

# GENERAL NOTES

# MONTREAL



PRELIM
FINAL
04-13-2021
REVISION

MONTREAL  
CRAWLSPACE



advancedhouseplans  
www.advancedhouseplans.com | 844.675.9839

ADVANCED HOUSE PLANS IS A PROFESSIONAL RESIDENTIAL DESIGN FIRM  
LOCATION: CHAPEL HILL, NC. BECAUSE SITE CONDITIONS VARY, AHP CANNOT  
GUARANTEE THAT THESE PLANS SHOULD NOT BE IN VIOLATION WITH THE  
CONSTRUCTION FROM THESE PLANS SHOULD NOT BE IN VIOLATION WITH THE  
LATEST LOCAL, STATE, FEDERAL, OR INTERNATIONAL BUILDING CODES. THE  
PURCHASER OF THESE PLANS IS RESPONSIBLE FOR VERIFYING ALL APPLICABLE  
CODES & PERMITS REQUIREMENTS PRIOR TO CONSTRUCTION.  
AHP IS NOT RESPONSIBLE FOR ANY VIOLATIONS OF ANY APPLICABLE  
CODES OR PERMITS THAT MAY OCCUR DURING OR AFTER THE BUILDING PROCESS.

© 2021  
**29935**  
SHEET  
1  
OF  
1

SCAN TO CONNECT WITH  
ADVANCED HOUSE PLANS



SCAN TO RECEIVE  
OUR LATEST DESIGNS



SCAN TO VISIT  
OUR WEBSITE



This plan was designed and drafted BY Advanced House Plans to meet average conditions and codes in the State of Nebraska at the time it was designed. Because codes and requirements can change and may vary from jurisdiction to jurisdiction, AHP cannot warrant compliance with any specific code or regulation. Consult your local building official to determine the suitability of these plans for your specific site and application. This plan can be adapted to your local building codes and requirements, however, it is the responsibility of the purchaser and/or builder of this plan to see that the structure is built in strict compliance with all governing municipal codes (city, county, state and federal). The purchaser and/or builder of this plan releases the designer from any claims or lawsuits that may arise during the construction of this structure or anytime thereafter.

\* If the contractor or sub-contractor, in the course of their work finds any discrepancies between the plan and the physical conditions of the site or structure, or any errors in the plans or specifications, it shall be their responsibility to immediately inform AHP, who will promptly verify and if necessary correct the working drawings. Any work done after such discovery will be done at the contractor's expense.

\* Only the purchaser of this plan has permission to build this plan. The purchaser is given permission to reproduce the drawings only as required for such construction. The purchaser also has permission to modify this plan. No permission is given to any party to claim copyright on the original or modified plan. The modified plans shall remain subject to the license and may not be sold, distributed or otherwise transferred without the express written consent of Advanced House Plans. Infringing upon Advanced House Plans copyright through reproduction, distribution, construction or reworking a design is punishable by law with fine up to \$150,000 as defined by architectural copyright laws.

**DESIGN LOADS:**

- Ultimate design wind speed: 115 mph, Exposure Category: B
- Seismic Design Category: A

Floor:	Roof:	Ceiling:
40 psf. live	30 psf. live	10 psf. live
15 psf. dead	10 psf. dead	5 psf. dead

- Soil bearing Capacity - 1500 psf.
- Live loads, dead loads, wind loads, snow loads, lateral loads, seismic zoning and any specialty loading conditions will need to be confirmed before construction and adjustments to plans made accordingly. See your local building officials for verification of your specific load data, zoning restrictions and site conditions.

**CONCRETE AND FOUNDATIONS:**

- All foundation walls and slabs on grade shall be 3000 PSI (28-day compressive strength concrete), unless noted otherwise.
- All interior slabs on grade shall bear on 4" compacted granular fill with 6 mil. polyethylene vapor barrier underneath.
- Provide proper excavation and control joints as per local requirements.
- All 36" x 36" x 18" concrete pads to have (3) #5 rods each way.
- All 48" x 48" x 24" concrete pads to have (4) #5 rods each way.
- Foundation walls are not to be backfilled until properly braced.
- Verify depth of frost footings with your local codes.
- Provide termite protection as required by HUD minimum property standards.
- Foundation bolts must be anchored to sill plate with 5/8" bolts embedded 15" in concrete walls.
- For window openings in conc. wall, provide #5 bars #4" o.c. (two total) w/2" clearance from top & sides of o.p.g. for joint & lintel reinforcing. Extend reinforcing a minimum of 2 post-opening edges.

**STEEL:**

- All structural steel for beams and plates shall comply with ASTM specification A-36.
- All structural steel for steel columns shall comply with ASTM specification A-53 Grade B or A-501.
- All reinforcing steel for concrete shall comply with ASTM specification A-615 Grade 60.
- Provide steel shims in all beam pockets.
- Steel columns are to be 3" I.D. (inside diameter) unless noted otherwise.

**FRAMING MEMBERS:**

- Unless noted otherwise, all framing lumber shall have the following characteristics:  
F<sub>b</sub> = 1000 psi F<sub>v</sub> = 75 psi E = 1,400,000 psi
- Contractor to confirm the size, spacing and stress characteristics of all framing and structural members to meet your local code requirements.
- Wall bracing method assumed as CB-WSP. Since braced wall line spacing and braced wall panel calculations vary by location, purchaser will need to consult a local professional for specific wall bracing calculations and diagrams.
- Hide sizes and locations in Glulam or laminated veneered Lumber (L.V.L.) members are to be confirmed by a professional engineer.
- Any structural or framing members not indicated on the plan are to be sized by contractor.
- Double floor joists under all partition walls, unless noted otherwise.
- All sub-flooring is assumed to be 3/4" thick, glued & nailed.
- All exterior walls are dimensioned to outside of 1/2" sheathing.
- Calculated dimensions take precedence over scaled dimensions.
- All angled walls on floor plans are at 45 degree angle, unless otherwise noted.
- Laterally unsupported walls 12'-0" high or higher shall be 2x6 and balloon framed unless noted otherwise.
- Unless noted otherwise, above all openings that are:  
(1) Load bearing and less than or equal to 3 ft. ....use 4x6.  
(2) Load bearing and more than 3 ft. ....use (2) 2x12 with 1/2" Plywood between.  
(3) Non-load bearing and less than or equal to 6 ft. ....use 4x6.  
(4) Non-load bearing and more than 6 ft. ....use (2) 2x12 with 1/2" Plywood between.  
(5) All exterior openings use (2) 2x12 with 1/2" Plywood between.
- All trusses to be engineered by truss manufacturer according to the loading indicated on this plan.
- All exterior corners shall be braced in each direction with let-in diagonal bracing or plywood.
- Flange (1) row of 1" x 3" cross-bridging on all spans over 8'-0" and (2) row of 1" x 3" cross-bridging on all spans over 16'-0".
- Collar ties are to be spaced 4'-0" o.c.
- All purlins and kickers are to be 2x6, unless noted otherwise.
- Any hip or valley rafters over a 28'-0" span are to be Laminated Veneer Lumber (L.V.L.).

**MISC. NOTES:**

- Pre-fabricated fireplaces and flues are to be U.L. approved and installed as per manufacturer's specifications.
- All materials, supplies and equipment to be installed as per manufacturer's specifications and per local codes and requirements.
- Provide proper insulation for all plumbing.
- 1/2" water-resistant drywall around showers, tubs and whirlpools.
- 1/2" drywall on interior walls and ceilings.
- 5/8" type "X" fire code drywall on garage walls and ceilings.
- When no brand is specified windows are called out by glass size only.
- In dwelling units, where the top of the sill of an operable window opening unit is located less than 24 inches above the finished floor and greater than 12 inches above the finished grade, fall protection must comply with R312.2.
- Window opening control devices on windows serving as a required emergency escape and rescue shall comply with ASTM F2092.
- Windows, if not noted, are assumed to be casements.
- Header heights are labeled to bottom of arched transoms.
- Confirm window openings for your local egress requirements and minimum light and ventilation requirements.
- Headroom at stairs shall have a minimum clearance of 6'-8" high.
- Provide proper handrails at stairs per local codes.
- The mechanical and electrical layouts are suggested only. Consult your mechanical and electrical contractors for exact specifications, locations and sizes.
- Jog flue to rear of ridge as necessary.
- Provide proper wiring for all electrical appliances, mechanical equipment and whirlpools per manufacturer's specifications.
- Air conditioner locations may vary depending on restrictive covenants and codes.



NOTICE TO CONTRACTOR  
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

**APPROVED**  
Limited building only review  
Permit holder responsible for full compliance with the code.

04/23/2024

The purchaser of these plans is given the limited license to reproduce these plans for construction purposes only and further distribution is illegal. Do not scale prints - see dimensions.

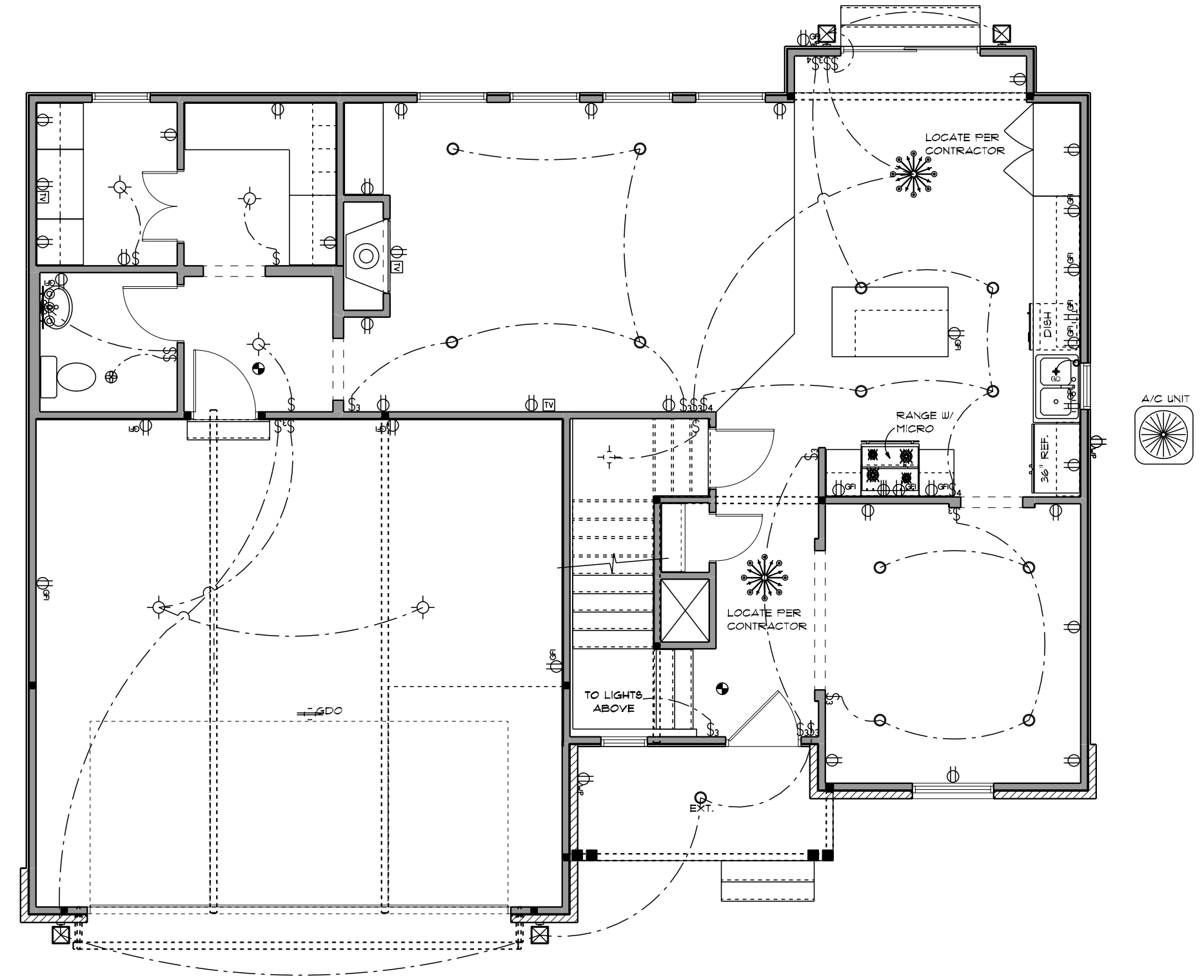




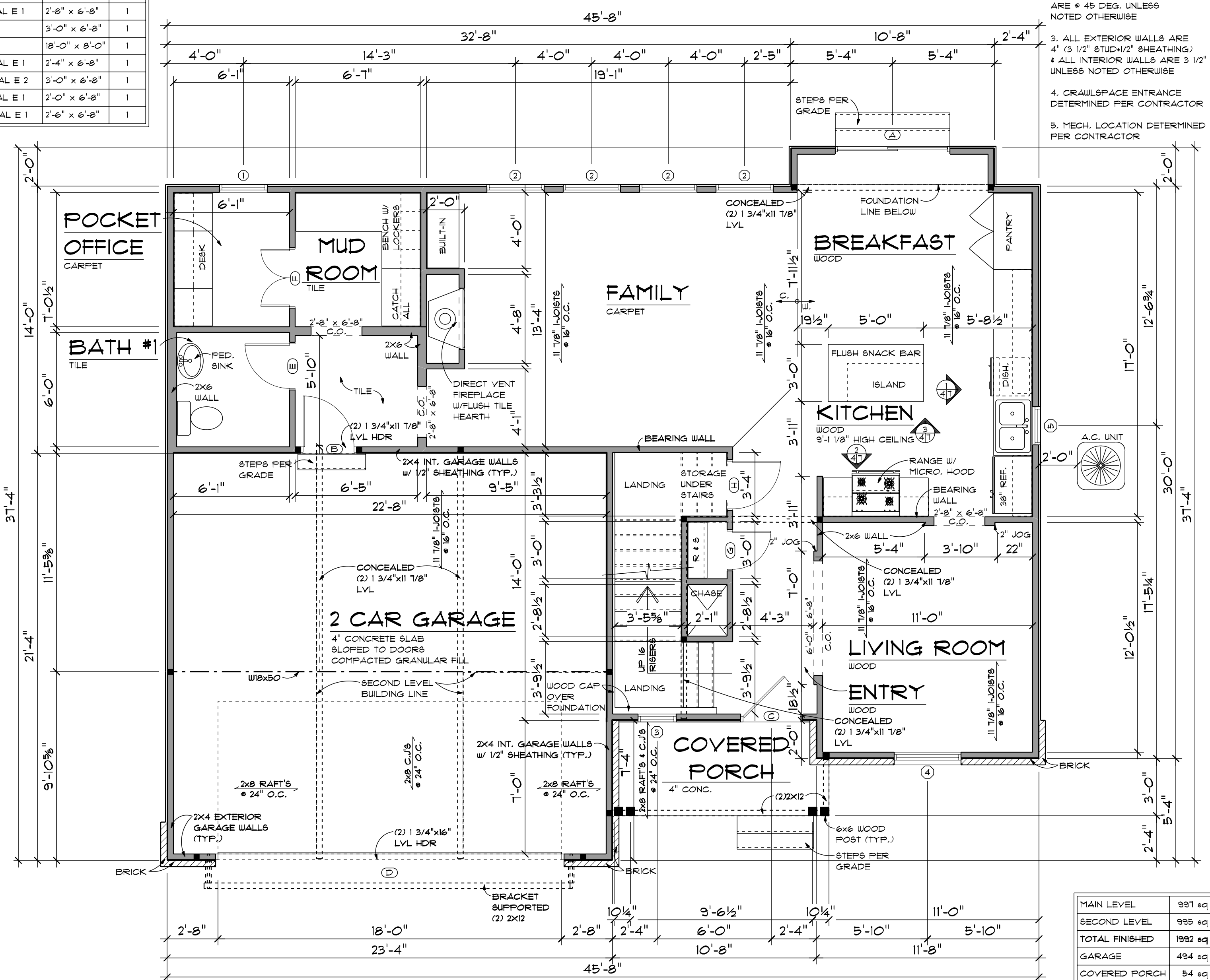
OPENING ID	TYPE	PRODUCT CODE	SIZE	COUNT
1	WINDOW	30X48 CASEMENT 1	2'-6" x 4'-0"	1
2	WINDOW	36X72 CASEMENT 1	3'-0" x 6'-0"	4
3	WINDOW	24X42 CASEMENT 1	2'-0" x 3'-6"	1
4	WINDOW	42X72 CASEMENT 1	3'-6" x 6'-0"	1
5	WINDOW	24X36 CASEMENT 1	2'-0" x 3'-0"	1
A	SLIDING DOOR	12X80 SLIDING GLASS 2	6'-0" x 6'-8"	1
B	DOOR	32X80 COLONIAL E 1	2'-8" x 6'-8"	1
C	DOOR	36X80 GLASS 1	3'-0" x 6'-8"	1
D	GARAGE	26X86 STABLE	18'-0" x 8'-0"	1
E	DOOR	28X80 COLONIAL E 1	2'-4" x 6'-8"	1
F	DOOR	36X80 COLONIAL E 2	3'-0" x 6'-8"	1
G	DOOR	24X80 COLONIAL E 1	2'-0" x 6'-8"	1
H	DOOR	30X80 COLONIAL E 1	2'-6" x 6'-8"	1

- GENERAL NOTES:**
1. ALL MAIN LEVEL WALLS ARE 9'-1 1/8" HIGH UNLESS NOTED OTHERWISE
  2. ALL ANGLED WALLS ARE @ 45 DEG. UNLESS NOTED OTHERWISE
  3. ALL EXTERIOR WALLS ARE 4" (3 1/2" STUD/2" SHEATHING)
  4. ALL INTERIOR WALLS ARE 3 1/2" UNLESS NOTED OTHERWISE
  5. MECH. LOCATION DETERMINED PER CONTRACTOR

ELECTRICAL	COUNT	SYMBOL
CEILING CLASSIC	1	[Symbol]
can light 6inch	12	[Symbol]
ceiling classic	1	[Symbol]
EXTERIOR CAN LIGHT	1	[Symbol]
exterior light 03	4	[Symbol]
GARBAGE DISPOSAL	1	[Symbol]
Garage Door outlet	1	[Symbol]
LIGHT	4	[Symbol]
PLUMBER SWITCH	1	[Symbol]
Smoke Detector	2	[Symbol]
table tv outlet	3	[Symbol]
Fan	1	[Symbol]
light	2	[Symbol]
outlet	29	[Symbol]
outlet 220v	1	[Symbol]
outlet gfi	14	[Symbol]
outlet gfi weatherproof	1	[Symbol]
outlet up	3	[Symbol]
switch	8	[Symbol]
switch 3 way	11	[Symbol]
switch 4 way	3	[Symbol]
wall mounted 03 3 lights	1	[Symbol]



MAIN LEVEL ELECTRICAL PLAN  
SCALE: 3/8" = 1'-0"



MAIN LEVEL FLOOR PLAN  
SCALE: 1/4" = 1'-0"

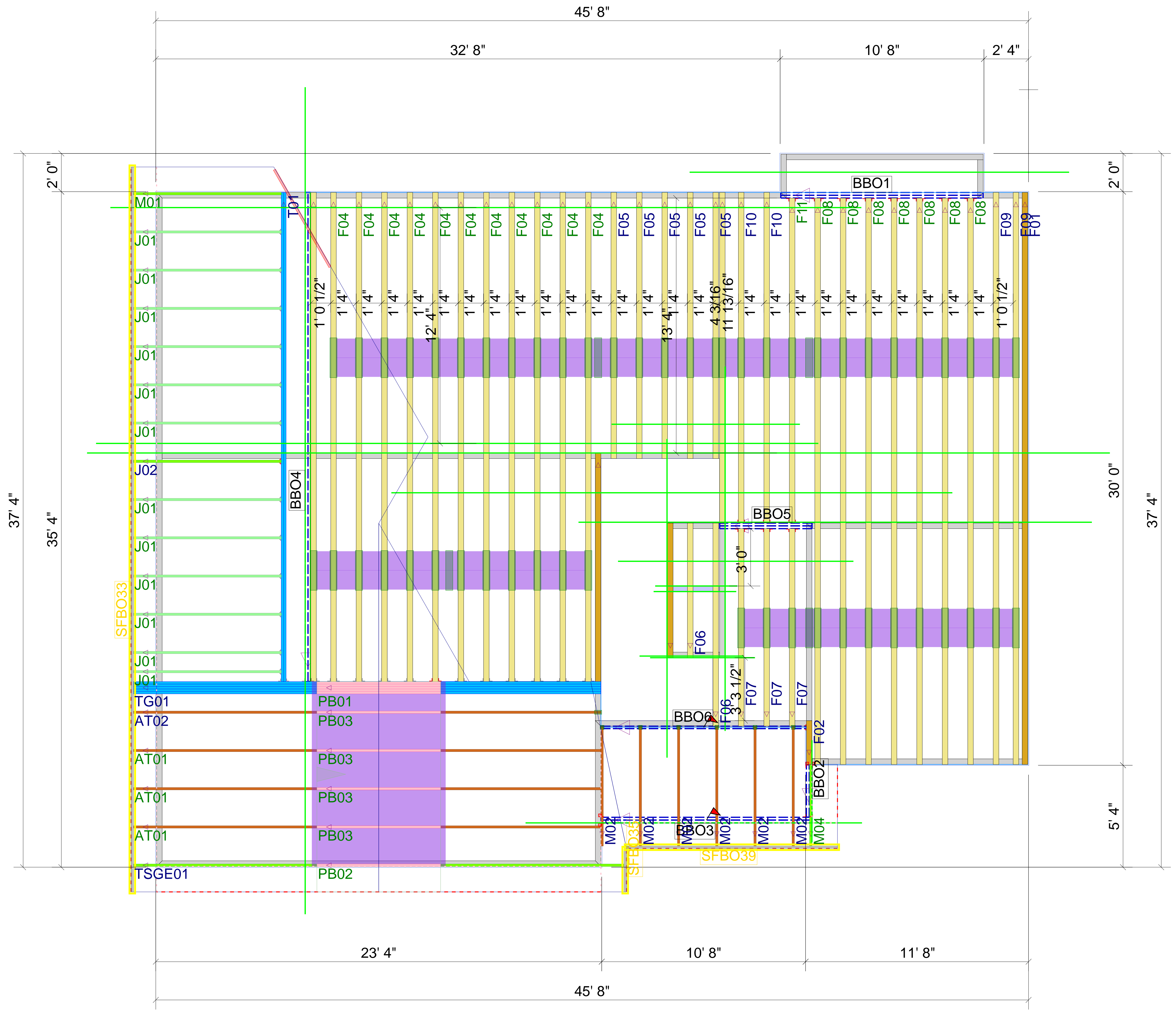
MAIN LEVEL	997 sq ft.
SECOND LEVEL	988 sq ft.
TOTAL FINISHED	1985 sq ft.
GARAGE	494 sq ft.
COVERED PORCH	54 sq ft.







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"

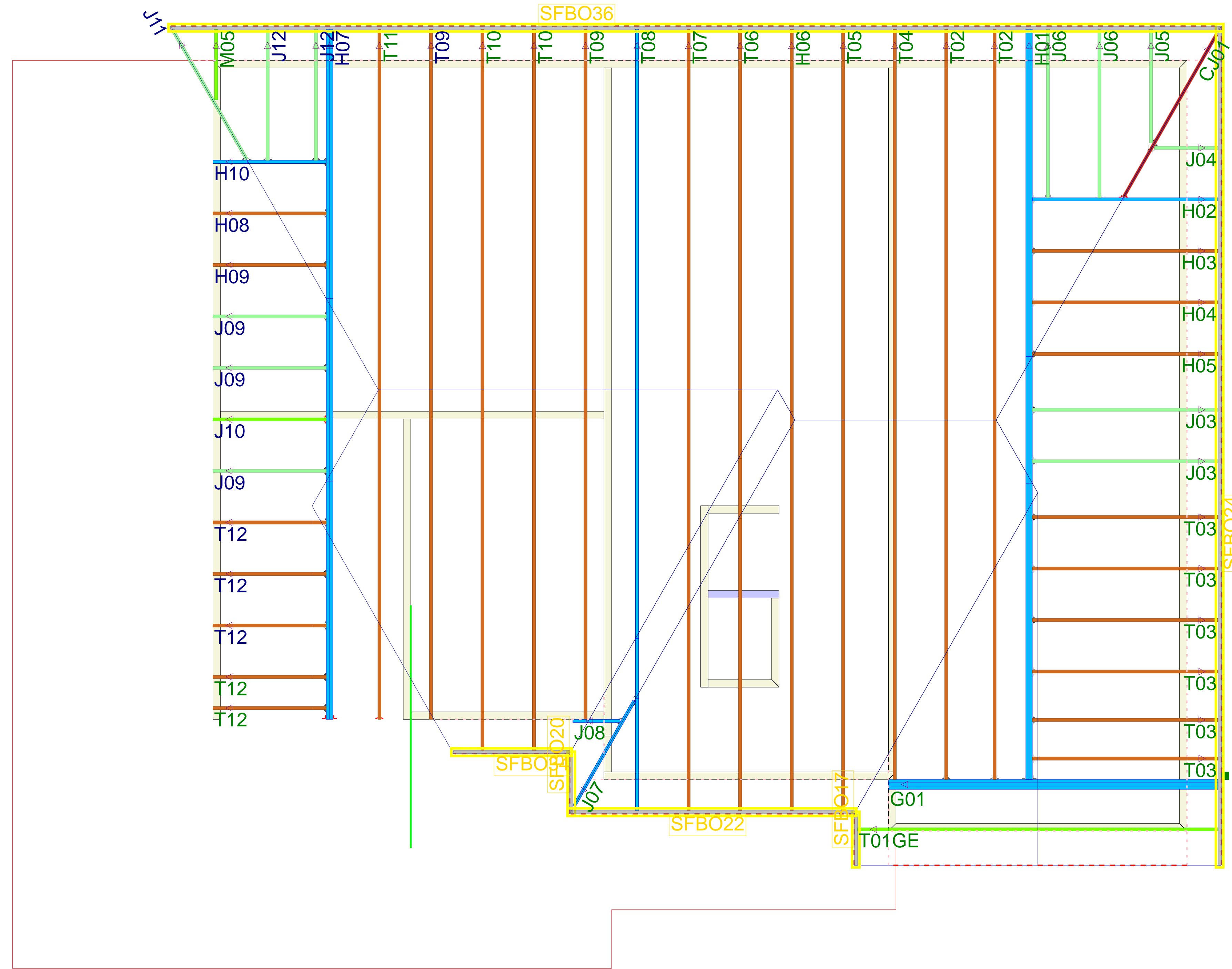
Client: SERVICE BUILDING SUPPLY  
 Project: RAY WICKERS  
 Model: Model  
 Lot #: Subdivision:  
 Order #: P24040749  
 Designer: Justin Clayton  
 Date: 62



**NOTE**  
 IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER OR ARCHITECT TO PROVIDE AN APPROPRIATE CONNECTION FOR TRUSSES TO SUPPORTING STRUCTURE PERFECTIONS 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 WTCAT-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.sbindustry.com/pubs/TTBDRsp-D>



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"

Client: SERVICE BUILDING SUPPLY

Project: RAY WICKERS

Model: Model

Lot #: Subdivision:

Order #: P24040749

Designer: Justin Clayton

Date: 62



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

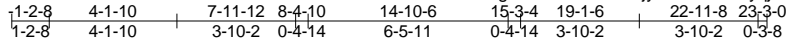
NOTE

IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER OR ARCHITECT TO PROVIDE AN APPROPRIATE CONNECTION FOR TRUSSES TO SUPPORTING STRUCTURE PERFECTIONS 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 WTCAL1-1995 "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/TBDResp-D>

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  
 ID:22cFc0egeM617Unx03s86jyEKXo-sREnyqjt5K8QQ6JTS07AbRc7X6YDUrXo7NnfCzPmjh



Scale = 1:74.6

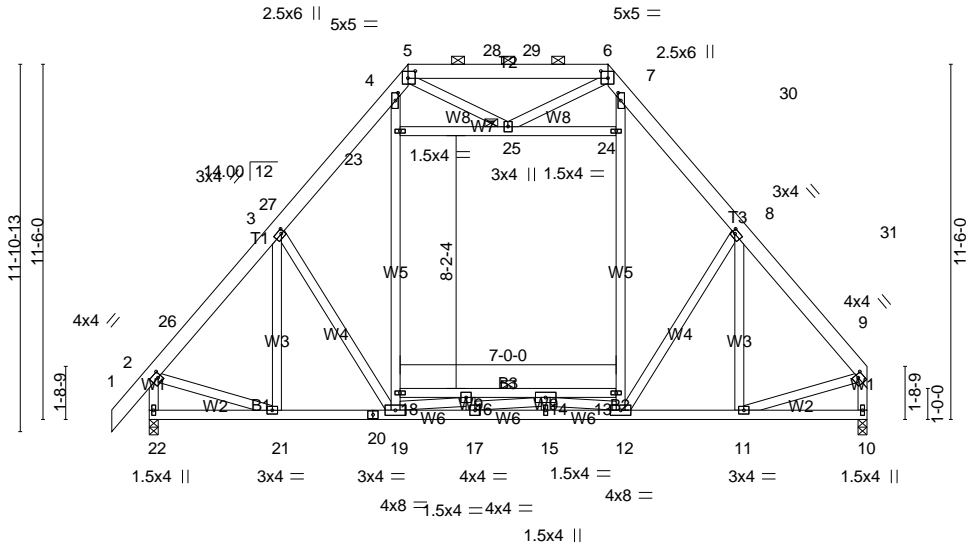


Plate Offsets (X,Y)-- [2:0-1-4,0-2-0], [3:0-1-4,0-1-8], [4:0-3-0,0-1-0], [5:0-2-12,0-2-12], [6:0-2-12,0-2-12], [7:0-3-0,0-1-0], [8:0-1-4,0-1-8], [9:0-1-4,0-2-0]

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

**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)

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 2  
ID:22cFc0egeM617Unx03s86jyEKXo-sREnyqjt5K8QO6JTSH07AbRc7X6YDUrXo7NnfCzPmjh

**NOTES-**

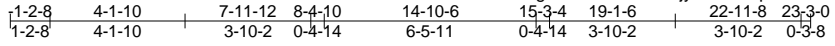
13) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	AT02	Attic	1	1	

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  
 ID:22cFc0egeM617Unx03s86jyEKXo-oqMXNVK7dxO7dQTSzI2BF0WyclguhPRqFRsuj5zPmjf



Scale = 1:70.4

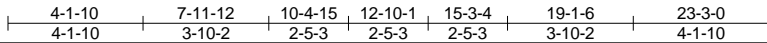
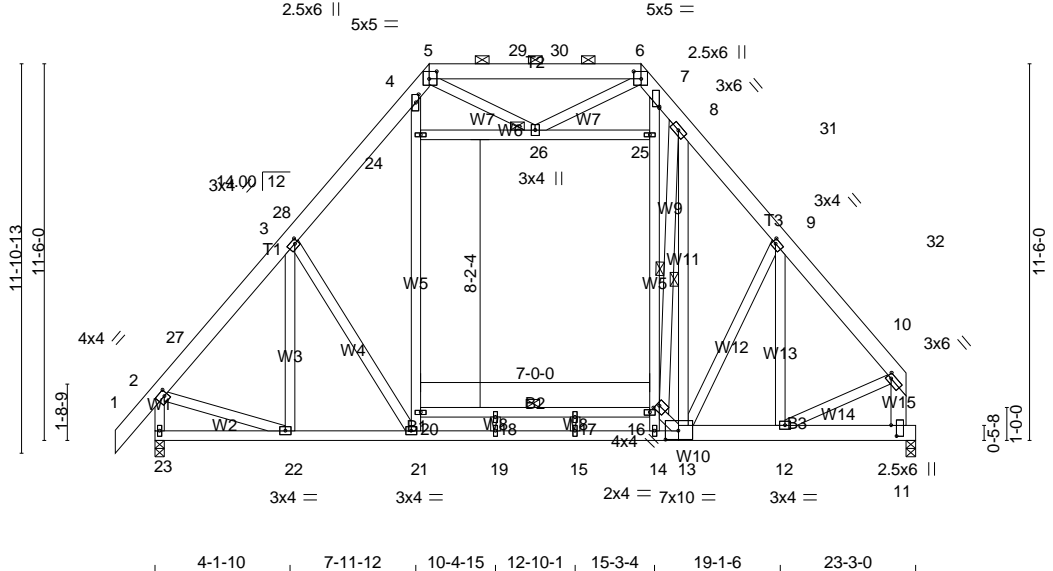


Plate Offsets (X,Y)-- [2:0-1-4,0-2-0], [3:0-1-4,0-1-8], [4:0-3-0,0-1-0], [5:0-2-12,0-2-12], [6:0-2-12,0-2-12], [7:0-0-9,0-0-0], [9:0-1-4,0-1-8], [10:0-1-8,0-1-8], [11:0-4-0,0-2-0], [13:0-4-12,0-3-4], [16:0-1-0,0-2-0]

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

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 16:31:17 2024 Page 2  
ID:22cFc0egeM617Unx03s86jyEKXo-G0wvbrlOFW\_Fa127PZqnE37Mk07QshzU5bRGXzPmje

**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  
 ID:22cFc0egeM617Unx03s86jyEKXo-kCUloBmN9ZertkcEh753KRbKN8YR9QU7jIL?o\_zPmj

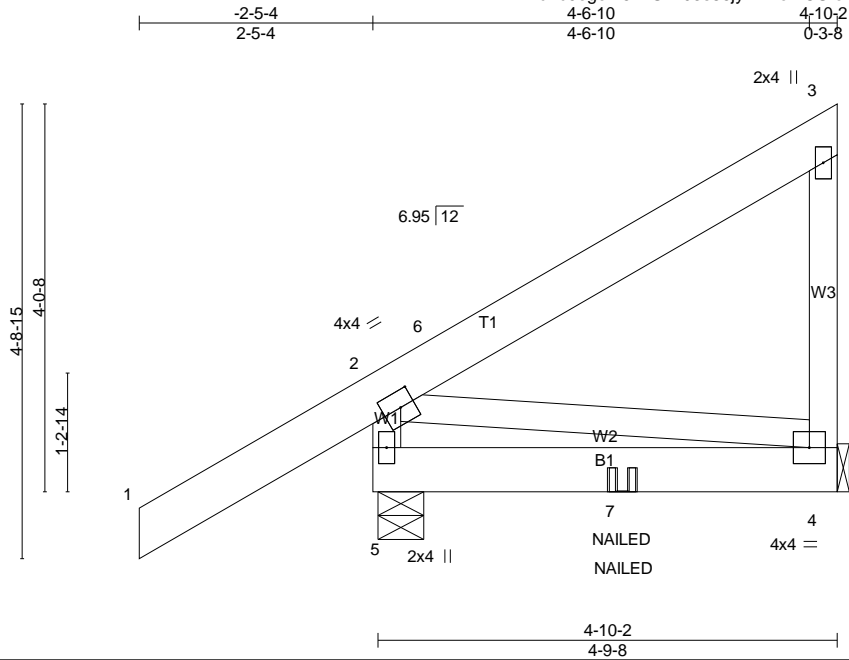


Plate Offsets (X,Y)-- [2:0-1-12,0-2-0]

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

**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 guidelines.
  - 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)

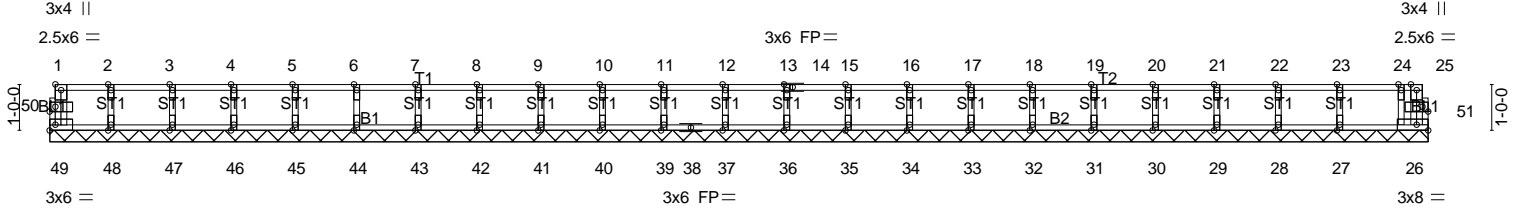
Longleaf Truss Company, West End, N.C.

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  
ID:22cFc0egeM617Unx03s86jyEKXo-9n9QQDoGSU0QkBLpMFeny4DsHMbiMm9ZPjZfPlzPmja

0-1-8

0-1-8

Scale = 1:50.0



29-11-0  
29-11-0

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-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.07	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Horz(CT)	0.00	26	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-R						
	Code IRC2018/TPI2014							
							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-**

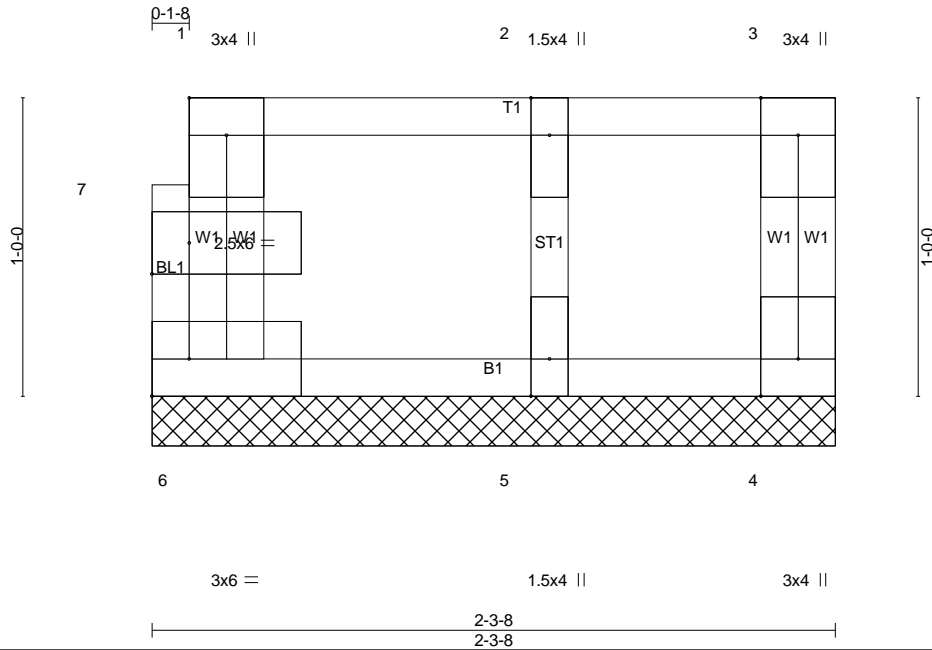
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Plates checked for a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

**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  
 ID:22cFc0egeM617Unx03s86jyEKXo-d\_joeZpuDn8HLLw?wz90UHm2clx45DZjeNJCxlzPmjZ



Scale = 1:7.7

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,0-1-4]										
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.03	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  
ID:22cFc0egeM617Unx03s86jyEKXo-ZMrZ3Eq8iPO?bf4O1OBUZirFIZrZ2E?5goJ0dzPmjX

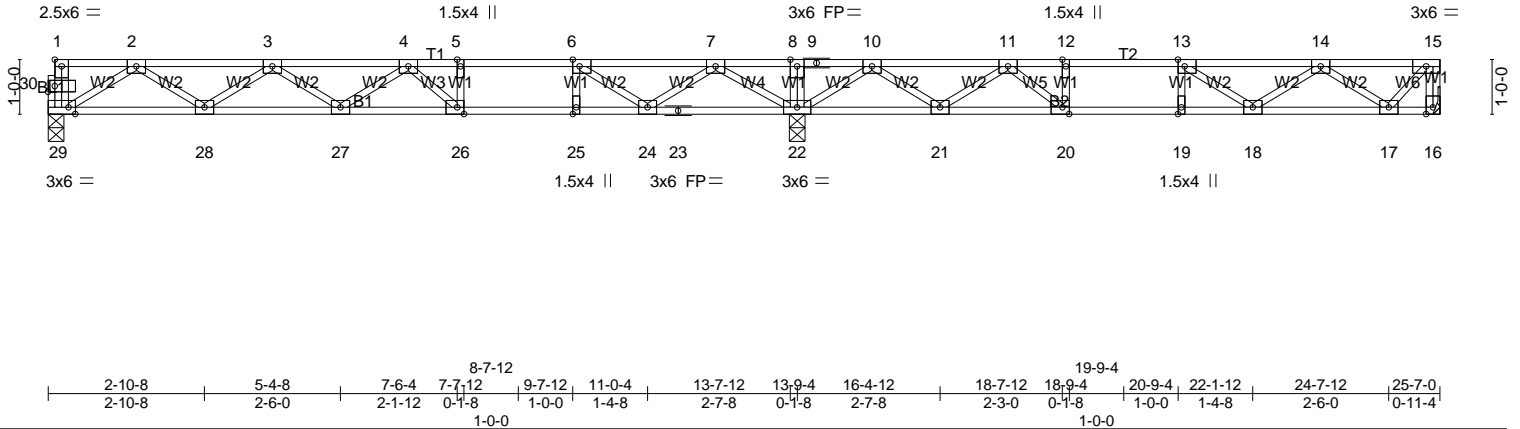
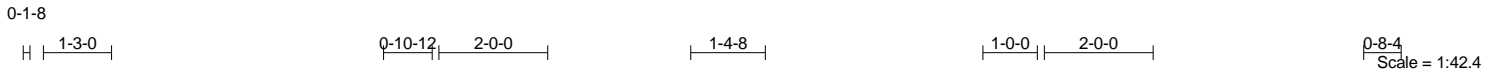


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [13:0-1-8,Edge], [20:0-1-8,Edge], [26:0-1-8,Edge], [29:0-1-8,Edge], [30:0-1-8,0-1-4]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	1-4-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.57	Vert(LL)	-0.16 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

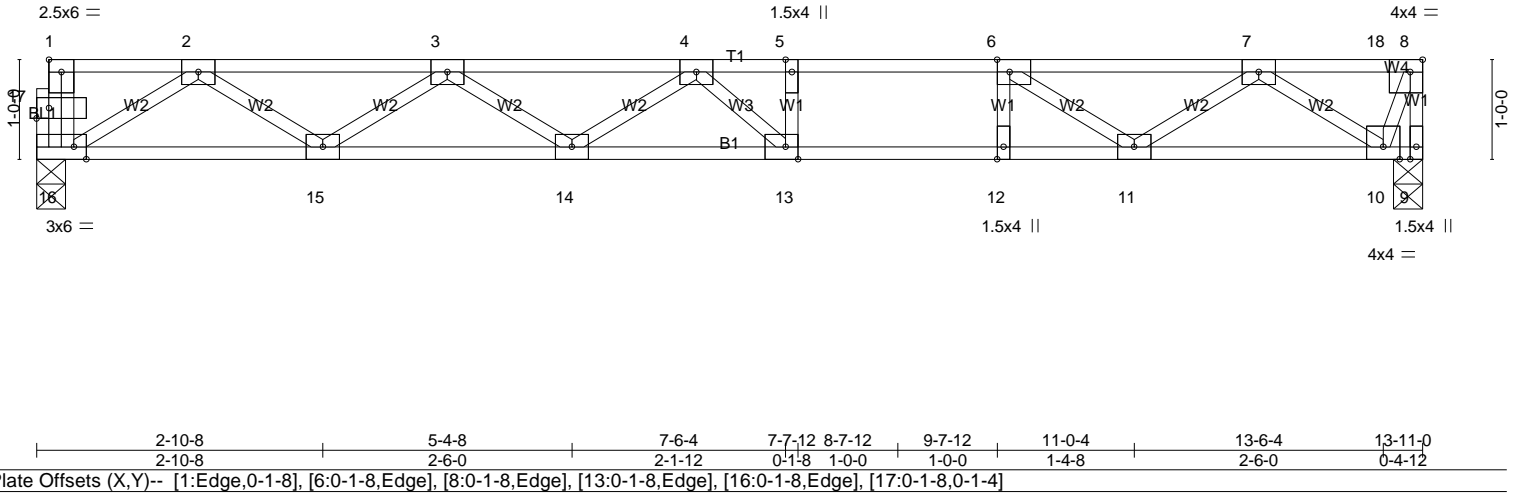
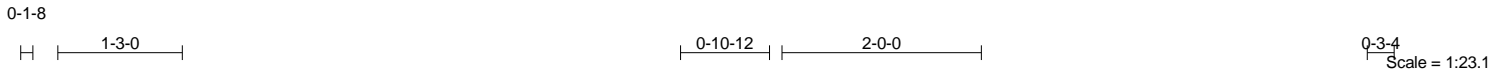
- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
  - 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  
ID:22cFc0egeM617Unx03s86jyEKXo-1YPxGarmWiWsDofab5jj6wOQFzoJlW59KKXsY4zPmjJW



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

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

**LOAD CASE(S)** Standard

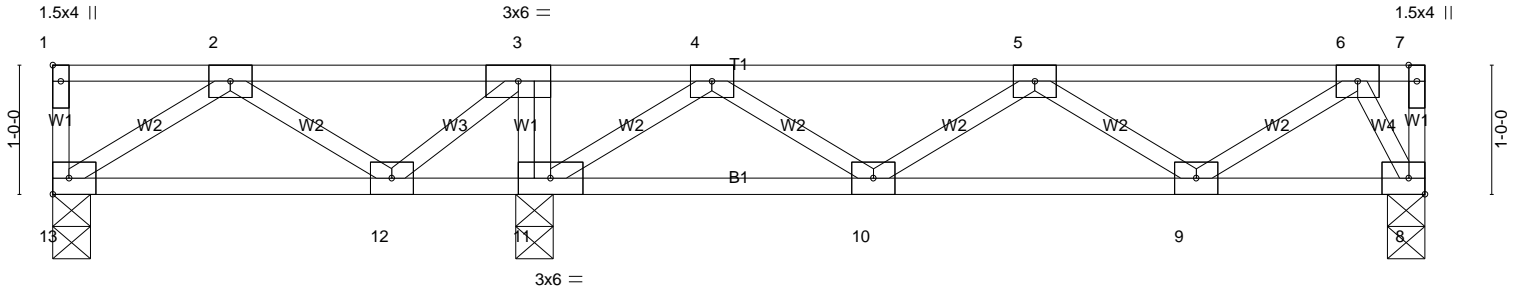
Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	F06	Floor	3	1	Job Reference (optional)

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  
ID:22cFc0egeM617Unx03s86jyEKXo-VlzJUwsPG0ejqyDn9oEyf7xhpNHt10HIY\_HQ4WzPmjV



Scale = 1:17.8



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]					

<b>LOADING</b> (psf)	<b>SPACING-</b>	1-4-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.15	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 Uplift 13=-26(LC 4)  
Max Grav 13=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

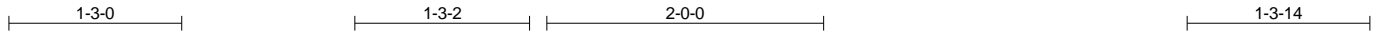
- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
  - 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

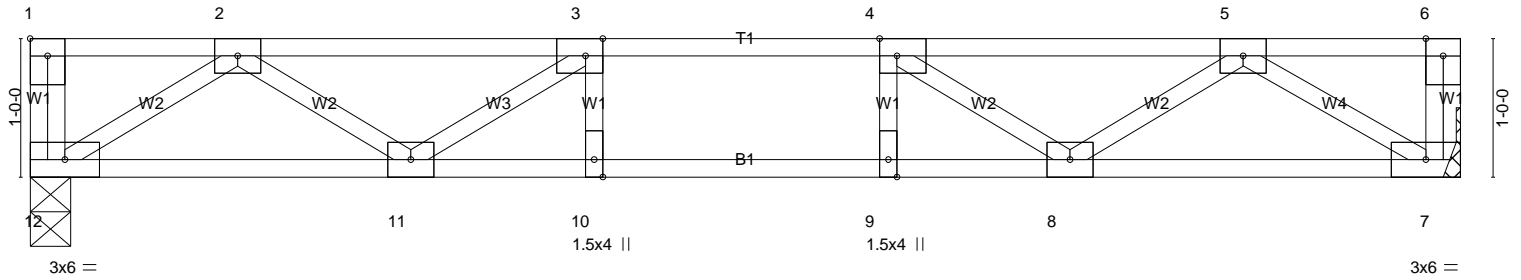
Job P24040749	Truss F07	Truss Type Floor	Qty 3	Ply 1	RAY WICKERS Job Reference (optional)
------------------	--------------	---------------------	----------	----------	---

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  
ID:22cFc0egeM617Unx03s86jyEKXo-R754uctfodvQ4GN9GDGQkY01vAwwVv0b0ImX9OzPmjT



Scale = 1:16.6



2-9-0	4-1-10	5-1-10	6-1-10	7-6-2	10-1-0	10-4-0
2-9-0	1-4-10	1-0-0	1-0-0	1-4-8	2-6-14	0-3-0

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

<b>LOADING</b> (psf)	<b>SPACING-</b>	1-4-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.17	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.

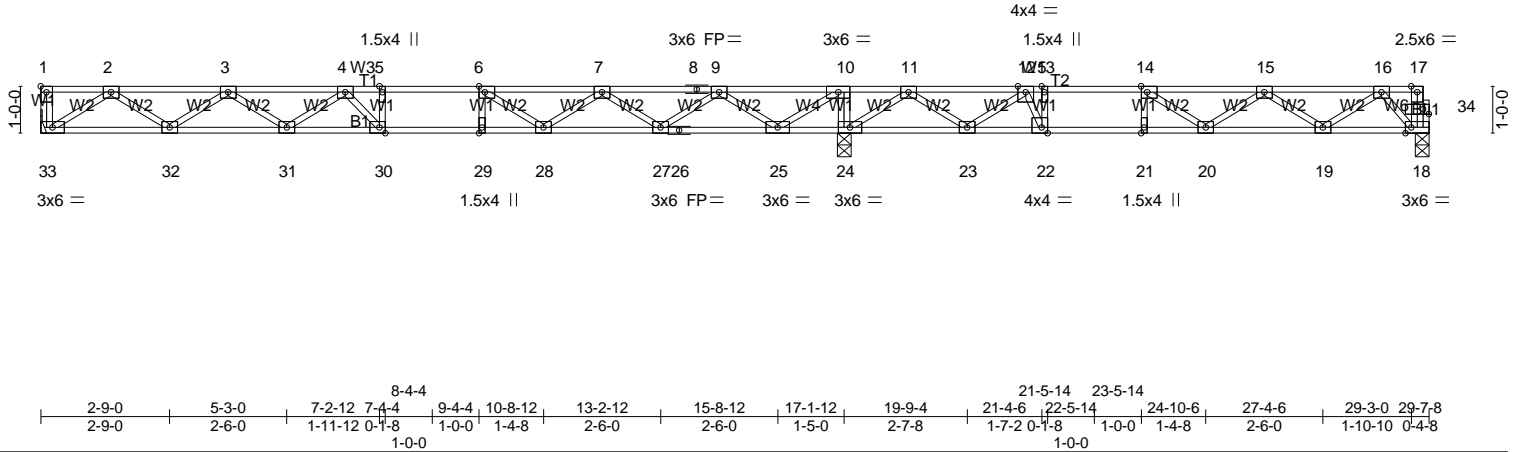
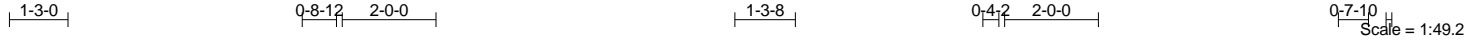
**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	F08	Floor	7	1	

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  
 ID:22cFc0egeM617Unx03s86jyEKXo-OWCqJlvvKF98JaXYOelupz5D3\_XTzjGuTcFdDHZPmjR

0-1-8



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	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.62	Vert(CT)	-0.25	30	>824		
BCLL 0.0	Rep Stress Incr	YES	WB 0.55	Horz(CT)	0.03	18	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						

Weight: 143 lb FT = 8%F, 4%E

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

**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  
 ID:22cFc0egeM617Unx03s86jyEKXo-KvKak\_x9ssPsYthwV3LMuOBZRnBRRdeBxwkkIAzPmjP

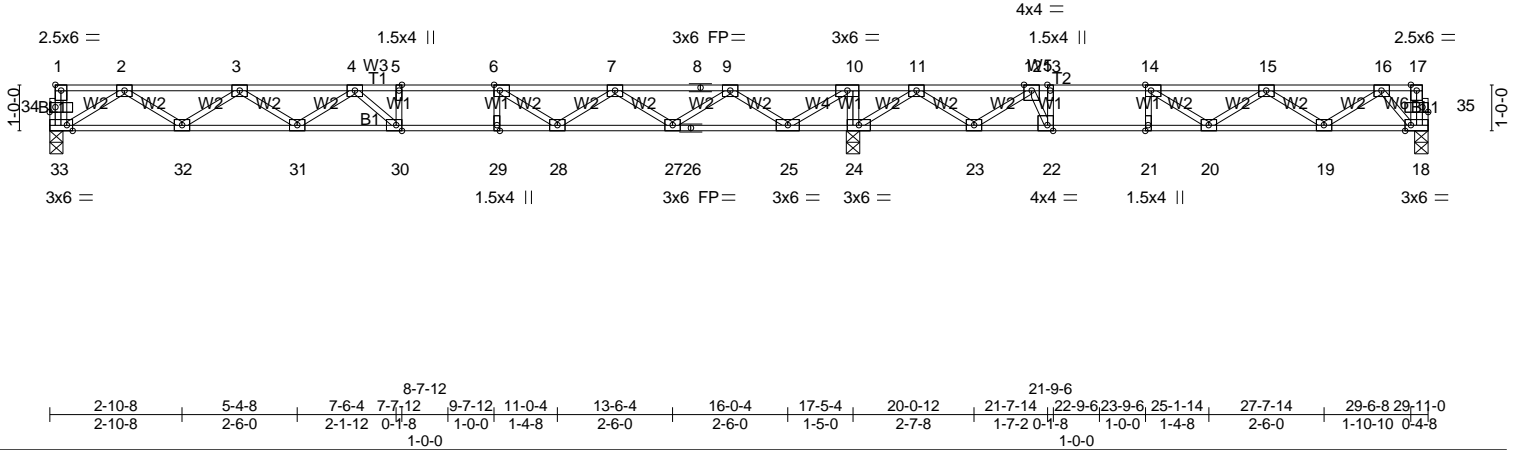
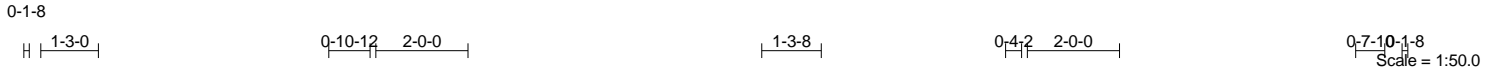


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [14:0-1-8,Edge], [18:0-1-8,Edge], [22:0-1-8,Edge], [30:0-1-8,Edge], [33:0-1-8,Edge], [34:0-1-8,0-1-4], [35:0-1-8,0-1-4]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	1-4-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.78	Vert(LL)	-0.20	30	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.65	Vert(CT)	-0.27	30-31	>775		
BCLL 0.0	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.03	18	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  
ID:22cFc0egeM617Unx03s86jyEKXo-o5uzyJxodAXjA1G73nsbRcjriBXVA6sK9aTHqczPmJ0

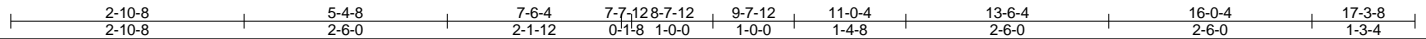
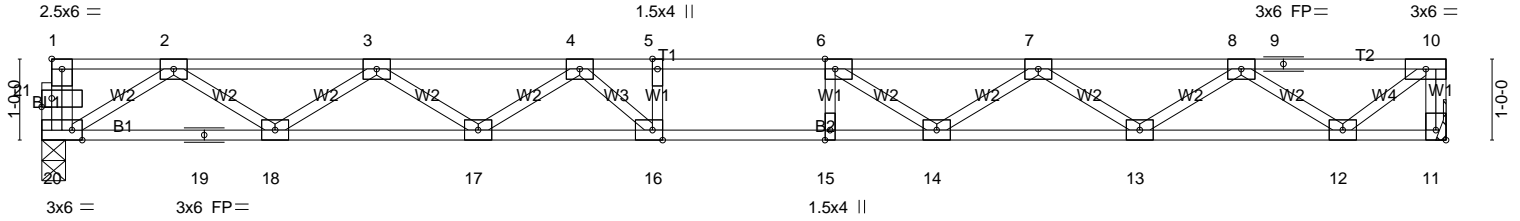
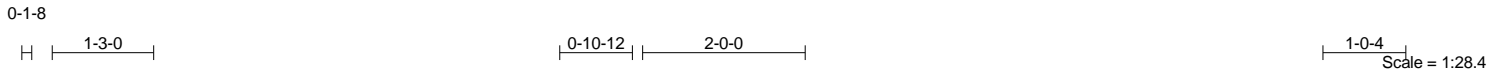


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [11:Edge,0-1-8], [16:0-1-8,Edge], [20:0-1-8,Edge], [21:0-1-8,0-1-4]

<b>LOADING</b> (psf)	<b>SPACING-</b>	1-4-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.36	Vert(LL)	-0.23	15-16	>883	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.66	Vert(CT)	-0.32	15-16	>643		
BCLL 0.0	Rep Stress Incr	YES	WB 0.43	Horz(CT)	0.05	11	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

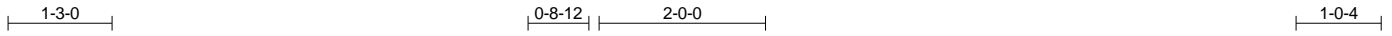
- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
  - 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

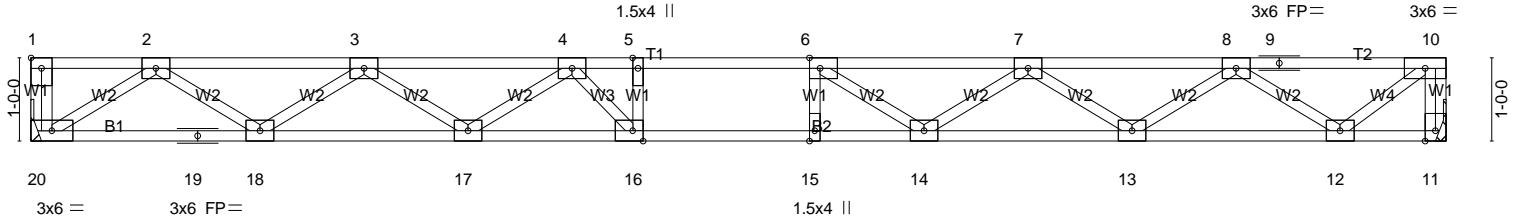
Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	F11	Floor	1	1	Job Reference (optional)

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  
 ID:22cFc0egeM617Unx03s86jyEKXo-kU0jM?z29nnRPLQVABu3W1oBL?D?e0SdduyOuVzPmjM



Scale = 1:27.7



2-9-0	5-3-0	7-2-12	7-4-4 8-4-4	9-4-4	10-8-12	13-2-12	15-8-12	17-0-0
2-9-0	2-6-0	1-11-12	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], [16:0-1-8,Edge]								

<b>LOADING</b> (psf)	<b>SPACING-</b>	1-4-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.35	Vert(LL)	-0.22	15	>908	480	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



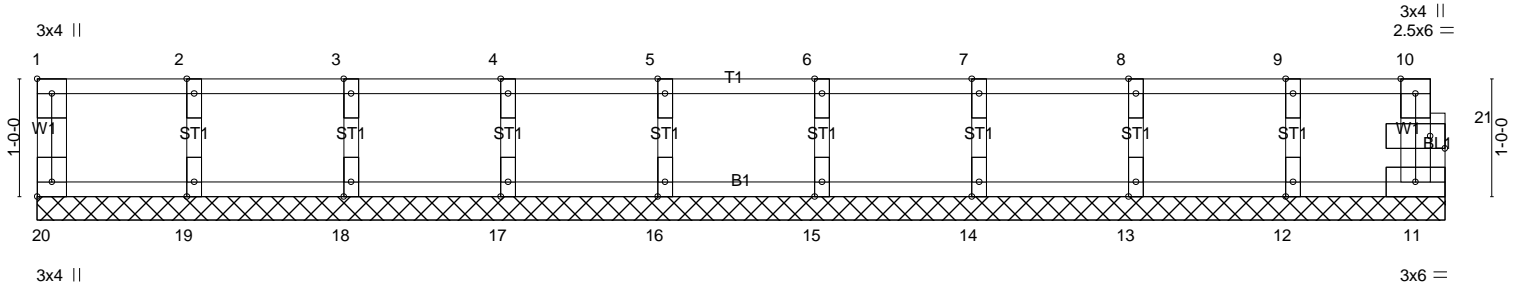
Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	F12	Floor Supported Gable	1	1	Job Reference (optional)

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  
ID:22cFc0egeM617Unx03s86jyEKXo-Cga5aL\_gw5v11V\_ikvP13ELRfPjTNZvmsYiyRxzPmjL

0.18  
11

Scale = 1:19.6



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-	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	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00	11	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-**

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

**LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	G01	Common Girder	1	<b>3</b>	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 2  
ID:22cFc0egeM617Unx03s86jyEKXo-dFFECNOYD0HtuyjGP1z?gtzrfcgearBDYWxc1GzPmjI

**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.

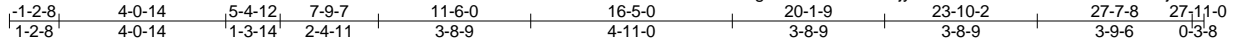
**LOAD CASE(S)** Standard

- 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  
 ID:22cFc0egeM617Unx03s86jyEKXo-V0Vk2k33GEolNZ12et1xrj8alD0IWfToT8vpA1zPmjE



Scale = 1:56.2

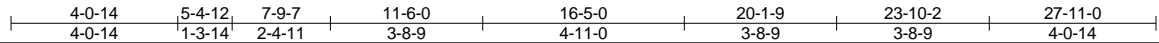
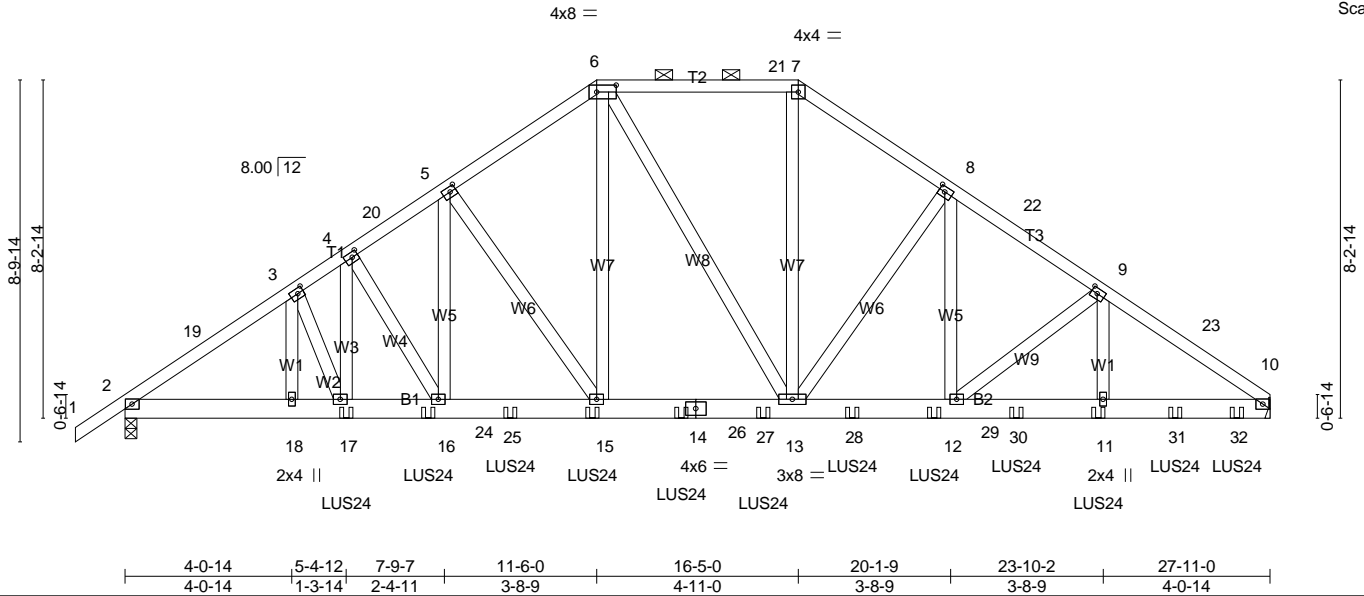


Plate Offsets (X,Y)-- [3:0-1-12,0-1-8], [4:0-1-12,0-1-8], [5:0-1-12,0-1-8], [6:0-5-12,0-2-0], [8:0-1-12,0-1-8], [9:0-1-12,0-1-8]

<b>LOADING</b> (psf)		<b>SPACING</b>	2-0-0	<b>CSI</b>		<b>DEFL.</b>	in (loc)	I/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
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 Uplift 10=-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-**

- 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.
- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=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
- 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.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will be on the bottom chord and any other members, with BCDL = 10.0psf.

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 16:31:44 2024 Page 2  
ID:22cFc0egeM617Unx03s86jyEKXo-zC27F44h1Yw9\_jcEcaYANwgl2dMxF6jyhoeNjTzPmjD

**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

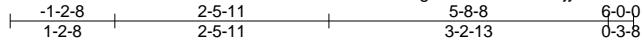
Concentrated Loads (lb)

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  
 ID:22cFc0egeM617Unx03s86jyEKXo-SPcVTQ5Jos20ctAQml4Pw8Dv21lV\_ac5wSOWFvzPmjC



Scale = 1:26.6

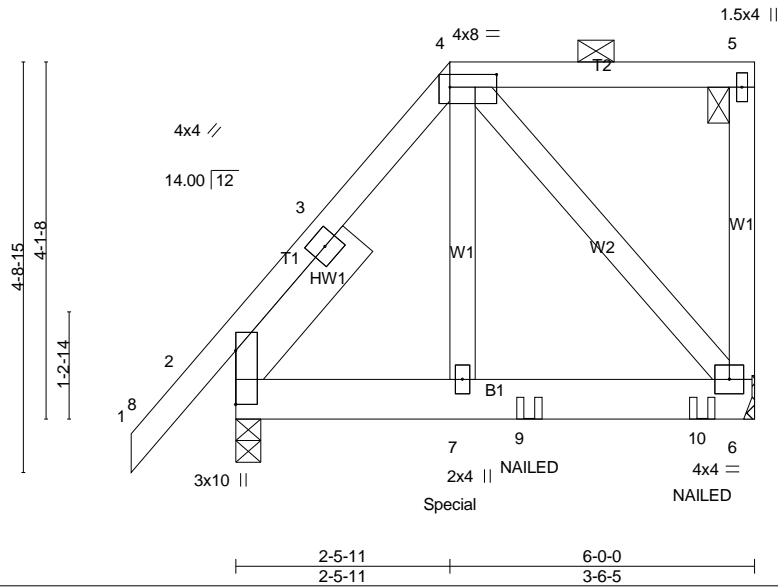


Plate Offsets (X,Y)-- [4:0-6-8,0-1-12]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Plate Grip DOL 1.15	BC 0.14	Vert(LL) -0.01 6-7 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.19	Vert(CT) -0.01 6-7 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P	Horz(CT) 0.00 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 50 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 2-1-14

**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 guidelines.
  - 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).

LOAD CASE(S) Standard

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 16:31:46 2024 Page 2  
ID:22cFc0egeM617Unx03s86jyEKXo-wbAtgm5yZ9AtE1IdK?beTLm4oR5kj1sF957UnMzPmjB

**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

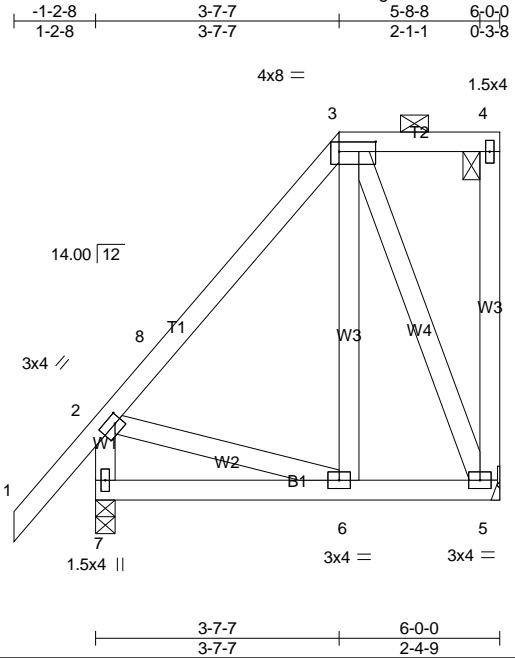
Concentrated Loads (lb)

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  
ID:22cFc0egeM617Unx03s86jyEKXo-OnkFu66aKTkrBKptj6t?ZIFeqSwSWMONit1KozPmjA



Scale = 1:34.2

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.27	Vert(LL)	-0.01	6-7	>999	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT)	-0.01	6-7	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.11	Horz(CT)	-0.00	5	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014							
							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  
ID:22cFc0egeM617Unx03s86jyEKXo-KAs0Jo8qs4YS5UUB?88L4\_OZNe7SwOihR3M8OhzPmj8

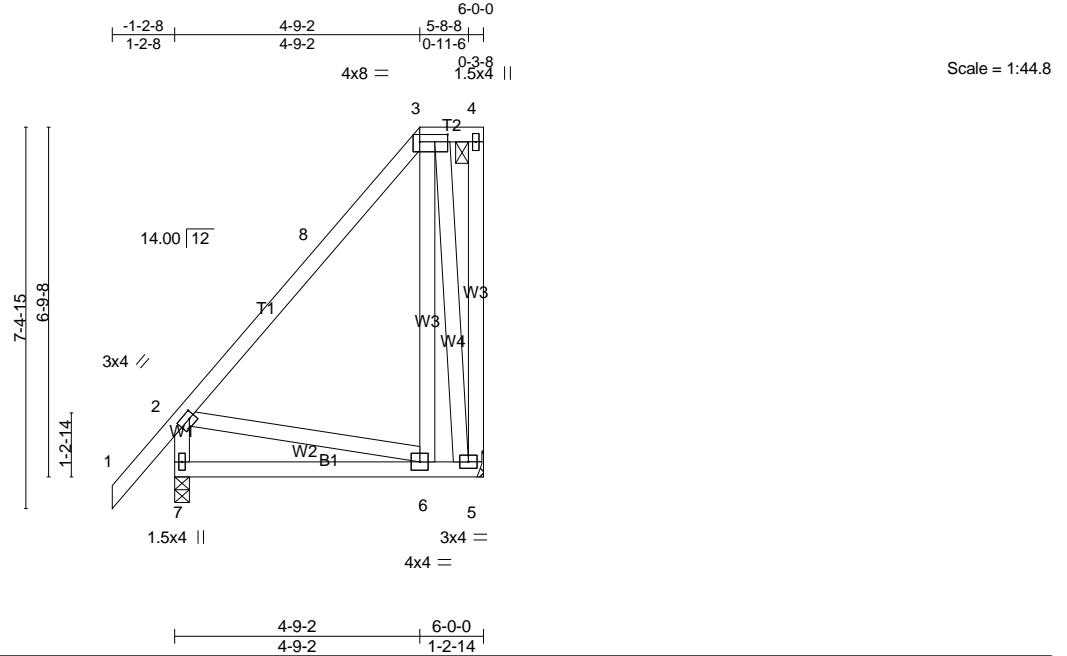


Plate Offsets (X,Y)-- [2:0-1-4,0-1-8], [3:0-6-8,0-1-12]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	I/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	Plate Grip DOL 2-0-0	TC 0.44	Vert(LL) -0.02	6-7	>999	240	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Lumber DOL 1.15	BC 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%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1	TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W1: 2x4 SP No.2	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 Uplift 5=-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

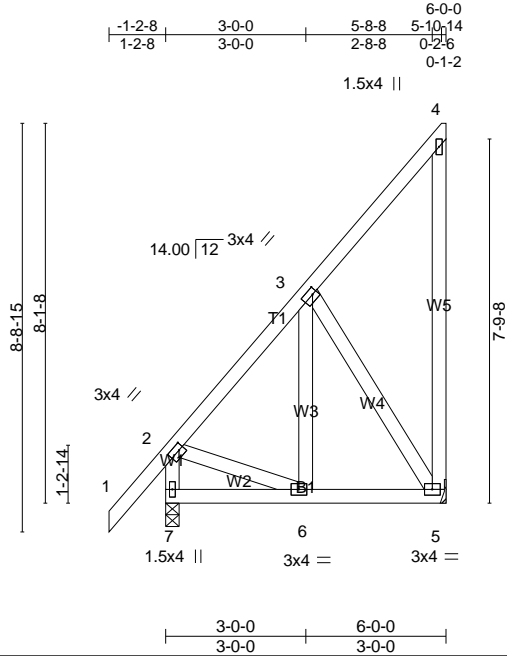
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=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.
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 5 and 19 lb uplift at joint 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.
  - 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  
 ID:22cFc0egeM617Unx03s86jyEKXo-oMQOW78SdOgJie3OZrfadBwgr2UttfAq4j5hw7zPmj7



Scale = 1:49.3

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.65	Vert(LL)	-0.00	6-7	>999	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT)	-0.00	6-7	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.11	Horz(CT)	-0.00	5	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						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 Uplift 5=-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

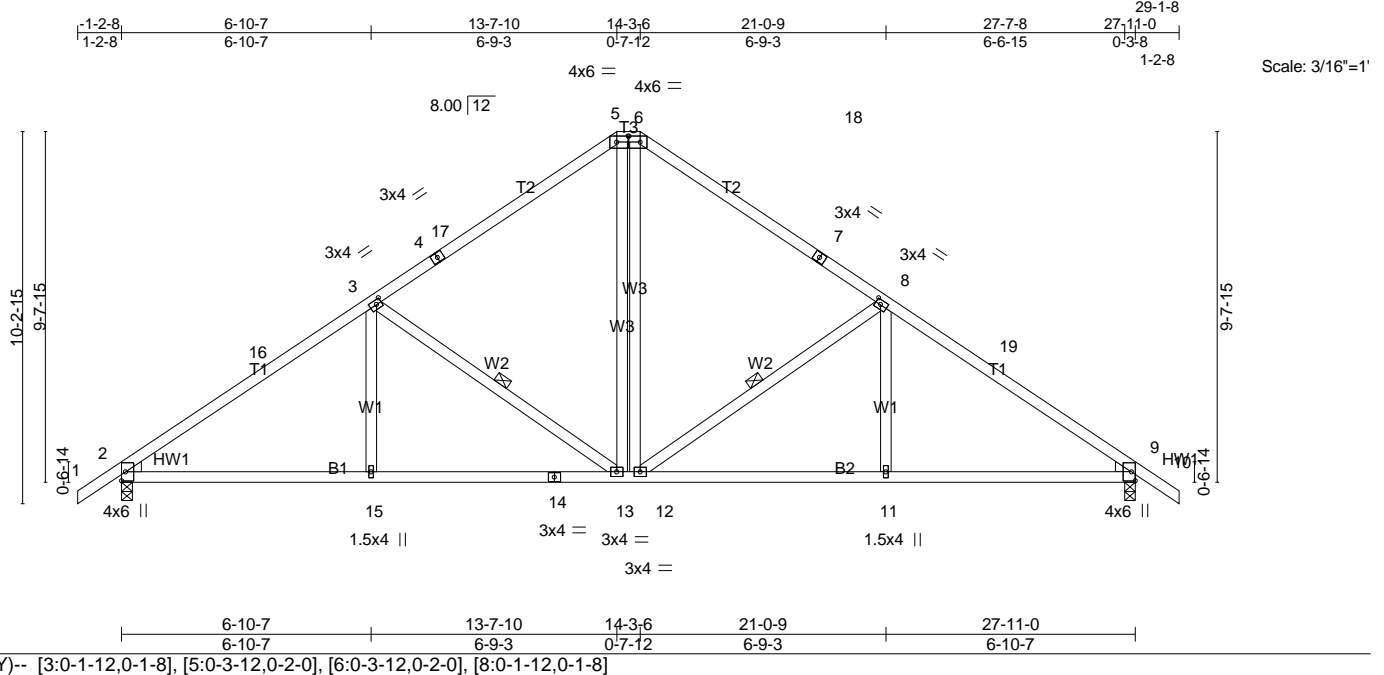
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: 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); ls=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  
 ID:22cFc0egeM617Unx03s86jyEKXo-klX8xpAi9?w0yDmgGi2ic02br407lo7X1ao??zPmj5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.57	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Plate Grip DOL 1.15	BC 0.40	Vert(LL) -0.06 13 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.23	Vert(CT) -0.13 13-15 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.06 9 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			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=0/988, 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

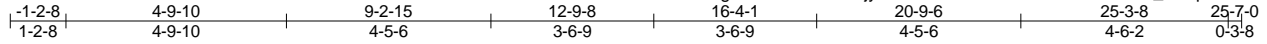
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical 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  
 ID:22cFc0egeM617Unx03s86jyEKXo-dWnfnBDDCEQSRZWyv6m\_sSAp3TV23YkjSFy?8nzPmj1



Scale = 1:50.1

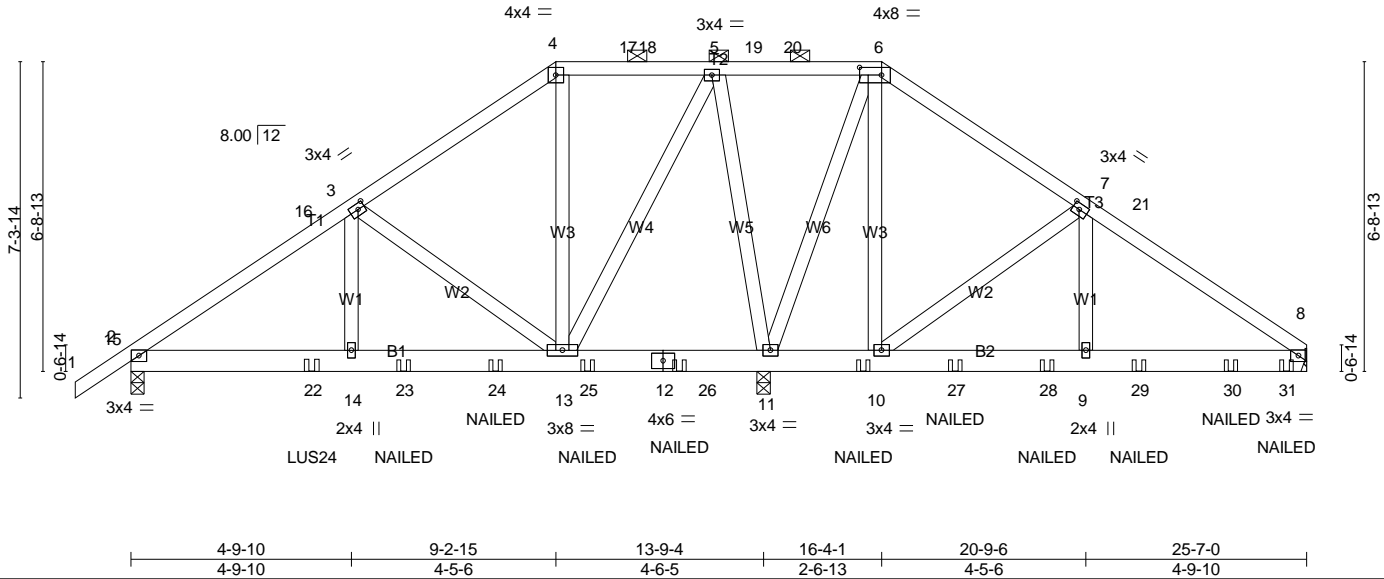


Plate Offsets (X,Y)--	[3:0-1-12,0-1-8], [6:0-5-12,0-2-0], [7:0-1-12,0-1-8]
-----------------------	--

LOADING (psf)	SPACING	2-0-0	CSI	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 2-0-0	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-**

- 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.
- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=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
- 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.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Checked by [signature] for truss to truss connections.

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 2  
ID:22cFc0egeM617Unx03s86jyEKXo-dWnfnBDDCEQSRZWYv6m\_sSAp3TV23YkjSfY?8nzPmj1

**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 guidelines.
- 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

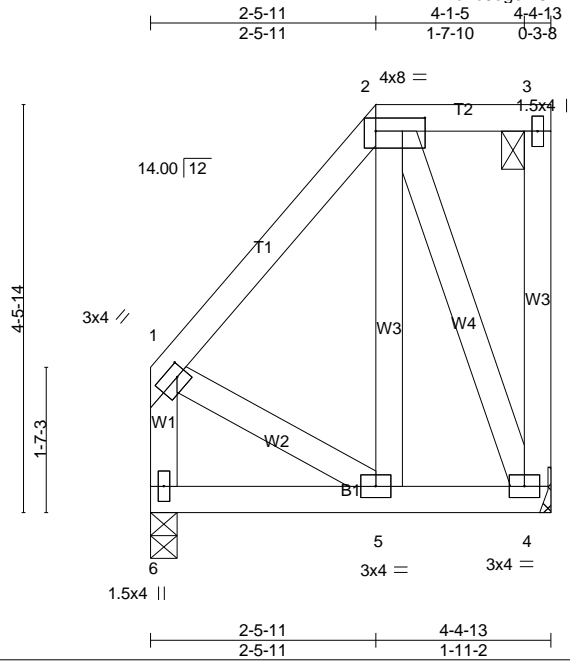
Concentrated Loads (lb)

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  
 ID:22cFc0eegM617Unx03s86jyEKXo-5iL1\_XErzYYJ2j5kTpHDPfj\_estxo2jshJiZgDzPmj0



Scale = 1:25.3

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.17	Vert(LL)	-0.00	5	>999	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	-0.00	5-6	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.06	Horz(CT)	-0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						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-**

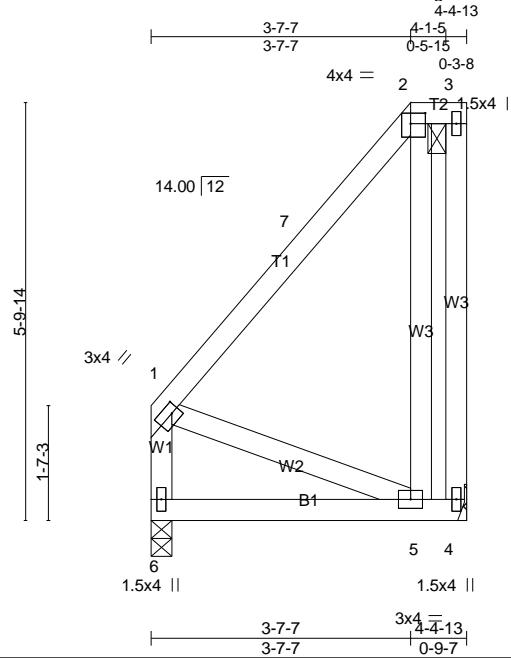
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; 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  
 ID:22cFc0egeM617Unx03s86jyEKXo-ZvvPBtFtkrgAgtgw1XoSytF8?GClXUCovz16CfzPmj



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-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.19	Vert(LL)	-0.01	5-6	>999	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Plate Grip DOL 1.15	BC 0.13	Vert(CT)	-0.02	5-6	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.10	Horz(CT)	-0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						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-**

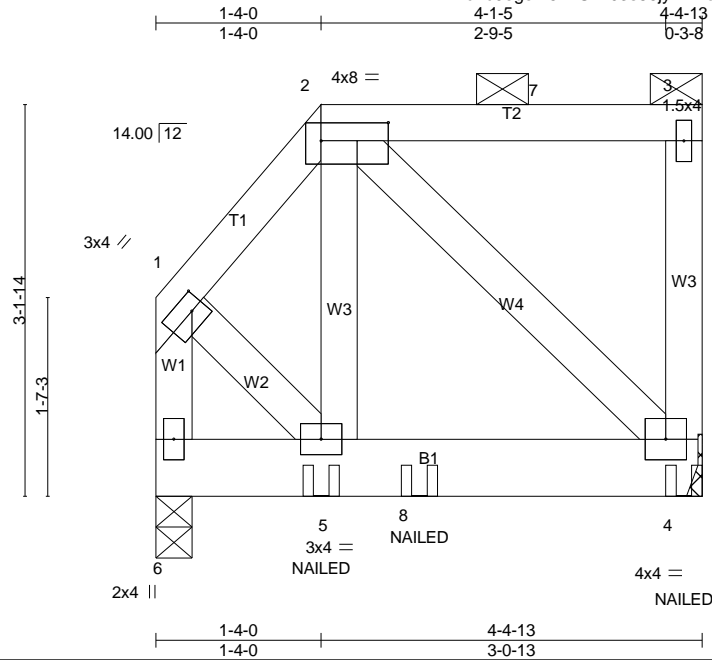
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; 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  
 ID:22cFc0egeM617Unx03s86jyEKXo-VH0AcYGkGTxuvBqJ8xrw1ILUP4vK?PWINHWDGYzPmiz



Scale = 1:18.6

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.20	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) -0.00 5 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.05	Vert(CT) -0.00 4-5 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P	Horz(CT) -0.00 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			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 guidelines.
- 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



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 2  
ID:22cFc0egeM617Unx03s86jyEKXo-VH0AcYGkGTxuvBqJ8xrw1ILUP4vK?PWINHWDGYzPmiz

**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  
 ID:22cFc0egeM617Unx03s86jyEKXo-\_UaYquHM1m3IXKPVifM9ZVtVoUAhkqXScxGmo\_zPmy

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

Scale = 1:55.1

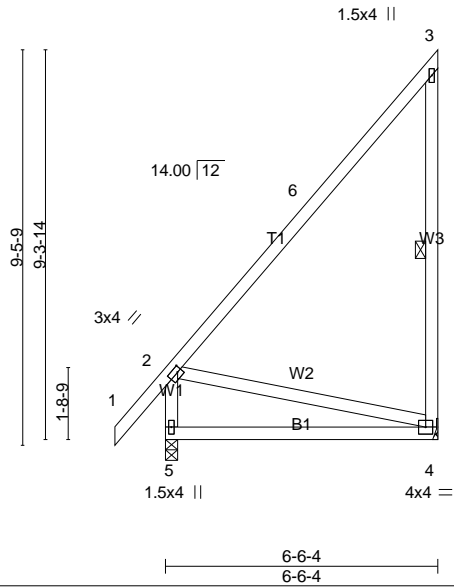


Plate Offsets (X,Y)-- [2:0-1-4,0-1-8]

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

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 16:32:03 2024 Page 1  
 ID:22cFc0eegM617Unx03s86jyEKXo-wsilFaJcZOJTmeZup4OdfwzPHuTCkvI3FttzPmiv

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

Scale = 1:58.3

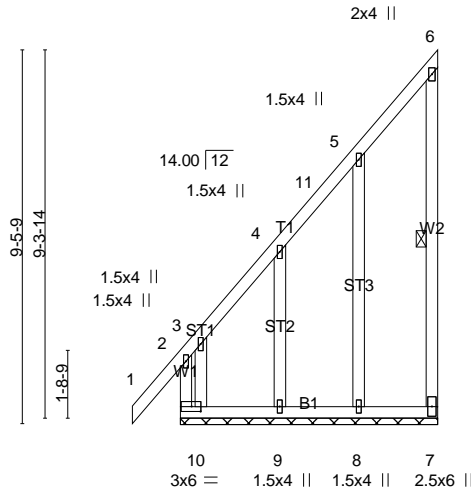


Plate Offsets (X,Y)-- [10:0-2-12,0-1-8]

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

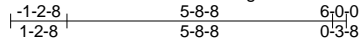
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Truss 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  
 ID:22cFc0egeM617Unx03s86jyEKXo-O3GhSwJEKhRK0o74NnvsB8V3KhCNxCqulvUQPJzPmiv



Scale = 1:49.5

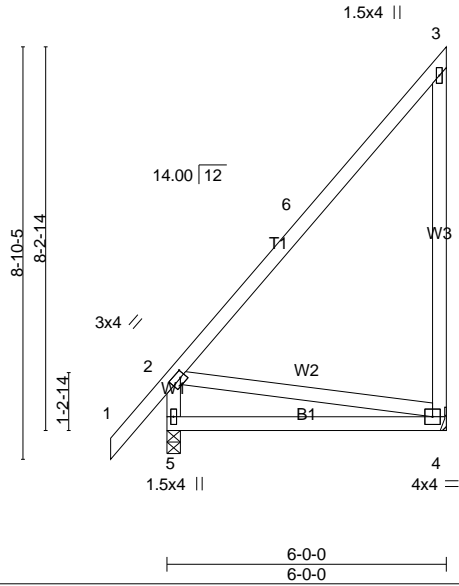


Plate Offsets (X,Y)-- [2:0-1-4,0-1-8]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.65	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.30	Vert(LL) -0.06 4-5 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.10	Vert(CT) -0.11 4-5 >615 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			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

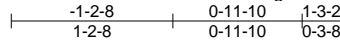
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: 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  
 ID:22cFc0egeM617Unx03s86jyEKXo-sFq3fGks5?ZA0yiGxVR5kL2Nm5cFgg72WZE\_xizPmiu



Scale = 1:17.3

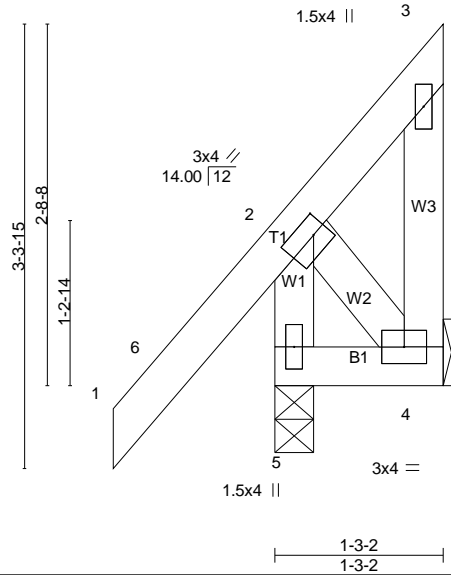


Plate Offsets (X,Y)-- [2:0-1-4,0-1-8]

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

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

**BRACING-**  
 TOP CHORD Sheathed or 1-3-2 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-**

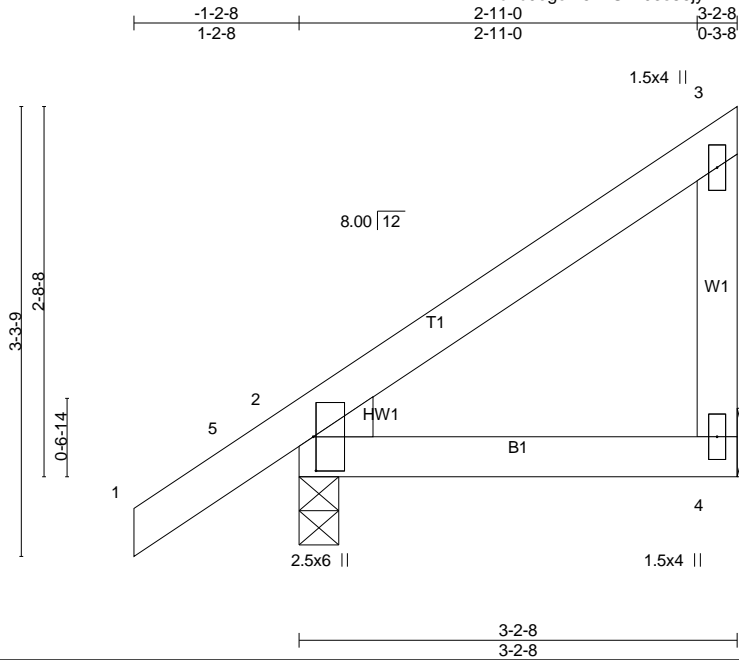
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 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  
 ID:22cFc0e9eM617Unx03s86jyEKXo-oexp4xM7ccpuFFs2wTZpm7jAuHU8a2K\_tj50ezPmis



Scale = 1:16.9

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.10	Vert(LL)	-0.00	2-4	>999	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	-0.01	2-4	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						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  
 ID:22cFc0egeM617Unx03s86jyEKXo-GqVBIHMInwxitPRrcd\_oM\_gpCbRt1IUDXSeY4zPmir

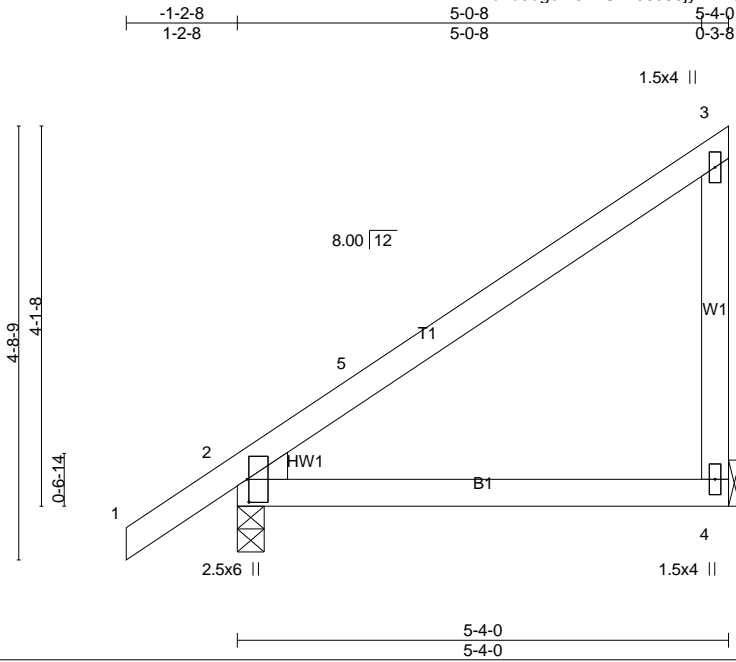


Plate Offsets (X,Y)-- [2:0-3-0,0-0-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.40	Vert(LL)	-0.03	2-4	>999	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.23	Vert(CT)	-0.07	2-4	>892		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						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 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  
 ID:22cFc0egeM617Unx03s86jyEKXo-103aVdNN8E3cUJ01AKV1uBD3UixCct1dRBCB4WzPmiq



Scale = 1:15.6

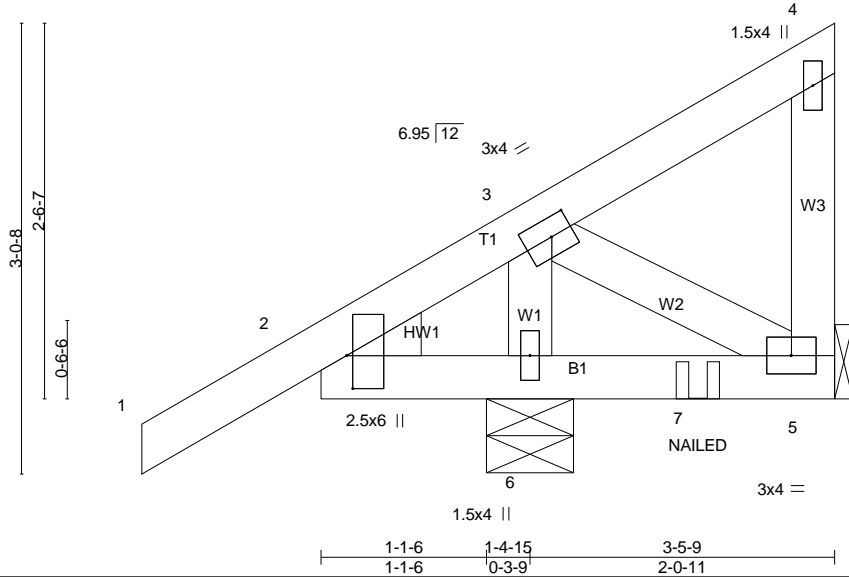


Plate Offsets (X,Y)-- [2:0-2-11,0-0-8], [3:0-1-12,0-1-8]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) 0.00 5-6 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.10	Vert(CT) 0.00 5-6 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P	Horz(CT) -0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 21 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 3-5-9 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 guidelines.
  - 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



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 16:32:10 2024 Page 2  
ID:22cFc0egeM617Unx03s86jyEKXo-DDdyzO?vXBT6jbEk20GRPIEE6HRLwHngqldzzPmp

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

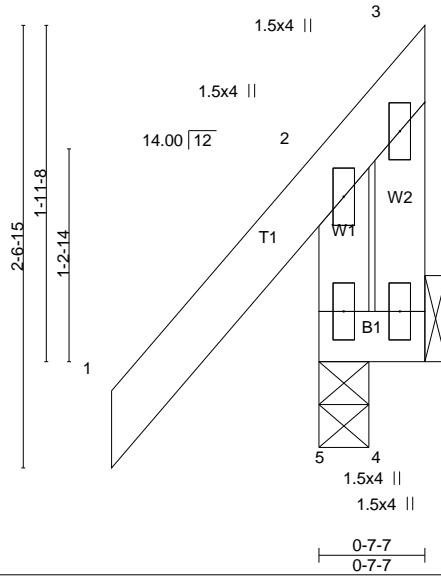
Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	J08	Jack-Closed Girder	1	1	Job Reference (optional)

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  
 ID:22cFc0egeM617Unx03s86jyEKXo-hPBKwJPdgrJKkAQHIXVzclNIWfN4O2wvUhl9PzPmio



Scale = 1:13.4



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

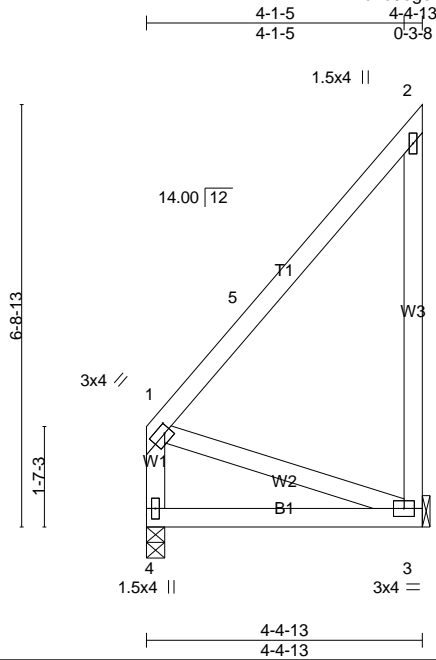
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 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  
ID:22cFc0egeM617Unx03s86jyEKXo-9bli7fQFR9RBL1lcrT3kVWqrU3vzgzpre478QshrzPmin



Scale = 1:36.8

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

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

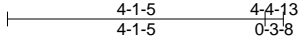
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 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  
 ID:22cFc0egeM617Unx03s86jyEKXo-dnJ4L?QtCSZ2zAJpPAaz31NhqJJAYHSDMoAPDlzPmim



Scale = 1:36.8

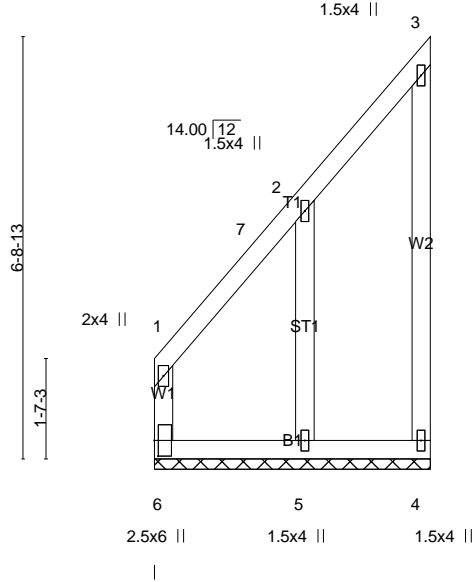


Plate Offsets (X,Y)-- [6:0-3-0,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.28	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.13	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.07	Horz(CT)	-0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R						
BCDL 10.0	Code IRC2018/TPI2014						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  
ID:22cFc0egeM617Unx03s86jyEKXo-5\_sSYLRWzmhvbKu?zu5CbFwu\_jhpHkyMbSvymkzPml



Scale = 1:18.7

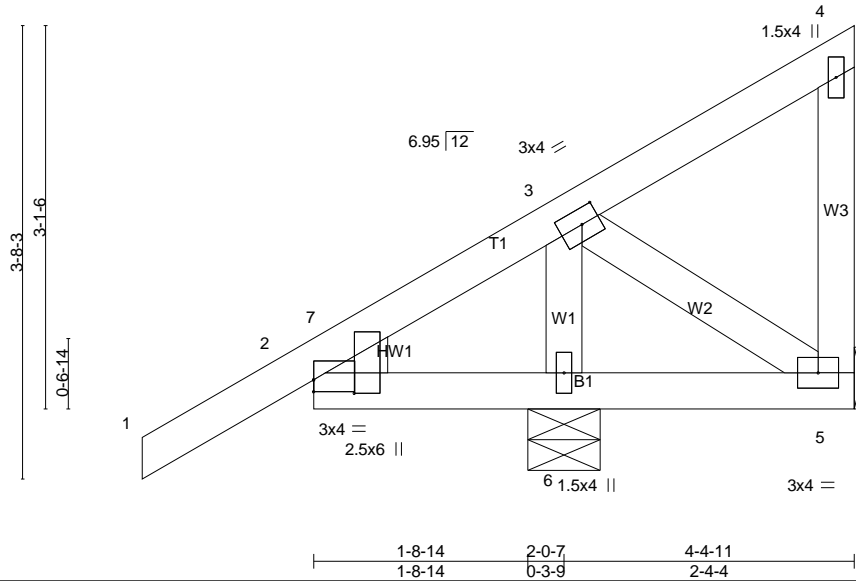


Plate Offsets (X,Y)-- [2:0-0-0,0-1-3], [2:0-1-5,0-3-15], [3:0-1-12,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.13	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) 0.00 6 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.12	Vert(CT) -0.00 6 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 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  
 ID:22cFc0egeM617Unx03s86jyEKXo-ZAQrmhS8k4qmCUTBWbcR8ST3q7?k0B1Wq6fWIAzPmik



Scale = 1:19.1

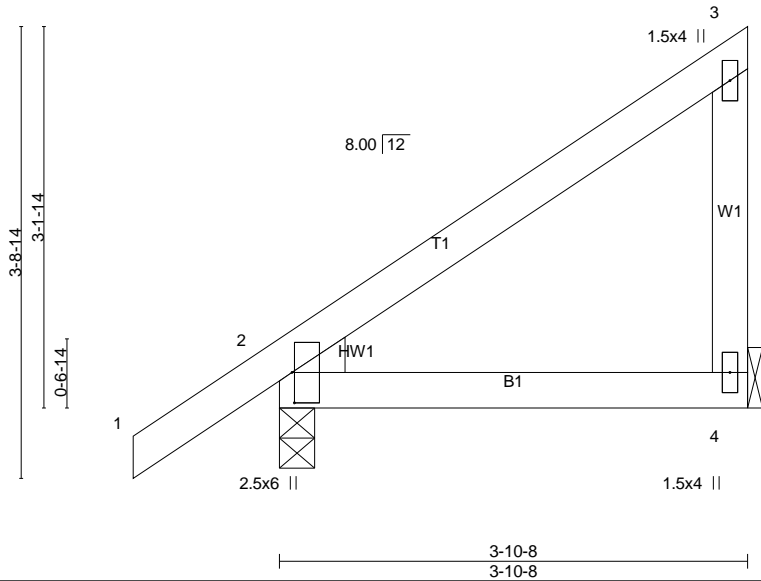


Plate Offsets (X,Y)-- [2:0-3-0,0-0-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.19	Vert(LL)	-0.01	2-4	>999	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.13	Vert(CT)	-0.02	2-4	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 20 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 3-10-8 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)

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 16:32:17 2024 Page 1  
 ID:22cFc0egeM617Unx03s86jyEKXo-WZYbBMT0Gh4TSodae0evDtYJtwgkU3NpHQ8dM3zPmii

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

Scale = 1:58.3

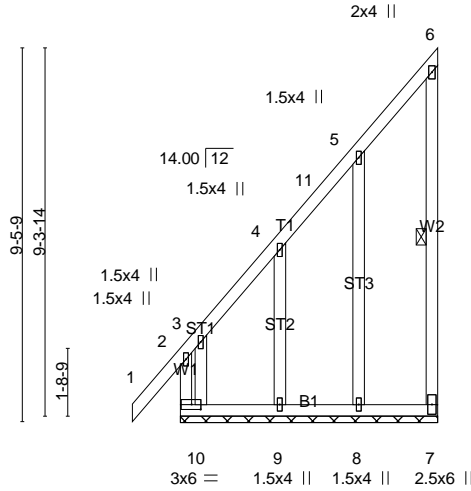


Plate Offsets (X,Y)-- [10:0-2-12,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.54	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.16	Vert(LL) 0.01 1-2 n/r 120		
TCDL 10.0	Lumber DOL 1.15	WB 0.14	Vert(CT) 0.00 1-2 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R	Horz(CT) -0.00 7 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			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  
 ID:22cFc0egeM617Unx03s86jyEKXo-\_l6zOiU01?CK3yCmCj98m54YxK1aDVeyW4tAvVzPmih



Scale = 1:12.3

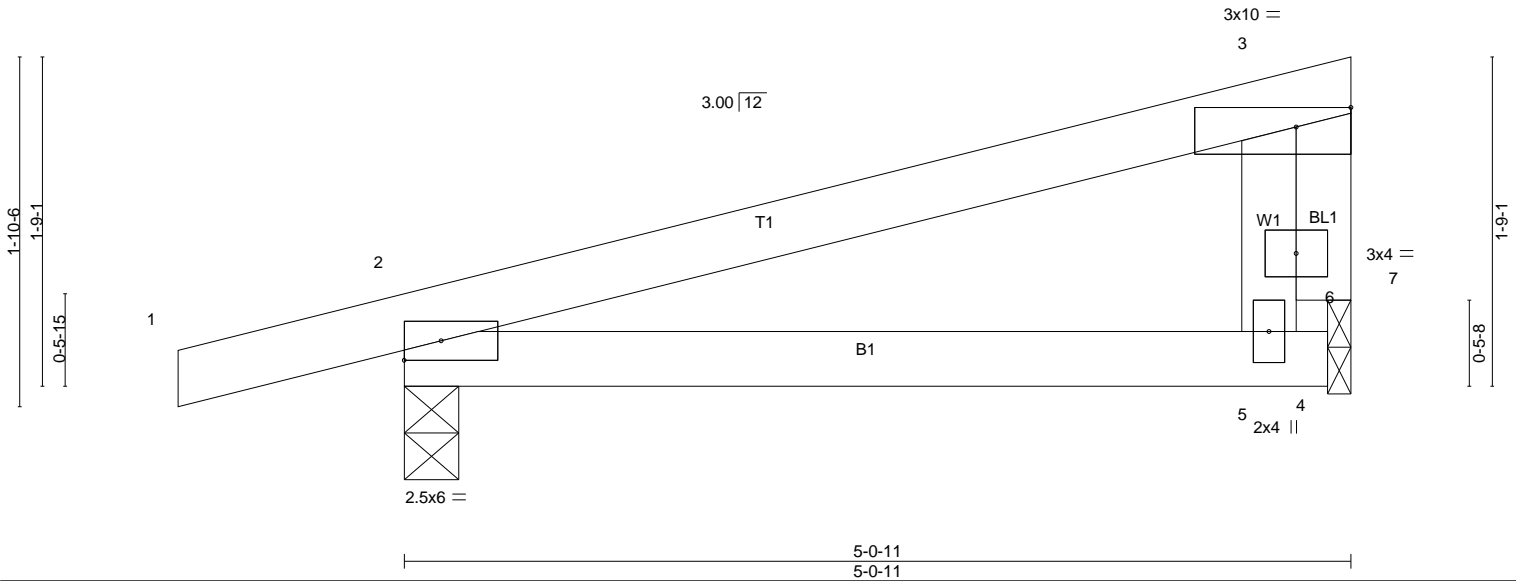


Plate Offsets (X,Y)-- [3:Edge,0-1-4]

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

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

**BRACING-**  
 TOP CHORD Sheathed or 5-0-11 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 Uplift 2=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



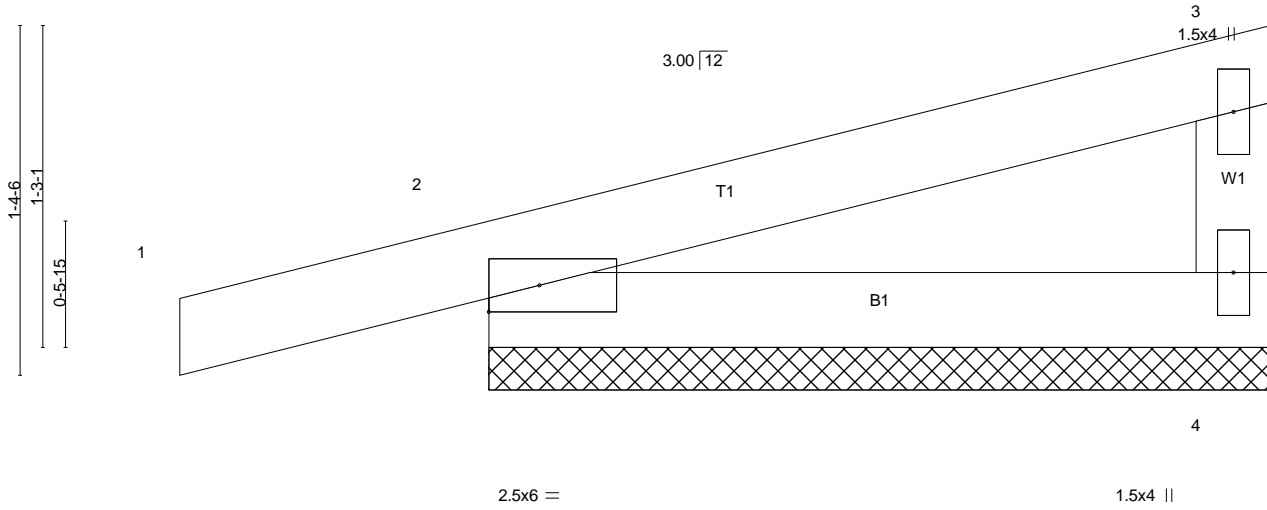
Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	M04	Monopitch Supported Gable	1	1	Job Reference (optional)

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  
 ID:22cFc0egeM617Unx03s86jyEKXo-SxgLB2VeolKBh5nylRhNlldmVknXy?15kkdjRxzPmig



Scale = 1:9.0



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.08	Vert(LL)	0.00	1	n/r	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.07	Vert(CT)	0.00	1	n/r		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						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 Uplift 2=-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-**

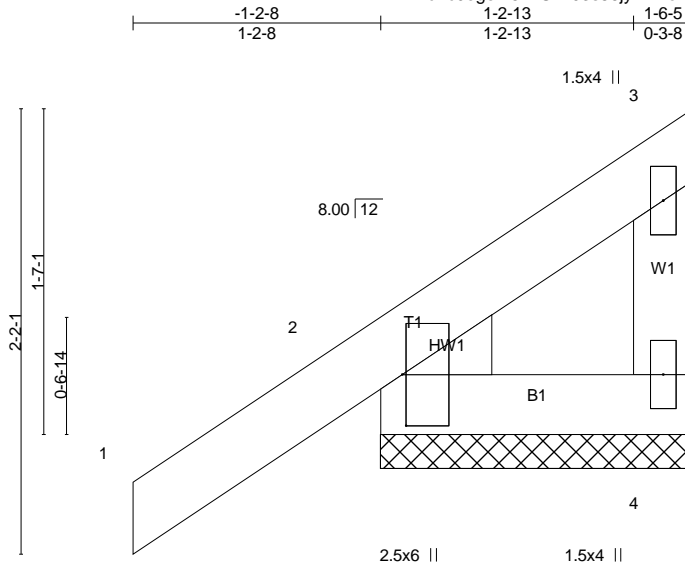
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for 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  
 ID:22cFc0egeM617Unx03s86jyEKXo-w8EkpOWGZcS2JFM9J8CcrWAXg8kehSGFzOMHzOzPmif



Scale = 1:11.2

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

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

Sheathed or 1-6-5 oc purlins, except end verticals.  
 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  
 ID:22cFc0egeM617Unx03s86jyEKXo-OKo60kXvJwvaxPxLtsjrNji7rX4wQvSOC26qVqzPmie

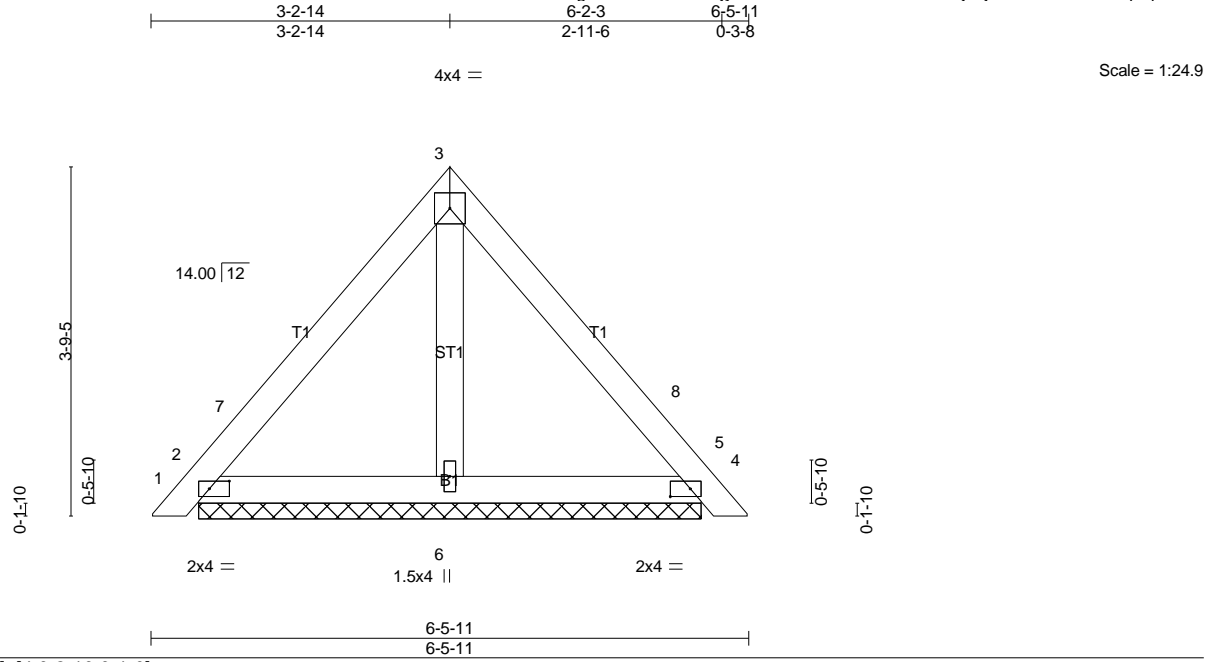


Plate Offsets (X,Y)-- [2:0-2-10,0-1-0], [4:0-2-10,0-1-0]

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

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

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

**REACTIONS.** (lb/size) 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-**

- 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.
- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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  
 ID:22cFc0egeM617Unx03s86jyEKXo-sWLUe4XX4DimYZVXRZE4wxFH4xPT9MQYRirN2GzPmid

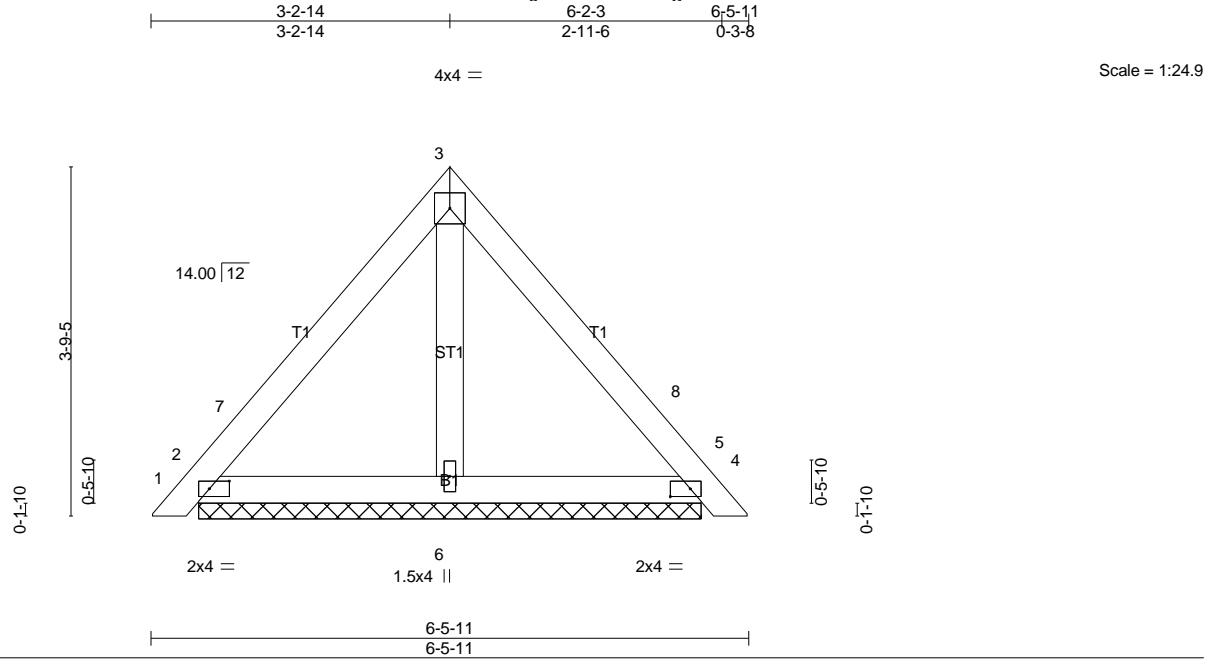


Plate Offsets (X,Y)-- [2:0-2-10,0-1-0], [4:0-2-10,0-1-0]					
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.12	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) 0.00 5 n/r 120		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Vert(CT) 0.00 5 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			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 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.

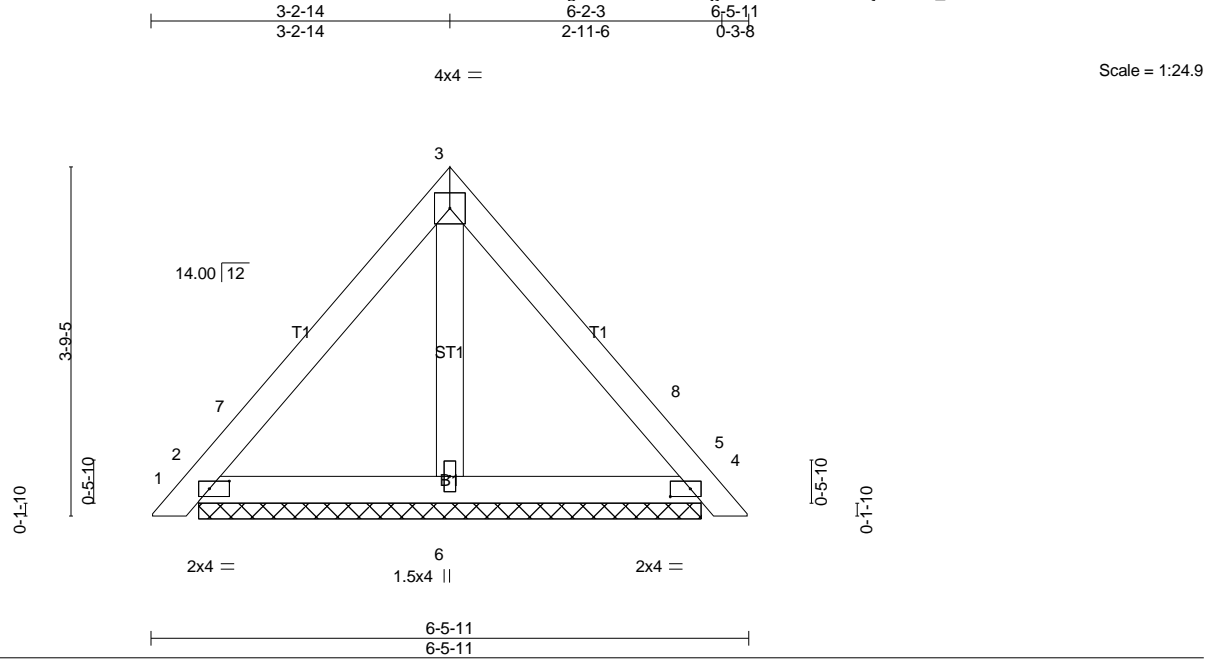
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); ls=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 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  
 ID:22cFc0egeM617Unx03s86jyEKXo-ovTEfmZncryUotfwY\_GY?MKdal5xdGwru0KU69zPmb



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0	2-0-0	2-0-0	TC	0.12	in	(loc)	l/defl	L/d	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Plate Grip DOL	1.15	BC	0.06	Vert(LL)	0.00	5	n/r	120	
TCDL	10.0	Lumber DOL	1.15	WB	0.02	Vert(CT)	0.00	5	n/r	120	
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-P		Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014									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 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) 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); ls=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 P24040749	Truss T01	Truss Type Flat Girder	Qty 1	Ply 2	RAY WICKERS
------------------	--------------	---------------------------	----------	----------	-------------

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  
ID:22cFc0egeM617Unx03s86jyEKXo-DU9NHnbvfmK3fKOVd6qFd\_y3Py3SqVyHa\_Z8jUzPmiY

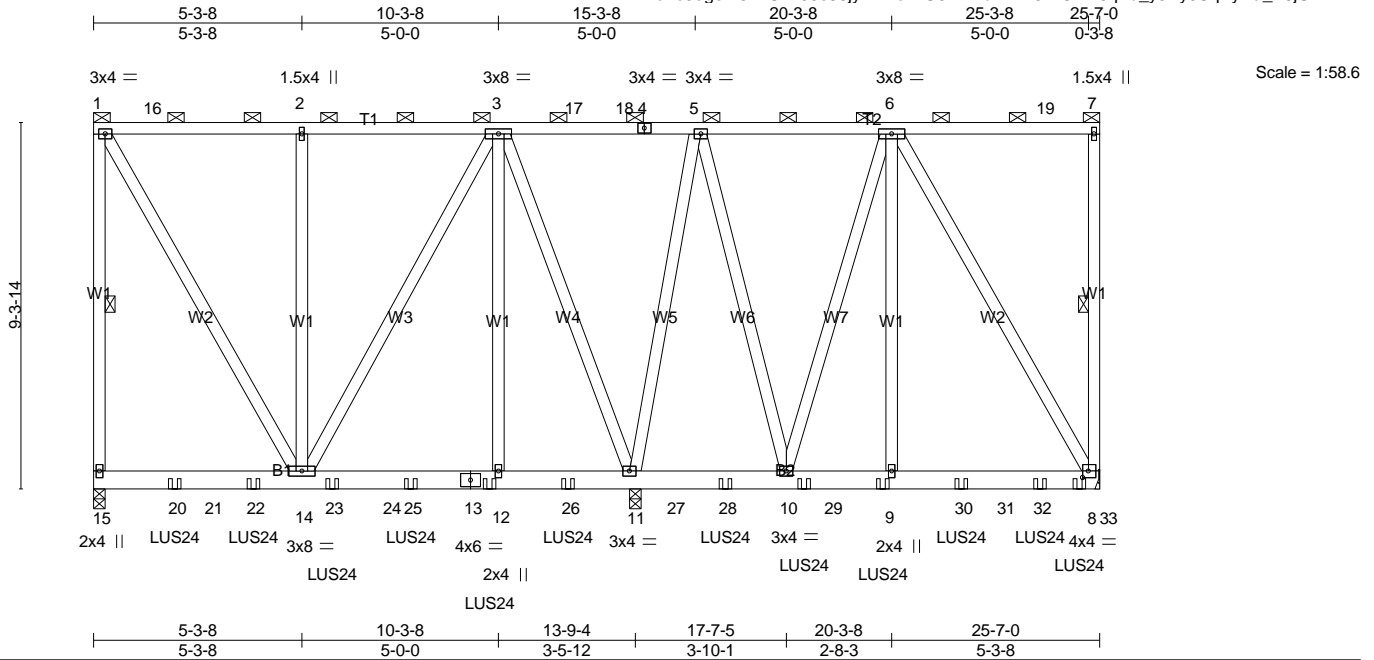


Plate Offsets (X,Y)-- [8:0-1-12,0-2-0]

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

- 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.
- 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.
- 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
- 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.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=553, 8=671, 11=1181.
- 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.
- 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	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 2  
ID:22cFc0egeM617Unx03s86jyEKXo-DU9NHnbvfmK3fKOVd6qFd\_y3Py3SqVvHa\_Z8jUzPmiY

**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

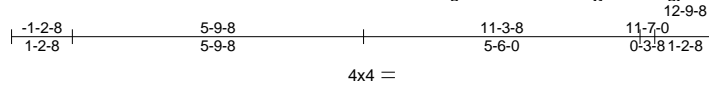
Concentrated Loads (lb)

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)

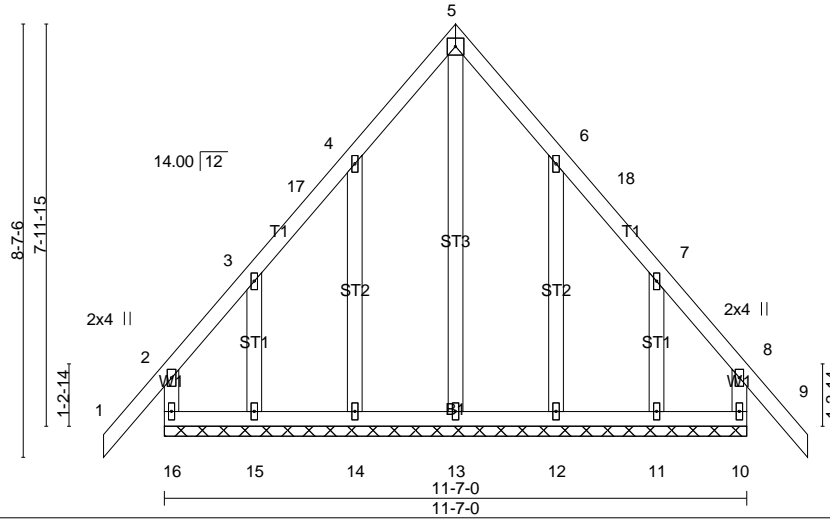
Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	T01GE	Common Supported Gable	1	1	Job Reference (optional)

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  
 ID:22cFc0egeM617Unx03s86jyEKXo-hgjlU7clg3SwGUzhhnqLU9CVHgMRgZ0pQpellFwzPmIX



Scale = 1:45.8



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

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

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

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

**REACTIONS.** All bearings 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-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.00; Cs=1.00; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
  - All plates are 1.5x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.
  - This truss is designed in accordance with the 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  
 ID:22cFc0egeM617Unx03s86jyEKXo-d3qWvpdYChidWo74vFNyFdaXVA2T1w1jGynpKpzPmiv

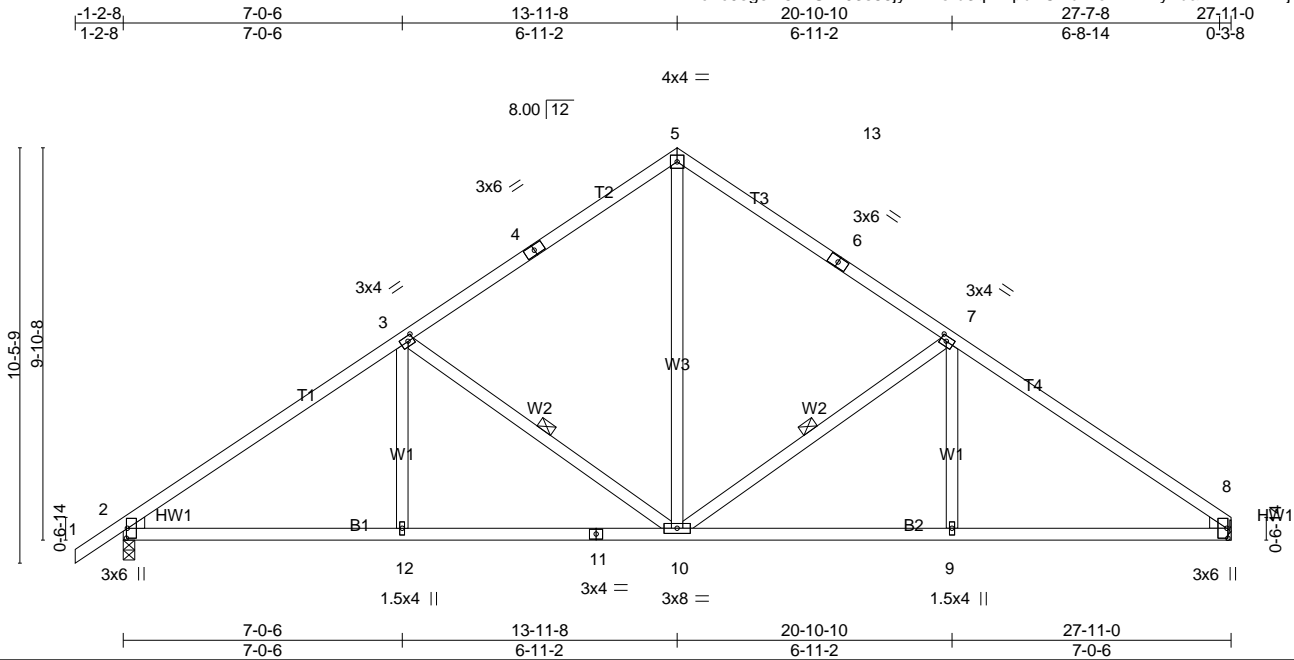


Plate Offsets (X,Y)-- [2:0-3-0,0-0-4], [3:0-1-12,0-1-8], [7:0-1-12,0-1-8], [8:0-3-0,0-0-4]

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

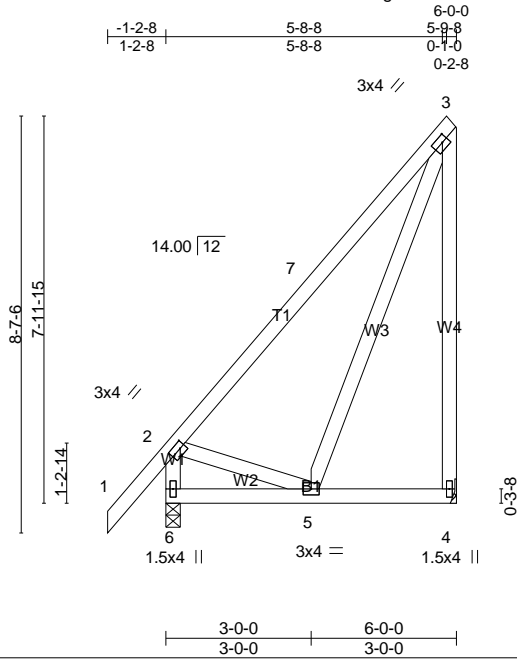
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right 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  
 ID:22cFc0egeM617Unx03s86jyEKXo-5FOu79eAz\_rU7xiGSyubnq7icZUfmNZtVcXMsFzPmiU



Scale: 1/4"=1'

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.52	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.05	Vert(LL) -0.00 5 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.28	Vert(CT) -0.01 5-6 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			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 Uplift 4=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-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=122.
  - 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  
ID:22cFc0egeM617Unx03s86jyEKXo-Wq40Ah2GvD3\_PQr84SuPTIE4nPhzj6JBZi0TazPmIR

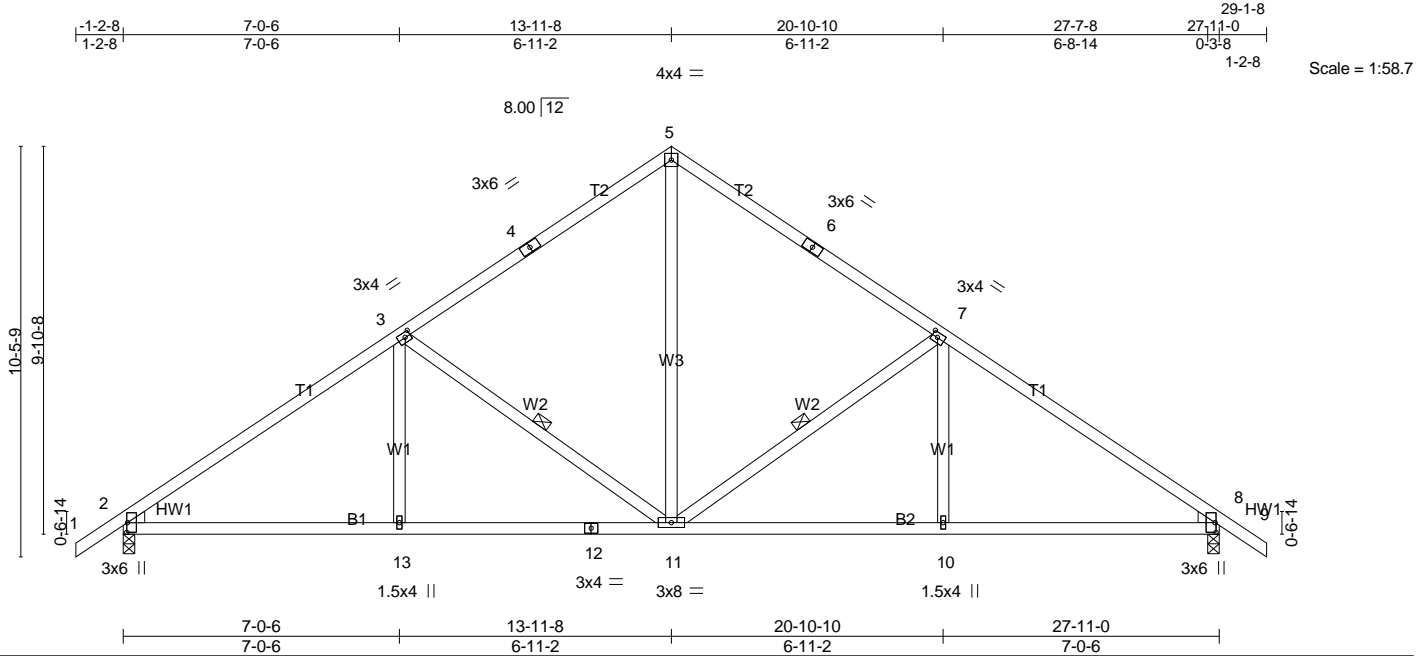


Plate Offsets (X,Y)-- [2:0-3-0,0-0-4], [3:0-1-12,0-1-8], [7:0-1-12,0-1-8], [8:0-3-0,0-0-4]					
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.50	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.41	Vert(LL) -0.06 8-10 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.30	Vert(CT) -0.14 8-10 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.05 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 150 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1	TOP CHORD Sheathed or 4-4-5 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-11, 3-11
WEDGE	
Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

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

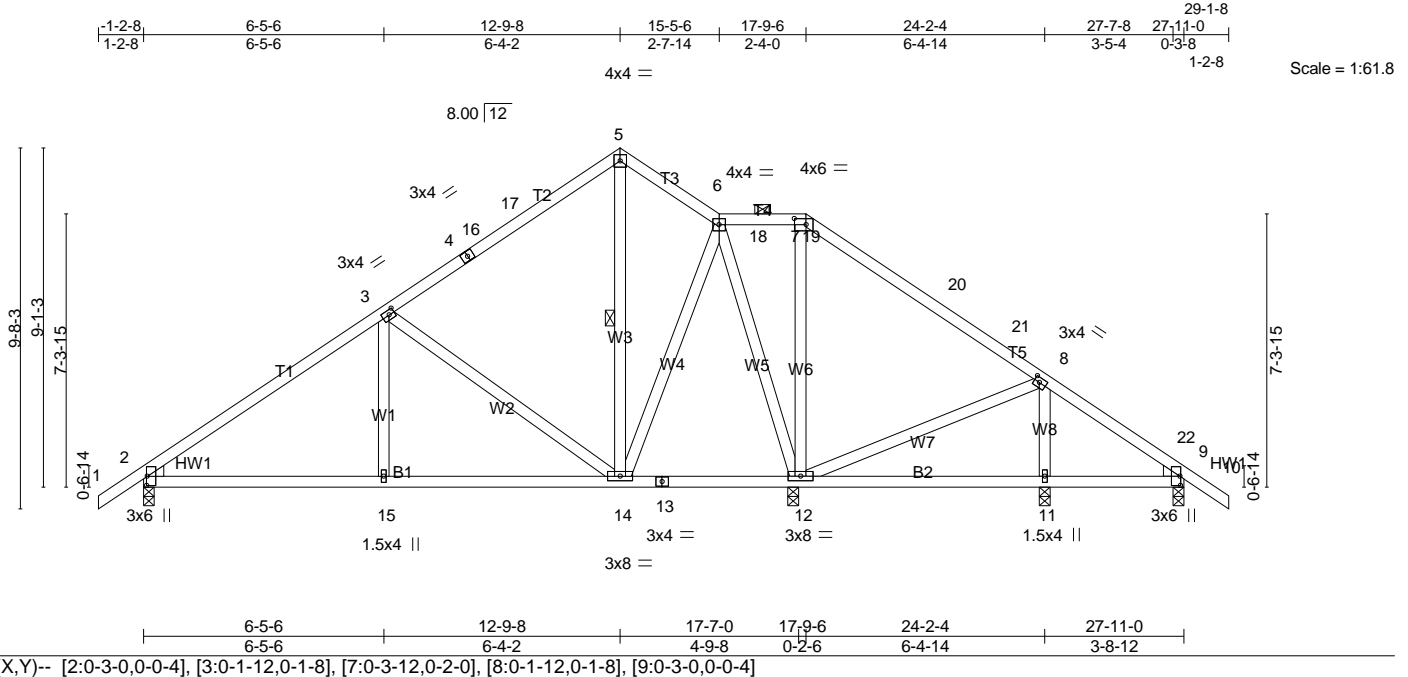
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical 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  
ID:22cFc0egeM617Unx03s86jyEKXo-SDCnAsiJnXTnEjaEFVUMUuqava7tRXtctfE7XSzPmIP



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

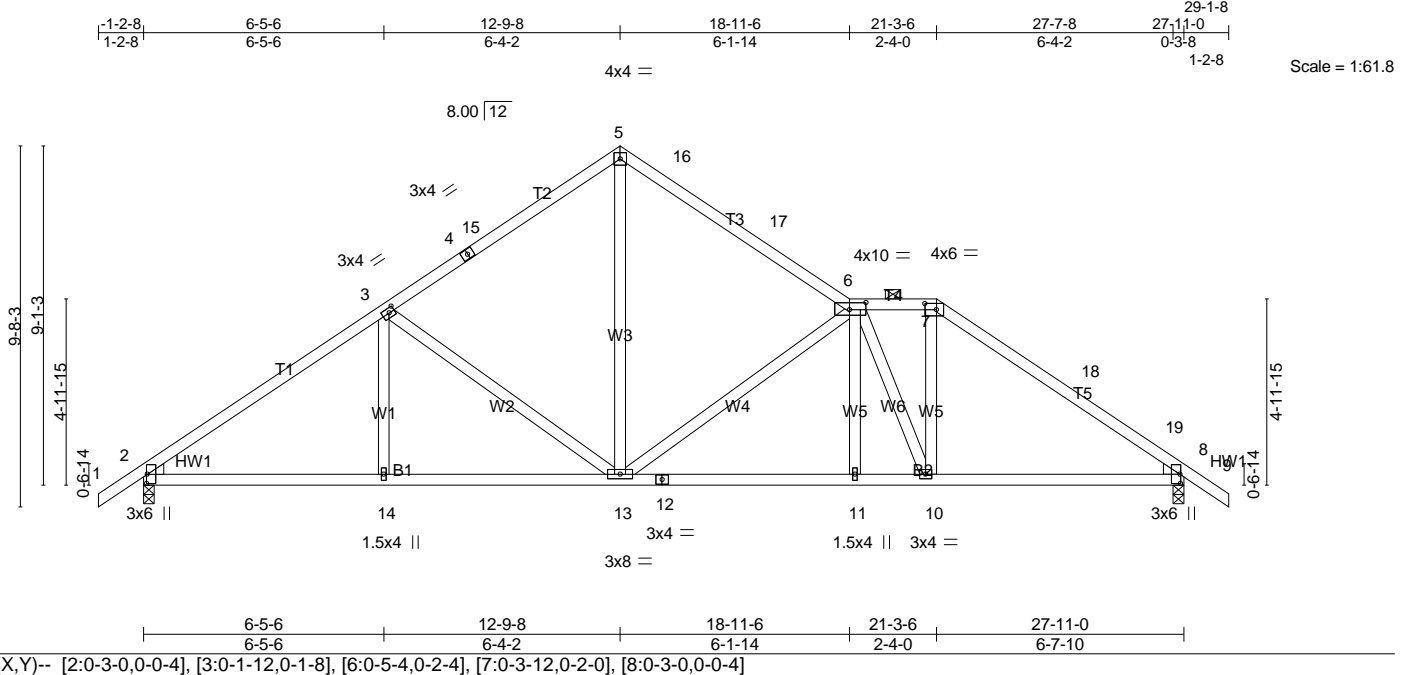
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 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.
  - 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.

Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:37 2024 Page 1  
 ID:22cFc0egeM617Unx03s86jyEKXo-wP19NCjxYqbert9QpD?b15Ngk\_R0AxLitX\_g4vzPmiO



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.80	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Plate Grip DOL 1.15	BC 0.44	Vert(LL) -0.06 8-10 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.84	Vert(CT) -0.15 11-13 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.05 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			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-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=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
  - 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.
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.
  - 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  
ID:22cFc0egeM617Unx03s86jyEKXo-K\_R10ElprizDiKu?ULZlfk?lcCVcNKeBZVCKgDzPmL

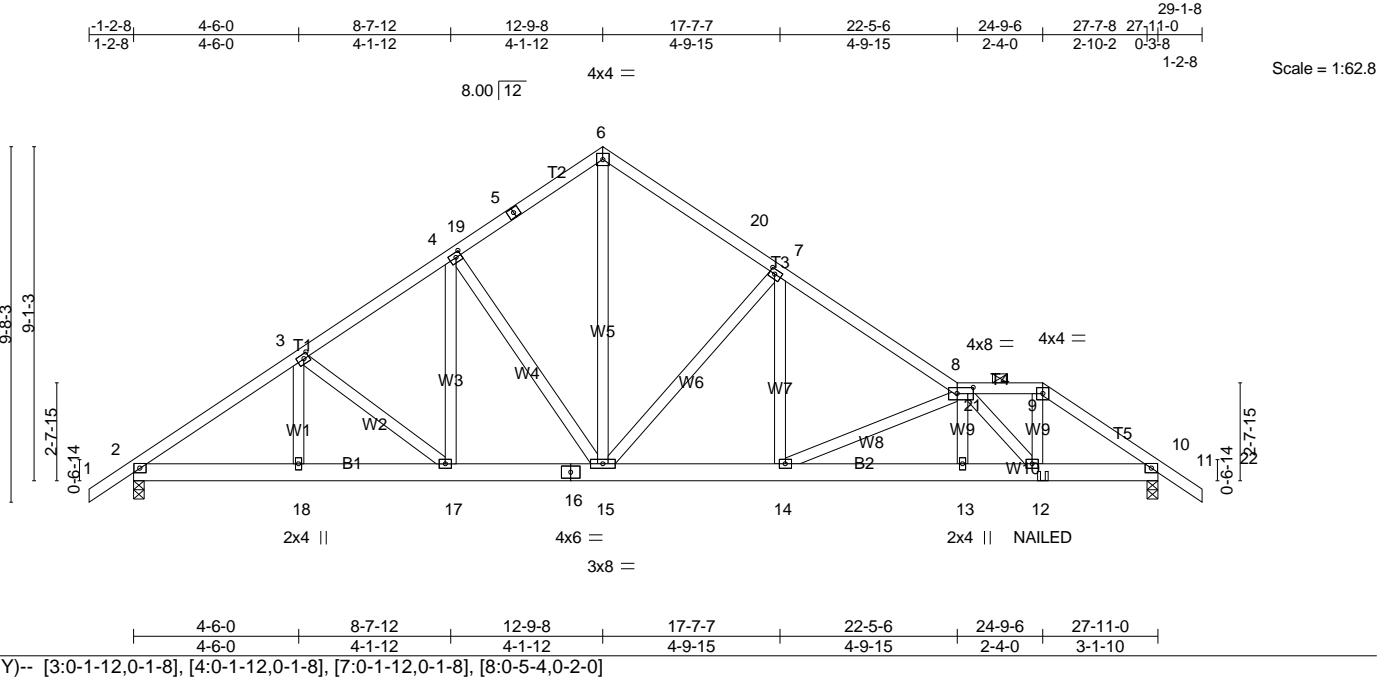


Plate Offsets (X,Y)-- [3:0-1-12,0-1-8], [4:0-1-12,0-1-8], [7:0-1-12,0-1-8], [8:0-5-4,0-2-0]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	I/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL (roof) 20.0	2-0-0	TC 0.37	Vert(LL)	-0.06 14	>999	240	MT20	244/190	
Snow (Pf/Pg) 16.5/15.0	Plate Grip DOL 1.15	BC 0.32	Vert(CT)	-0.12 13-14	>999	180			
TCDL 10.0	Lumber DOL 1.15	WB 0.74	Horz(CT)	0.04 10	n/a	n/a			
BCLL 0.0 *	Rep Stress Incr NO	Matrix-S							
BCDL 10.0	Code IRC2018/TPI2014								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

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 2  
 ID:22cFc0egeM617Unx03s86jyEKXo-K\_R10ElprizDiKu?ULZlfk?lcCVcNKeBZVCKgDzPmiL

**NOTES-**

13) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidelines.

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)

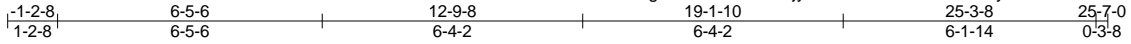
Vert: 12=89(F)



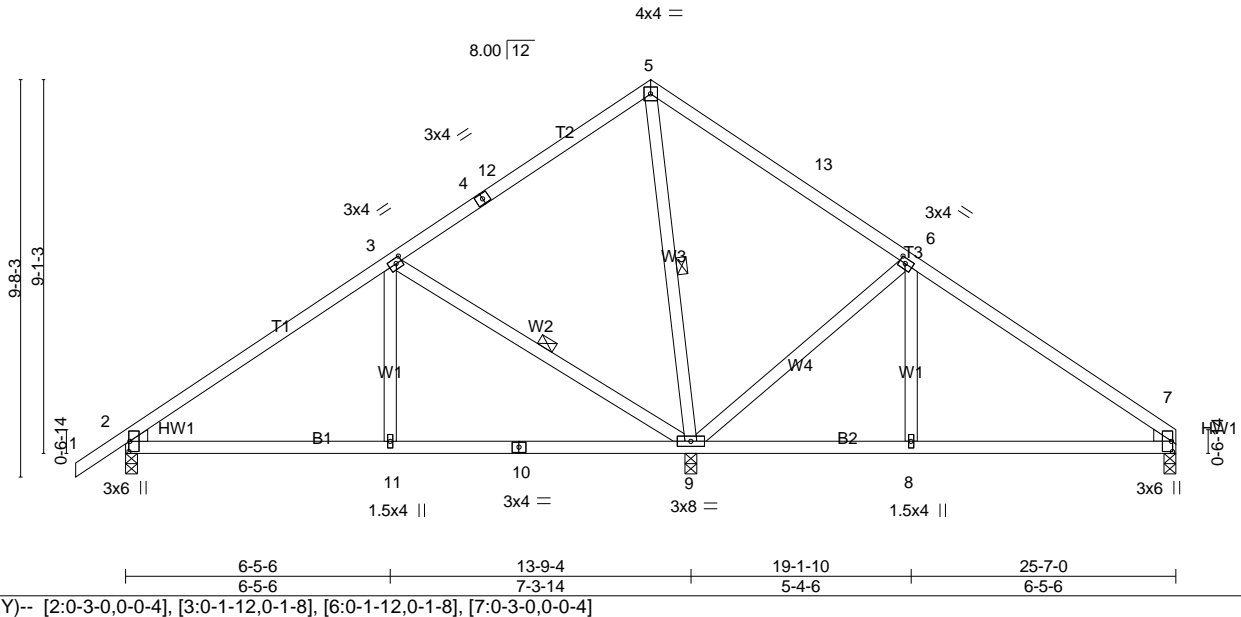
Job	Truss	Truss Type	Qty	Ply	RAY WICKERS
P24040749	T09	Common	2	1	Job Reference (optional)

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  
 ID:22cFc0egeM617Unx03s86jyEKXo-HNZ2Qvn4NNDWye1Ncmbmk94d2?ABrINU1phRl6zPmiJ



Scale = 1:56.1



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

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-9, 3-9
WEDGE	
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

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

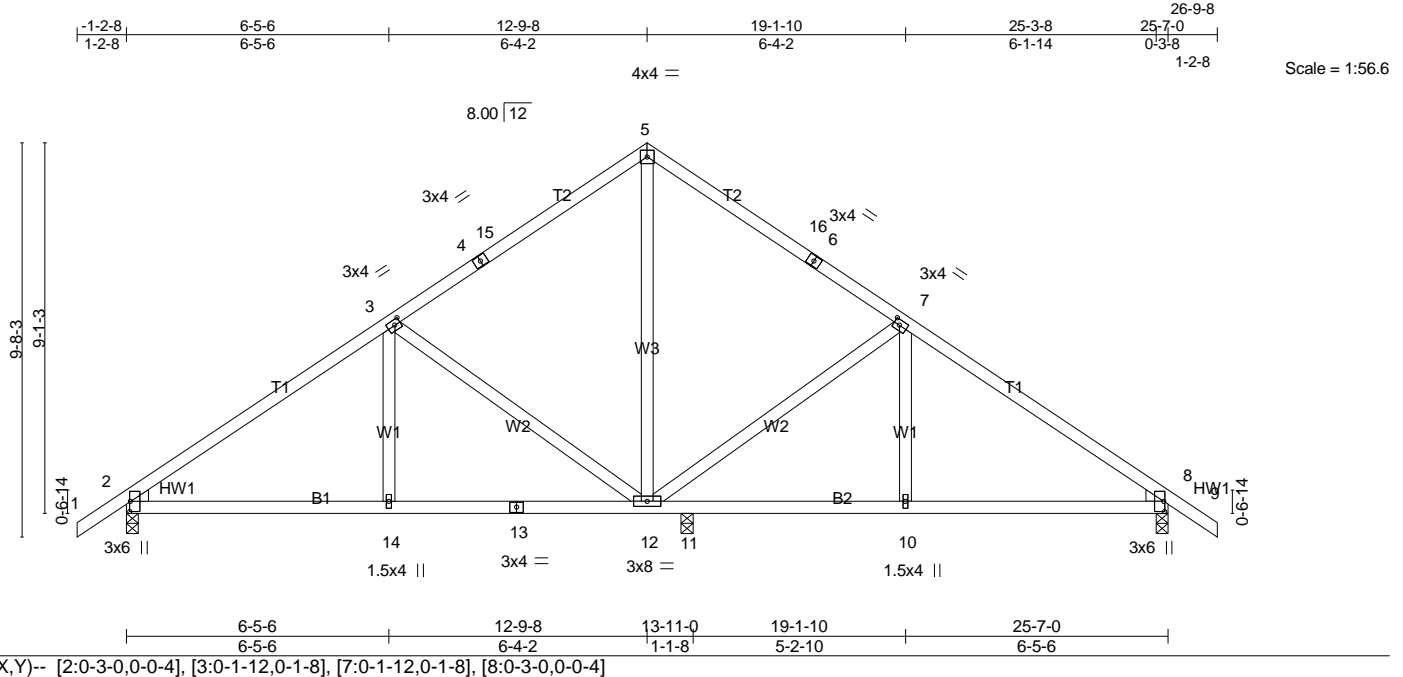
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical 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  
ID:22cFc0egeM617Unx03s86jyEKXo-Iz7QeFoi8gLnZoca9T6?GMdnBPT8ajfeGTR?HYzPml



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

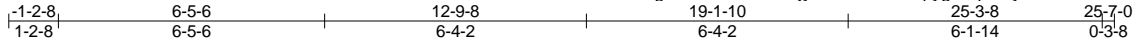
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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	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  
 ID:22cFc0egeM617Unx03s86jyEKXo-hxEB3xpyglbVp5myHu8TMni6AD9W2d7wjnw5MRzPmiG



Scale = 1:55.8

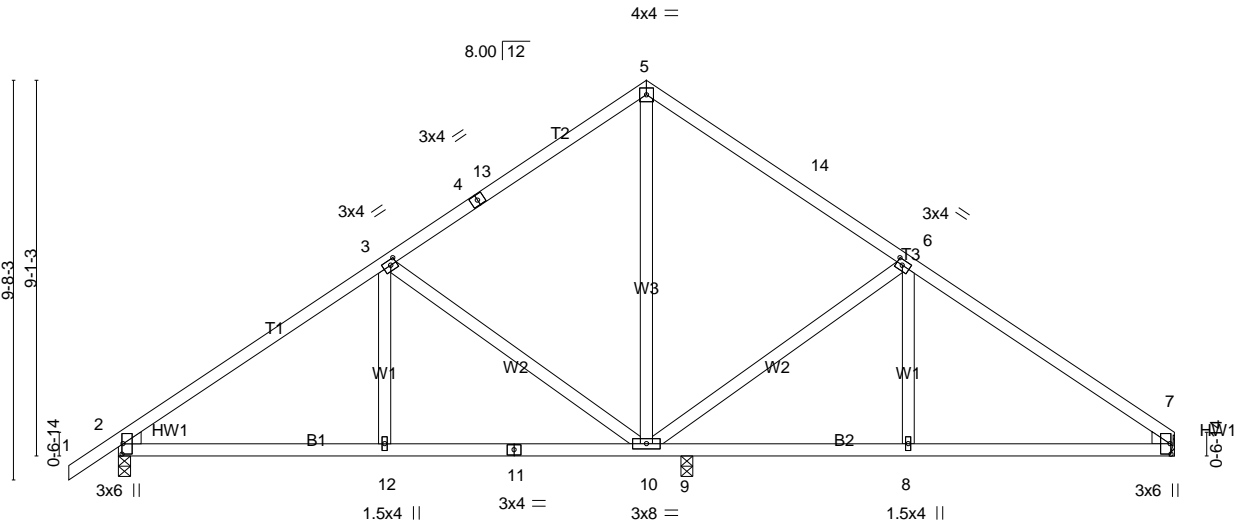


Plate Offsets (X,Y)-- [2:0-3-0,0-0-4], [3:0-1-12,0-1-8], [6:0-1-12,0-1-8], [7:0-3-0,0-0-4]

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

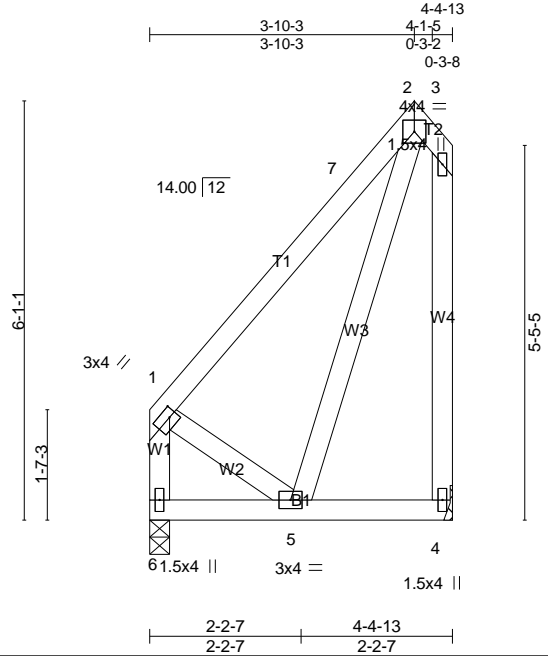
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed;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

**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  
 ID:22cFc0egeM617Unx03s86jyEKXo-98oZGHqRbjMQFL9rcglu?FLUcc2nD?4yRfutzPmiF



Scale = 1:33.5

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.22	Vert(LL)	0.01	5	>999	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT)	-0.01	5	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.05	Horz(CT)	-0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						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-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**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 16:32:52 2024 Page 2  
ID:22cFc0e6M617Unx03s86jyEKXo-\_l9qXKvL0RUW9AolBsm68GV0q1cmBlnyKN6z6XzPmi9

**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)

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 16:32:52 2024 Page 3  
ID:22cFc0geM617Unx03s86jyEKXo-\_l9qXKvL0RUW9AolBsm68GvOq1cmBlnyKN6z6XzPmi9

**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)

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 16:32:52 2024 Page 4  
ID:22cFc0egeM617Unx03s86jyEKXo-\_l9qXKvL0RUW9AolBsm68GV0q1cmBlnyKN6z6XzPmi9

**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)



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 16:32:52 2024 Page 5  
ID:22cF0cegeM617Unx03s86jyEKXo-\_l9qXKvL0RUW9AolBsm68GvOq1cmBlnyKN6z6XzPmi9

**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

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 16:32:52 2024 Page 6  
ID:22cFc0egeM617Unx03s86jyEKXo-\_l9qXKvL0RUW9AolBsm68GV0q1cmBlnyKN6z6XzPmi9

**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.Death + 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.Death + 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.Death + 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.Death + 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.Death + 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.Death + 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.Death + 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.Death + 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.Death + 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

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 16:32:52 2024 Page 7  
ID:22cFc0egeM617Unx03s86jyEKXo-\_l9qXKvL0RUW9AolBsm68GV0q1cmBlnyKN6z6XzPmi9

**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)

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 16:32:52 2024 Page 8  
ID:22cFc0egeM617Unx03s86jyEKXo-\_l9qXKvL0RUW9AolBsm68GV0q1cmBlnyKN6z6XzPmi9

**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)

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 16:32:52 2024 Page 9  
ID:22cFc0eGeM617Unx03s86jyEKXo-\_l9qXKvL0RUW9AolBsm68GVQo1cmBlnyKN6z6XzPmi9

**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

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 16:32:52 2024 Page 10  
 ID:22cFc0egeIM617Unx03s86jyEKXo-\_I9qXKvL0RUW9AolBsm68GV0q1cmBinyKN6z6XzPmi9

**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.

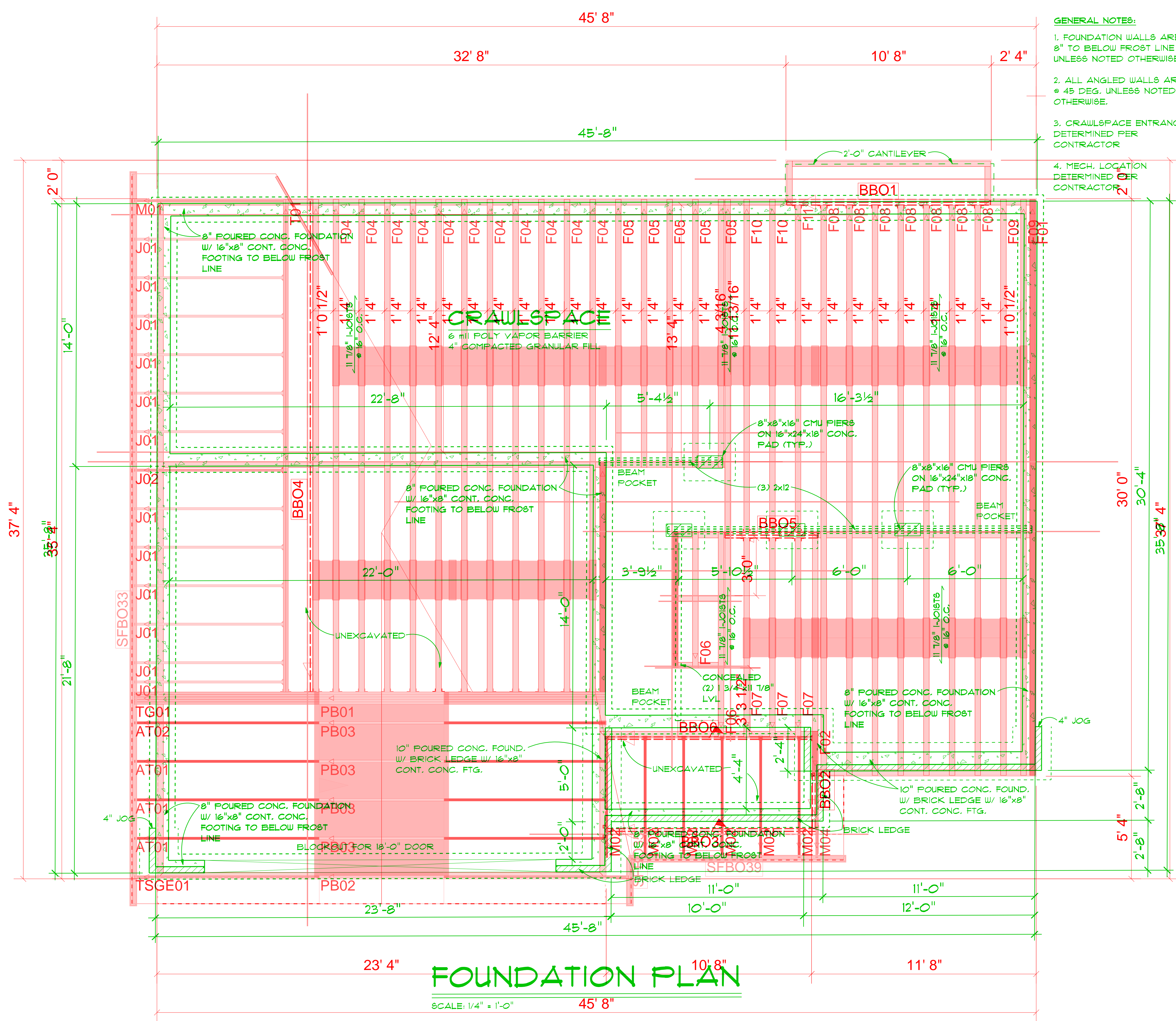
Run: 8.430 s Jan 20 2021 Print: 8.720 s Feb 1 2024 MiTek Industries, Inc. Wed Apr 17 16:32:55 2024 Page 2  
ID:22cFc0egeM617Unx03s86jyEKXo-Otry9MxEJMs40eXts?Kplu7tyFeiOFTP0LLdiszPmi6

**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





- GENERAL NOTES:**
1. FOUNDATION WALLS ARE 8" TO BELOW FROST LINE UNLESS NOTED OTHERWISE.
  2. ALL ANGLED WALLS ARE @ 45 DEG. UNLESS NOTED OTHERWISE.
  3. CRAWLSPACE ENTRANCE DETERMINED PER CONTRACTOR
  4. MECH. LOCATION DETERMINED PER CONTRACTOR

**NOTE**

IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER OR ARCHITECT TO PROVIDE AN APPROPRIATE CONNECTION FOR TRUSSES TO SUPPORTING STRUCTURE PERFECTIONS 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 WTCAL1-1995 "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.sbindustry.com/pubs/TTBDResp.D>

**LONGLEAF RUSS CO.**

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

Floor Area: 1043.11 SF  
Floor Plywood: 1125.3

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

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

**FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"

**ROOF TRUSS LAYOUT**  
1/4" = 1'-0"