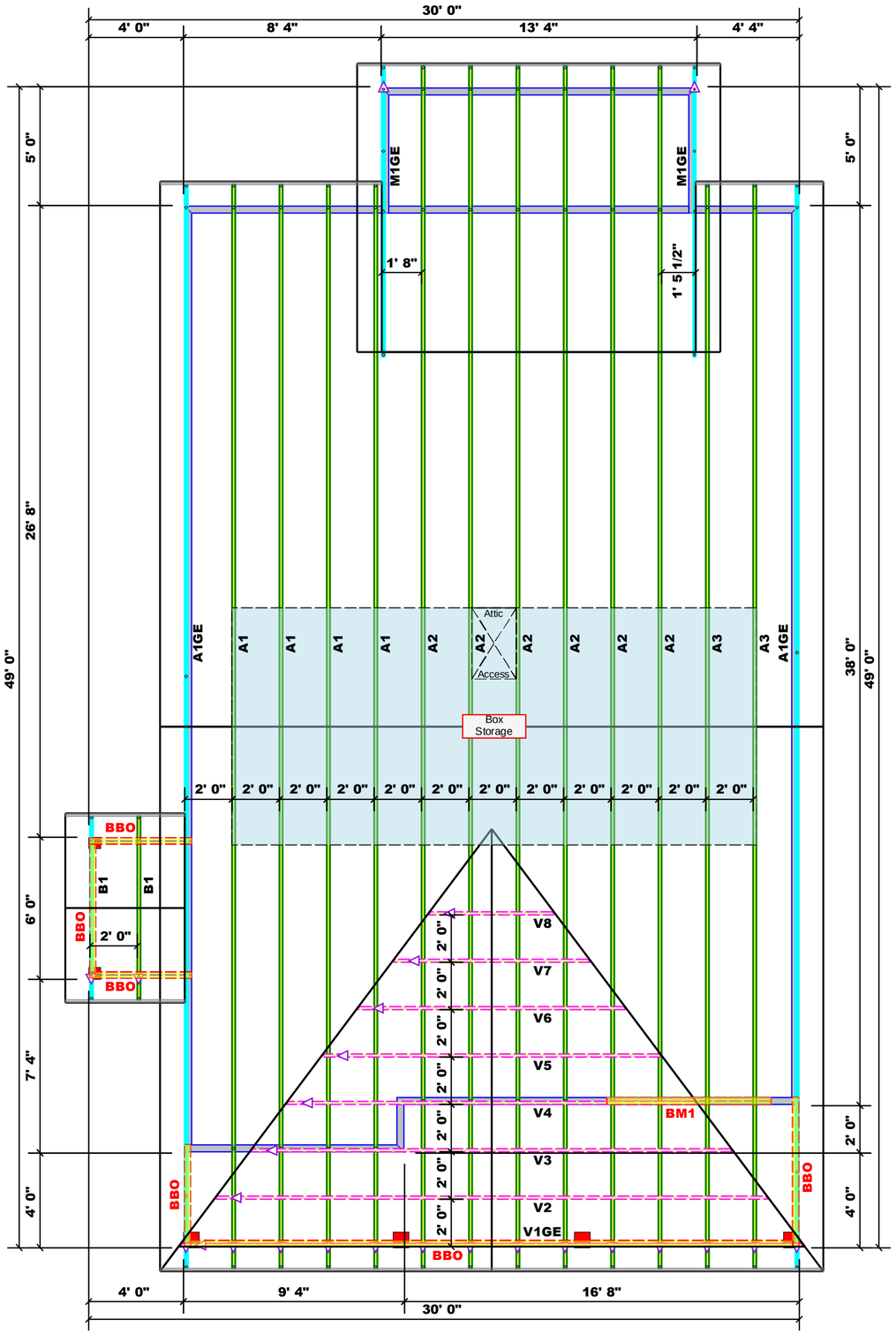



1 Truss Placement Plan
Scale: 1/4"=1'

All Headers Are Considered 2X10 Beams Unless Otherwise Noted

All Walls Shown Are Considered Load Bearing

| | |
|---|---|
| Roof Area | = 1626.94 sq.ft. |
| Ridge Line | = 33.04 ft. |
| Hip Line | = 1.4 ft. |
| Horiz. OH | = 77.5 ft. |
| Raked OH | = 127.47 ft. |
| Decking | = 56 sheets |

| Dimension Notes |
|---|
| 1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise<br>2. All interior wall dimensions are to face of stud unless noted otherwise<br>3. All exterior wall to truss dimensions are to face of stud unless noted otherwise |

| Hatch Legend |
|---|
| Box Storage |
| Drop Beam |

| Products | | | | |
|---|---|---|---|---|
| PlotID | Length | Product | Plies | Net Qty |
| BM1 | 7' 0" | 1-3/4"x 9-1/4" LVL Kerto-S | 2 | 2 |

▲= Denotes Left End of Truss
(Reference Engineered Truss Drawing)


COMTECH
ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444


Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables ( derived from the prescriptive Code requirements ) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature Jonathan Landry

Jonathan Landry

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (b))

NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER

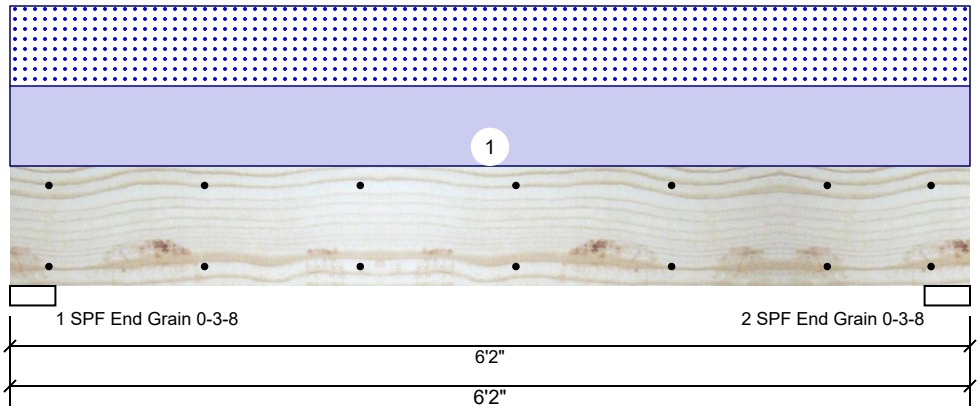
| END REACTION (UP TO) | REQ'D STUDS FOR (2) 9.5" HEADER | END REACTION (UP TO) | REQ'D STUDS FOR (3) 9.5" HEADER | END REACTION (UP TO) | REQ'D STUDS FOR (4) 9.5" HEADER |
|---|---|---|---|---|---|
| 1700 | 1 | 2550 | 1 | 3400 | 1 |
| 3400 | 2 | 5100 | 2 | 6800 | 2 |
| 5100 | 3 | 7650 | 3 | 10200 | 3 |
| 6800 | 4 | 10200 | 4 | 13600 | 4 |
| 8500 | 5 | 12750 | 5 | 17000 | 5 |
| 10200 | 6 | 15300 | 6 | | |
| 11900 | 7 | | | | |
| 13600 | 8 | | | | |
| 15300 | 9 | | | | |

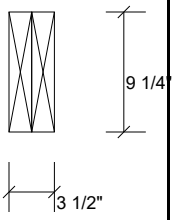
| | |
|---|---|
| BUILDER | Southern Touch Homes |
| JOB NAME | Lot 1 Barbeque Church Rd. |
| PLAN | Allie |
| SEAL DATE | N/A |
| QUOTE # | |
| JOB # | J1123-6542 |
| CITY / CO. | Sanford / Lee |
| ADDRESS | Barbecue Church Road |
| MODEL | Roof |
| DATE REV. | 11/30/23 |
| DRAWN BY | Jonathan Landry |
| SALES REP. | Lenny Norris |

| | | | |
|---|---|---|---|
| Client: | Southern Touch Homes | Date: | 11/30/2023 |
| Project: | Allie | Input by: | Jonathan Landry |
| Address: | Barbecue Church Road<br>Sanford, NC 27332 | Job Name: | Lot 1 Barbecue Church Rd. |
| | | Project #: | J1123-6542 |

# BM1 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level




## Member Information

| | | | |
|---|---|---|---|
| Type: | Girder | Application: | Floor |
| Plies: | 2 | Design Method: | ASD |
| Moisture Condition: | Dry | Building Code: | IBC/IRC 2015 |
| Deflection LL: | 480 | Load Sharing: | No |
| Deflection TL: | 360 | Deck: | Not Checked |
| Importance: | Normal - II | Ceiling: | Gypsum 1/2" |
| Temperature: | Temp <= 100°F | | |

## Reactions UNPATTERNED lb (Uplift)

| Brg | Direction | Live | Dead | Snow | Wind | Const |
|---|---|---|---|---|---|---|
| 1 | Vertical | 0 | 1629 | 1606 | 0 | 0 |
| 2 | Vertical | 0 | 1629 | 1606 | 0 | 0 |

## Bearings

| Bearing | Length | Dir. | Cap. | React D/L lb | Total | Ld. Case | Ld. Comb. |
|---|---|---|---|---|---|---|---|
| 1 - SPF End Grain | 3.500" | Vert | 31% | 1629 / 1606 | 3235 | L | D+S |
| 2 - SPF End Grain | 3.500" | Vert | 31% | 1629 / 1606 | 3235 | L | D+S |

## Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---|---|---|---|---|---|---|
| Moment | 4274 ft-lb | 3'1" | 14423 ft-lb | 0.296 (30%) | D+S | L |
| Unbraced | 4274 ft-lb | 3'1" | 10861 ft-lb | 0.393 (39%) | D+S | L |
| Shear | 2126 lb | 1' 3/4" | 7943 lb | 0.268 (27%) | D+S | L |
| LL Defl inch | 0.035 (L/1985) | 3'1" | 0.143 (L/480) | 0.242 (24%) | S | L |
| TL Defl inch | 0.069 (L/986) | 3'1" | 0.190 (L/360) | 0.365 (37%) | D+S | L |

## Design Notes

1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
3 Refer to last page of calculations for fasteners required for specified loads.
4 Girders are designed to be supported on the bottom edge only.
5 Top loads must be supported equally by all plies.
6 Top must be laterally braced at end bearings.
7 Lateral slenderness ratio based on single ply width.

| ID | Load Type | Location | Trib Width | Side | Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 | Const. 1.25 | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Uniform | | | Top | 521 PLF | 0 PLF | 521 PLF | 0 PLF | 0 PLF | A3 |
| | Self Weight | | | | 7 PLF | | | | | |

**Notes**

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

**Lumber**

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

**Handling & Installation**

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

**Manufacturer Info**

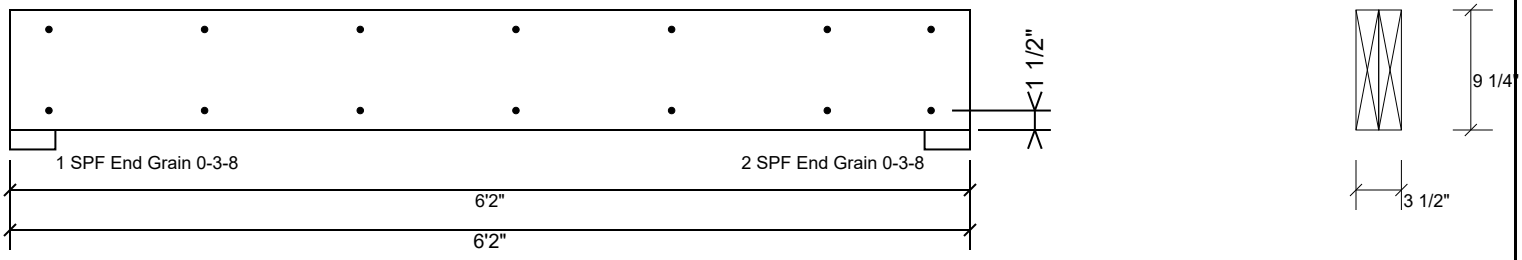
Metsä Wood
301 Merritt 7 Building, 2nd Floor
Norwalk, CT 06851
(800) 622-5850
www.metsawood.com/us

Comtech, Inc.
1001 S Reilly Road
Fayetteville
Cumberland
28314

| | | | |
|---|---|---|---|
| Client: | Southern Touch Homes | Date: | 11/30/2023 |
| Project: | Allie | Input by: | Jonathan Landry |
| Address: | Barbecue Church Road<br>Sanford, NC 27332 | Job Name: | Lot 1 Barbecue Church Rd. |
| | | Project #: | J1123-6542 |

# BM1 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level




## Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

| | |
|---|---|
| Capacity | 0.0 % |
| Load | 0.0 PLF |
| Yield Limit per Foot | 163.7 PLF |
| Yield Limit per Fastener | 81.9 lb. |
| $C_M$ | 1 |
| Yield Mode | IV |
| Edge Distance | 1 1/2" |
| Min. End Distance | 3" |
| Load Combination | |
| Duration Factor | 1.00 |

### Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

### Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

### Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

**Manufacturer Info**

Metsä Wood
301 Merritt 7 Building, 2nd Floor
Norwalk, CT 06851
(800) 622-5850
www.metsawood.com/us

Comtech, Inc.
1001 S Reilly Road
Fayetteville
Cumberland
28314

ENGINEERING BY TRENCO
A MiTek Affiliate

RE: J1123-6542
Lot 1 Barbecue Church Rd.

Trenco
818 Soundside Rd
Edenton, NC 27932

**Site Information:**

Customer: Southern Touch Homes
Project Name: J1123-6542
Lot/Block: 1
Model: Allie
Address: Barbecue Church Road
Subdivision: Barbecue Church Rd.
City: Sanford
State: NC

**General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):**

Design Code: IRC2015/TPI2014
Design Program: MiTek 20/20 8.4
Wind Code: ASCE 7-10
Wind Speed: 150 mph
Roof Load: 40.0 psf
Floor Load: N/A psf

This package includes 14 individual, dated Truss Design Drawings and 0 Additional Drawings.

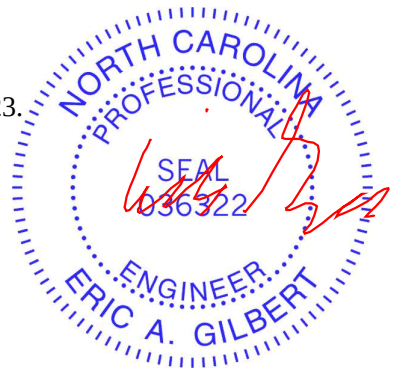
| No. | Seal# | Truss Name | Date |
|---|---|---|---|
| 1 | I62158871 | A1 | 11/22/2023 |
| 2 | I62158872 | A1GE | 11/22/2023 |
| 3 | I62158873 | A2 | 11/22/2023 |
| 4 | I62158874 | A3 | 11/22/2023 |
| 5 | I62158875 | B1 | 11/22/2023 |
| 6 | I62158876 | M1GE | 11/22/2023 |
| 7 | I62158877 | V1GE | 11/22/2023 |
| 8 | I62158878 | V2 | 11/22/2023 |
| 9 | I62158879 | V3 | 11/22/2023 |
| 10 | I62158880 | V4 | 11/22/2023 |
| 11 | I62158881 | V5 | 11/22/2023 |
| 12 | I62158882 | V6 | 11/22/2023 |
| 13 | I62158883 | V7 | 11/22/2023 |
| 14 | I62158884 | V8 | 11/22/2023 |

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844




IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

November 22, 2023

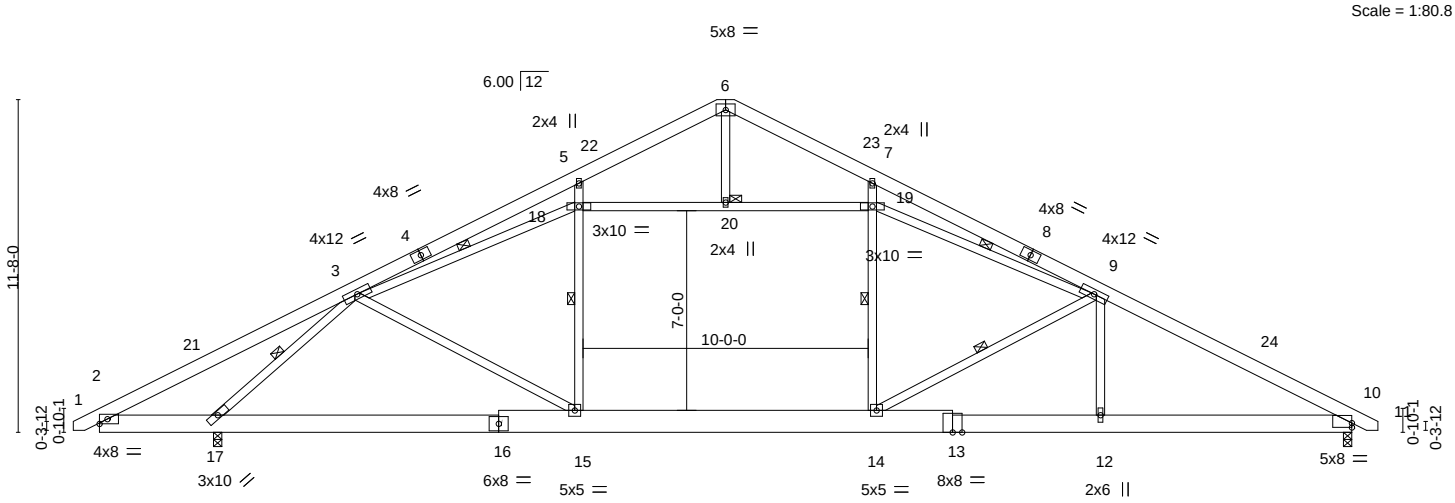
Gilbert, Eric

| Job | Truss | Truss Type | Qty | Ply | Lot 1 Barbecue Church Rd. |
|---|---|---|---|---|---|
| J1123-6542 | A1 | COMMON | 4 | 1 | I62158871 |
| | | | | | Job Reference (optional) |

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Nov 21 14:54:24 2023 Page 1
ID:0HBBE069enZ37z3NnPm79EyKfKQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

| -0-11-0 | 8-11-8 | 16-11-8 | 21-11-8 | 26-11-8 | 34-11-8 | 43-11-0 | 44-10-0 |
|---|---|---|---|---|---|---|---|
| 0-11-0 | 8-11-8 | 8-0-0 | 5-0-0 | 5-0-0 | 8-0-0 | 8-11-8 | 0-11-0 |

Scale = 1:80.8




| 4-1-12 | 16-11-8 | 26-11-8 | 34-11-8 | 43-11-0 |
|---|---|---|---|---|
| 4-1-12 | 12-9-12 | 10-0-0 | 8-0-0 | 8-11-8 |

Plate Offsets (X,Y)-- [10:0-0-0,0-1-13]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.34 | Vert(LL) | -0.29 | 12-14 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.62 | Vert(CT) | -0.45 | 12-14 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 1.00 | Horz(CT) | 0.05 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.27 | 12-14 | >999 | 240 | Weight: 378 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.1 |
| BOT CHORD | 2x8 SP No.1 *Except* 13-16: 2x10 SP No.1 |
| WEBS | 2x4 SP No.2 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 4-4-9 oc purlins. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-17. |
| WEBS | 1 Row at midpt 3-17, 5-15, 7-14, 9-14, 3-18, 9-19 |
| JOINTS | 1 Brace at Jt(s): 20 |

**REACTIONS.** (size) 10=0-3-8, 17=0-3-8
Max Horz 17=197(LC 11)
Max Uplift 10=-314(LC 13), 17=-363(LC 12)
Max Grav 10=1630(LC 2), 17=1976(LC 2)

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

| | |
|---|---|
| TOP CHORD | 2-3=-697/566, 3-5=-516/130, 5-6=-452/296, 6-7=-407/280, 7-9=-534/147, 9-10=-2912/996 |
| BOT CHORD | 2-17=-391/749, 15-17=-360/1612, 14-15=-408/2107, 12-14=-705/2476, 10-12=-704/2481 |
| WEBS | 3-17=-2560/1419, 3-15=-105/771, 15-18=0/409, 5-18=-403/380, 14-19=0/479, 7-19=-277/308, 9-14=-793/375, 9-12=-9/415, 18-20=-1784/700, 19-20=-1784/700, 3-18=-1853/725, 9-19=-1858/728 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 21-11-8, Exterior(2) 21-11-8 to 26-4-5, Interior(1) 26-4-5 to 44-7-10 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 314 lb uplift at joint 10 and 363 lb uplift at joint 17.


November 22,2023



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818 Soundside Road
Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Lot 1 Barbecue Church Rd. |
|---|---|---|---|---|---|
| J1123-6542 | A1GE | COMMON SUPPORTED GAB | 2 | 1 | I62158872 |
| | | | | | Job Reference (optional) |

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Nov 21 14:54:26 2023 Page 1
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-0-11-0 21-11-8 43-11-0 44-10-0
0-11-0 21-11-8 21-11-8 0-11-0

Scale = 1:80.8

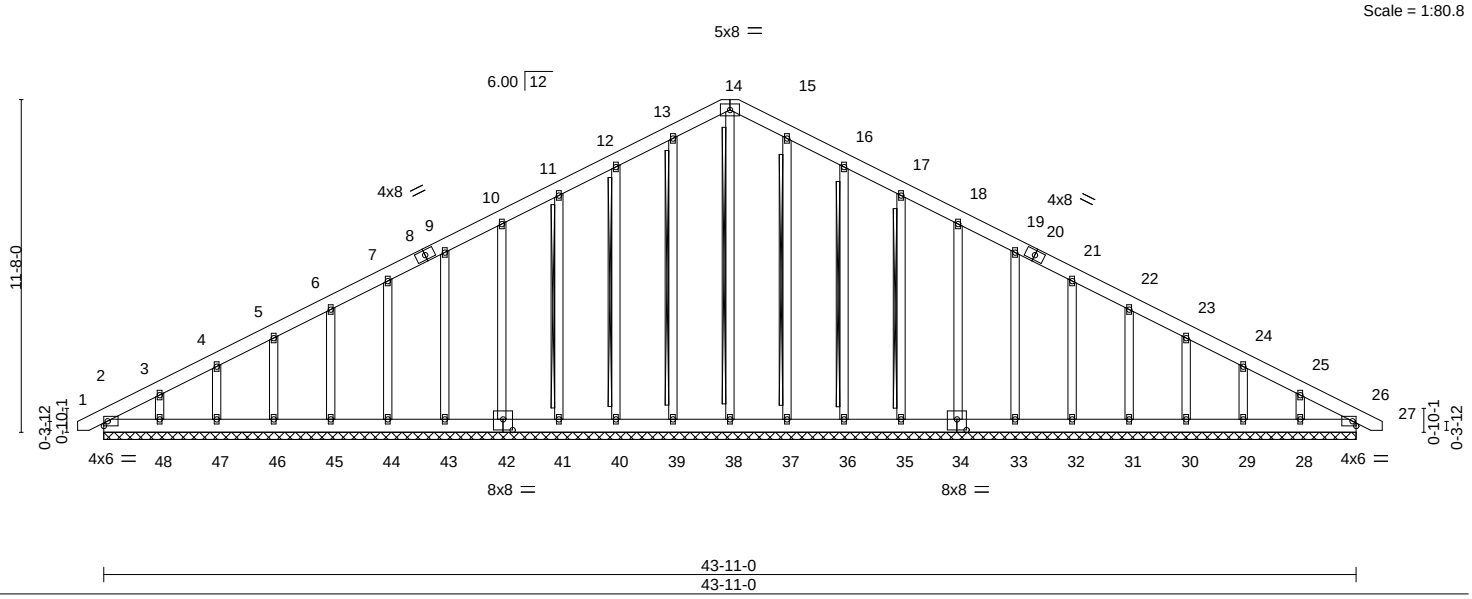


Plate Offsets (X,Y)-- [34:0-4-0,0-4-8], [42:0-4-0,0-4-8]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.08 | Vert(LL) | 0.00 | 26 | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | 0.00 | 26 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.18 | Horz(CT) | 0.01 | 26 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 400 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 14-38, 13-39, 12-40, 11-41, 15-37, 16-36, 17-35
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

**REACTIONS.** All bearings 43-11-0.
(lb) - Max Horz 2=305(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 2, 39, 37 except 40=-122(LC 12), 41=-109(LC 12), 42=-107(LC 12), 43=-107(LC 12), 44=-108(LC 12), 45=-108(LC 12), 46=-108(LC 12), 47=-108(LC 12), 48=-182(LC 12), 36=-126(LC 13), 35=-110(LC 13), 34=-107(LC 13), 33=-107(LC 13), 32=-108(LC 13), 31=-108(LC 13), 30=-108(LC 13), 29=-107(LC 13), 28=-164(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 26 except 38=256(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-446/137, 3-4=-332/131, 4-5=-261/151, 9-10=-93/285, 10-11=-119/324, 11-12=-146/374, 12-13=-176/459, 13-14=-190/506, 14-15=-190/506, 15-16=-176/459, 16-17=-146/374, 17-18=-119/296, 25-26=-314/102
BOT CHORD 2-48=-89/297, 47-48=-89/297, 46-47=-89/297, 45-46=-89/297, 44-45=-89/297, 43-44=-89/297, 42-43=-89/297, 41-42=-89/297, 40-41=-89/297, 39-40=-89/297, 38-39=-89/297, 37-38=-89/297, 36-37=-89/297, 35-36=-89/297, 34-35=-89/297, 33-34=-89/297, 32-33=-89/297, 31-32=-89/297, 30-31=-89/297, 29-30=-89/297, 28-29=-89/297, 26-28=-89/297
WEBS 14-38=-258/51

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf 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.


November 22,2023

Continued on page 2



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818 Soundside Road
Edenton, NC 27932

**NOTES-**

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 39, 37 except (jt=lb) 40=122, 41=109, 42=107, 43=107 , 44=108, 45=108, 46=108, 47=108, 48=182, 36=126, 35=110, 34=107, 33=107, 32=108, 31=108, 30=108, 29=107, 28=164.

10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

| Job | Truss | Truss Type | Qty | Ply | Lot 1 Barbecue Church Rd. |
|---|---|---|---|---|---|
| J1123-6542 | A2 | ROOF SPECIAL | 6 | 1 | I62158873<br>Job Reference (optional) |

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Nov 21 14:54:28 2023 Page 1
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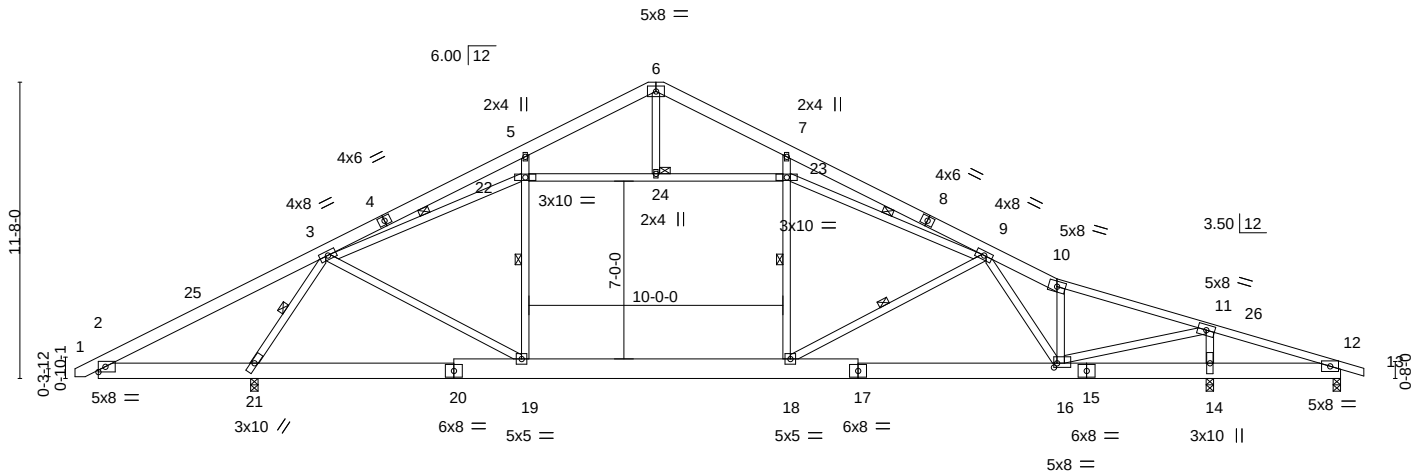
| -0-11-0 | 8-11-8 | 16-11-8 | 21-11-8 | 26-11-8 | 34-11-8 | 37-9-0 | 43-9-4 | 48-11-0 | 49-10-0 |
|---|---|---|---|---|---|---|---|---|---|
| 0-11-0 | 8-11-8 | 8-0-0 | 5-0-0 | 5-0-0 | 8-0-0 | 2-9-8 | 6-0-4 | 5-1-12 | 0-11-0 |

Scale = 1:90.7




| 6-1-12 | 16-11-8 | 26-11-8 | 37-9-0 | 43-9-4 | 48-11-0 |
|---|---|---|---|---|---|
| 6-1-12 | 10-9-12 | 10-0-0 | 10-9-8 | 6-0-4 | 5-1-12 |

Plate Offsets (X,Y)-- [16:0-1-8,0-2-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.65 | Vert(LL) | -0.27 | 16-18 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.56 | Vert(CT) | -0.50 | 16-18 | >903 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.75 | Horz(CT) | 0.02 | 14 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.28 | 16-18 | >999 | 240 | Weight: 408 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.1 *Except* 10-13: 2x4 SP No.1 |
| BOT CHORD | 2x8 SP No.1 *Except* 17-20: 2x10 SP No.1 |
| WEBS | 2x4 SP No.2 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 4-9-2 oc purlins. |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS | 1 Row at midpt 3-21, 5-19, 7-18, 9-18, 3-22, 9-23 |
| JOINTS | 1 Brace at Jt(s): 24 |

**REACTIONS.** (size) 21=0-3-8, 12=0-3-8, 14=0-3-8
Max Horz 21=-197(LC 10)
Max Uplift 21=-385(LC 12), 12=-540(LC 20), 14=-603(LC 13)
Max Grav 21=1995(LC 2), 12=167(LC 13), 14=2399(LC 2)

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

| | |
|---|---|
| TOP CHORD | 2-3=-505/776, 3-5=-471/118, 5-6=-430/283, 6-7=-379/273, 7-9=-490/121, 9-10=-1570/642, 10-11=-1523/553, 11-12=-793/1870 |
| BOT CHORD | 2-21=-570/581, 19-21=-200/791, 18-19=-315/1661, 16-18=-467/1652, 14-16=-1713/780, 12-14=-1713/780 |
| WEBS | 3-21=-2235/1089, 3-19=-253/1123, 19-22=-91/267, 5-22=-429/389, 18-23=0/365, 7-23=-296/357, 22-24=-1343/604, 23-24=-1343/604, 10-16=-402/212, 11-16=-1047/3074, 9-16=-515/234, 3-22=-1392/625, 9-23=-1397/627, 11-14=-2131/883 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 4-2-2, Interior(1) 4-2-2 to 21-11-8, Exterior(2) 21-11-8 to 27-1-4, Interior(1) 27-1-4 to 49-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=385, 12=540, 14=603.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Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Lot 1 Barbecue Church Rd. |
|---|---|---|---|---|---|
| J1123-6542 | A3 | COMMON | 2 | 1 | I62158874 |
| | | | | | Job Reference (optional) |

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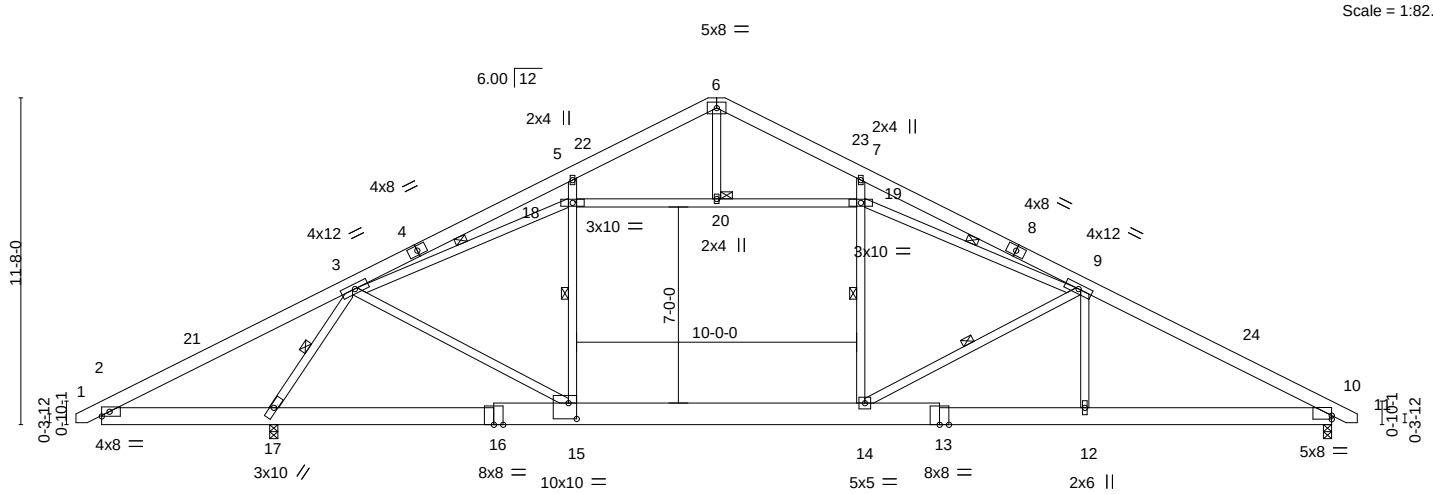
ID:0HBBE069enZ37z3NnPm79EyKfKQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

| -0-11-0 | 8-11-8 | 16-11-8 | 21-11-8 | 26-11-8 | 34-11-8 | 43-11-0 | 44-10-0 |
|---|---|---|---|---|---|---|---|
| 0-11-0 | 8-11-8 | 8-0-0 | 5-0-0 | 5-0-0 | 8-0-0 | 8-11-8 | 0-11-0 |

Scale = 1:82.3




| 6-1-12 | 16-11-8 | 26-11-8 | 34-11-8 | 43-11-0 |
|---|---|---|---|---|
| 6-1-12 | 10-9-12 | 10-0-0 | 8-0-0 | 8-11-8 |

Plate Offsets (X,Y)-- [10:0-0-0,0-1-9], [15:0-3-8,0-6-12]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.36 | Vert(LL) | -0.29 | 12-14 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.71 | Vert(CT) | -0.52 | 12-14 | >879 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.72 | Horz(CT) | 0.04 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.31 | 12-14 | >999 | 240 | Weight: 376 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.1 |
| BOT CHORD | 2x8 SP No.1 *Except* 13-16: 2x10 SP No.1 |
| WEBS | 2x4 SP No.2 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 4-6-11 oc purlins. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-17. |
| WEBS | 1 Row at midpt 3-17, 5-15, 7-14, 9-14, 3-18, 9-19 |
| JOINTS | 1 Brace at Jt(s): 20 |

**REACTIONS.** (size) 17=0-3-8, 10=0-3-8
Max Horz 17=197(LC 11)
Max Uplift 17=-383(LC 12), 10=-303(LC 13)
Max Grav 17=2083(LC 2), 10=1524(LC 2)

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

| | |
|---|---|
| TOP CHORD | 2-3=-834/801, 3-5=-489/121, 5-6=-448/294, 6-7=-387/272, 7-9=-517/136, 9-10=-2715/901 |
| BOT CHORD | 2-17=-593/866, 15-17=-197/906, 14-15=-263/1823, 12-14=-620/2301, 10-12=-621/2309 |
| WEBS | 3-17=-2389/1351, 3-15=-412/1275, 15-18=-74/308, 5-18=-437/390, 14-19=0/422, 7-19=-254/298, 9-14=-883/454, 9-12=-47/483, 18-20=-1493/560, 19-20=-1493/560, 3-18=-1548/579, 9-19=-1556/583 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 21-11-8, Exterior(2) 21-11-8 to 26-4-5, Interior(1) 26-4-5 to 44-7-10 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=383, 10=303.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| Job | Truss | Truss Type | Qty | Ply | Lot 1 Barbecue Church Rd. |
|---|---|---|---|---|---|
| J1123-6542 | B1 | COMMON | 2 | 1 | I62158875<br>Job Reference (optional) |

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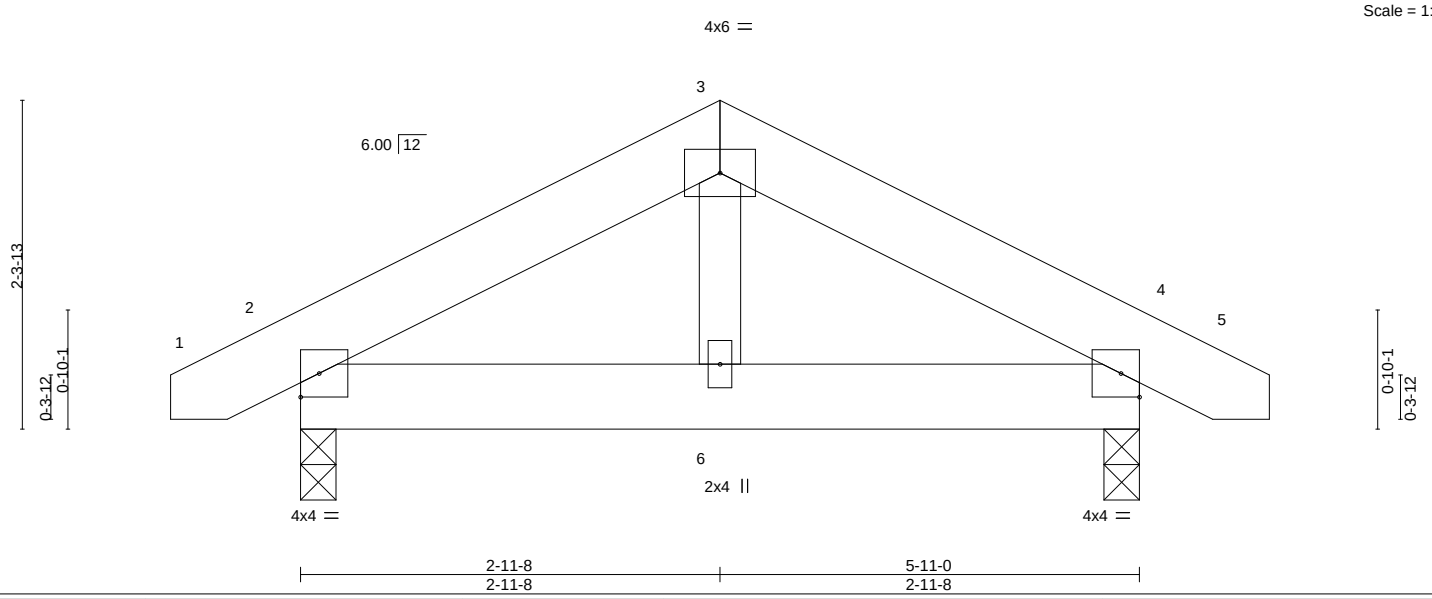
-0-11-0 2-11-8 5-11-0 6-10-0
0-11-0 2-11-8 2-11-8 0-11-0

Scale = 1:16.3




| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.17 | Vert(LL) | 0.00 | 6 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.23 | Vert(CT) | -0.00 | 6 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | -0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-P | | | | | | | Weight: 37 lb | FT = 20% |

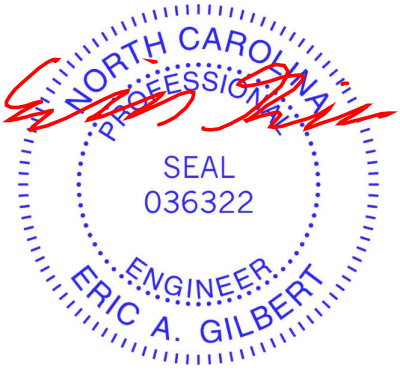
**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-11-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=0-3-0, 4=0-3-0
Max Horz 2=32(LC 11)
Max Uplift 2=-95(LC 9), 4=-95(LC 8)
Max Grav 2=277(LC 1), 4=277(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-249/420, 3-4=-249/420
BOT CHORD 2-6=-256/167, 4-6=-256/167

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.

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| Job | Truss | Truss Type | Qty | Ply | Lot 1 Barbecue Church Rd. |
|---|---|---|---|---|---|
| J1123-6542 | M1GE | GABLE | 2 | 1 | I62158876 |
| | | | | | Job Reference (optional) |

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-0-11-0 5-3-8 9-3-8 11-4-0
0-11-0 5-3-8 4-0-0 2-0-8

Scale = 1:23.6

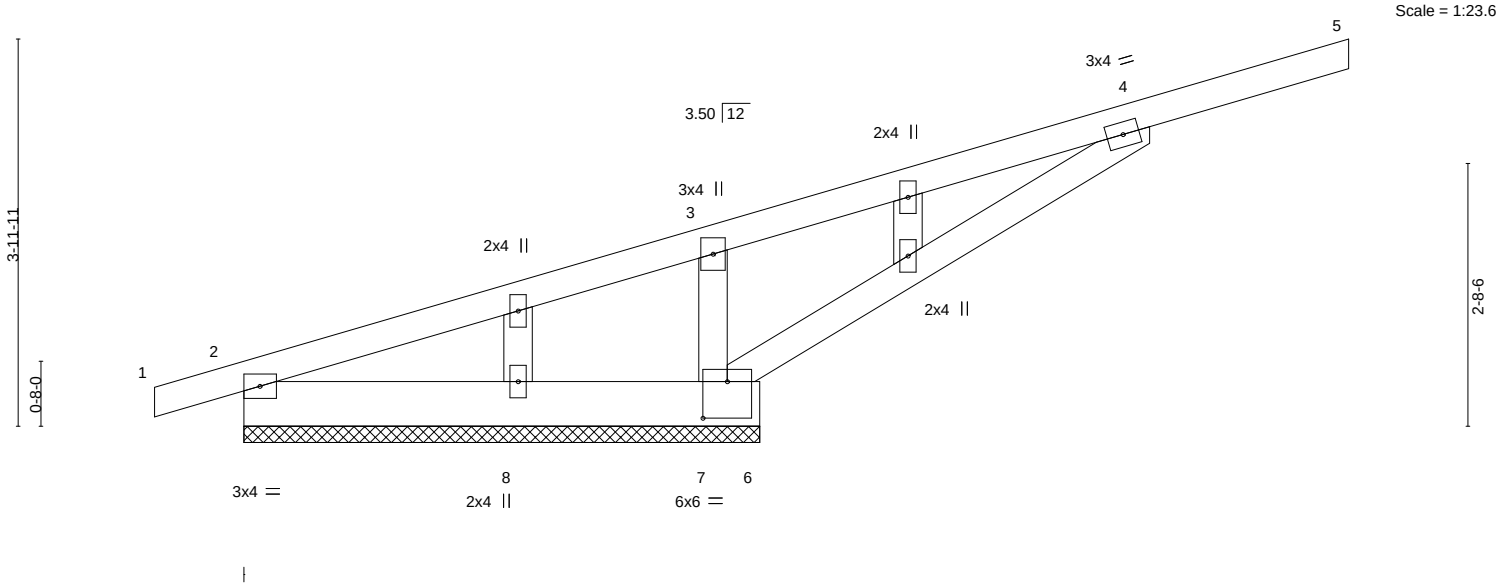


Plate Offsets (X,Y)-- [2:0-0-1,0-0-0], [7:0-3-0,0-4-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.33 | Vert(LL) | -0.05 | 4-5 | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.09 | Vert(CT) | -0.03 | 4-5 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.41 | Horz(CT) | 0.00 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-P | | | | | | | Weight: 43 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-11-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (size) 7=5-3-8, 2=5-3-8, 8=5-3-8
Max Horz 2=217(LC 12)
Max Uplift 7=-694(LC 12), 2=-38(LC 1)
Max Grav 7=819(LC 1), 2=165(LC 9), 8=120(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1486/767, 3-4=-1304/735, 3-7=-352/538
BOT CHORD 2-8=-671/1116, 7-8=-671/1116
WEBS 4-7=-808/1345

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
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 30.0psf 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 except (jt=lb) 7=694.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.


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| Job | Truss | Truss Type | Qty | Ply | Lot 1 Barbecue Church Rd. |
|---|---|---|---|---|---|
| J1123-6542 | V1GE | GABLE | 1 | 1 | I62158877 |
| | | | | | Job Reference (optional) |

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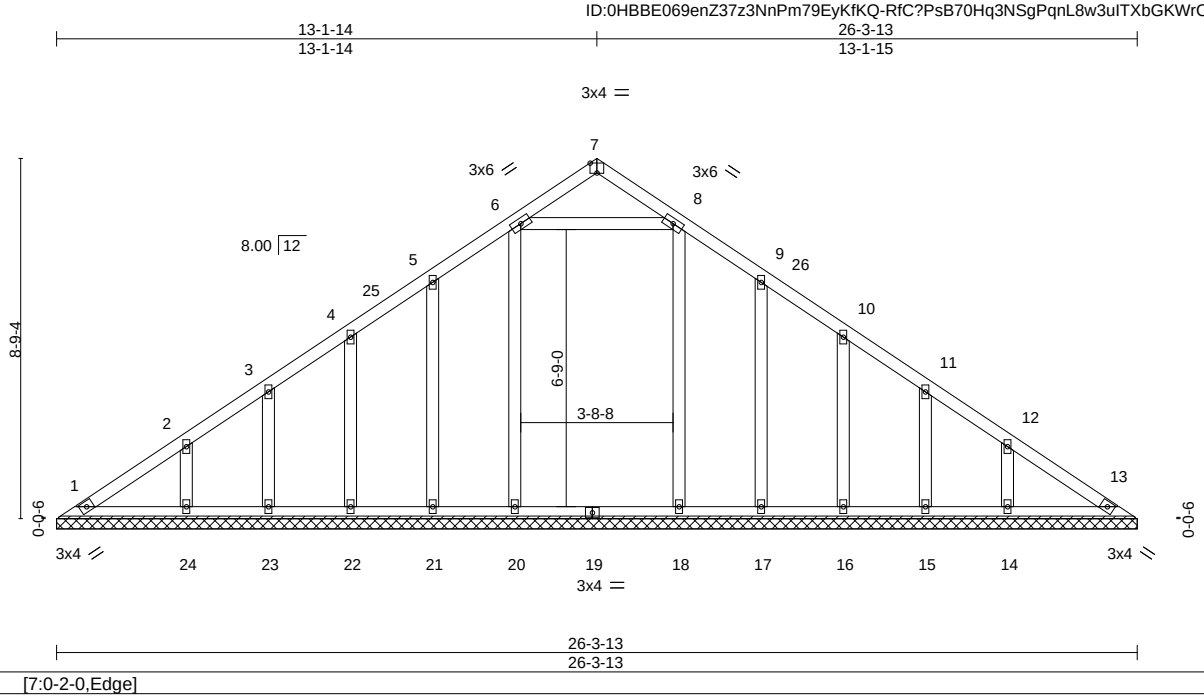


Plate Offsets (X,Y)-- [7:0-2-0,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.07 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.13 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.17 | Horz(CT) | 0.00 | 13 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 153 lb | FT = 20% |

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

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

**REACTIONS.** All bearings 26-3-13.
(lb) - Max Horz 1=270(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 20, 21, 22, 23, 17, 16, 15 except 24=-108(LC 12), 14=-108(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 13, 21, 22, 23, 17, 16, 15 except 20=385(LC 19), 24=255(LC 19), 18=339(LC 20), 14=255(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-262/265, 8-9=-262/265

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 5-1-14, Interior(1) 5-1-14 to 13-1-14, Exterior(2) 13-1-14 to 17-6-11, Interior(1) 17-6-11 to 25-9-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
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 30.0psf 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.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 20, 21, 22, 23, 17, 16, 15 except (jt=lb) 24=108, 14=108.


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818 Soundside Road
Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Lot 1 Barbecue Church Rd. |
|---|---|---|---|---|---|
| J1123-6542 | V2 | VALLEY | 1 | 1 | I62158878 |
| | | | | | Job Reference (optional) |

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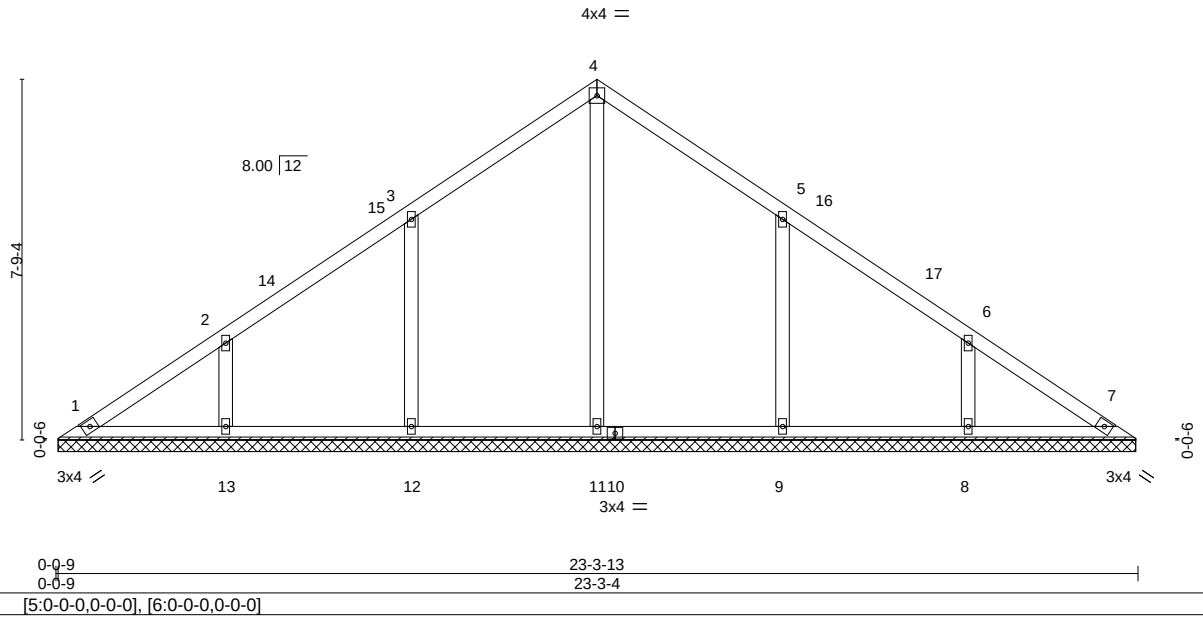


Plate Offsets (X,Y)-- [5:0-0-0,0-0-0], [6:0-0-0,0-0-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.15 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.19 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.17 | Horz(CT) | 0.00 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 104 lb | FT = 20% |

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

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

**REACTIONS.** All bearings 23-2-11.
(lb) - Max Horz 1=-238(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 12=-170(LC 12), 13=-151(LC 12), 9=-169(LC 13), 8=-151(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=461(LC 22), 12=475(LC 19), 13=345(LC 19), 9=474(LC 20), 8=346(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-253/243, 4-5=-253/243
WEBS 3-12=-386/290, 2-13=-348/267, 5-9=-386/290, 6-8=-348/268

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 11-7-14, Exterior(2) 11-7-14 to 16-0-11, Interior(1) 16-0-11 to 22-9-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
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 30.0psf 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 12=170, 13=151, 9=169, 8=151.
7) N/A


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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Lot 1 Barbecue Church Rd. |
|---|---|---|---|---|---|
| J1123-6542 | V3 | VALLEY | 1 | 1 | I62158879 |
| | | | | | Job Reference (optional) |

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Nov 21 14:54:35 2023 Page 1
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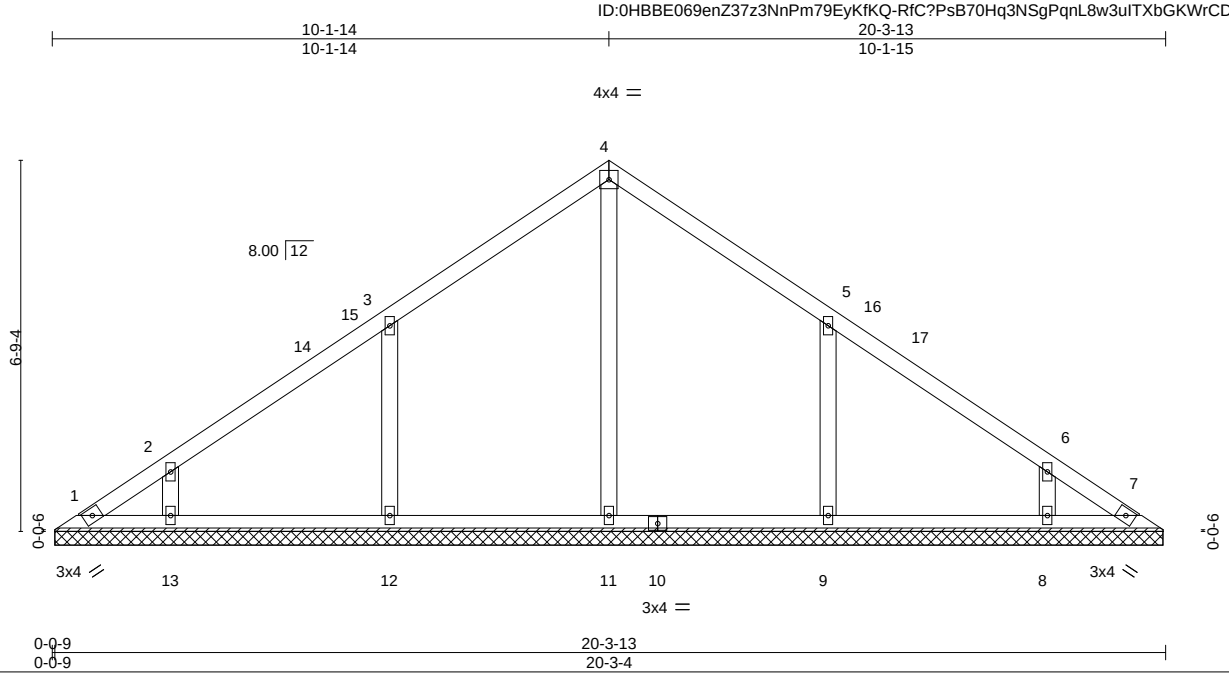


Plate Offsets (X,Y)-- [5:0-0-0,0-0-0], [6:0-0-0,0-0-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.16 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.19 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.12 | Horz(CT) | 0.00 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 87 lb | FT = 20% |

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

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

**REACTIONS.** All bearings 20-2-11.
(lb) - Max Horz 1=-206(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=-174(LC 12), 13=-125(LC 12), 9=-174(LC 13), 8=-125(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=452(LC 19), 12=487(LC 19), 13=281(LC 19), 9=486(LC 20), 8=281(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-12=-395/296, 2-13=-297/245, 5-9=-395/296, 6-8=-298/245

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 10-1-14, Exterior(2) 10-1-14 to 14-6-11, Interior(1) 14-6-11 to 19-9-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
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 30.0psf 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 12=174, 13=125, 9=174, 8=125.
7) N/A


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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Lot 1 Barbecue Church Rd. |
|---|---|---|---|---|---|
| J1123-6542 | V4 | VALLEY | 1 | 1 | I62158880 |
| | | | | | Job Reference (optional) |

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Nov 21 14:54:36 2023 Page 1
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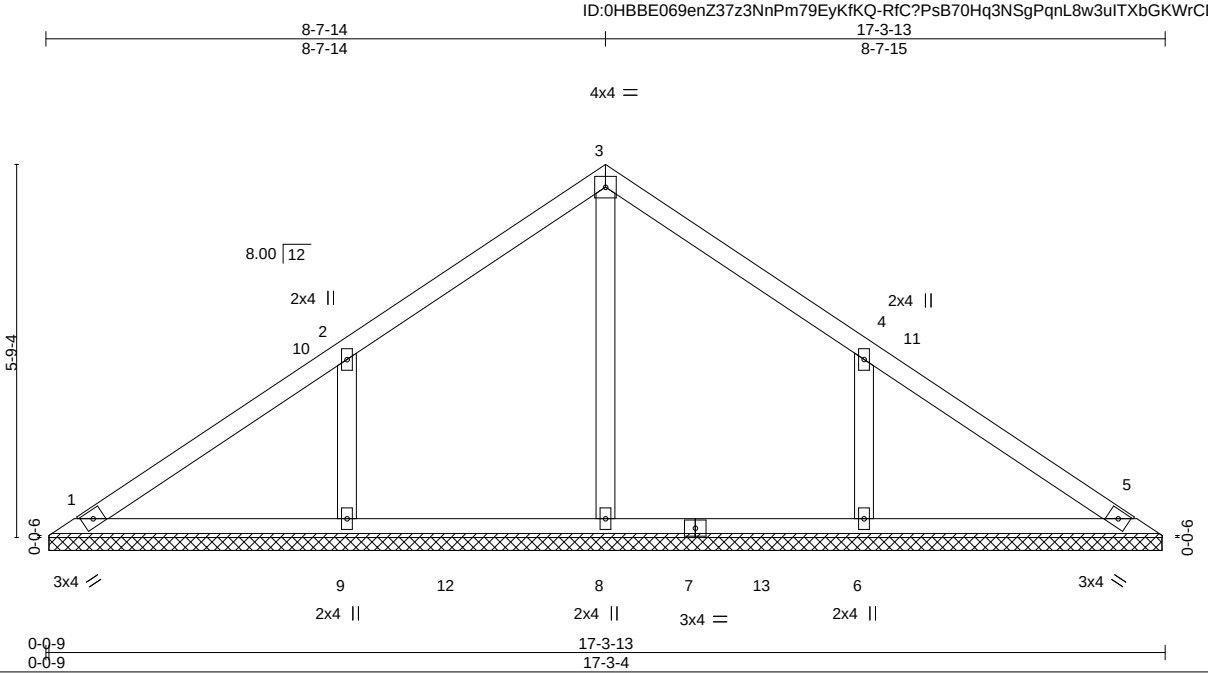



Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.19 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.15 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.08 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 70 lb | FT = 20% |

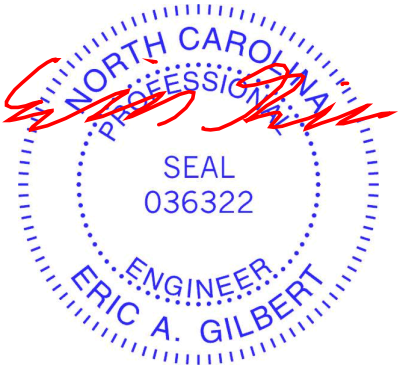
**LUMBER-**
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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

**REACTIONS.** All bearings 17-2-11.
(lb) - Max Horz 1=174(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-194(LC 12), 6=-194(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=405(LC 19), 9=470(LC 19), 6=470(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-430/315, 4-6=-430/315

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-7-14, Interior(1) 4-7-14 to 8-7-14, Exterior(2) 8-7-14 to 13-0-11, Interior(1) 13-0-11 to 16-9-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=194, 6=194.
6) N/A




November 22,2023



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818 Soundside Road
Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Lot 1 Barbecue Church Rd. |
|---|---|---|---|---|---|
| J1123-6542 | V5 | VALLEY | 1 | 1 | I62158881 |
| | | | | | Job Reference (optional) |

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Nov 21 14:54:37 2023 Page 1
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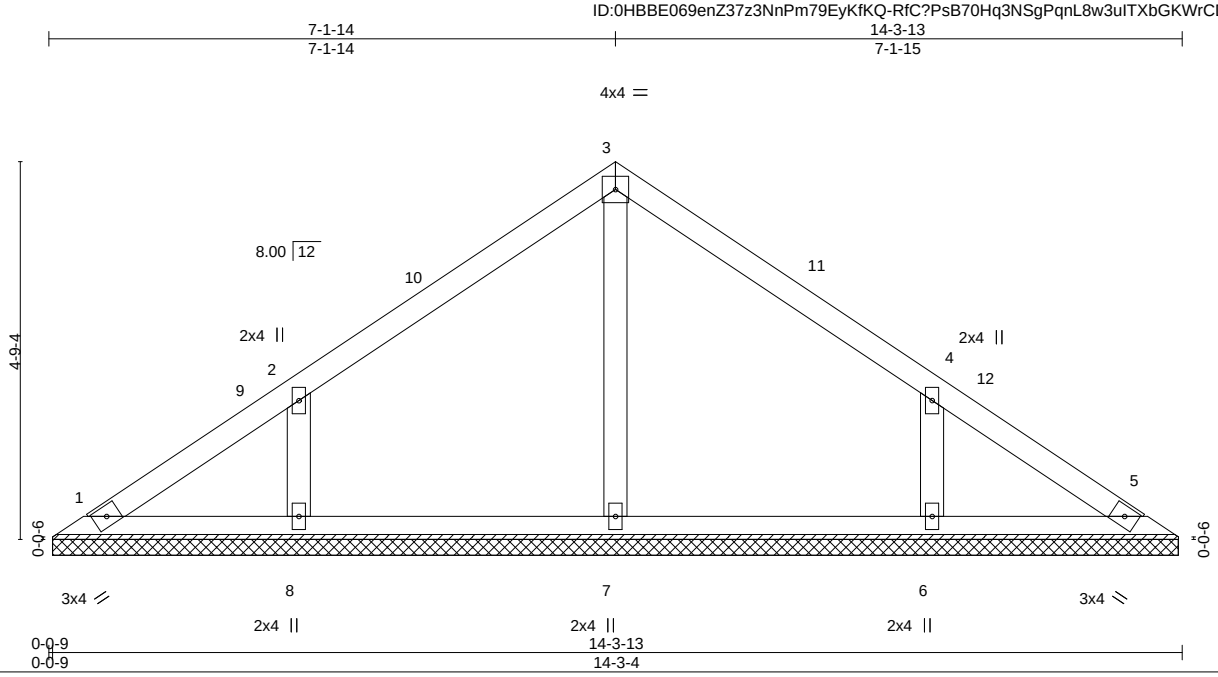


Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.09 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 56 lb | FT = 20% |

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

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

**REACTIONS.** All bearings 14-2-11.
(lb) - Max Horz 1=-142(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-161(LC 12), 6=-160(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=260(LC 1), 8=361(LC 19), 6=361(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-361/281, 4-6=-361/281

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 7-1-14, Exterior(2) 7-1-14 to 11-6-11, Interior(1) 11-6-11 to 13-9-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=161, 6=160.
6) N/A


November 22,2023



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| Job | Truss | Truss Type | Qty | Ply | Lot 1 Barbecue Church Rd. |
|---|---|---|---|---|---|
| J1123-6542 | V6 | VALLEY | 1 | 1 | I62158882 |
| | | | | | Job Reference (optional) |

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Nov 21 14:54:39 2023 Page 1
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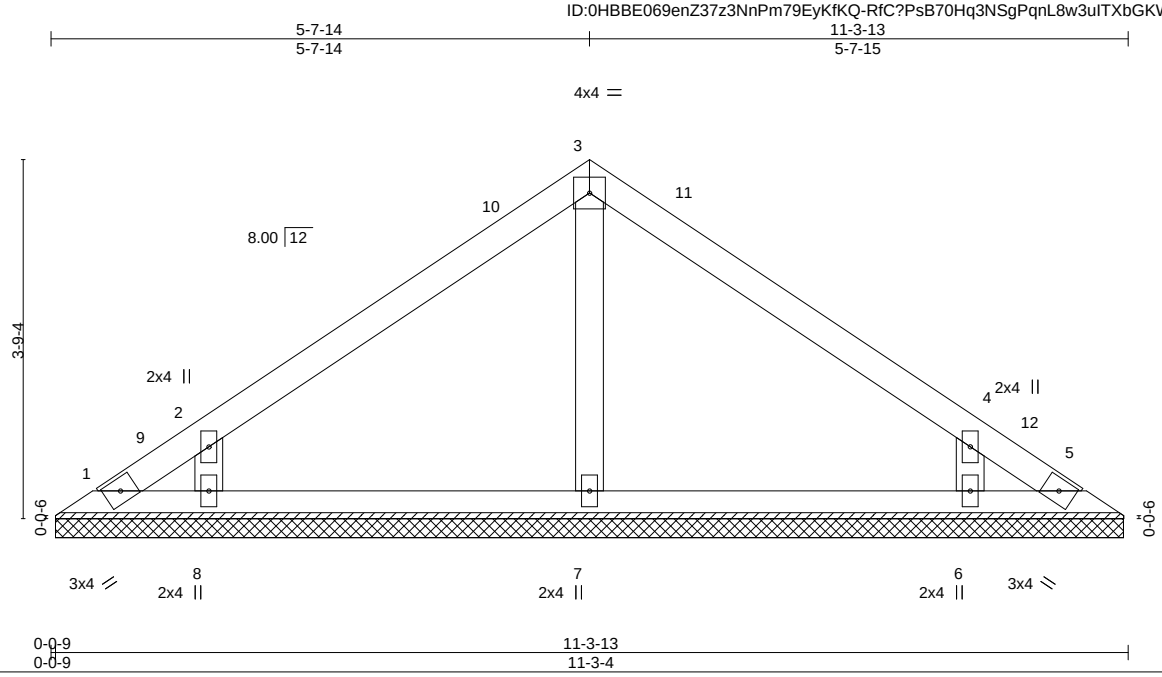


Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.14 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.09 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 42 lb | FT = 20% |

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

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

**REACTIONS.** All bearings 11-2-11.
(lb) - Max Horz 1=110(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-159(LC 12), 6=-158(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=262(LC 1), 8=346(LC 19), 6=346(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-365/307, 4-6=-365/307

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 5-7-14, Exterior(2) 5-7-14 to 10-0-11, Interior(1) 10-0-11 to 10-9-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=159, 6=158.
6) N/A


November 22,2023



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Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Lot 1 Barbecue Church Rd. |
|---|---|---|---|---|---|
| J1123-6542 | V7 | VALLEY | 1 | 1 | I62158883 |
| | | | | | Job Reference (optional) |

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Nov 21 14:54:40 2023 Page 1
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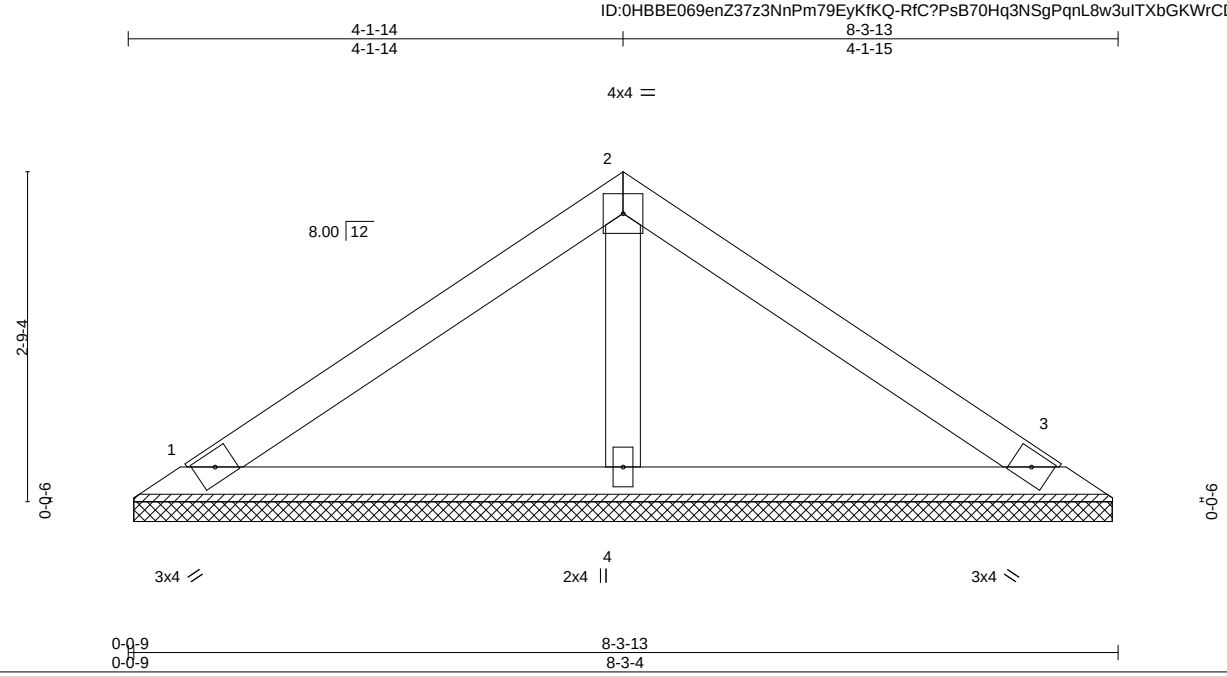


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.21 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.10 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-P | | | | | | | Weight: 29 lb | FT = 20% |

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

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

**REACTIONS.** (size) 1=8-2-11, 3=8-2-11, 4=8-2-11
Max Horz 1=-78(LC 8)
Max Uplift 1=-48(LC 12), 3=-55(LC 13), 4=-4(LC 12)
Max Grav 1=159(LC 1), 3=162(LC 20), 4=268(LC 1)

**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 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
6) N/A


November 22,2023



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818 Soundside Road
Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Lot 1 Barbecue Church Rd. |
|---|---|---|---|---|---|
| J1123-6542 | V8 | VALLEY | 1 | 1 | I62158884 |
| | | | | | Job Reference (optional) |

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Nov 21 14:54:41 2023 Page 1
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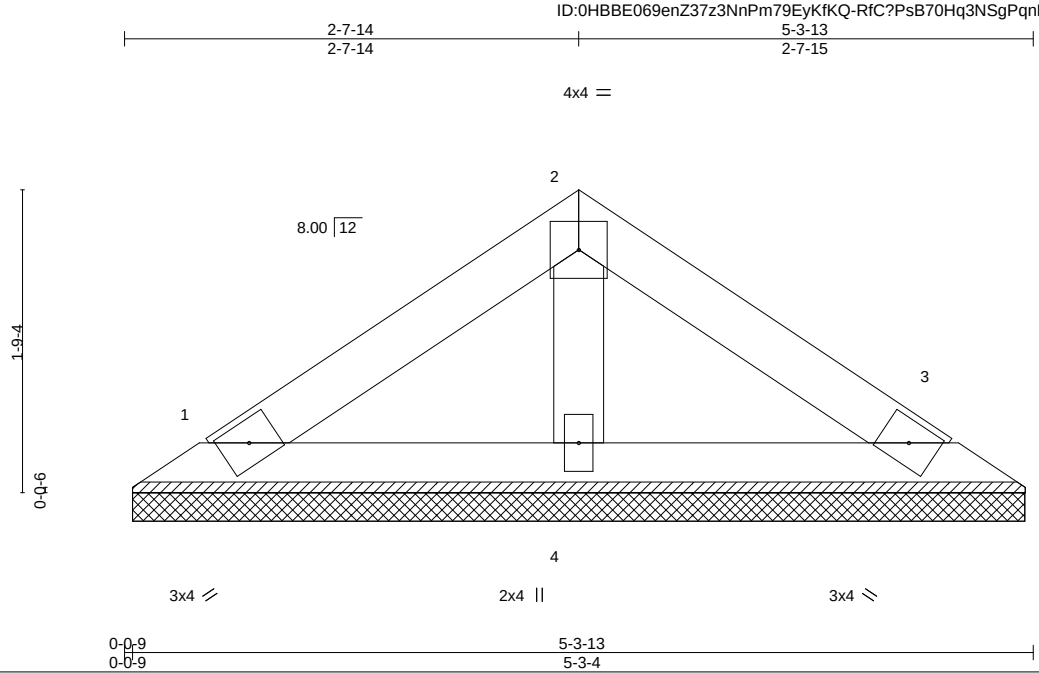


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.07 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.01 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-P | | | | | | | Weight: 17 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-3-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=5-2-11, 3=5-2-11, 4=5-2-11
Max Horz 1=-46(LC 8)
Max Uplift 1=-28(LC 12), 3=-33(LC 13), 4=-3(LC 12)
Max Grav 1=94(LC 1), 3=96(LC 20), 4=158(LC 1)

**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 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
6) N/A


November 22,2023



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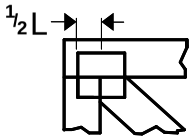
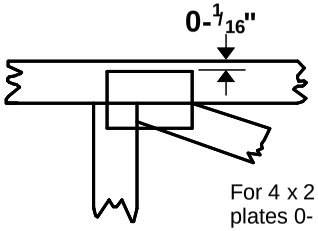
Edenton, NC 27932

# Symbols

## PLATE LOCATION AND ORIENTATION




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




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

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

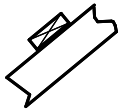
* Plate location details available in MiTek software or upon request.

## PLATE SIZE

4 x 4

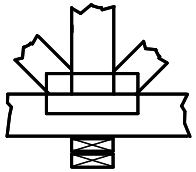
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING

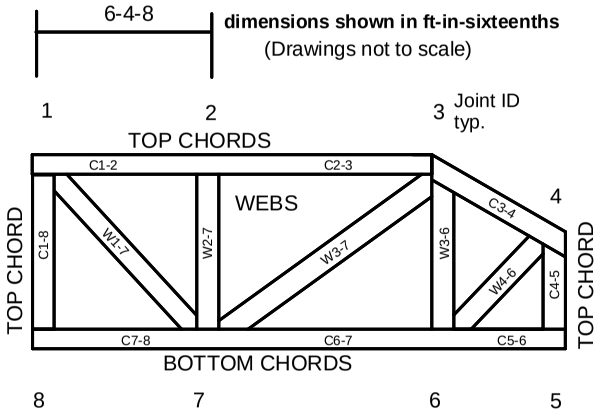


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

**Industry Standards:**

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System




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

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

# Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

# Design General Notes

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

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



MiTek®

ENGINEERING BY TRENCO
A MiTek Affiliate

MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

# General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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