205(F)

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	G01	COMMON GIRDER	1	**3**	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:09:42 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-wUkjlJd9A0M9qOwq3MPqZf9Ux1Qko6MUwJFpW6ysZWt

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	PB01	Piggyback	8	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.
Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:09:42 2020 Page 1
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-wUkjlJd9A0M9qOwq3MPqZf9YM1VEoG0UwJFpW6ysZWt

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	0.01	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 30 lb	FT = 20%

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

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

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

REACTIONS.   (size) 2=7-2-5 (min. 0-1-8), 4=7-2-5 (min. 0-1-8), 6=7-2-5 (min. 0-1-8)
Max Horz 2=-68(LC 10)
Max Uplift2=-38(LC 12), 4=-38(LC 12)
Max Grav2=188(LC 2), 4=188(LC 2), 6=246(LC 2)

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

JOINT STRESS INDEX
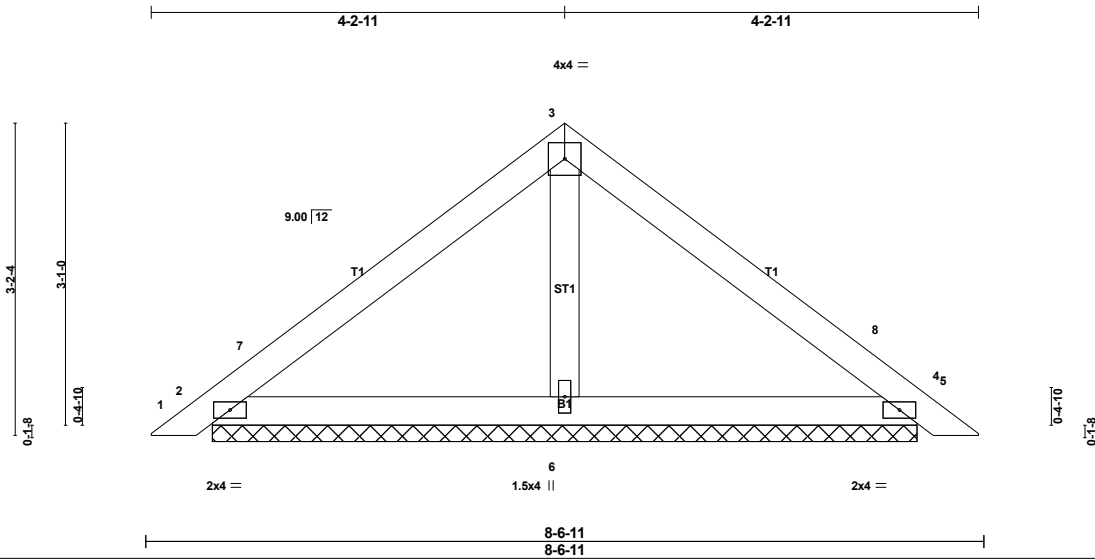   2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind) and 6 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=22ft; B=61ft; L=51ft;
   eave=3ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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=10.4 psf (Lum DOL=1.15
   Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 2.00 times flat roof load of 10.4 psf on
   overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
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 38 lb uplift at joint 2 and
    38 lb uplift at joint 4.
11) 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.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult
    qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	PB02	Piggyback	1	**2**	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:09:43 2020 Page 1
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-Pgl5zfdnxKU0SYV0c4w35siliRsDXjad8z?N2YysZWs

4-2-11   **4-2-11**

Scale = 1:23.5

9.00 [12

3-2-4
3-1-0
0-4-10
0-1-8

T1   ST1   T1

7   8

2   1   B1   4   5

2x4 =   1.5x4 || 2x4 =

6

8-6-11
8-6-11

4x4 =

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 60 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.   (size) 2=7-2-5 (min. 0-1-8), 4=7-2-5 (min. 0-1-8), 6=7-2-5 (min. 0-1-8)
            Max Horz 2=-68(LC 10)
            Max Uplift2=-38(LC 12), 4=-38(LC 12)
            Max Grav 2=188(LC 2), 4=188(LC 2), 6=246(LC 2)

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

JOINT STRESS INDEX
     2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind) and 6 = -nan(ind)

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S)
   section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise
   indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=22ft; B=61ft; L=51ft;
   eave=10ft; Cat. II; Exp B; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15
   Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
6) Unbalanced snow loads have been considered for this design.
7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on
   overhangs non-concurrent with other live loads.
8) Gable requires continuous bottom chord bearing.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall
    by 2-0-0 wide will fit between the bottom chord and any other members.
11) All bearings are assumed to be User Defined crushing capacity of 425 psi.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 2 and
    38 lb uplift at joint 4.
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.
14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult
    qualified building designer.

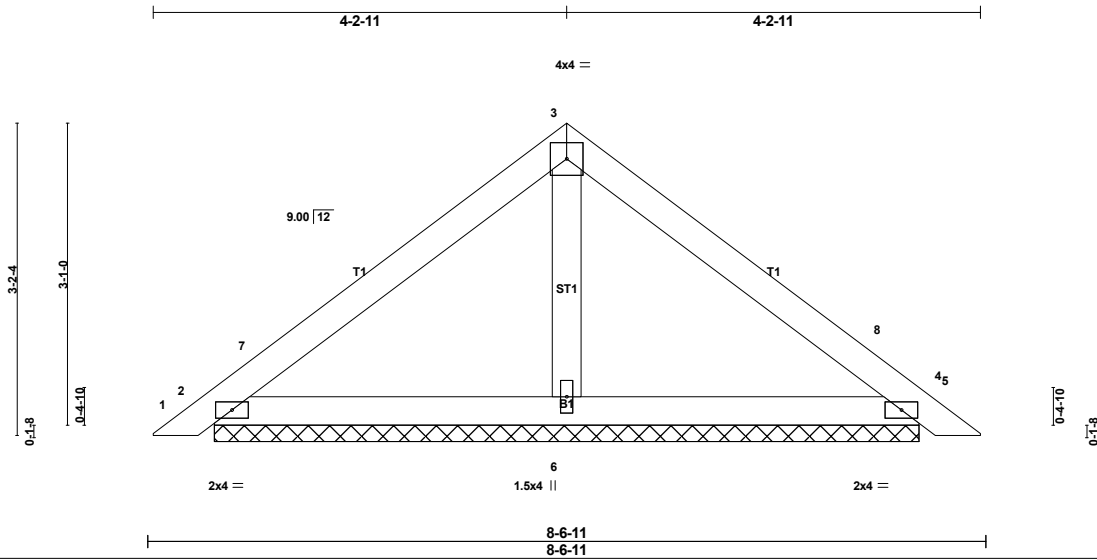| Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	PB02	Piggyback	1	**2**	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:09:43 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-PgI5zfdnxKU0SYV0c4w35siliRsDXjad8z?N2YysZWs

LOAD CASE(S) Standard

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	PB03	Piggyback	1	1	
					Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:09:44 2020 Page 1
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-ttsUA_ePiecs3i4CAnRle4EurrBiGAWnNdkwb_ysZWr

Scale = 1:23.5

9.00 [12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	0.01	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 30 lb	FT = 20%

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

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

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

REACTIONS.   (size) 2=7-2-5 (min. 0-1-8), 4=7-2-5 (min. 0-1-8), 6=7-2-5 (min. 0-1-8)
    Max Horz 2=-68(LC 10)
    Max Uplift2=-38(LC 12), 4=-38(LC 12)
    Max Grav 2=188(LC 2), 4=188(LC 2), 6=246(LC 2)

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

JOINT STRESS INDEX
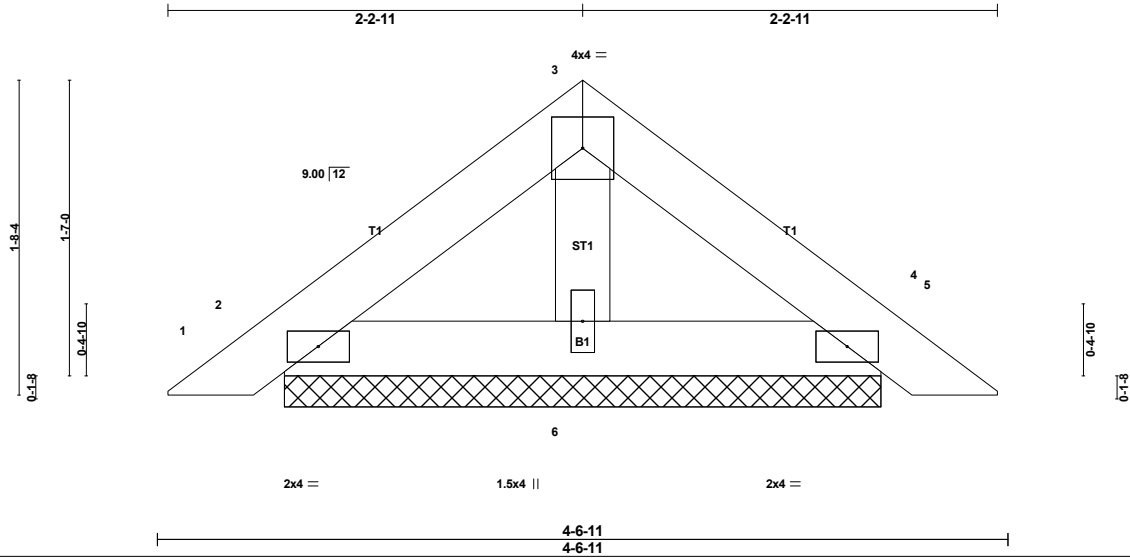   2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind) and 6 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=22ft; B=61ft; L=51ft;
   eave=0ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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=10.4 psf (Lum DOL=1.15
   Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 2.00 times flat roof load of 10.4 psf on
   overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
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 38 lb uplift at joint 2 and
    38 lb uplift at joint 4.
11) 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.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult
    qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	PB04	Piggyback	14	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:09:44 2020 Page 1
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-ttsUA_ePiecs3i4CAnRle4ExcrCvGAtnNdkwb_ysZWr

2-2-11   2-2-11

4x4

9.00 ⟌12

Scale = 1:12.3

4-6-11
4-6-11

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 14 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 4-6-11 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS.   (size) 2=3-2-5 (min. 0-1-8), 4=3-2-5 (min. 0-1-8), 6=3-2-5 (min. 0-1-8)
Max Horz 2=34(LC 11)
Max Uplift2=-25(LC 12), 4=-25(LC 12)
Max Grav 2=99(LC 2), 4=99(LC 2), 6=106(LC 2)

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

JOINT STRESS INDEX
2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind) and 6 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=21ft; B=61ft; L=51ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
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 25 lb uplift at joint 2 and 25 lb uplift at joint 4.
11) 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.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
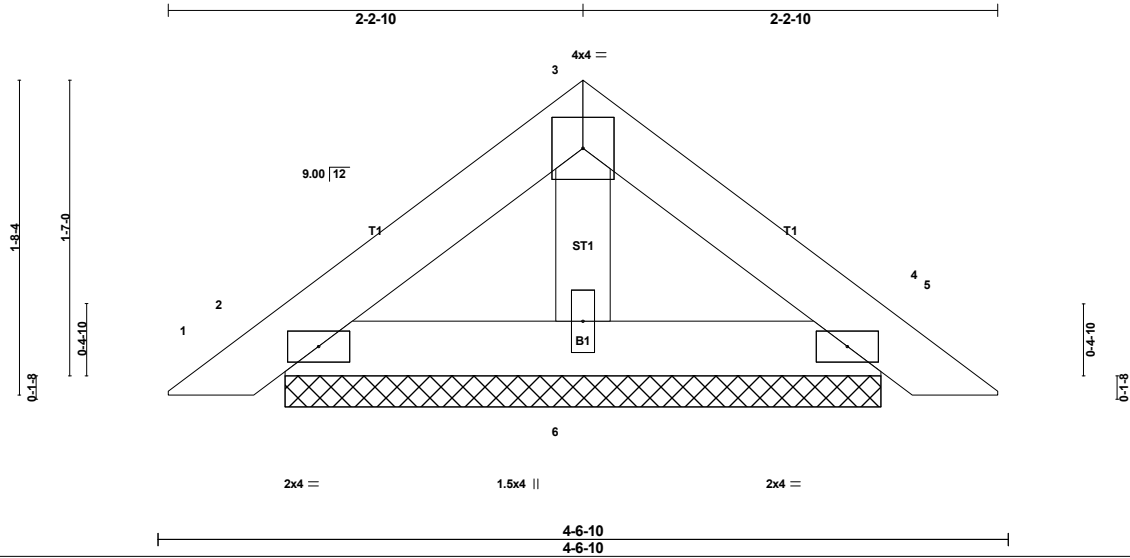
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	PB05	Piggyback	7	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:09:45 2020 Page 1
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-L3PsOKf1TxljhsfOkVyXAHn6MFY8?d6wcHUT7RysZWq

2-2-10   **2-2-10**

Scale = 1:12.3

4-6-10
4-6-10

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 14 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 4-6-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (size) 2=3-2-5 (min. 0-1-8), 4=3-2-5 (min. 0-1-8), 6=3-2-5 (min. 0-1-8)
Max Horz 2=-34(LC 10)
Max Uplift2=-25(LC 12), 4=-25(LC 12)
Max Grav 2=99(LC 2), 4=99(LC 2), 6=106(LC 2)

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

JOINT STRESS INDEX
2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind) and 6 = -nan(ind)
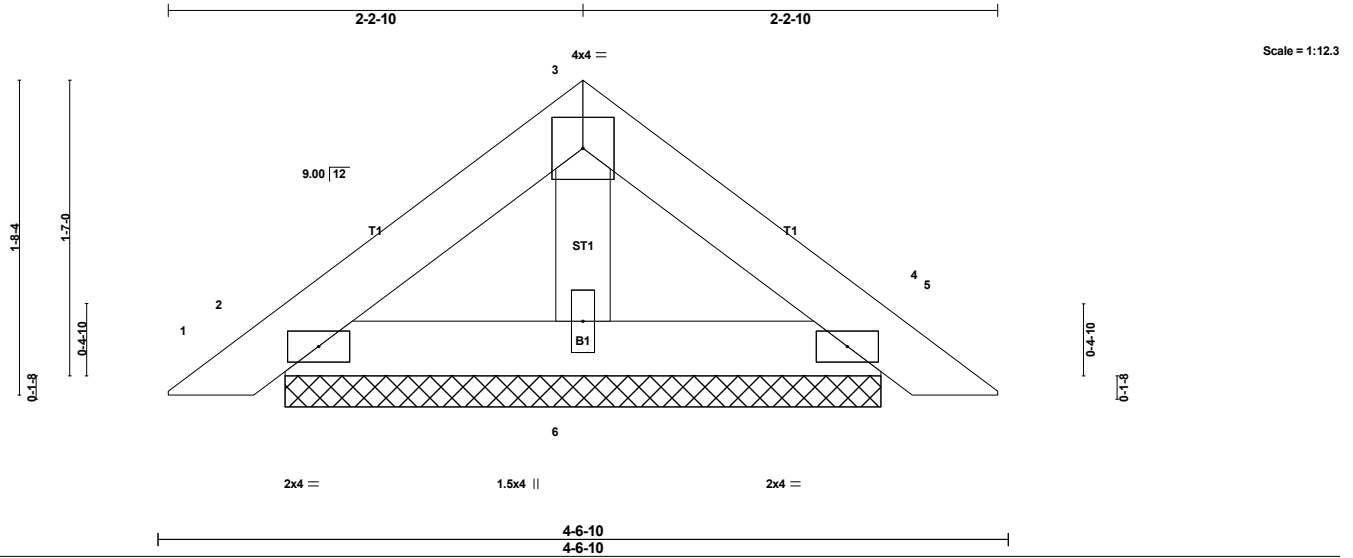
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=21ft; B=61ft; L=51ft; eave=11ft; Cat. II; Exp B; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
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 25 lb uplift at joint 2 and 25 lb uplift at joint 4.
11) 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.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	PB06	Piggyback	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:09:46 2020 Page 1
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-pFzEbggfEFtaJ?EblCUmjVKH6fuNk3M3rxD1ftysZWp

2-2-10   **2-2-10**

Scale = 1:12.3

4x4 =

9.00 12

1-8-4   1-7-0   0-4-10   0-1-8

T1   T1

ST1

B1

1   2   3   4   5   6

0-4-10   0-1-8

2x4 =   1.5x4 || 2x4 =

4-6-10
4-6-10

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 14 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 4-6-10 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS.   (size) 2=3-2-5 (min. 0-1-8), 4=3-2-5 (min. 0-1-8), 6=3-2-5 (min. 0-1-8)
Max Horz 2=-34(LC 10)
Max Uplift2=-25(LC 12), 4=-25(LC 12)
Max Grav 2=99(LC 2), 4=99(LC 2), 6=106(LC 2)

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

JOINT STRESS INDEX
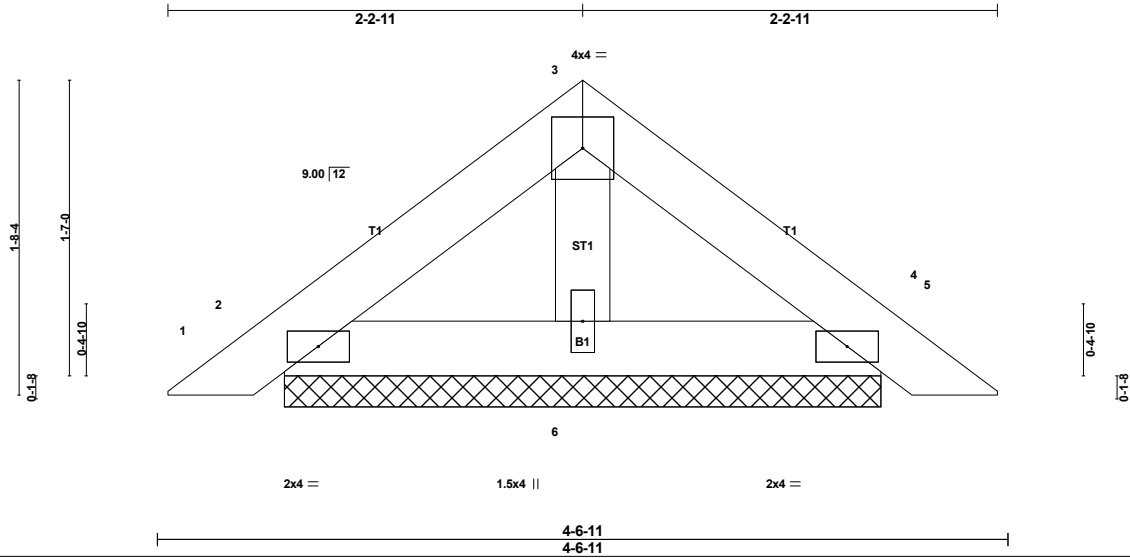   2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind) and 6 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=21ft; B=61ft; L=51ft;
   eave=1ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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=10.4 psf (Lum DOL=1.15
   Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 2.00 times flat roof load of 10.4 psf on
   overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
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 25 lb uplift at joint 2 and
    25 lb uplift at joint 4.
11) 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.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult
    qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	PB07	Piggyback	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:09:46 2020 Page 1
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-pFzEbggfEFtaJ?EbICUmjVKH6fuNk3M3rxD1ftysZWp

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 14 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 4-6-11 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS.   (size) 2=3-2-5 (min. 0-1-8), 4=3-2-5 (min. 0-1-8), 6=3-2-5 (min. 0-1-8)
Max Horz 2=34(LC 11)
Max Uplift2=-25(LC 12), 4=-25(LC 12)
Max Grav 2=99(LC 2), 4=99(LC 2), 6=106(LC 2)

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

JOINT STRESS INDEX
2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind) and 6 = -nan(ind)
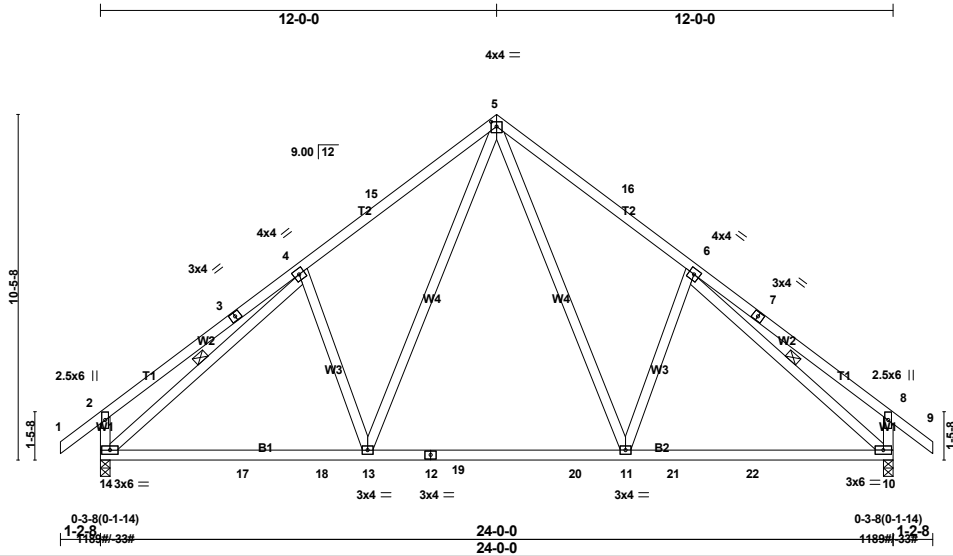
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=21ft; B=61ft; L=51ft;
   eave=0ft; Cat. II; Exp B; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15
   Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 2.00 times flat roof load of 10.4 psf on
   overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
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 25 lb uplift at joint 2 and
    25 lb uplift at joint 4.
11) 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.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult
    qualified building designer.

LOAD CASE(S) Standard

Scale = 1:69.8

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

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.11	13-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.20	10-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 160 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 5-6-10 oc purlins, except end verticals.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   1 Row at midpt   4-14, 6-10

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

REACTIONS.   (size) 14=0-3-8 (min. 0-1-14), 10=0-3-8 (min. 0-1-14)
Max Horz 14=211(LC 11)
Max Uplift14=-33(LC 12), 10=-33(LC 12)
Max Grav 14=1189(LC 24), 10=1189(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-4=-350/115, 4-5=-1171/136, 5-6=-1171/136, 6-8=-350/115,
             2-14=-406/122, 8-10=-406/122
BOT CHORD   13-14=0/1019, 11-13=0/724, 10-11=0/910
WEBS   5-11=-42/608, 5-13=-42/608, 4-14=-1033/0, 6-10=-1032/0

JOINT STRESS INDEX
2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind), 10 = -nan(ind), 11 = -nan(ind), 12 = -nan(ind), 13 = -nan(ind) and 14 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=61ft; L=51ft;
   eave=3ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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=10.4 psf (Lum DOL=1.15
   Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 2.00 times flat roof load of 10.4 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 33 lb uplift at joint 14 and
   33 lb uplift at joint 10.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2
    and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	**T01GE**	**Common Structural Gable**	**1**	**1**	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:09:49 2020 Page 1
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-DqfNDiiYWAF9ATzAzK1TL7ymUsvUxOpWXvShGCysZWm
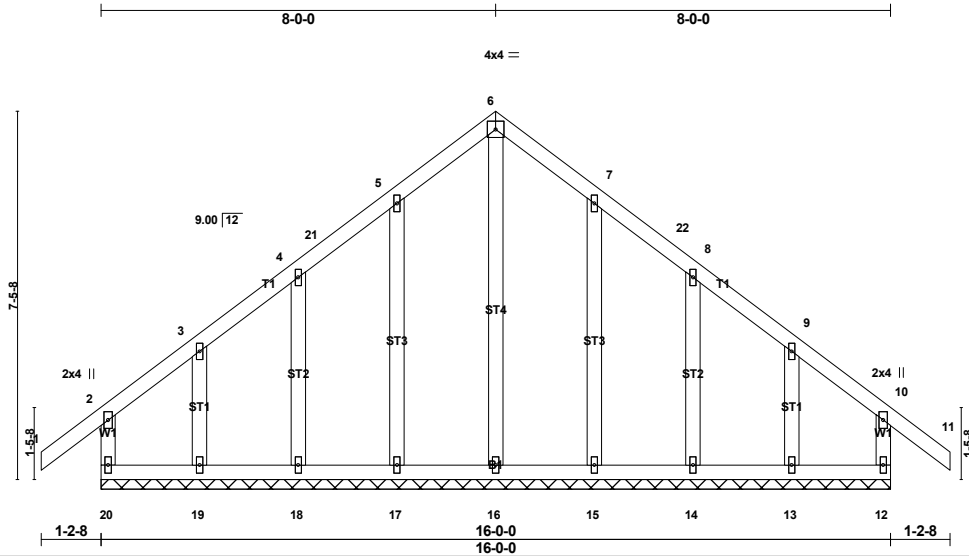
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.01	11	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	-0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							Weight: 107 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

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

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

REACTIONS.   All bearings 16-0-0.
  (lb) - Max Horz 20=-148(LC 10)
       Max Uplift All uplift 100 lb or less at joint(s) 20, 12, 17, 18, 19, 15, 14, 13
       Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 15, 14, 13

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

JOINT STRESS INDEX
  2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind), 9 = -nan(ind), 10 = -nan(ind), 12 = -nan(ind), 13 =
  -nan(ind), 14 = -nan(ind), 15 = -nan(ind), 16 = -nan(ind), 17 = -nan(ind), 18 = -nan(ind), 19 = -nan(ind) and 20 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=13ft; B=61ft; L=51ft;
   eave=1ft; Cat. II; Exp B; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see
   Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15
   Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on
   overhangs non-concurrent with other live loads.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * 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.
13) All bearings are assumed to be User Defined crushing capacity of 425 psi.
14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20,
   12, 17, 18, 19, 15, 14, 13.
15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2
   and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T01SGE	Common Structural Gable	1	1	
					Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:09:50 2020 Page 1
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-h0DlR2jAHUN0ndXMX2YitLUtyG9hgkVfmZCEoeysZWI
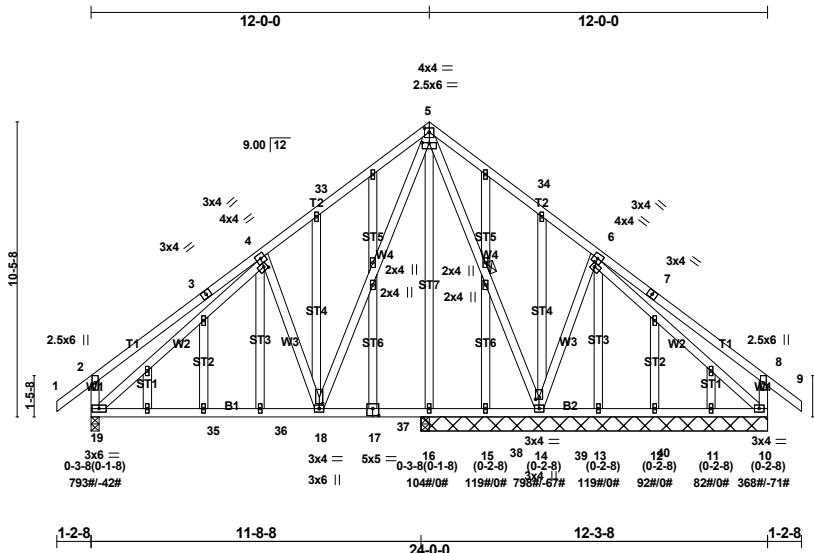
Scale = 1:81.7

Plate Offsets (X,Y)-- [4:0-1-8,0-1-8], [5:0-3-0,0-0-4], [5:0-2-0,0-1-12], [6:0-1-8,0-1-8], [14:0-0-13,0-1-8], [17:0-2-8,0-3-0], [18:0-2-2,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.13	18-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.22	18-19	>631	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 247 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

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.
WEBS 1 Row at midpt 5-14

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

REACTIONS. All bearings 12-3-8 except (jt=length) 19=0-3-8, 16=0-3-8, 16=0-3-8.
(lb) - Max Horz 19=211(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 19, 10, 14
Max Grav All reactions 250 lb or less at joint(s) 15, 13, 12, 11, 16, 16 except 19=793(LC 24), 10=368(LC 2), 14=798(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-336/114, 4-5=-618/149, 2-19=-395/121, 8-10=-315/137
BOT CHORD 18-19=-11/601, 16-18=-24/275, 15-16=-24/275, 14-15=-24/275
WEBS 5-14=-573/0, 6-14=-357/147, 5-18=-48/626, 4-18=-305/144, 4-19=-465/0

JOINT STRESS INDEX
2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind), 10 = -nan(ind), 11 = -nan(ind), 12 = -nan(ind), 13 = -nan(ind), 14 = -nan(ind), 14 = -nan(ind), 15 = -nan(ind), 16 = -nan(ind), 17 = -nan(ind), 18 = -nan(ind), 18 = -nan(ind), 19 = -nan(ind), 20 = -nan(ind), 20 = -nan(ind), 21 = -nan(ind), 22 = -nan(ind), 23 = -nan(ind), 24 = -nan(ind), 25 = -nan(ind), 26 = -nan(ind), 27 = -nan(ind), 28 = -nan(ind), 29 = -nan(ind), 29 = -nan(ind), 30 = -nan(ind), 31 = -nan(ind) and 32 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=61ft; L=51ft; eave=1ft; Cat. II; Exp B; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T01SGE	Common Structural Gable	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:09:51 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-ADn7eOko2nVtPn6Y4l3xQY12igVwPBko_DxoL4ysZWk

NOTES-

11) All bearings are assumed to be User Defined crushing capacity of 425 psi.

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 10, 14.

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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T01SGE	Common Structural Gable	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:09:51 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-ADn7eOko2nVtPn6Y4l3xQY12igVwPBko_DxoL4ysZWk

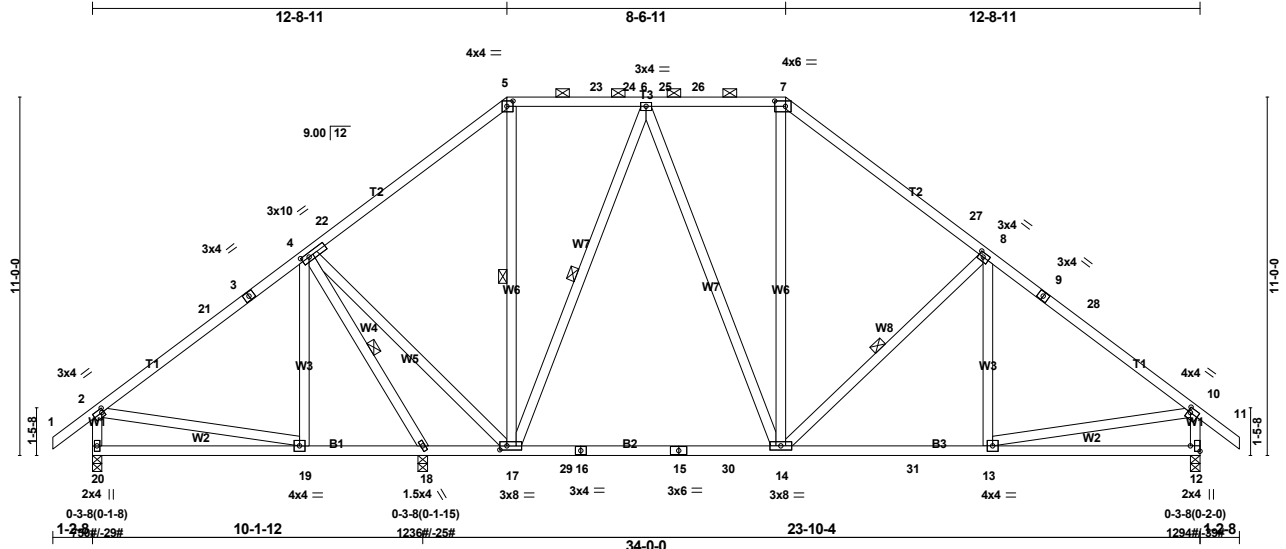| Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T02	Piggyback Base	4	1	Job Reference (optional)

Scale = 1:70.7

Plate Offsets (X,Y)-- [2:0-0-12,0-1-8], [4:0-2-14,0-1-8], [5:0-2-4,0-2-0], [7:0-4-0,0-2-0], [8:0-1-12,0-1-8], [10:0-1-0,0-1-12], [12:Edge,0-3-8], [17:0-2-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.17	14-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.28	14-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 254 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 5-2-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 17-18.
WEBS 1 Row at midpt 4-18, 5-17, 6-17, 8-14

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

REACTIONS. (size) 20=0-3-8 (min. 0-1-8), 18=0-3-8 (min. 0-1-15), 12=0-3-8 (min. 0-2-0)
Max Horz 20=226(LC 11)
Max Uplift 20=-29(LC 12), 18=-25(LC 12), 12=-39(LC 12)
Max Grav 20=750(LC 24), 18=1236(LC 43), 12=1294(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-685/38, 4-5=-703/110, 5-6=-467/122, 6-7=-791/128, 7-8=-1064/117, 8-10=-1371/52, 2-20=-643/64, 10-12=-1188/73
BOT CHORD 19-20=-176/317, 18-19=0/600, 17-18=-345/98, 14-17=0/693, 13-14=0/1010
WEBS 4-18=-1416/30, 4-17=0/984, 6-17=-564/32, 6-14=0/414, 7-14=0/317, 8-14=-486/100, 2-19=0/418, 10-13=0/895

JOINT STRESS INDEX
2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind), 9 = -nan(ind), 10 = -nan(ind), 12 = -nan(ind), 13 = -nan(ind), 14 = -nan(ind), 15 = -nan(ind), 16 = -nan(ind), 17 = -nan(ind), 18 = -nan(ind), 19 = -nan(ind) and 20 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=17ft; B=61ft; L=51ft; eave=8ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
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 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T02	Piggyback Base	4	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:09:53 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-6but33l2aPlbe4GxCA6PVz6NDT9Dt8r5SXQvPzysZWi

NOTES-

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 100 lb uplift at joint(s) 20, 18, 12.

11) 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.

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

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T02	Piggyback Base	4	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:09:53 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-6but33l2aPlbe4GxCA6PVz6NDT9Dt8r5SXQvPzysZWi

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	**T02GE**	**Common Supported Gable**	**1**	**1**	
					Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:09:54 2020 Page 1
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-aoSFHPmgLitSGEr7mtde2BfdOtckcgqFgBASxPysZWh
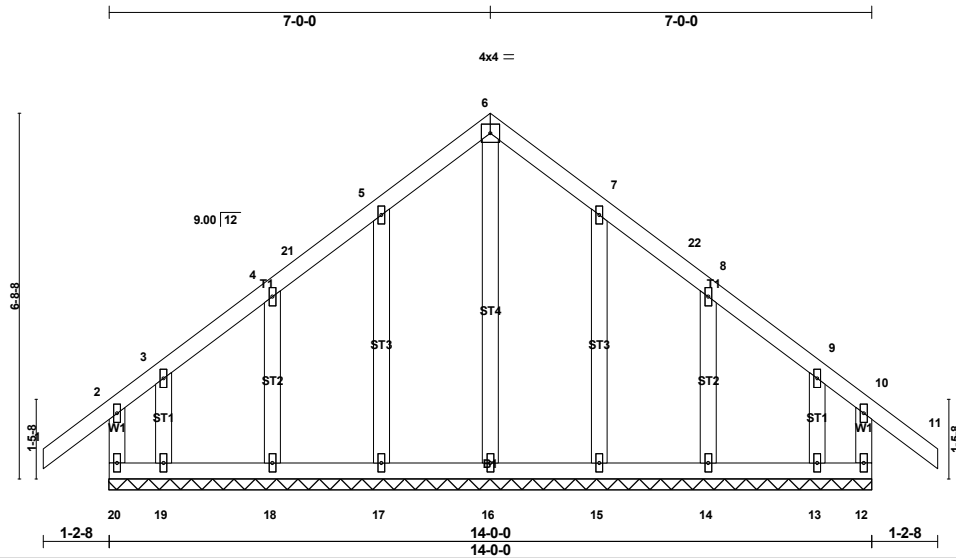
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.01	11	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.01	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							Weight: 92 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

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

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

REACTIONS.   All bearings 14-0-0.
        (lb) - Max Horz 20=-133(LC 10)
                Max Uplift All uplift 100 lb or less at joint(s) 20, 12, 17, 18, 19, 15, 14, 13
                Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 15, 14, 13

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

JOINT STRESS INDEX
    2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind), 9 = -nan(ind), 10 = -nan(ind), 12 = -nan(ind), 13 = -nan(ind), 14 = -nan(ind), 15 = -nan(ind), 16 = -nan(ind), 17 = -nan(ind), 18 = -nan(ind), 19 = -nan(ind) and 20 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=13ft; B=61ft; L=51ft;
   eave=1ft; Cat. II; Exp B; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see
   Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15
   Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on
   overhangs non-concurrent with other live loads.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * 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.
13) All bearings are assumed to be User Defined crushing capacity of 425 psi.
14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20,
    12, 17, 18, 19, 15, 14, 13.
15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2
    and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T03	Piggyback Base	1	1	
					Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:09:56 2020 Page 1
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-WAa0i5nxtK7AVY?WtIf67cktHhAw4VaY8VfZ0IysZWf
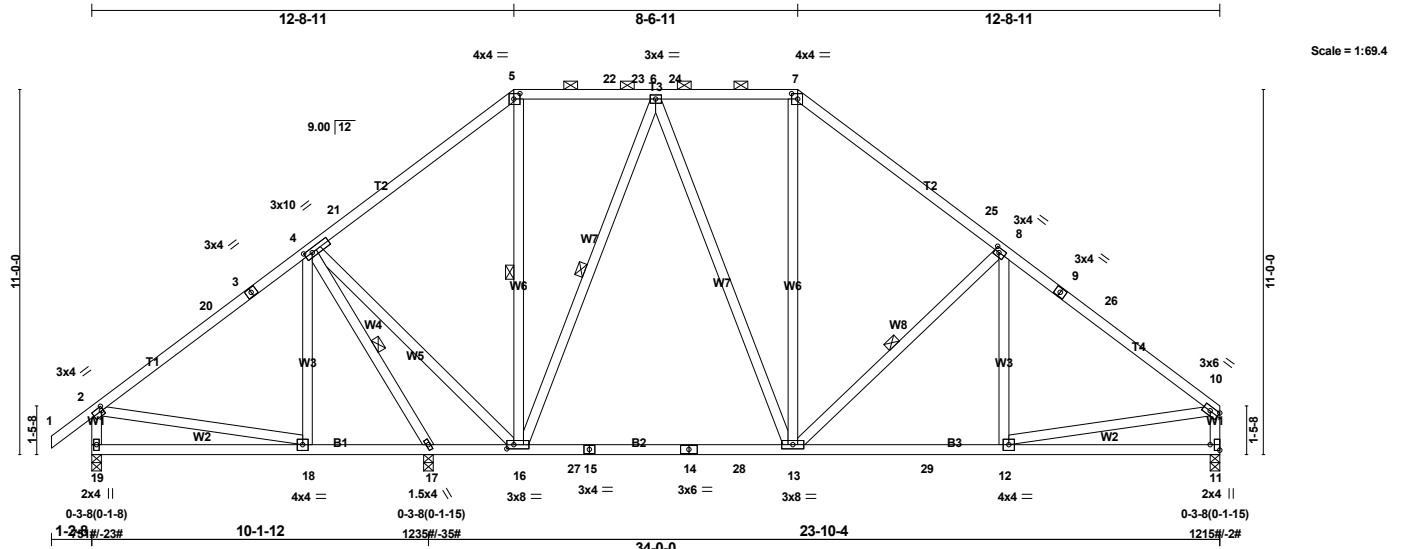
Plate Offsets (X,Y)-- [2:0-0-12,0-1-8], [4:0-2-14,0-1-8], [5:0-2-4,0-2-0], [7:0-2-4,0-2-0], [8:0-1-12,0-1-8], [10:Edge,0-1-8], [11:Edge,0-3-8], [16:0-2-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.17	13-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.28	13-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 251 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 5-0-5 oc purlins, except end verticals, and
            2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing,   Except:
            6-0-0 oc bracing: 16-17.
WEBS   1 Row at midpt   4-17, 5-16, 6-16, 8-13

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

REACTIONS.   (size) 19=0-3-8 (min. 0-1-8), 17=0-3-8 (min. 0-1-15), 11=0-3-8 (min. 0-1-15)
Max Horz 19=218(LC 11)
Max Uplift19=-23(LC 12), 17=-35(LC 12), 11=-2(LC 12)
Max Grav 19=751(LC 24), 17=1235(LC 43), 11=1215(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-4=-683/30, 4-5=-702/104, 5-6=-466/117, 6-7=-791/125, 7-8=-1068/114,
             8-10=-1373/46, 2-19=-644/58, 10-11=-1110/37
BOT CHORD   18-19=-168/308, 17-18=-15/592, 16-17=-343/78, 13-16=0/685,
             12-13=0/1022
WEBS   4-17=-1415/41, 4-16=0/989, 6-16=-566/35, 6-13=0/416, 7-13=0/319,
             8-13=-494/102, 2-18=0/417, 10-12=0/916

JOINT STRESS INDEX
2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind), 9 = -nan(ind), 10 = -nan(ind), 11 = -nan(ind), 12 =
-nan(ind), 13 = -nan(ind), 14 = -nan(ind), 15 = -nan(ind), 16 = -nan(ind), 17 = -nan(ind), 18 = -nan(ind) and 19 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=17ft; B=61ft; L=51ft;
   eave=10ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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=15.4 psf (Lum DOL=1.15
   Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0. Min. flat roof snow load
   governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC
   1608.3.4.
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 2.00 times flat roof load of 10.4 psf on
   overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T03	Piggyback Base	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:09:56 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-WAa0i5nxtK7AVY?Wtlf67cktHhAw4VaY8VfZ0IysZWf

NOTES-

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, with BCDL = 10.0psf.

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 100 lb uplift at joint(s) 19, 17, 11.

11) 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.

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

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T03	Piggyback Base	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Scale = 1:60.5

Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [3:0-1-12,0-1-8], [6:0-3-8,0-4-12]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.04	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.08	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 166 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 6-0-0 oc purlins, except end verticals.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   1 Row at midpt   4-5

REACTIONS.   (size) 5=0-3-8 (min. 0-3-6), 7=0-3-8 (min. 0-2-6)
                Max Horz 7=217(LC 12)
                Max Uplift5=-152(LC 12)
                Max Grav 5=4272(LC 5), 7=3055(LC 3)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2753/0, 2-7=-2212/4
BOT CHORD   6-7=-212/437, 5-6=-97/2156
WEBS   3-6=-22/3513, 3-5=-3000/134, 2-6=0/1844

JOINT STRESS INDEX
    2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind) and 7 = -nan(ind)

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S)
   section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise
   indicated.
3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=14ft; B=61ft; L=51ft;
   eave=11ft; Cat. II; Exp B; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15
   Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on
   overhangs non-concurrent with other live loads.
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 100 lb uplift at joint(s)
    except (jt=lb) 5=152.

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T04	Monopitch Girder	1	**2**	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:09:57 2020 Page 2
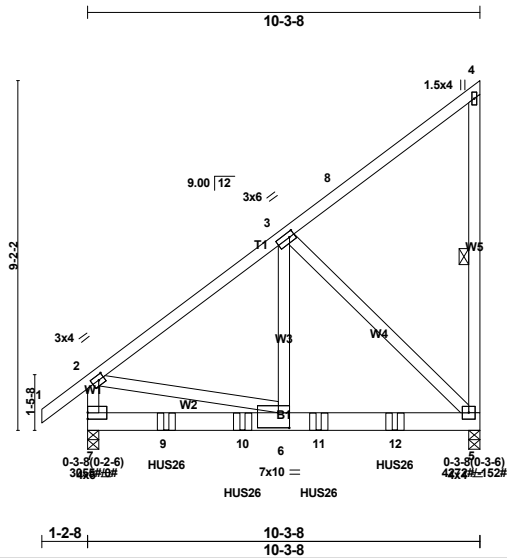ID:tcvVaC6QQtNBDXb5xYEux9yt82w-_N8OvRoZedF07iaiR0ALfpH_y4R3ptxhN9O6YkysZWe

NOTES-

11) 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.

12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 8-0-12 to connect truss(es) T09 (1 ply 2x4 SP) to back face of bottom chord.

13) Fill all nail holes where hanger is in contact with lumber.

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1332 lb down and 22 lb up at 10-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)
   Vert: 1-2=-41, 2-4=-41, 5-7=-20

Concentrated Loads (lb)
   Vert: 5=-1213 9=-1203(B) 10=-1203(B) 11=-1203(B) 12=-1203(B)

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T04	Monopitch Girder	1	**2**	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:09:57 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-_N8OvRoZedF07iaiR0ALfpH_y4R3ptxhN9O6YkysZWe

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T05	Piggyback Base Structural Gable	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:00 2020 Page 1
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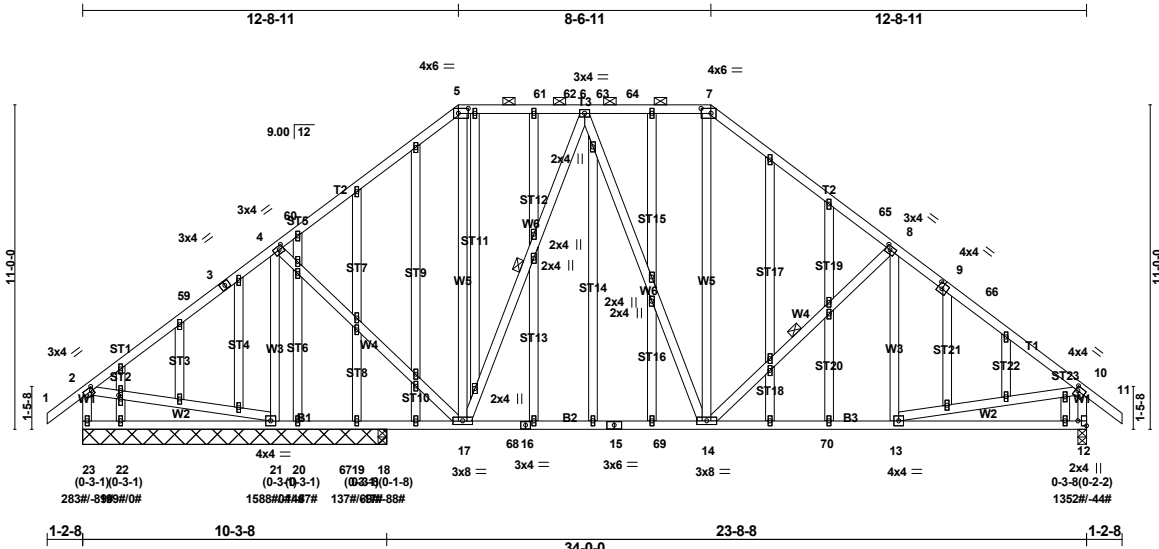
Plate Offsets (X,Y)-- [2:0-0-12,0-1-8], [4:0-1-12,0-1-8], [5:0-4-0,0-2-0], [7:0-4-0,0-2-0], [8:0-1-12,0-1-8], [9:0-1-12,0-2-4], [9:0-0-0,0-1-12], [10:0-1-0,0-1-12], [12:Edge,0-3-8], [45:0-1-9,0-0-12], [54:0-2-3,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.17	14-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.28	14-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 385 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

BRACING-
TOP CHORD Sheathed or 5-0-8 oc purlins, except end verticals, and
2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt   6-17, 8-14

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

REACTIONS. All bearings 10-3-8 except (jt=length) 12=0-3-8, 18=0-3-8.
(lb) - Max Horz 23=-226(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 23, 21, 12, 19, 20, 18
Max Grav All reactions 250 lb or less at joint(s) 19, 22, 18 except 23=283(LC 50), 21=1588(LC
43), 12=1352(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-844/123, 5-6=-588/132, 6-7=-859/134, 7-8=-1149/125, 8-10=-1448/59,
2-23=-297/71, 10-12=-1246/79
BOT CHORD 22-23=-205/277, 21-22=-205/277, 14-17=0/795, 13-14=0/1071
WEBS 4-21=-1363/67, 4-17=0/796, 6-17=-510/26, 6-14=0/353, 7-14=0/365,
8-14=-476/99, 10-13=0/962

JOINT STRESS INDEX
2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind), 9 = -nan(ind), 9 = -nan(ind), 10 = -nan(ind), 12 =
-nan(ind), 13 = -nan(ind), 14 = -nan(ind), 15 = -nan(ind), 16 = -nan(ind), 17 = -nan(ind), 19 = -nan(ind), 20 = -nan(ind), 21 = -nan(ind), 22 = -nan(ind), 23
= -nan(ind), 24 = -nan(ind), 25 = -nan(ind), 26 = -nan(ind), 26 = -nan(ind), 27 = -nan(ind), 28 = -nan(ind), 29 = -nan(ind), 29 = -nan(ind), 30 = -nan(ind),
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= -nan(ind), 47 = -nan(ind), 48 = -nan(ind), 49 = -nan(ind), 49 = -nan(ind), 50 = -nan(ind), 51 = -nan(ind), 52 = -nan(ind), 52 = -nan(ind), 53 = -nan(ind),
54 = -nan(ind), 55 = -nan(ind), 56 = -nan(ind), 57 = -nan(ind) and 58 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=17ft; B=61ft; L=51ft;
eave=1ft; Cat. II; Exp B; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see
Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

NOTES-

4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.

5) Unbalanced snow loads have been considered for this design.

6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.

7) Provide adequate drainage to prevent water ponding.

8) All plates are 1.5x4 MT20 unless otherwise indicated.

9) Gable studs spaced at 2-0-0 oc.

10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

11) * 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.

12) All bearings are assumed to be User Defined crushing capacity of 425 psi.

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 21, 12, 19, 20, 18.

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

15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
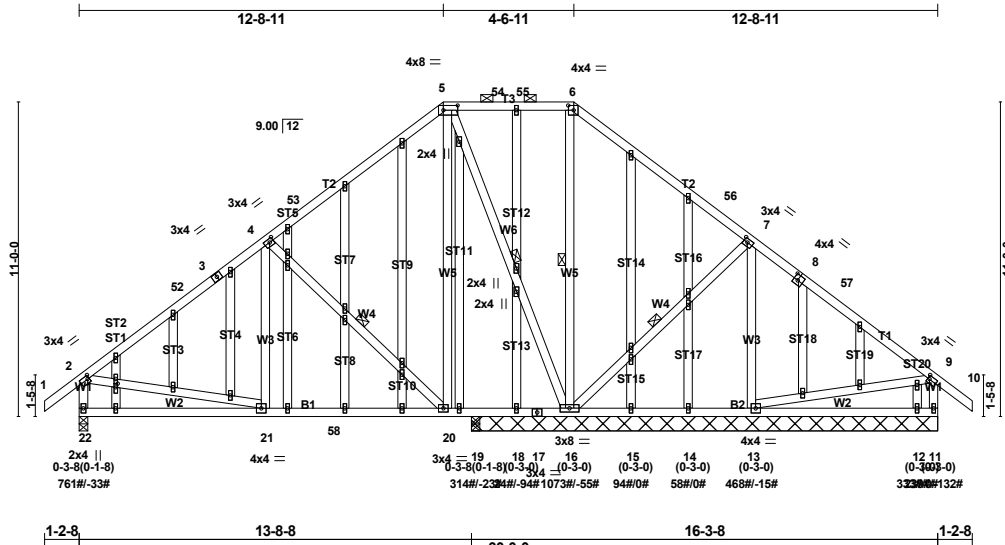
LOAD CASE(S) Standard

Scale = 1:80.5

Plate Offsets (X,Y)-- [2:0-0-12,0-1-8], [4:0-1-12,0-1-8], [5:0-6-0,0-2-0], [6:0-2-4,0-2-0], [7:0-1-12,0-1-8], [8:0-1-12,0-2-4], [8:0-0-0,0-1-12], [9:0-0-12,0-1-8], [40:0-1-9,0-0-12], [48:0-2-3,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.05	20-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.09	20-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 327 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

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16,14-15,13-14.
WEBS 1 Row at midpt 4-20, 5-16, 6-16, 7-16

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

REACTIONS. All bearings 16-3-8 except (jt=length) 22=0-3-8, 19=0-3-8.
(lb) - Max Horz 22=-226(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 22, 16, 13, 18, 19 except 11=-132(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 11, 18, 15, 14 except 22=761(LC 24), 16=1073(LC 43), 13=468(LC 45), 12=333(LC 7), 19=314(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-693/42, 4-5=-313/111, 2-22=-667/66, 9-11=-307/70
BOT CHORD 21-22=-181/307, 20-21=-6/644
WEBS 4-21=0/277, 4-20=-609/96, 5-20=0/422, 5-16=-656/0, 6-16=-344/7, 7-13=-297/55, 2-21=0/444

JOINT STRESS INDEX
2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind), 8 = -nan(ind), 9 = -nan(ind), 11 = -nan(ind), 12 = -nan(ind), 13 = -nan(ind), 14 = -nan(ind), 15 = -nan(ind), 16 = -nan(ind), 17 = -nan(ind), 18 = -nan(ind), 20 = -nan(ind), 21 = -nan(ind), 22 = -nan(ind), 23 = -nan(ind), 24 = -nan(ind), 24 = -nan(ind), 25 = -nan(ind), 26 = -nan(ind), 27 = -nan(ind), 27 = -nan(ind), 28 = -nan(ind), 29 = -nan(ind), 30 = -nan(ind), 30 = -nan(ind), 31 = -nan(ind), 32 = -nan(ind), 33 = -nan(ind), 33 = -nan(ind), 34 = -nan(ind), 35 = -nan(ind), 36 = -nan(ind), 37 = -nan(ind), 38 = -nan(ind), 39 = -nan(ind), 40 = -nan(ind), 40 = -nan(ind), 41 = -nan(ind), 42 = -nan(ind), 43 = -nan(ind), 44 = -nan(ind), 44 = -nan(ind), 45 = -nan(ind), 46 = -nan(ind), 46 = -nan(ind), 47 = -nan(ind), 48 = -nan(ind), 49 = -nan(ind), 50 = -nan(ind) and 51 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=17ft; B=61ft; L=51ft; eave=1ft; Cat. II; Exp B; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T06	Piggyback Base Structural Gable	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:03 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-pXVfAUtKDT0Ard1snGHlv4X4ZVcYCg0al4rQmOysZWY

NOTES-

4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.

5) Unbalanced snow loads have been considered for this design.

6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.

7) Provide adequate drainage to prevent water ponding.

8) All plates are 1.5x4 MT20 unless otherwise indicated.

9) Gable studs spaced at 2-0-0 oc.

10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

11) * 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.

12) All bearings are assumed to be User Defined crushing capacity of 425 psi.

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 16, 13, 18, 19 except (jt=lb) 11=132.

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

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

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T06	Piggyback Base Structural Gable	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:03 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-pXVfAUtKDT0Ard1snGHlv4X4ZVcYCg0al4rQmOysZWY

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	**T07**	**Piggyback Base**	**4**	**1**	
					Job Reference (optional)

Longleaf Truss Company, West End, N.C.   Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:05 2020 Page 1
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-lvdQaAual5Gu5wBEvhJD_VcQ1JHlgYzsCOKXqHysZWW
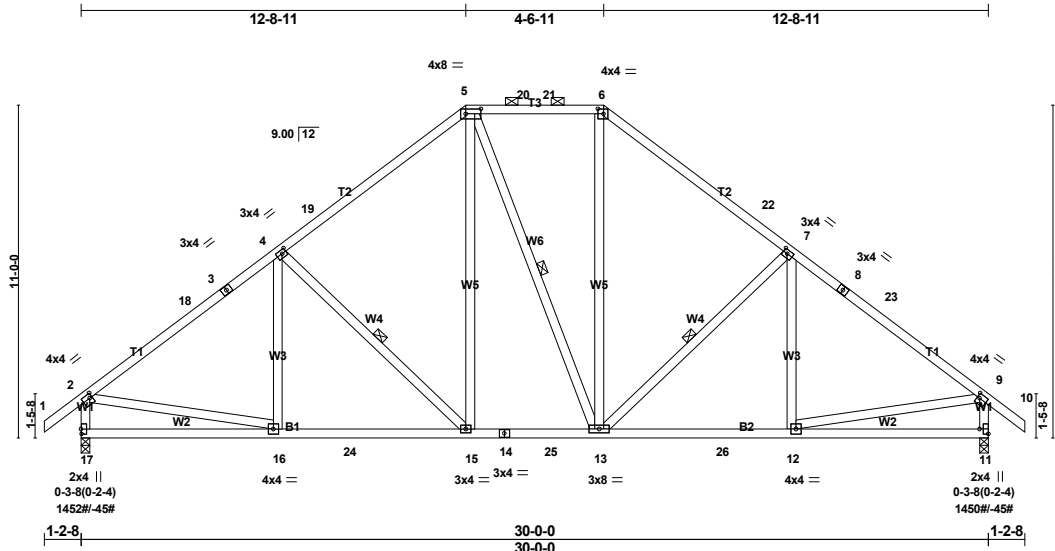
Scale = 1:76.2

Plate Offsets (X,Y)-- [2:0-1-0,0-1-12], [4:0-1-12,0-1-8], [5:0-6-0,0-2-0], [6:0-2-4,0-2-0], [7:0-1-12,0-1-8], [9:0-1-0,0-1-12], [11:Edge,0-3-8], [17:0-2-0,0-0-4]

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.07	15-16	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.13	15-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.03	11	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 215 lb	FT = 20%

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

BRACING-
TOP CHORD   Sheathed or 4-9-6 oc purlins, except end verticals, and
            2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   1 Row at midpt   4-15, 5-13, 7-13

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

REACTIONS.   (size) 17=0-3-8 (min. 0-2-4), 11=0-3-8 (min. 0-2-4)
              Max Horz 17=-226(LC 10)
              Max Uplift17=-45(LC 12), 11=-45(LC 12)
              Max Grav 17=1452(LC 43), 11=1450(LC 45)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-4=-1638/58, 4-5=-1339/130, 5-6=-985/138, 6-7=-1337/130, 7-9=-1635/58,
            2-17=-1353/78, 9-11=-1350/78
BOT CHORD   16-17=-173/324, 15-16=0/1399, 13-15=0/1059, 12-13=0/1252
WEBS   4-15=-479/93, 5-15=-4/539, 6-13=-4/506, 7-13=-477/93, 2-16=0/1168,
            9-12=0/1167

JOINT STRESS INDEX
   2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind), 9 = -nan(ind), 11 = -nan(ind), 12 = -nan(ind), 13 =
   -nan(ind), 14 = -nan(ind), 15 = -nan(ind), 16 = -nan(ind) and 17 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=17ft; B=61ft; L=51ft;
   eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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=15.4 psf (Lum DOL=1.15
   Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load
   governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC
   1608.3.4.
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 2.00 times flat roof load of 10.4 psf on
   overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
9) All bearings are assumed to be User Defined crushing capacity of 425 psi.

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T07	Piggyback Base	4	1	
					Job Reference (optional)

NOTES-

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 11.

11) 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.

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

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T08	Piggyback Base	1	1	Job Reference (optional)

Scale = 1:76.2

Plate Offsets (X,Y)-- [2:0-1-0,0-1-12], [4:0-1-12,0-1-8], [5:0-6-0,0-2-0], [6:0-2-4,0-2-0], [7:0-1-12,0-1-8], [9:Edge,0-1-8], [10:0-2-0,0-1-4], [16:0-2-0,0-0-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.07	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.13	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 213 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 4-7-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-14, 5-12, 7-12

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

REACTIONS. (size) 16=0-3-8 (min. 0-2-4), 10=0-3-8 (min. 0-2-3)
Max Horz 16=218(LC 11)
Max Uplift16=-46(LC 12), 10=-11(LC 12)
Max Grav 16=1453(LC 43), 10=1392(LC 45)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1640/59, 4-5=-1341/130, 5-6=-986/138, 6-7=-1340/131, 7-9=-1637/56,
2-16=-1354/79, 9-10=-1293/44
BOT CHORD 15-16=-165/314, 14-15=0/1390, 12-14=0/1050, 11-12=0/1248
WEBS 4-14=-478/94, 5-14=-4/539, 6-12=-6/510, 7-12=-485/95, 2-15=0/1169,
9-11=0/1178

JOINT STRESS INDEX
2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind), 9 = -nan(ind), 10 = -nan(ind), 11 = -nan(ind), 12 = -nan(ind), 13 = -nan(ind), 14 = -nan(ind), 15 = -nan(ind) and 16 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=17ft; B=61ft; L=51ft; eave=10ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
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 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
9) All bearings are assumed to be User Defined crushing capacity of 425 psi.

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T08	Piggyback Base	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:07 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-iIlA?swqHiWcKELd06Mh3whmN6yD8SM9gipev9ysZWU

NOTES-
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10.
11) 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.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T08	Piggyback Base	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:07 2020 Page 2
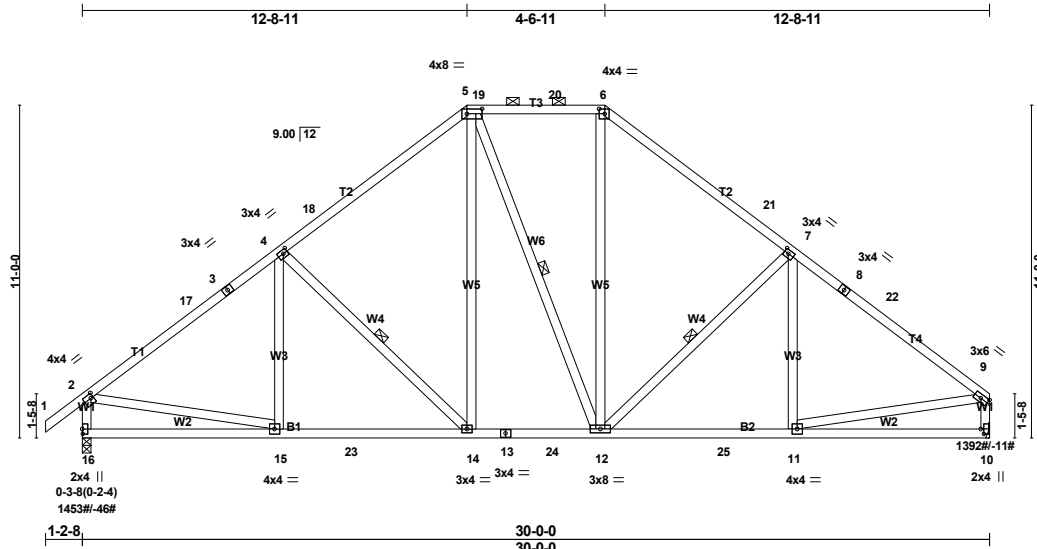ID:tcvVaC6QQtNBDXb5xYEux9yt82w-iIlA?swqHiWcKELd06Mh3whmN6yD8SM9gipev9ysZWU

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T09	Piggyback Base	4	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:08 2020 Page 1
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-AUIYDCxS20eTyOwpaqtwc8Ex7WIStvcJuMZBRbysZWT

Scale = 1:76.2

Plate Offsets (X,Y)-- [2:0-1-0,0-1-12], [4:0-1-12,0-1-8], [5:0-6-0,0-2-0], [6:0-2-4,0-2-0], [7:0-1-12,0-1-8], [9:Edge,0-1-8], [10:0-2-0,0-1-4], [16:0-2-0,0-0-4]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.07	14-15	>999	240		MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.13	14-15	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.03	10	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S								Weight: 213 lb	FT = 20%

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

BRACING-
TOP CHORD   Sheathed or 4-7-15 oc purlins, except end verticals, and
2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   1 Row at midpt   4-14, 5-12, 7-12

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

REACTIONS.   (size) 16=0-3-8 (min. 0-2-4), 10=Mechanical
Max Horz 16=218(LC 11)
Max Uplift16=-46(LC 12), 10=-11(LC 12)
Max Grav 16=1453(LC 43), 10=1392(LC 45)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-4=-1640/59, 4-5=-1341/130, 5-6=-986/138, 6-7=-1340/131, 7-9=-1637/56,
2-16=-1354/79, 9-10=-1293/44
BOT CHORD   15-16=-165/314, 14-15=0/1390, 12-14=0/1050, 11-12=0/1248
WEBS   4-14=-478/94, 5-14=-4/539, 6-12=-6/510, 7-12=-485/95, 2-15=0/1169,
9-11=0/1178

JOINT STRESS INDEX
2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind), 9 = -nan(ind), 10 = -nan(ind), 11 = -nan(ind), 12 =
-nan(ind), 13 = -nan(ind), 14 = -nan(ind), 15 = -nan(ind) and 16 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=17ft; B=61ft; L=51ft;
eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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=15.4 psf (Lum DOL=1.15
Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load
governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC
1608.3.4.
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 2.00 times flat roof load of 10.4 psf on
overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
9) All bearings are assumed to be User Defined crushing capacity of 425 psi.
Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T09	Piggyback Base	4	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:08 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-AUlYDCxS20eTyOwpaqtwc8Ex7WIStvcJuMZBRbysZWT

NOTES-

10) Refer to girder(s) for truss to truss connections.

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10.

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.

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

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T09	Piggyback Base	4	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:08 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-AUlYDCxS20eTyOwpaqtwc8Ex7WIStvcJuMZBRbysZWT

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T10	Piggyback Base	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:10 2020 Page 1
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-6tQJetyjaduABh3CiFvOhZJHcK_wLp6bMg2IVUysZWR

Scale = 1:76.2

Plate Offsets (X,Y)-- [2:0-1-0,0-1-12], [4:0-1-12,0-1-8], [5:0-6-0,0-2-0], [6:0-2-4,0-2-0], [7:0-1-12,0-1-8], [9:Edge,0-1-8], [10:0-2-0,0-1-4], [16:0-2-0,0-0-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.07	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.13	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 213 lb	FT = 20%

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

BRACING-
TOP CHORD   Sheathed or 4-7-15 oc purlins, except end verticals, and
             2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   1 Row at midpt   4-14, 5-12, 7-12

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

REACTIONS.   (size) 16=0-3-8 (min. 0-2-4), 10=0-3-9 (min. 0-2-3)
              Max Horz 16=218(LC 11)
              Max Uplift16=-46(LC 12), 10=-11(LC 12)
              Max Grav 16=1453(LC 43), 10=1392(LC 45)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-4=-1640/59, 4-5=-1341/130, 5-6=-986/138, 6-7=-1340/131, 7-9=-1637/56,
             2-16=-1354/79, 9-10=-1293/44
BOT CHORD   15-16=-165/314, 14-15=0/1390, 12-14=0/1050, 11-12=0/1248
WEBS   4-14=-478/94, 5-14=-4/539, 6-12=-6/510, 7-12=-485/95, 2-15=0/1169,
             9-11=0/1178

JOINT STRESS INDEX
   2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind), 9 = -nan(ind), 10 = -nan(ind), 11 = -nan(ind), 12 =
   -nan(ind), 13 = -nan(ind), 14 = -nan(ind), 15 = -nan(ind) and 16 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=17ft; B=61ft; L=51ft;
   eave=3ft; Cat. II; Exp B; Enclosed; MWFRS (directional). 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=15.4 psf (Lum DOL=1.15
   Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load
   governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC
   1608.3.4.
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 2.00 times flat roof load of 10.4 psf on
   overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
9) All bearings are assumed to be User Defined crushing capacity of 425 psi.

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T10	Piggyback Base	1	1	
					Job Reference (optional)

Longleaf Truss Company, West End, N.C.
        Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:10 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-6tQJetyjaduABh3CiFvOhZJHcK_wLp6bMg2lVUysZWR

NOTES-

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10.

11) 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.

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

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T10	Piggyback Base	1	1	
					Job Reference (optional)

Longleaf Truss Company, West End, N.C.
        Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:10 2020 Page 2
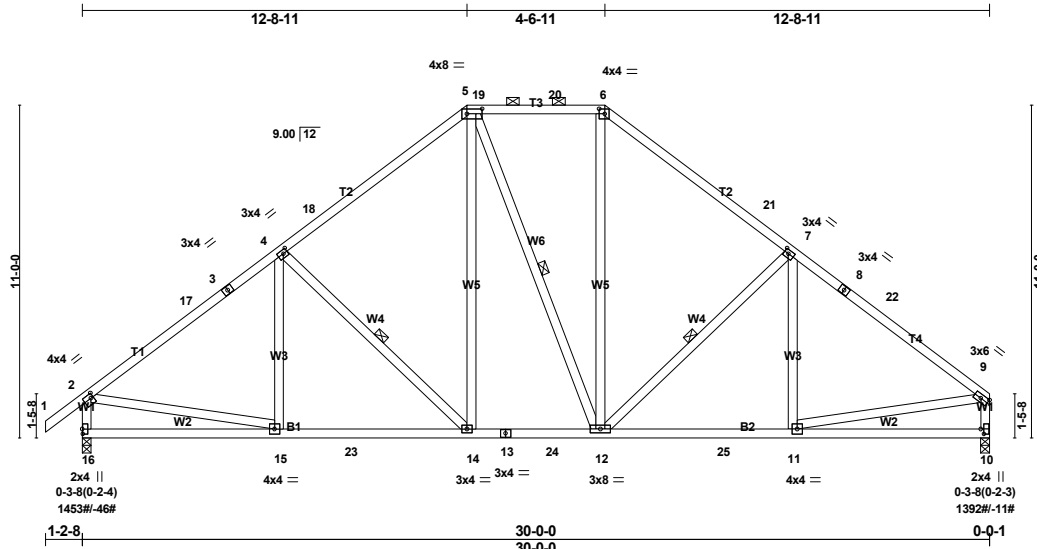ID:tcvVaC6QQtNBDXb5xYEux9yt82w-6tQJetyjaduABh3CiFvOhZJHcK_wLp6bMg2lVUysZWR

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	**T11**	**Piggyback Base**	**3**	**1**	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:12 2020 Page 1
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-2FY32Z_z6E8uQ?Dbpfxsm_Pc67gOpjbup_XPaNysZWP

Scale = 1:76.2

Plate Offsets (X,Y)-- [2:0-1-0,0-1-12], [4:0-1-12,0-1-8], [5:0-6-0,0-2-0], [6:0-2-4,0-2-0], [7:0-1-12,0-1-8], [9:Edge,0-1-8], [10:0-2-0,0-1-4], [16:0-2-0,0-0-4]

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.07	14-15	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.13	14-15	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.03	10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 213 lb	FT = 20%

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

BRACING-
TOP CHORD   Sheathed or 4-7-15 oc purlins, except end verticals, and
            2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   1 Row at midpt   4-14, 5-12, 7-12

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

REACTIONS.   (size) 16=0-3-8 (min. 0-2-4), 10=0-3-8 (min. 0-2-3)
            Max Horz 16=218(LC 11)
            Max Uplift16=-46(LC 12), 10=-11(LC 12)
            Max Grav16=1453(LC 43), 10=1392(LC 45)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-4=-1640/59, 4-5=-1341/130, 5-6=-986/138, 6-7=-1340/131, 7-9=-1637/56,
             2-16=-1354/79, 9-10=-1293/44
BOT CHORD   15-16=-165/314, 14-15=0/1390, 12-14=0/1050, 11-12=0/1248
WEBS   4-14=-478/94, 5-14=-4/539, 6-12=-6/510, 7-12=-485/95, 2-15=0/1169,
             9-11=0/1178

JOINT STRESS INDEX
   2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind), 9 = -nan(ind), 10 = -nan(ind), 11 = -nan(ind), 12 =
   -nan(ind), 13 = -nan(ind), 14 = -nan(ind), 15 = -nan(ind) and 16 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=17ft; B=61ft; L=51ft;
   eave=1ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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=15.4 psf (Lum DOL=1.15
   Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load
   governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC
   1608.3.4.
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 2.00 times flat roof load of 10.4 psf on
   overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
9) All bearings are assumed to be User Defined crushing capacity of 425 psi.

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T11	Piggyback Base	3	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:12 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-2FY32Z_z6E8uQ?Dbpfxsm_Pc67gOpjbup_XPaNysZWP

NOTES-

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10.

11) 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.

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

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T11	Piggyback Base	3	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:12 2020 Page 2
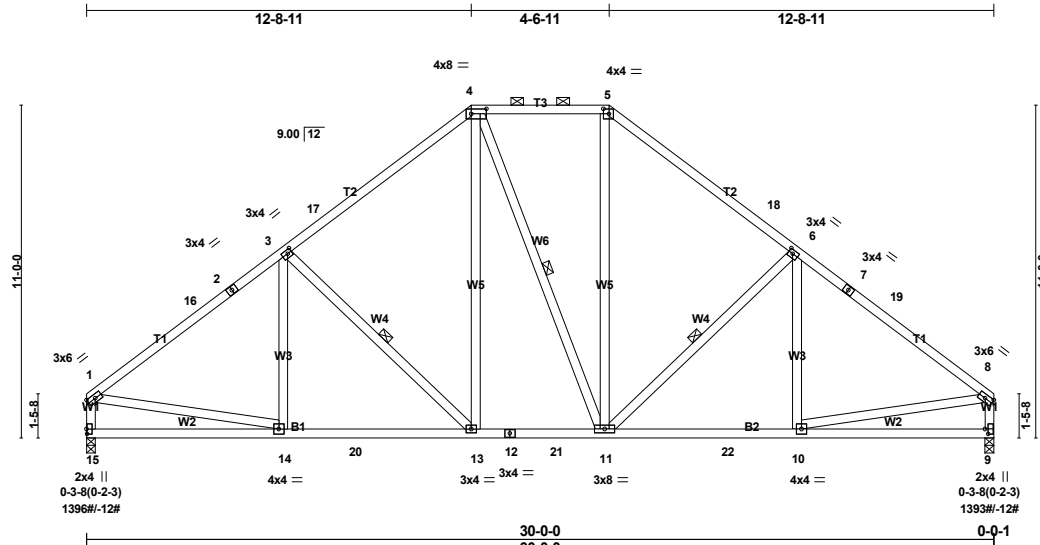ID:tcvVaC6QQtNBDXb5xYEux9yt82w-2FY32Z_z6E8uQ?Dbpfxsm_Pc67gOpjbup_XPaNysZWP

Scale = 1:76.2

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

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.07	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.13	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 210 lb	FT = 20%

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

BRACING-
TOP CHORD   Sheathed or 4-7-13 oc purlins, except end verticals, and
             2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   1 Row at midpt   3-13, 4-11, 6-11

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

REACTIONS.   (size) 15=0-3-8 (min. 0-2-3), 9=0-3-8 (min. 0-2-3)
             Max Horz 15=205(LC 11)
             Max Uplift15=-12(LC 12), 9=-12(LC 12)
             Max Grav15=1396(LC 42), 9=1393(LC 44)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   1-3=-1641/57, 3-4=-1344/132, 4-5=-987/139, 5-6=-1342/132, 6-8=-1638/57,
             1-15=-1296/45, 8-9=-1294/45
BOT CHORD   14-15=-162/288, 13-14=0/1398, 11-13=0/1052, 10-11=0/1249
WEBS   3-13=-486/96, 4-13=-6/544, 5-11=-6/510, 6-11=-485/96, 1-14=0/1180,
             8-10=0/1179

JOINT STRESS INDEX
   1 = -nan(ind), 2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind), 9 = -nan(ind), 10 = -nan(ind), 11 =
   -nan(ind), 12 = -nan(ind), 13 = -nan(ind), 14 = -nan(ind) and 15 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=17ft; B=61ft; L=51ft;
   eave=3ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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=15.4 psf (Lum DOL=1.15
   Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load
   governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC
   1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
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) 15,
   9.

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T12	Piggyback Base	1	1	
					Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:14 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-_egpTF?DesOcgJNzx4_KsPUyaxLrHd3BHl0WfFysZWN

NOTES-

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.

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

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T12	Piggyback Base	1	1	
					Job Reference (optional)

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:14 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-_egpTF?DesOcgJNzx4_KsPUyaxLrHd3BHl0WfFysZWN

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T13	Piggyback Base	7	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.   Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:15 2020 Page 1
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-TqDChb0rO9WTHTy9UoVZOc17KLh404JLVyl3BhysZWM
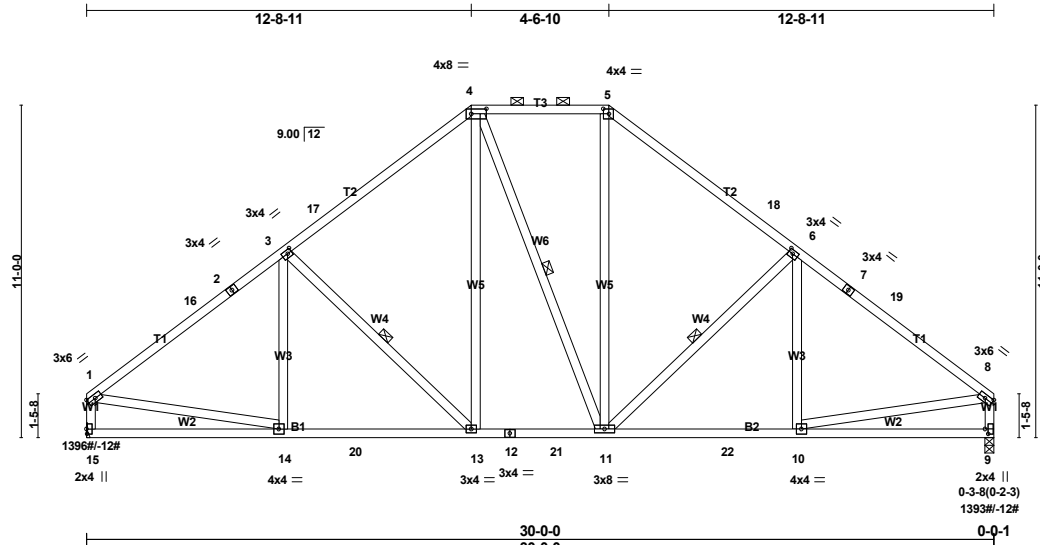
Scale = 1:76.2

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

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.07	13-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.13	13-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.03	9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 210 lb	FT = 20%

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

BRACING-
TOP CHORD   Sheathed or 4-7-13 oc purlins, except end verticals, and
             2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   1 Row at midpt   3-13, 4-11, 6-11

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

REACTIONS.   (size) 15=Mechanical, 9=0-3-8 (min. 0-2-3)
                Max Horz 15=205(LC 11)
                Max Uplift15=-12(LC 12), 9=-12(LC 12)
                Max Grav 15=1396(LC 42), 9=1393(LC 44)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   1-3=-1641/57, 3-4=-1344/132, 4-5=-987/139, 5-6=-1342/132, 6-8=-1639/57,
             1-15=-1296/45, 8-9=-1294/45
BOT CHORD   14-15=-162/288, 13-14=0/1398, 11-13=0/1052, 10-11=0/1249
WEBS   3-13=-486/96, 4-13=-6/544, 5-11=-6/510, 6-11=-485/96, 1-14=0/1180,
             8-10=0/1179

JOINT STRESS INDEX
    1 = -nan(ind), 2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind), 9 = -nan(ind), 10 = -nan(ind), 11 =
    -nan(ind), 12 = -nan(ind), 13 = -nan(ind), 14 = -nan(ind) and 15 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=17ft; B=61ft; L=51ft;
   eave=3ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 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=15.4 psf (Lum DOL=1.15
   Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load
   governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC
   1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
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) Refer to girder(s) for truss to truss connections.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T13	Piggyback Base	7	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C. Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:15 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-TqDChb0rO9WTHTy9UoVZOc17KLh404JLVyl3BhysZWM

NOTES-
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 9.
11) 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.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T13	Piggyback Base	7	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C. Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:15 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-TqDChb0rO9WTHTy9UoVZOc17KLh404JLVyl3BhysZWM

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	**T14**	**Piggyback Base Supported Gable**	**1**	**1**	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:18 2020 Page 1
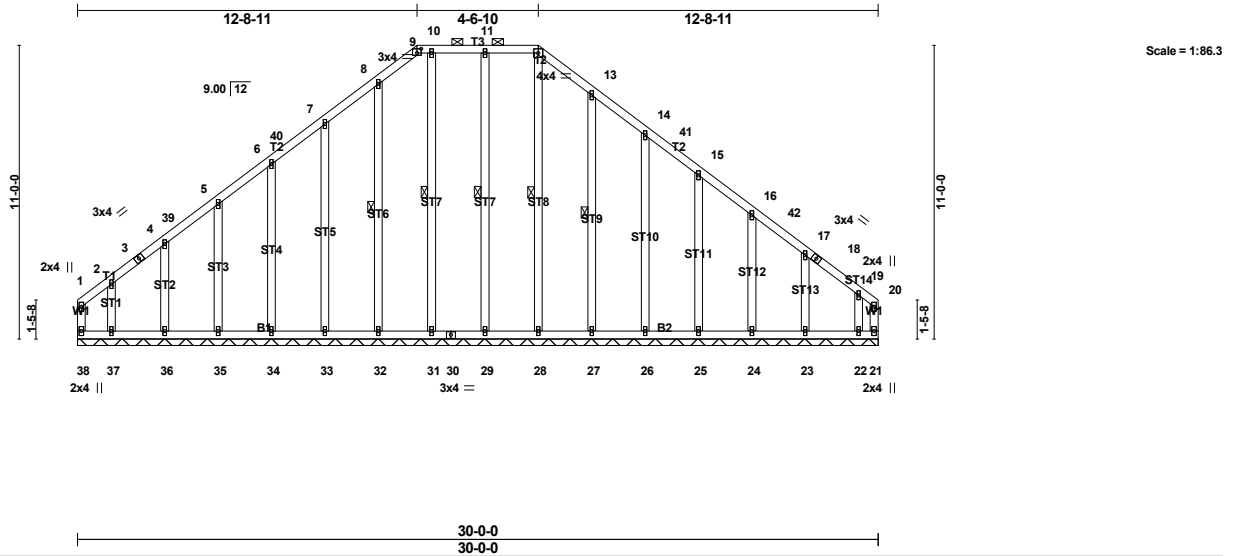ID:tcvVaC6QQtNBDXb5xYEux9yt82w-tPvKJd3kh4v28wgkAw2G0FeisYomDVHnCw_jo0ysZWJ

Scale = 1:86.3

Plate Offsets (X,Y)-- [9:0-2-0,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	-0.00	21	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							Weight: 245 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

BRACING-
TOP CHORD   Sheathed or 6-0-0 oc purlins, except end verticals, and
            2-0-0 oc purlins (6-0-0 max.): 9-12.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   1 Row at midpt   12-28, 11-29, 10-31, 8-32, 13-27

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

REACTIONS.   All bearings 30-0-0.
        (lb) - Max Horz 38=-205(LC 10)
                Max Uplift All uplift 100 lb or less at joint(s) 29, 33, 34, 35, 36, 27, 26, 25, 24, 23 except
                        38=-187(LC 10), 21=-322(LC 11), 37=-108(LC 9), 22=-197(LC 10)
                Max Grav   All reactions 250 lb or less at joint(s) 38, 28, 29, 31, 32, 33, 34, 35, 36, 27, 26,
                        25, 24, 23 except 21=311(LC 10), 37=251(LC 23), 22=342(LC 11)

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

JOINT STRESS INDEX
    1 = -nan(ind), 2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind), 9 = -nan(ind), 10 = -nan(ind), 11 =
    -nan(ind), 12 = -nan(ind), 13 = -nan(ind), 14 = -nan(ind), 15 = -nan(ind), 16 = -nan(ind), 17 = -nan(ind), 18 = -nan(ind), 19 = -nan(ind), 20 = -nan(ind), 21
    = -nan(ind), 22 = -nan(ind), 23 = -nan(ind), 24 = -nan(ind), 25 = -nan(ind), 26 = -nan(ind), 27 = -nan(ind), 28 = -nan(ind), 29 = -nan(ind), 30 = -nan(ind),
    31 = -nan(ind), 32 = -nan(ind), 33 = -nan(ind), 34 = -nan(ind), 35 = -nan(ind), 36 = -nan(ind), 37 = -nan(ind) and 38 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=17ft; B=61ft; L=51ft;
   eave=1ft; Cat. II; Exp B; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see
   Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=15.4 psf (Lum DOL=1.15
   Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load
   governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC
   1608.3.4.
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T14	Piggyback Base Supported Gable	1	1	
					Job Reference (optional)

Longleaf Truss Company, West End, N.C.

NOTES-

12) * 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.

13) All bearings are assumed to be User Defined crushing capacity of 425 psi.

14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 33, 34, 35, 36, 27, 26, 25, 24, 23 except (jt=lb) 38=187, 21=322, 37=108, 22=197.

15) 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.

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

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T14	Piggyback Base Supported Gable	1	1	
					Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T15	Common	1	1	
					Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:19 2020 Page 1
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-LcTiWy3MSO1vm4FxjeZVZSBnhy27y_vwQajHKTysZWl

8-0-0   8-0-0
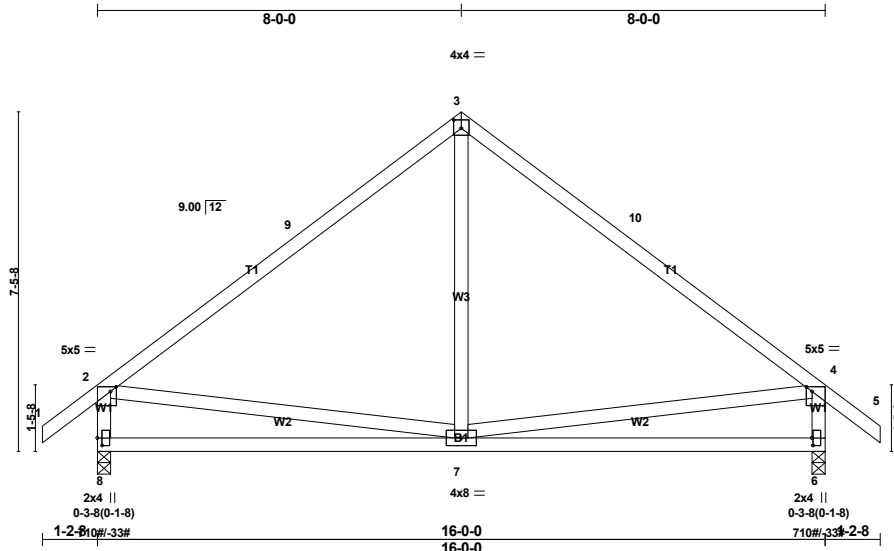
Scale = 1:50.6

Plate Offsets (X,Y)-- [2:0-1-8,0-1-4], [3:0-2-0,0-2-4], [4:0-1-8,0-1-4], [6:0-2-0,0-0-4], [8:0-2-0,0-1-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.07	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.14	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 95 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS   2x4 SP No.3 *Except*
         W1: 2x4 SP No.2

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.

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

REACTIONS.   (size) 8=0-3-8 (min. 0-1-8), 6=0-3-8 (min. 0-1-8)
            Max Horz 8=-148(LC 10)
            Max Uplift8=-33(LC 12), 6=-33(LC 12)
            Max Grav 8=710(LC 2), 6=710(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-627/48, 3-4=-627/48, 2-8=-640/73, 4-6=-640/73
BOT CHORD   7-8=-113/393, 6-7=-53/284
WEBS   3-7=0/308

JOINT STRESS INDEX
   2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind) and 8 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=13ft; B=61ft; L=51ft;
   eave=3ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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=10.4 psf (Lum DOL=1.15
   Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 2.00 times flat roof load of 10.4 psf on
   overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by
   2-0-0 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be User Defined crushing capacity of 425 psi.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2
    and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T16	Common	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.
Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:20 2020 Page 1
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-po15kI4_Di9mOEq7HL5k5gkwcMOOhRC4fETqsvysZWH
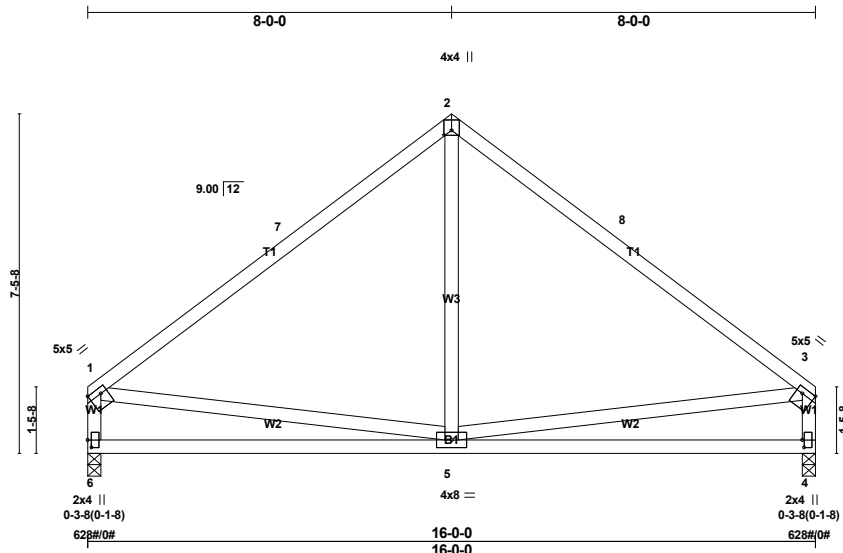
Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-1-4,0-2-0], [3:Edge,0-1-8], [4:0-2-0,0-0-8], [6:0-2-0,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.07	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.14	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 90 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 5-0-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (size) 6=0-3-8 (min. 0-1-8), 4=0-3-8 (min. 0-1-8)
Max Horz 6=-126(LC 10)
Max Grav 6=628(LC 2), 4=628(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-630/44, 2-3=-630/44, 1-6=-559/40, 3-4=-559/40
BOT CHORD 5-6=-95/300
WEBS 2-5=0/300, 1-5=-1/269, 3-5=-3/271

JOINT STRESS INDEX
1 = -nan(ind), 2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind) and 6 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=14ft; B=61ft; L=51ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * 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.
7) All bearings are assumed to be User Defined crushing capacity of 425 psi.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	T17	Common	2	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:21 2020 Page 1
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-H_bTxe5c_?Hc?OPJr2czetG5Ulm7QuiDuuCNOLysZWG
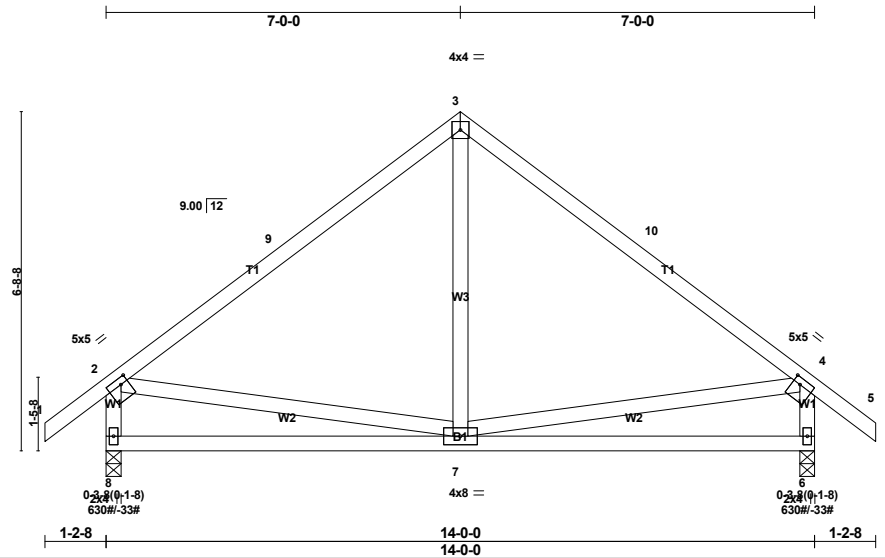
Scale = 1:45.5

Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [4:0-1-12,0-1-8]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.04	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.08	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 84 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 6-0-0 oc purlins, except end verticals.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS.   (size) 8=0-3-8 (min. 0-1-8), 6=0-3-8 (min. 0-1-8)
        Max Horz 8=-133(LC 10)
        Max Uplift8=-33(LC 12), 6=-33(LC 12)
        Max Grav 8=630(LC 2), 6=630(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-534/43, 3-4=-534/43, 2-8=-568/68, 4-6=-568/68
BOT CHORD   7-8=-91/299
WEBS   3-7=0/258

JOINT STRESS INDEX
    2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind) and 8 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=13ft; B=61ft; L=51ft;
   eave=0ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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=10.4 psf (Lum DOL=1.15
   Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 2.00 times flat roof load of 10.4 psf on
   overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by
   2-0-0 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be User Defined crushing capacity of 425 psi.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2
    and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	V01	Roof Special	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:22 2020 Page 1
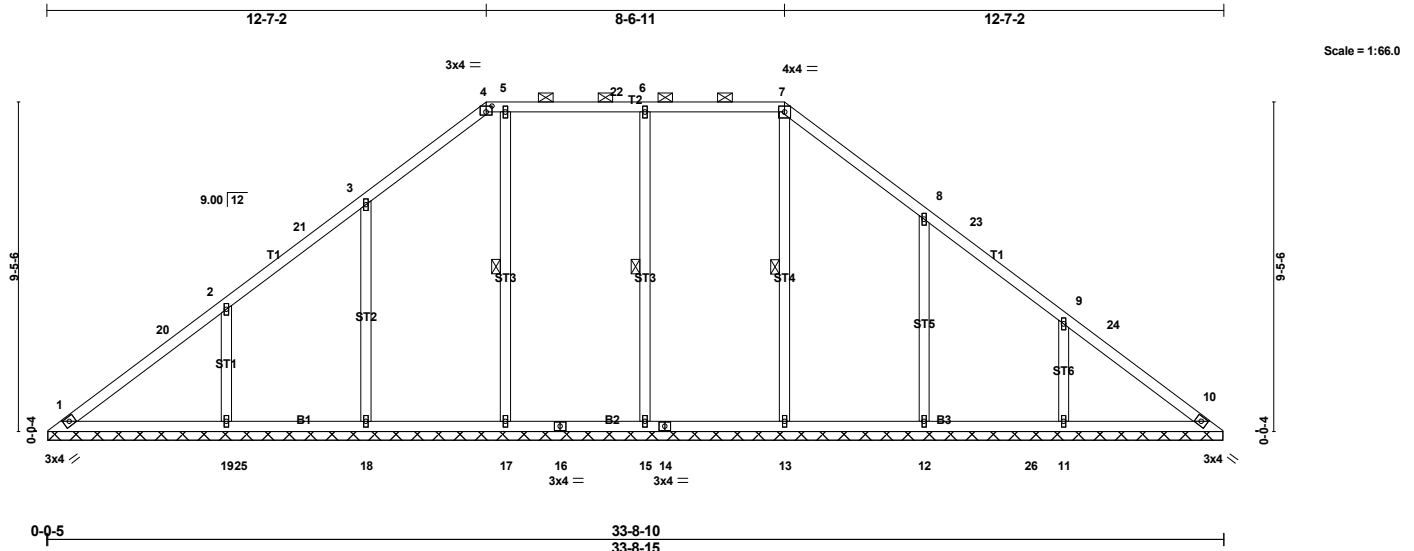ID:tcvVaC6QQtNBDXb5xYEux9yt82w-lA9r9_6ElJPTdY_WPm7CA5pO498q9HKM6YyxxnysZWF

Dimensions: 12-7-2 | 8-6-11 | 12-7-2

Scale = 1:66.0

Overall span: 33-8-10 / 33-8-15 ; 0-0-5 ; 0-0-4

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 175 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, except
2-0-0 oc purlins (6-0-0 max.): 4-7.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   1 Row at midpt   7-13, 6-15, 5-17

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

REACTIONS.   All bearings 33-8-4.
(lb) - Max Horz 1=-199(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 15, 18, 19, 12, 11
Max Grav   All reactions 250 lb or less at joint(s) 1, 10 except 13=371(LC 52), 15=501(LC 43),
17=415(LC 41), 18=511(LC 42), 19=557(LC 42), 12=543(LC 44), 11=493(LC 44)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   6-15=-367/58, 3-18=-323/95, 2-19=-351/130, 8-12=-351/113,
9-11=-311/116

JOINT STRESS INDEX
1 = -nan(ind), 2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind), 9 = -nan(ind), 10 = -nan(ind), 11 =
-nan(ind), 12 = -nan(ind), 13 = -nan(ind), 14 = -nan(ind), 15 = -nan(ind), 16 = -nan(ind), 17 = -nan(ind), 18 = -nan(ind) and 19 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=17ft; B=61ft; L=51ft;
eave=11ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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=15.4 psf (Lum DOL=1.15
Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0. Min. flat roof snow load
governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC
1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 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.
10) All bearings are assumed to be User Defined crushing capacity of 425 psi.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15,
18, 19, 12, 11.

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	V01	Roof Special	1	1	
					Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:23 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-ENiDMK6sWcXKFhZiyTeRjIMZpZU3ukZWLBhUTEysZWE

NOTES-

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.

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

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	V01	Roof Special	1	1	
					Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:23 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-ENiDMK6sWcXKFhZiyTeRjIMZpZU3ukZWLBhUTEysZWE

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	**V02**	**Roof Special**	**1**	**1**	Job Reference (optional)

Longleaf Truss Company, West End, N.C.   Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:24 2020 Page 1
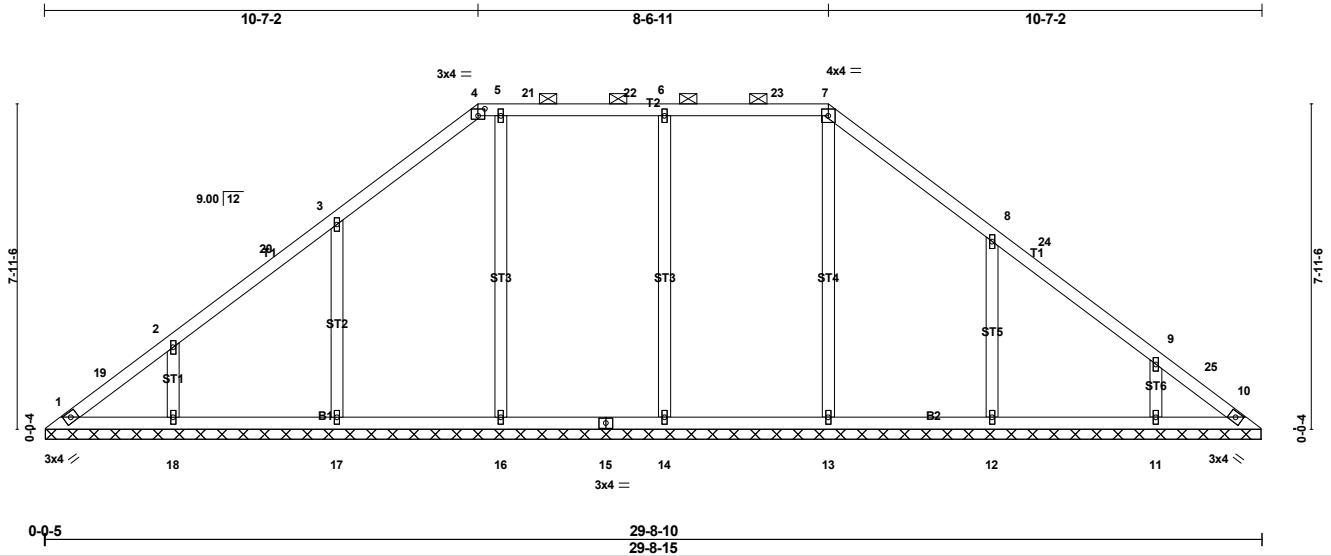ID:tcvVaC6QQtNBDXb5xYEux9yt82w-iZGbag7VHwfBsr8uWB9gGWukYzred9QfarR2?gysZWD

Scale = 1:56.3

| 10-7-2 | 8-6-11 | 10-7-2 |

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

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 146 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, except
              2-0-0 oc purlins (6-0-0 max.): 4-7.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS.   All bearings 29-8-4.
       (lb) - Max Horz 1=-167(LC 10)
               Max Uplift All uplift 100 lb or less at joint(s) 1, 10, 14, 17, 18, 12, 11
               Max Grav   All reactions 250 lb or less at joint(s) 1, 10 except 13=374(LC 24), 14=500(LC 43),
                          16=414(LC 41), 17=512(LC 42), 18=413(LC 42), 12=535(LC 44), 11=375(LC 44)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   6-14=-368/61, 3-17=-339/106, 2-18=-286/101, 8-12=-361/120,
              9-11=-260/91

JOINT STRESS INDEX
    1 = -nan(ind), 2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind), 9 = -nan(ind), 10 = -nan(ind), 11 = -nan(ind), 12 = -nan(ind), 13 = -nan(ind), 14 = -nan(ind), 15 = -nan(ind), 16 = -nan(ind), 17 = -nan(ind) and 18 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=17ft; B=61ft; L=51ft; eave=11ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 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.
10) All bearings are assumed to be User Defined crushing capacity of 425 psi.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10, 14, 17, 18, 12, 11.

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	V02	Roof Special	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:25 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-Alq_n0872En2U?j44ugvojRvINBtMcgppVAbX6ysZWC

NOTES-

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.

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

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	V02	Roof Special	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:25 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-Alq_n0872En2U?j44ugvojRvINBtMcgppVAbX6ysZWC

NOTES-

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.

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

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	V03	Roof Special	1	1	
					Job Reference (optional)

8-7-2   8-6-11   8-7-2

Scale = 1:46.5

0-0-5
25-8-10
25-8-15

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 117 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 3-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

REACTIONS. All bearings 25-8-4.
(lb) - Max Horz 1=-135(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 11, 14, 9
Max Grav All reactions 250 lb or less at joint(s) 1, 8 except 10=369(LC 24), 11=506(LC 43),
13=396(LC 41), 14=619(LC 42), 9=578(LC 44)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-11=-370/63, 2-14=-407/129, 7-9=-391/129

JOINT STRESS INDEX
1 = -nan(ind), 2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind), 9 = -nan(ind), 10 = -nan(ind), 11 = -nan(ind), 12 = -nan(ind), 13 = -nan(ind) and 14 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=18ft; B=61ft; L=51ft;
eave=9ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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=15.4 psf (Lum DOL=1.15
Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load
governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC
1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 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.
10) All bearings are assumed to be User Defined crushing capacity of 425 psi.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11,
14, 9.
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.

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	V03	Roof Special	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:26 2020 Page 2
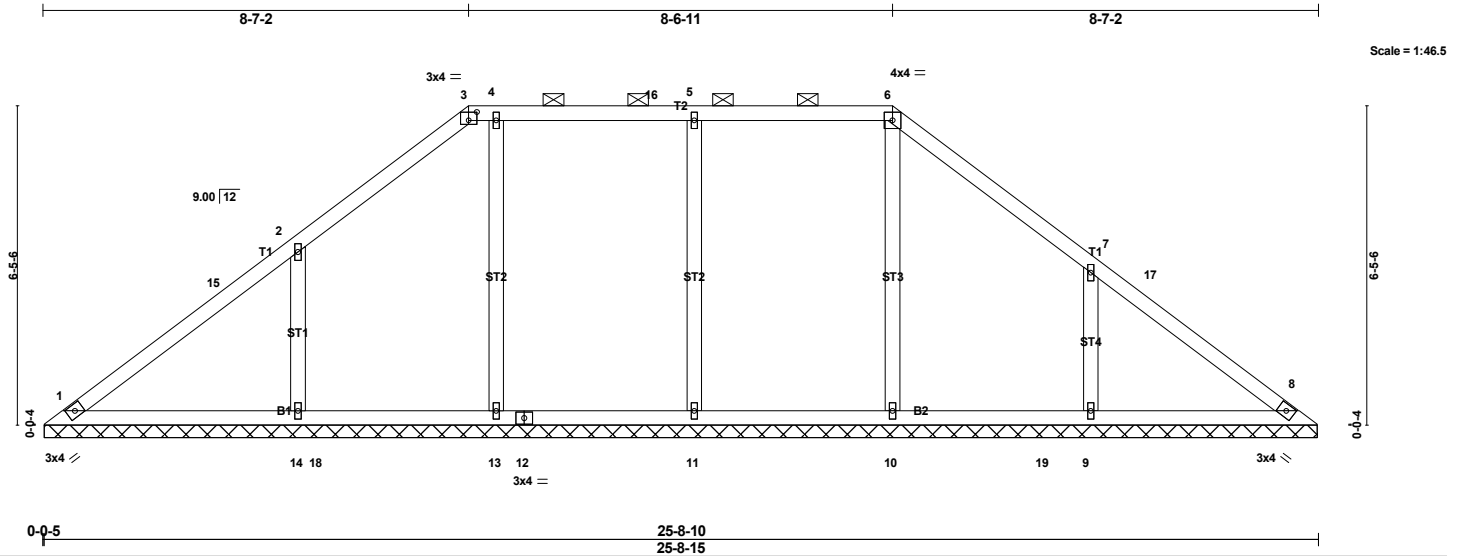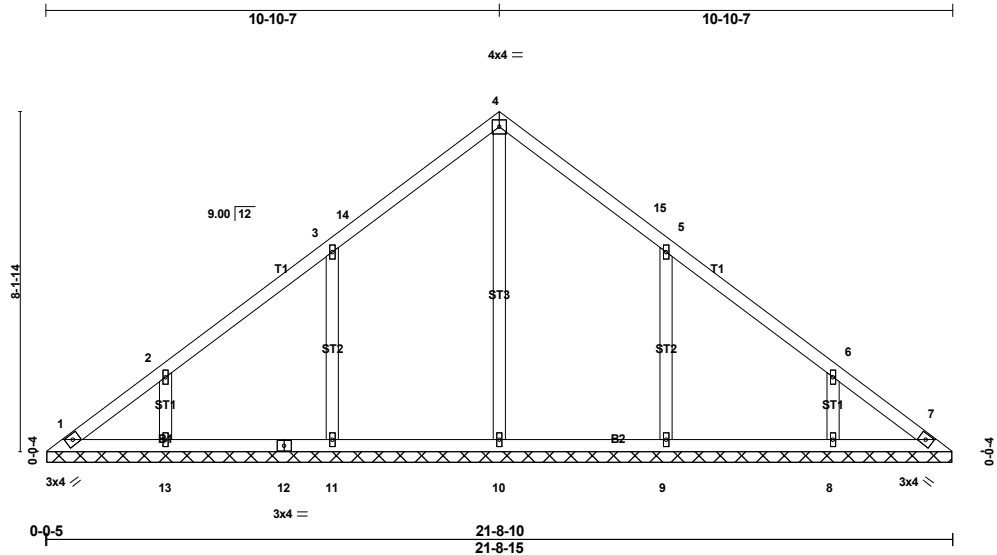ID:tcvVaC6QQtNBDXb5xYEux9yt82w-eyOM_M9lpXvv69IHecB8Lx_3zmVf55By19w84ZysZWB

NOTES-

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

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	V03	Roof Special	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:26 2020 Page 2
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-eyOM_M9lpXvv69IHecB8Lx_3zmVf55By19w84ZysZWB

NOTES-

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

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	V04	Valley	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.   Run: 8.330 s Jun 11 2020 Print: 8.330 s Jun 11 2020 MiTek Industries, Inc. Fri Jul 31 12:10:27 2020 Page 1
ID:tcvVaC6QQtNBDXb5xYEux9yt82w-68ykCi9Nar1mjJtTBJjNt8WGmAsIqaq6Gpfic?ysZWA

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 101 lb	FT = 20%

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

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

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

REACTIONS.   All bearings 21-8-4.
        (lb) - Max Horz 1=-174(LC 10)
                Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 13, 9, 8
                Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=359(LC 23), 11=461(LC 23),
                    13=350(LC 23), 9=460(LC 24), 8=351(LC 24)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   3-11=-288/122, 5-9=-288/122

JOINT STRESS INDEX

   1 = -nan(ind), 2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind), 9 = -nan(ind), 10 = -nan(ind), 11 =
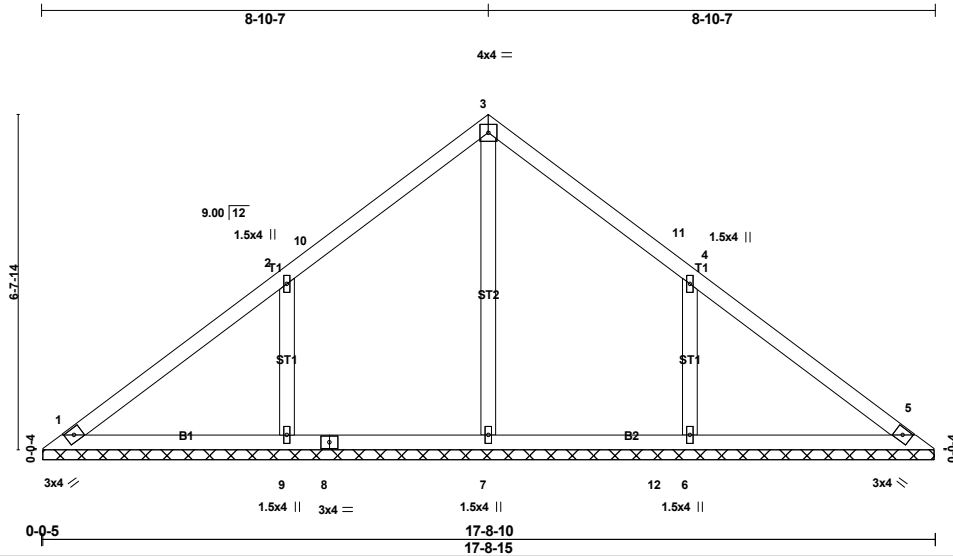   -nan(ind), 12 = -nan(ind) and 13 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=19ft; B=61ft; L=51ft;
   eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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=10.4 psf (Lum DOL=1.15
   Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
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, with BCDL = 10.0psf.
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 100 lb uplift at joint(s) 1,
    11, 13, 9, 8.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2
    and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	**V05**	**Valley**	**1**	**1**	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

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ID:tcvVaC6QQtNBDXb5xYEux9yt82w-aKW6P1A?L99dLTRfl0EcQM3PvaBRZ2DFVTPF8RysZW9

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 76 lb	FT = 20%

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

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

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

REACTIONS.   All bearings 17-8-4.
  (lb) - Max Horz 1=-141(LC 10)
          Max Uplift All uplift 100 lb or less at joint(s) 9, 6
          Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=325(LC 23), 9=523(LC 23),
             6=526(LC 24)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   2-9=-328/138, 4-6=-328/138

JOINT STRESS INDEX
  1 = -nan(ind), 2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind), 8 = -nan(ind) and 9 = -nan(ind)
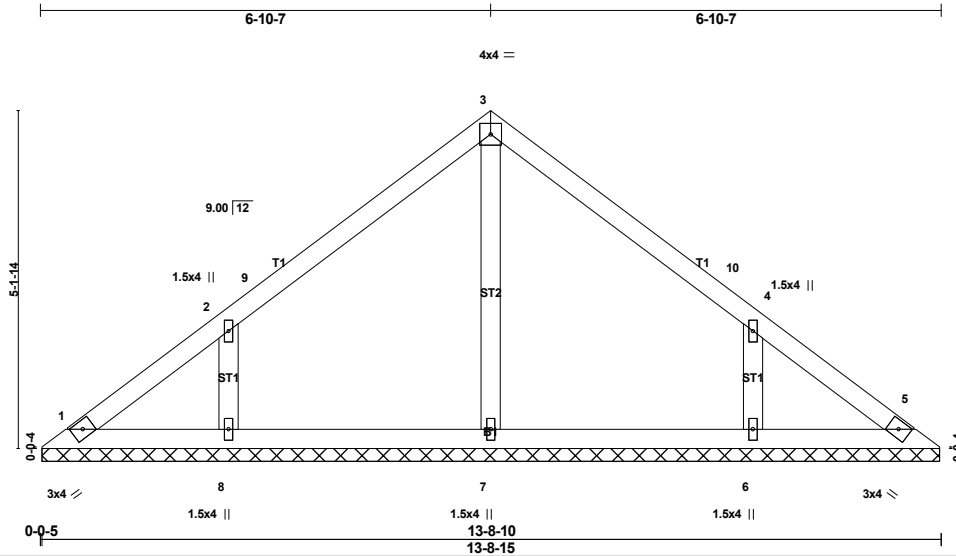
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=61ft; L=51ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Gable requires continuous bottom chord bearing.
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) 9, 6.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	V06	Valley	1	1	
					Job Reference (optional)

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 56 lb	FT = 20%

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

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

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

REACTIONS.   All bearings 13-8-4.
(lb) - Max Horz 1=108(LC 11)
        Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6
        Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=329(LC 23), 6=329(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   2-8=-257/111, 4-6=-257/111

JOINT STRESS INDEX
   1 = -nan(ind), 2 = -nan(ind), 3 = -nan(ind), 4 = -nan(ind), 5 = -nan(ind), 6 = -nan(ind), 7 = -nan(ind) and 8 = -nan(ind)
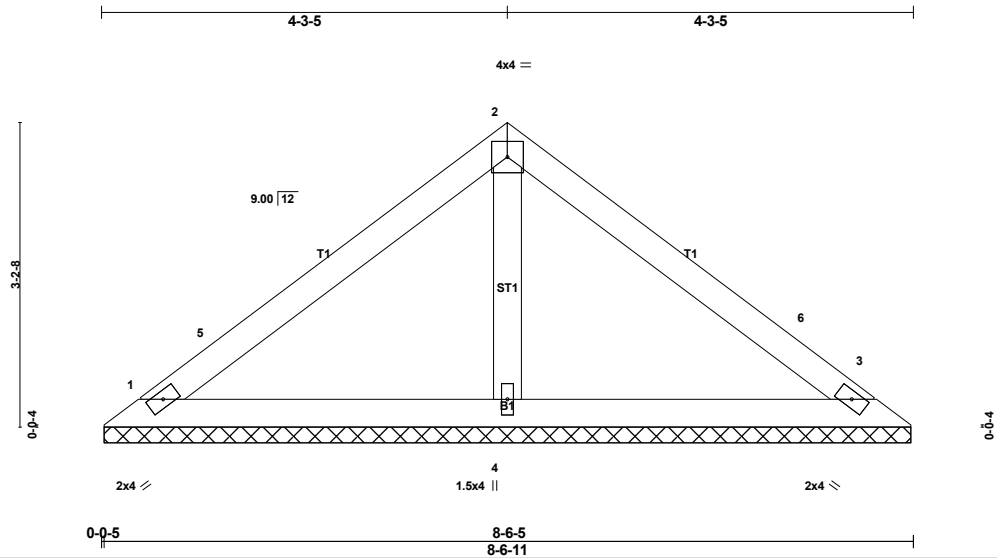
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=21ft; B=61ft; L=51ft;
   eave=3ft; Cat. II; Exp B; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15
   Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by
   2-0-0 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be User Defined crushing capacity of 425 psi.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8,
   6.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2
    and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 2
P20-07029	V07	Valley	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

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ID:tcvVaC6QQtNBDXb5xYEux9yt82w-2X4UdNBd5SHUzc0sJklryZca3_Y1IWaOj78oguysZW8

4-3-5   4-3-5

Scale = 1:24.3

9.00 ⌐12

3-2-8

0-0-4

2x4 ⟋   1.5x4 || 2x4 ⟍

0-0-5   8-6-5
8-6-11

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 31 lb	FT = 20%

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

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

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

REACTIONS. (size) 1=8-6-0 (min. 0-1-8), 3=8-6-0 (min. 0-1-8), 4=8-6-0 (min. 0-1-8)
Max Horz 1=65(LC 11)
Max Uplift1=-25(LC 12), 3=-25(LC 12)
Max Grav 1=174(LC 2), 3=174(LC 2), 4=266(LC 2)

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

JOINT STRESS INDEX
1 = -nan(ind), 2 = -nan(ind), 3 = -nan(ind) and 4 = -nan(ind)

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=22ft; B=61ft; L=51ft; eave=0ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be User Defined crushing capacity of 425 psi.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard