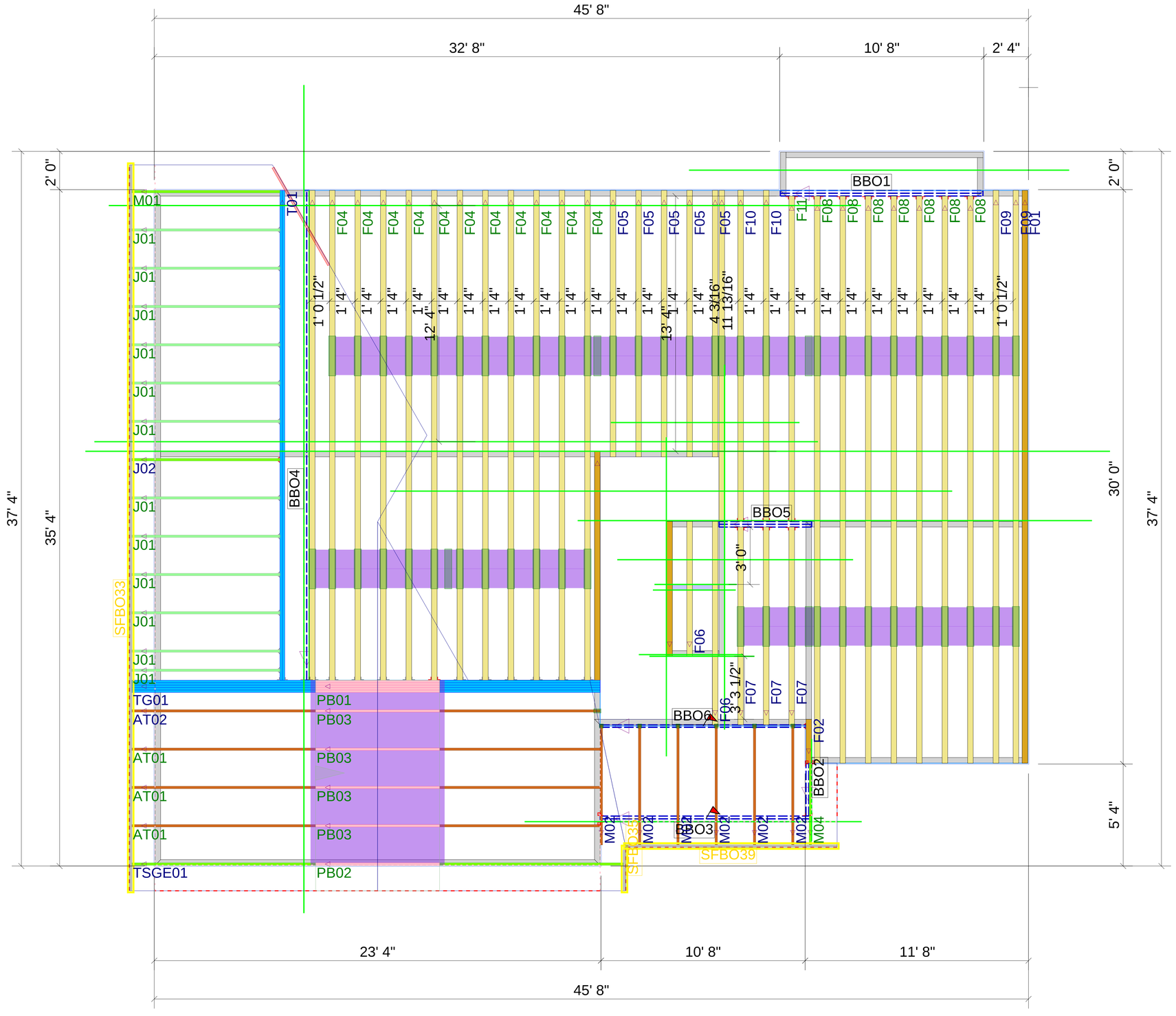


Floor Area: 1043.11 SF
Floor Plywood: 1125.3

Roof Area: 2422.78 SF
Roof Plywood: 90 sheets
Roof Shingles: 30 Squares

ROOF TRUSS LAYOUT

1/4" = 1'-0"

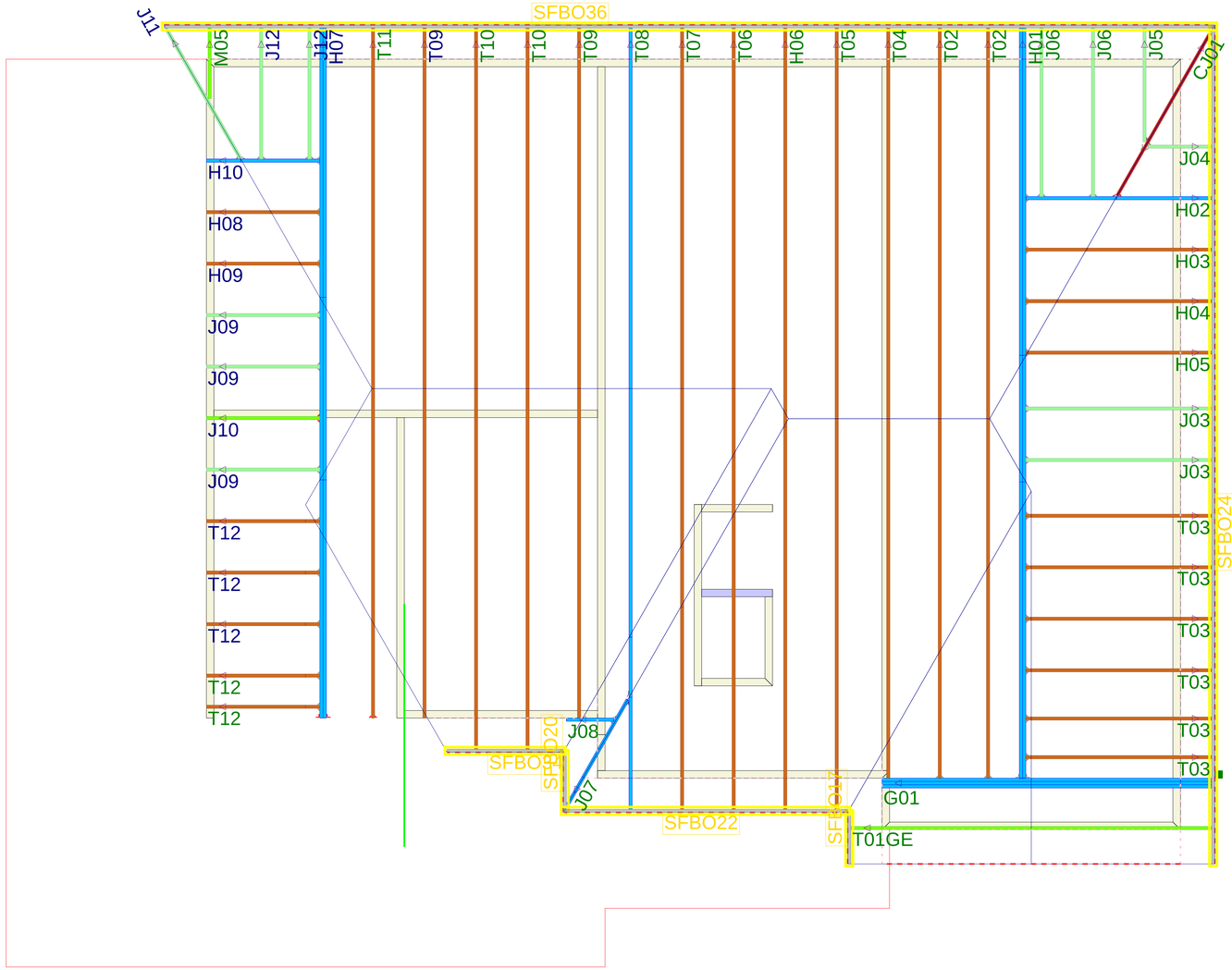
NOTE

IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER OR ARCHITECT TO PROVIDE AN APPROPRIATE CONNECTION FOR TRUSSES TO SUPPORTING STRUCTURE PERREACTIONS SHOWN ON TRUSS ENGINEERING. SPECIAL CONSIDERATIONS FOR MECHANICAL EQUIPMENT AND/OR PLUMBING (AND THEIR CONNECTIONS) IN TRUSS SPACE MUST BE DIAGRAMMED BY BUILDER ON APPROVED TRUSS LAYOUT PRIOR TO FABRICATION.

THIS COMPANY IS A TRUSS MANUFACTURER WHOSE RESPONSIBILITIES ARE LIMITED TO THOSE DESCRIBED IN WTCA1-1995 "DESIGN RESPONSIBILITIES". ACCORDINGLY, IT DISCLAIMS ANY RESPONSIBILITIES AND/OR LIABILITY FOR THE CONSTRUCTION, DESIGN, DRAWINGS, DOCUMENTS INCLUDING THE INSTALLATION AND BRACING OF TRUSSES MANUFACTURED BY THIS COMPANY. SEE http://support.sbcindustry.com/pubs/TTBDResp-D

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

Client: SERVICE BUILDING SUPPLY
Project: RAY WICKERS
Model: Model
Subdivision:
Lot #:
Designer: Justin Clayton
Date: 62
Order #: P24040749



Floor Area: 1043.11 SF
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ROOF TRUSS LAYOUT

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

Client: SERVICE BUILDING SUPPLY
Project: RAY WICKERS
Model: Model
Subdivision:
Lot #:
Designer: Justin Clayton
Date: 62
Order #: P24040749

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	AT01	Attic	3	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:14 2024 Page 1
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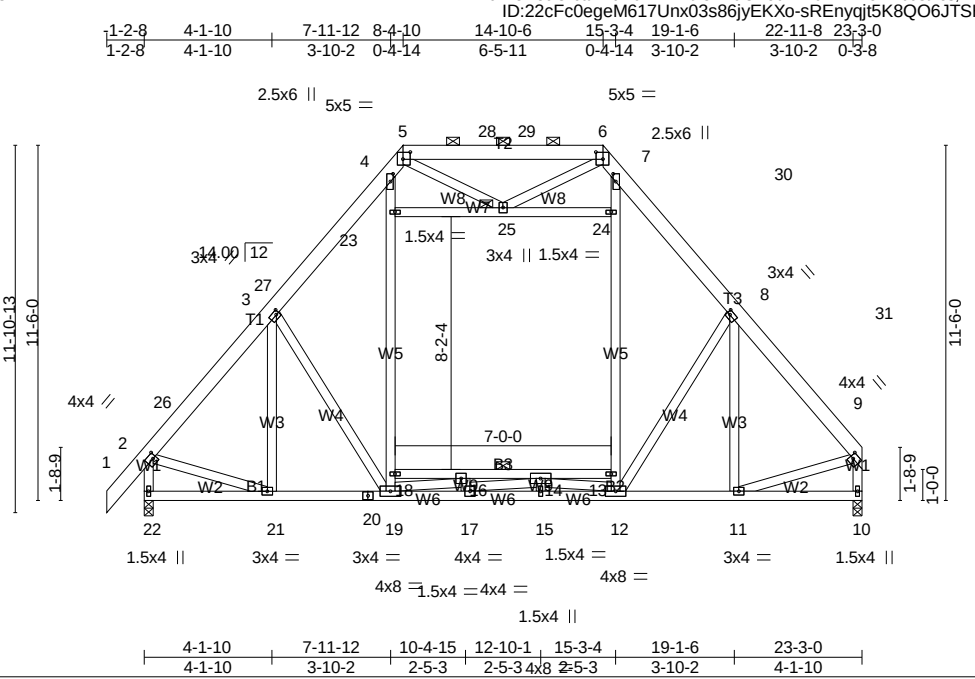

Plate Offsets (X,Y)-- [2:0-1-4,0-2-0], [3:0-1-4,0-1-8], [4:0-3-0,0-1-0], [5:0-2-12,0-2-12], [6:0-2-12,0-2-12], [7:0-3-0,0-1-0], [8:0-1-4,0-1-8], [9:0-1-4,0-2-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.06	15-17	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.10	15-17	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.02	10	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S		Attic	-0.04	13-18	2406	360	Weight: 241 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1 *Except*
B3: 2x4 SP No.3
WEBS 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.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
5-9-0 oc bracing: 13-18
JOINTS 1 Brace at Jt(s): 25

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

REACTIONS. (lb/size) 22=1011/0-3-8 (min. 0-2-3), 10=950/0-3-8 (min. 0-2-1)
Max Horz 22=280(LC 11)
Max Grav 22=1379(LC 44), 10=1318(LC 44)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-26=-1284/0, 3-26=-1120/0, 3-27=-1291/0, 4-27=-1115/0, 4-5=-645/37, 5-28=-761/4, 28-29=-761/4, 6-29=-761/4, 6-7=-644/36, 7-30=-1116/0, 8-30=-1294/0, 8-31=-1132/0, 9-31=-1285/0, 2-22=-1339/0, 9-10=-1276/0
BOT CHORD 21-22=-256/260, 20-21=0/941, 19-20=0/941, 17-19=0/1520, 15-17=0/1396, 12-15=0/1396, 11-12=0/809, 14-16=-828/0
WEBS 18-19=-18/492, 18-23=-3/669, 4-23=0/680, 12-13=-20/498, 13-24=-5/677, 7-24=0/688, 8-12=-260/139, 2-21=0/840, 9-11=0/835, 16-19=-912/0, 12-14=-894/0

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, 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 1.00 times flat roof load of 11.6 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.
9) Ceiling dead load (5.0 psf) on member(s). 23-25, 24-25; Wall dead load (5.0psf) on member(s).18-23, 13-24
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 16-18, 14-16, 13-14
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.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	AT01	Attic	3	1	Job Reference (optional)

NOTES-

13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	AT02	Attic	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:16 2024 Page 1
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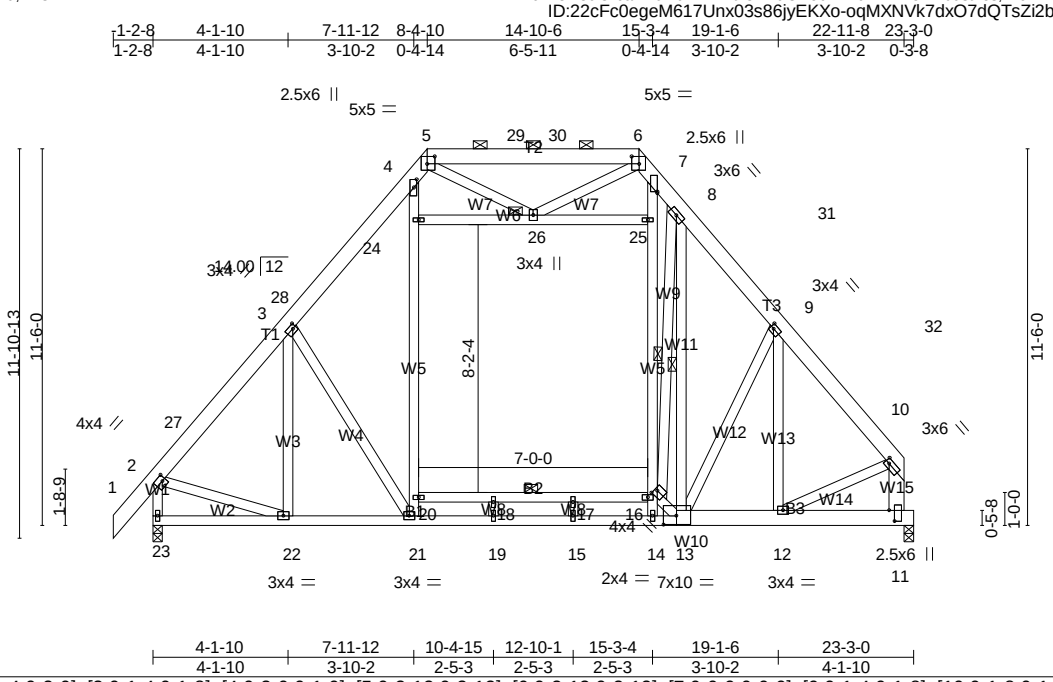

Plate Offsets (X,Y)-- [2:0-1-4,0-2-0], [3:0-1-4,0-1-8], [4:0-3-0,0-1-0], [5:0-2-12,0-2-12], [6:0-2-12,0-2-12], [7:0-0-9,0-0-0], [9:0-1-4,0-1-8], [10:0-1-8,0-1-8], [11:0-4-0,0-2-0], [13:0-4-12,0-3-4], [16:0-1-0,0-2-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.17	15-19	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.27	15-19	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.01	11	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S		Attic	-0.15	16-20	569	360		
BCDL	10.0										Weight: 265 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1 *Except* B1: 2x4 SP No.1, B2: 2x4 SP No.2
WEBS	2x4 SP No.3 *Except* W15: 2x6 SP No.1

BRACING-

TOP CHORD	Sheathed or 6-0-0 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. Except: 6-0-0 oc bracing: 16-20
WEBS	1 Row at midpt 8-13, 8-16
JOINTS	1 Brace at Jt(s): 26

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

REACTIONS. (lb/size) 23=995/0-3-8 (min. 0-2-2), 11=939/0-3-8 (min. 0-2-1)
Max Horz 23=-262(LC 10)
Max Grav 23=1354(LC 44), 11=1311(LC 44)

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

TOP CHORD	2-27=-1250/0, 3-27=-1082/0, 3-28=-1286/0, 4-28=-1113/0, 4-5=-655/34, 5-29=-757/0, 29-30=-757/0, 6-30=-757/0, 6-7=-648/35, 7-8=-1276/0, 8-31=-1090/0, 9-31=-1227/0, 9-32=-1123/0, 10-32=-1174/0, 2-23=-1304/0
BOT CHORD	21-22=0/912, 19-21=0/809, 15-19=0/809, 14-15=0/809, 13-14=0/990, 12-13=0/740
WEBS	3-22=-283/0, 20-21=-26/451, 20-24=-0/686, 4-24=0/698, 14-16=0/754, 16-25=-34/905, 7-25=0/918, 9-12=-261/0, 2-22=0/805, 10-11=-1281/0, 10-12=0/823, 13-16=-361/144, 8-13=-302/0, 8-16=-201/336

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, 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 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
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.
10) Ceiling dead load (5.0 psf) on member(s). 24-26, 25-26; Wall dead load (5.0psf) on member(s).20-24, 16-25
11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 18-20, 17-18, 16-17

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	AT02	Attic	1	1	Job Reference (optional)

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.
14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	CJ01	Diagonal Hip Girder	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:18 2024 Page 1
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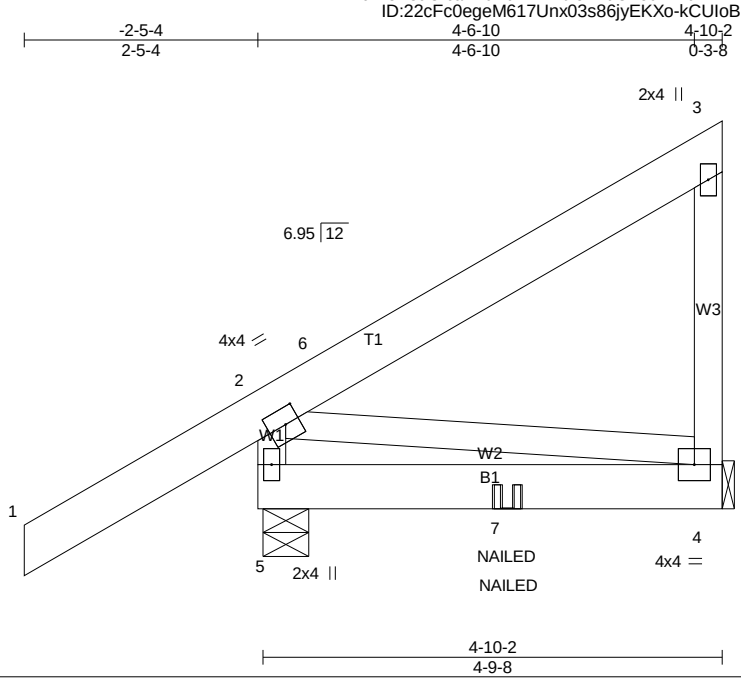

Plate Offsets (X,Y)-- [2:0-1-12,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P							Weight: 43 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Sheathed or 4-10-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 5=321/0-5-12 (min. 0-1-8), 4=153/Mechanical
Max Horz 5=122(LC 9)
Max Uplift 5=-130(LC 12), 4=-88(LC 9)
Max Grav 5=407(LC 2), 4=213(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-335/103

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=130.
9) 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.
10) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-43, 2-3=-43, 4-5=-20
Concentrated Loads (lb)
Vert: 7=-76(F)

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	F01	Floor Supported Gable	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:21 2024 Page 1
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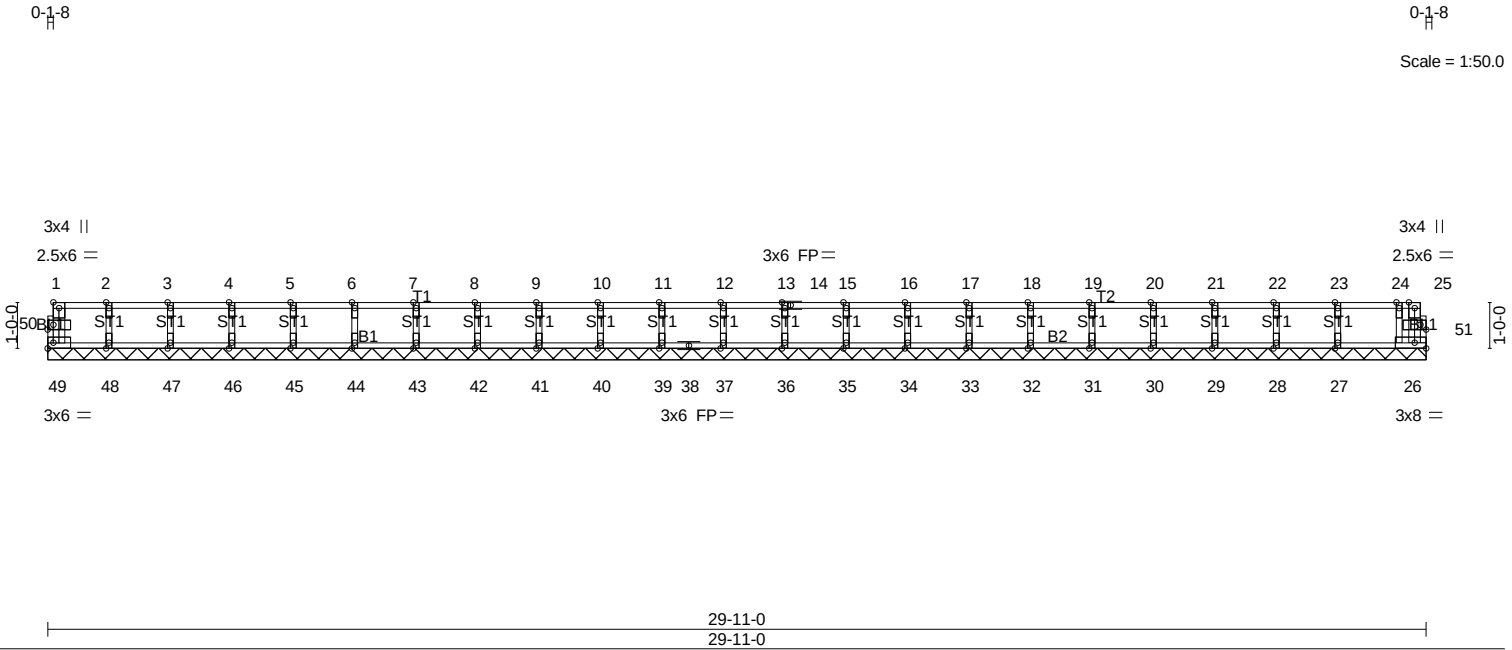

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [50:0-1-8,0-1-4], [51:0-1-8,0-1-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	26	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-R							Weight: 119 lb	FT = 8%F, 4%E

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

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

REACTIONS. All bearings 29-11-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 49, 26, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27

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

NOTES-
1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) All plates are 1.5x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 0 degree rotation about its center.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 1-4-0 oc.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	F02	Floor Supported Gable	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:22 2024 Page 1
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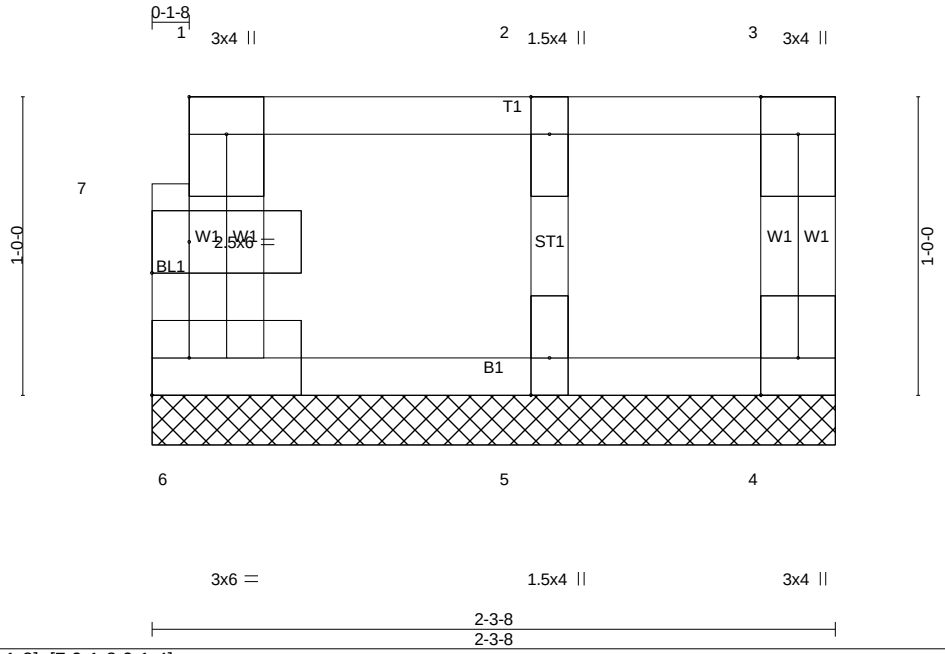

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,0-1-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-R							Weight: 13 lb	FT = 8%F, 4%E

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

BRACING-
TOP CHORD Sheathed or 2-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=57/2-3-8 (min. 0-1-8), 4=46/2-3-8 (min. 0-1-8), 5=108/2-3-8 (min. 0-1-8)

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

NOTES-
1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) Plates checked for a plus or minus 0 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	F04	Floor	12	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:24 2024 Page 1
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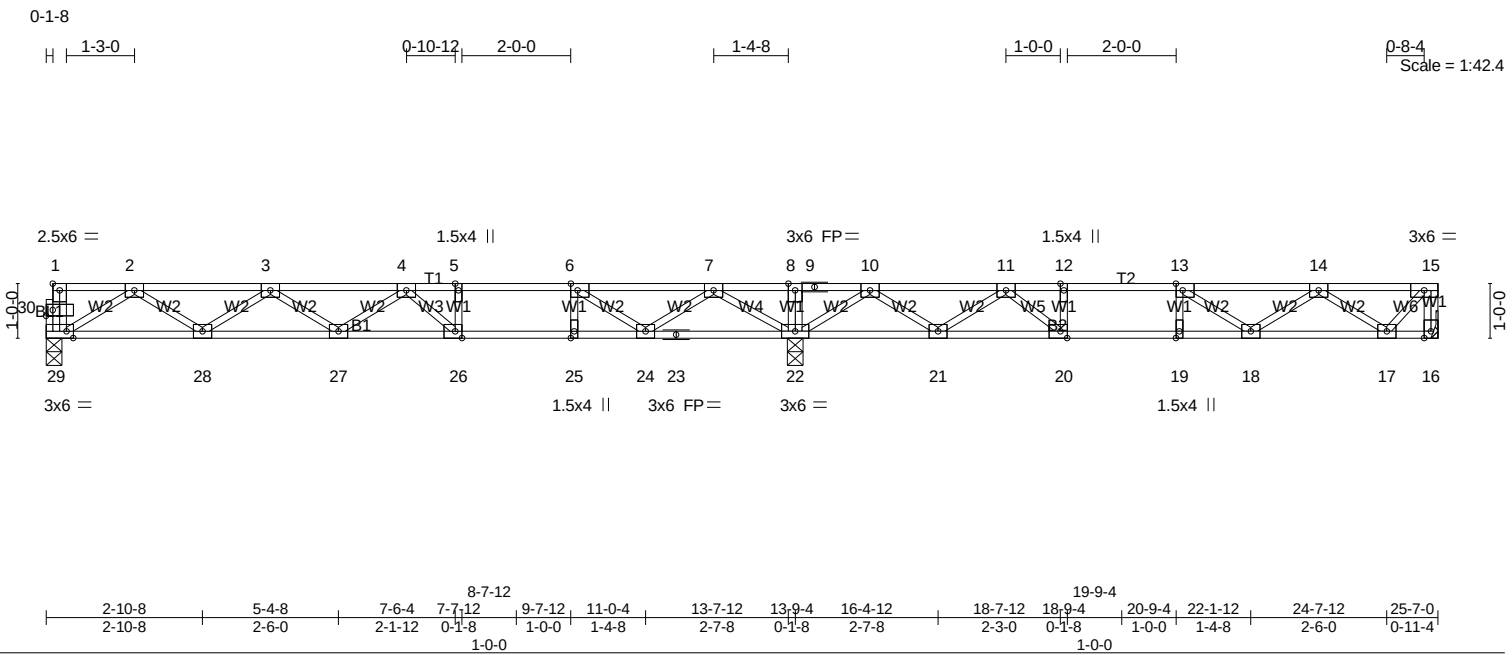

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [13:0-1-8,Edge], [20:0-1-8,Edge], [26:0-1-8,Edge], [29:0-1-8,Edge], [30:0-1-8,0-1-4]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.57	Vert(LL)	-0.16	26-27	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.22	26-27	>745	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.03	16	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 124 lb	FT = 8%F, 4%E

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

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 22-24,21-22,20-21.

REACTIONS. (lb/size) 16=359/Mechanical, 29=433/0-3-8 (min. 0-1-8), 22=1057/0-3-8 (min. 0-1-8)
Max Grav 16=385(LC 4), 29=454(LC 3), 22=1057(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 15-16=-383/0, 2-3=-1074/0, 3-4=-1585/0, 4-5=-1402/0, 5-6=-1402/0, 6-7=-739/123, 7-8=0/935, 8-9=0/935, 9-10=0/935, 10-11=-510/211, 11-12=-1122/0, 12-13=-1122/0, 13-14=-969/0, 14-15=-309/0
BOT CHORD 28-29=0/686, 27-28=0/1450, 26-27=0/1629, 25-26=0/1402, 24-25=0/1402, 23-24=-321/210, 22-23=-321/210, 21-22=-369/113, 20-21=-50/909, 19-20=0/1122, 18-19=0/1122, 17-18=0/770
WEBS 2-29=-800/0, 2-28=0/474, 3-28=-459/0, 4-26=-429/0, 6-24=-871/0, 7-24=0/696, 7-22=-943/0, 10-22=-825/0, 10-21=0/524, 11-21=-545/0, 11-20=0/452, 14-17=-563/0, 15-17=0/454

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 0 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	F05	Floor	5	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:25 2024 Page 1
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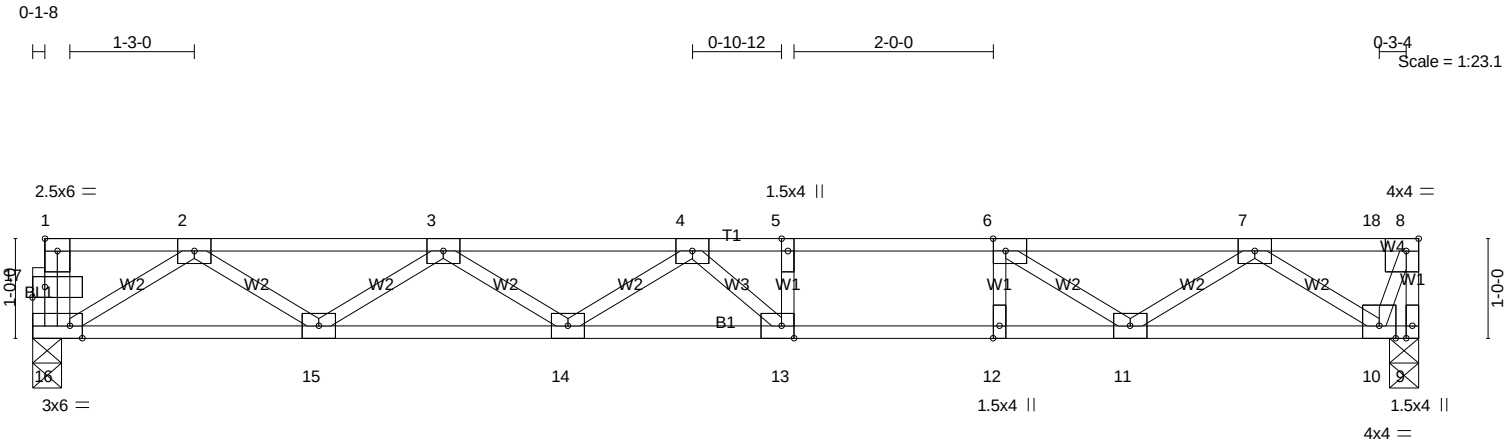

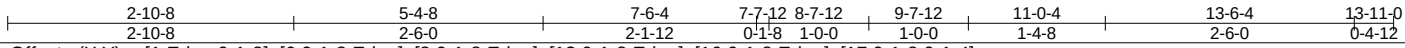

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [8:0-1-8,Edge], [13:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,0-1-4]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.52	Vert(LL)	-0.16	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.22	13-14	>740	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 68 lb	FT = 8%F, 4%E

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

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

REACTIONS. (lb/size) 9=-969/0-3-8 (min. 0-1-8), 16=460/0-3-8 (min. 0-1-8), 10=1506/0-3-8 (min. 0-1-8)
Max Uplift9=-969(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-9=0/893, 2-3=-1092/0, 3-4=-1618/0, 4-5=-1457/0, 5-6=-1457/0, 6-7=-806/0, 7-18=0/358, 8-18=0/358
BOT CHORD 15-16=0/695, 14-15=0/1476, 13-14=0/1671, 12-13=0/1457, 11-12=0/1457, 10-11=0/303
WEBS 2-16=-811/0, 2-15=0/484, 3-15=-469/0, 4-13=-349/34, 6-11=-782/0, 7-11=0/614, 7-10=-807/0, 8-10=-1005/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 0 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 969 lb uplift at joint 9.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	F06	Floor	3	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:26 2024 Page 1
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1-3-0 0-11-12 0-4-12

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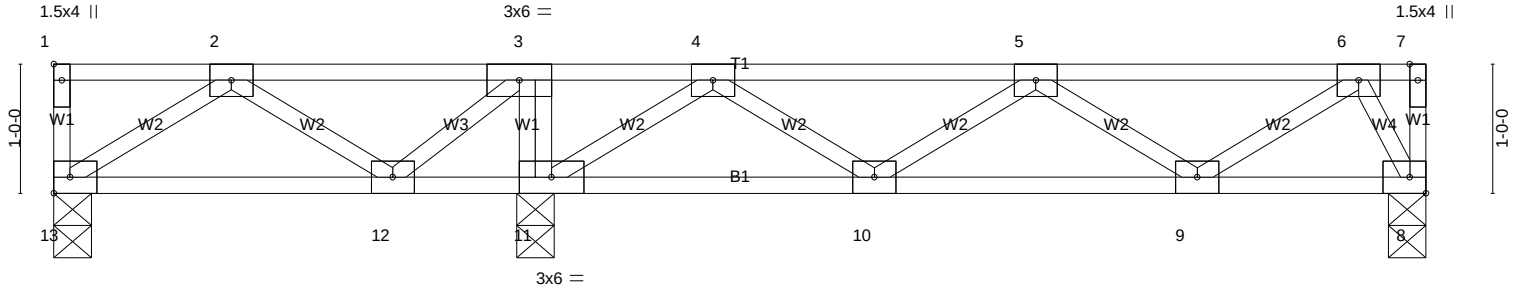

2-7-8	3-8-12	6-4-4	8-10-4	10-6-0	10-7-8
2-7-8	1-1-4	2-7-8	2-6-0	1-7-12	0-1-8

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

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.15	Vert(LL)	-0.01	10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.01	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 54 lb	FT = 8%F, 4%E

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

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

REACTIONS. (lb/size) 13=64/0-3-8 (min. 0-1-8), 11=494/0-3-8 (min. 0-1-8), 8=213/0-3-8 (min. 0-1-8)
Max Uplift13=-26(LC 4)
Max Grav13=107(LC 3), 11=494(LC 1), 8=217(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=0/261, 4-5=-278/0, 5-6=-280/0
BOT CHORD 11-12=-261/0, 9-10=0/405
WEBS 4-11=-447/0, 6-8=-289/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 0 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 13.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	F07	Floor	3	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:28 2024 Page 1
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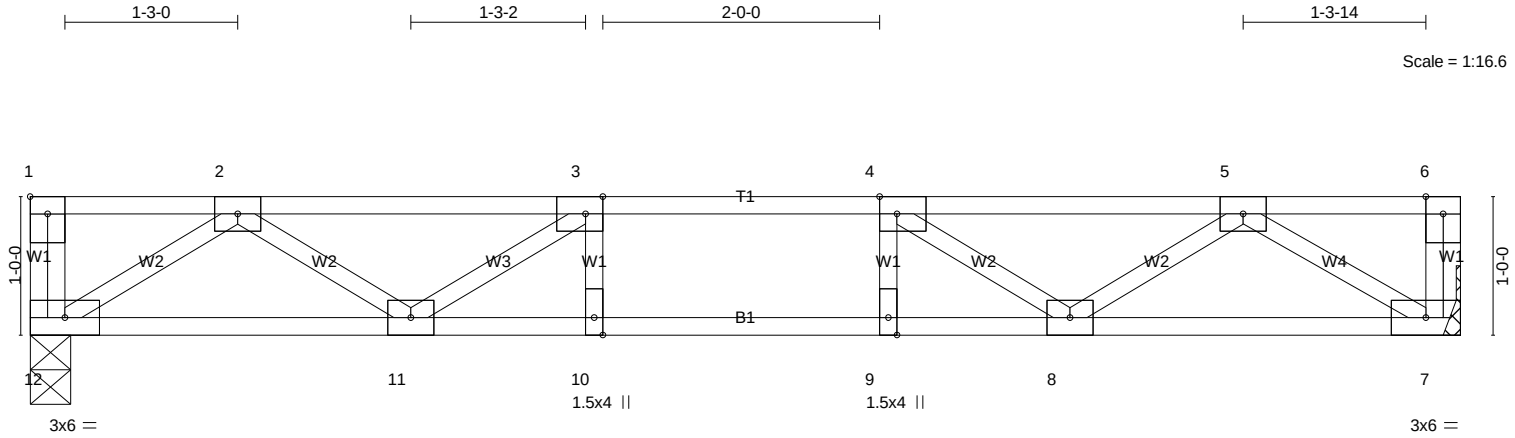

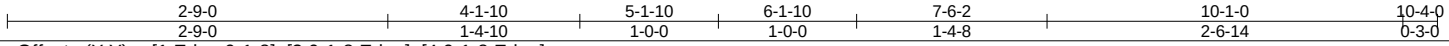

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [3:0-1-8,Edge], [4:0-1-8,Edge]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	-0.05	9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.31	Vert(CT)	-0.06	9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 51 lb	FT = 8%F, 4%E

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

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

REACTIONS. (lb/size) 12=370/0-3-8 (min. 0-1-8), 7=370/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-791/0, 3-4=-1047/0, 4-5=-805/0
BOT CHORD 11-12=0/528, 10-11=0/1047, 9-10=0/1047, 8-9=0/1047, 7-8=0/550
WEBS 2-12=-626/0, 2-11=0/321, 3-11=-335/0, 4-8=-323/0, 5-8=0/312, 5-7=-643/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 0 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	F08	Floor	7	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:30 2024 Page 1
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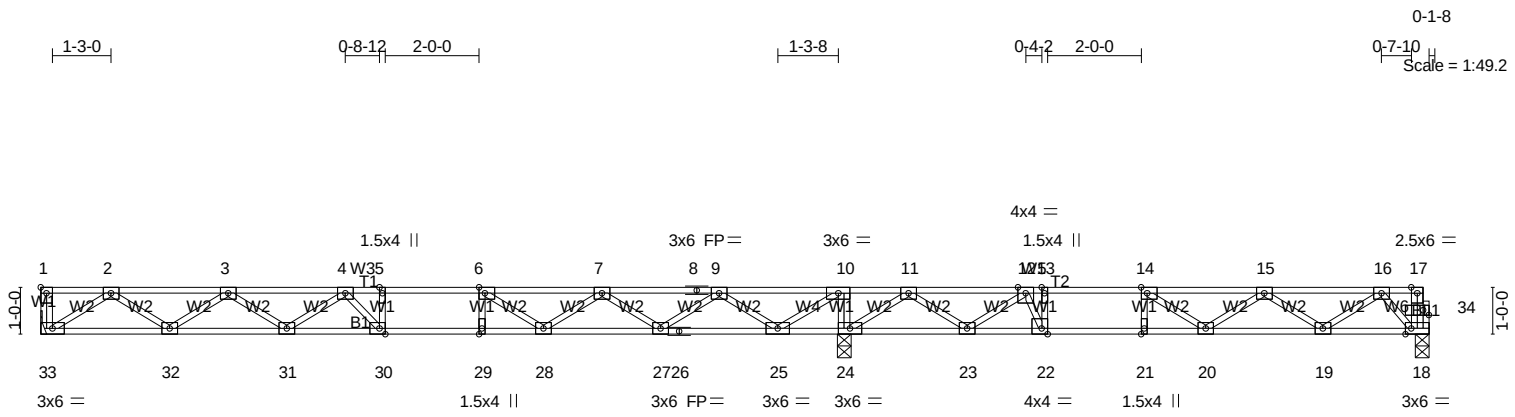

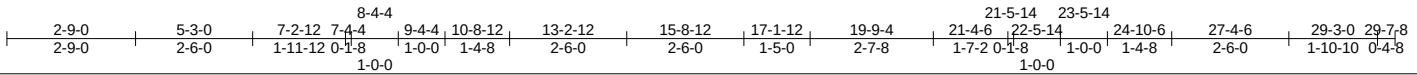

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [14:0-1-8,Edge], [18:0-1-8,Edge], [22:0-1-8,Edge], [30:0-1-8,Edge], [34:0-1-8,0-1-4]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.18	30	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.25	30	>824	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.03	18	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 143 lb	FT = 8%F, 4%E

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

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

REACTIONS. (lb/size) 33=533/Mechanical, 18=320/0-3-8 (min. 0-1-8), 24=1292/0-3-8 (min. 0-1-8)
Max Grav 33=547(LC 3), 18=393(LC 4), 24=1292(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1323/0, 3-4=-2076/0, 4-5=-2270/0, 5-6=-2270/0, 6-7=-1887/0, 7-8=-976/0, 8-9=-976/0, 9-10=0/735, 10-11=0/1722, 11-12=-423/905, 12-13=-1114/413, 13-14=-1114/413, 14-15=-1161/164, 15-16=-738/10
BOT CHORD 32-33=0/800, 31-32=0/1825, 30-31=0/2284, 29-30=0/2270, 28-29=0/2270, 27-28=0/1541, 26-27=-194/380, 25-26=-194/380, 24-25=-1722/0, 23-24=-1157/0, 22-23=-595/921, 21-22=-413/1114, 20-21=-413/1114, 19-20=-36/1099, 18-19=0/363
WEBS 13-22=-573/0, 10-24=-752/0, 2-33=-948/0, 2-32=0/639, 3-32=-612/0, 3-31=0/307, 4-31=-254/0, 6-28=-592/0, 7-28=0/469, 7-27=-713/0, 9-27=0/753, 9-25=-1066/0, 10-25=0/1160, 11-24=-928/0, 11-23=0/657, 12-23=-781/0, 12-22=0/846, 14-20=0/354, 15-19=-441/33, 16-19=-15/457, 16-18=-529/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 0 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	F09	Floor	2	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:32 2024 Page 1
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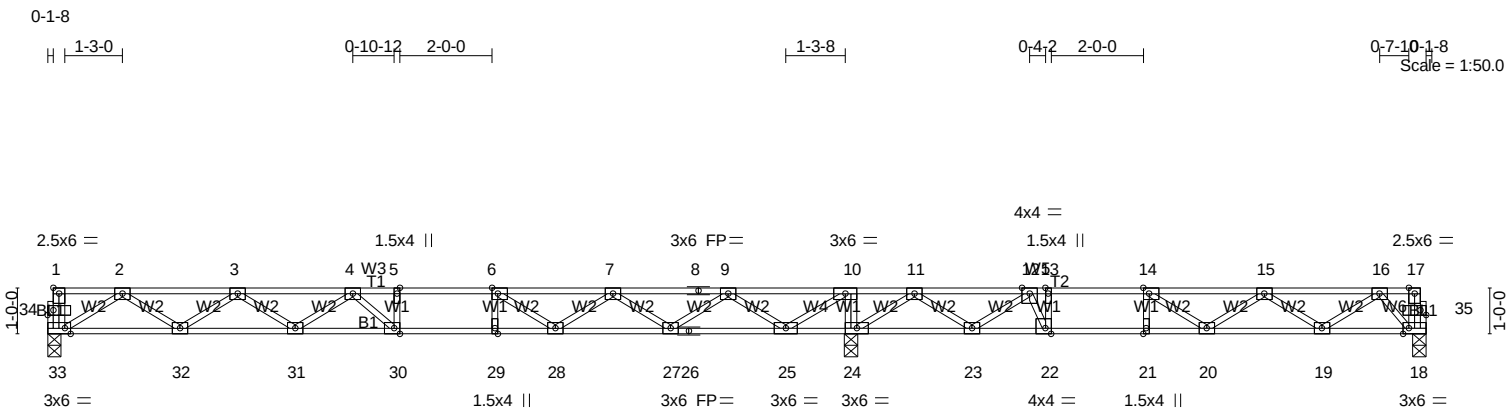

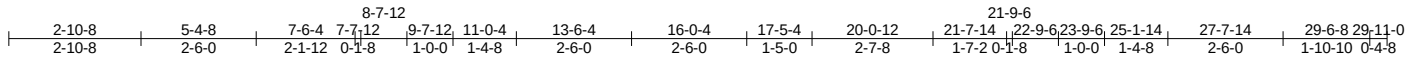

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [14:0-1-8,Edge], [18:0-1-8,Edge], [22:0-1-8,Edge], [30:0-1-8,Edge], [33:0-1-8,Edge], [34:0-1-8,0-1-4], [35:0-1-8,0-1-4]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.20	30	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.27	30-31	>775	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.03	18	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 145 lb	FT = 8%F, 4%E

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

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

REACTIONS. (lb/size) 18=318/0-3-8 (min. 0-1-8), 33=537/0-3-8 (min. 0-1-8), 24=1303/0-3-8 (min. 0-1-8)
Max Grav 18=392(LC 4), 33=551(LC 3), 24=1303(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1371/0, 3-4=-2135/0, 4-5=-2327/0, 5-6=-2327/0, 6-7=-1920/0, 7-8=-982/0, 8-9=-982/0, 9-10=0/753, 10-11=0/1754, 11-12=-418/932, 12-13=-1110/432, 13-14=-1110/432, 14-15=-1159/177, 15-16=-737/15
BOT CHORD 32-33=0/843, 31-32=0/1878, 30-31=0/2345, 29-30=0/2327, 28-29=0/2327, 27-28=0/1559, 26-27=-195/373, 25-26=-195/373, 24-25=-1754/0, 23-24=-1187/0, 22-23=-618/916, 21-22=-432/1110, 20-21=-432/1110, 19-20=-45/1097, 18-19=0/363
WEBS 13-22=-578/0, 10-24=-761/0, 2-33=-984/0, 2-32=0/645, 3-32=-618/0, 3-31=0/314, 4-31=-256/0, 6-28=-619/0, 7-28=0/485, 7-27=-726/0, 9-27=0/768, 9-25=-1081/0, 10-25=0/1176, 11-24=-933/0, 11-23=0/661, 12-23=-786/0, 12-22=0/855, 14-20=0/361, 15-19=-440/36, 16-19=-19/457, 16-18=-528/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 0 degree rotation about its center.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	F10	Floor	3	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:33 2024 Page 1
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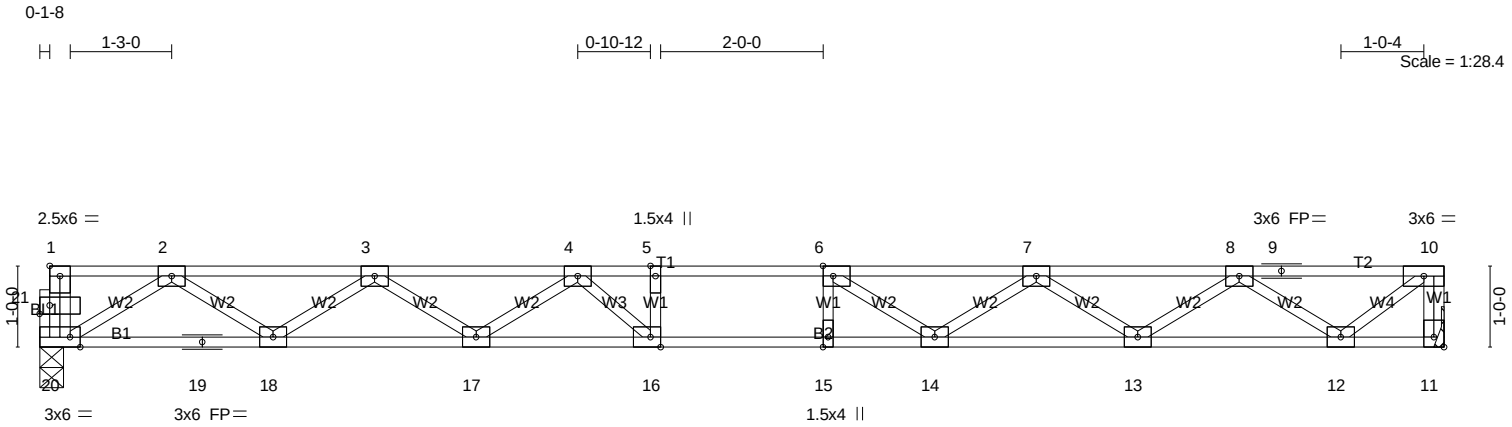

2-10-8	5-4-8	7-6-4	7-7-12	8-7-12	9-7-12	11-0-4	13-6-4	16-0-4	17-3-8
2-10-8	2-6-0	2-1-12	0-1-8	1-0-0	1-0-0	1-4-8	2-6-0	2-6-0	1-3-4

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [11:Edge,0-1-8], [16:0-1-8,Edge], [20:0-1-8,Edge], [21:0-1-8,0-1-4]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.23	15-16	>883	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.32	15-16	>643	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.05	11	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 84 lb	FT = 8%F, 4%E

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

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

REACTIONS. (lb/size) 11=623/Mechanical, 20=618/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-11=-619/0, 2-3=-1581/0, 3-4=-2523/0, 4-5=-2981/0, 5-6=-2981/0, 6-7=-2749/0, 7-8=-2010/0, 8-9=-725/0, 9-10=-725/0
BOT CHORD 19-20=0/954, 18-19=0/954, 17-18=0/2179, 16-17=0/2851, 15-16=0/2981, 14-15=0/2981, 13-14=0/2500, 12-13=0/1497
WEBS 2-20=-1114/0, 2-18=0/765, 3-18=-731/0, 3-17=0/419, 4-17=-401/0, 4-16=-87/425, 6-14=-451/0, 7-14=0/376, 7-13=-598/0, 8-13=0/626, 8-12=-942/0, 10-12=0/912

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 0 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	F11	Floor	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:35 2024 Page 1
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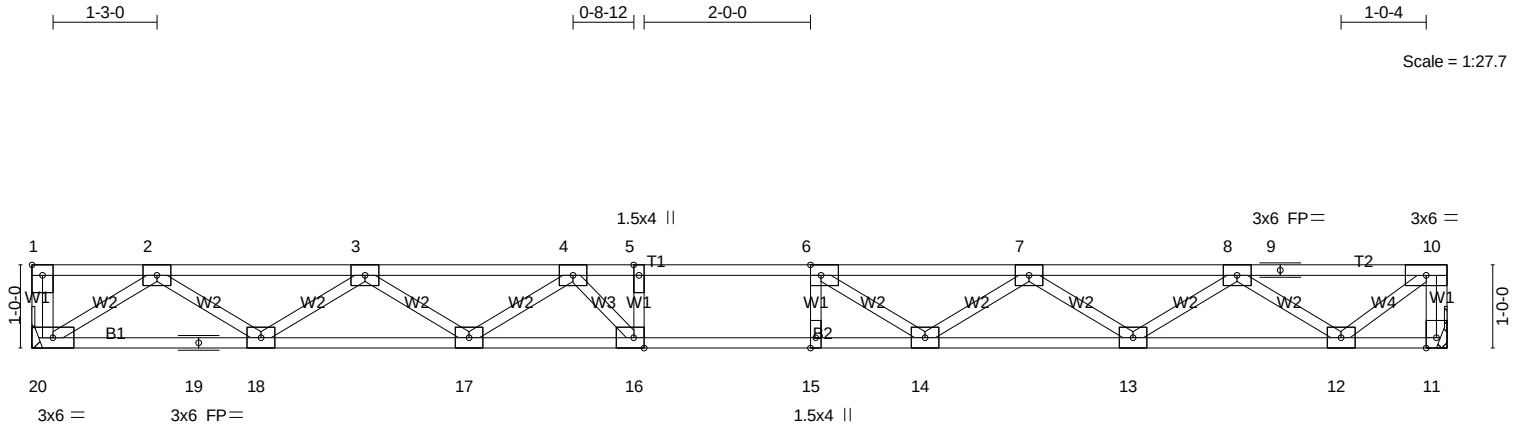

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [16:0-1-8,Edge]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.22	15	>908	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.30	15-16	>661	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.05	11	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 82 lb	FT = 8%F, 4%E

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

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

REACTIONS. (lb/size) 20=614/Mechanical, 11=614/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-11=-610/0, 2-3=-1526/0, 3-4=-2455/0, 4-5=-2901/0, 5-6=-2901/0, 6-7=-2690/0, 7-8=-1976/0, 8-9=-714/0, 9-10=-714/0
BOT CHORD 19-20=0/905, 18-19=0/905, 17-18=0/2118, 16-17=0/2783, 15-16=0/2901, 14-15=0/2901, 13-14=0/2455, 12-13=0/1474
WEBS 2-20=-1073/0, 2-18=0/758, 3-18=-723/0, 3-17=0/411, 4-17=-400/0, 4-16=-89/424, 6-14=-427/0, 7-14=0/361, 7-13=-585/0, 8-13=0/612, 8-12=-927/0, 10-12=0/899

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 0 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	F12	Floor Supported Gable	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:36 2024 Page 1
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0-1-8

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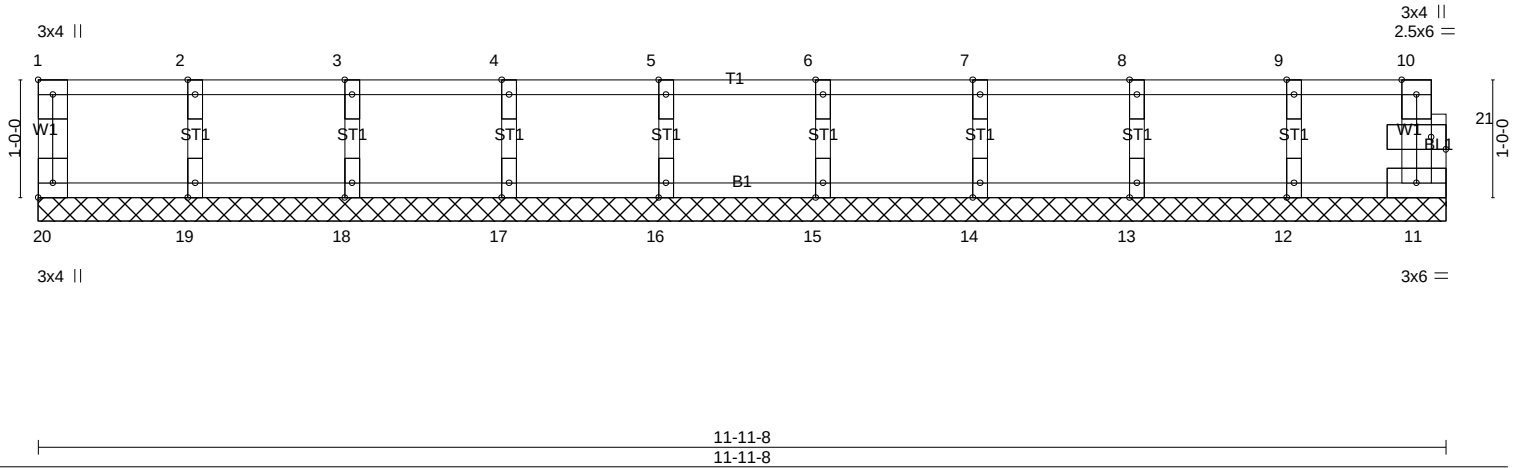

11-11-8
11-11-8

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [20:Edge,0-1-8], [21:0-1-8,0-1-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-R							Weight: 50 lb	FT = 8%F, 4%E

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

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

REACTIONS. All bearings 11-11-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

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

NOTES-
1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) All plates are 1.5x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 0 degree rotation about its center.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 1-4-0 oc.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	G01	Common Girder	1	3	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:39 2024 Page 1
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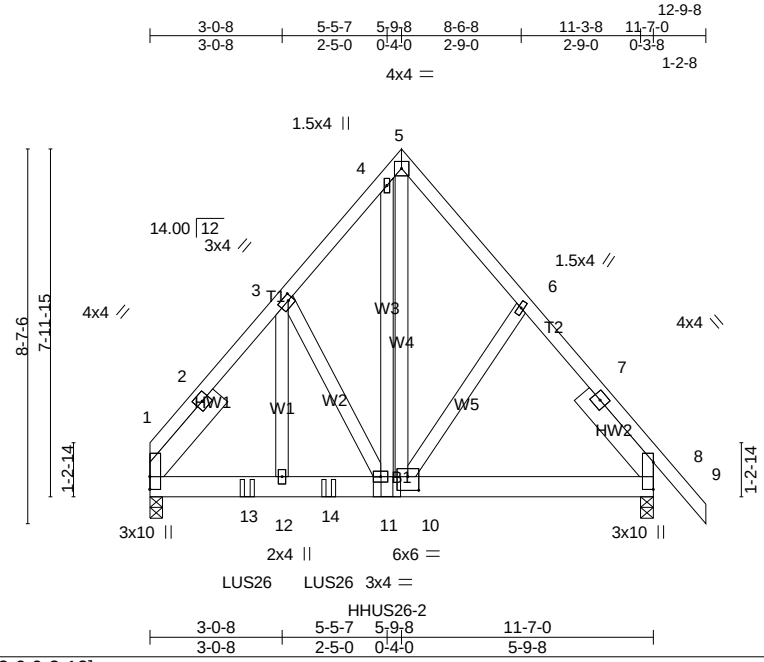

Plate Offsets (X,Y)-- [3:0-1-4,0-1-8], [10:0-3-0,0-3-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.02	11-12	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.04	11-12	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.32	Horz(CT)	0.01	8	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S								
BCDL	10.0										Weight: 329 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.1 2-5-12, Right 2x6 SP No.1 2-6-3

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

REACTIONS. (lb/size) 1=3141/0-3-8 (min. 0-1-12), 8=2257/0-3-8 (min. 0-1-8)
Max Horz 1=-180(LC 36)
Max Uplift1=-68(LC 12), 8=-332(LC 12)
Max Grav 1=3393(LC 2), 8=2344(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3623/158, 2-3=-3564/185, 3-4=-2594/452, 4-5=-1547/311, 5-6=-2476/430, 6-7=-2628/391, 7-8=-2695/380
BOT CHORD 1-13=-106/2138, 12-13=-106/2138, 12-14=-106/2138, 11-14=-106/2138, 10-11=-239/1703, 8-10=-164/1513
WEBS 3-12=0/1664, 5-10=-428/2301, 6-10=-158/373, 4-11=-193/1272, 3-11=-997/0

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 0-7-0 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) 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=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
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 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 1 and 332 lb uplift at joint 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.
12) Use Simpson Strong-Tie LUS26 (4-SD9112 Girder, 4-SD9212 Truss, Single Ply Girder) or equivalent spaced at 1-10-8 oc max. starting at 2-2-14 from the left end to 4-1-6 to connect truss(es) T02 (1 ply 2x4 SP) to back face of bottom chord.

Continued on page 2

NOTES-

13) Use Simpson Strong-Tie HHUS26-2 (14-16d Girder, 4-16d Truss) or equivalent at 5-5-7 from the left end to connect truss(es) H01 (2 ply 2x6 SP) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.

14) 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: 1-5=-43, 5-9=-43, 1-8=-20
   Concentrated Loads (lb)
      Vert: 11=-2902(B) 13=-857(B) 14=-857(B)

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	H01	Hip Girder	1	2	Job Reference (optional)

Longleaf Truss Company, West End, N.C. Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:43 2024 Page 1
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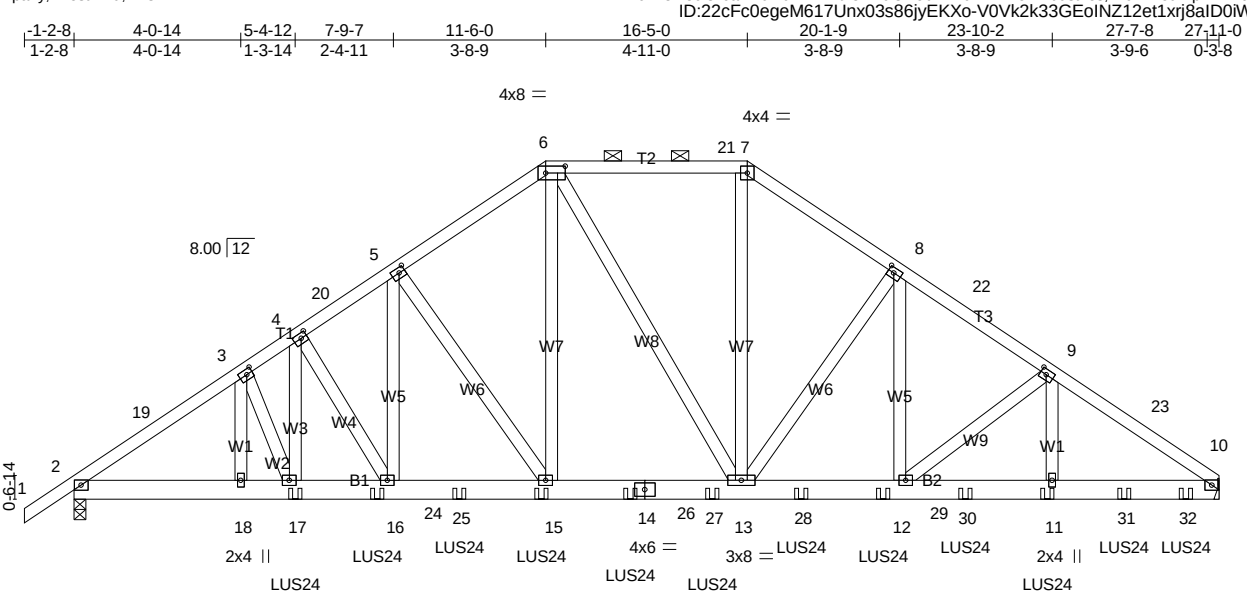

Plate Offsets (X,Y)-- [3:0-1-12,0-1-8], [4:0-1-12,0-1-8], [5:0-1-12,0-1-8], [6:0-5-12,0-2-0], [8:0-1-12,0-1-8], [9:0-1-12,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.06	13-15	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.11	13-15	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.04	10	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S								
BCDL	10.0										Weight: 429 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 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 10=2632/Mechanical, 2=2435/0-3-8 (min. 0-2-2)
Max Horz 2=161(LC 11)
Max Uplift10=-999(LC 12), 2=-679(LC 12)
Max Grav 10=3105(LC 67), 2=2727(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-4265/1063, 3-19=-4200/1077, 3-4=-4125/1115, 4-20=-3694/1069, 5-20=-3656/1080, 5-6=-3107/1000, 6-21=-2606/894, 7-21=-2606/894, 7-8=-3142/1042, 8-22=-3755/1229, 9-22=-3819/1217, 9-23=-4493/1443, 10-23=-4540/1427
BOT CHORD 2-18=-820/3438, 17-18=-820/3438, 17-24=-839/3428, 16-24=-839/3428, 16-25=-787/3138, 15-25=-787/3138, 15-26=-669/2626, 14-26=-669/2626, 14-27=-669/2626, 13-27=-669/2626, 13-28=-913/3119, 28-29=-913/3119, 12-29=-913/3119, 12-30=-1129/3644, 11-30=-1129/3644, 11-31=-1129/3644, 31-32=-1129/3644, 10-32=-1129/3644
WEBS 5-16=-176/959, 5-15=-1050/216, 6-15=-439/1517, 7-13=-522/1499, 8-13=-1022/371, 8-12=-358/969, 9-12=-689/273, 9-11=-276/718, 4-17=-98/685, 4-16=-635/97

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 0-9-0 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=12ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
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 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
8) Provide adequate drainage to prevent water ponding.
9) All plates are 3x4 MT20 unless otherwise indicated.
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.

Continued on page 2

NOTES-

12) Refer to girder(s) for truss to truss connections.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 999 lb uplift at joint 10 and 679 lb uplift at joint 2.
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.
16) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-2-0 oc max. starting at 5-4-12 from the left end to 27-1-4 to connect truss(es) H02 (1 ply 2x6 SP), H03 (1 ply 2x4 SP), H04 (1 ply 2x4 SP), H05 (1 ply 2x4 SP), J03 (1 ply 2x4 SP), T03 (1 ply 2x4 SP) to back face of bottom chord.
17) 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: 1-6=-43, 6-7=-53, 7-10=-43, 2-10=-20
   Concentrated Loads (lb)
      Vert: 15=-236(B) 11=-233(B) 17=-660(B) 24=-228(B) 25=-222(B) 26=-233(B) 27=-233(B) 28=-233(B) 29=-233(B) 30=-233(B) 31=-233(B) 32=-235(B)

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	H02	Half Hip Girder	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:45 2024 Page 1
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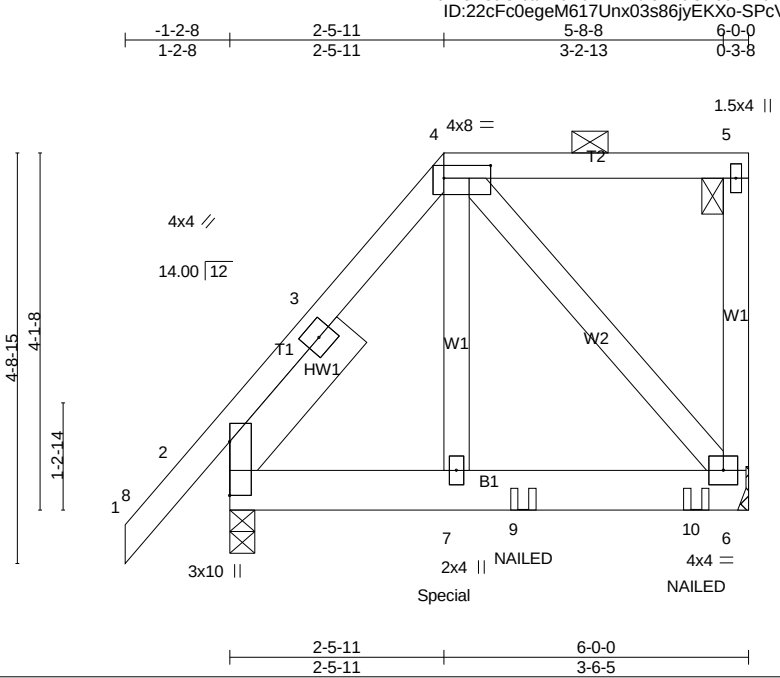

Plate Offsets (X,Y)-- [4:0-6-8,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.01	6-7	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.01	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P							Weight: 50 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.1 2-1-14

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 6=591/Mechanical, 2=456/0-3-8 (min. 0-1-8)
Max Horz 2=122(LC 9)
Max Uplift 6=-131(LC 9), 2=-104(LC 12)
Max Grav 6=680(LC 31), 2=594(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-524/88, 3-4=-437/99
BOT CHORD 7-9=-107/257, 9-10=-107/257, 6-10=-107/257
WEBS 4-7=-99/465, 4-6=-382/123

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, 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.
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
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.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 6 and 104 lb uplift at joint 2.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 190 lb down and 114 lb up at 2-5-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	H02	Half Hip Girder	1	1	Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-43, 4-5=-53, 2-6=-20
   Concentrated Loads (lb)
      Vert: 7=-190(F) 9=-198(F) 10=-204(F)

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	H03	Half Hip	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C. Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:47 2024 Page 1
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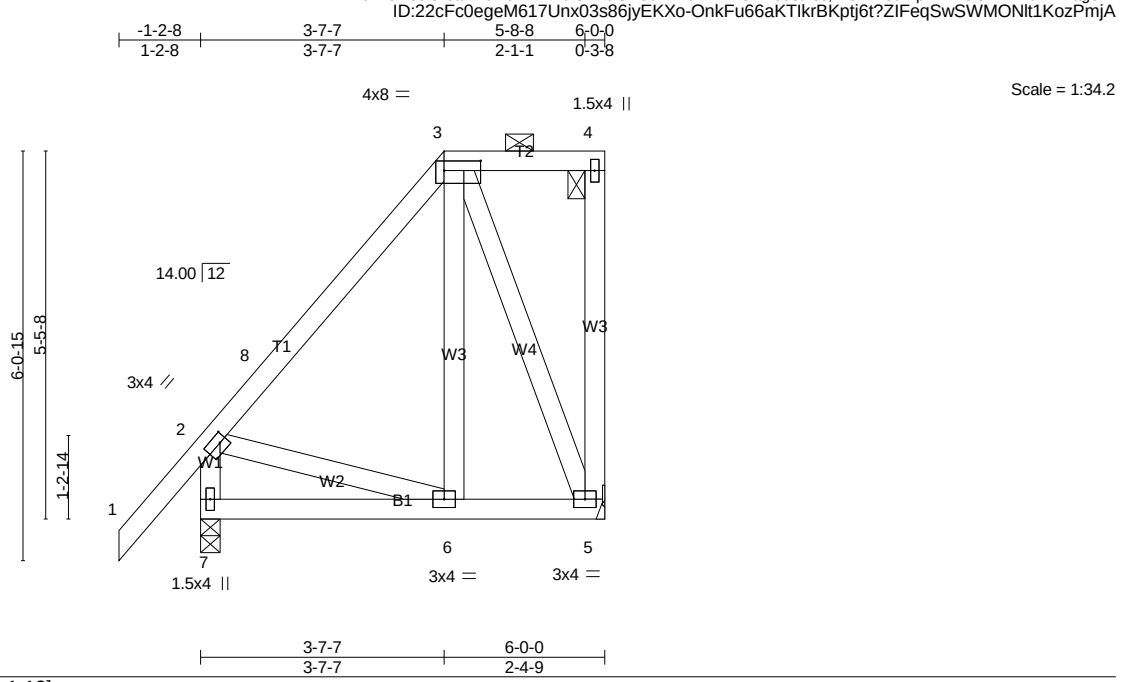

Plate Offsets (X,Y)-- [2:0-1-4,0-1-8], [3:0-6-8,0-1-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.01	6-7	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.00	5	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 53 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, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 5=191/Mechanical, 7=250/0-3-8 (min. 0-1-8)
Max Horz 7=174(LC 9)
Max Uplift 5=-64(LC 9), 7=-25(LC 12)
Max Grav 5=262(LC 35), 7=434(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-403/43

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, 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.
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
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.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 5 and 25 lb uplift at joint 7.
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	RAY WICKERS
P24040749	H04	Half Hip	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:49 2024 Page 1
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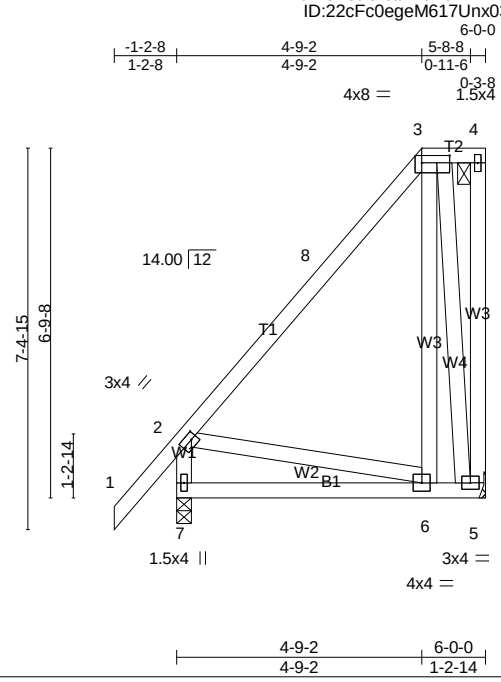

Plate Offsets (X,Y)-- [2:0-1-4,0-1-8], [3:0-6-8,0-1-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.02	6-7	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.03	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	-0.00	5	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P								
BCDL	10.0										Weight: 61 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, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 5=183/Mechanical, 7=246/0-3-8 (min. 0-1-8)
Max Horz 7=214(LC 9)
Max Uplift5=-100(LC 9), 7=-19(LC 12)
Max Grav 5=287(LC 36), 7=456(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-280/32, 2-7=-416/42
WEBS 3-5=-303/70

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, 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 1.00 times flat roof load of 11.6 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.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 5 and 19 lb uplift at joint 7.
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	RAY WICKERS
P24040749	H05	Half Hip	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:50 2024 Page 1
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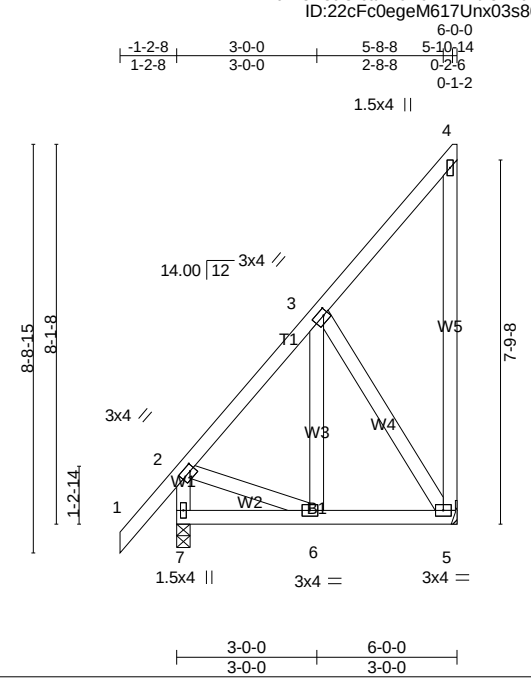

Plate Offsets (X,Y)-- [2:0-1-4,0-1-8], [3:0-1-4,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.00	6-7	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.00	5	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 56 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. (lb/size) 5=173/Mechanical, 7=245/0-3-8 (min. 0-1-8)
Max Horz 7=251(LC 9)
Max Uplift5=-139(LC 9), 7=-23(LC 13)
Max Grav 5=303(LC 24), 7=361(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-266/56, 2-7=-338/36

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 5 and 23 lb uplift at joint 7.
9) 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	RAY WICKERS
P24040749	H06	Hip	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:52 2024 Page 1
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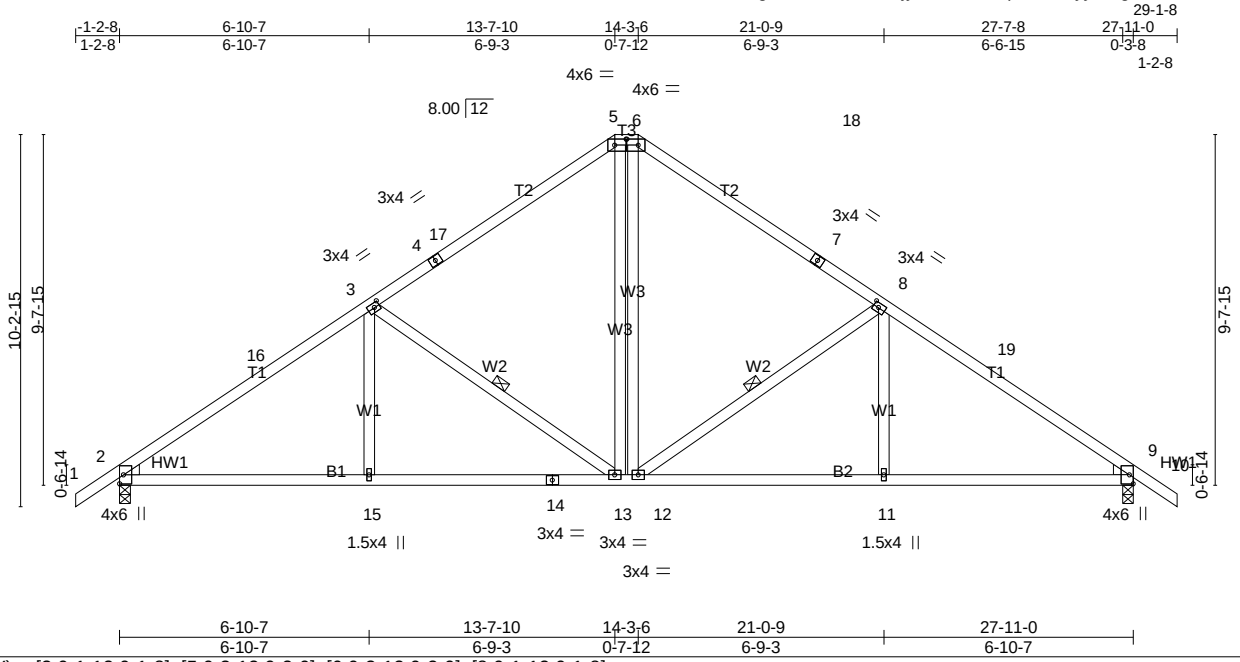

Plate Offsets (X,Y)-- [3:0-1-12,0-1-8], [5:0-3-12,0-2-0], [6:0-3-12,0-2-0], [8:0-1-12,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.06	13	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.13	13-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.06	9	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 162 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 4-2-14 oc purlins, except
2-0-0 oc purlins (5-10-8 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-13, 8-12

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

REACTIONS. (lb/size) 2=933/0-3-8 (min. 0-2-0), 9=933/0-3-8 (min. 0-2-0)
Max Horz 2=193(LC 11)
Max Uplift 2=-33(LC 12), 9=-33(LC 12)
Max Grav 2=1279(LC 35), 9=1280(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-16=-1864/2, 3-16=-1668/27, 3-4=-1347/52, 4-17=-1245/63, 5-17=-1181/93, 5-6=-988/108, 6-18=-1181/93, 7-18=-1245/63, 7-8=-1347/52, 8-19=-1668/27, 9-19=-1864/2
BOT CHORD 2-15=0/1456, 14-15=0/1456, 13-14=0/1456, 12-13=0/988, 11-12=0/1456, 9-11=0/1456
WEBS 3-15=0/302, 3-13=-585/78, 5-13=-2/423, 6-12=-2/423, 8-12=-586/78, 8-11=0/302

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, 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 1.00 times flat roof load of 11.6 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.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 2 and 33 lb uplift at joint 9.
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	RAY WICKERS
P24040749	H07	Hip Girder	1	2	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:56 2024 Page 1
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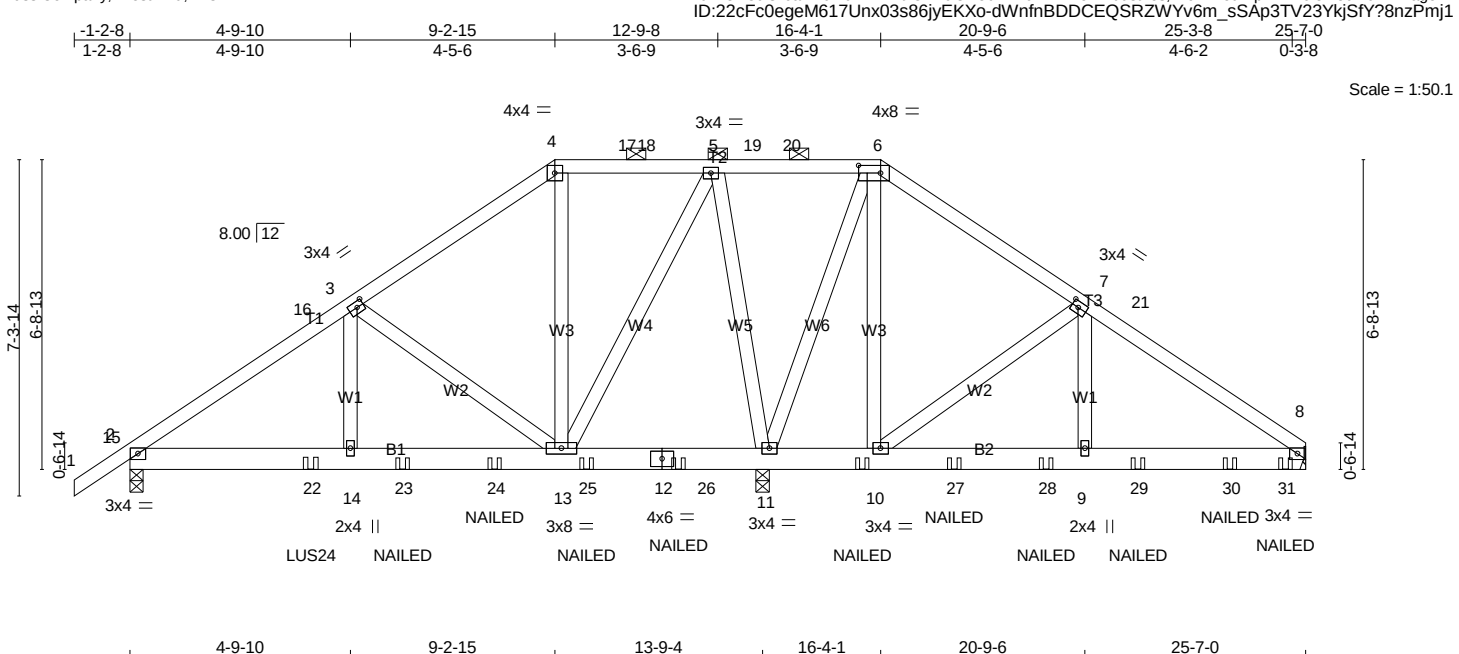

Plate Offsets (X,Y)-- [3:0-1-12,0-1-8], [6:0-5-12,0-2-0], [7:0-1-12,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.01	14	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.01	8	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 355 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 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 8=581/Mechanical, 2=846/0-3-8 (min. 0-1-8), 11=2142/0-3-8 (min. 0-1-15)
Max Horz 2=130(LC 11)
Max Uplift 8=-302(LC 12), 2=-192(LC 12), 11=-841(LC 12)
Max Grav 8=903(LC 67), 2=1025(LC 35), 11=2436(LC 66)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-16=-1327/255, 3-16=-1129/272, 3-4=-436/169, 4-17=-298/161, 17-18=-298/162, 5-18=-297/162, 5-19=-68/432, 19-20=-68/432, 6-20=-68/432, 7-21=-722/268, 8-21=-856/249
BOT CHORD 2-22=-199/993, 14-22=-199/993, 14-23=-199/993, 23-24=-199/993, 13-24=-199/993, 13-25=-295/149, 12-25=-295/149, 12-26=-295/149, 11-26=-295/149, 10-27=-169/631, 27-28=-169/631, 9-28=-169/631, 9-29=-169/631, 29-30=-169/631, 30-31=-169/631, 8-31=-169/631
WEBS 3-14=-122/662, 3-13=-901/197, 5-13=-339/1111, 5-11=-1143/347, 6-11=-1033/338, 6-10=-295/755, 7-10=-888/318, 7-9=-245/671

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 0-9-0 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=12ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
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 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
8) Provide adequate drainage to prevent water ponding.
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) Refer to girder(s) for truss to truss connections.

Continued on page 2

NOTES-

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 302 lb uplift at joint 8, 192 lb uplift at joint 2 and 841 lb uplift at joint 11.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 3-11-4 from the left end to connect truss(es) H10 (1 ply 2x6 SP) to front face of bottom chord.
16) Fill all nail holes where hanger is in contact with lumber.
17) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
18) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 80 lb up at 13-11-4 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: 1-4=-43, 4-6=-53, 6-8=-43, 2-8=-20
   Concentrated Loads (lb)
      Vert: 11=-51 10=-168(F) 22=-388(F) 23=-168(F) 24=-173(F) 25=-168(F) 26=-168(F) 27=-110(F) 28=-110(F) 29=-110(F) 30=-110(F) 31=-116(F)

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	H08	Half Hip	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:57 2024 Page 1
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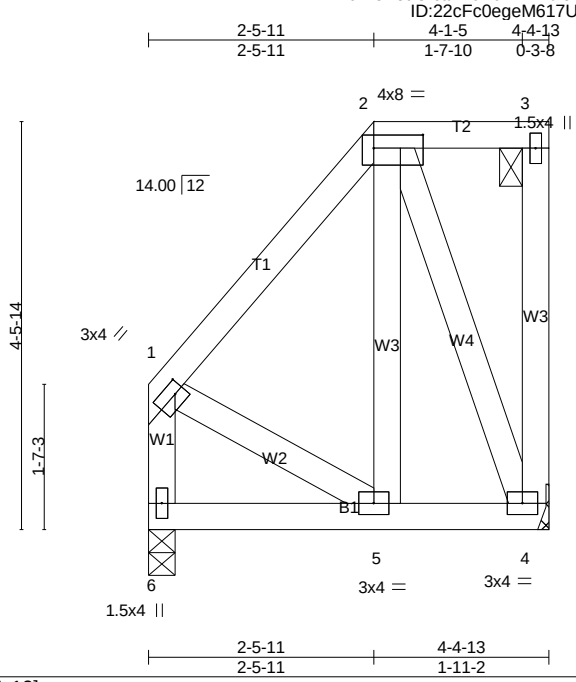

Plate Offsets (X,Y)-- [1:0-1-4,0-1-8], [2:0-6-8,0-1-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.00	5	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 39 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 4-4-13 oc purlins, except end verticals, and 2-0-0 oc purlins: 2-3.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 4=144/Mechanical, 6=134/0-3-8 (min. 0-1-8)
Max Horz 6=124(LC 9)
Max Uplift 4=-60(LC 9)
Max Grav 4=204(LC 34), 6=213(LC 37)

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

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, 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.
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 4.
9) 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.
10) 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	RAY WICKERS
P24040749	H09	Half Hip	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:31:58 2024 Page 1
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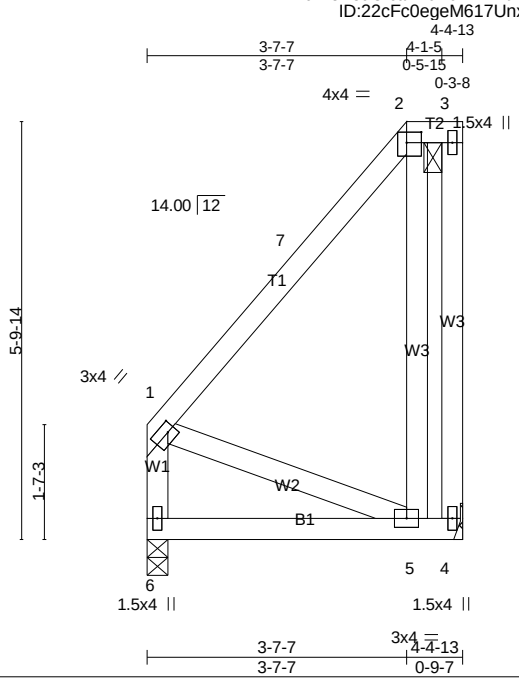

Scale: 3/8"=1'

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.01	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 39 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 4-4-13 oc purlins, except end verticals, and 2-0-0 oc purlins: 2-3.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 4=136/Mechanical, 6=130/0-3-8 (min. 0-1-8)
Max Horz 6=164(LC 9)
Max Uplift 4=-103(LC 9), 6=-4(LC 8)
Max Grav 4=240(LC 35), 6=263(LC 37)

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

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, 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.
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 4 and 4 lb uplift at joint 6.
9) 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.
10) 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	RAY WICKERS
P24040749	H10	Half Hip Girder	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:00 2024 Page 1
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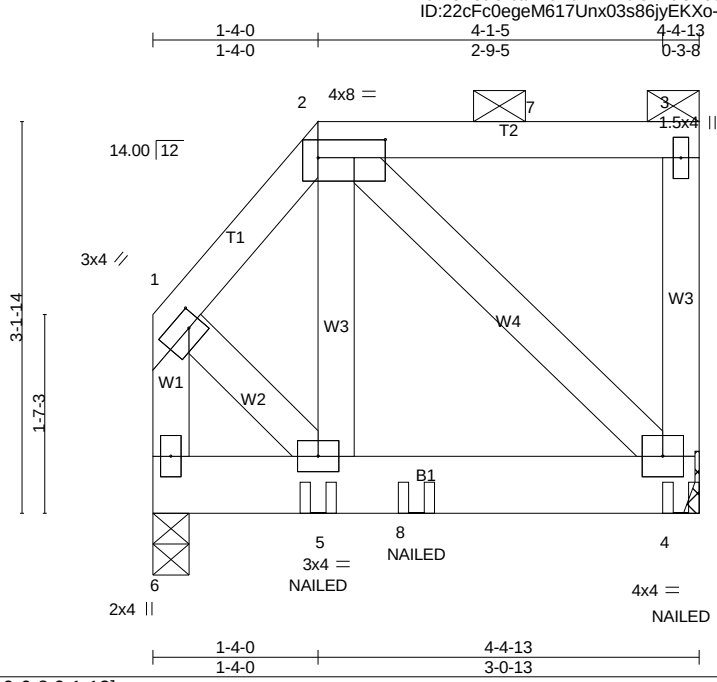

Plate Offsets (X,Y)-- [1:0-1-4,0-1-8], [2:0-6-8,0-1-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.00	5	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 34 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 4-4-13 oc purlins, except end verticals, and 2-0-0 oc purlins: 2-3.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 4=336/Mechanical, 6=174/0-3-8 (min. 0-1-8)
Max Horz 6=81(LC 9)
Max Uplift 4=-92(LC 9), 6=-61(LC 12)
Max Grav 4=408(LC 30), 6=224(LC 73)

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

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, 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.
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 4 and 61 lb uplift at joint 6.
9) 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.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-43, 2-3=-53, 4-6=-20

Continued on page 2

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 4=-140(B) 5=51(B) 8=-132(B)

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	J01	Jack-Closed	12	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:01 2024 Page 1
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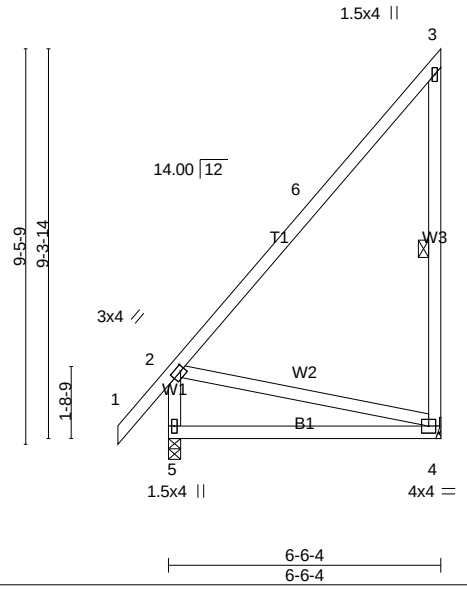

Plate Offsets (X,Y)-- [2:0-1-4,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.08	4-5	>946	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.16	4-5	>473	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 52 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.
WEBS 1 Row at midpt 3-4

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

REACTIONS. (lb/size) 5=261/0-3-8 (min. 0-1-8), 4=190/Mechanical
Max Horz 5=282(LC 9)
Max Uplift 5=-25(LC 13), 4=-168(LC 9)
Max Grav 5=401(LC 25), 4=342(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-338/62
BOT CHORD 4-5=-278/192

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 5 and 168 lb uplift at joint 4.
9) 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	RAY WICKERS
P24040749	J02	Jack-Closed Supported Gable	1	1	Job Reference (optional)

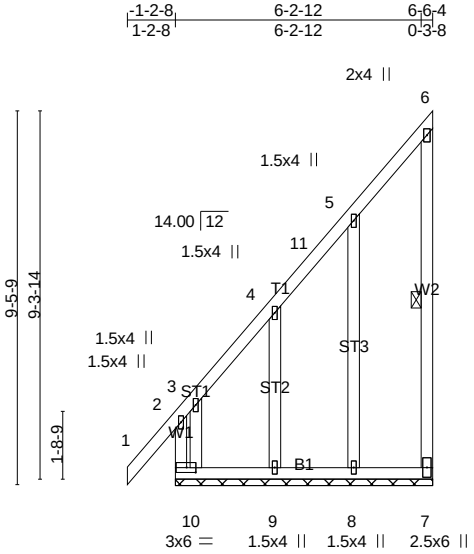

Plate Offsets (X,Y)-- [10:0-2-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	0.01	1-2	n/r	120	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	0.00	1-2	n/r	120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	-0.00	7	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-R								
BCDL	10.0										Weight: 61 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.
WEBS	1 Row at midpt 6-7

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

REACTIONS. All bearings 6-6-4.
(lb) - Max Horz 10=282(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 8 except 10=-171(LC 10), 7=-120(LC 11), 9=-300(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 7, 8 except 10=399(LC 25), 9=347(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-304/335, 3-4=-344/252
WEBS 3-10=-610/428

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 10=171, 7=120, 9=300.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	J03	Jack-Closed	2	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:04 2024 Page 1
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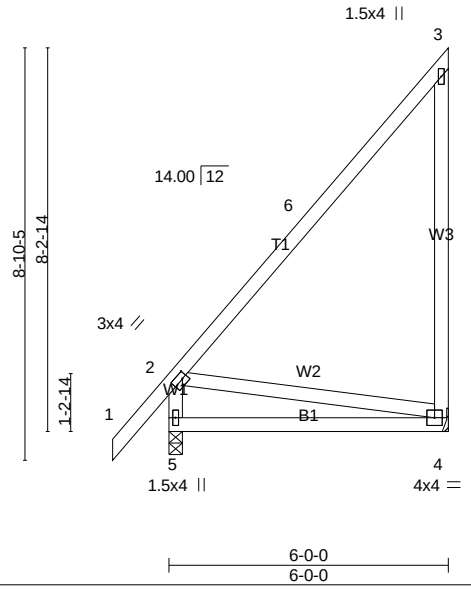

Plate Offsets (X,Y)-- [2:0-1-4,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.06	4-5	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.11	4-5	>615	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P								
BCDL	10.0										Weight: 46 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. (lb/size) 5=245/0-3-8 (min. 0-1-8), 4=173/Mechanical
Max Horz 5=251(LC 9)
Max Uplift 5=-23(LC 13), 4=-139(LC 9)
Max Grav 5=361(LC 25), 4=303(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-304/57

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 4=139.
9) 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	RAY WICKERS
P24040749	J04	Jack-Closed	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:05 2024 Page 1
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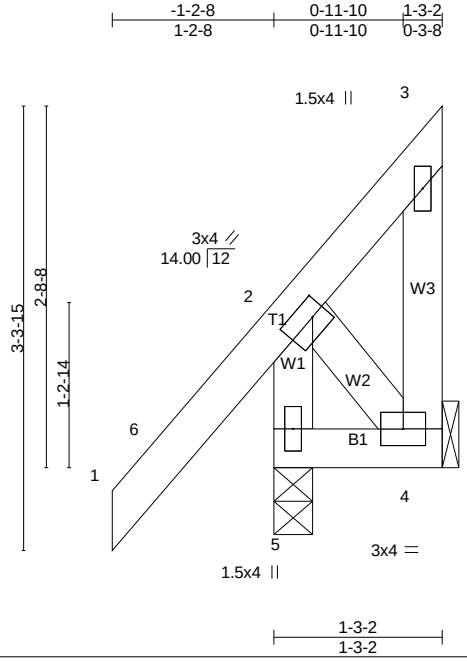

Plate Offsets (X,Y)-- [2:0-1-4,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	5	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Sheathed or 1-3-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 5=130/0-3-8 (min. 0-1-8), 4=-10/Mechanical
Max Horz 5=100(LC 11)
Max Uplift 5=-56(LC 12), 4=-77(LC 11)
Max Grav 5=188(LC 25), 4=48(LC 10)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
9) 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	RAY WICKERS
P24040749	J05	Jack-Closed	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:07 2024 Page 1
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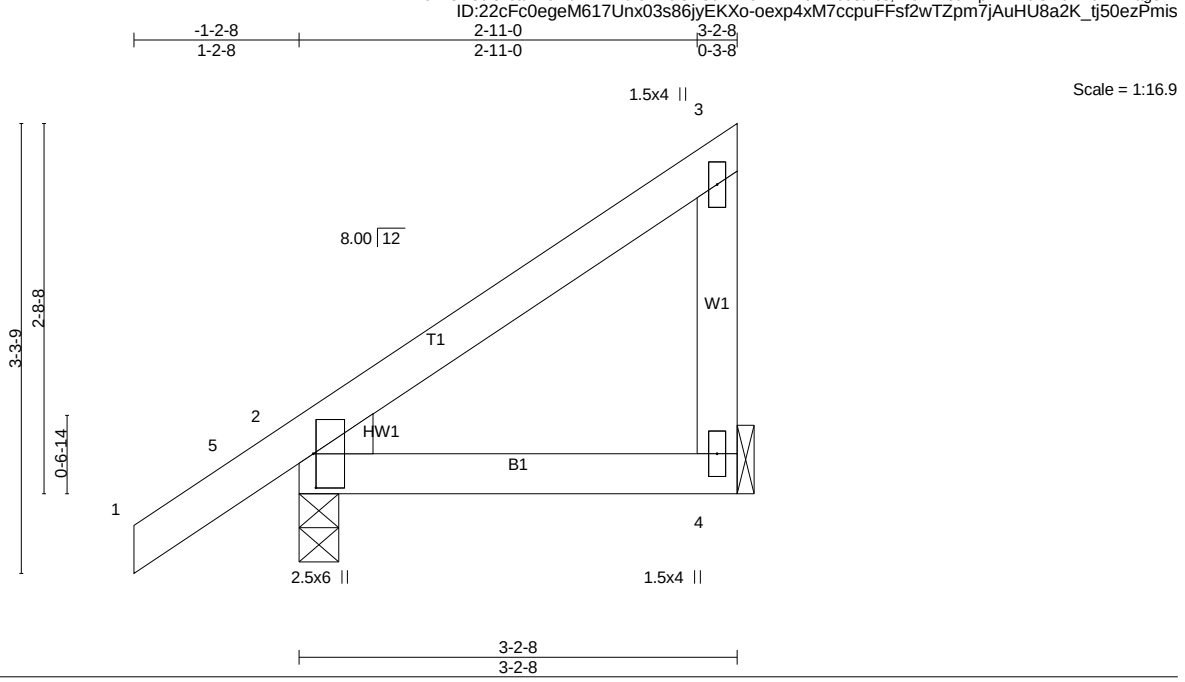

Plate Offsets (X,Y)-- [2:0-3-0,0-0-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	2-4	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 17 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 3-2-8 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. (lb/size) 4=78/Mechanical, 2=164/0-3-8 (min. 0-1-8)
Max Horz 2=76(LC 9)
Max Uplift 4=-17(LC 9), 2=-39(LC 12)
Max Grav 4=116(LC 17), 2=217(LC 2)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
9) 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	RAY WICKERS
P24040749	J06	Jack-Closed	2	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C. Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:08 2024 Page 1
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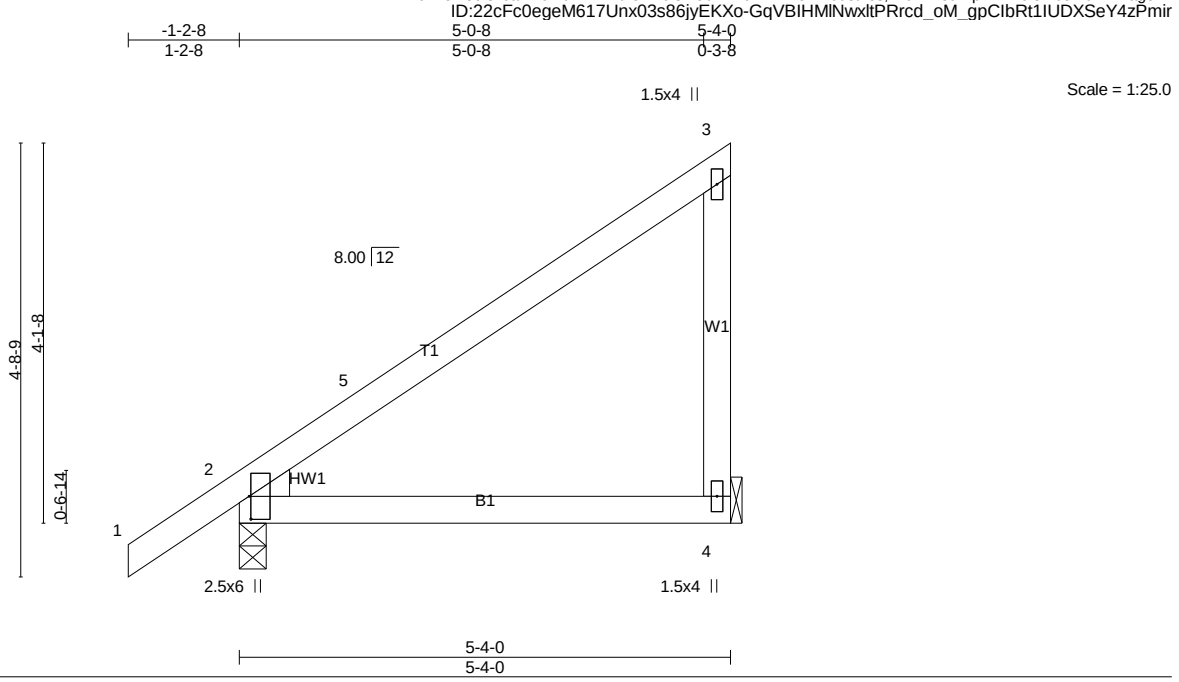

Plate Offsets (X,Y)-- [2:0-3-0,0-0-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.03	2-4	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.07	2-4	>892	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Sheathed or 5-4-0 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. (lb/size) 4=151/Mechanical, 2=225/0-3-8 (min. 0-1-8)
Max Horz 2=119(LC 11)
Max Uplift 4=-24(LC 9), 2=-33(LC 12)
Max Grav 4=218(LC 17), 2=294(LC 2)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
9) 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	RAY WICKERS
P24040749	J07	Jack-Closed Girder	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:09 2024 Page 1
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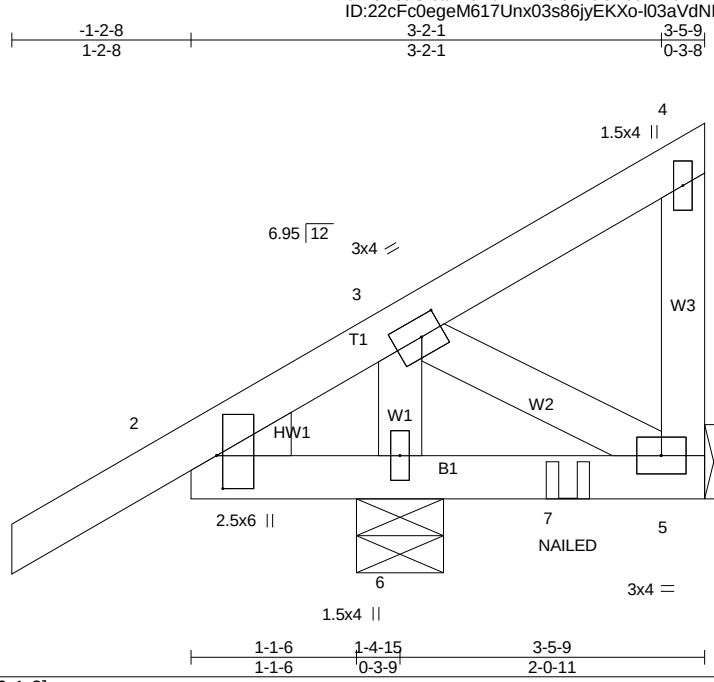

Plate Offsets (X,Y)-- [2:0-2-11,0-0-8], [3:0-1-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	0.00	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	0.00	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	-0.00	5	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P							Weight: 21 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Sheathed or 3-5-9 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. (lb/size) 5=-68/Mechanical, 6=261/0-7-1 (min. 0-1-8)
Max Horz 6=71(LC 11)
Max Uplift 5=-169(LC 25), 6=-155(LC 12)
Max Grav 5=81(LC 43), 6=352(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-101/272
WEBS 3-6=-359/112

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=169, 6=155.
9) 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.
10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-43, 2-5=-20

Continued on page 2

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=69(B)

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	J08	Jack-Closed Girder	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:11 2024 Page 1
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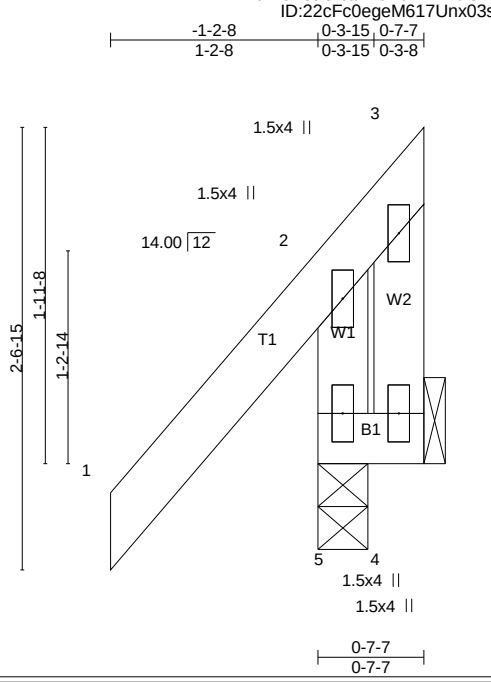

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	0.00	5	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	5	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-R							Weight: 9 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Sheathed or 0-7-7 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. (lb/size) 5=190/0-3-8 (min. 0-1-8), 4=-111/Mechanical
Max Horz 5=77(LC 11)
Max Uplift 5=-117(LC 12), 4=-201(LC 25)
Max Grav 5=283(LC 17), 4=84(LC 12)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=117, 4=201.
9) 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	RAY WICKERS
P24040749	J09	Jack-Closed	3	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:12 2024 Page 1
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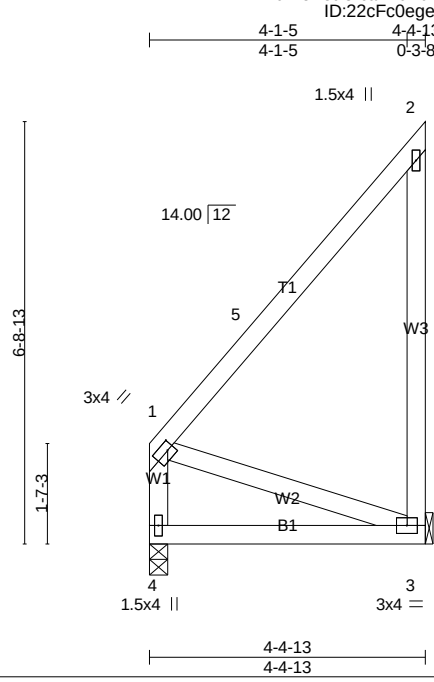

Plate Offsets (X,Y)-- [1:0-1-4,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.01	3-4	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.03	3-4	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 34 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 4-4-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 4=130/0-3-8 (min. 0-1-8), 3=130/Mechanical
Max Horz 4=184(LC 9)
Max Uplift 4=-15(LC 8), 3=-127(LC 9)
Max Grav 4=236(LC 24), 3=240(LC 23)

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

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=127.
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	RAY WICKERS
P24040749	J10	Jack-Closed Supported Gable	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:13 2024 Page 1
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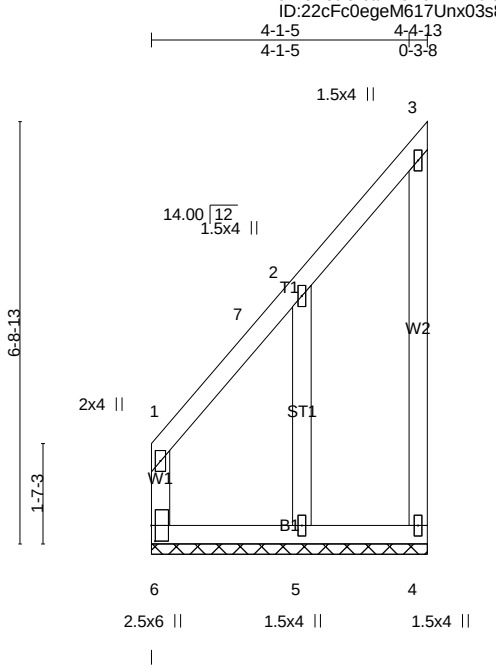

Plate Offsets (X,Y)-- [6:0-3-0,0-0-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 34 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 4-4-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 6=58/4-4-13 (min. 0-1-8), 4=42/4-4-13 (min. 0-1-8), 5=159/4-4-13 (min. 0-1-8)
Max Horz 6=184(LC 9)
Max Uplift 6=-110(LC 10), 4=-53(LC 11), 5=-156(LC 9)
Max Grav 6=224(LC 9), 4=75(LC 25), 5=306(LC 23)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 6=110, 5=156.
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	RAY WICKERS
P24040749	J11	Jack-Closed	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:14 2024 Page 1
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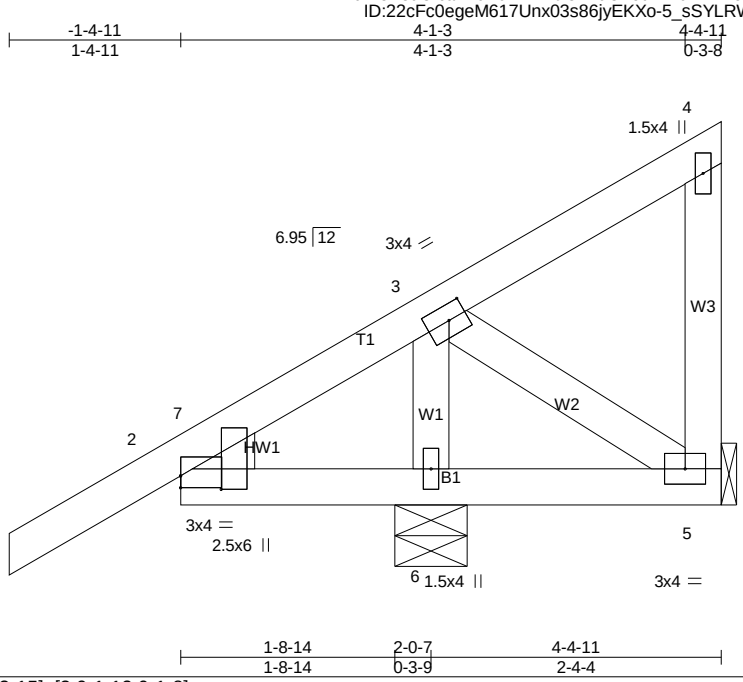

Plate Offsets (X,Y)-- [2:0-0-0,0-1-3], [2:0-1-5,0-3-15], [3:0-1-12,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	0.00	6	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.00	5	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 26 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 4-4-11 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. (lb/size) 5=-63/Mechanical, 6=391/0-7-1 (min. 0-1-8)
Max Horz 6=89(LC 11)
Max Uplift 5=-96(LC 25), 6=-123(LC 12)
Max Grav 5=54(LC 12), 6=513(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-107/254, 3-7=-105/317
WEBS 3-5=-78/283, 3-6=-446/129

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 6=123.
9) 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	RAY WICKERS
P24040749	J12	Jack-Closed	2	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:15 2024 Page 1
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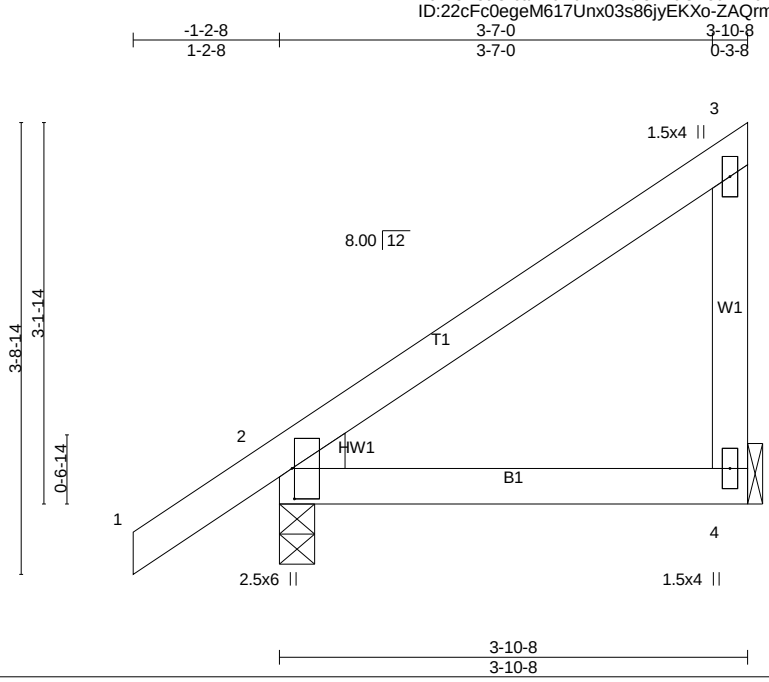

Plate Offsets (X,Y)-- [2:0-3-0,0-0-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.01	2-4	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	2-4	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Sheathed or 3-10-8 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. (lb/size) 4=102/Mechanical, 2=182/0-3-8 (min. 0-1-8)
Max Horz 2=90(LC 11)
Max Uplift 4=-19(LC 9), 2=-37(LC 12)
Max Grav 4=152(LC 17), 2=240(LC 2)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
9) 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	RAY WICKERS
P24040749	M01	Monopitch Supported Gable	1	1	Job Reference (optional)

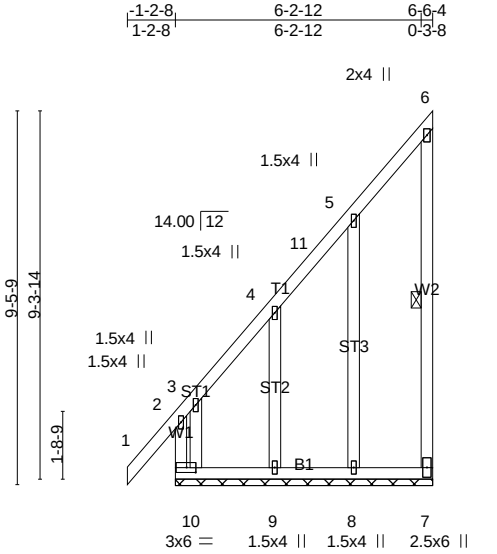

Plate Offsets (X,Y)-- [10:0-2-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	0.01	1-2	n/r	120	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	0.00	1-2	n/r	120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	-0.00	7	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-R								
BCDL	10.0										Weight: 61 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.
WEBS	1 Row at midpt 6-7

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

REACTIONS. All bearings 6-6-4.
(lb) - Max Horz 10=282(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 8 except 10=-171(LC 10), 7=-120(LC 11), 9=-300(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 7, 8 except 10=399(LC 25), 9=347(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-304/335, 3-4=-344/252
WEBS 3-10=-610/428

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 10=171, 7=120, 9=300.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	M02	Monopitch	6	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:18 2024 Page 1
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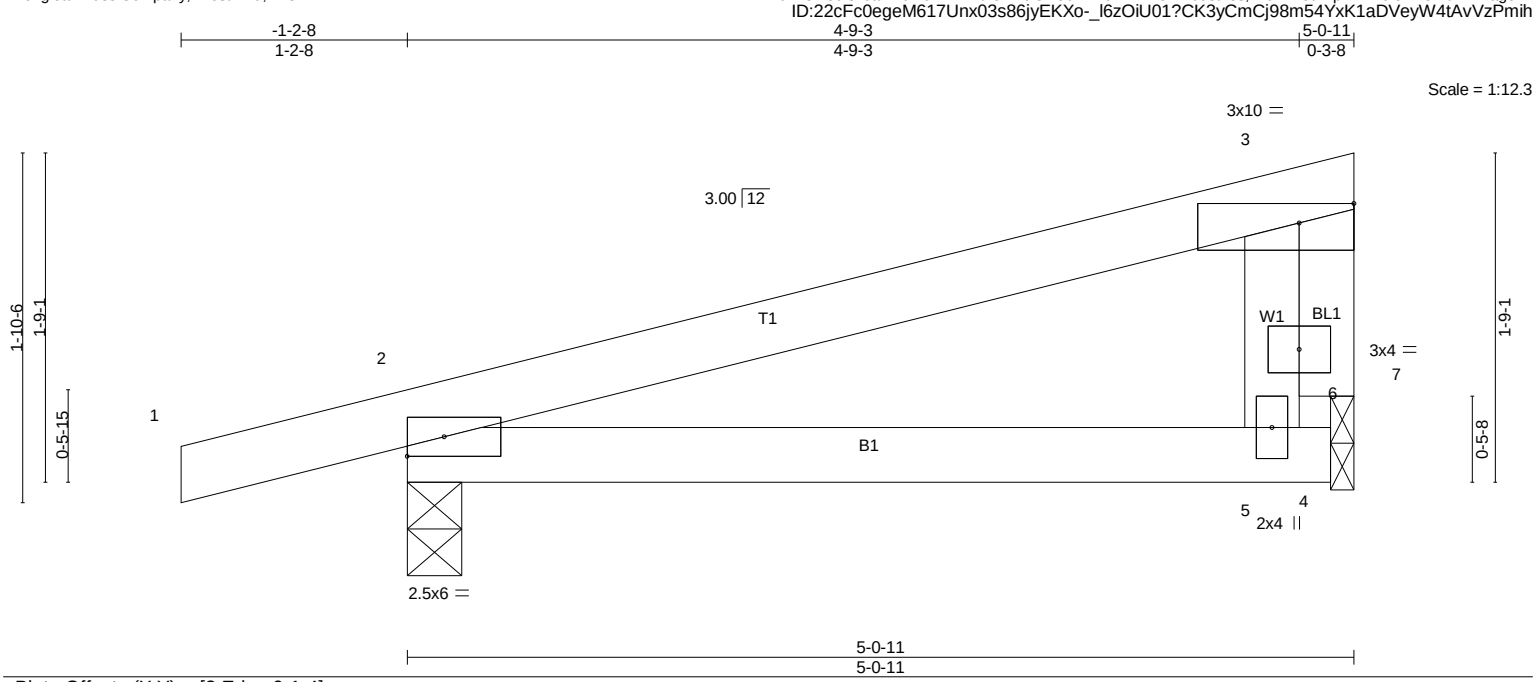

Plate Offsets (X,Y)-- [3:Edge,0-1-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.01	2-5	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	2-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-R							Weight: 20 lb	FT = 20%
BCDL	10.0											

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 5-0-11 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 2=219/0-3-8 (min. 0-1-8), 7=128/0-1-8 (min. 0-1-8)
Max Horz 2=30(LC 12)
Max Uplift2=-34(LC 12)
Max Grav 2=289(LC 17), 7=161(LC 17)

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

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
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) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	M04	Monopitch Supported Gable	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:19 2024 Page 1
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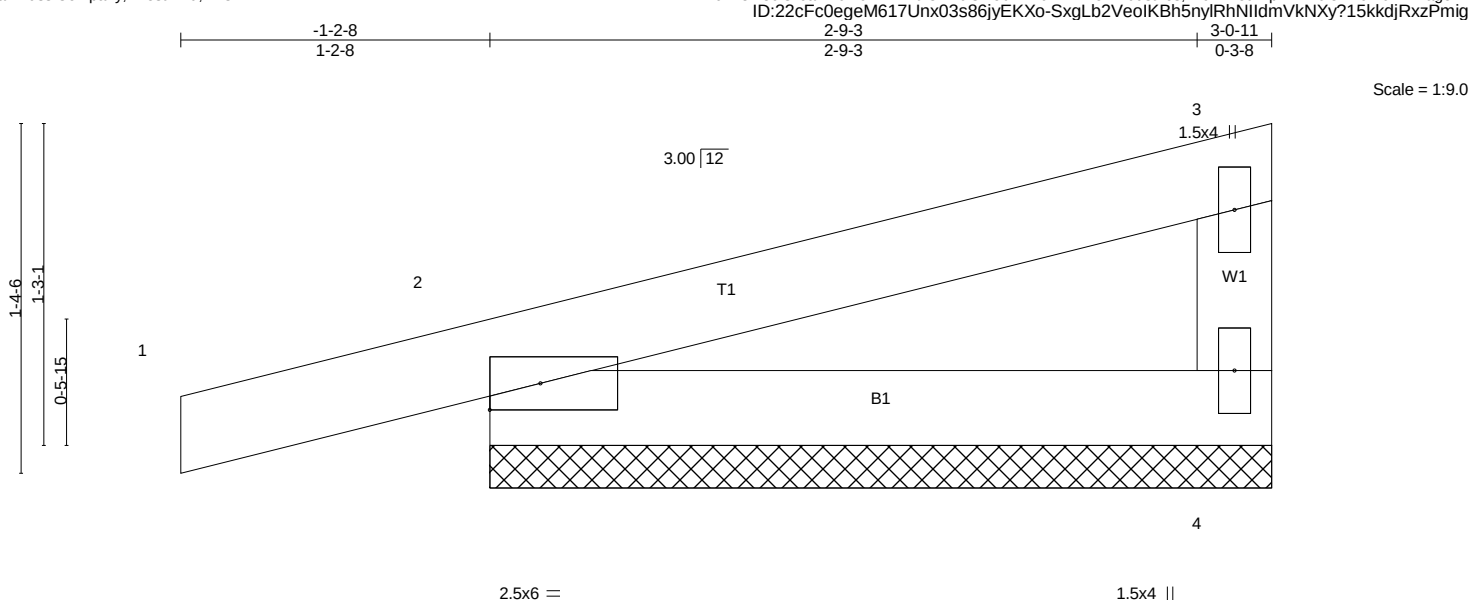

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	1	n/r	120	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	1	n/r	120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 12 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 3-0-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 4=81/3-0-11 (min. 0-1-8), 2=155/3-0-11 (min. 0-1-8)
Max Horz 2=27(LC 9)
Max Uplift2=-35(LC 12)
Max Grav 4=101(LC 2), 2=204(LC 2)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	M05	Monopitch Supported Gable	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:20 2024 Page 1
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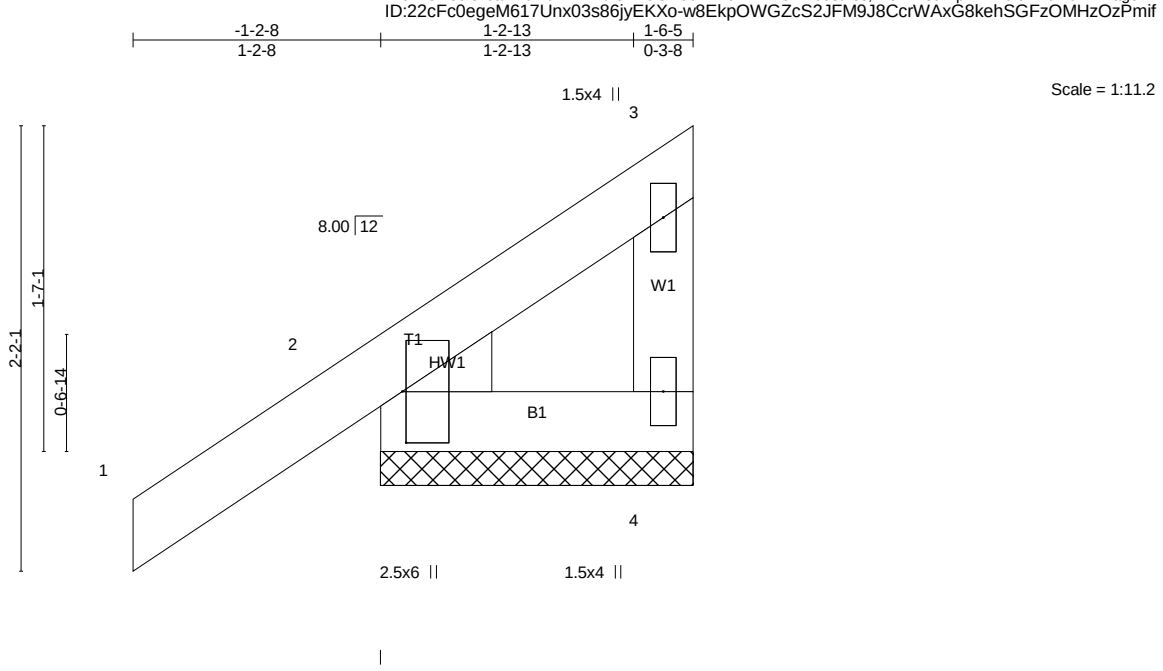

Plate Offsets (X,Y)-- [2:0-3-0,0-0-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	1	n/r	120	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	1	n/r	120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 10 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 1-6-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 4=21/1-6-5 (min. 0-1-8), 2=118/1-6-5 (min. 0-1-8)
Max Horz 2=43(LC 9)
Max Uplift 4=-9(LC 9), 2=-45(LC 12)
Max Grav 4=31(LC 7), 2=168(LC 17)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
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	RAY WICKERS
P24040749	PB01	Piggyback	1	5	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:21 2024 Page 1
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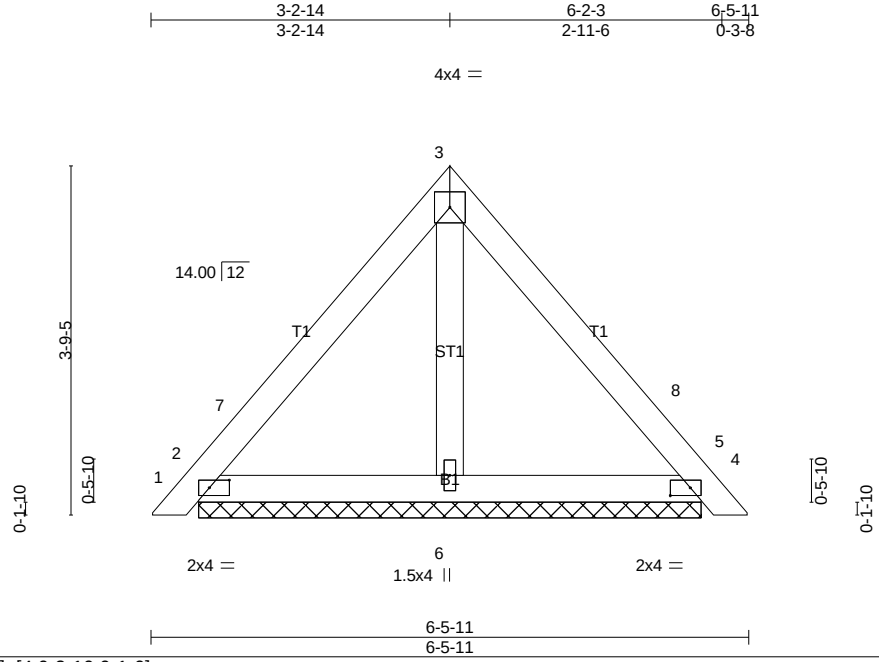

Plate Offsets (X,Y)-- [2:0-2-10,0-1-0], [4:0-2-10,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	0.00	4	n/r	120	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	0.00	4	n/r	120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P							Weight: 136 lb	FT = 20%
BCDL	10.0											

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

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

REACTIONS. (lb/size) 2=120/5-5-5 (min. 0-1-8), 4=120/5-5-5 (min. 0-1-8), 6=130/5-5-5 (min. 0-1-8)
Max Horz 2=-81(LC 10)
Max Uplift 2=-26(LC 12), 4=-26(LC 12)
Max Grav 2=160(LC 2), 4=160(LC 2), 6=165(LC 7)

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

NOTES-
1) 5-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.
Attach TC&BC w/1/2" diam. bolts(ASTM A-307) in the center of the member w/washers at 4-0-0 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=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
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 1.00 times flat roof load of 11.6 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
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) 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	RAY WICKERS
P24040749	PB02	Piggyback	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:22 2024 Page 1
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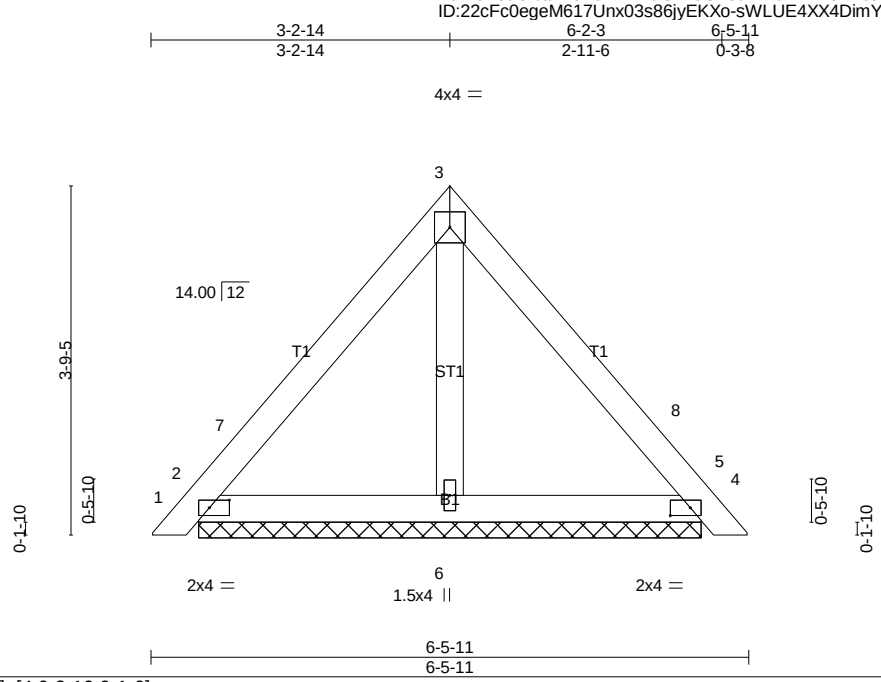

Plate Offsets (X,Y)-- [2:0-2-10,0-1-0], [4:0-2-10,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	0.00	5	n/r	120	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	5	n/r	120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 27 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. (lb/size) 2=120/5-5-5 (min. 0-1-8), 4=120/5-5-5 (min. 0-1-8), 6=130/5-5-5 (min. 0-1-8)
Max Horz 2=-81(LC 10)
Max Uplift2=-26(LC 12), 4=-26(LC 12)
Max Grav 2=160(LC 2), 4=160(LC 2), 6=165(LC 7)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
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) 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	RAY WICKERS
P24040749	PB03	Piggyback	4	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:24 2024 Page 1
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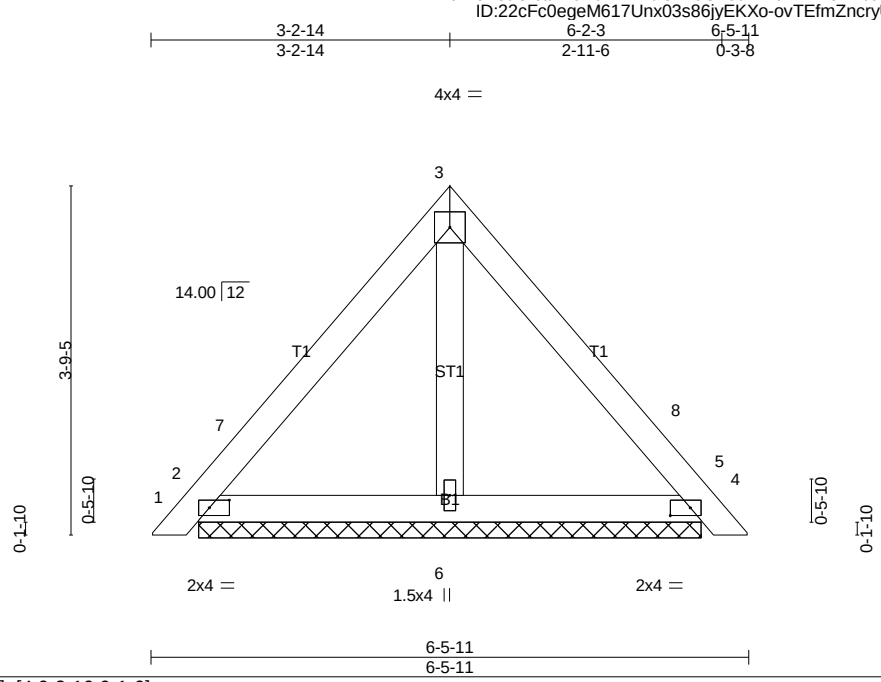

Plate Offsets (X,Y)-- [2:0-2-10,0-1-0], [4:0-2-10,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	0.00	5	n/r	120	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	5	n/r	120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 27 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. (lb/size) 2=120/5-5-5 (min. 0-1-8), 4=120/5-5-5 (min. 0-1-8), 6=130/5-5-5 (min. 0-1-8)
Max Horz 2=-81(LC 10)
Max Uplift2=-26(LC 12), 4=-26(LC 12)
Max Grav 2=160(LC 2), 4=160(LC 2), 6=165(LC 7)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
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) 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	RAY WICKERS
P24040749	T01	Flat Girder	1	2	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:27 2024 Page 1
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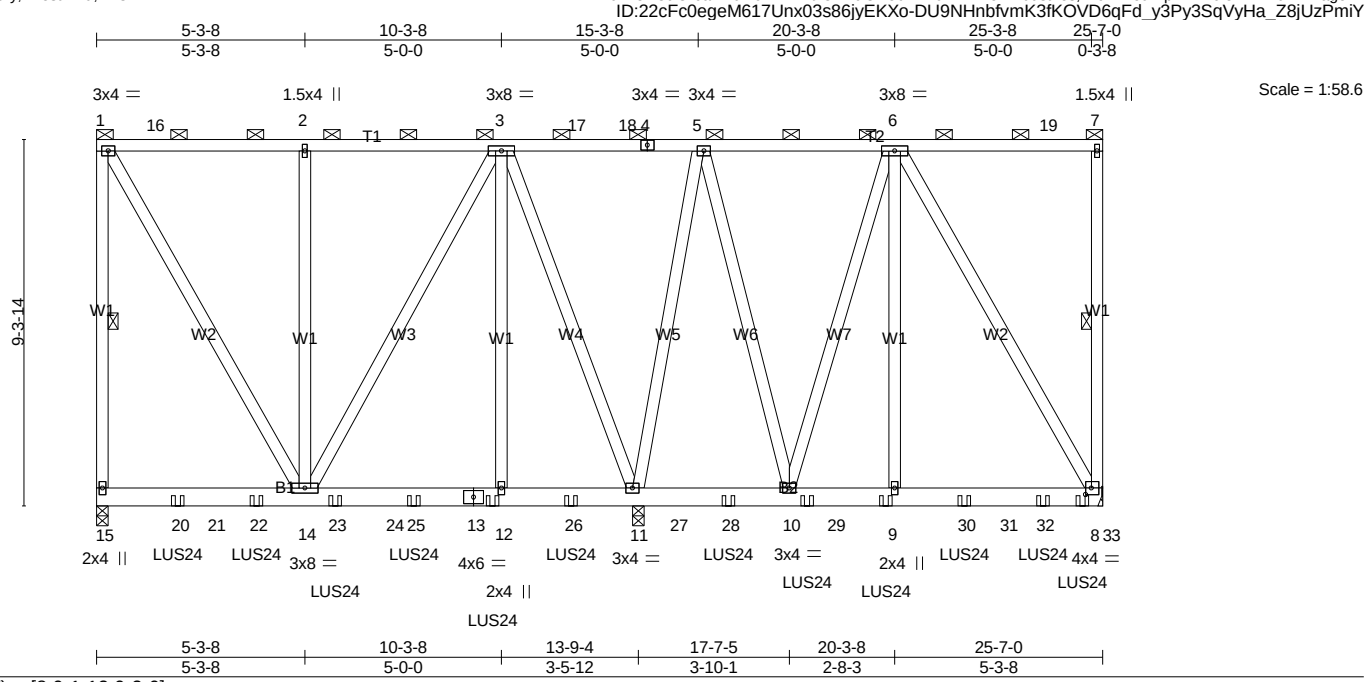

Plate Offsets (X,Y)-- [8:0-1-12,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	0.03	8-9	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.04	8-9	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 517 lb	FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-7, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-15, 7-8

REACTIONS. (lb/size) 15=1177/0-3-8 (min. 0-1-8), 8=1299/Mechanical, 11=2459/0-3-8 (min. 0-2-6)
Max Horz 15=-251(LC 8)
Max Uplift 15=-553(LC 8), 8=-671(LC 9), 11=-1181(LC 12)
Max Grav 15=1480(LC 43), 8=1584(LC 42), 11=3013(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-1189/453, 1-16=-655/310, 2-16=-655/310, 2-3=-655/310, 5-6=-382/208
BOT CHORD 14-23=-258/482, 23-24=-258/482, 24-25=-258/482, 13-25=-258/482, 12-13=-258/482, 12-26=-258/482, 11-26=-258/482, 10-29=-254/504, 9-29=-254/504, 9-30=-254/504, 30-31=-254/504, 31-32=-254/504, 32-33=-254/504, 8-33=-254/504
WEBS 1-14=-503/1246, 2-14=-330/85, 3-14=-198/439, 3-12=-281/679, 3-11=-1399/498, 5-11=-1115/397, 5-10=-350/867, 6-10=-505/197, 6-9=-440/1005, 6-8=-943/386

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 0-9-0 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=12ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, 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) 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) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=553, 8=671, 11=1181.
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.

Continued on page 2

NOTES-

13) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 4-0-0 oc max. starting at 2-0-12 from the left end to 25-0-12 to connect truss(es) J01 (1 ply 2x4 SP) to front face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 122 lb down and 149 lb up at 14-0-12 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: 1-7=-53, 8-15=-20
   Concentrated Loads (lb)
      Vert: 12=-252(F) 9=-252(F) 20=-252(F) 22=-252(F) 23=-252(F) 25=-252(F) 26=-252(F) 27=-57 28=-252(F) 29=-252(F) 30=-252(F) 32=-252(F) 33=-258(F)

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	T01GE	Common Supported Gable	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:28 2024 Page 1
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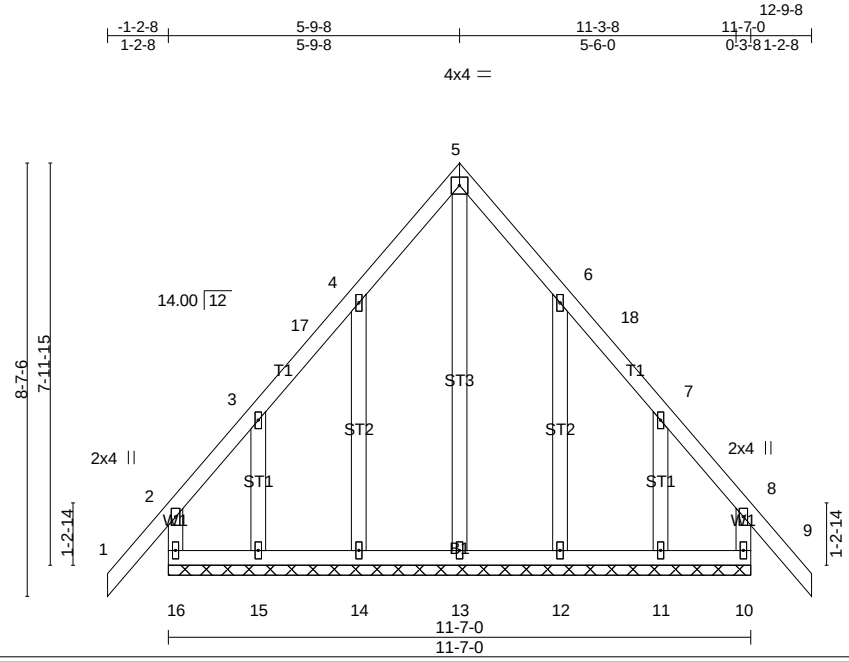

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.01	9	n/r	120	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	9	n/r	120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	-0.00	10	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-R							Weight: 87 lb	FT = 20%
BCDL	10.0											

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 11-7-0.
(lb) - Max Horz 16=215(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11
Max Grav All reactions 250 lb or less at joint(s) 16, 10, 14, 15, 12, 11 except 13=282(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-13=-260/10

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
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=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
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 1.00 times flat roof load of 11.6 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.
14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	T02	Common	2	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:30 2024 Page 1
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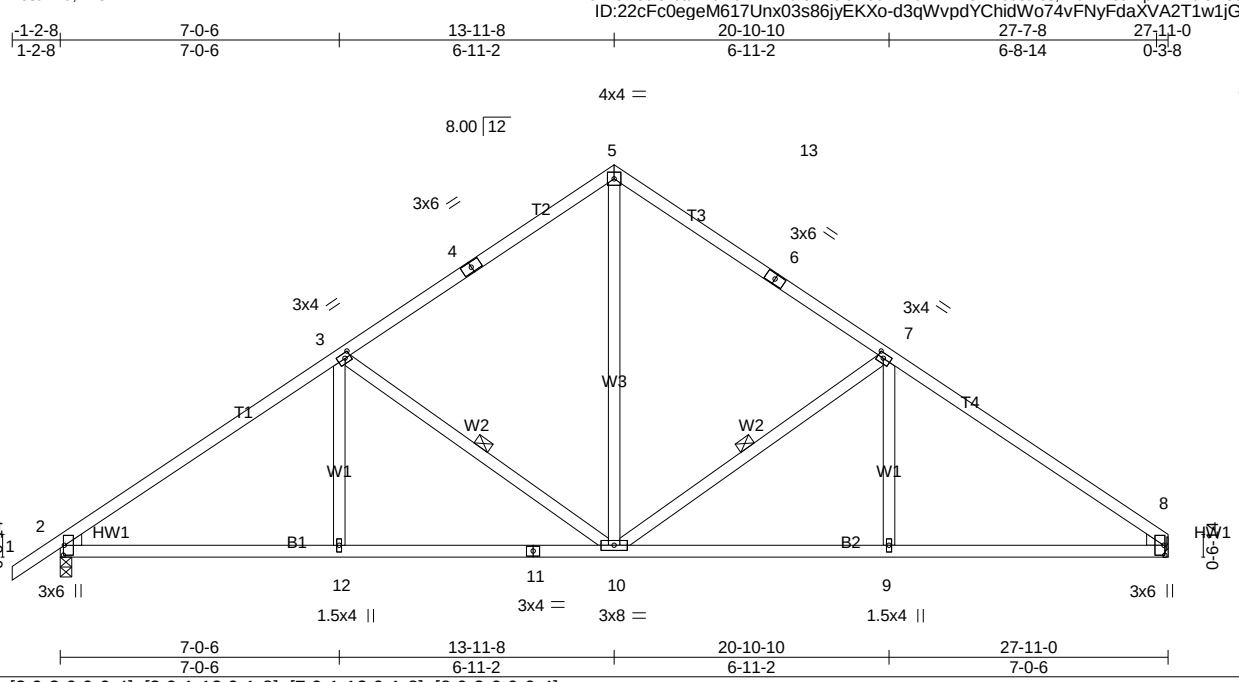

Plate Offsets (X,Y)-- [2:0-3-0,0-0-4], [3:0-1-12,0-1-8], [7:0-1-12,0-1-8], [8:0-3-0,0-0-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.07	8-9	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.16	8-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 147 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 4-0-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-10, 3-10

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

REACTIONS. (lb/size) 2=934/0-3-8 (min. 0-1-14), 8=873/Mechanical
Max Horz 2=193(LC 11)
Max Uplift 2=-34(LC 12)
Max Grav 2=1192(LC 2), 8=1106(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1620/30, 3-4=-1115/73, 4-5=-986/97, 5-13=-986/98, 6-13=-1006/74, 6-7=-1116/56, 7-8=-1609/32
BOT CHORD 2-12=0/1232, 11-12=0/1232, 10-11=0/1232, 9-10=0/1251, 8-9=0/1251
WEBS 5-10=-14/730, 7-10=-555/85, 7-9=0/310, 3-10=-533/80, 3-12=0/305

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	T03	Common	6	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:31 2024 Page 1
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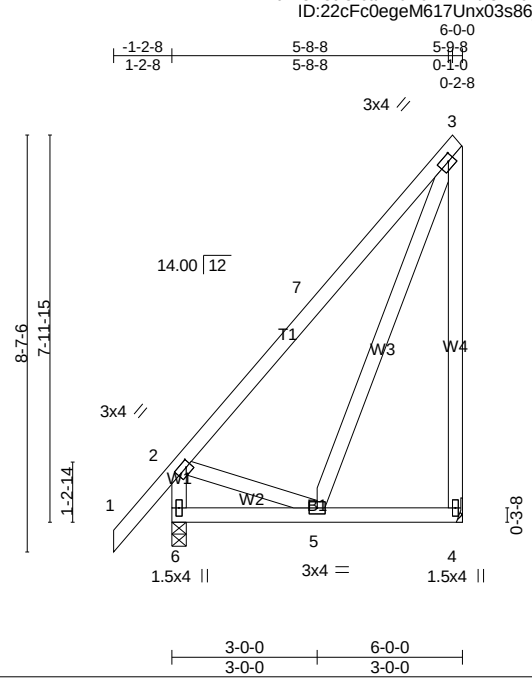

Plate Offsets (X,Y)-- [2:0-1-4,0-1-8], [3:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.00	5	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.01	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P								
BCDL	10.0										Weight: 53 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. (lb/size) 6=245/0-3-8 (min. 0-1-8), 4=173/Mechanical
Max Horz 6=238(LC 12)
Max Uplift4=-122(LC 12)
Max Grav 6=319(LC 2), 4=279(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-296/0
WEBS 3-4=-255/135

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=122.
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	RAY WICKERS
P24040749	T04	Common	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:32 2024 Page 1
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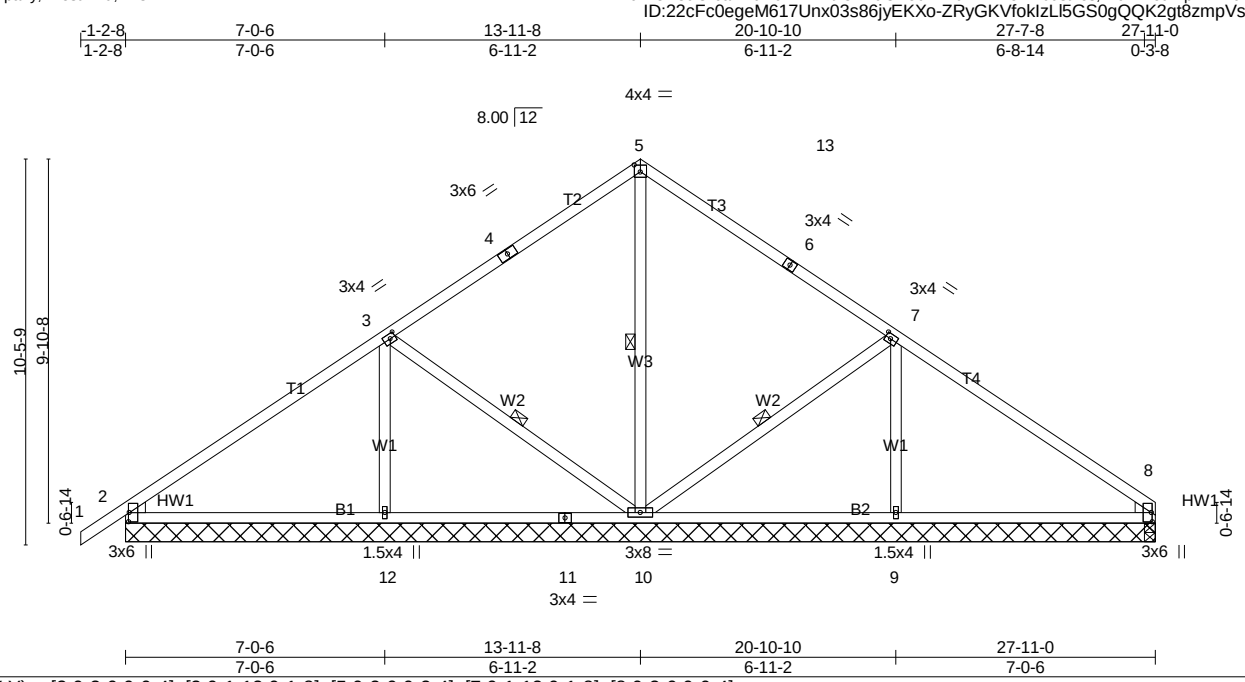

Plate Offsets (X,Y)-- [2:0-3-0,0-0-4], [3:0-1-12,0-1-8], [5:0-2-0,0-2-4], [7:0-1-12,0-1-8], [8:0-3-0,0-0-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.05	2-12	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.12	2-12	>732	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 147 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-10, 7-10, 3-10

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

REACTIONS. All bearings 27-11-0.
(lb) - Max Horz 2=193(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10
Max Grav All reactions 250 lb or less at joint(s) 8 except 2=362(LC 2), 10=547(LC 2), 9=552(LC 31), 12=567(LC 24), 8=279(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-10=-327/0, 7-9=-384/73, 3-12=-394/70

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
9) 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	RAY WICKERS
P24040749	T05	Common	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:34 2024 Page 1
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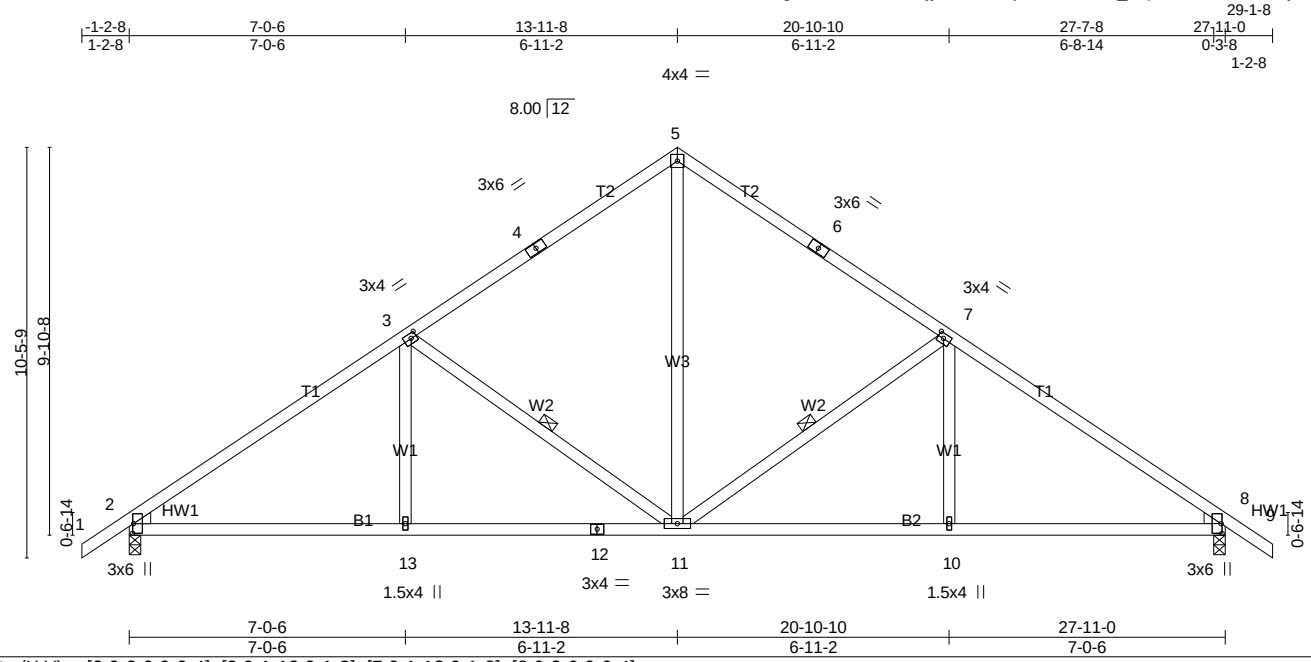

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Plate Offsets (X,Y)-- [2:0-3-0,0-0-4], [3:0-1-12,0-1-8], [7:0-1-12,0-1-8], [8:0-3-0,0-0-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.06	8-10	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.14	8-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S								
BCDL	10.0										Weight: 150 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 4-4-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-11, 3-11

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

REACTIONS. (lb/size) 2=930/0-3-8 (min. 0-1-14), 8=930/0-3-8 (min. 0-1-14)
Max Horz 2=197(LC 11)
Max Uplift 2=-33(LC 12), 8=-33(LC 12)
Max Grav 2=1186(LC 2), 8=1186(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1611/28, 3-4=-1106/54, 4-5=-977/95, 5-6=-977/95, 6-7=-1106/54, 7-8=-1611/28
BOT CHORD 2-13=0/1226, 12-13=0/1226, 11-12=0/1226, 10-11=0/1225, 8-10=0/1225
WEBS 5-11=-10/717, 7-11=-533/80, 7-10=0/304, 3-11=-532/80, 3-13=0/304

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
9) 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	RAY WICKERS
P24040749	T06	Roof Special	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:36 2024 Page 1
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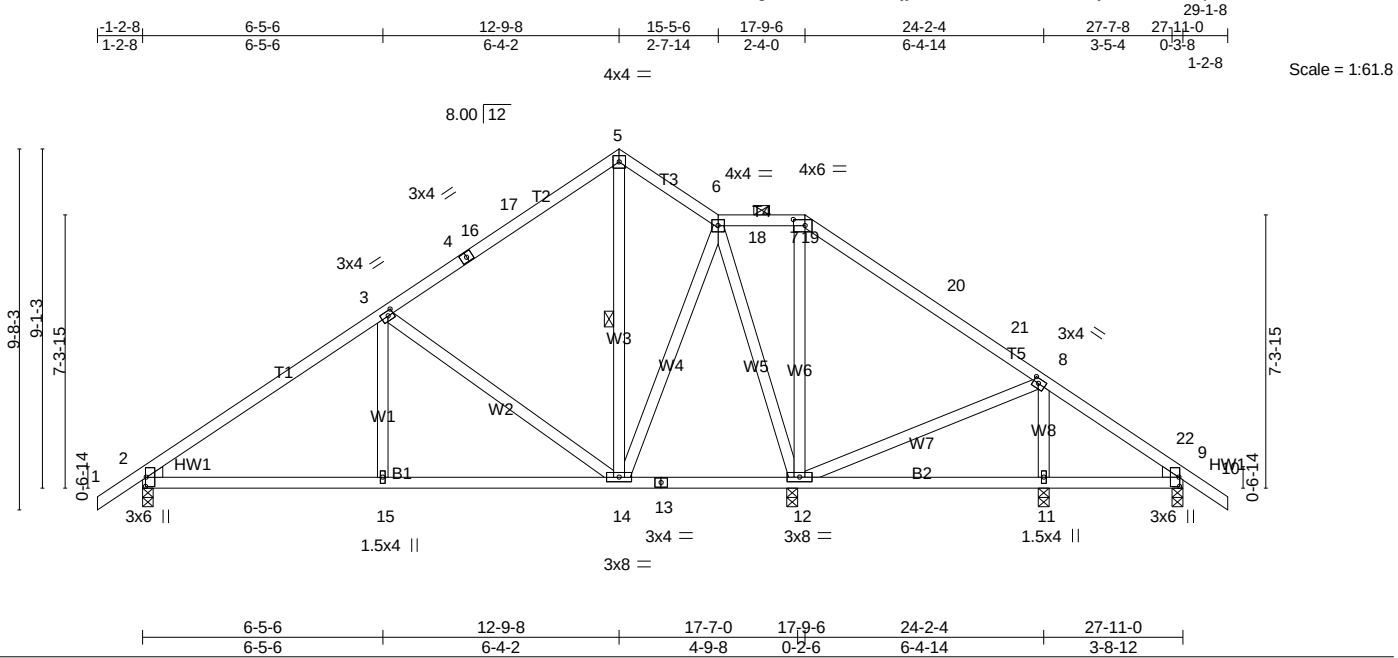

Plate Offsets (X,Y)-- [2:0-3-0,0-0-4], [3:0-1-12,0-1-8], [7:0-3-12,0-2-0], [8:0-1-12,0-1-8], [9:0-3-0,0-0-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.04	2-15	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.08	2-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.01	12	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S								
BCDL	10.0										Weight: 172 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 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 0-3-8.
(lb) - Max Horz 2=-181(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 9
Max Grav All reactions 250 lb or less at joint(s) 9 except 2=720(LC 2), 12=1153(LC 2), 11=479(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-833/22, 3-4=-359/48, 4-16=-268/62, 5-6=-257/97, 7-20=0/256
BOT CHORD 2-15=0/653, 14-15=0/653
WEBS 3-15=0/287, 3-14=-512/72, 6-14=0/441, 6-12=-633/3, 7-12=-377/45, 8-11=-369/64

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, 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 1.00 times flat roof load of 11.6 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.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 9.
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	RAY WICKERS
P24040749	T07	Roof Special	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

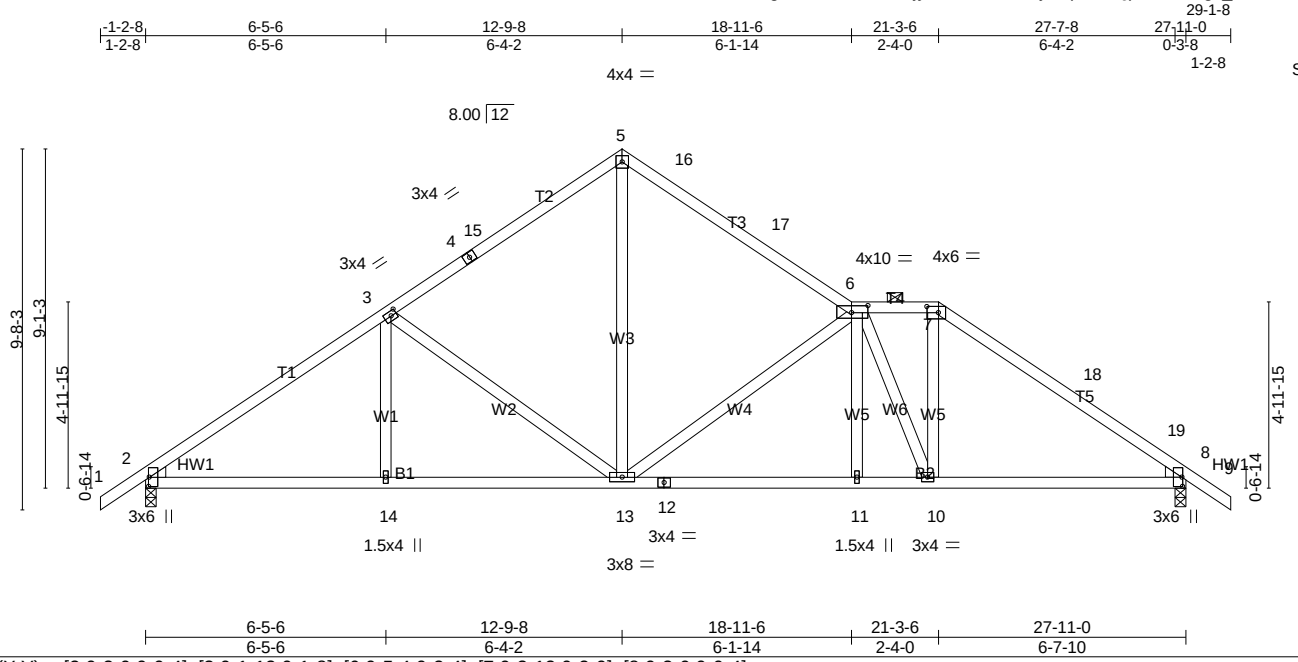

Plate Offsets (X,Y)-- [2:0-3-0,0-0-4], [3:0-1-12,0-1-8], [6:0-5-4,0-2-4], [7:0-3-12,0-2-0], [8:0-3-0,0-0-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.06	8-10	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.15	11-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 158 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 2-11-10 oc purlins, except 2-0-0 oc purlins (5-4-4 max.): 6-7.
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. (lb/size) 2=936/0-3-8 (min. 0-1-14), 8=947/0-3-8 (min. 0-2-0)
Max Horz 2=181(LC 11)
Max Uplift 2=-33(LC 12), 8=-33(LC 12)
Max Grav 2=1186(LC 2), 8=1256(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1623/25, 3-4=-1172/49, 4-15=-1081/62, 5-15=-1057/87, 5-16=-984/83, 16-17=-1055/62, 6-17=-1154/59, 6-7=-1219/51, 7-18=-1481/22, 18-19=-1487/0, 8-19=-1599/0
BOT CHORD 2-14=0/1238, 13-14=0/1238, 12-13=0/1424, 11-12=0/1424, 10-11=0/1426, 8-10=0/1200
WEBS 3-14=0/273, 3-13=-469/72, 5-13=-0/806, 6-13=-727/61, 6-10=-489/0, 7-10=0/591

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, 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 1.00 times flat roof load of 11.6 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.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
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	RAY WICKERS
P24040749	T08	Roof Special Girder	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:40 2024 Page 1
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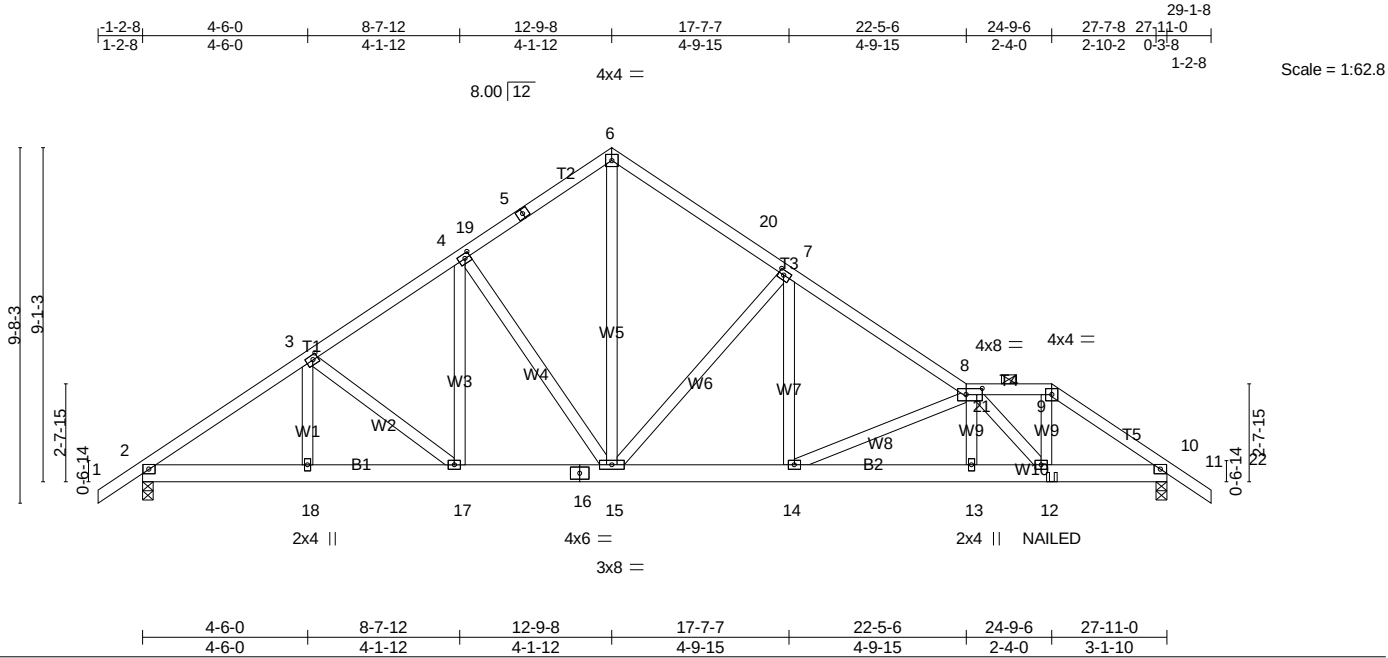

4-6-0	8-7-12	12-9-8	17-7-7	22-5-6	24-9-6	27-11-0
4-6-0	4-1-12	4-1-12	4-9-15	4-9-15	2-4-0	3-1-10

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

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.06	14	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.12	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.04	10	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 197 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 4-7-4 oc purlins, except 2-0-0 oc purlins (5-8-9 max.): 8-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 2=923/0-3-8 (min. 0-1-14), 10=871/0-3-8 (min. 0-1-13)
Max Horz 2=181(LC 11)
Max Uplift 2=-51(LC 12), 10=-172(LC 12)
Max Grav 2=1176(LC 2), 10=1161(LC 37)

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

TOP CHORD	2-3=-1648/40, 3-4=-1376/87, 4-19=-1108/103, 5-19=-1051/111, 5-6=-1036/128, 6-20=-1036/126, 7-20=-1126/97, 7-8=-1628/111, 8-21=-1216/196, 9-21=-1216/196, 9-10=-1531/220
BOT CHORD	2-18=0/1276, 17-18=0/1276, 16-17=0/1088, 15-16=0/1088, 14-15=0/1285, 13-14=-108/1948, 12-13=-106/1950, 10-12=-112/1168
WEBS	4-17=0/268, 4-15=-414/60, 6-15=-78/903, 7-15=-741/109, 7-14=-5/447, 8-14=-752/156, 8-12=-1078/8, 9-12=-104/751

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 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 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 3x4 MT20 unless otherwise indicated.
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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 10=172.
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.

Continued on page 2

NOTES-

13) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-43, 6-8=-43, 8-9=-53, 9-11=-43, 2-10=-20
   Concentrated Loads (lb)
      Vert: 12=89(F)

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	T09	Common	2	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:42 2024 Page 1
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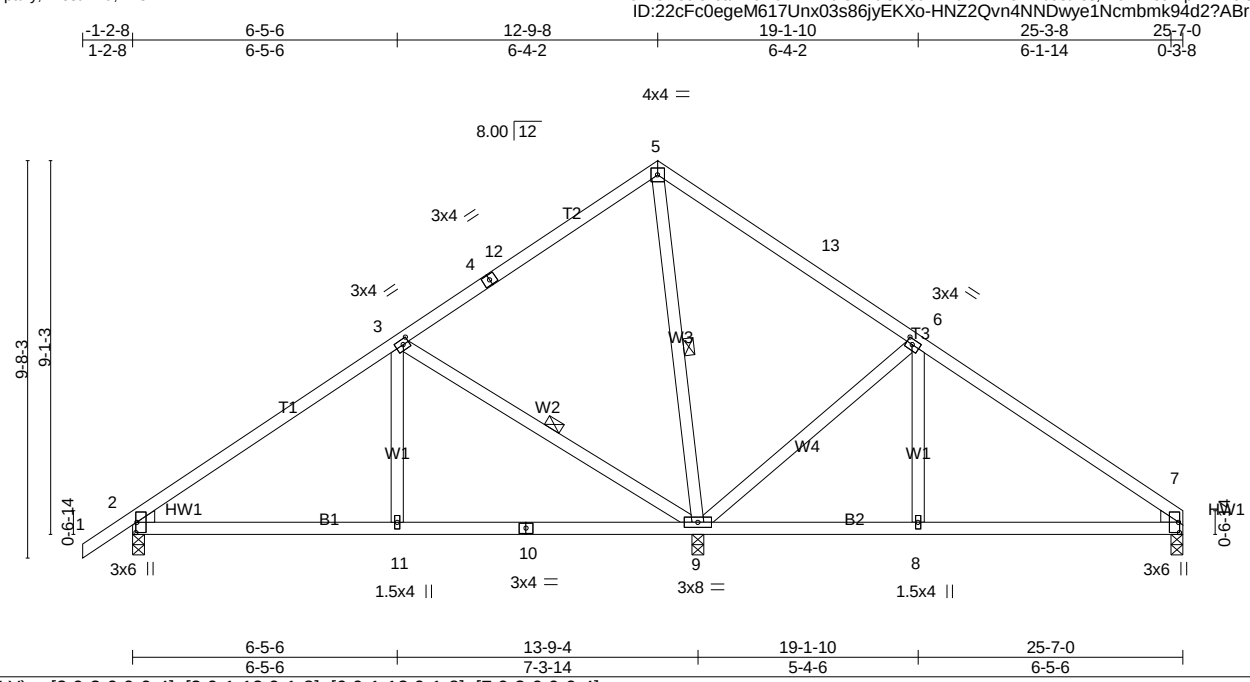

Plate Offsets (X,Y)-- [2:0-3-0,0-0-4], [3:0-1-12,0-1-8], [6:0-1-12,0-1-8], [7:0-3-0,0-0-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.04	9-11	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.09	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 136 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-9, 3-9

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

REACTIONS. (lb/size) 2=400/0-3-8 (min. 0-1-8), 9=993/0-3-8 (min. 0-1-15), 7=261/0-3-8 (min. 0-1-8)
Max Horz 2=175(LC 11)
Max Uplift 2=-31(LC 12), 9=-6(LC 12)
Max Grav 2=538(LC 30), 9=1252(LC 2), 7=368(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-527/19, 5-13=0/313, 6-7=-359/26
BOT CHORD 2-11=0/390, 10-11=0/390, 9-10=0/390
WEBS 5-9=-540/0, 6-9=-506/85, 6-8=0/251, 3-9=-544/67, 3-11=0/307

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
9) 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	RAY WICKERS
P24040749	T10	Common	2	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:43 2024 Page 1
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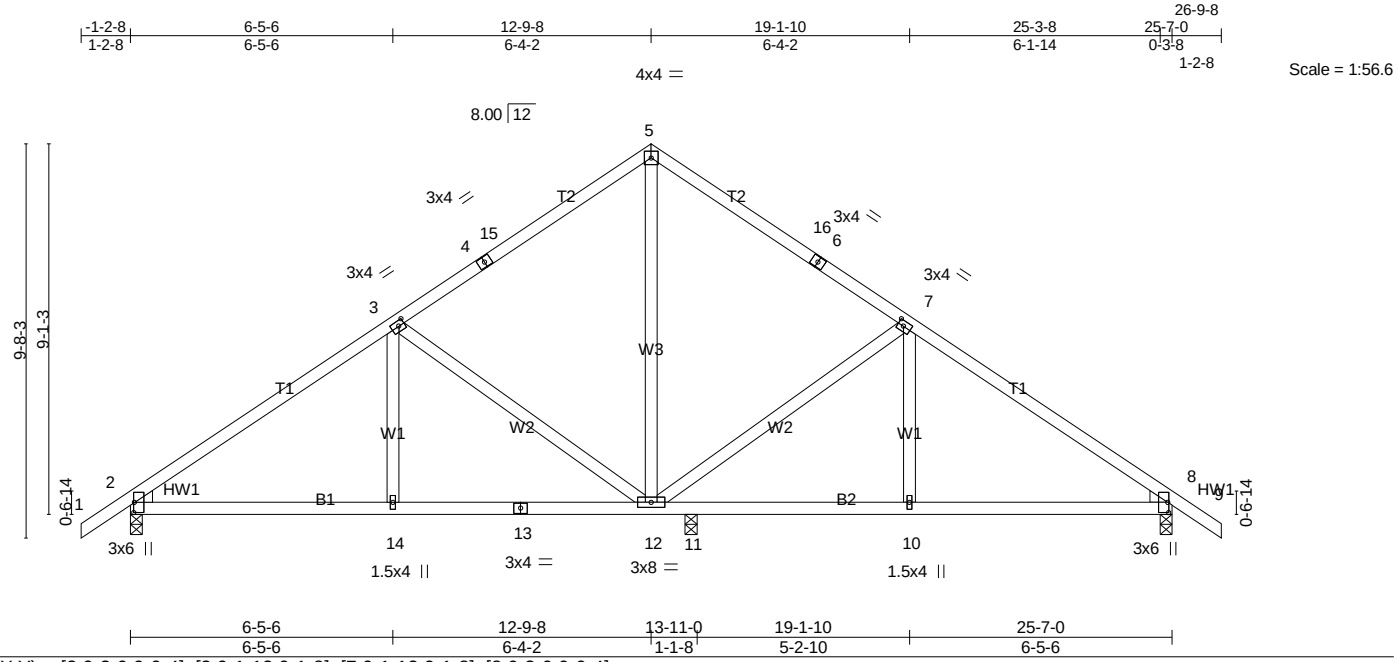

Plate Offsets (X,Y)-- [2:0-3-0,0-0-4], [3:0-1-12,0-1-8], [7:0-1-12,0-1-8], [8:0-3-0,0-0-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.05	12-14	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.13	12-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.03	8	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 138 lb	FT = 20%

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

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

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

REACTIONS. (lb/size) 2=705/0-3-8 (min. 0-1-8), 8=680/0-3-8 (min. 0-1-8), 11=328/0-3-8 (min. 0-1-8)
Max Horz 2=-178(LC 10)
Max Uplift 2=-40(LC 12), 8=-41(LC 12)
Max Grav 2=905(LC 2), 8=874(LC 2), 11=407(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1157/36, 3-4=-662/62, 4-15=-572/76, 5-15=-545/100, 5-16=-545/100, 6-16=-572/76, 6-7=-663/62, 7-8=-1075/39
BOT CHORD 2-14=0/880, 13-14=0/880, 12-13=0/880, 11-12=0/795, 10-11=0/795, 8-10=0/795
WEBS 5-12=-23/316, 7-12=-448/74, 3-12=-519/71, 3-14=0/309

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
9) 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	RAY WICKERS
P24040749	T11	Common	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:45 2024 Page 1
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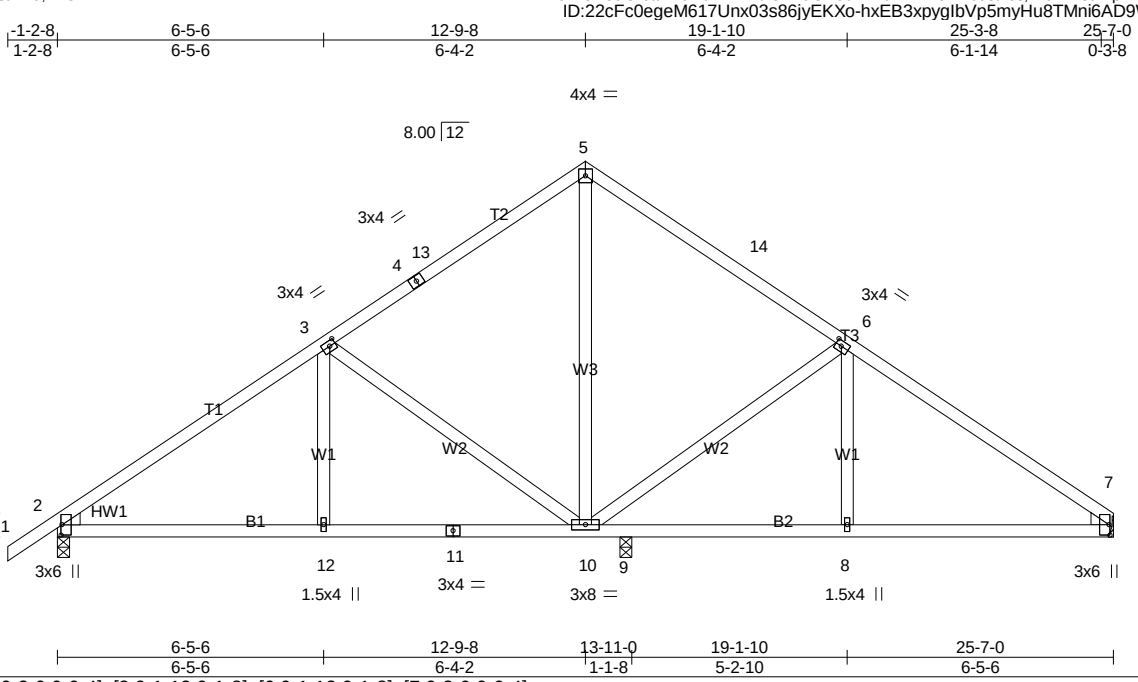

Plate Offsets (X,Y)-- [2:0-3-0,0-0-4], [3:0-1-12,0-1-8], [6:0-1-12,0-1-8], [7:0-3-0,0-0-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.06	10-12	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.13	10-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.03	7	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 135 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 5-4-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 2=707/0-3-8 (min. 0-1-8), 7=621/Mechanical, 9=331/0-3-8 (min. 0-1-8)
Max Horz 2=175(LC 11)
Max Uplift 2=-39(LC 12), 7=-4(LC 12)
Max Grav 2=908(LC 2), 7=792(LC 2), 9=412(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1162/35, 3-4=-667/60, 4-13=-576/74, 5-13=-549/98, 5-14=-549/99, 6-14=-668/61, 6-7=-1070/40
BOT CHORD 2-12=0/878, 11-12=0/878, 10-11=0/878, 9-10=0/816, 8-9=0/816, 7-8=0/816
WEBS 5-10=-23/321, 6-10=-468/79, 3-10=-520/71, 3-12=0/310

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
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	RAY WICKERS
P24040749	T12	Common	5	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:46 2024 Page 1
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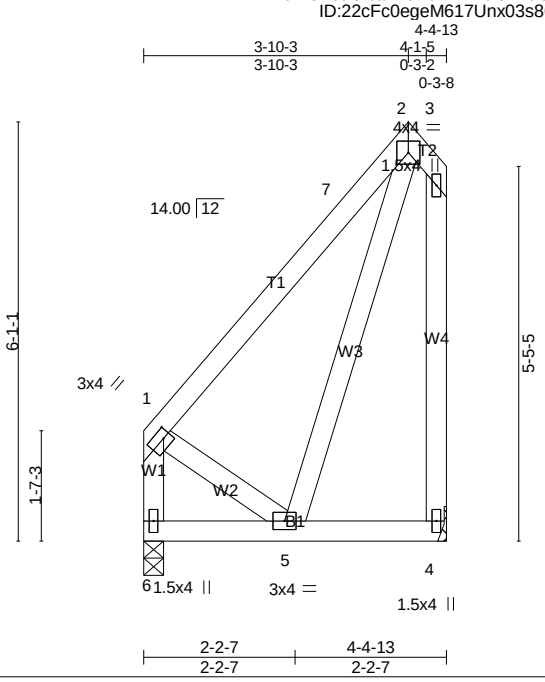

Plate Offsets (X,Y)-- [1:0-1-4,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.01	5	>999	240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 38 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 4-4-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 6=130/0-3-8 (min. 0-1-8), 4=130/Mechanical
Max Horz 6=166(LC 11)
Max Uplift 6=-9(LC 8), 4=-90(LC 9)
Max Grav 6=218(LC 24), 4=224(LC 23)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for 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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
9) 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	RAY WICKERS
P24040749	TG01	Attic Girder	1	5	Job Reference (optional)

Longleaf Truss Company, West End, N.C. Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:51 2024 Page 1
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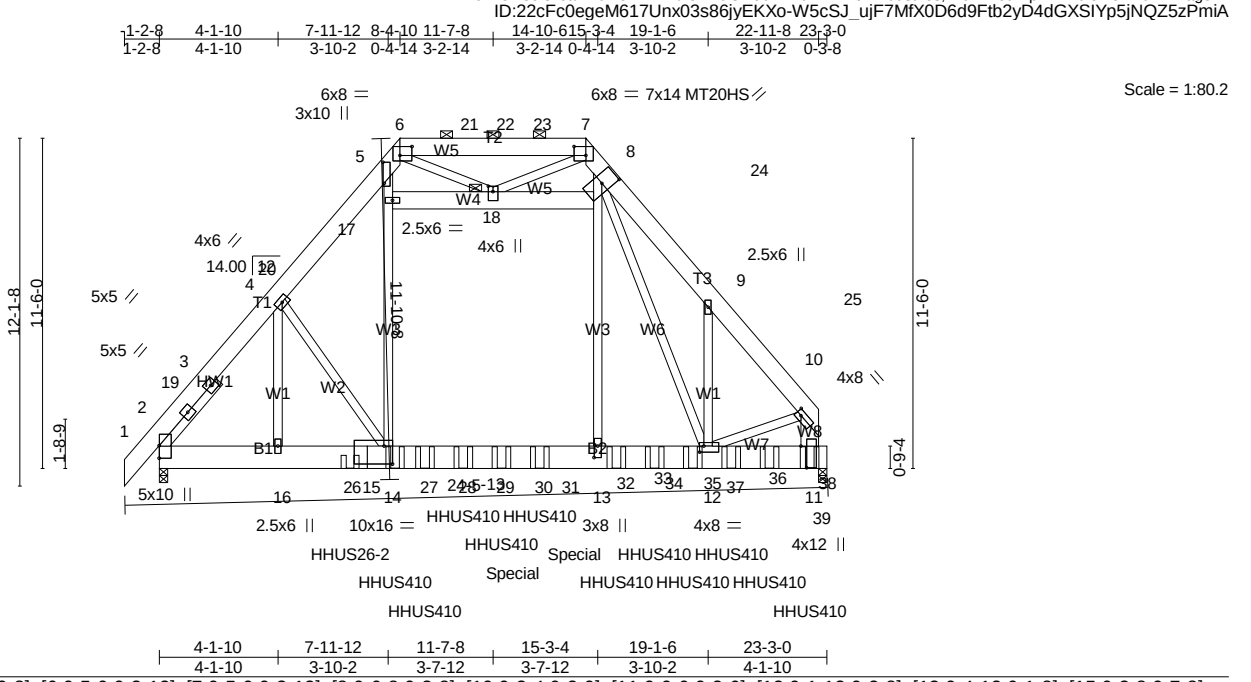

Plate Offsets (X,Y)-- [5:0-8-13,0-0-8], [6:0-5-0,0-3-12], [7:0-5-0,0-3-12], [8:0-6-8,0-3-8], [10:0-2-4,0-2-0], [11:0-9-0,0-2-6], [12:0-1-12,0-2-8], [13:0-4-12,0-1-8], [15:0-3-8,0-7-8], [18:0-2-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.05	14-16	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.09	14-16	>999	180	MT20HS	187/143
TCDL	20.0	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.01	11	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S		Attic	-0.03	13-14	2809	360	Weight: 1554 lb	FT = 20%
BCDL	20.0											

LUMBER-
TOP CHORD 2x8 SP DSS
BOT CHORD 2x10 SP DSS
WEBS 2x4 SP No.3 *Except*
W4,W8: 2x8 SP DSS
SLIDER Left 2x4 SP No.3 3-0-15

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 18

REACTIONS. (lb/size) 2=6872/0-3-8 (min. 0-2-11), 11=8442/0-3-8 (req. 0-3-9)
Max Horz 2=-237(LC 10)
Max Grav 2=8640(LC 42), 11=11351(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-9907/0, 3-19=-9805/0, 3-4=-9821/0, 4-20=-9156/0, 5-20=-8935/0, 5-6=-3859/0, 6-21=-5850/0, 21-22=-5850/0, 22-23=-5850/0, 7-23=-5850/0, 7-8=-3021/0, 8-24=-9057/0, 9-24=-9123/0, 9-25=-9062/0, 10-25=-9217/0
BOT CHORD 2-16=0/5846, 16-26=0/5858, 15-26=0/5858, 14-15=0/5858, 14-27=0/5666, 27-28=0/5666, 28-29=0/5666, 29-30=0/5666, 30-31=0/5666, 31-32=0/5666, 32-33=0/5666, 13-33=0/5666, 13-34=0/5626, 34-35=0/5626, 35-36=0/5626, 12-36=0/5626
WEBS 4-16=-29/1681, 4-14=-1048/210, 14-17=0/6589, 5-17=0/6628, 8-13=0/4866, 8-12=-553/1144, 9-12=-302/274, 17-18=0/453, 8-18=-3993/0, 6-18=-297/698, 7-18=0/4633, 10-11=-9699/0, 10-12=0/6443

NOTES-
1) 5-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 3 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x8 - 2 rows staggered at 0-6-0 oc, Except member 10-11 2x8 - 2 rows staggered at 0-9-0 oc.
Attach TC&BC w/1/2" diam. bolts(ASTM A-307) in the center of the member w/washers at 4-0-0 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=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
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 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
8) Provide adequate drainage to prevent water ponding.

Continued on page 2

NOTES-

9) All plates are MT20 plates unless otherwise indicated.
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 = 20.0psf.
12) Ceiling dead load (5.0 psf) on member(s). 17-18, 8-18; Wall dead load (5.0psf) on member(s).14-17, 8-13
13) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-14
14) WARNING: Required bearing size at joint(s) 11 greater than input bearing size.
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) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
17) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
18) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 6-7-12 from the left end to connect truss(es) T01 (2 ply 2x6 SP) to back face of bottom chord.
19) Use Simpson Strong-Tie HHUS410 (30-10d Girder, 10-10d Truss, Single Ply Girder) or equivalent spaced at 2-8-0 oc max. starting at 8-2-9 from the left end to 22-7-14 to connect truss(es) F04 (1 ply 2x4 SP) to back face of bottom chord.
20) Fill all nail holes where hanger is in contact with lumber.
21) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3000 lb down at 7-11-0, 795 lb down and 342 lb up at 12-3-11, and 752 lb down and 44 lb up at 14-2-14, and 358 lb down at 14-7-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
22) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-63, 6-7=-73, 7-10=-63, 2-13=-40, 11-13=-630(F=-590), 8-17=-10
      Drag: 14-17=-10, 8-13=-10
   Concentrated Loads (lb)
      Vert: 14=-2271(F=-2200, B=-71) 18=-1000(F) 11=-83(B) 26=-2859(F=-1600, B=-1259) 27=-71(B) 28=-71(B) 29=-71(B) 30=-695(B) 31=-71(B) 32=-596(B) 33=-71(B) 34=-71(B) 35=-71(B) 36=-71(B) 37=-71(B) 38=-71(B)
2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-80, 6-7=-80, 7-10=-80, 2-13=-40, 11-13=-380(F=-340), 8-17=-10
      Drag: 14-17=-10, 8-13=-10
   Concentrated Loads (lb)
      Vert: 14=-1471(F=-1400, B=-71) 18=-500(F) 11=-83(B) 26=-1986(F=-800, B=-1186) 27=-71(B) 28=-71(B) 29=-71(B) 30=-756(B) 31=-71(B) 32=-752(B) 33=-71(B) 34=-71(B) 35=-71(B) 36=-71(B) 37=-71(B) 38=-71(B)
3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-70, 6-7=-70, 7-10=-70, 2-14=-55, 13-14=-100, 13-35=-403(F=-333), 11-35=-388(F=-333), 8-17=-10
      Drag: 14-17=-10, 8-13=-10
   Concentrated Loads (lb)
      Vert: 14=-1643(F=-1356, B=-287) 18=-500(F) 11=-299(B) 26=-1921(F=-800, B=-1121) 27=-287(B) 28=-287(B) 29=-287(B) 30=-647(B) 31=-287(B) 32=-651(B) 33=-287(B) 34=-287(B) 35=-287(B) 36=-287(B) 37=-287(B) 38=-287(B)
4) Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-57, 6-7=-65, 7-10=-57, 2-14=-55, 13-14=-100, 13-35=-591(F=-521), 11-35=-576(F=-521), 8-17=-10
      Drag: 14-17=-10, 8-13=-10
   Concentrated Loads (lb)
      Vert: 14=-2243(F=-1956, B=-287) 18=-875(F) 11=-299(B) 26=-2575(F=-1400, B=-1175) 27=-287(B) 28=-287(B) 29=-287(B) 30=-601(B) 31=-287(B) 32=-534(B) 33=-287(B) 34=-287(B) 35=-287(B) 36=-287(B) 37=-287(B) 38=-287(B)
5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-57, 6-22=-57, 7-22=-78, 7-10=-45, 2-14=-55, 13-14=-100, 13-35=-591(F=-521), 11-35=-576(F=-521), 8-17=-10
      Drag: 14-17=-10, 8-13=-10
   Concentrated Loads (lb)
      Vert: 14=-2243(F=-1956, B=-287) 18=-1250(F) 11=-299(B) 26=-2575(F=-1400, B=-1175) 27=-287(B) 28=-287(B) 29=-287(B) 30=-601(B) 31=-287(B) 32=-534(B) 33=-287(B) 34=-287(B) 35=-287(B) 36=-287(B) 37=-287(B) 38=-287(B)
6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-45, 6-23=-78, 7-23=-57, 7-10=-57, 2-14=-55, 13-14=-100, 13-35=-591(F=-521), 11-35=-576(F=-521), 8-17=-10
      Drag: 14-17=-10, 8-13=-10
   Concentrated Loads (lb)
      Vert: 14=-2243(F=-1956, B=-287) 18=-1250(F) 11=-299(B) 26=-2575(F=-1400, B=-1175) 27=-287(B) 28=-287(B) 29=-287(B) 30=-601(B) 31=-287(B) 32=-534(B) 33=-287(B) 34=-287(B) 35=-287(B) 36=-287(B) 37=-287(B) 38=-287(B)
7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: 1-6=-40, 6-7=-40, 7-10=-40, 2-14=-60, 13-14=-40, 11-13=-400(F=-340), 8-17=-10
      Drag: 14-17=-10, 8-13=-10
   Concentrated Loads (lb)
      Vert: 14=-1400(F) 18=-500(F) 26=-1609(F=-800, B=-809) 30=-470(B) 32=-535(B)
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-2=5, 2-6=-7, 6-21=12, 7-21=3, 7-10=6, 2-13=-12, 11-13=-262(F=-250), 8-17=-6
      Horz: 1-2=-17, 2-6=-5, 7-10=17
      Drag: 14-17=-10, 8-13=-10
   Concentrated Loads (lb)
      Vert: 14=-800(F) 18=-500(F) 26=-117(F=-800, B=683) 30=314(B) 32=16(B)

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LOAD CASE(S) Standard

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=1, 2-6=6, 6-21=3, 7-21=12, 7-10=-7, 2-13=-12, 11-13=-262(F=-250), 8-17=-6
Horz: 1-2=-13, 2-6=-17, 7-10=5
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-800(F) 18=-500(F) 26=-117(F=-800, B=683) 30=314(B) 32=16(B)

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-6=-54, 6-7=-41, 7-10=-32, 2-13=-40, 11-13=-365(F=-325), 8-17=-10
Horz: 1-2=10, 2-6=14, 7-10=8
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1301(F) 18=-500(F) 26=-89(F=-800, B=711) 30=342(B) 32=44(B)

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-6=-32, 6-7=-41, 7-10=-54, 2-13=-40, 11-13=-365(F=-325), 8-17=-10
Horz: 1-2=-13, 2-6=-8, 7-10=-14
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1301(F) 18=-500(F) 26=-89(F=-800, B=711) 30=342(B) 32=44(B)

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=25, 2-6=12, 6-7=12, 7-10=12, 2-13=-12, 11-13=-262(F=-250), 8-17=-6
Horz: 1-2=-37, 2-6=-24, 7-10=24
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-800(F) 18=-500(F) 26=-117(F=-800, B=683) 30=314(B) 32=16(B)

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-6=-1, 6-7=-1, 7-10=-1, 2-13=-12, 11-13=-272(F=-260), 8-17=-6
Horz: 1-2=-24, 2-6=-11, 7-10=11
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-869(F) 18=-500(F) 26=-117(F=-800, B=683) 30=314(B) 32=16(B)

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-6=-41, 6-7=-41, 7-10=-41, 2-13=-40, 11-13=-357(F=-317), 8-17=-10
Horz: 1-2=-4, 2-6=1, 7-10=-1
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1249(F) 18=-500(F) 26=-89(F=-800, B=711) 30=342(B) 32=44(B)

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-6=-41, 6-7=-41, 7-10=-41, 2-13=-40, 11-13=-357(F=-317), 8-17=-10
Horz: 1-2=-4, 2-6=1, 7-10=-1
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1249(F) 18=-500(F) 26=-89(F=-800, B=711) 30=342(B) 32=44(B)

16) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-63, 2-6=-40, 6-7=-40, 7-10=-40, 2-13=-40, 11-13=-354(F=-314)
Concentrated Loads (lb)
Vert: 14=-1296(F=-1224, B=-71) 18=-500(F) 11=-83(B) 26=-1345(F=-800, B=-545) 27=-71(B) 28=-71(B) 29=-71(B)
30=-320(B) 31=-71(B) 32=-349(B) 33=-71(B) 34=-71(B) 35=-71(B) 36=-71(B) 37=-71(B) 38=-71(B)

17) Dead + Uninhab. Attic Storage + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-6=-40, 6-7=-40, 7-10=-40, 2-14=-60, 13-14=-120, 13-35=-420(F=-340), 11-35=-400(F=-340), 8-17=-10
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1758(F=-1400, B=-358) 18=-500(F) 11=-370(B) 26=-1471(F=-800, B=-671) 27=-358(B) 28=-358(B) 29=-358(B)
30=-319(B) 31=-358(B) 32=-348(B) 33=-358(B) 34=-358(B) 35=-358(B) 36=-358(B) 37=-358(B) 38=-358(B)

18) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-63, 6-22=-63, 7-22=-90, 7-10=-47, 2-13=-40, 11-13=-630(F=-590), 8-17=-10
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2271(F=-2200, B=-71) 18=-1500(F) 11=-83(B) 26=-2859(F=-1600, B=-1259) 27=-71(B) 28=-71(B) 29=-71(B)
30=-695(B) 31=-71(B) 32=-596(B) 33=-71(B) 34=-71(B) 35=-71(B) 36=-71(B) 37=-71(B) 38=-71(B)

19) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-47, 6-23=-90, 7-23=-63, 7-10=-63, 2-13=-40, 11-13=-630(F=-590), 8-17=-10
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2271(F=-2200, B=-71) 18=-1500(F) 11=-83(B) 26=-2859(F=-1600, B=-1259) 27=-71(B) 28=-71(B) 29=-71(B)
30=-695(B) 31=-71(B) 32=-596(B) 33=-71(B) 34=-71(B) 35=-71(B) 36=-71(B) 37=-71(B) 38=-71(B)

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LOAD CASE(S) Standard

20) Dead + Uninhabitable Attic Storage: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-6=-40, 6-7=-40, 7-10=-40, 2-14=-60, 13-14=-120, 13-35=-420(F=-340), 11-35=-400(F=-340), 8-17=-10
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1758(F=-1400, B=-358) 18=-500(F) 11=-370(B) 26=-1471(F=-800, B=-671) 27=-358(B) 28=-358(B) 29=-358(B) 30=-319(B) 31=-358(B) 32=-348(B) 33=-358(B) 34=-358(B) 35=-358(B) 36=-358(B) 37=-358(B) 38=-358(B)

21) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-65, 2-6=-68, 6-7=-65, 7-10=-51, 2-14=-55, 13-14=-100, 13-35=-600(F=-530), 11-35=-585(F=-530), 8-17=-10
Horz: 1-2=7, 2-6=11, 7-10=6
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2014(F) 18=-875(F) 26=-1115(F=-1400, B=285) 30=184(B) 32=-15(B)

22) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-48, 2-6=-51, 6-7=-65, 7-10=-68, 2-14=-55, 13-14=-100, 13-35=-600(F=-530), 11-35=-585(F=-530), 8-17=-10
Horz: 1-2=-10, 2-6=-6, 7-10=-11
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2014(F) 18=-875(F) 26=-1115(F=-1400, B=285) 30=184(B) 32=-15(B)

23) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-54, 2-6=-58, 6-7=-65, 7-10=-58, 2-14=-55, 13-14=-100, 13-35=-594(F=-524), 11-35=-579(F=-524), 8-17=-10
Horz: 1-2=-3, 2-6=1, 7-10=-1
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1974(F) 18=-875(F) 26=-1115(F=-1400, B=285) 30=184(B) 32=-15(B)

24) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-54, 2-6=-58, 6-7=-65, 7-10=-58, 2-14=-55, 13-14=-100, 13-35=-594(F=-524), 11-35=-579(F=-524), 8-17=-10
Horz: 1-2=-3, 2-6=1, 7-10=-1
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1974(F) 18=-875(F) 26=-1115(F=-1400, B=285) 30=184(B) 32=-15(B)

25) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-77, 2-6=-81, 6-7=-71, 7-10=-64, 2-14=-55, 13-14=-100, 13-35=-412(F=-342), 11-35=-397(F=-342), 8-17=-10
Horz: 1-2=7, 2-6=11, 7-10=6
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1414(F) 18=-500(F) 26=-411(F=-800, B=389) 30=213(B) 32=-15(B)

26) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-60, 2-6=-64, 6-7=-71, 7-10=-81, 2-14=-55, 13-14=-100, 13-35=-412(F=-342), 11-35=-397(F=-342), 8-17=-10
Horz: 1-2=-10, 2-6=-6, 7-10=-11
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1414(F) 18=-500(F) 26=-411(F=-800, B=389) 30=213(B) 32=-15(B)

27) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-67, 2-6=-71, 6-7=-71, 7-10=-71, 2-14=-55, 13-14=-100, 13-35=-406(F=-336), 11-35=-391(F=-336), 8-17=-10
Horz: 1-2=-3, 2-6=1, 7-10=-1
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1374(F) 18=-500(F) 26=-411(F=-800, B=389) 30=213(B) 32=-15(B)

28) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-67, 2-6=-71, 6-7=-71, 7-10=-71, 2-14=-55, 13-14=-100, 13-35=-406(F=-336), 11-35=-391(F=-336), 8-17=-10
Horz: 1-2=-3, 2-6=1, 7-10=-1
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1374(F) 18=-500(F) 26=-411(F=-800, B=389) 30=213(B) 32=-15(B)

29) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-12, 2-6=-18, 6-7=-12, 7-10=-12, 2-13=-12, 11-13=-281(F=-269)
Horz: 2-6=6
Concentrated Loads (lb)
Vert: 14=-927(F) 18=-500(F) 26=-191(F=-800, B=609) 30=269(B) 32=-29(B)

30) Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-6=-12, 6-7=-12, 7-10=-18, 2-13=-12, 11-13=-281(F=-269)
Horz: 7-10=-6
Concentrated Loads (lb)
Vert: 14=-927(F) 18=-500(F) 26=-191(F=-800, B=609) 30=269(B) 32=-29(B)

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LOAD CASE(S) Standard

31) 3rd Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-45, 6-22=-57, 7-22=-78, 7-10=-45, 2-14=-55, 13-14=-100, 13-35=-591(F=-521), 11-35=-576(F=-521), 8-17=-10
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2243(F=-1956, B=-287) 18=-1250(F) 11=-299(B) 26=-2575(F=-1400, B=-1175) 27=-287(B) 28=-287(B) 29=-287(B) 30=-601(B) 31=-287(B) 32=-534(B) 33=-287(B) 34=-287(B) 35=-287(B) 36=-287(B) 37=-287(B) 38=-287(B)

32) 4th Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-20=-57, 6-20=-78, 6-7=-45, 7-10=-45, 2-14=-55, 13-14=-100, 13-35=-591(F=-521), 11-35=-576(F=-521), 8-17=-10
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2843(F=-2556, B=-287) 18=-875(F) 11=-299(B) 26=-3175(F=-2000, B=-1175) 27=-287(B) 28=-287(B) 29=-287(B) 30=-601(B) 31=-287(B) 32=-534(B) 33=-287(B) 34=-287(B) 35=-287(B) 36=-287(B) 37=-287(B) 38=-287(B)

33) 5th Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-45, 6-23=-78, 7-23=-57, 7-10=-45, 2-14=-55, 13-14=-100, 13-35=-591(F=-521), 11-35=-576(F=-521), 8-17=-10
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2243(F=-1956, B=-287) 18=-1250(F) 11=-299(B) 26=-2575(F=-1400, B=-1175) 27=-287(B) 28=-287(B) 29=-287(B) 30=-601(B) 31=-287(B) 32=-534(B) 33=-287(B) 34=-287(B) 35=-287(B) 36=-287(B) 37=-287(B) 38=-287(B)

34) 6th Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-45, 6-7=-45, 7-24=-78, 10-24=-57, 2-14=-55, 13-14=-100, 13-35=-778(F=-708), 35-36=-763(F=-708), 11-36=-576(F=-521), 8-17=-10
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2243(F=-1956, B=-287) 18=-875(F) 11=-299(B) 26=-2575(F=-1400, B=-1175) 27=-287(B) 28=-287(B) 29=-287(B) 30=-601(B) 31=-287(B) 32=-534(B) 33=-287(B) 34=-287(B) 35=-287(B) 36=-287(B) 37=-287(B) 38=-287(B)

35) 7th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-47, 6-7=-113, 7-10=-47, 2-13=-40, 11-13=-630(F=-590), 8-17=-10
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2271(F=-2200, B=-71) 18=-1500(F) 11=-83(B) 26=-2859(F=-1600, B=-1259) 27=-71(B) 28=-71(B) 29=-71(B) 30=-695(B) 31=-71(B) 32=-596(B) 33=-71(B) 34=-71(B) 35=-71(B) 36=-71(B) 37=-71(B) 38=-71(B)

36) 8th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-19=-63, 6-19=-113, 6-7=-47, 7-25=-113, 10-25=-63, 2-13=-40, 13-39=-880(F=-840), 11-39=-630(F=-590), 8-17=-10
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-3071(F=-3000, B=-71) 18=-1000(F) 11=-83(B) 26=-3659(F=-2400, B=-1259) 27=-71(B) 28=-71(B) 29=-71(B) 30=-695(B) 31=-71(B) 32=-596(B) 33=-71(B) 34=-71(B) 35=-71(B) 36=-71(B) 37=-71(B) 38=-71(B)

37) 9th Unbal.Dead + Snow (Unbal. Left) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-47, 6-22=-63, 7-22=-90, 7-10=-47, 2-13=-40, 11-13=-630(F=-590), 8-17=-10
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2271(F=-2200, B=-71) 18=-1500(F) 11=-83(B) 26=-2859(F=-1600, B=-1259) 27=-71(B) 28=-71(B) 29=-71(B) 30=-695(B) 31=-71(B) 32=-596(B) 33=-71(B) 34=-71(B) 35=-71(B) 36=-71(B) 37=-71(B) 38=-71(B)

38) 10th Unbal.Dead + Snow (Unbal. Left) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-20=-63, 6-20=-90, 6-7=-47, 7-10=-47, 2-13=-40, 11-13=-630(F=-590), 8-17=-10
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-3071(F=-3000, B=-71) 18=-1000(F) 11=-83(B) 26=-3659(F=-2400, B=-1259) 27=-71(B) 28=-71(B) 29=-71(B) 30=-695(B) 31=-71(B) 32=-596(B) 33=-71(B) 34=-71(B) 35=-71(B) 36=-71(B) 37=-71(B) 38=-71(B)

39) 11th Unbal.Dead + Snow (Unbal. Right) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-47, 6-23=-90, 7-23=-63, 7-10=-47, 2-13=-40, 11-13=-630(F=-590), 8-17=-10
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2271(F=-2200, B=-71) 18=-1500(F) 11=-83(B) 26=-2859(F=-1600, B=-1259) 27=-71(B) 28=-71(B) 29=-71(B) 30=-695(B) 31=-71(B) 32=-596(B) 33=-71(B) 34=-71(B) 35=-71(B) 36=-71(B) 37=-71(B) 38=-71(B)

40) 12th Unbal.Dead + Snow (Unbal. Right) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-47, 6-7=-47, 7-24=-90, 10-24=-63, 2-13=-40, 13-36=-880(F=-840), 11-36=-630(F=-590), 8-17=-10
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2271(F=-2200, B=-71) 18=-1000(F) 11=-83(B) 26=-2859(F=-1600, B=-1259) 27=-71(B) 28=-71(B) 29=-71(B) 30=-695(B) 31=-71(B) 32=-596(B) 33=-71(B) 34=-71(B) 35=-71(B) 36=-71(B) 37=-71(B) 38=-71(B)

41) 13th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-45, 6-7=-95, 7-10=-45, 2-14=-55, 13-14=-100, 13-35=-591(F=-521), 11-35=-576(F=-521), 8-17=-10
Drag: 14-17=-10, 8-13=-10

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LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 14=-2243(F=-1956, B=-287) 18=-1250(F) 11=-299(B) 26=-2575(F=-1400, B=-1175) 27=-287(B) 28=-287(B) 29=-287(B) 30=-601(B) 31=-287(B) 32=-534(B) 33=-287(B) 34=-287(B) 35=-287(B) 36=-287(B) 37=-287(B) 38=-287(B)

42) 14th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-19=-57, 6-19=-95, 6-7=-45, 7-25=-95, 10-25=-57, 2-14=-55, 13-14=-100, 13-35=-778(F=-708), 35-39=-763(F=-708), 11-39=-576(F=-521), 8-17=-10
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2843(F=-2556, B=-287) 18=-875(F) 11=-299(B) 26=-3175(F=-2000, B=-1175) 27=-287(B) 28=-287(B) 29=-287(B) 30=-601(B) 31=-287(B) 32=-534(B) 33=-287(B) 34=-287(B) 35=-287(B) 36=-287(B) 37=-287(B) 38=-287(B)

43) 15th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-53, 2-6=-56, 6-7=-95, 7-10=-39, 2-14=-55, 13-14=-100, 13-35=-600(F=-530), 11-35=-585(F=-530), 8-17=-10
Horz: 1-2=7, 2-6=11, 7-10=6
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2014(F) 18=-1250(F) 26=-1115(F=-1400, B=285) 30=184(B) 32=-15(B)

44) 16th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-65, 2-19=-68, 6-19=-105, 6-7=-46, 7-25=-88, 10-25=-51, 2-14=-55, 13-14=-100, 13-35=-787(F=-717), 35-39=-772(F=-717), 11-39=-585(F=-530), 8-17=-10
Horz: 1-2=7, 2-6=11, 7-10=6
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2614(F) 18=-875(F) 26=-1715(F=-2000, B=285) 30=184(B) 32=-15(B)

45) 17th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-35, 2-6=-39, 6-7=-95, 7-10=-56, 2-14=-55, 13-14=-100, 13-35=-600(F=-530), 11-35=-585(F=-530), 8-17=-10
Horz: 1-2=-10, 2-6=-6, 7-10=-11
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2014(F) 18=-1250(F) 26=-1115(F=-1400, B=285) 30=184(B) 32=-15(B)

46) 18th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-48, 2-19=-51, 6-19=-88, 6-7=-46, 7-25=-105, 10-25=-68, 2-14=-55, 13-14=-100, 13-35=-787(F=-717), 35-39=-772(F=-717), 11-39=-585(F=-530), 8-17=-10
Horz: 1-2=-10, 2-6=-6, 7-10=-11
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2614(F) 18=-875(F) 26=-1715(F=-2000, B=285) 30=184(B) 32=-15(B)

47) 19th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-42, 2-6=-46, 6-7=-95, 7-10=-46, 2-14=-55, 13-14=-100, 13-35=-594(F=-524), 11-35=-579(F=-524), 8-17=-10
Horz: 1-2=-3, 2-6=1, 7-10=-1
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1974(F) 18=-1250(F) 26=-1115(F=-1400, B=285) 30=184(B) 32=-15(B)

48) 20th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-54, 2-19=-58, 6-19=-95, 6-7=-46, 7-25=-95, 10-25=-58, 2-14=-55, 13-14=-100, 13-35=-781(F=-711), 35-39=-766(F=-711), 11-39=-579(F=-524), 8-17=-10
Horz: 1-2=-3, 2-6=1, 7-10=-1
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2574(F) 18=-875(F) 26=-1715(F=-2000, B=285) 30=184(B) 32=-15(B)

49) 21st Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-42, 2-6=-46, 6-7=-95, 7-10=-46, 2-14=-55, 13-14=-100, 13-35=-594(F=-524), 11-35=-579(F=-524), 8-17=-10
Horz: 1-2=-3, 2-6=1, 7-10=-1
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1974(F) 18=-1250(F) 26=-1115(F=-1400, B=285) 30=184(B) 32=-15(B)

50) 22nd Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-54, 2-19=-58, 6-19=-95, 6-7=-46, 7-25=-95, 10-25=-58, 2-14=-55, 13-14=-100, 13-35=-781(F=-711), 35-39=-766(F=-711), 11-39=-579(F=-524), 8-17=-10
Horz: 1-2=-3, 2-6=1, 7-10=-1
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2574(F) 18=-875(F) 26=-1715(F=-2000, B=285) 30=184(B) 32=-15(B)
51) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-80, 6-7=-80, 7-10=-40, 2-13=-40, 11-13=-380(F=-340), 8-17=-10
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1471(F=-1400, B=-71) 18=-500(F) 11=-83(B) 26=-1986(F=-800, B=-1186) 27=-71(B) 28=-71(B) 29=-71(B) 30=-756(B) 31=-71(B) 32=-752(B) 33=-71(B) 34=-71(B) 35=-71(B) 36=-71(B) 37=-71(B) 38=-71(B)
52) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-40, 6-7=-80, 7-10=-80, 2-13=-40, 11-13=-380(F=-340), 8-17=-10
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1471(F=-1400, B=-71) 18=-500(F) 11=-83(B) 26=-1986(F=-800, B=-1186) 27=-71(B) 28=-71(B) 29=-71(B) 30=-756(B) 31=-71(B) 32=-752(B) 33=-71(B) 34=-71(B) 35=-71(B) 36=-71(B) 37=-71(B) 38=-71(B)
53) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 6-7=-70, 7-10=-40, 2-14=-55, 13-14=-100, 13-35=-403(F=-333), 11-35=-388(F=-333), 8-17=-10
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1643(F=-1356, B=-287) 18=-500(F) 11=-299(B) 26=-1921(F=-800, B=-1121) 27=-287(B) 28=-287(B) 29=-287(B) 30=-647(B) 31=-287(B) 32=-651(B) 33=-287(B) 34=-287(B) 35=-287(B) 36=-287(B) 37=-287(B) 38=-287(B)
54) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-40, 6-7=-70, 7-10=-70, 2-14=-55, 13-14=-100, 13-35=-403(F=-333), 11-35=-388(F=-333), 8-17=-10
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1643(F=-1356, B=-287) 18=-500(F) 11=-299(B) 26=-1921(F=-800, B=-1121) 27=-287(B) 28=-287(B) 29=-287(B) 30=-647(B) 31=-287(B) 32=-651(B) 33=-287(B) 34=-287(B) 35=-287(B) 36=-287(B) 37=-287(B) 38=-287(B)
55) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-6=-7, 6-21=12, 7-21=3, 7-10=6, 2-13=-12, 11-13=-262(F=-250), 8-17=-6
Horz: 1-2=-17, 2-6=-5, 7-10=17
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-800(F) 18=-500(F) 26=-2029(F=-800, B=-1229) 30=-713(B) 32=-453(B)
56) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=1, 2-6=6, 6-21=3, 7-21=12, 7-10=-7, 2-13=-12, 11-13=-262(F=-250), 8-17=-6
Horz: 1-2=-13, 2-6=-17, 7-10=5
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-800(F) 18=-500(F) 26=-2029(F=-800, B=-1229) 30=-713(B) 32=-453(B)
57) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-50, 2-6=-54, 6-7=-41, 7-10=-32, 2-13=-40, 11-13=-365(F=-325), 8-17=-10
Horz: 1-2=10, 2-6=14, 7-10=8
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1301(F) 18=-500(F) 26=-2001(F=-800, B=-1201) 30=-685(B) 32=-425(B)
58) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-6=-32, 6-7=-41, 7-10=-54, 2-13=-40, 11-13=-365(F=-325), 8-17=-10
Horz: 1-2=-13, 2-6=-8, 7-10=-14
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1301(F) 18=-500(F) 26=-2001(F=-800, B=-1201) 30=-685(B) 32=-425(B)
59) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=25, 2-6=12, 6-7=12, 7-10=12, 2-13=-12, 11-13=-262(F=-250), 8-17=-6
Horz: 1-2=-37, 2-6=-24, 7-10=24
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-800(F) 18=-500(F) 26=-2029(F=-800, B=-1229) 30=-713(B) 32=-453(B)
60) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-6=-1, 6-7=-1, 7-10=-1, 2-13=-12, 11-13=-272(F=-260), 8-17=-6
Horz: 1-2=-24, 2-6=-11, 7-10=11
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-869(F) 18=-500(F) 26=-2029(F=-800, B=-1229) 30=-713(B) 32=-453(B)

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LOAD CASE(S) Standard

61) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-6=-41, 6-7=-41, 7-10=-41, 2-13=-40, 11-13=-357(F=-317), 8-17=-10
Horz: 1-2=-4, 2-6=1, 7-10=-1
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1249(F) 18=-500(F) 26=-2001(F=-800, B=-1201) 30=-685(B) 32=-425(B)

62) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-6=-41, 6-7=-41, 7-10=-41, 2-13=-40, 11-13=-357(F=-317), 8-17=-10
Horz: 1-2=-4, 2-6=1, 7-10=-1
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1249(F) 18=-500(F) 26=-2001(F=-800, B=-1201) 30=-685(B) 32=-425(B)

63) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-65, 2-6=-68, 6-7=-65, 7-10=-51, 2-14=-55, 13-14=-100, 13-35=-600(F=-530), 11-35=-585(F=-530), 8-17=-10
Horz: 1-2=7, 2-6=11, 7-10=6
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2014(F) 18=-875(F) 26=-2710(F=-1400, B=-1310) 30=-790(B) 32=-537(B)

64) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-48, 2-6=-51, 6-7=-65, 7-10=-68, 2-14=-55, 13-14=-100, 13-35=-600(F=-530), 11-35=-585(F=-530), 8-17=-10
Horz: 1-2=-10, 2-6=-6, 7-10=-11
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2014(F) 18=-875(F) 26=-2710(F=-1400, B=-1310) 30=-790(B) 32=-537(B)

65) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-54, 2-6=-58, 6-7=-65, 7-10=-58, 2-14=-55, 13-14=-100, 13-35=-594(F=-524), 11-35=-579(F=-524), 8-17=-10
Horz: 1-2=-3, 2-6=1, 7-10=-1
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1974(F) 18=-875(F) 26=-2710(F=-1400, B=-1310) 30=-790(B) 32=-537(B)

66) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-54, 2-6=-58, 6-7=-65, 7-10=-58, 2-14=-55, 13-14=-100, 13-35=-594(F=-524), 11-35=-579(F=-524), 8-17=-10
Horz: 1-2=-3, 2-6=1, 7-10=-1
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1974(F) 18=-875(F) 26=-2710(F=-1400, B=-1310) 30=-790(B) 32=-537(B)

67) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-77, 2-6=-81, 6-7=-71, 7-10=-64, 2-14=-55, 13-14=-100, 13-35=-412(F=-342), 11-35=-397(F=-342), 8-17=-10
Horz: 1-2=7, 2-6=11, 7-10=6
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1414(F) 18=-500(F) 26=-2206(F=-800, B=-1406) 30=-795(B) 32=-633(B)

68) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-60, 2-6=-64, 6-7=-71, 7-10=-81, 2-14=-55, 13-14=-100, 13-35=-412(F=-342), 11-35=-397(F=-342), 8-17=-10
Horz: 1-2=-10, 2-6=-6, 7-10=-11
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1414(F) 18=-500(F) 26=-2206(F=-800, B=-1406) 30=-795(B) 32=-633(B)

69) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-67, 2-6=-71, 6-7=-71, 7-10=-71, 2-14=-55, 13-14=-100, 13-35=-406(F=-336), 11-35=-391(F=-336), 8-17=-10
Horz: 1-2=-3, 2-6=1, 7-10=-1
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1374(F) 18=-500(F) 26=-2206(F=-800, B=-1406) 30=-795(B) 32=-633(B)

70) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-67, 2-6=-71, 6-7=-71, 7-10=-71, 2-14=-55, 13-14=-100, 13-35=-406(F=-336), 11-35=-391(F=-336), 8-17=-10
Horz: 1-2=-3, 2-6=1, 7-10=-1
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1374(F) 18=-500(F) 26=-2206(F=-800, B=-1406) 30=-795(B) 32=-633(B)

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LOAD CASE(S) Standard

71) Reversal: Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-12, 2-6=-18, 6-7=-12, 7-10=-12, 2-13=-12, 11-13=-281(F=-269)
Horz: 2-6=6
Concentrated Loads (lb)
Vert: 14=-927(F) 18=-500(F) 26=-1955(F=-800, B=-1155) 30=-667(B) 32=-408(B)

72) Reversal: Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-6=-12, 6-7=-12, 7-10=-18, 2-13=-12, 11-13=-281(F=-269)
Horz: 7-10=-6
Concentrated Loads (lb)
Vert: 14=-927(F) 18=-500(F) 26=-1955(F=-800, B=-1155) 30=-667(B) 32=-408(B)

73) Reversal: 15th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-53, 2-6=-56, 6-7=-95, 7-10=-39, 2-14=-55, 13-14=-100, 13-35=-600(F=-530), 11-35=-585(F=-530), 8-17=-10
Horz: 1-2=7, 2-6=11, 7-10=6
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2014(F) 18=-1250(F) 26=-2710(F=-1400, B=-1310) 30=-790(B) 32=-537(B)

74) Reversal: 16th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-65, 2-19=-68, 6-19=-105, 6-7=-46, 7-25=-88, 10-25=-51, 2-14=-55, 13-14=-100, 13-35=-787(F=-717), 35-39=-772(F=-717), 11-39=-585(F=-530), 8-17=-10
Horz: 1-2=7, 2-6=11, 7-10=6
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2614(F) 18=-875(F) 26=-3310(F=-2000, B=-1310) 30=-790(B) 32=-537(B)

75) Reversal: 17th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-35, 2-6=-39, 6-7=-95, 7-10=-56, 2-14=-55, 13-14=-100, 13-35=-600(F=-530), 11-35=-585(F=-530), 8-17=-10
Horz: 1-2=-10, 2-6=-6, 7-10=-11
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2014(F) 18=-1250(F) 26=-2710(F=-1400, B=-1310) 30=-790(B) 32=-537(B)

76) Reversal: 18th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-48, 2-19=-51, 6-19=-88, 6-7=-46, 7-25=-105, 10-25=-68, 2-14=-55, 13-14=-100, 13-35=-787(F=-717), 35-39=-772(F=-717), 11-39=-585(F=-530), 8-17=-10
Horz: 1-2=-10, 2-6=-6, 7-10=-11
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2614(F) 18=-875(F) 26=-3310(F=-2000, B=-1310) 30=-790(B) 32=-537(B)

77) Reversal: 19th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-42, 2-6=-46, 6-7=-95, 7-10=-46, 2-14=-55, 13-14=-100, 13-35=-594(F=-524), 11-35=-579(F=-524), 8-17=-10
Horz: 1-2=-3, 2-6=1, 7-10=-1
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1974(F) 18=-1250(F) 26=-2710(F=-1400, B=-1310) 30=-790(B) 32=-537(B)

78) Reversal: 20th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-54, 2-19=-58, 6-19=-95, 6-7=-46, 7-25=-95, 10-25=-58, 2-14=-55, 13-14=-100, 13-35=-781(F=-711), 35-39=-766(F=-711), 11-39=-579(F=-524), 8-17=-10
Horz: 1-2=-3, 2-6=1, 7-10=-1
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-2574(F) 18=-875(F) 26=-3310(F=-2000, B=-1310) 30=-790(B) 32=-537(B)

79) Reversal: 21st Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-42, 2-6=-46, 6-7=-95, 7-10=-46, 2-14=-55, 13-14=-100, 13-35=-594(F=-524), 11-35=-579(F=-524), 8-17=-10
Horz: 1-2=-3, 2-6=1, 7-10=-1
Drag: 14-17=-10, 8-13=-10
Concentrated Loads (lb)
Vert: 14=-1974(F) 18=-1250(F) 26=-2710(F=-1400, B=-1310) 30=-790(B) 32=-537(B)

80) Reversal: 22nd Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-54, 2-19=-58, 6-19=-95, 6-7=-46, 7-25=-95, 10-25=-58, 2-14=-55, 13-14=-100, 13-35=-781(F=-711), 35-39=-766(F=-711), 11-39=-579(F=-524), 8-17=-10

Horz: 1-2=-3, 2-6=1, 7-10=-1

Drag: 14-17=-10, 8-13=-10

Concentrated Loads (lb)

Vert: 14=-2574(F) 18=-875(F) 26=-3310(F=-2000, B=-1310) 30=-790(B) 32=-537(B)

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	TSGE01	GABLE	1	1	Job Reference (optional)

Longleaf Truss Company, West End, N.C.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:54 2024 Page 1
ID:22cFc0egeM617Unx03s86jyEKXo-Otry9MxEJMs40eXts?Kplu7tyFelOFTP0LLditzPmi6

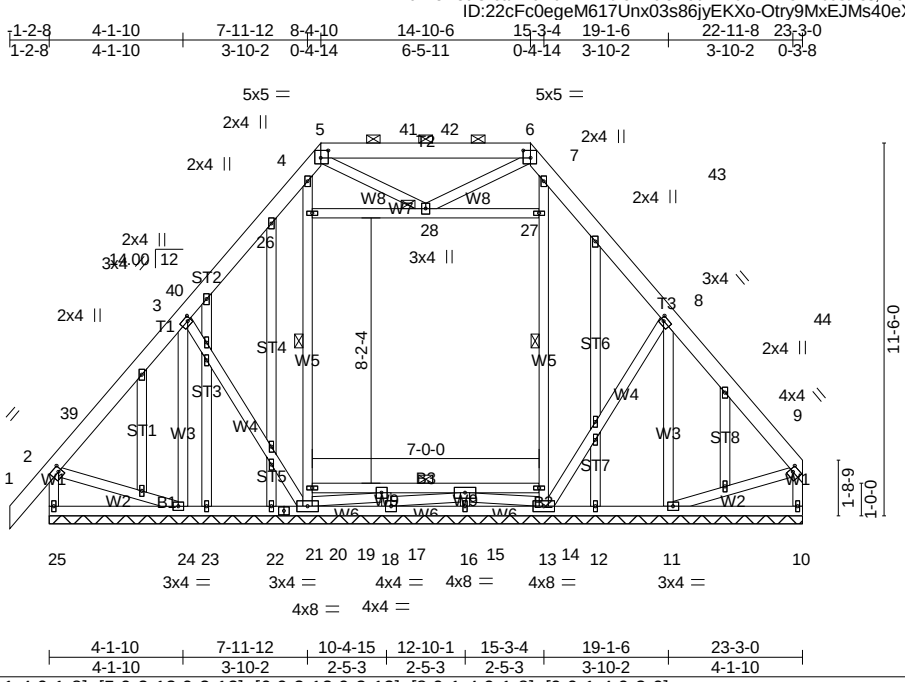

Plate Offsets (X,Y)-- [2:0-1-4,0-2-0], [3:0-1-4,0-1-8], [5:0-2-12,0-2-12], [6:0-2-12,0-2-12], [8:0-1-4,0-1-8], [9:0-1-4,0-2-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	0.00	1	n/r	120	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	0.00	1	n/r	120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S							Weight: 286 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.1 *Except*
	B3: 2x4 SP No.3
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.): 5-6.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 14-19
WEBS	1 Row at midpt 19-26, 14-27
JOINTS	1 Brace at Jt(s): 28

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

REACTIONS. All bearings 23-3-0.
(lb) - Max Horz 25=280(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 24, 20, 13, 11, 23
Max Grav All reactions 250 lb or less at joint(s) 22, 12 except 25=482(LC 51), 24=372(LC 44), 20=581(LC 44), 13=610(LC 46), 11=334(LC 46), 10=405(LC 43), 18=316(LC 17), 16=319(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-39=-373/0, 3-39=-319/31, 3-40=-395/20, 4-40=-324/50, 4-5=-418/66, 5-41=-288/53, 41-42=-288/53, 6-42=-288/53, 6-7=-418/66, 7-43=-326/43, 8-43=-396/15, 8-44=-323/11, 9-44=-365/0, 2-25=-445/1, 9-10=-365/0
BOT CHORD 24-25=-259/271, 23-24=-111/276, 22-23=-111/276, 21-22=-111/276, 20-21=-111/276
WEBS 19-20=-391/0, 19-26=-342/28, 13-14=-370/0, 14-27=-328/15

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, 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 1.00 times flat roof load of 11.6 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 requires continuous bottom chord bearing.
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.

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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, with BCDL = 10.0psf.
13) Ceiling dead load (5.0 psf) on member(s). 26-28, 27-28; Wall dead load (5.0psf) on member(s).19-26, 14-27
14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 20, 13, 11, 23.
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.
17) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard