

| Products | | | | |
|----------|--------|-----------------------------|-------|---------|
| PlotID | Length | Product | Plies | Net Qty |
| BM1 | 20' 0" | 1-3/4"x 23-7/8" LVL Kerto-S | 2 | 2 |
| GDH | 20' 0" | 1-3/4"x 11-7/8" LVL Kerto-S | 2 | 2 |

Roof Area = 2147.83 sq.ft.
 Ridge Line = 47.48 ft.
 Hip Line = 66.22 ft.
 Horiz. OH = 203.21 ft.
 Raked OH = 82.28 ft.
 Decking = 74 sheets

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

All Walls Shown Are Considered Load Bearing

Dimension Notes
 1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
 2. All interior wall dimensions are to face of frame wall unless noted otherwise
 3. All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

| Hatch Legend | |
|--------------|-----------------|
| | Box Storage |
| | 2nd Floor Walls |
| | Flush Beam |
| | Drop Beam |

| Connector Information | | | | | Nail Information | |
|-----------------------|---------|-------|-----|------------------|------------------|------------|
| Sym | Product | Manuf | Qty | Supported Member | Header | Truss |
| | HUS26 | USP | 16 | NA | 16d/3-1/2" | 16d/3-1/2" |
| | THD26-2 | USP | 1 | NA | 16d/3-1/2" | 10d/3" |

= Indicates Left End of Truss
 (Reference Engineered Truss Drawing)
 Do NOT Erect Truss Backwards

LOAD CHART FOR JACK STUDS
 (BASED ON TABLES B502.5(1) & (2))
 NUMBER OF JACK STUDS REQUIRED @ EA END OF HEAD/SUPPORT

| END REACTION (UP TO) @ END OF HEAD/SUPPORT | END REACTION (UP TO) @ END OF HEAD/SUPPORT | END REACTION (UP TO) @ END OF HEAD/SUPPORT |
|--|--|--|
| 1700 | 2550 | 3400 |
| 3400 | 5100 | 6800 |
| 5100 | 7650 | 10200 |
| 6800 | 10200 | 13600 |
| 8500 | 12750 | 17000 |
| 10200 | 15300 | |
| 11900 | | |
| 13600 | | |
| 15300 | | |

| | |
|------------------|--------------------------|
| BUILDER | Wellco Contractors, Inc. |
| JOB NAME | Lot 12 Overhills Creek |
| PLAN | Plan 13 / 2GRF |
| SEAL DATE | Seal Date |
| QUOTE # | Quote # |
| JOB # | J0424-2257 |

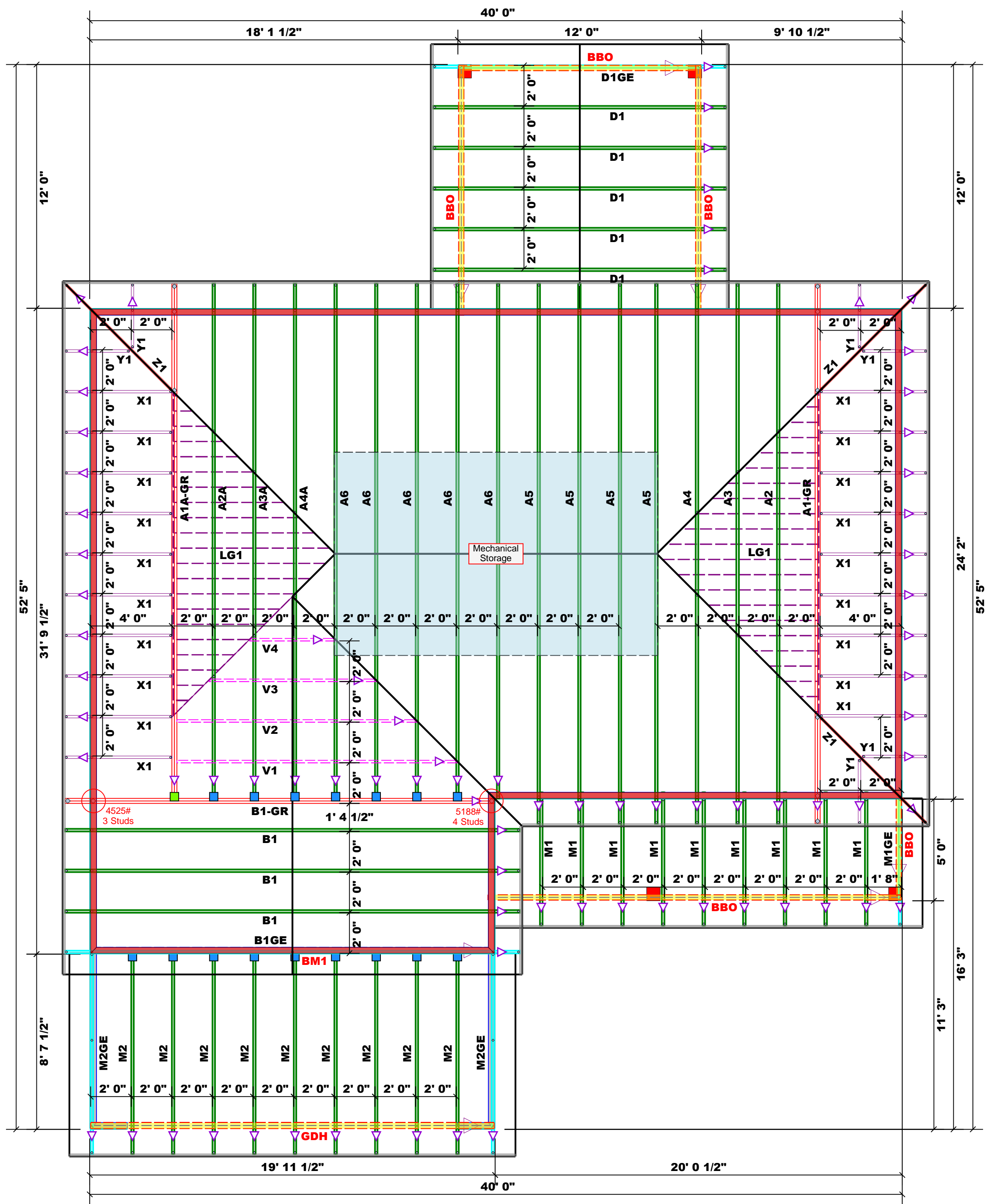
| | |
|-------------------|-----------------------|
| CITY / CO. | Spring Lake / Harnett |
| ADDRESS | 87 Onslow Court |
| MODEL | Roof |
| DATE REV. | 04/18/24 |
| DRAWN BY | David Landry |
| SALES REP. | Lenny Norris |

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
 These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSB-1 and BCSB-3 provided with the truss delivery package or online @ sbcindustry.com

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: David Landry
 David Landry

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



| Products | | | | |
|----------|--------|-----------------------------|-------|---------|
| PlotID | Length | Product | Plies | Net Qty |
| BM1 | 20' 0" | 1-3/4"x 23-7/8" LVL Kerto-S | 2 | 2 |
| GDH | 20' 0" | 1-3/4"x 11-7/8" LVL Kerto-S | 2 | 2 |

Roof Area = 2147.83 sq.ft.
 Ridge Line = 47.48 ft.
 Hip Line = 66.22 ft.
 Horiz. OH = 203.21 ft.
 Raked OH = 82.28 ft.
 Decking = 74 sheets

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

All Walls Shown Are Considered Load Bearing

- Dimension Notes
- All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
 - All interior wall dimensions are to face of frame wall unless noted otherwise
 - All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

| Hatch Legend | |
|--------------|-----------------|
| | Box Storage |
| | 2nd Floor Walls |
| | Flush Beam |
| | Drop Beam |

| Connector Information | | | | | Nail Information | |
|-----------------------|---------|-------|-----|------------------|------------------|------------|
| Sym | Product | Manuf | Qty | Supported Member | Header | Truss |
| | HUS26 | USP | 16 | NA | 16d/3-1/2" | 16d/3-1/2" |
| | THD26-2 | USP | 1 | NA | 16d/3-1/2" | 10d/3" |

= Indicates Left End of Truss
 (Reference Engineered Truss Drawing)
 Do NOT Erect Truss Backwards

LOAD CHART FOR JACK STUDS

(BASED ON TABLES B502.5(1) & (2))
 NUMBER OF JACK STUDS REQUIRED @ EA END OF HEAD/SUPPORT

| END REACTION (UP TO) 1000# | END REACTION (UP TO) 2000# | END REACTION (UP TO) 3400# |
|----------------------------|----------------------------|----------------------------|
| 1700 | 2550 | 3400 |
| 3400 | 5100 | 6800 |
| 5100 | 7650 | 10200 |
| 6800 | 10200 | 13600 |
| 8500 | 12750 | 17000 |
| 10200 | 15300 | |
| 11900 | | |
| 13600 | | |
| 15300 | | |

| | | | |
|------------------|--------------------------|-------------------|-----------------------|
| BUILDER | Wellco Contractors, Inc. | CITY / CO. | Spring Lake / Harnett |
| JOB NAME | Lot 12 Overhills Creek | ADDRESS | 87 Onslow Court |
| PLAN | Plan 13 / 2GRF | MODEL | Roof |
| SEAL DATE | Seal Date | DATE REV. | 04/18/24 |
| QUOTE # | Quote # | DRAWN BY | David Landry |
| JOB # | J0424-2257 | SALES REP. | Lenny Norris |

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
 These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSB-1 and BCSB-3 provided with the truss delivery package or online @ sbcindustry.com

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: David Landry
 David Landry

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

RE: J0424-2257
 Lot 12 Overhills Creek

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Customer: Project Name: J0424-2257
 Lot/Block: Model:
 Address: Subdivision:
 City: State:

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: 130 mph
 Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 27 individual, dated Truss Design Drawings and 1 Additional Drawings.

| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|-----|-----------|------------|-----------|-----|-----------|------------|-----------|
| 1 | I65027722 | A1-GR | 4/19/2024 | 21 | I65027742 | V1 | 4/19/2024 |
| 2 | I65027723 | A1A-GR | 4/19/2024 | 22 | I65027743 | V2 | 4/19/2024 |
| 3 | I65027724 | A2 | 4/19/2024 | 23 | I65027744 | V3 | 4/19/2024 |
| 4 | I65027725 | A2A | 4/19/2024 | 24 | I65027745 | V4 | 4/19/2024 |
| 5 | I65027726 | A3 | 4/19/2024 | 25 | I65027746 | X1 | 4/19/2024 |
| 6 | I65027727 | A3A | 4/19/2024 | 26 | I65027747 | Y1 | 4/19/2024 |
| 7 | I65027728 | A4 | 4/19/2024 | 27 | I65027748 | Z1 | 4/19/2024 |
| 8 | I65027729 | A4A | 4/19/2024 | | | | |
| 9 | I65027730 | A5 | 4/19/2024 | | | | |
| 10 | I65027731 | A6 | 4/19/2024 | | | | |
| 11 | I65027732 | B1 | 4/19/2024 | | | | |
| 12 | I65027733 | B1-GR | 4/19/2024 | | | | |
| 13 | I65027734 | B1GE | 4/19/2024 | | | | |
| 14 | I65027735 | D1 | 4/19/2024 | | | | |
| 15 | I65027736 | D1GE | 4/19/2024 | | | | |
| 16 | I65027737 | LG1 | 4/19/2024 | | | | |
| 17 | I65027738 | M1 | 4/19/2024 | | | | |
| 18 | I65027739 | M1GE | 4/19/2024 | | | | |
| 19 | I65027740 | M2 | 4/19/2024 | | | | |
| 20 | I65027741 | M2GE | 4/19/2024 | | | | |

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: Tony Miller

My license renewal date for the state of North Carolina is December 31, 2024.

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.



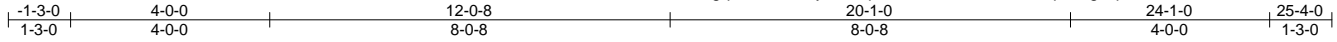
April 19, 2024

| | | | | | | |
|-------------------|----------------|--------------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss A1-GR | Truss Type HIP GIRDER | Qty 1 | Ply 2 | Lot 12 Overhills Creek Job Reference (optional) | 165027722 |
|-------------------|----------------|--------------------------|----------|----------|--|-----------|

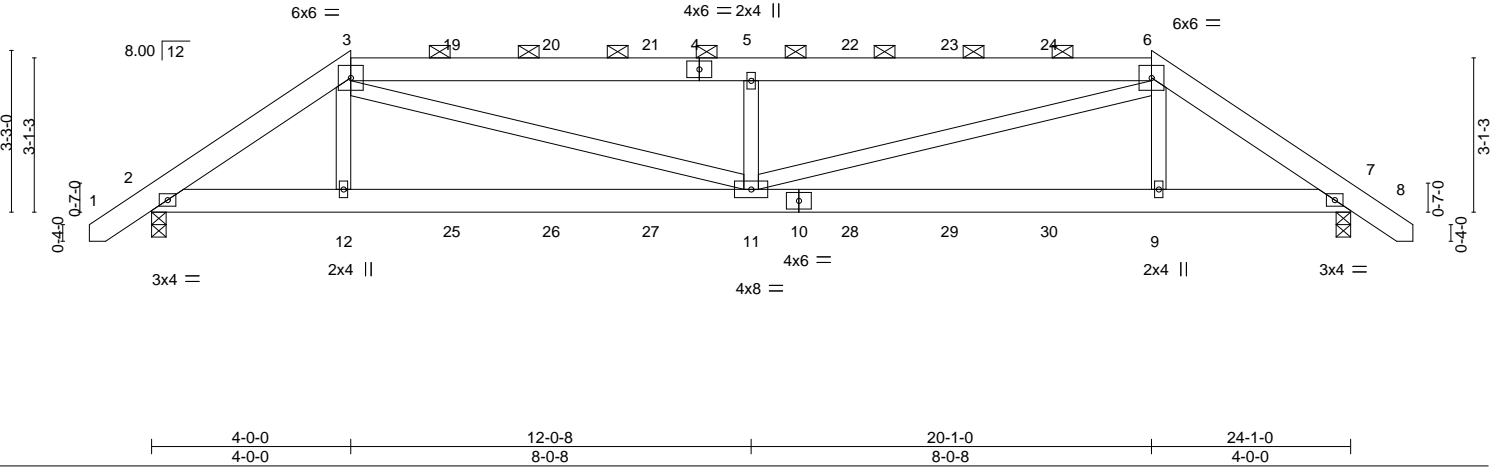
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:11 2024 Page 1

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Scale = 1:46.3



| 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 0.19 | Vert(LL) | -0.06 | 11 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.22 | Vert(CT) | -0.12 | 9-11 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.20 | Horz(CT) | 0.02 | 7 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-MS | Wind(LL) | 0.05 | 11 | >999 | | |
| | | | | | | | | Weight: 317 lb | FT = 25% |

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 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 7=0-3-8
 Max Horz 2=80(LC 26)
 Max Uplift 2=-186(LC 8), 7=-186(LC 9)
 Max Grav 2=1498(LC 1), 7=1497(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2437/323, 3-5=-3472/492, 5-6=-3472/492, 6-7=-2435/323
 BOT CHORD 2-12=-289/2012, 11-12=-293/1989, 9-11=-230/1987, 7-9=-226/2010
 WEBS 3-12=0/496, 3-11=-267/1597, 5-11=-665/323, 6-11=-269/1599, 6-9=0/496

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered 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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 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 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 186 lb uplift at joint 2 and 186 lb uplift at joint 7.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 77 lb down and 64 lb up at 4-0-0, 82 lb down and 60 lb up at 6-0-4, 82 lb down and 60 lb up at 8-0-4, 82 lb down and 60 lb up at 10-0-4, 82 lb down and 60 lb up at 12-0-4, 82 lb down and 60 lb up at 14-0-4, 82 lb down and 60 lb up at 16-0-4, and 82 lb down and 60 lb up at 18-0-4, and 77 lb down and 64 lb up at 20-1-0 on top chord, and 214 lb down and 63 lb up at 4-0-0, 48 lb down at 6-0-4, 48 lb down at 8-0-4, 48 lb down at 10-0-4, 48 lb down at 12-0-4, 48 lb down at 14-0-4, 48 lb down at 16-0-4, and 48 lb down at 18-0-4, and 214 lb down and 63 lb up at 20-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|-------------------|----------------|--------------------------|----------|-----------------|--|-----------|
| Job J0424-2257 | Truss A1-GR | Truss Type HIP GIRDER | Qty 1 | Ply 2 | Lot 12 Overhills Creek Job Reference (optional) | I65027722 |
|-------------------|----------------|--------------------------|----------|-----------------|--|-----------|

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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-6=-60, 6-8=-60, 13-16=-20

Concentrated Loads (lb)

Vert: 3=-25(B) 12=-214(B) 11=-41(B) 5=-25(B) 6=-25(B) 9=-214(B) 19=-25(B) 20=-25(B) 21=-25(B) 22=-25(B) 23=-25(B) 24=-25(B) 25=-41(B) 26=-41(B) 27=-41(B) 28=-41(B) 29=-41(B) 30=-41(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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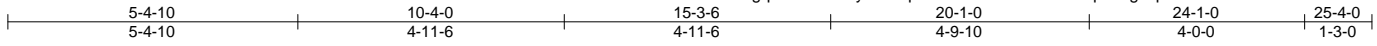
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|--------|-----------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 12 Overhills Creek | 165027723 |
| J0424-2257 | A1A-GR | HALF HIP GIRDER | 1 | 2 | Job Reference (optional) | |

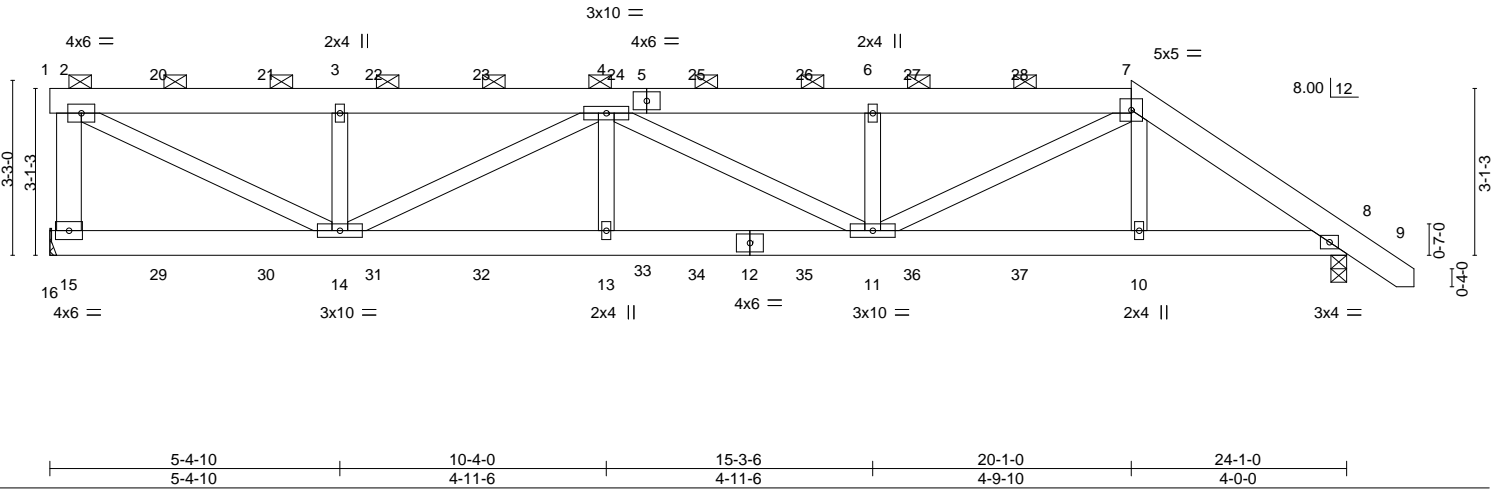
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Scale = 1:42.8



| 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) | -0.05 11-13 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.23 | Vert(CT) | -0.10 11-13 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.27 | Horz(CT) | 0.02 8 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-MS | Wind(LL) | 0.04 13 | >999 | 240 | | |
| | | | | | | | | Weight: 334 lb | FT = 25% |

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 2-15: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-7.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 15=Mechanical, 8=0-3-8
 Max Horz 15=103(LC 9)
 Max Uplift 15=196(LC 4), 8=182(LC 4)
 Max Grav 15=1365(LC 1), 8=1456(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-15=-1245/232, 2-3=-2085/295, 3-4=-2085/295, 4-6=-2963/438, 6-7=-2964/439, 7-8=-2269/330
 BOT CHORD 13-14=-398/3050, 11-13=-398/3050, 10-11=-225/1844, 8-10=-224/1861
 WEBS 2-14=-313/2224, 3-14=-344/180, 4-14=-1094/167, 4-13=0/295, 6-11=-379/185, 7-11=-196/1309, 7-10=0/345

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered 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 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 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 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 15 and 182 lb uplift at joint 8.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 82 lb down and 60 lb up at 2-0-4, 82 lb down and 60 lb up at 4-0-4, 82 lb down and 60 lb up at 6-0-4, 82 lb down and 60 lb up at 8-0-4, 82 lb down and 60 lb up at 10-0-4, 82 lb down and 60 lb up at 12-0-4, 82 lb down and 60 lb up at 14-0-4, 82 lb down and 60 lb up at 16-0-4, and 82 lb down and 60 lb up at 18-0-4, and 77 lb down and 64 lb up at 20-1-0 on top chord, and 48 lb down at 2-0-4, 48 lb down at 4-0-4, 48 lb down at 6-0-4, 48 lb down at 8-0-4, 48 lb down at 10-0-4, 48 lb down at 12-0-4, 48 lb down at 14-0-4, 48 lb down at 16-0-4, and 48 lb down at 18-0-4, and 214 lb down and 63 lb up at 20-0-4 on bottom chord. The design/selection of such connection



April 19, 2024

Continued on page 2

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818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|-------------------|-----------------|-------------------------------|----------|-----------------|--|-----------|
| Job J0424-2257 | Truss A1A-GR | Truss Type HALF HIP GIRDER | Qty 1 | Ply 2 | Lot 12 Overhills Creek Job Reference (optional) | I65027723 |
|-------------------|-----------------|-------------------------------|----------|-----------------|--|-----------|

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:10 2024 Page 2
ID:sDGgqS?97a5hnuyVu1sqZuzPsQT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-7=-60, 7-9=-60, 16-17=-20

Concentrated Loads (lb)

Vert: 7=-25(F) 10=-214(F) 20=-25(F) 21=-25(F) 22=-25(F) 23=-25(F) 24=-25(F) 25=-25(F) 26=-25(F) 27=-25(F) 28=-25(F) 29=-41(F) 30=-41(F) 31=-41(F) 32=-41(F) 33=-41(F) 34=-41(F) 35=-41(F) 36=-41(F) 37=-41(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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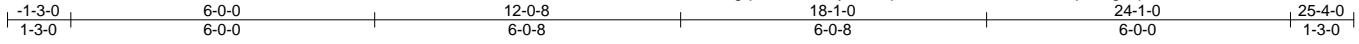
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|-------------------|-------------|-------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss A2 | Truss Type HIP | Qty 1 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | 165027724 |
|-------------------|-------------|-------------------|----------|----------|--|-----------|

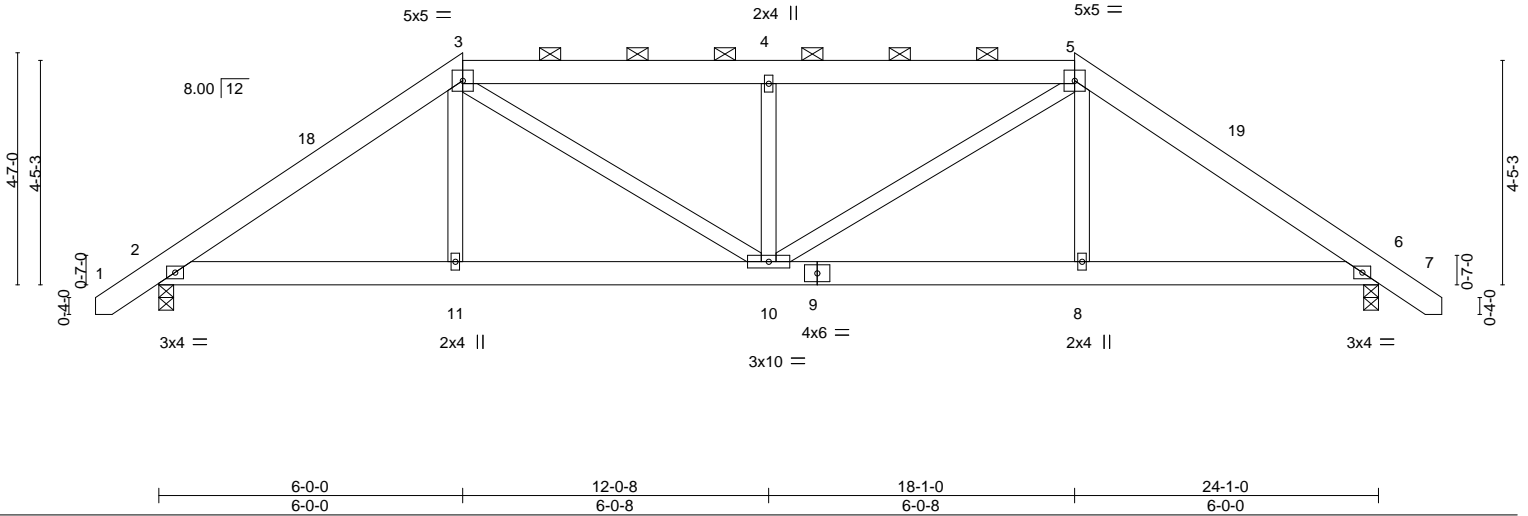
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8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:12 2024 Page 1

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Scale = 1:45.5



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|-----------|----------|----------|--------|------|----------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.14 | Vert(LL) | -0.03 | 10 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.17 | Vert(CT) | -0.07 | 10 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.13 | Horz(CT) | 0.02 | 6 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-AS | Wind(LL) | 0.02 | 10 | >999 | Weight: 162 lb | FT = 25% |

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, except
 2-0-0 oc purlins (6-0-0 max.): 3-5.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=-111(LC 10)
 Max Uplift 2=-34(LC 12), 6=-34(LC 13)
 Max Grav 2=1029(LC 1), 6=1029(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1429/357, 3-4=-1501/440, 4-5=-1501/440, 5-6=-1429/357
 BOT CHORD 2-11=-158/1130, 10-11=-160/1124, 8-10=-165/1124, 6-8=-163/1130
 WEBS 3-11=0/251, 3-10=-116/526, 4-10=-398/199, 5-10=-117/526, 5-8=0/251

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-1 to 3-3-12, Interior(1) 3-3-12 to 6-0-0, Exterior(2) 6-0-0 to 12-0-8, Interior(1) 12-0-8 to 18-1-0, Exterior(2) 18-1-0 to 24-1-0, Interior(1) 24-1-0 to 25-2-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 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.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 2 and 34 lb uplift at joint 6.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 19, 2024

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|-------------------|--------------|-------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss A2A | Truss Type HIP | Qty 1 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | 165027725 |
|-------------------|--------------|-------------------|----------|----------|--|-----------|

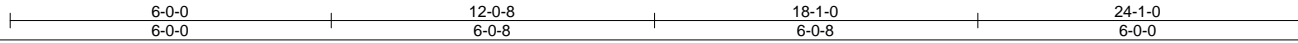
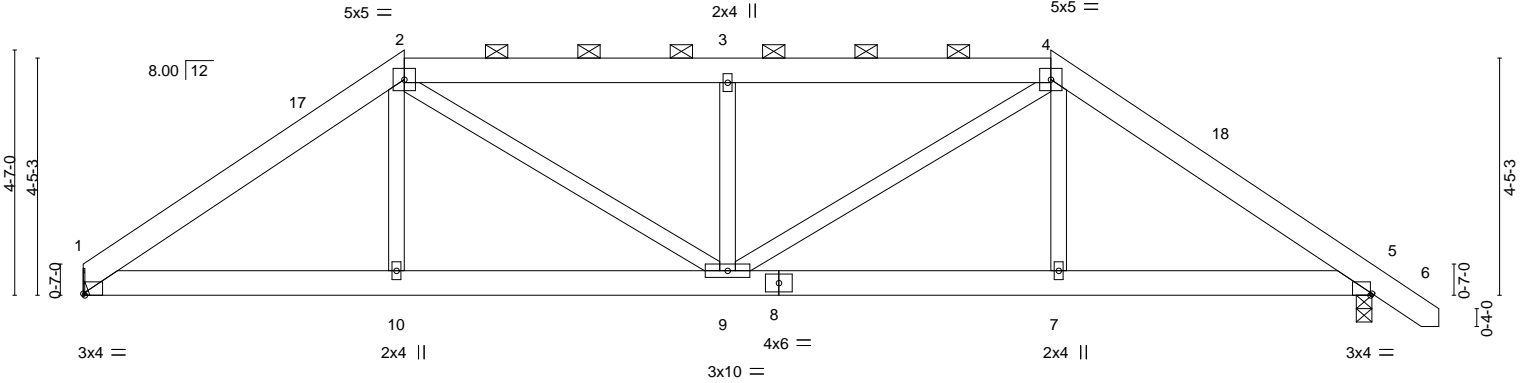
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:13 2024 Page 1

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Scale = 1:43.1



| | | | | | |
|-----------------------|--------------------------------|-------------|----------------------------------|----------------|-------------|
| Plate Offsets (X,Y)-- | [1:0-0-6,Edge], [5:0-0-5,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 0.14 | Vert(LL) -0.03 9 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.18 | Vert(CT) -0.07 9 >999 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.13 | Horz(CT) 0.02 5 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-AS | Wind(LL) 0.02 9 >999 240 | Weight: 159 lb | FT = 25% |

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

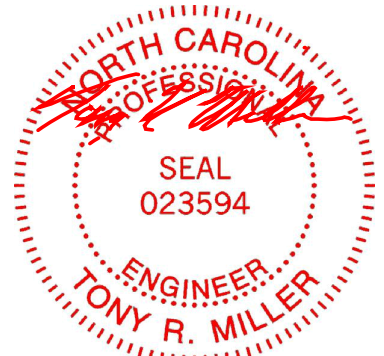
BRACING-
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (6-0-0 max.): 2-4.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 1=Mechanical, 5=0-3-8
 Max Horz 1=-106(LC 10)
 Max Uplift 1=-19(LC 9), 5=-34(LC 13)
 Max Grav 1=962(LC 1), 5=1030(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1437/376, 2-3=-1505/451, 3-4=-1505/451, 4-5=-1431/358
 BOT CHORD 1-10=-179/1138, 9-10=-181/1133, 7-9=-170/1127, 5-7=-169/1132
 WEBS 2-10=0/252, 2-9=-115/524, 3-9=-398/198, 4-9=-117/528, 4-7=0/251

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 6-0-0, Exterior(2) 6-0-0 to 12-0-8, Interior(1) 12-0-8 to 18-1-0, Exterior(2) 18-1-0 to 24-1-0, Interior(1) 24-1-0 to 25-2-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 1 and 34 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 19, 2024

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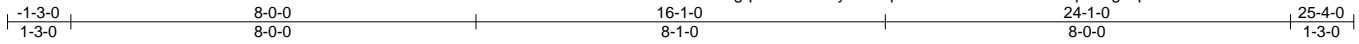
818 Soundside Road
 Edenton, NC 27932

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|-------------------|-------------|-------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss A3 | Truss Type HIP | Qty 1 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | 165027726 |
|-------------------|-------------|-------------------|----------|----------|--|-----------|

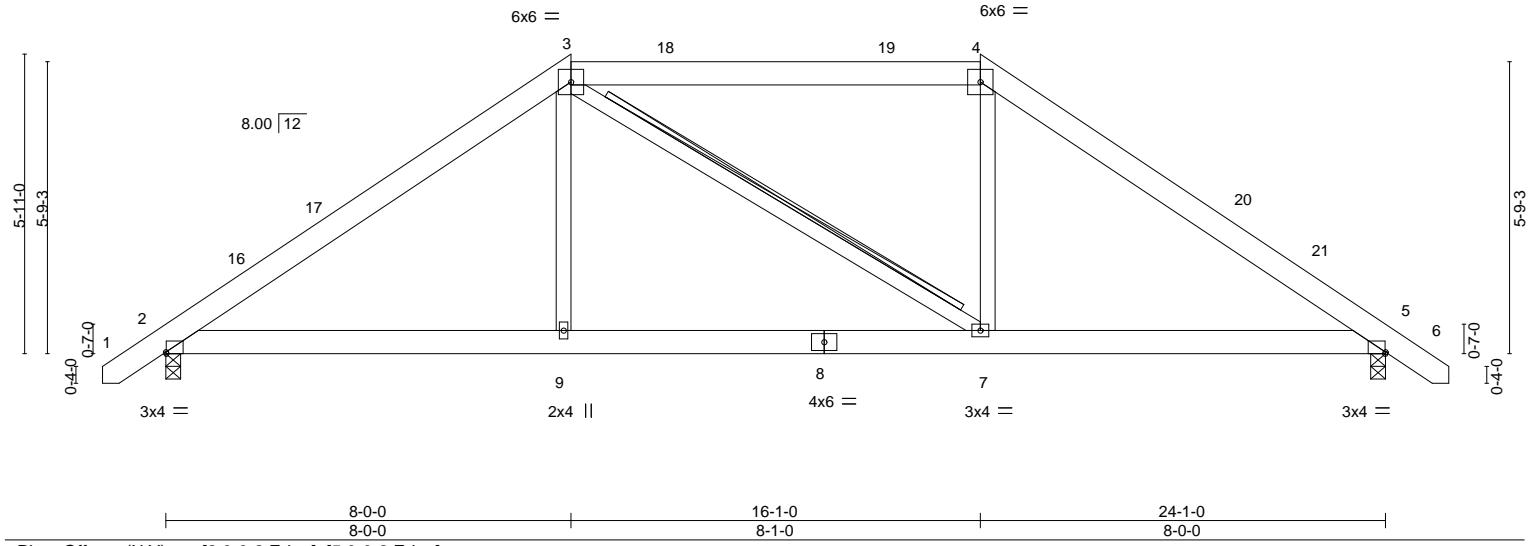
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8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:14 2024 Page 1

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Scale = 1:45.5



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|-----------|------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.24 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.24 | Vert(LL) -0.03 9-12 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.08 | Vert(CT) -0.06 9-12 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-AS | Horz(CT) 0.02 5 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.03 9-12 >999 240 | Weight: 157 lb | FT = 25% |

| LUMBER- | BRACING- |
|-----------------------|--|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 3-4. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied. |
| WEBS 2x4 SP No.2 | WEBS T-Brace: 2x4 SPF No.2 - 3-7 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. (size) 2=0-3-8, 5=0-3-8
 Max Horz 2=143(LC 11)
 Max Uplift 2=-47(LC 12), 5=-47(LC 13)
 Max Grav 2=1029(LC 1), 5=1029(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1345/337, 3-4=-1031/374, 4-5=-1346/337
 BOT CHORD 2-9=-114/1035, 7-9=-116/1030, 5-7=-126/1036
 WEBS 3-9=0/343, 4-7=0/343

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-1 to 3-3-12, Interior(1) 3-3-12 to 8-0-0, Exterior(2) 8-0-0 to 14-2-11, Interior(1) 14-2-11 to 16-1-0, Exterior(2) 16-1-0 to 22-3-11, Interior(1) 22-3-11 to 25-2-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 2 and 47 lb uplift at joint 5.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



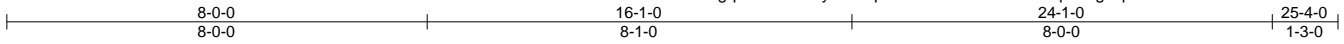
| | | | | | | |
|------------|-------|------------|-----|-----|------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 12 Overhills Creek | 165027727 |
| J0424-2257 | A3A | HIP | 1 | 1 | | |

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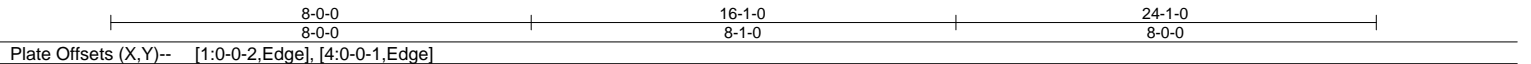
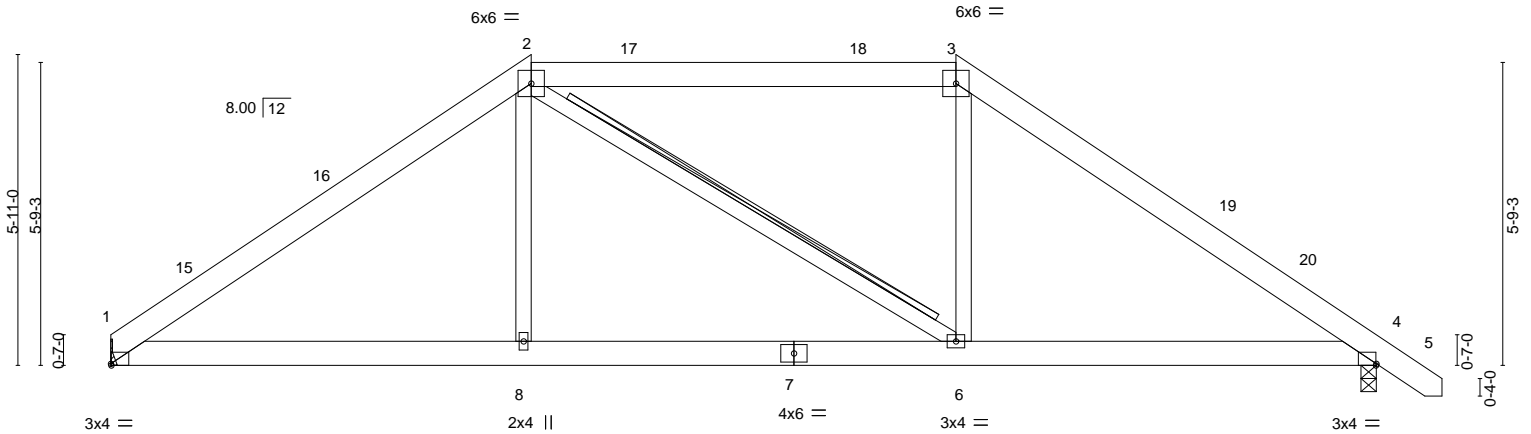
8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:14 2024 Page 1

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Job Reference (optional)



Scale = 1:43.8



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|-----------|------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.24 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.25 | Vert(LL) -0.03 8-11 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.08 | Vert(CT) -0.07 8-11 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-AS | Horz(CT) 0.02 4 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.03 8-11 >999 240 | Weight: 153 lb | FT = 25% |

| LUMBER- | BRACING- |
|-----------------------|--|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 2-3. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied. |
| WEBS 2x4 SP No.2 | WEBS T-Brace: 2x4 SPF No.2 - 2-6 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. (size) 1=Mechanical, 4=0-3-8
 Max Horz 1=-138(LC 10)
 Max Uplift 1=-32(LC 12), 4=-48(LC 13)
 Max Grav 1=962(LC 1), 4=1030(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1327/347, 2-3=-1032/379, 3-4=-1348/343
 BOT CHORD 1-8=-122/1041, 6-8=-124/1036, 4-6=-131/1038
 WEBS 2-8=0/344, 3-6=0/344

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 8-0-0, Exterior(2) 8-0-0 to 14-2-11, Interior(1) 14-2-11 to 16-1-0, Exterior(2) 16-1-0 to 22-3-11, Interior(1) 22-3-11 to 25-2-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 1 and 48 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



April 19, 2024

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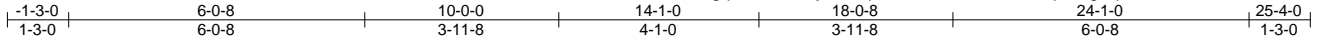
818 Soundside Road
Edenton, NC 27932

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|-------------------|-------------|-------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss A4 | Truss Type HIP | Qty 1 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | 165027728 |
|-------------------|-------------|-------------------|----------|----------|--|-----------|

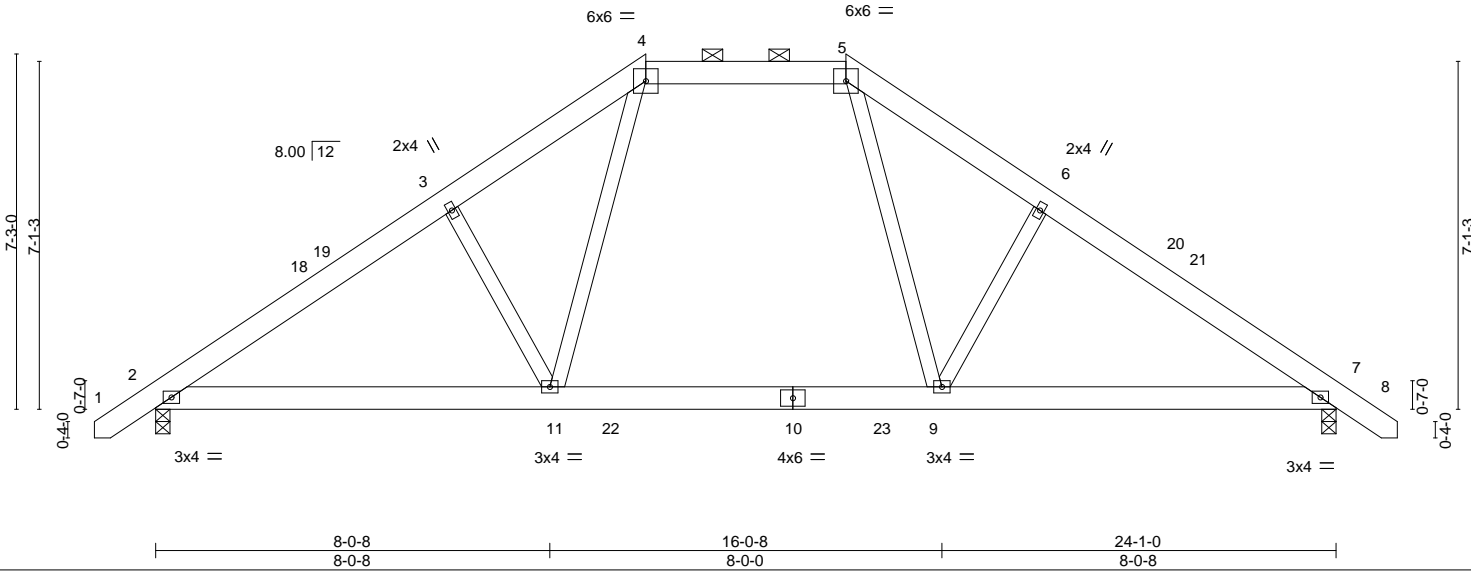
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8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:15 2024 Page 1

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Scale = 1:47.0



| 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) | -0.08 9-11 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.30 | Vert(CT) | -0.11 9-11 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.13 | Horz(CT) | 0.02 7 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-AS | Wind(LL) | 0.04 11-14 | >999 | 240 | | |
| | | | | | | | | Weight: 162 lb | FT = 25% |

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, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 7=0-3-8
 Max Horz 2=-175(LC 10)
 Max Uplift 2=-58(LC 12), 7=-58(LC 13)
 Max Grav 2=1055(LC 19), 7=1055(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1440/340, 3-4=-1313/382, 4-5=-913/333, 5-6=-1313/382, 6-7=-1440/340
 BOT CHORD 2-11=-155/1247, 9-11=-39/945, 7-9=-168/1140
 WEBS 3-11=-331/216, 4-11=-97/586, 5-9=-97/586, 6-9=-331/216

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-1 to 3-3-12, Interior(1) 3-3-12 to 10-0-0, Exterior(2) 10-0-0 to 20-3-11, Interior(1) 20-3-11 to 25-2-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 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 58 lb uplift at joint 2 and 58 lb uplift at joint 7.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

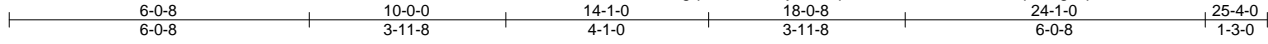


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|-------------------|--------------|-------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss A4A | Truss Type HIP | Qty 1 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | 165027729 |
|-------------------|--------------|-------------------|----------|----------|--|-----------|

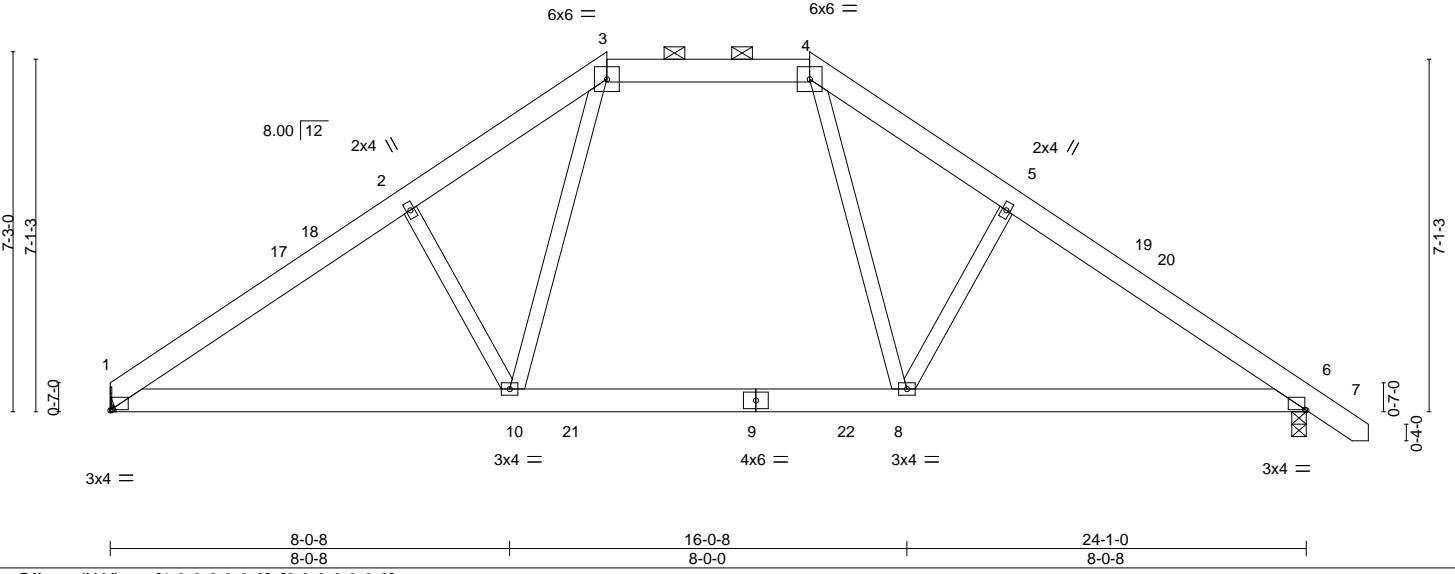
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:15 2024 Page 1

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Scale = 1:46.4



| | |
|------------------------|----------------------------------|
| Plate Offsets (X, Y)-- | [1:0-0-6,0-0-2], [6:0-0-6,0-0-2] |
|------------------------|----------------------------------|

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|-----------|----------|----------|--------|------|----------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.15 | Vert(LL) | -0.08 | 8-10 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.30 | Vert(CT) | -0.11 | 8-10 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.13 | Horz(CT) | 0.02 | 6 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-AS | Wind(LL) | 0.04 | 10-13 | >999 | | |
| | | | | | | | | Weight: 158 lb | FT = 25% |

| LUMBER- | BRACING- |
|-----------------------|--|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied, except |
| BOT CHORD 2x6 SP No.1 | 2-0-0 oc purlins (6-0-0 max.): 3-4. |
| WEBS 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied. |

REACTIONS. (size) 1=Mechanical, 6=0-3-8
 Max Horz 1=-170(LC 8)
 Max Uplift 1=-43(LC 12), 6=-59(LC 13)
 Max Grav 1=993(LC 19), 6=1056(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1431/350, 2-3=-1320/392, 3-4=-916/340, 4-5=-1315/391, 5-6=-1442/347
 BOT CHORD 1-10=-159/1254, 8-10=-46/948, 6-8=-174/1142
 WEBS 2-10=-329/219, 3-10=-101/593, 4-8=-95/586, 5-8=-330/214

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 10-0-0, Exterior(2) 10-0-0 to 20-3-11, Interior(1) 20-3-11 to 25-2-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 1 and 59 lb uplift at joint 6.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



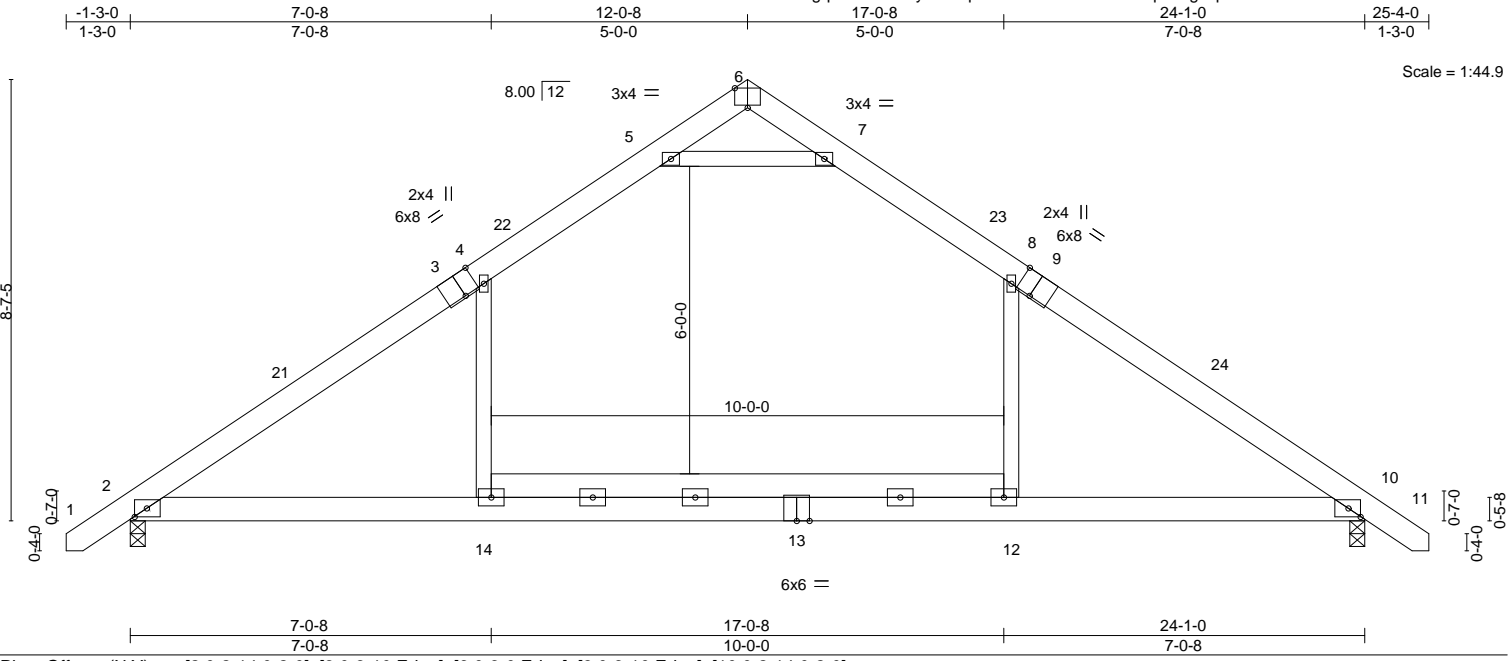
April 19, 2024

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|-------------------|-------------|----------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss A5 | Truss Type COMMON | Qty 4 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | 165027730 |
|-------------------|-------------|----------------------|----------|----------|--|-----------|

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| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|-----------|-------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.80 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.41 | Vert(LL) -0.25 12-14 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.43 | Vert(CT) -0.41 12-14 >699 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-AS | Horz(CT) 0.02 10 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.15 14-17 >999 240 | Weight: 173 lb | FT = 25% |

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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=210(LC 11)
Max Uplift 2=-66(LC 12), 10=-66(LC 13)
Max Grav 2=1189(LC 19), 10=1189(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1573/241, 4-5=-1103/311, 5-6=-155/877, 6-7=-155/878, 7-8=-1104/311, 8-10=-1574/241
BOT CHORD 2-14=-40/1191, 12-14=-44/1192, 10-12=-40/1191
WEBS 4-14=0/545, 8-12=0/546, 5-7=-2151/540

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-1 to 3-3-12, Interior(1) 3-3-12 to 12-0-8, Exterior(2) 12-0-8 to 16-5-5, Interior(1) 16-5-5 to 25-2-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 4x6 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 66 lb uplift at joint 2 and 66 lb uplift at joint 10.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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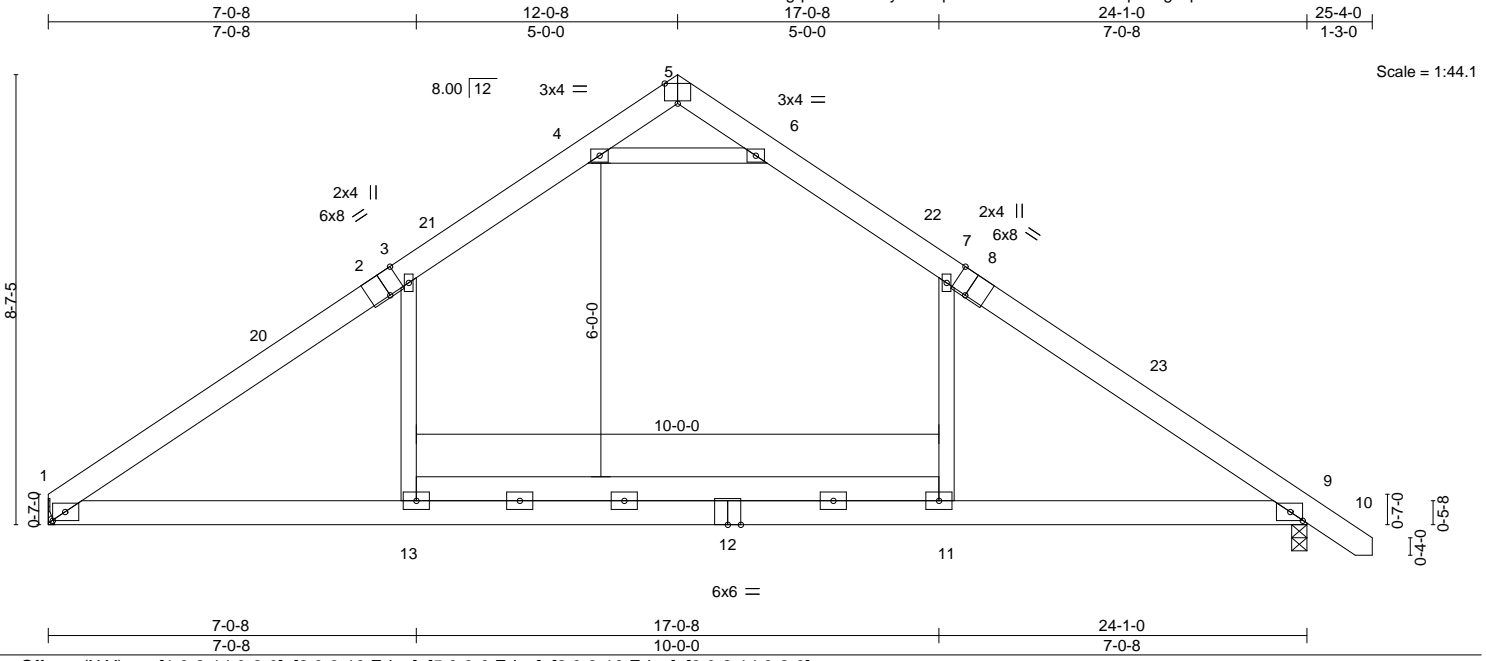
818 Soundside Road
Edenton, NC 27932

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|-------------------|-------------|----------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss A6 | Truss Type COMMON | Qty 5 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | I65027731 |
|-------------------|-------------|----------------------|----------|----------|--|-----------|

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| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|-----------|-------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.80 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.41 | Vert(LL) -0.25 11-13 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.44 | Vert(CT) -0.41 11-13 >698 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-AS | Horz(CT) 0.02 9 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.15 13-16 >999 240 | Weight: 170 lb | FT = 25% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied. |
| WEBS 2x4 SP No.2 | |

REACTIONS. (size) 1=Mechanical, 9=0-3-8
 Max Horz 1=-204(LC 8)
 Max Uplift 1=-51(LC 12), 9=-67(LC 13)
 Max Grav 1=1127(LC 19), 9=1190(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-1575/249, 3-4=-1105/318, 4-5=-157/882, 5-6=-166/880, 6-7=-1107/312, 7-9=-1579/244
 BOT CHORD 1-13=-49/1194, 11-13=-53/1195, 9-11=-49/1194
 WEBS 3-13=0/545, 7-11=0/546, 4-6=-2160/564

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 12-0-8, Exterior(2) 12-0-8 to 16-5-5, Interior(1) 16-5-5 to 25-2-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 4x6 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) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 1 and 67 lb uplift at joint 9.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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|-------------------|-------------|----------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss B1 | Truss Type COMMON | Qty 3 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | 165027732 |
|-------------------|-------------|----------------------|----------|----------|--|-----------|

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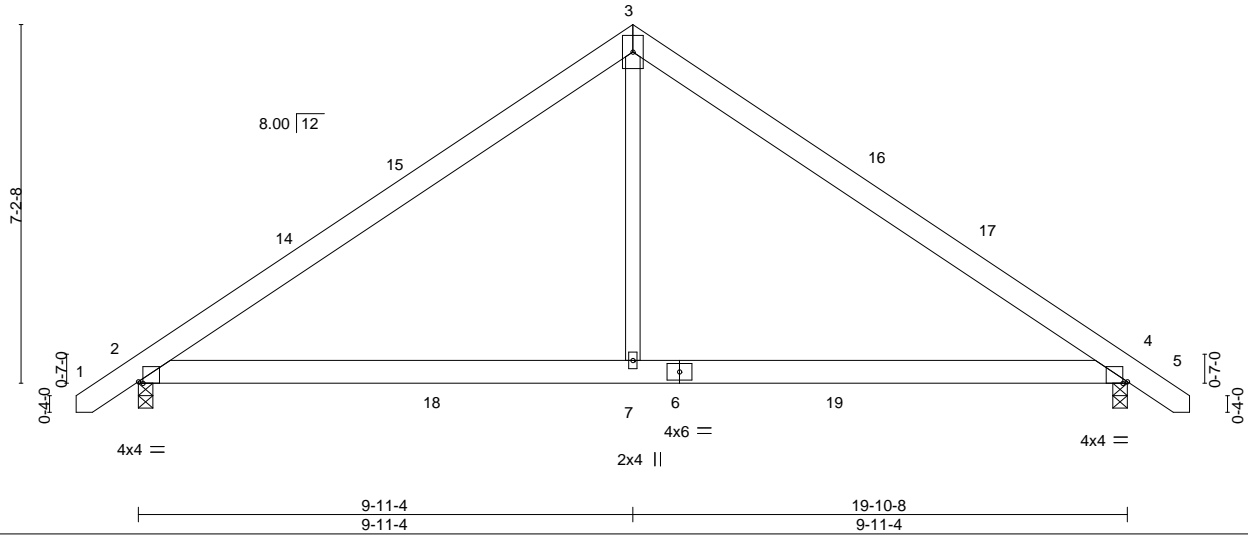
8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:17 2024 Page 1

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5x8 ||

Scale = 1:46.3



| | | | | | |
|------------------------|--------------------------------|-------------|----------------------------------|----------------|-------------|
| Plate Offsets (X, Y)-- | [2:0-1-2,Edge], [4:0-1-2,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 0.35 | Vert(LL) -0.07 7-10 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.45 | Vert(CT) -0.14 7-10 >999 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.15 | Horz(CT) 0.01 4 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-AS | Wind(LL) 0.06 7-13 >999 240 | Weight: 119 lb | FT = 25% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied. |
| WEBS 2x4 SP No.2 | |

REACTIONS. (size) 4=0-3-8, 2=0-3-8
 Max Horz 2=176(LC 11)
 Max Uplift 4=-58(LC 13), 2=-58(LC 12)
 Max Grav 4=983(LC 20), 2=983(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1167/230, 3-4=-1167/230
 BOT CHORD 2-7=0/938, 4-7=0/938
 WEBS 3-7=0/670

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-1 to 3-3-12, Interior(1) 3-3-12 to 9-11-4, Exterior(2) 9-11-4 to 14-4-1, Interior(1) 14-4-1 to 20-11-9 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 58 lb uplift at joint 4 and 58 lb uplift at joint 2.
 - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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|-------------------|----------------|-----------------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss B1-GR | Truss Type COMMON GIRDER | Qty 1 | Ply 2 | Lot 12 Overhills Creek Job Reference (optional) | 165027733 |
|-------------------|----------------|-----------------------------|----------|----------|--|-----------|

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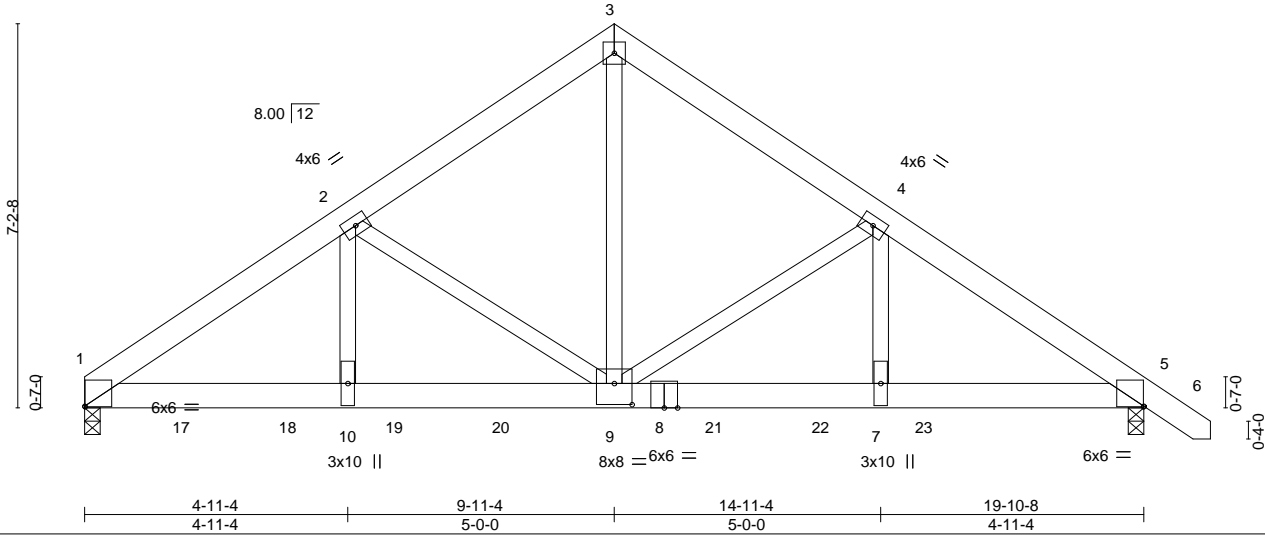
8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:18 2024 Page 1

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5x5 ||

Scale = 1:43.2



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

| 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 0.24 | Vert(LL) | -0.08 | 7-9 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.76 | Vert(CT) | -0.16 | 7-9 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.64 | Horz(CT) | 0.05 | 5 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-MS | Wind(LL) | 0.05 | 7-9 | >999 | | |
| | | | | | | | | Weight: 283 lb | FT = 25% |

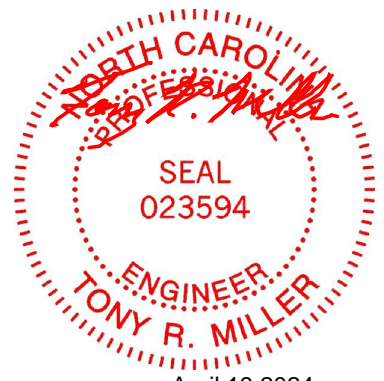
| LUMBER- | BRACING- |
|-----------------------|--|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 5-11-7 oc purlins. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.2 | |

REACTIONS. (size) 1=0-3-8, 5=0-3-8
 Max Horz 1=-171(LC 23)
 Max Uplift 1=-330(LC 8), 5=-358(LC 9)
 Max Grav 1=5068(LC 1), 5=4526(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-7459/503, 2-3=-5114/395, 3-4=-5101/396, 4-5=-7394/555
 BOT CHORD 1-10=-424/6190, 9-10=-424/6190, 7-9=-389/6067, 5-7=-389/6067
 WEBS 3-9=-340/5222, 4-9=-2242/316, 4-7=-167/2320, 2-9=-2391/265, 2-10=-106/2339

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - 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 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=330, 5=358.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 942 lb down and 71 lb up at 1-9-12, 942 lb down and 71 lb up at 3-9-12, 942 lb down and 71 lb up at 5-9-12, 942 lb down and 71 lb up at 7-9-12, 946 lb down and 63 lb up at 9-9-12, 942 lb down and 52 lb up at 11-9-12, and 942 lb down and 39 lb up at 13-9-12, and 1345 lb down and 216 lb up at 15-9-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-6=-60, 11-14=-20



Continued on page 2

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| <p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p> | <p>ENGINEERING BY TRENCO A MITEK Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p> |
|--|--|

| | | | | | | |
|-------------------|----------------|-----------------------------|----------|-----------------|--|-----------|
| Job J0424-2257 | Truss B1-GR | Truss Type COMMON GIRDER | Qty 1 | Ply 2 | Lot 12 Overhills Creek Job Reference (optional) | I65027733 |
|-------------------|----------------|-----------------------------|----------|-----------------|--|-----------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:18 2024 Page 2
ID:sDGgqS?97a5hnuyVu1sqZuzPsQT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 9=-942(B) 17=-942(B) 18=-942(B) 19=-942(B) 20=-942(B) 21=-942(B) 22=-942(B) 23=-1345(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



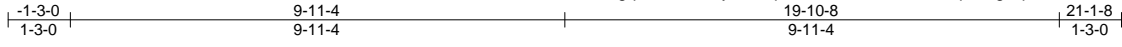
818 Soundside Road
Edenton, NC 27932

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|-------------------|---------------|---------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss B1GE | Truss Type GABLE | Qty 1 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | I65027734 |
|-------------------|---------------|---------------------|----------|----------|--|-----------|

Comtech, Inc. Fayetteville, NC - 28314,

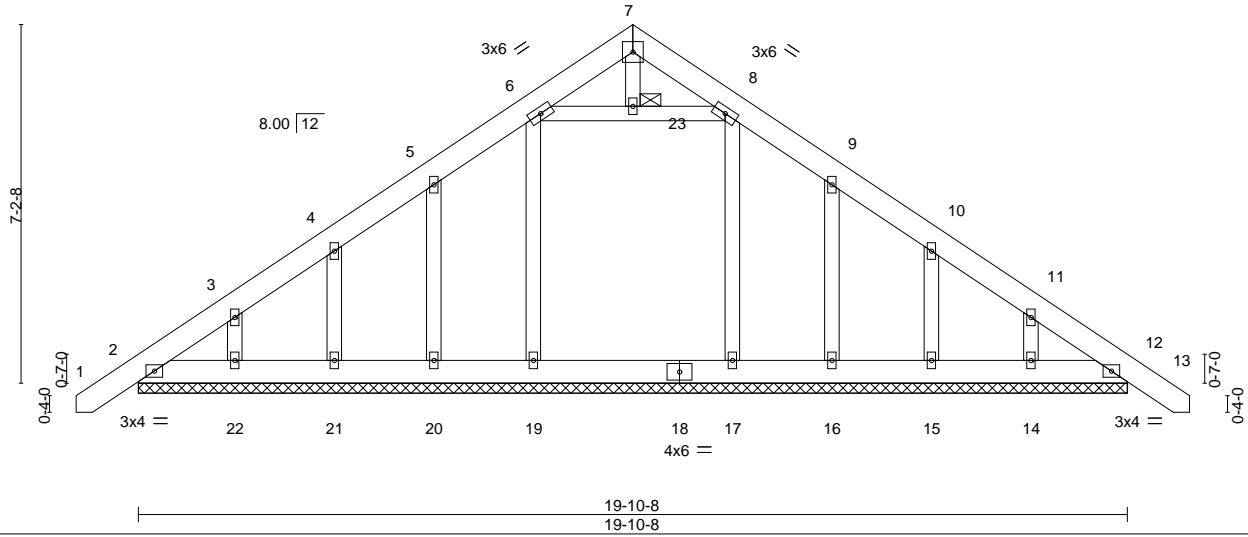
8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:18 2024 Page 1

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5x5 =

Scale = 1:46.3



| 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 0.03 | Vert(LL) | -0.00 | 12 | n/r | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.06 | Vert(CT) | -0.00 | 12 | n/r | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.08 | Horz(CT) | 0.00 | 12 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | Weight: 152 lb | FT = 25% |

LUMBER-
 TOP CHORD 2x6 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 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 23

REACTIONS. All bearings 19-10-8.
 (lb) - Max Horz 2=220(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 12, 2, 19, 20, 21, 22, 16, 15, 14
 Max Grav All reactions 250 lb or less at joint(s) 12, 2, 20, 21, 22, 16, 15, 14 except 19=368(LC 19), 17=334(LC 20)

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=130mph Vasd=103mph; TC DL=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, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 2, 19, 20, 21, 22, 16, 15, 14.



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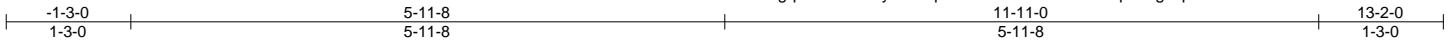
818 Soundside Road
 Edenton, NC 27932

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|-------------------|-------------|----------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss D1 | Truss Type COMMON | Qty 5 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | 165027735 |
|-------------------|-------------|----------------------|----------|----------|--|-----------|

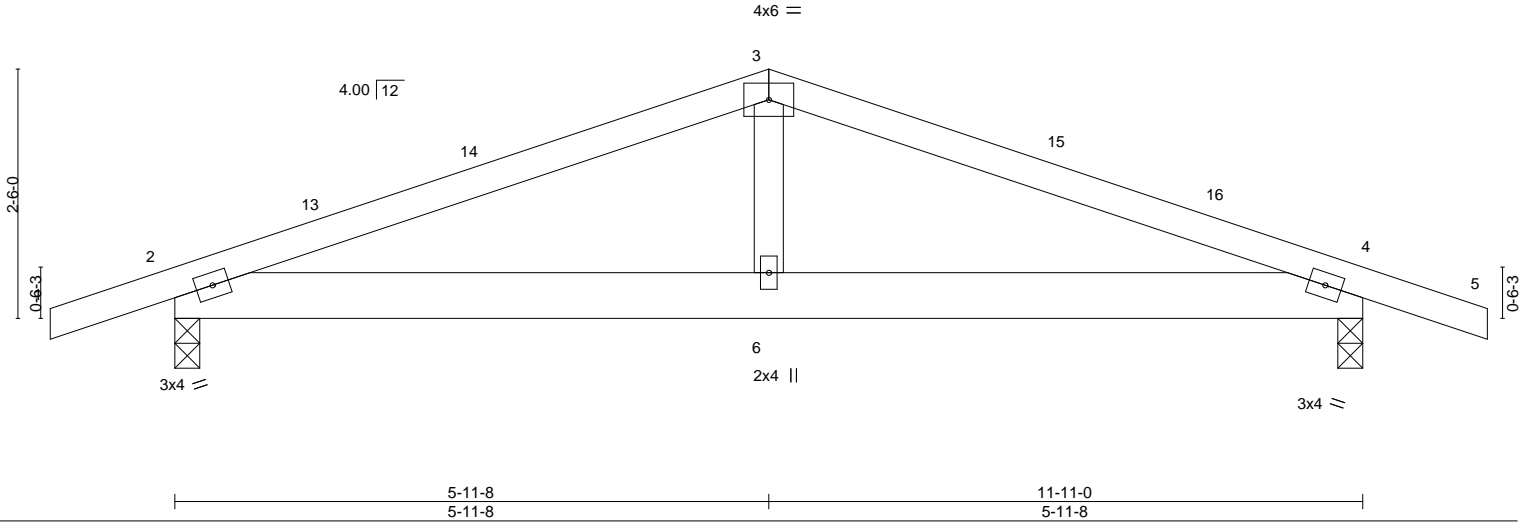
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:19 2024 Page 1

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Scale = 1:23.1



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|-----------|----------|-----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.21 | Vert(LL) | -0.02 6-9 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.17 | Vert(CT) | -0.03 6-9 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.06 | Horz(CT) | 0.01 4 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-AS | Wind(LL) | 0.04 6-12 | >999 | 240 | | |
| | | | | | | | | Weight: 53 lb | FT = 25% |

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-0, 4=0-3-0
 Max Horz 2=29(LC 8)
 Max Uplift 2=-217(LC 8), 4=-217(LC 9)
 Max Grav 2=552(LC 1), 4=552(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-831/908, 3-4=-831/908
 BOT CHORD 2-6=-773/742, 4-6=-773/742
 WEBS 3-6=-359/270

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-3-0 to 3-1-13, Interior(1) 3-1-13 to 5-11-8, Exterior(2) 5-11-8 to 10-4-5, Interior(1) 10-4-5 to 13-2-0 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) except (jt=lb) 2=217, 4=217.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 19, 2024

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818 Soundside Road
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|-------------------|---------------|---------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss D1GE | Truss Type GABLE | Qty 1 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | 165027736 |
|-------------------|---------------|---------------------|----------|----------|--|-----------|

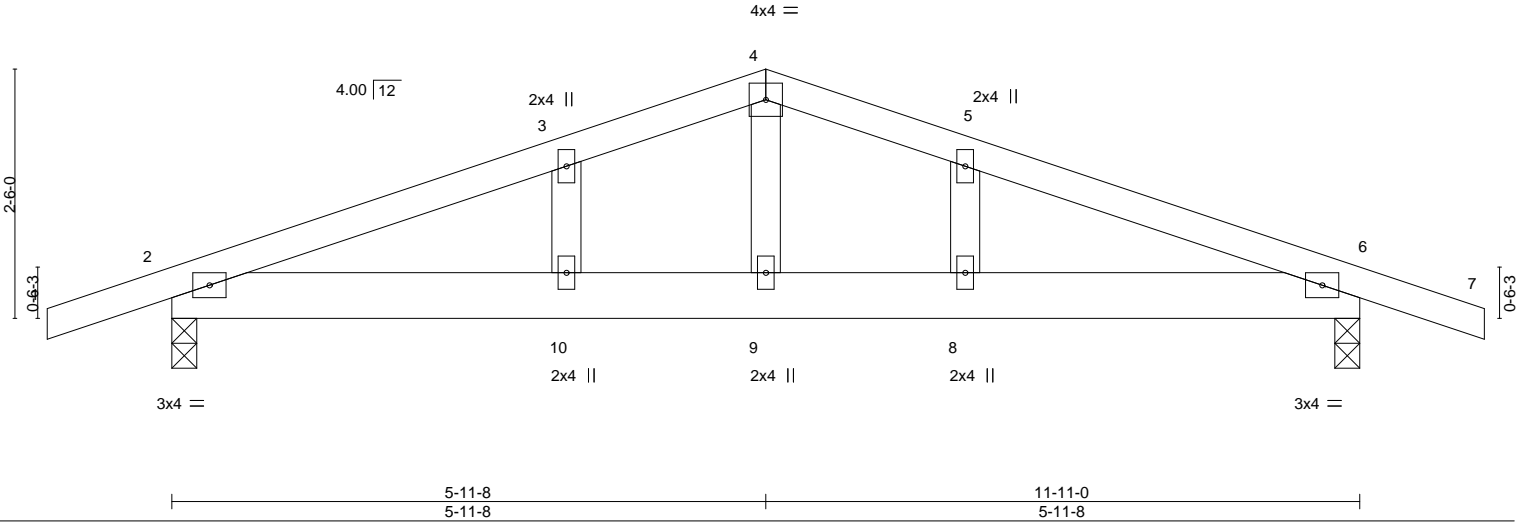
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:19 2024 Page 1

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Scale = 1:23.1



| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-----------|----------|----------|--------|------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.17 | Vert(LL) | 0.04 | 8 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.20 | Vert(CT) | -0.04 | 10-13 | >999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.08 | Horz(CT) | 0.01 | 6 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-AS | | | | | Weight: 57 lb | FT = 25% |
| | Code IRC2015/TPI2014 | | | | | | | |

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.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-0, 6=0-3-0
 Max Horz 2=49(LC 12)
 Max Uplift 2=-309(LC 8), 6=-309(LC 9)
 Max Grav 2=552(LC 1), 6=552(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-829/966, 3-4=-807/1003, 4-5=-807/1003, 5-6=-829/966
 BOT CHORD 2-10=-842/754, 9-10=-842/754, 8-9=-842/754, 6-8=-842/754
 WEBS 4-9=-478/340

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; 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 and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
 - 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 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=309, 6=309.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 19, 2024

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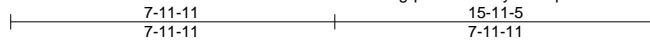
818 Soundside Road
 Edenton, NC 27932

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|-------------------|--------------|---------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss LG1 | Truss Type GABLE | Qty 2 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | 165027737 |
|-------------------|--------------|---------------------|----------|----------|--|-----------|

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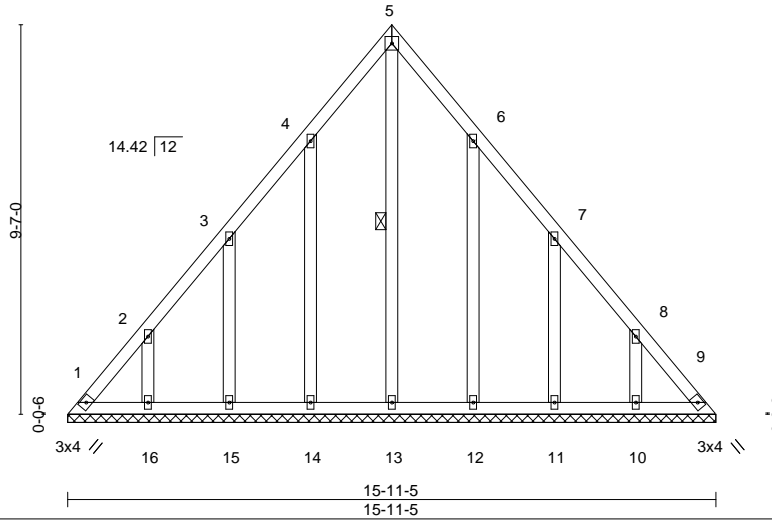
8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:20 2024 Page 1

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4x4 =

Scale = 1:56.7



| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|-----|----------------|-------------|
| 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 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.04 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.18 | Horz(CT) | 0.01 | 9 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 110 lb | FT = 25% |

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.
WEBS 1 Row at midpt 5-13

REACTIONS.

All bearings 15-11-5.
(lb) - Max Horz 1=291(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-151(LC 10), 9=-110(LC 11), 14=-182(LC 12), 15=-184(LC 12), 16=-183(LC 12), 12=-180(LC 13), 11=-185(LC 13), 10=-183(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 13, 14, 15, 16, 12, 11, 10 except 1=303(LC 12), 9=277(LC 13)

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

TOP CHORD 1-2=-413/265, 8-9=-379/265
BOT CHORD 1-16=-192/278, 15-16=-192/278, 14-15=-192/278, 13-14=-192/278, 12-13=-192/278, 11-12=-192/278, 10-11=-192/278, 9-10=-192/278

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; 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
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 1, 110 lb uplift at joint 9, 182 lb uplift at joint 14, 184 lb uplift at joint 15, 183 lb uplift at joint 16, 180 lb uplift at joint 12, 185 lb uplift at joint 11 and 183 lb uplift at joint 10.



April 19, 2024

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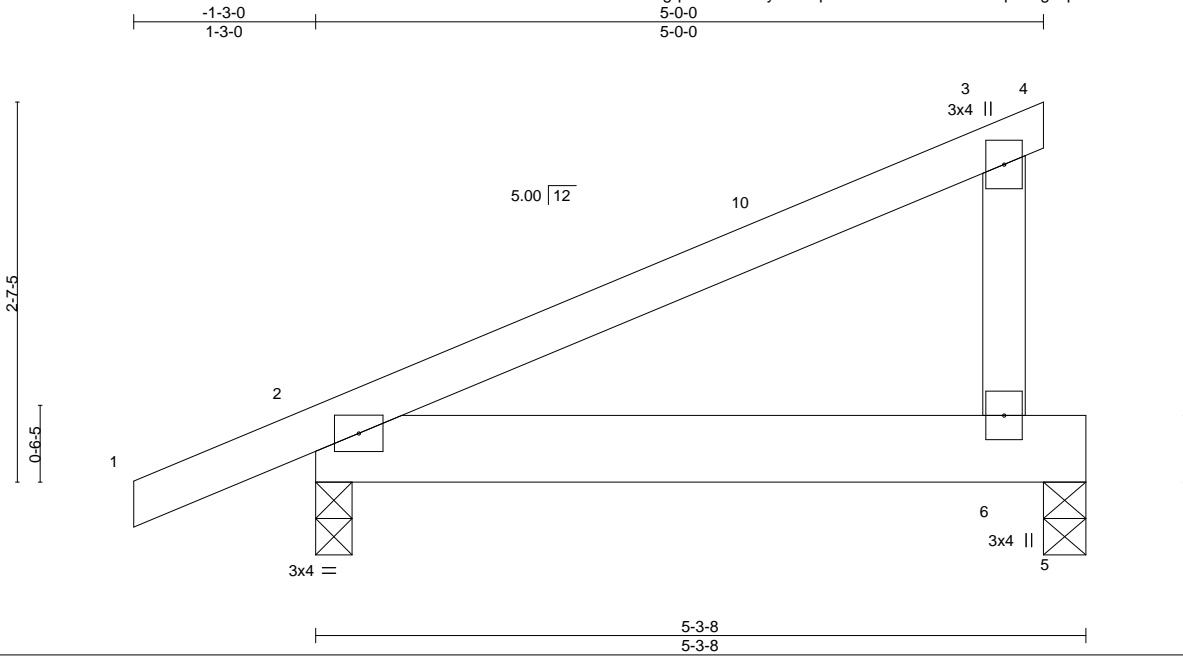
818 Soundside Road
Edenton, NC 27932

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|-------------------|-------------|------------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss M1 | Truss Type MONOPICH | Qty 9 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | I65027738 |
|-------------------|-------------|------------------------|----------|----------|--|-----------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:20 2024 Page 1

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Scale = 1:15.8

| 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 0.17 | Vert(LL) | -0.01 6-9 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.17 | Vert(CT) | -0.02 6-9 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.00 | Horz(CT) | -0.00 2 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-AS | Wind(LL) | 0.03 6-9 | >999 | 240 | Weight: 25 lb | FT = 25% |

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-0, 5=0-3-8
 Max Horz 2=81(LC 12)
 Max Uplift 2=84(LC 8), 5=60(LC 8)
 Max Grav 2=289(LC 1), 5=178(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-3-0 to 3-1-13, Interior(1) 3-1-13 to 5-0-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 2 and 60 lb uplift at joint 5.
- 5) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 19, 2024

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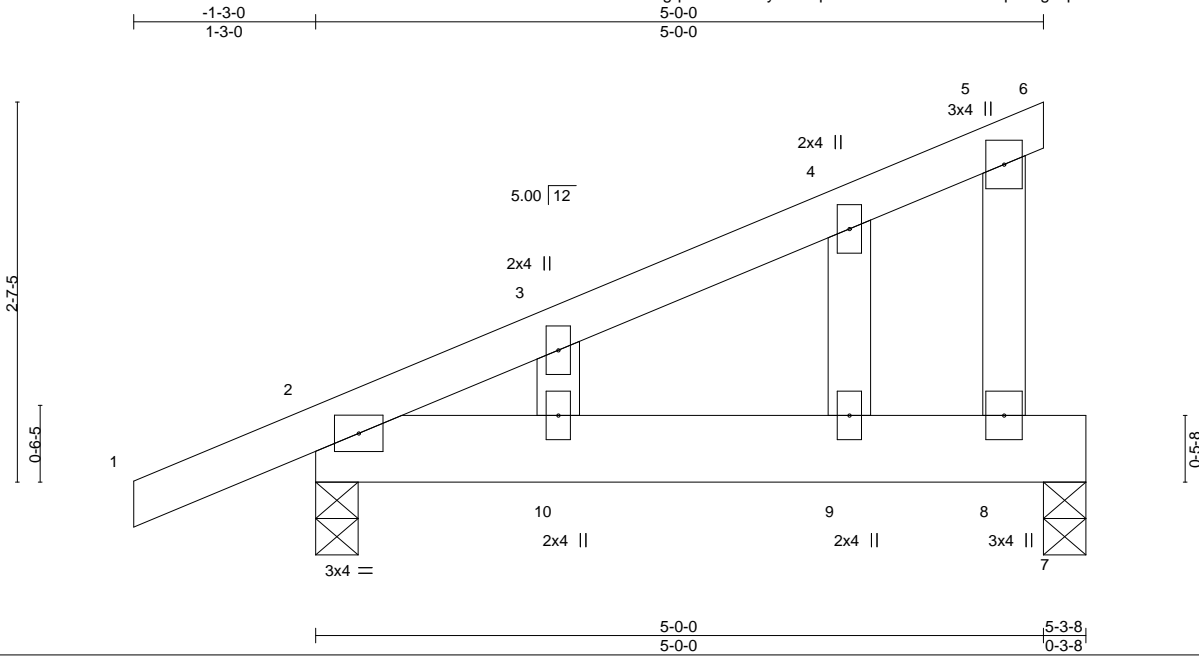
818 Soundside Road
 Edenton, NC 27932

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|-------------------|---------------|---------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss M1GE | Truss Type GABLE | Qty 1 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | I65027739 |
|-------------------|---------------|---------------------|----------|----------|--|-----------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:21 2024 Page 1

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Scale = 1:15.8

| 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 0.18 | Vert(LL) | 0.02 9-10 | >999 | 240 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.13 | Vert(CT) | -0.02 9-10 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.02 | Horz(CT) | -0.00 7 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | Weight: 28 lb | FT = 25% |

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

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=119(LC 12)
Max Uplift 2=-124(LC 8), 7=-84(LC 8)
Max Grav 2=295(LC 1), 7=169(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=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
- 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) Gable studs spaced at 2-0-0 oc.
- 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 2 and 84 lb uplift at joint 7.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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|-------------------|-------------|------------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss M2 | Truss Type MONOPICH | Qty 9 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | 165027740 |
|-------------------|-------------|------------------------|----------|----------|--|-----------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:21 2024 Page 1

ID:sDGgqS?97a5hnuyVu1sqZuzPsQT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f
8-7-8
8-7-8



Scale = 1:18.8

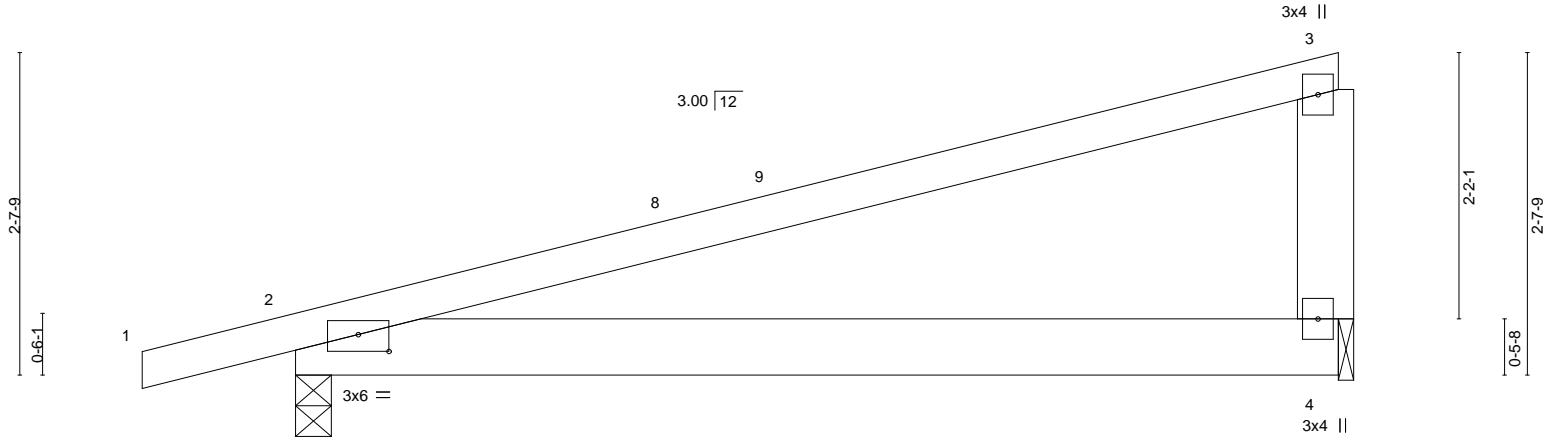


Plate Offsets (X,Y)-- [2:0-3-0,0-1-10]

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|-----------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.53 | Vert(LL) | -0.07 | 4-7 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.40 | Vert(CT) | -0.16 | 4-7 | >618 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.00 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-AS | Wind(LL) | 0.07 | 4-7 | >999 | 240 | | |
| | | | | | | | | | Weight: 39 lb | FT = 25% |

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 4=0-1-8
Max Horz 2=83(LC 8)
Max Uplift 2=-75(LC 8), 4=-44(LC 12)
Max Grav 2=416(LC 1), 4=330(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-3-0 to 3-1-13, Interior(1) 3-1-13 to 8-4-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 2 and 44 lb uplift at joint 4.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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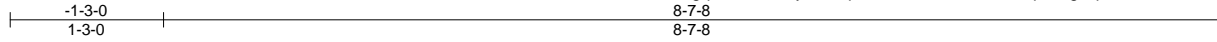
818 Soundside Road
Edenton, NC 27932

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|-------------------|---------------|---------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss M2GE | Truss Type GABLE | Qty 2 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | 165027741 |
|-------------------|---------------|---------------------|----------|----------|--|-----------|

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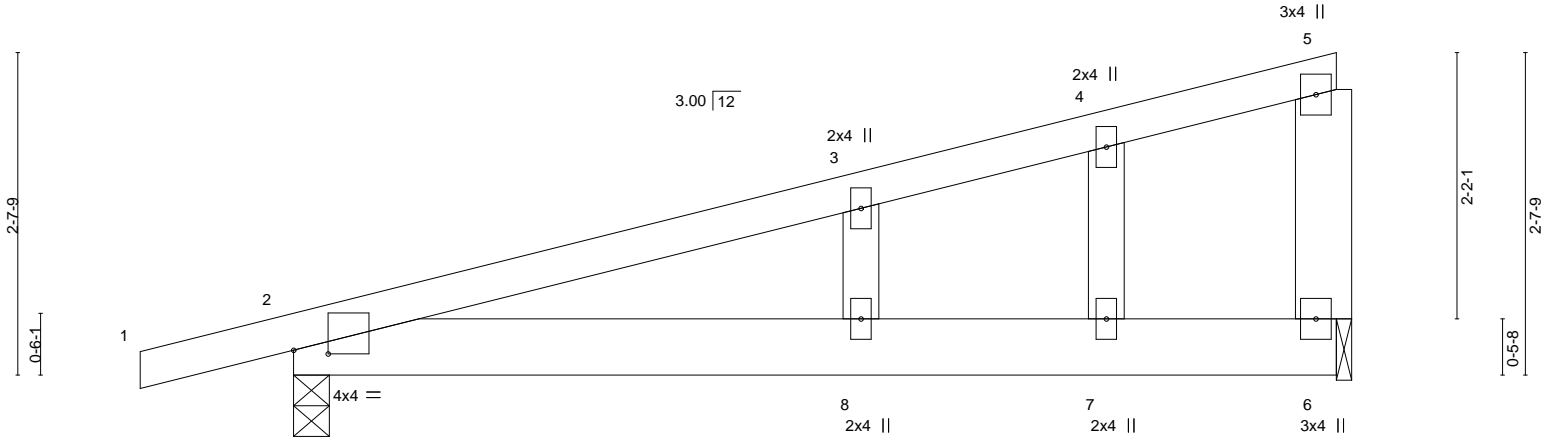


Plate Offsets (X,Y)-- [2:0-3-6,0-0-6]

| 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 0.28 | Vert(LL) | -0.10 | 8 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.47 | Vert(CT) | -0.20 | 8-11 | >497 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.02 | Horz(CT) | 0.01 | 2 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-AS | Wind(LL) | 0.13 | 8-11 | >790 | | |
| | | | | | | | | Weight: 43 lb | FT = 25% |

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 6=0-1-8
Max Horz 2=118(LC 8)
Max Uplift 2=-150(LC 8), 6=-107(LC 12)
Max Grav 2=416(LC 1), 6=330(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; 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
- 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) Gable studs spaced at 2-0-0 oc.
- 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.
- 6) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 2 and 107 lb uplift at joint 6.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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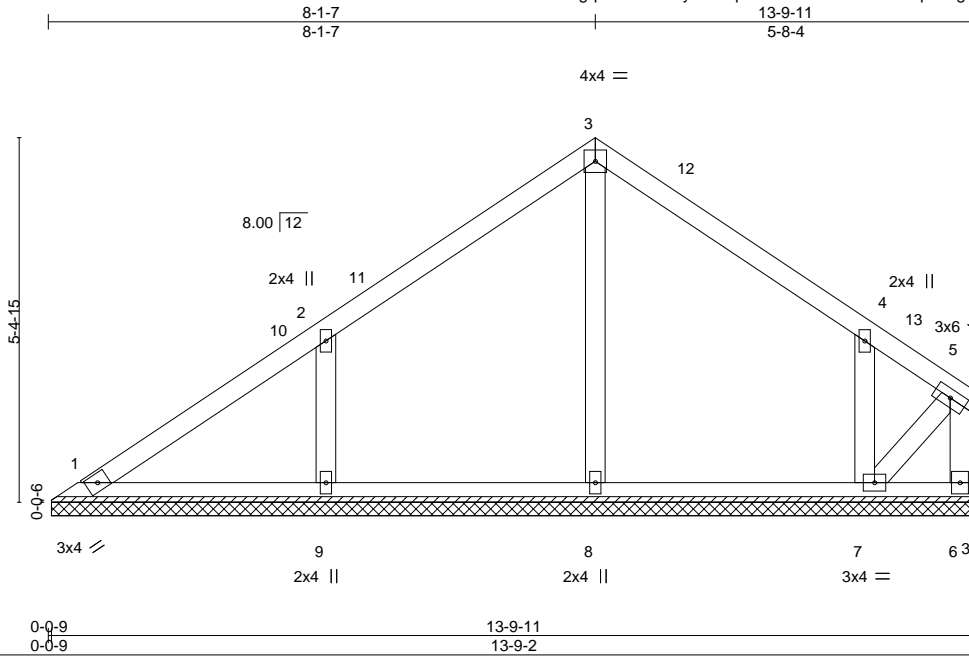
818 Soundside Road
Edenton, NC 27932

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|-------------------|-------------|----------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss V1 | Truss Type VALLEY | Qty 1 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | I65027742 |
|-------------------|-------------|----------------------|----------|----------|--|-----------|

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Scale = 1:34.2

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.16 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.09 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.08 | Horz(CT) | 0.00 | 6 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | | | | | Weight: 63 lb | FT = 25% |
| | Code IRC2015/TPI2014 | | | | | | | |

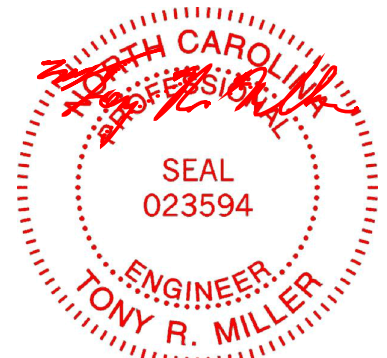
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 6-7.

REACTIONS. All bearings 13-9-2.
 (lb) - Max Horz 1=120(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 6 except 9=109(LC 12), 7=129(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 8=256(LC 1), 9=385(LC 19), 7=314(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-9=-326/216, 4-7=-280/202

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=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 8-1-7, Exterior(2) 8-1-7 to 12-6-4, Interior(1) 12-6-4 to 13-6-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 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.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 9=109, 7=129.



April 19, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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|-------------------|-------------|----------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss V2 | Truss Type VALLEY | Qty 1 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | 165027743 |
|-------------------|-------------|----------------------|----------|----------|--|-----------|

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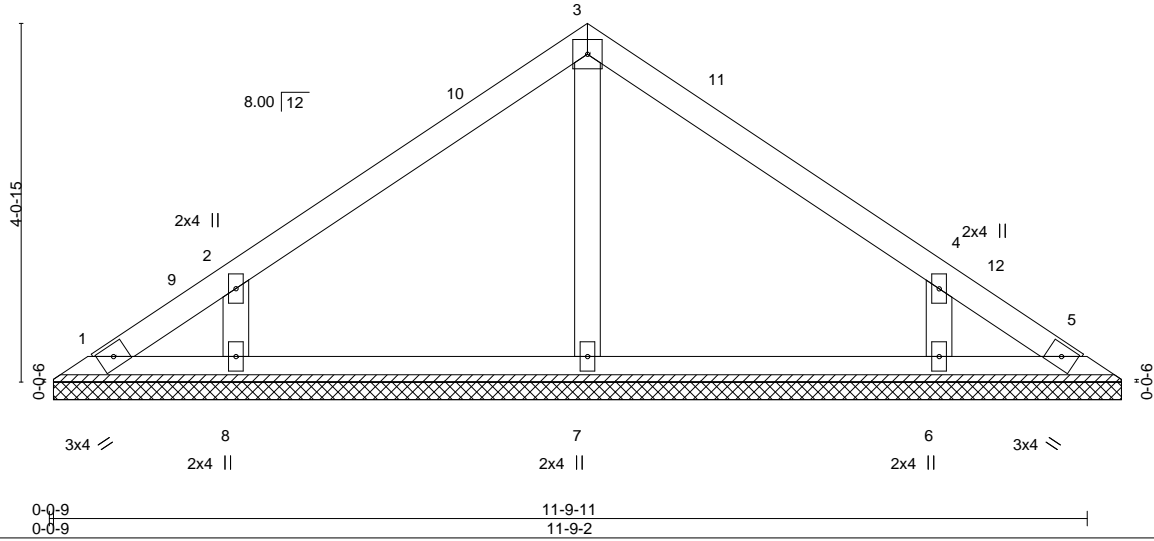
8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:22 2024 Page 1

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4x4 =

Scale = 1:26.2



| | | | | | |
|------------------------|-----------------------|-------------|----------------------------------|---------------|-------------|
| 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 0.05 | Horz(CT) 0.00 5 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | Weight: 46 lb | FT = 25% |

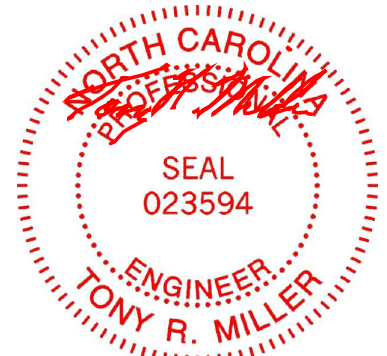
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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 12-1-13.
(lb) - Max Horz 1=90(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=264(LC 1), 8=314(LC 19), 6=313(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-279/203, 4-6=-279/203

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=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 6-1-7, Exterior(2) 6-1-7 to 10-6-4, Interior(1) 10-6-4 to 11-9-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.



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|-------------------|-------------|----------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss V3 | Truss Type VALLEY | Qty 1 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | I65027744 |
|-------------------|-------------|----------------------|----------|----------|--|-----------|

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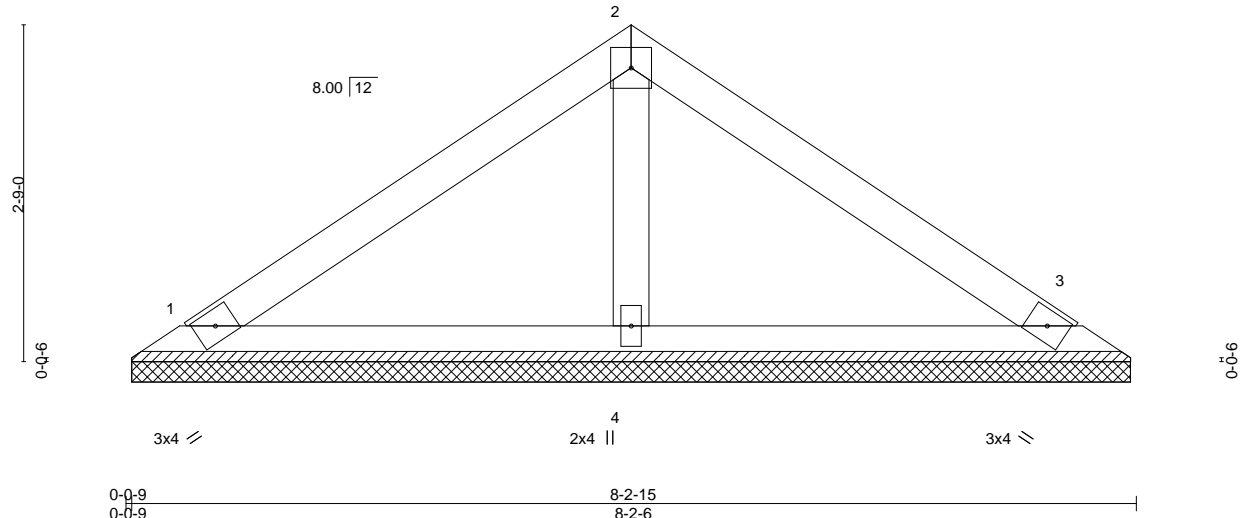
8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:23 2024 Page 1

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4x4 =

Scale = 1:18.8



| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.18 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.10 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.03 | Horz(CT) | 0.00 | 3 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | | | | | Weight: 28 lb | FT = 25% |
| | Code IRC2015/TPI2014 | | | | | | | |

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=8-1-13, 3=8-1-13, 4=8-1-13
 Max Horz 1=-58(LC 10)
 Max Uplift 1=-25(LC 12), 3=-31(LC 13)
 Max Grav 1=158(LC 1), 3=158(LC 1), 4=265(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=130mph Vasd=103mph; TC DL=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.
- 6) Non Standard bearing condition. Review required.



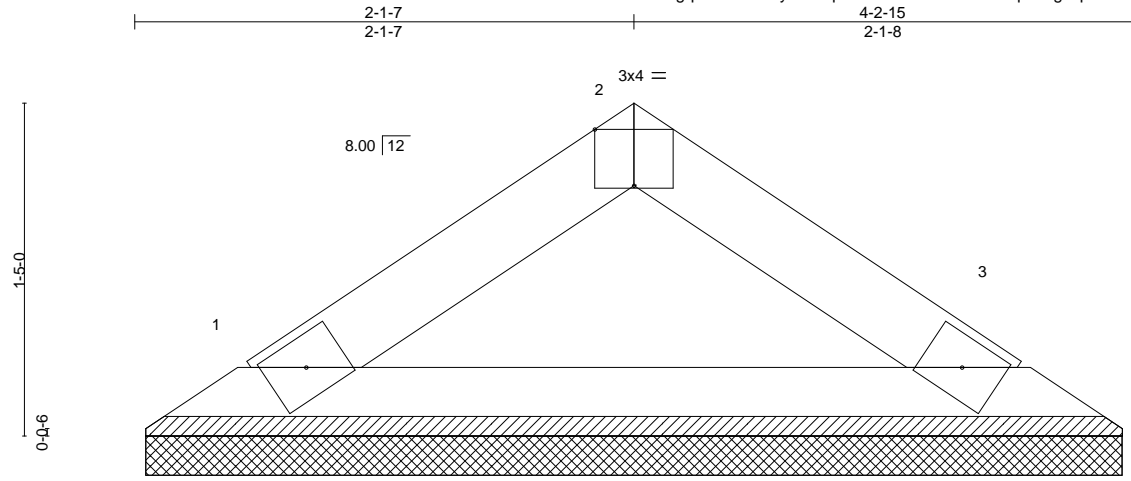
April 19, 2024

| | | | | | | |
|-------------------|-------------|----------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss V4 | Truss Type VALLEY | Qty 1 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | I65027745 |
|-------------------|-------------|----------------------|----------|----------|--|-----------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:23 2024 Page 1

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Scale = 1:9.8

| | | | |
|-----------------------|----------------|-------|--------|
| Plate Offsets (X,Y)-- | [2:0-2-0,Edge] | 0-0-9 | 4-2-15 |
| | | 0-0-9 | 4-2-6 |

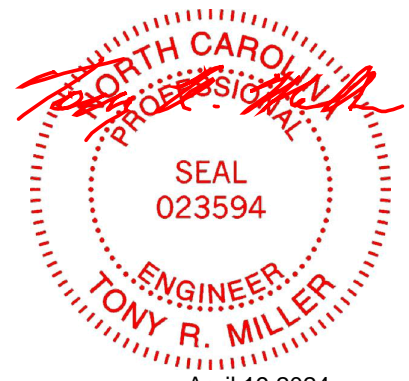
| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.03 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.09 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(CT) | 0.00 | 3 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-P | | | | | Weight: 12 lb | FT = 25% |

| LUMBER- | BRACING- |
|-----------------------|--|
| TOP CHORD 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 4-2-15 oc purlins. |
| BOT CHORD 2x4 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |

REACTIONS. (size) 1=4-1-13, 3=4-1-13
 Max Horz 1=-26(LC 8)
 Max Uplift 1=-7(LC 12), 3=-7(LC 13)
 Max Grav 1=130(LC 1), 3=130(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=130mph Vasd=103mph; 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.
 - 6) Non Standard bearing condition. Review required.



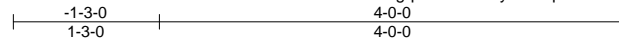
April 19, 2024

| | | | | | | |
|-------------------|-------------|-------------------------|-----------|----------|--|-----------|
| Job J0424-2257 | Truss X1 | Truss Type Jack-Open | Qty 19 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | I65027746 |
|-------------------|-------------|-------------------------|-----------|----------|--|-----------|

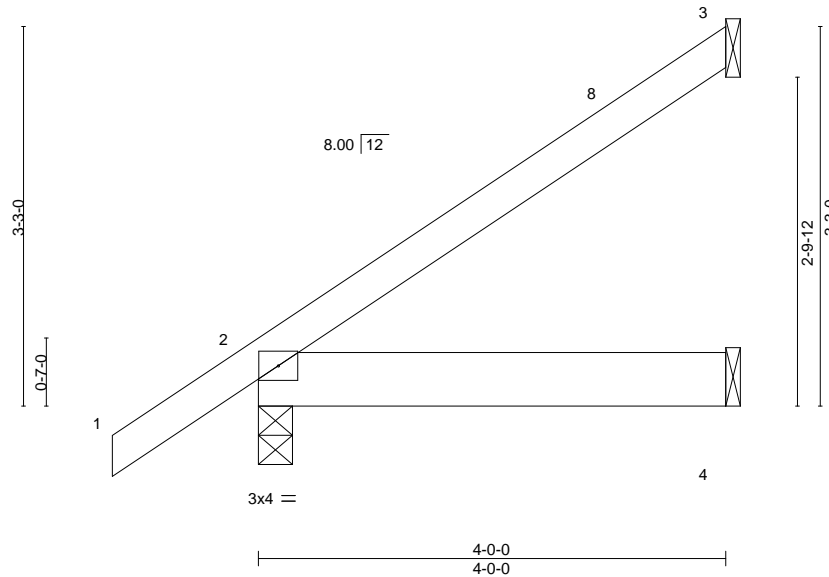
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:24 2024 Page 1

ID:sDGgqS?97a5hnuyVu1sqZuzPsQT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:19.7



| 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 0.12 | Vert(LL) | -0.00 4-7 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.09 | Vert(CT) | -0.01 4-7 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.00 | Horz(CT) | 0.00 3 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-AS | Wind(LL) | -0.01 4-7 | >999 | 240 | | |
| | | | | | | | | Weight: 19 lb | FT = 25% |

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=107(LC 12)
Max Uplift 3=-51(LC 12), 2=-6(LC 12)
Max Grav 3=99(LC 19), 2=244(LC 1), 4=80(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-3-0 to 3-1-13, Interior(1) 3-1-13 to 3-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 19, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



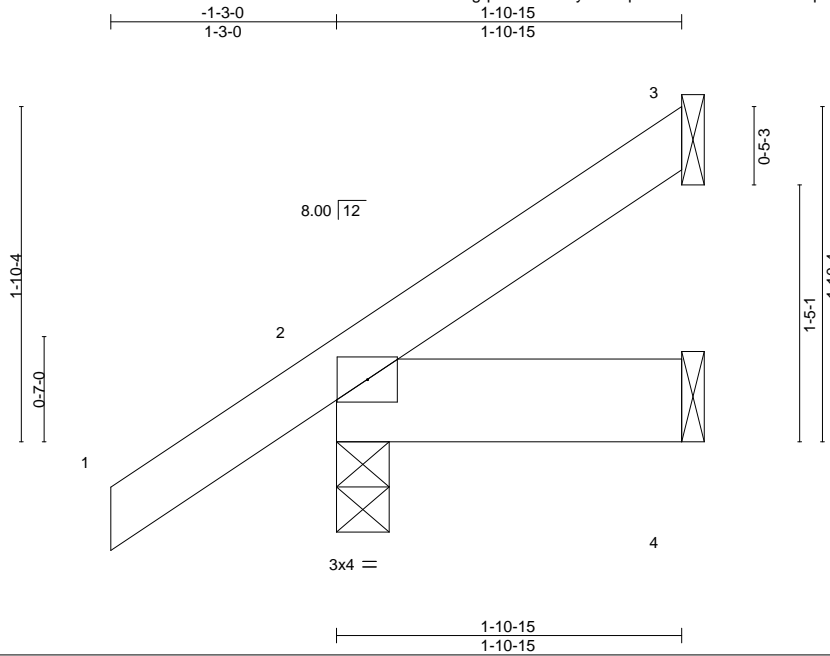
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|-------------------|-------------|-------------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss Y1 | Truss Type Jack-Open | Qty 6 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | I65027747 |
|-------------------|-------------|-------------------------|----------|----------|--|-----------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:24 2024 Page 1

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Scale = 1:12.8

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-----------|----------|----------|--------|------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.08 | Vert(LL) | -0.00 | 7 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.03 | Vert(CT) | -0.00 | 7 | >999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.00 | Horz(CT) | 0.00 | 3 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-MP | Wind(LL) | -0.00 | 7 | >999 | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 10 lb | FT = 25% |

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=63(LC 12)
Max Uplift 3=22(LC 12), 2=-16(LC 12)
Max Grav 3=41(LC 19), 2=176(LC 1), 4=34(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



April 19, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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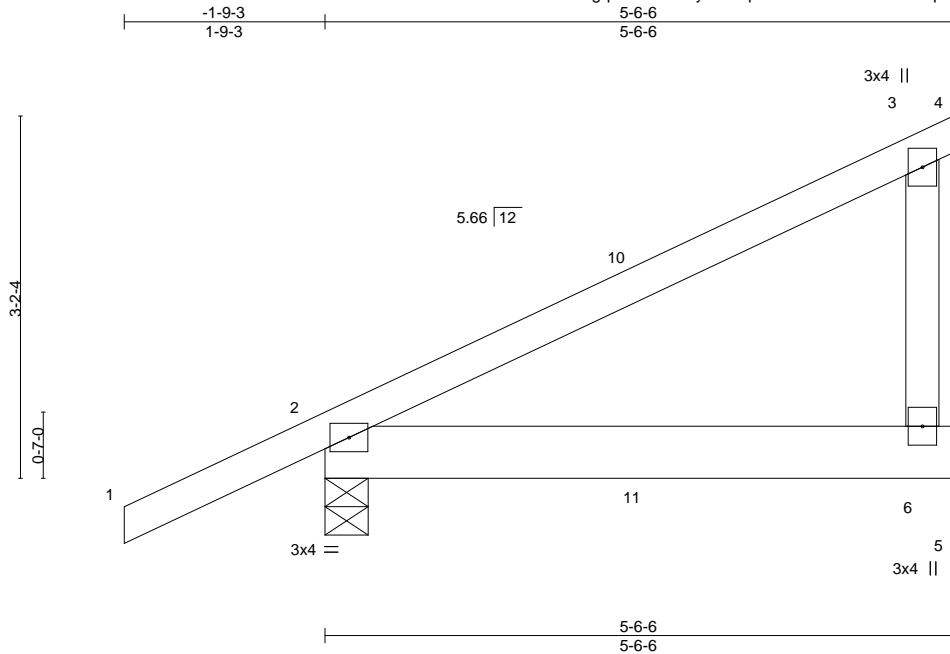
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|-------------------|-------------|-----------------------------------|----------|----------|--|-----------|
| Job J0424-2257 | Truss Z1 | Truss Type Diagonal Hip Girder | Qty 3 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | 165027748 |
|-------------------|-------------|-----------------------------------|----------|----------|--|-----------|

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:24 2024 Page 1

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Scale = 1:20.3

| 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 0.26 | Vert(LL) | -0.01 6-9 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.12 | Vert(CT) | -0.02 6-9 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.00 | Horz(CT) | 0.00 2 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-MP | Wind(LL) | 0.01 6-9 | >999 | 240 | Weight: 29 lb | FT = 25% |

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=Mechanical, 2=0-4-9
 Max Horz 2=106(LC 23)
 Max Uplift 6=42(LC 8), 2=28(LC 8)
 Max Grav 6=202(LC 29), 2=332(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 62 lb down and 28 lb up at 2-9-8, and 62 lb down and 28 lb up at 2-9-8 on top chord, and 13 lb down and 2 lb up at 2-9-8, and 13 lb down and 2 lb up at 2-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-4=-20, 5-7=-20
 Concentrated Loads (lb)
 Vert: 11=3(F=2, B=2)



April 19, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



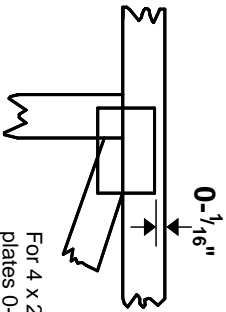
818 Soundside Road
 Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

* Plate 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.

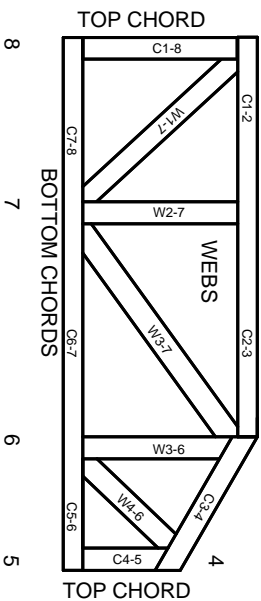
Industry Standards:

ANSI/TP1: 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



1 TOP CHORDS
2 JOINT ID TYP.



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/TP1 section 6.3. These truss designs rely on lumber values established by others.

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MITek

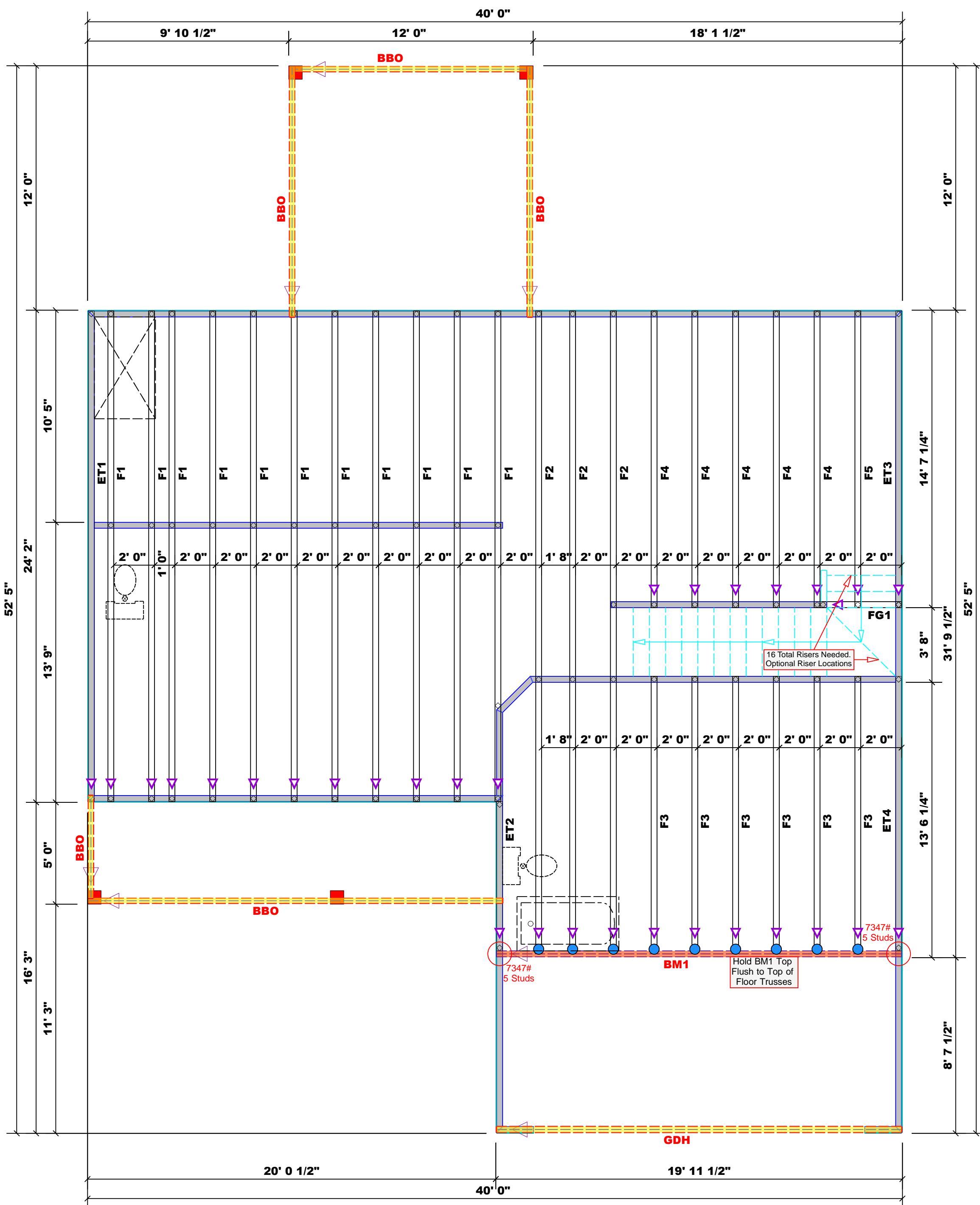
ENGINEERING BY
TRENGO
A MITek Affiliate

MITek Engineering Reference Sheet: MIL-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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.



| Products | | | | |
|----------|--------|-----------------------------|-------|---------|
| PlotID | Length | Product | Plies | Net Qty |
| BM1 | 20' 0" | 1-3/4"x 23-7/8" LVL Kerto-S | 2 | 2 |
| GDH | 20' 0" | 1-3/4"x 11-7/8" LVL Kerto-S | 2 | 2 |

| Plumbing Drop Notes | |
|---------------------|--|
| 1. | Plumbing drop locations shown are NOT exact. |
| 2. | Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses. |
| 3. | Adjust spacing as needed not to exceed 24"oc. |

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

All Walls Shown Are Considered Load Bearing

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

| Hatch Legend | | |
|--------------|-----------------|--|
| | Box Storage | |
| | 2nd Floor Walls | |
| | Flush Beam | |
| | Drop Beam | |

| Connector Information | | | | | Nail Information | |
|-----------------------|---------|-------|-----|------------------|------------------|------------|
| Sym | Product | Manuf | Qty | Supported Member | Header | Truss |
| | HUS410 | USP | 9 | NA | 16d/3-1/2" | 16d/3-1/2" |

= Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

| LOAD CHART FOR JACK STUDS | | |
|---|---------------------------|---------------------------|
| (BASED ON TABLES B502.5(1) & (2)) | | |
| NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADERS | | |
| END REACTION (UP TO) 1700 | END REACTION (UP TO) 2550 | END REACTION (UP TO) 3400 |
| 1 | 1 | 1 |
| 3400 | 5100 | 6800 |
| 2 | 2 | 2 |
| 5100 | 7650 | 10200 |
| 3 | 3 | 3 |
| 6800 | 10200 | 13600 |
| 4 | 4 | 4 |
| 8500 | 12750 | 17000 |
| 5 | 5 | 5 |
| 10200 | 15300 | |
| 6 | | |
| 11900 | | |
| 7 | | |
| 13600 | | |
| 8 | | |
| 15300 | | |
| 9 | | |

| | | | |
|------------------|--------------------------|-------------------|-----------------------|
| BUILDER | Wellco Contractors, Inc. | CITY / CO. | Spring Lake / Harnett |
| JOB NAME | Lot 12 Overhills Creek | ADDRESS | 87 Onslow Court |
| PLAN | Plan 13 / 2GRF | MODEL | Roof |
| SEAL DATE | Seal Date | DATE REV. | 04/18/24 |
| QUOTE # | Quote # | DRAWN BY | David Landry |
| JOB # | J0424-2257 | SALES REP. | Lenny Norris |

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSB-1 and BCSB-3 provided with the truss delivery package or online @ sbcindustry.com

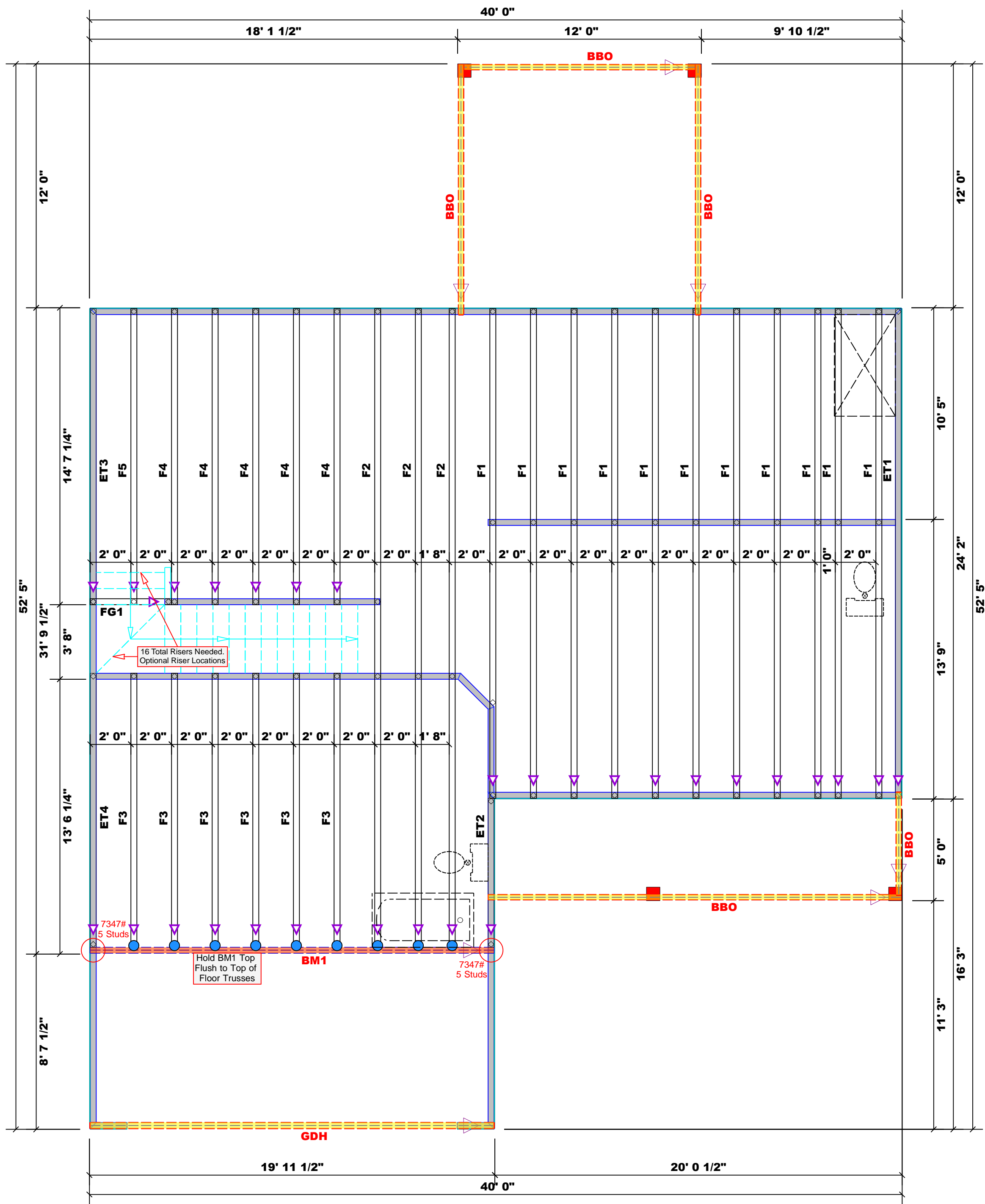
Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions 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: David Landry
David Landry

comtech

ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444



| Products | | | | |
|----------|--------|-----------------------------|-------|---------|
| PlotID | Length | Product | Plies | Net Qty |
| BM1 | 20' 0" | 1-3/4"x 23-7/8" LVL Kerto-S | 2 | 2 |
| GDH | 20' 0" | 1-3/4"x 11-7/8" LVL Kerto-S | 2 | 2 |

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

All Walls Shown Are Considered Load Bearing

| Plumbing Drop Notes | |
|---------------------|--|
| 1. | Plumbing drop locations shown are NOT exact. |
| 2. | Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses. |
| 3. | Adjust spacing as needed not to exceed 24"oc. |

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

| Hatch Legend | | | |
|--------------|-----------------|--|--|
| | Box Storage | | |
| | 2nd Floor Walls | | |
| | Flush Beam | | |
| | Drop Beam | | |

| Connector Information | | | | | Nail Information | |
|-----------------------|---------|-------|-----|------------------|------------------|------------|
| Sym | Product | Manuf | Qty | Supported Member | Header | Truss |
| | HUS410 | USP | 9 | NA | 16d/3-1/2" | 16d/3-1/2" |

= Indicates Left End of Truss (Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

| LOAD CHART FOR JACK STUDS | | |
|--|---------------------------------------|---------------------------------------|
| (BASED ON TABLES B502.5(1) & (2)) | | |
| NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADERS/ROOF | | |
| END REACTION (UP TO) @ END OF HEADERS | END REACTION (UP TO) @ END OF HEADERS | END REACTION (UP TO) @ END OF HEADERS |
| 1700 | 2550 | 3400 |
| 3400 | 5100 | 6800 |
| 5100 | 7650 | 10200 |
| 6800 | 10200 | 13600 |
| 8500 | 12750 | 17000 |
| 10200 | 15300 | |
| 11900 | | |
| 13600 | | |
| 15300 | | |

| | | | |
|------------------|--------------------------|-------------------|-----------------------|
| BUILDER | Wellco Contractors, Inc. | CITY / CO. | Spring Lake / Harnett |
| JOB NAME | Lot 12 Overhills Creek | ADDRESS | 87 Onslow Court |
| PLAN | Plan 13 / 2GRF | MODEL | Roof |
| SEAL DATE | Seal Date | DATE REV. | 04/18/24 |
| QUOTE # | Quote # | DRAWN BY | David Landry |
| JOB # | J0424-2257 | SALES REP. | Lenny Norris |

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSB-1 and BCSB-3 provided with the truss delivery package or online @ sbcindustry.com

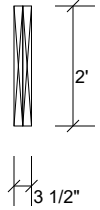
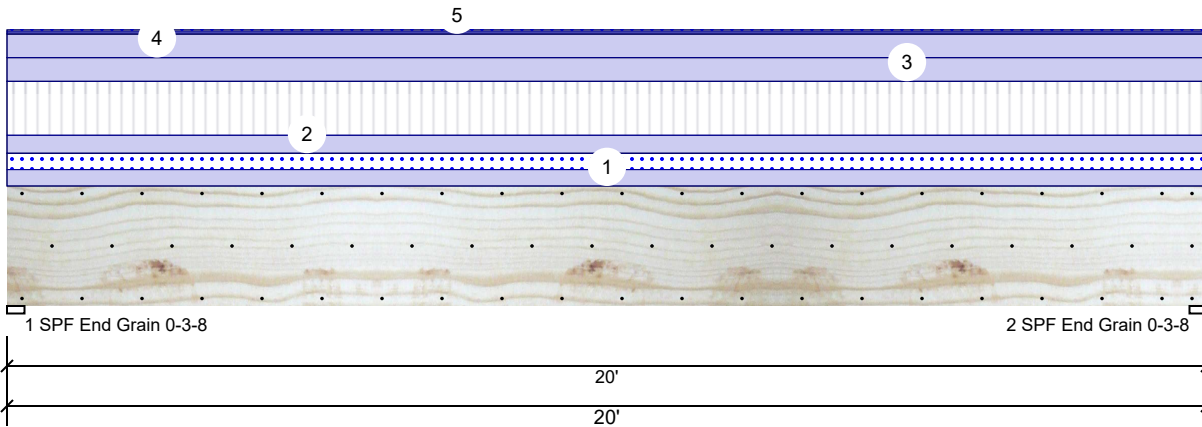
Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions 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: David Landry
David Landry

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

BM1 Kerto-S LVL 1.750" X 24.000" 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 Ib (Uplift)

| Brg | Direction | Live | Dead | Snow | Wind | Const |
|-----|-----------|------|------|------|------|-------|
| 1 | Vertical | 2730 | 4527 | 1030 | 0 | 0 |
| 2 | Vertical | 2730 | 4527 | 1030 | 0 | 0 |

Bearings

| Bearing | Length | Dir. | Cap. | React D/L lb | Total | Ld. Case | Ld. Comb. |
|-------------------|--------|------|------|--------------|-------|----------|-------------|
| 1 - SPF End Grain | 3.500" | Vert | 71% | 4527 / 2820 | 7347 | L | D+0.75(L+S) |
| 2 - SPF End Grain | 3.500" | Vert | 71% | 4527 / 2820 | 7347 | L | D+0.75(L+S) |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|----------------|-----------|---------------|--------------|-------------|------|
| Moment | 34713 ft-lb | 10' | 73185 ft-lb | 0.474 (47%) | D+L | L |
| Unbraced | 35144 ft-lb | 10' | 35247 ft-lb | 0.997 (100%) | D+0.75(L+S) | L |
| Shear | 6525 lb | 17'8 1/2" | 17920 lb | 0.364 (36%) | D+L | L |
| LL Defl inch | 0.134 (L/1755) | 10' 1/16" | 0.489 (L/480) | 0.273 (27%) | 0.75(L+S) | L |
| TL Defl inch | 0.348 (L/674) | 10' 1/16" | 0.652 (L/360) | 0.534 (53%) | D+0.75(L+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 3 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 a maximum of 5' 1/2" o.c.
- 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 | | | Near Face | 83 PLF | 0 PLF | 83 PLF | 0 PLF | 0 PLF | M2 |
| 2 | Uniform | | | Far Face | 91 PLF | 273 PLF | 0 PLF | 0 PLF | 0 PLF | F3 |
| 3 | Uniform | | | Top | 120 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | Wall |
| 4 | Uniform | | | Top | 120 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | B1GE |
| 5 | Tie-In Far | 0-0-0 to 20-0-0 | 1-0-0 | Top | 20 PSF | 0 PSF | 20 PSF | 0 PSF | 0 PSF | Roof |

Continued on page 2...

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

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

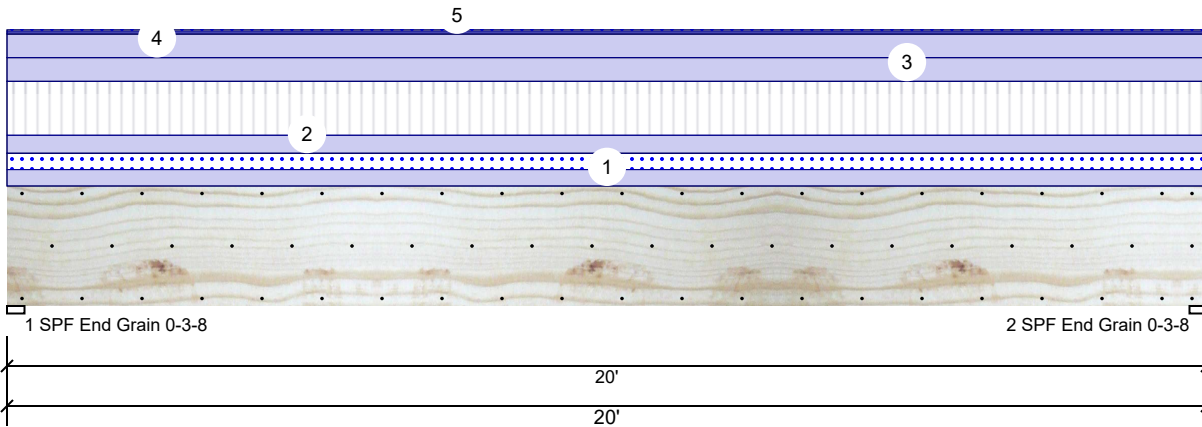
Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us

Comtech, Inc.
 1001 S Reilly Rd., NC
 28314
 (910) 864-8787



BM1 Kerto-S LVL 1.750" X 24.000" 2-Ply - PASSED

Level: Level



...Continued from page 1

| ID | Load Type | Location | Trib Width | Side | Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 | Const. 1.25 | Comments |
|----|----------------------------|-----------------|------------|------|------------------|--------|-----------|----------|-------------|----------|
| 5 | Tie-In Near Self Weight | 0-0-0 to 20-0-0 | 0-0-0 | Top | 20 PSF 19 PLF | 0 PSF | 20 PSF | 0 PSF | 0 PSF | Roof |

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

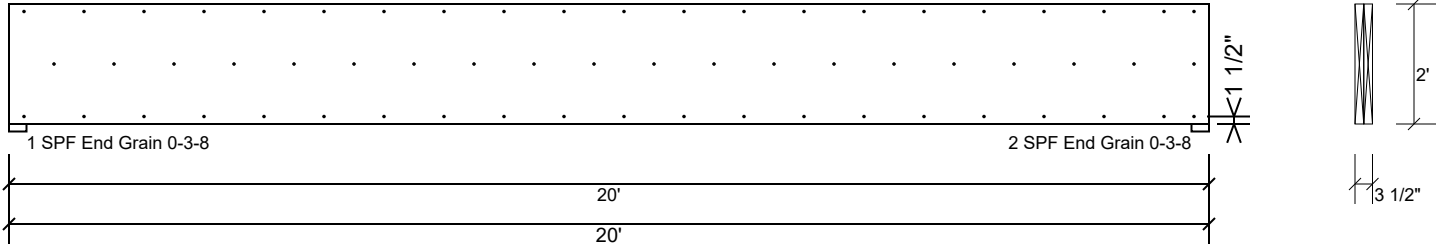
Metsä Wood
 301 Merritt 7 Building, 2nd Floor
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www.metsawood.com/us

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 1001 S Reilly Rd., NC
 28314
 (910) 864-8787



BM1 Kerto-S LVL 1.750" X 24.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

| | |
|--------------------------|-----------|
| Capacity | 74.1 % |
| Load | 182.0 PLF |
| Yield Limit per Foot | 245.6 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 | D+L |
| 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

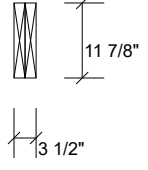
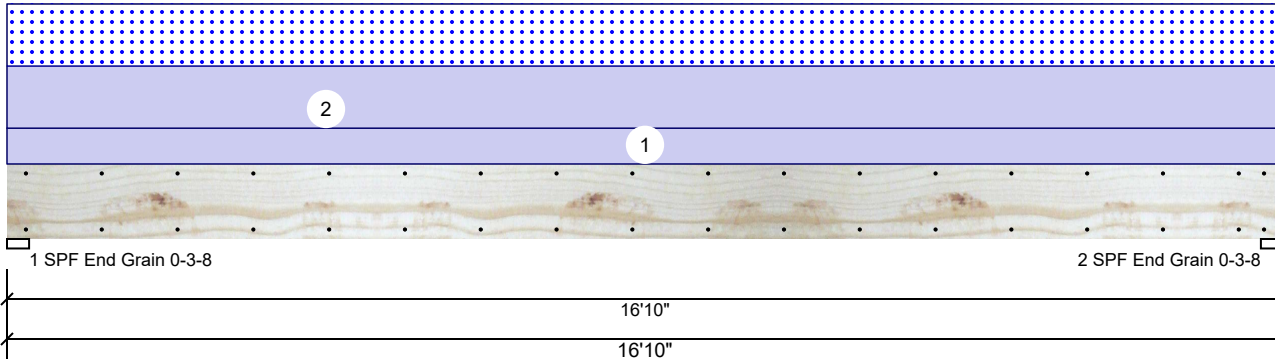
Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us

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 1001 S Reilly Rd., NC
 28314
 (910) 864-8787



GDH Kerto-S LVL 1.750" X 11.875" 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 | 1458 | 875 | 0 | 0 |
| 2 | Vertical | 0 | 1458 | 875 | 0 | 0 |

Bearings

| Bearing | Length | Dir. | Cap. | React D/L lb | Total | Ld. Case | Ld. Comb. |
|-------------------|--------|------|------|--------------|-------|----------|-----------|
| 1 - SPF End Grain | 3.500" | Vert | 23% | 1458 / 875 | 2333 | L | D+S |
| 2 - SPF End Grain | 3.500" | Vert | 23% | 1458 / 875 | 2333 | L | D+S |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|----------------|-----------|---------------|--------------|-------|------|
| Moment | 9292 ft-lb | 8'5" | 22897 ft-lb | 0.406 (41%) | D+S | L |
| Unbraced | 9292 ft-lb | 8'5" | 9309 ft-lb | 0.998 (100%) | D+S | L |
| Shear | 1987 lb | 1'3 3/8" | 10197 lb | 0.195 (19%) | D+S | L |
| LL Defl inch | 0.182 (L/1080) | 8'5 1/16" | 0.409 (L/480) | 0.444 (44%) | S | L |
| TL Defl inch | 0.485 (L/405) | 8'5 1/16" | 0.546 (L/360) | 0.888 (89%) | 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 a maximum of 10' 7/8" o.c.
- 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 | 60 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | Wall |
| 2 | Uniform | | | Top | 104 PLF | 0 PLF | 104 PLF | 0 PLF | 0 PLF | M2 |
| | Self Weight | | | | 9 PLF | | | | | |

Notes

Calculated Structural 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

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

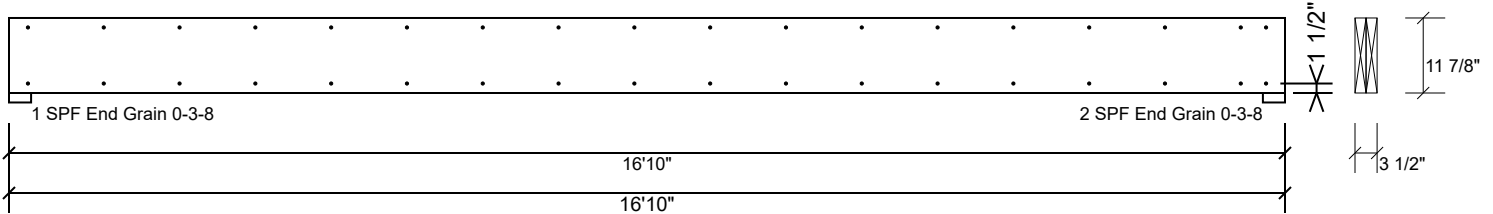
Metsä Wood
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 28314
 (910) 864-8787



GDH Kerto-S LVL 1.750" X 11.875" 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
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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 Rd., NC
 28314
 (910) 864-8787



RE: J0424-2258
 Lot 12 Overhills Creek

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Customer: Project Name: J0424-2258
 Lot/Block: Model:
 Address: Subdivision:
 City: State:

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

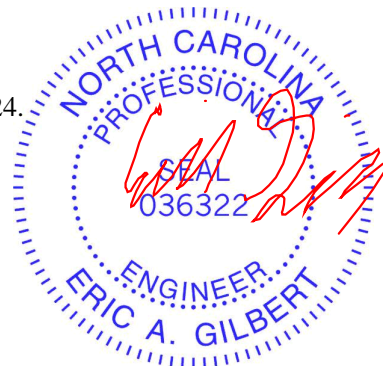
Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4
 Wind Code: N/A Wind Speed: N/A mph
 Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 10 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date |
|-----|-----------|------------|-----------|
| 1 | I65027749 | ET1 | 4/19/2024 |
| 2 | I65027750 | ET2 | 4/19/2024 |
| 3 | I65027751 | ET3 | 4/19/2024 |
| 4 | I65027752 | ET4 | 4/19/2024 |
| 5 | I65027753 | F1 | 4/19/2024 |
| 6 | I65027754 | F2 | 4/19/2024 |
| 7 | I65027755 | F3 | 4/19/2024 |
| 8 | I65027756 | F4 | 4/19/2024 |
| 9 | I65027757 | F5 | 4/19/2024 |
| 10 | I65027758 | FG1 | 4/19/2024 |

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, 2024.
 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.



| | | | | | | |
|-------------------|--------------|---------------------|----------|----------|--|-----------|
| Job J0424-2258 | Truss ET1 | Truss Type GABLE | Qty 1 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | 165027749 |
|-------------------|--------------|---------------------|----------|----------|--|-----------|

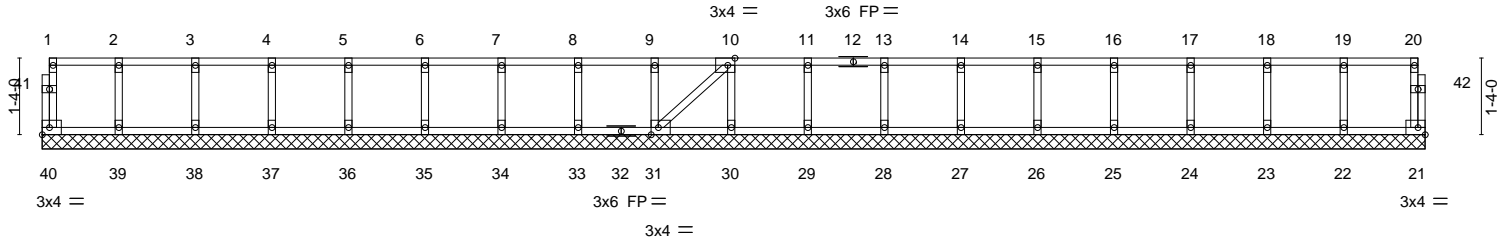
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:42 2024 Page 1
ID:sDGgqS?97a5hnuYVu1sqZuzPsQT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

0-1-8

0-1-8

Scale = 1:40.1



| | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1-4-0 | 2-8-0 | 4-0-0 | 5-4-0 | 6-8-0 | 8-0-0 | 9-4-0 | 10-8-0 | 12-0-0 | 13-4-0 | 14-8-0 | 16-0-0 | 17-4-0 | 18-8-0 | 20-0-0 | 21-4-0 | 22-8-0 | 24-1-0 |
| 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-5-0 |

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [31:0-1-8,Edge]

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|-----|----------------|-----------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 40.0 | Plate Grip DOL | 1.00 | TC 0.06 | Vert(LL) | n/a | - | n/a | 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 | 21 | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 107 lb | FT = 20%F, 11%E |

| | |
|-----------------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.1(flat) | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1(flat) | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3(flat) | |
| OTHERS 2x4 SP No.3(flat) | |

REACTIONS. All bearings 24-1-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 40, 21, 39, 38, 37, 36, 35, 34, 33, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Plates checked for a plus or minus 1 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) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



April 19, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road
Edenton, NC 27932

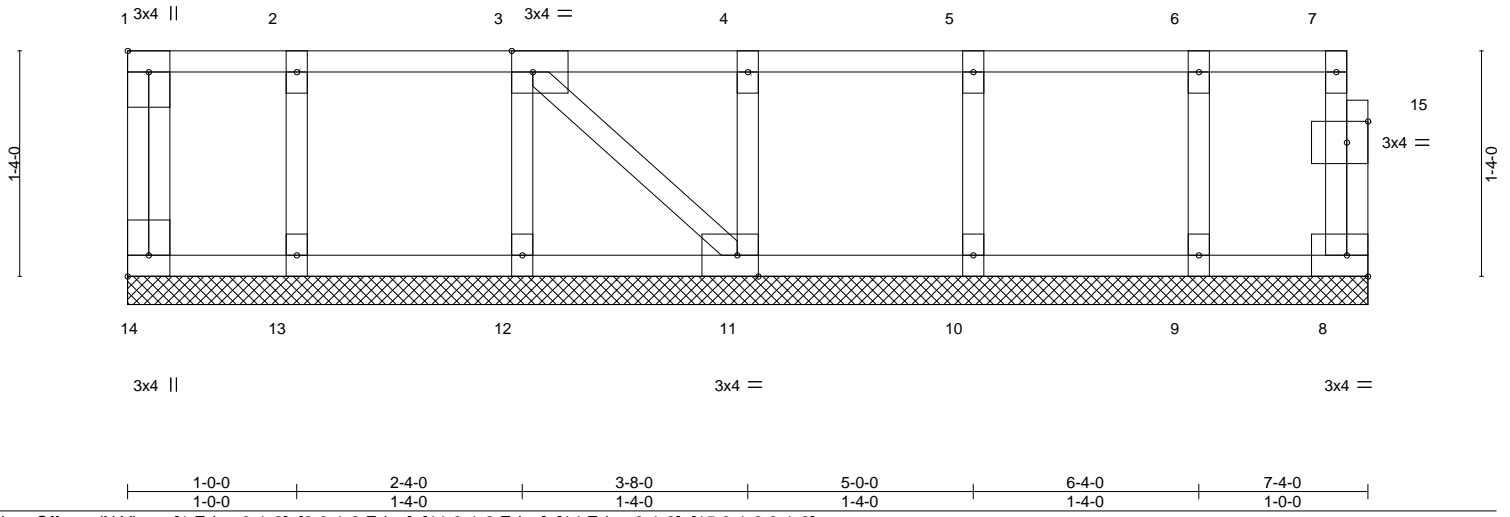
| | | | | | | |
|-------------------|--------------|---------------------|----------|----------|--|-----------|
| Job J0424-2258 | Truss ET2 | Truss Type GABLE | Qty 1 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | I65027750 |
|-------------------|--------------|---------------------|----------|----------|--|-----------|

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:43 2024 Page 1
ID:sDGgqS?97a5hnuyVu1sqZuzPsQT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8

Scale = 1:13.6



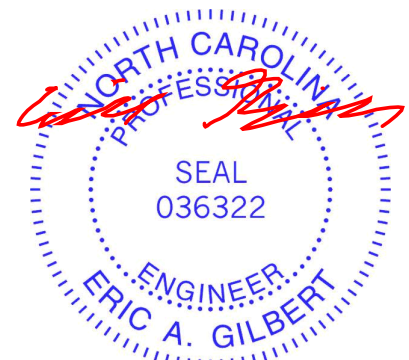
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|-----------------|
| TCLL 40.0 | Plate Grip DOL | 1.00 | TC 0.06 | Vert(LL) | n/a | - | n/a | MT20 | 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 | 8 | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | | | |
| | | | | | | | | Weight: 38 lb | FT = 20%F, 11%E |

| LUMBER- | BRACING- |
|-----------------------------|---|
| TOP CHORD 2x4 SP No.1(flat) | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1(flat) | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3(flat) | |
| OTHERS 2x4 SP No.3(flat) | |

REACTIONS. All bearings 7-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

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

- NOTES-**
- All plates are 1.5x3 MT20 unless otherwise indicated.
 - Plates checked for a plus or minus 1 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.
 - 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.



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| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 12 Overhills Creek | 165027751 |
| J0424-2258 | ET3 | GABLE | 1 | 1 | Job Reference (optional) | |

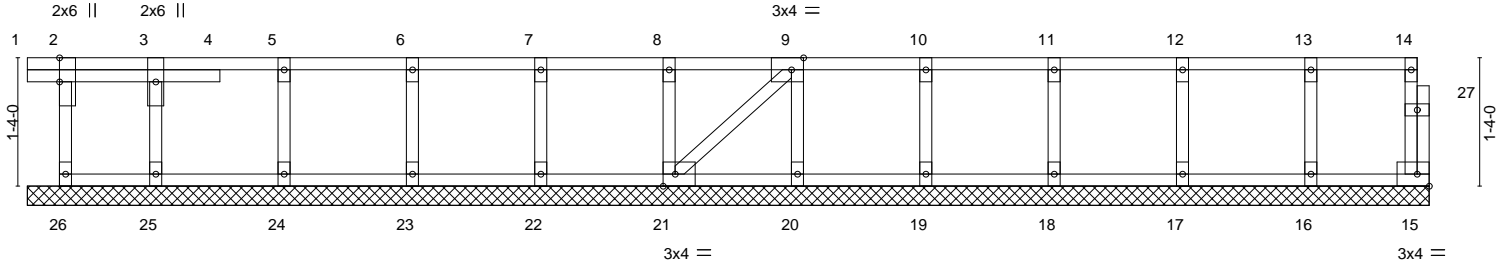
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:43 2024 Page 1
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0-4-0

0-1-8

Scale: 1/2"=1'



| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|---------|
| 0-4-0 | 1-4-0 | 2-8-0 | 4-0-0 | 5-4-0 | 6-8-0 | 8-0-0 | 9-4-0 | 10-8-0 | 12-0-0 | 13-4-0 | 14-6-12 |
| 0-4-0 | 1-0-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-2-12 |

Plate Offsets (X, Y)-- [2:0-3-0,Edge], [9:0-1-8,Edge], [21:0-1-8,Edge]

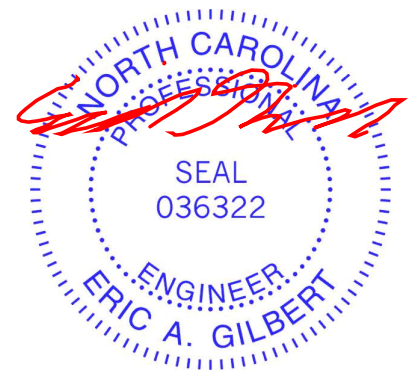
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|-----------------|
| TCLL 40.0 | Plate Grip DOL | 1.00 | TC 0.06 | Vert(LL) | -0.00 | 1 | n/r | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.00 | BC 0.01 | Vert(CT) | -0.00 | 1 | n/r | | |
| BCLL 0.0 | Rep Stress Incr | YES | WB 0.03 | Horz(CT) | 0.00 | 15 | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 68 lb | FT = 20%F, 11%E |

| LUMBER- | BRACING- |
|-----------------------------|---|
| TOP CHORD 2x4 SP No.1(flat) | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1(flat) | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3(flat) | |
| OTHERS 2x4 SP No.3(flat) | |


REACTIONS. All bearings 14-6-12.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 15, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16

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

- NOTES-**
- All plates are 1.5x3 MT20 unless otherwise indicated.
 - Plates checked for a plus or minus 1 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.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.



April 19, 2024

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| <p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p> | <p>ENGINEERING BY</p>  <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p> |
|--|--|

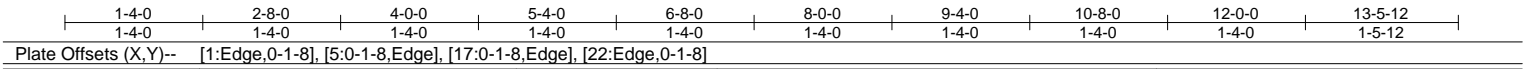
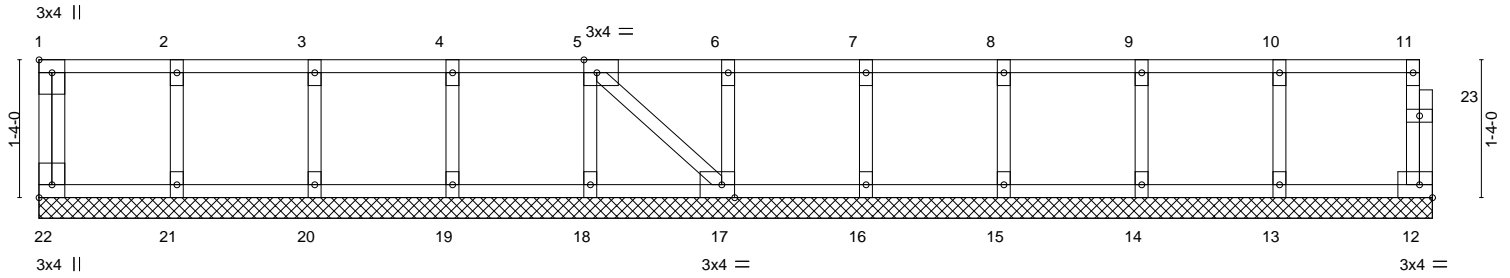
| | | | | | |
|------------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 12 Overhills Creek |
| J0424-2258 | ET4 | GABLE | 1 | 1 | I65027752 |
| | | | | | Job Reference (optional) |

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8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:43 2024 Page 1
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0-1-8

Scale = 1:22.3



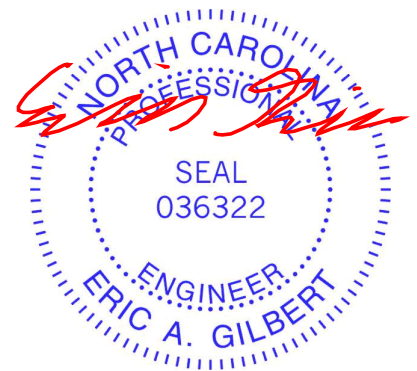
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|-----------------|
| TCLL 40.0 | Plate Grip DOL | 1.00 | TC 0.07 | Vert(LL) | n/a | - | n/a | MT20 | 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 | 12 | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 63 lb | FT = 20%F, 11%E |

| LUMBER- | BRACING- |
|-----------------------------|---|
| TOP CHORD 2x4 SP No.1(flat) | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1(flat) | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3(flat) | |
| OTHERS 2x4 SP No.3(flat) | |


REACTIONS. All bearings 13-5-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Plates checked for a plus or minus 1 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) 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.



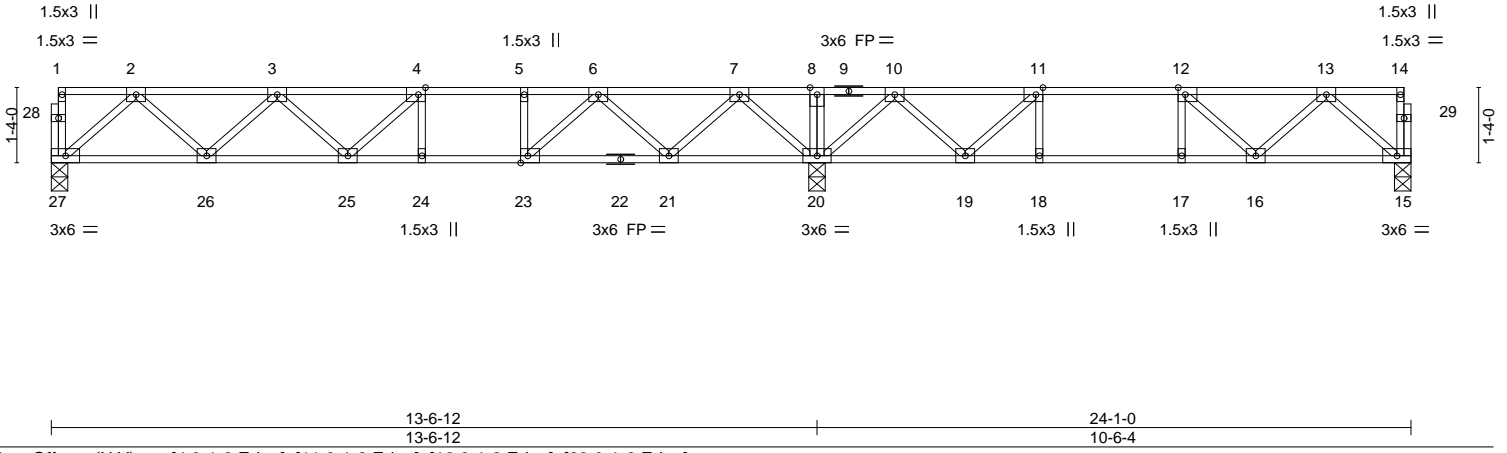
April 19, 2024

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|--|--|
| <p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p> | <p>ENGINEERING BY</p>  <p>A MITek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p> |
|--|--|

| | | | | | | |
|-------------------|-------------|---------------------|-----------|----------|--|-----------|
| Job J0424-2258 | Truss F1 | Truss Type Floor | Qty 11 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | 165027753 |
|-------------------|-------------|---------------------|-----------|----------|--|-----------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:44 2024 Page 1
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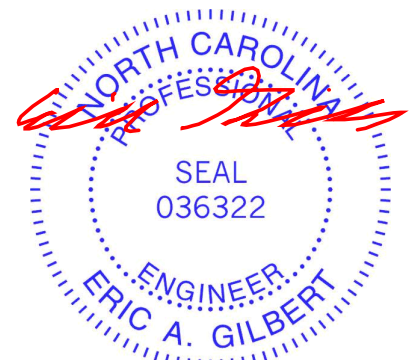
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|-------------|--------|-----|----------------|-----------------|
| TCLL 40.0 | Plate Grip DOL | 1.00 | TC 0.48 | Vert(LL) | -0.11 24-25 | >999 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.00 | BC 0.72 | Vert(CT) | -0.15 24-25 | >999 | 360 | | |
| BCLL 0.0 | Rep Stress Incr | YES | WB 0.35 | Horz(CT) | 0.03 15 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 124 lb | FT = 20%F, 11%E |

| | |
|-----------------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.1(flat) | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1(flat) | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 20-21,19-20. |
| WEBS 2x4 SP No.3(flat) | |

REACTIONS. (size) 27=0-3-8, 20=0-3-8, 15=0-3-8
Max Grav 27=707(LC 10), 20=1437(LC 1), 15=526(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1214/0, 3-4=-1797/0, 4-5=-1862/0, 5-6=-1862/0, 6-7=-1020/0, 7-8=0/805, 8-10=0/805, 10-11=-649/81, 11-12=-1034/0, 12-13=-815/0
 BOT CHORD 26-27=0/746, 25-26=0/1658, 24-25=0/1862, 23-24=0/1862, 21-23=0/1515, 20-21=-92/531, 19-20=-236/296, 18-19=0/1034, 17-18=0/1034, 16-17=0/1034, 15-16=0/556
 WEBS 2-27=-991/0, 2-26=0/650, 3-26=-617/0, 7-20=-1128/0, 7-21=0/744, 6-21=-769/0, 6-23=0/646, 5-23=-276/0, 10-20=-858/0, 10-19=0/555, 11-19=-627/0, 13-15=-738/0, 13-16=0/361, 12-16=-297/43

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) 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.
 - 5) CAUTION, Do not erect truss backwards.



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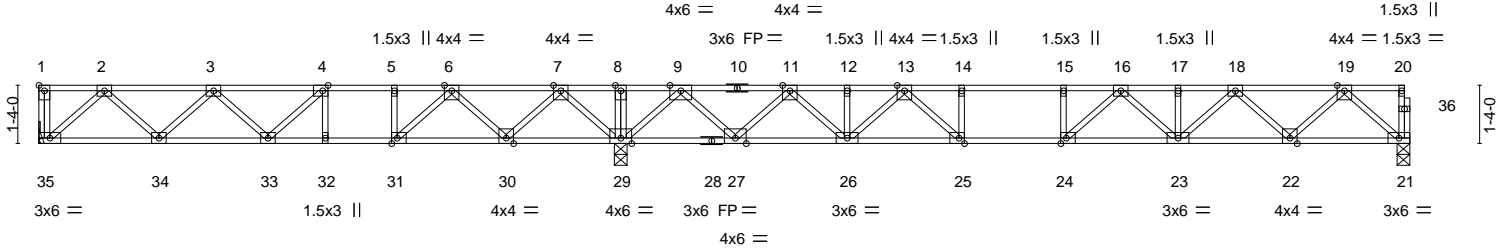
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|--|---|
| <p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p> | 818 Soundside Road Edenton, NC 27932 |
|--|---|

| | | | | | |
|-------------------|-------------|---------------------|----------|----------|-------------------------------------|
| Job J0424-2258 | Truss F2 | Truss Type Floor | Qty 3 | Ply 1 | Lot 12 Overhills Creek 165027754 |
|-------------------|-------------|---------------------|----------|----------|-------------------------------------|

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| | |
|------------------------|---|
| Plate Offsets (X, Y)-- | [1:Edge,0-1-8], [4:0-1-8,Edge], [24:0-1-8,Edge], [25:0-1-8,Edge], [31:0-1-8,Edge] |
|------------------------|---|

| | | | | | |
|----------------------|-----------------------|-------------|----------------------------------|----------------|-----------------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 40.0 | Plate Grip DOL 1.00 | TC 0.89 | Vert(LL) -0.24 23-24 >904 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.90 | Vert(CT) -0.32 23-24 >664 360 | | |
| BCLL 0.0 | Rep Stress Incr YES | WB 0.58 | Horz(CT) 0.05 21 n/a n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | Weight: 164 lb | FT = 20%F, 11%E |

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

REACTIONS. (size) 35=Mechanical, 29=0-3-8, 21=0-3-8
Max Grav 35=645(LC 3), 29=2028(LC 1), 21=872(LC 4)

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

TOP CHORD 2-3=-1067/0, 3-4=-1506/127, 4-5=-1467/357, 5-6=-1467/357, 6-7=-507/978, 7-8=0/1953, 8-9=0/1953, 9-11=-412/262, 11-12=-1851/0, 12-13=-1851/0, 13-14=-2816/0, 14-15=-2816/0, 15-16=-2816/0, 16-17=-2552/0, 17-18=-2552/0, 18-19=-1561/0

BOT CHORD 34-35=0/668, 33-34=-5/1444, 32-33=-357/1467, 31-32=-357/1467, 30-31=-692/1051, 29-30=-1253/0, 27-29=-849/0, 26-27=-19/1227, 25-26=0/2345, 24-25=0/2816, 23-24=0/2795, 22-23=0/2162, 21-22=0/939

WEBS 2-35=-889/0, 2-34=-8/555, 3-34=-525/39, 7-29=-1265/0, 7-30=0/869, 6-30=-920/0, 6-31=0/888, 4-33=0/413, 4-32=-285/0, 5-31=-359/0, 19-21=-1248/0, 19-22=0/865, 18-22=-835/0, 18-23=0/530, 9-29=-1598/0, 9-27=0/1208, 11-27=-1166/0, 11-26=0/883, 13-26=-708/0, 13-25=0/867, 16-23=-331/0, 16-24=-264/291, 14-25=-427/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) 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.
 - 6) CAUTION, Do not erect truss backwards.



| | | | | | | |
|-------------------|-------------|---------------------|----------|----------|--|-----------|
| Job J0424-2258 | Truss F3 | Truss Type Floor | Qty 6 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | 165027755 |
|-------------------|-------------|---------------------|----------|----------|--|-----------|

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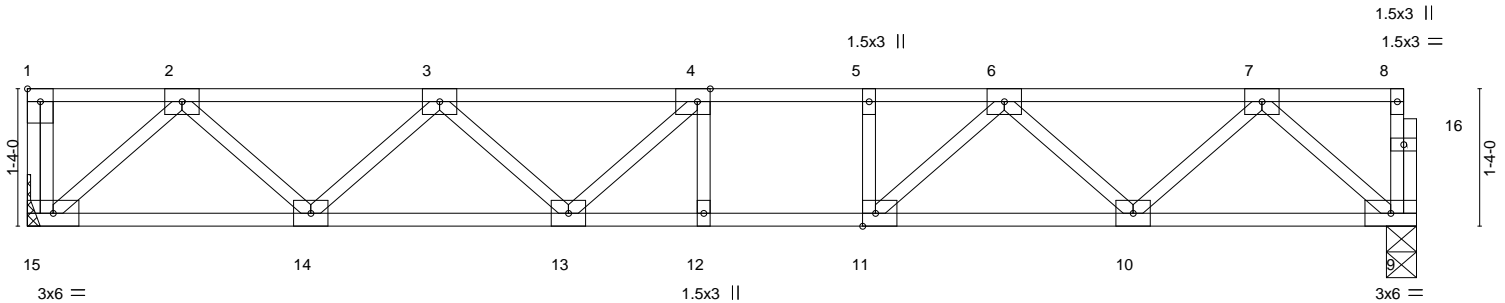
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1-3-0

1-5-12

0-1-8

Scale = 1:22.4



13-5-12
13-5-12

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

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|-------------|--------|-----|---------------|-----------------|
| TCLL 40.0 | Plate Grip DOL | 1.00 | TC 0.36 | Vert(LL) | -0.10 12-13 | >999 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.00 | BC 0.63 | Vert(CT) | -0.13 12-13 | >999 | 360 | | |
| BCLL 0.0 | Rep Stress Incr | YES | WB 0.32 | Horz(CT) | 0.03 9 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 71 lb | FT = 20%F, 11%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 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 15=Mechanical, 9=0-3-8
Max Grav 15=728(LC 1), 9=721(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1244/0, 3-4=-1858/0, 4-5=-1958/0, 5-6=-1958/0, 6-7=-1230/0
BOT CHORD 14-15=0/764, 13-14=0/1700, 12-13=0/1958, 11-12=0/1958, 10-11=0/1680, 9-10=0/770
WEBS 2-15=-1017/0, 2-14=0/668, 3-14=-633/0, 3-13=0/294, 4-13=-309/52, 7-9=-1022/0, 7-10=0/641, 6-10=-625/0, 6-11=0/529

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) 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.
 - 6) CAUTION, Do not erect truss backwards.



April 19, 2024

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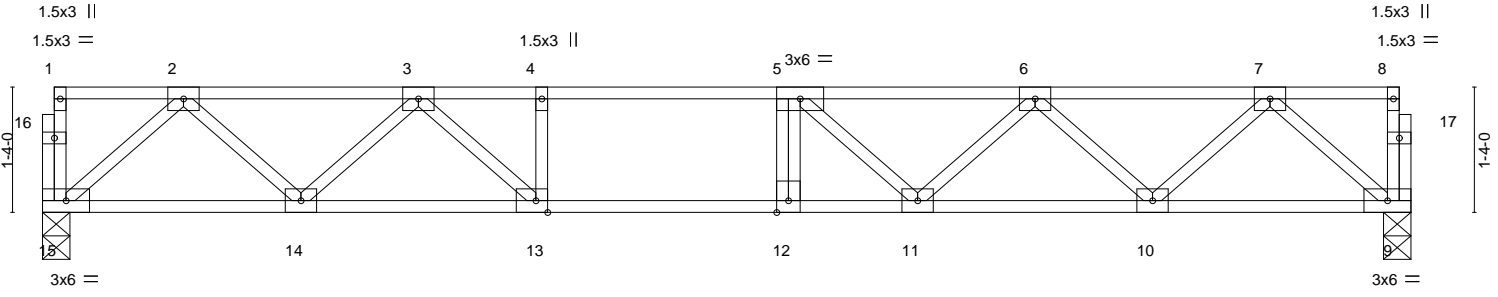
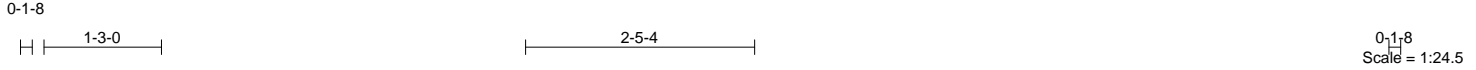


818 Soundside Road
Edenton, NC 27932

| | | | | | |
|-------------------|-------------|---------------------|----------|----------|-------------------------------------|
| Job J0424-2258 | Truss F4 | Truss Type Floor | Qty 5 | Ply 1 | Lot 12 Overhills Creek I65027756 |
|-------------------|-------------|---------------------|----------|----------|-------------------------------------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:45 2024 Page 1
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| Plate Offsets (X,Y)-- | [13:0-1-8,Edge] | | | | | | |
|-----------------------|-----------------------|-------------|-----------------------|--------|-----|---------------|-----------------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 40.0 | Plate Grip DOL 1.00 | TC 0.66 | Vert(LL) -0.19 11-12 | >908 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.87 | Vert(CT) -0.24 11-12 | >706 | 360 | | |
| BCLL 0.0 | Rep Stress Incr YES | WB 0.36 | Horz(CT) 0.03 9 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | | | Weight: 76 lb | FT = 20%F, 11%E |

| LUMBER- | | BRACING- | |
|----------------|-------------------|-----------------|---|
| TOP CHORD | 2x4 SP No.1(flat) | TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD | 2x4 SP No.1(flat) | BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 2x4 SP No.3(flat) | | |

REACTIONS. (size) 15=0-3-8, 9=0-3-8
Max Grav 15=781(LC 1), 9=781(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1353/0, 3-4=-2269/0, 4-5=-2269/0, 5-6=-2111/0, 6-7=-1373/0
BOT CHORD 14-15=0/838, 13-14=0/1868, 12-13=0/2269, 11-12=0/2269, 10-11=0/1892, 9-10=0/830
WEBS 2-15=-1113/0, 2-14=0/717, 3-14=-717/0, 3-13=0/721, 7-9=-1102/0, 7-10=0/755,
6-10=-722/0, 6-11=0/380, 5-11=-424/5, 4-13=-340/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



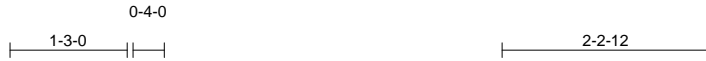
April 19, 2024

| | |
|--|---|
| <p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p> | <p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p> |
|--|---|

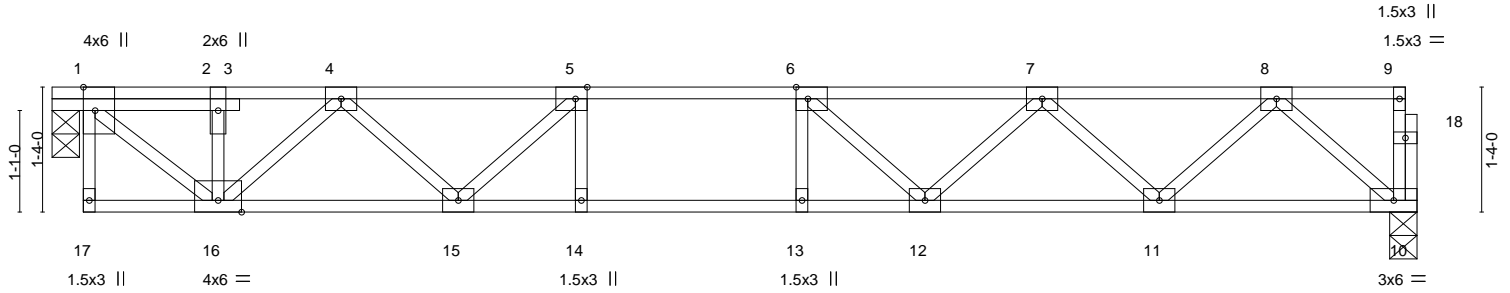
| | | | | | | |
|-------------------|-------------|---------------------|----------|----------|--|-----------|
| Job J0424-2258 | Truss F5 | Truss Type Floor | Qty 1 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | 165027757 |
|-------------------|-------------|---------------------|----------|----------|--|-----------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Apr 19 07:13:46 2024 Page 1
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0-1-8
Scale = 1:24.6



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

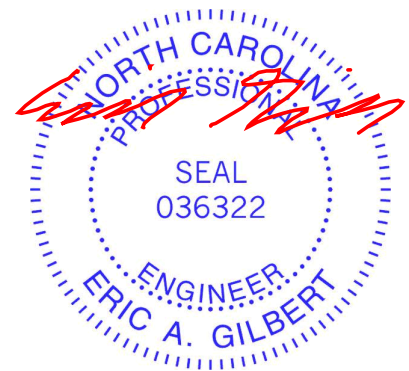
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|-------------|--------|-----|---------------|-----------------|
| TCLL 40.0 | Plate Grip DOL | 1.00 | TC 0.50 | Vert(LL) | -0.16 12-13 | >999 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.00 | BC 0.82 | Vert(CT) | -0.20 12-13 | >841 | 360 | | |
| BCLL 0.0 | Rep Stress Incr | YES | WB 0.51 | Horz(CT) | 0.02 10 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 77 lb | FT = 20%F, 11%E |

| LUMBER- | BRACING- |
|-----------------------------|---|
| TOP CHORD 2x4 SP No.1(flat) | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1(flat) | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3(flat) | |


REACTIONS. (size) 10=0-3-8, 1=0-3-8
Max Grav 10=766(LC 1), 1=772(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-815/0, 2-4=-815/0, 4-5=-1780/0, 5-6=-2201/0, 6-7=-2048/0, 7-8=-1340/0
BOT CHORD 15-16=0/1403, 14-15=0/2201, 13-14=0/2201, 12-13=0/2201, 11-12=0/1841, 10-11=0/814
WEBS 1-16=0/1061, 8-10=-1081/0, 8-11=0/732, 7-11=-696/0, 7-12=0/359, 6-12=-410/19, 4-16=-799/0, 4-15=0/525, 5-15=-664/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) 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.
 - 5) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 6) CAUTION, Do not erect truss backwards.



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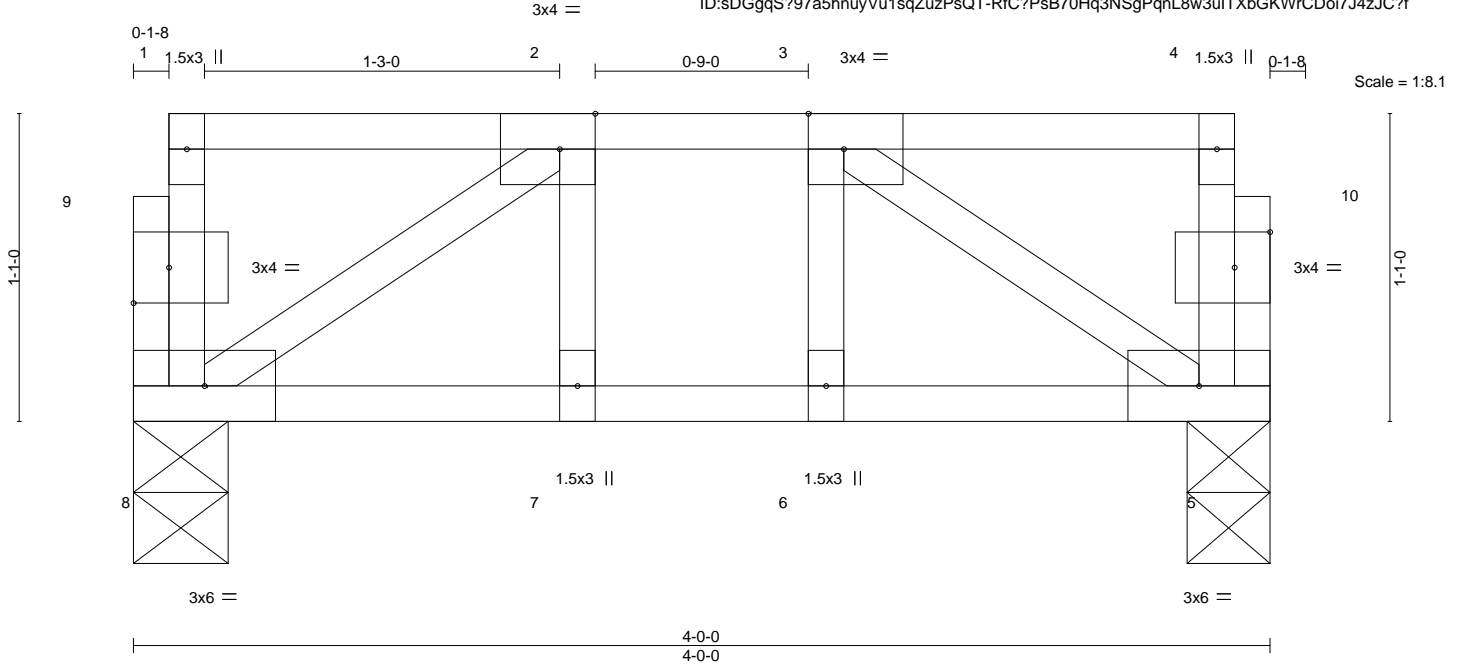
| | |
|--|---|
| <p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p> | <p>ENGINEERING BY</p>  <p>818 Soundside Road Edenton, NC 27932</p> |
|--|---|

| | | | | | | |
|-------------------|--------------|----------------------------|----------|----------|--|-----------|
| Job J0424-2258 | Truss FG1 | Truss Type Floor Girder | Qty 1 | Ply 1 | Lot 12 Overhills Creek Job Reference (optional) | 165027758 |
|-------------------|--------------|----------------------------|----------|----------|--|-----------|

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| | |
|-----------------------|---|
| Plate Offsets (X,Y)-- | [2:0-1-8,Edge], [3:0-1-8,Edge], [9:0-1-8,0-1-8], [10:0-1-8,0-1-8] |
|-----------------------|---|

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP | |
|---------------|----------------------|-------|----------|----------|----------|--------|------|---------------|-----------------|---------|
| TCLL 40.0 | Plate Grip DOL | 1.00 | TC 0.33 | Vert(LL) | -0.02 | 7-8 | >999 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.00 | BC 0.47 | Vert(CT) | -0.03 | 7-8 | >999 | 360 | | |
| BCLL 0.0 | Rep Stress Incr | NO | WB 0.20 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TP12014 | | Matrix-S | | | | | | | |
| | | | | | | | | Weight: 23 lb | FT = 20%F, 11%E | |

| LUMBER- | BRACING- |
|-----------------------------|---|
| TOP CHORD 2x4 SP No.1(flat) | TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1(flat) | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3(flat) | |

REACTIONS. (size) 8=0-4-0, 5=0-3-8
Max Grav 8=615(LC 1), 5=458(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-701/0
BOT CHORD 7-8=0/701, 6-7=0/701, 5-6=0/701
WEBS 3-5=-840/0, 2-8=-834/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) 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.

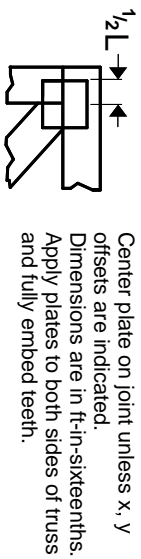
LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-100
Concentrated Loads (lb)
Vert: 2=-672



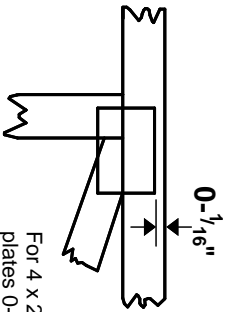
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Symbols

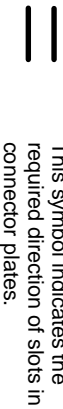
PLATE LOCATION AND ORIENTATION



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- $\frac{1}{16}$ \"/>



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

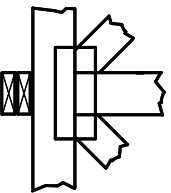
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

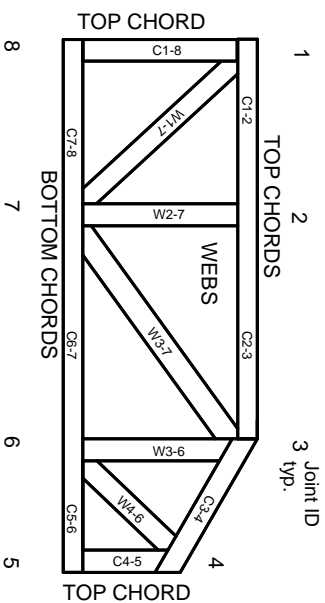


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: 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/TP1 section 6.3. These truss designs rely on Lumber values established by others.

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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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

MITek

ENGINEERING BY
TRENGO
A MITek Affiliate

MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023