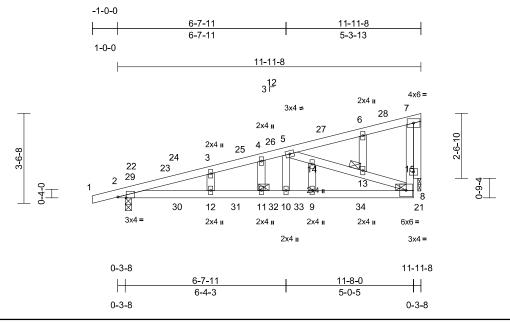
| Job | Truss | Truss Type | Qty | Ply | Blake Pond Lot 00.0128 Roof | |
|-------------|-------|---------------------------|-----|-----|-----------------------------|-----------|
| 2503-4260-A | C1G | Monopitch Supported Gable | 2 | 1 | Job Reference (optional) | 172872637 |

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S. Apr 11 2025 Print: 8.830 S. Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 10:56:24 ID: Z8vra6Kry1zRP8xbNeGViy76Ph-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:45.4

Plate Offsets (X, Y): [2:0-3-15,Edge]

| Loading | (psf) | Spacing | 2-0-0 | csi | - | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.50 | Vert(LL) | -0.09 | 12-20 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.72 | Vert(CT) | -0.14 | 12-20 | >992 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.38 | Horz(CT) | 0.01 | 21 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2021/TPI2014 | Matrix-AS | | Wind(LL) | 0.05 | 12 | >999 | 240 | | |
| BCDL | 10.0 | | | 1 | | | | | | | Weight: 60 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP SS **WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD 10-0-0 oc bracing.

JOINTS 1 Brace at Jt(s): 8,

REACTIONS (size) 2=0-3-0, 21=0-1-8

Max Horiz 2=62 (LC 12)

Max Uplift 2=-91 (LC 12), 21=-75 (LC 12) Max Grav 2=551 (LC 2), 21=473 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/20, 2-3=-997/332, 3-4=-978/344,

4-5=-956/350, 5-6=-129/12, 6-7=-123/28,

8-15=-173/462, 7-15=-173/462

BOT CHORD 2-12=-407/947, 11-12=-407/947, 10-11=-407/947, 9-10=-407/947,

8-9=-407/947

WEBS 5-10=-113/366, 5-14=-914/386,

13-14=-895/379, 8-13=-938/395, 6-13=-158/48, 9-14=-93/107, 4-11=-158/88,

3-12=-146/105, 7-21=-480/190

NOTES

Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 11-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right 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 stude exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 21.
- 12) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 21. This connection is for uplift only and does not consider lateral forces.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord.

LOAD CASE(S) Standard



April 21,2025

MARNING - 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 overal 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/TP11 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)

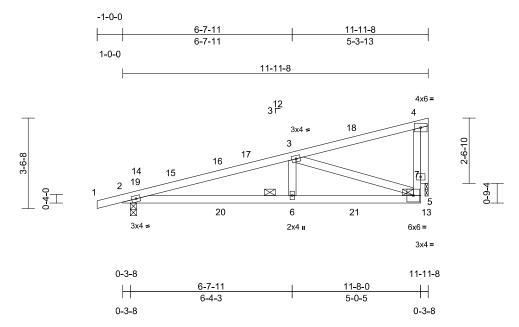


Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Blake Pond Lot 00.0128 Roof | | |
|-------------|-------|------------|-----|-----|-----------------------------|-----------|--|
| 2503-4260-A | C1 | Monopitch | 18 | 1 | Job Reference (optional) | 172872638 | |

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S. Apr 11 2025 Print: 8.830 S. Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 10:56:23 ID:WY?FxoTj5zULCPAyYSi3Oky76QV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:45.1

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.66 | Vert(LL) | -0.11 | 6-12 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.73 | Vert(CT) | -0.16 | 6-12 | >888 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.46 | Horz(CT) | 0.01 | 13 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2021/TPI2014 | Matrix-AS | | Wind(LL) | 0.05 | 6-12 | >999 | 240 | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 54 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP SS BOT CHORD 2x4 SP No.3 WFRS OTHERS 2x4 SP No.3

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied,

> except end verticals 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-0, 13=0-1-8

Max Horiz 2=62 (LC 12)

Max Uplift 2=-91 (LC 12), 13=-75 (LC 12) Max Grav 2=551 (LC 2), 13=473 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/20, 2-3=-1012/347, 3-4=-159/28, TOP CHORD

5-7=-147/439, 4-7=-147/439

BOT CHORD 2-6=-409/953, 5-6=-409/953 **WEBS** 3-6=-67/362, 3-5=-902/382, 4-13=-482/191

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 11-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
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- 5) Plates checked for a plus or minus 5 degree rotation about its center.
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- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
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LOAD CASE(S) Standard



April 21,2025

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818 Soundside Road Edenton, NC 27932