

RE: 4619374

JSJ, Maplewood Prime B (12-26-24)

Site Information:

Customer:JSJ BuildersProject Name:4619374Lot/Block:32Model:Maplewood Prime BAddress:Subdivision:ILAS WAYCity:DunnState:NC

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

Design Code: IRC2015/TPI2014 Wind Code: ASCE 7-10 Roof Load: 40.0 psf

Design Program: MiTek 20/20 8.6 Wind Speed: 130 mph Floor Load: N/A psf

This package includes 18 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal#     | Truss Name | Date      |
|-----|-----------|------------|-----------|
| 1   | 170935384 | A01        | 1/23/2025 |
| 2   | 170935385 | A02        | 1/23/2025 |
| 3   | 170935386 | A03        | 1/23/2025 |
| 4   | 170935387 | A04        | 1/23/2025 |
| 5   | 170935388 | A05        | 1/23/2025 |
| 6   | 170935389 | B01        | 1/23/2025 |
| 7   | 170935390 | B02        | 1/23/2025 |
| 8   | 170935391 | C01        | 1/23/2025 |
| 9   | 170935392 | C02        | 1/23/2025 |
| 10  | 170935393 | C03        | 1/23/2025 |
| 11  | 170935394 | C04        | 1/23/2025 |
| 12  | 170935395 | V01        | 1/23/2025 |
| 13  | 170935396 | V02        | 1/23/2025 |
| 14  | 170935397 | V03        | 1/23/2025 |
| 15  | 170935398 | V04        | 1/23/2025 |
| 16  | 170935399 | V05        | 1/23/2025 |
| 17  | 170935400 | V06        | 1/23/2025 |
| 18  | 170935401 | V07        | 1/23/2025 |

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Sumter,SC.

based on the parameters provided by Builders FirstSource-Sumter,S

Truss Design Engineer's Name: Tony Miller My license renewal date for the state of North Carolina is December 31, 2025

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.



Trenco 818 Soundside Rd Edenton, NC 27932

| Job     | Truss | Truss Type             | Qty | Ply | JSJ, Maplewood Prime B (12-26-24) |           |
|---------|-------|------------------------|-----|-----|-----------------------------------|-----------|
| 4619374 | A01   | Common Supported Gable | 1   | 1   | Job Reference (optional)          | 170935384 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jan 22 10:14:25 ID:YFAsy9mqBrEqN0MGY4iGStzmvGV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



|  |  | 20.0  |  | 1.15   |   |  | 0.10   |  | 170  |                            |  | n/a   | 555  | 101120  |  | 244/100  |  |
|--|--|---|--|--|---|--|--|--|--|----------------------------|--|---|--|---|--|--|--|
| TCDL   |  | 10.0  | Lumber DOL   | 1.15   | BC  |  | 0.18   | Vert(CT)   | n/a  | 1                          | -  | n/a   | 999  |   |  |  |  |
| BCLL   |  | 0.0*  | Rep Stress Incr  | YES  | WB  |  | 0.12   | Horz(CT)   | 0.02   |                            | 24   | n/a   | n/a  |   |  |  |  |
| BCDL   |  | 10.0  | Code   | IRC2015/TPI2014                              | Matrix  | -MS  |  | - (- )   |  |                            |  |   |  | Weight: 286   | lb   | FT = 20%   |  |
| BCDL<br>LUMBER<br>TOP CHORD<br>BOT CHORD<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>REACTIONS | 2x4 SP No<br>2x6 SP No<br>2x4 SP No<br>Structural<br>10-0-0 cc<br>Rigid ceilir<br>bracing.<br>1 Row at r<br>(size) | 10.0<br>10.0<br>10.2<br>10.2<br>10.2<br>10.3<br>wood sheat<br>purlins.<br>ng directly<br>10.2<br>28-31-11-<br>28-31-11-<br>28-31-11-<br>30-31-11-<br>36-31-11-<br>36-31-11-<br>36-31-11-<br>46-31-11-<br>28-38 (LC<br>2864 (LC<br>3056 (LC<br>32=-64 (LC<br>34=-72 (LC<br>37=-29 (LC<br>34=-72 (LC<br>37=-29 (LC<br>45=-217 (LC)<br>45=-217 | Code<br>athing directly applied a<br>applied or 6-0-0 oc<br>13-36, 12-37, 14-35<br>, 24=31-11-0,<br>0, 27=31-11-0,<br>0, 33=31-11-0,<br>0, 35=31-11-0,<br>0, 35=31-11-0,<br>0, 35=31-11-0,<br>0, 37=31-11-0,<br>0, 43=31-11-0,<br>0, 43=31-11-0,<br>0, 43=31-11-0,<br>0, 43=31-11-0,<br>0, 43=31-11-0,<br>0, 43=31-11-0,<br>0, 43=31-11-0,<br>0, 43=31-11-0,<br>0, 43=31-11-0,<br>10, 49=-328 (LC 10),<br>13), 27=-48 (LC 13),<br>13), 33=-62 (LC 13),<br>13), 33=-62 (LC 13),<br>13), 33=-62 (LC 13),<br>13), 35=-32 (LC 13),<br>13), 35=-32 (LC 12),<br>12), 42=-53 (LC 12),<br>12), 44=-36 (LC 12),<br>C 20), 46=-59 (LC 13)<br>20) | IRC2015/TPI2014<br>or<br>FORCES<br>TOP CHORD | Matrix<br>Max Grav<br>(lb) - Ma<br>Tension<br>1-2=0/24<br>4-5=-100<br>10-11=-<br>12-13=-<br>14-15=-<br>16-17=-<br>19-20=-<br>21-22=-<br>23-24=-<br>24-6=-2<br>42-43=-<br>38-39=-<br>33-34=-<br>33-34=-<br>33-34=-<br>27-28=-<br>24-26=- | -MS<br>2=0 (LC<br>26=210<br>28=127<br>30=112<br>32=122<br>34=114<br>36=260<br>38=115<br>40=124<br>42=117<br>44=175<br>46=460<br>ximum Cc<br>3, 2-3=-20<br>3/220, 5-6<br>3/196, 9-11<br>177/230, 1<br>241/306, 1<br>103/220, 2<br>156/247, 2<br>236/284, 2<br>11/273, 4<br>241/273, 4<br>242/274, 3<br>242/274, 3<br>24 | <ul> <li>a), 24=</li> <li>(LC 20),</li> <li>(LC 20),</li> <li>(LC 20),</li> <li>(LC 20),</li> <li>(LC 19),</li> <li>(LC 19),</li> <li>(LC 19),</li> <li>(LC 19),</li> <li>(LC 1),</li> <li>(LC 1)</li></ul> | 125 (LC 24<br>27=83 (LC<br>29=118 (L<br>31=120 (L<br>33=118 (L<br>33=117 (L<br>37=133 (L<br>37=133 (L<br>37=133 (L<br>37=133 (L<br>39=117 (L<br>41=116 (L<br>43=109 (LC 8<br>on/Maximu<br>4=-154/211<br>04,<br>19/280,<br>41/306,<br>77/235,<br>03/215,<br>29/233,<br>81/254,<br>28<br>1/273,<br>41/273,<br>41/273,<br>41/273,<br>41/273,<br>41/273,<br>42/274,<br>42/274,<br>42/274,<br>42/274,<br>42/274,<br>42/274,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/272,<br>40/27 | ),<br>C 20),<br>C 20),<br>C 20),<br>C 20),<br>C 19),<br>C 19),<br>C 19),<br>C 19),<br>C 19),<br>S 8),<br>)<br>m<br>3,<br>92, | WE<br>NO<br>1)<br>2)<br>3) | EBS<br>TTES<br>Unbaa<br>this d<br>Wind:<br>Vasd-<br>Cat. 1<br>zone<br>expos<br>memt<br>Lumb<br>Truss<br>or cor | lanced<br>esign.<br>: ASCE<br>=103m<br>I; Exp<br>and C:<br>sed ; e<br>bers ar<br>er DO<br>desig<br>tandan<br>sult q | 13-36:<br>11-38:<br>8-41=<br>14-35:<br>16-33:<br>18-31:<br>20-29:<br>22-27:<br>1 roof li<br>5 7-10;<br>c; Enc<br>C C; Enc<br>tond veri<br>nd forc<br>L=1.6C<br>ned foi<br>ualifiec | Weight: 286<br>=-234/130, 12<br>=-110/89, 10-3<br>-100/80, 7-42=<br>-105/75, 4-45=<br>=-110/48, 15-3<br>-101/78, 19-3<br>=-101/78, 19-3<br>=-100/78, 21-3<br>=-87/70, 23-26<br>ive loads have<br>ive loads have<br>ivult=130mpf<br>DL=6.0psf; B<br>closed; MWFR<br>D plate grip DC<br>r wind loads in<br>the & MWFRS<br>D plate grip DC<br>r wind loads in<br>stry Gable End<br>d building desi<br>SEE<br>023<br>023<br>023<br>023<br>023<br>023<br>024<br>025<br>025<br>025<br>025<br>025<br>025<br>025<br>025 | Ib         -37=         39=.5         =-95/         34=-7         28=-12         bee         (3-55)         CCD(e)         cant         (13-55)         (14)         (15)         (15)         (16)         (17)         (16)         (17)         (16)         (17)         (16)         (17)         (16)         (17) <th>FT = 20%<br/>-107/45,<br/>99/77, 9-40<br/>71, 6-43=-<br/>87, 3-46=-<br/>110/88,<br/>04/80,<br/>94/72,<br/>102/78,<br/>44/102<br/>In consider<br/>second gus<br/>=6.0psf; h=<br/>nvelope) e<br/>tilever left a<br/>exposed;C-<br/>reactions sl<br/>.60<br/>plane of thr<br/>rmal to the<br/>etails as ap<br/>aş per AN</th> <th>ed for<br/>t)<br/>=-105/79,<br/>100/79,<br/>158/96,<br/>ed for<br/>t)<br/>=25ft;<br/>xterior<br/>and right<br/>C for<br/>hown;<br/>e truss<br/>face),<br/>plicable,<br/>SI/TPI 1.</th> | FT = 20%<br>-107/45,<br>99/77, 9-40<br>71, 6-43=-<br>87, 3-46=-<br>110/88,<br>04/80,<br>94/72,<br>102/78,<br>44/102<br>In consider<br>second gus<br>=6.0psf; h=<br>nvelope) e<br>tilever left a<br>exposed;C-<br>reactions sl<br>.60<br>plane of thr<br>rmal to the<br>etails as ap<br>aş per AN | ed for<br>t)<br>=-105/79,<br>100/79,<br>158/96,<br>ed for<br>t)<br>=25ft;<br>xterior<br>and right<br>C for<br>hown;<br>e truss<br>face),<br>plicable,<br>SI/TPI 1. |
|  |  |   |  |  |   |  |  |  |  |                            |  |   |  |   |  |  |  |

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 property 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 ouclings 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/TPI Quality Criteria and DSE2** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbaccomponents.com) TRENCO

January 23,2025

Page: 1



| Job                              | Truss                   | Truss Type             | Qty            | Ply         | JSJ, Maplewood Prime B (12-26-24)                 |           |
|----------------------------------|-------------------------|------------------------|----------------|-------------|---|-----------|
| 4619374                          | A01                     | Common Supported Gable | 1              | 1           | Job Reference (optional)                          | 170935384 |
| Builders FirstSource (Sumter, SC | C), Sumter, SC - 29153, | Run: 8.63 S Sep 26 2   | 2024 Print: 8. | 630 S Sep 2 | 6 2024 MiTek Industries, Inc. Wed Jan 22 10:14:25 | Page: 2   |

- All plates are 2x4 MT20 unless otherwise indicated. 4)
- 5) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc. 6)
- This truss has been designed for a 10.0 psf bottom 7)
- chord live load nonconcurrent with any other live loads. \* This truss has been designed for a live load of 20.0psf 8) 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. 9) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 2, 62 lb uplift at joint 24, 29 lb uplift at joint 37, 73 lb uplift at joint 38, 61 lb uplift at joint 39, 62 lb uplift at joint 40, 64 lb uplift at joint 41, 53 lb uplift at joint 42, 69 lb uplift at joint 43, 36 lb uplift at joint 44, 217 lb uplift at joint 45, 59 lb uplift at joint 46, 32 lb uplift at joint 35, 72 Ib uplift at joint 34, 61 lb uplift at joint 33, 64 lb uplift at joint 32, 62 lb uplift at joint 31, 56 lb uplift at joint 30, 62 Ib uplift at joint 29, 64 lb uplift at joint 28, 48 lb uplift at joint 27, 99 lb uplift at joint 26 and 1 lb uplift at joint 2.

LOAD CASE(S) Standard

Run; 8.63 S Sep 26 2024 Print; 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jan 22 10:14:25 ID:YFAsy9mqBrEqN0MGY4iGStzmvGV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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| Job     | Truss | Truss Type | Qty | Ply | JSJ, Maplewood Prime B (12-26-24) |           |
|---------|-------|------------|-----|-----|-----------------------------------|-----------|
| 4619374 | A02   | Common     | 5   | 1   | Job Reference (optional)          | 170935385 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jan 22 10:14:26 ID:xL?soJkaydZlkQQImzbAl2zmvBN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



# Plate Offsets (X, Y): [10:0-5-0,0-4-8], [12:0-5-0,0-4-8]

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |  |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|--|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.15            | тс        | 0.84 | Vert(LL) | -0.13 | 10-16 | >999   | 360 | MT20           | 244/190  |  |
| TCDL        | 10.0  | Lumber DOL      | 1.15            | BC        | 0.72 | Vert(CT) | -0.33 | 10-16 | >584   | 240 |                |          |  |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB        | 0.73 | Horz(CT) | 0.05  | 8     | n/a    | n/a |                |          |  |
| BCDL        | 10.0  | Code            | IRC2015/TPI2014 | Matrix-MS |      | Wind(LL) | 0.19  | 12-14 | >999   | 240 | Weight: 179 lb | FT = 20% |  |

LUMBER

|           | 2V4 CD N   | <u> </u>                          |
|-----------|------------|-----------------------------------|
| TOP CHORD | 2X4 3P IN  | 0.2                               |
| BOT CHORD | 2x6 SP N   | 0.2                               |
| WEBS      | 2x4 SP N   | 0.3                               |
| BRACING   |            |                                   |
| TOP CHORD | Structura  | wood sheathing directly applied.  |
| BOT CHORD | Rigid ceil | ing directly applied or 9-10-6 oc |
|           | bracing.   |                                   |
| REACTIONS | (size)     | 2=0-3-8, 8=0-3-8, 11=0-3-8        |
|           | Max Horiz  | 2=328 (LC 11)                     |
|           | Max Uplift | 2=-359 (LC 12), 8=-362 (LC 13)    |
|           | Max Grav   | 2=1246 (LC 1), 8=1246 (LC 1),     |
|           |            | 11=318 (LC 19)                    |
| FORCES    | (lb) - Max | imum Compression/Maximum          |
|           | Tension    |                                   |
| TOP CHORD | 1-2=0/28,  | 2-3=-1854/673, 3-5=-1804/750,     |
|           | 5-7=-1803  | 3/749, 7-8=-1854/673, 8-9=0/28    |
| BOT CHORD | 2-11=-504  | 4/1630, 8-11=-418/1519            |
| WEBS      | 5-12=-328  | 8/790, 3-12=-563/428,             |

#### NOTES

1) Unbalanced roof live loads have been considered for this design.

5-10=-332/789, 7-10=-563/428

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 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, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

# 6) Provide mechanical connection (by others) of truss to

bearing plate capable of withstanding 359 lb uplift at

joint 2 and 362 lb uplift at joint 8.

LOAD CASE(S) Standard



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| Job     | Truss | Truss Type | Qty | Ply | JSJ, Maplewood Prime B (12-26-24) |           |
|---------|-------|------------|-----|-----|-----------------------------------|-----------|
| 4619374 | A03   | Common     | 6   | 1   | Job Reference (optional)          | 170935386 |





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17

# Plate Offsets (X, Y): [1:Edge,0-0-4], [11:0-3-4,0-3-8]

| <b>_oading</b><br>FCLL (roof)<br>FCDL<br>BCLL<br>BCDL                         | (psf)<br>20.0<br>10.0<br>0.0*<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code                            | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2015 | 5/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-MS   | 0.83<br>0.66<br>0.61  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>Wind(LL)   | in<br>-0.12<br>-0.29<br>0.04<br>0.16 | (loc)<br>9-16<br>9-16<br>7<br>9-16 | l/defl<br>>999<br>>660<br>n/a<br>>999 | L/d<br>360<br>240<br>n/a<br>240 | PLATES<br>MT20<br>Weight: 200 lb | <b>GRIP</b><br>244/190<br>FT = 20% |  |
|---|---|---|---|--|--|---|--|--------------------------------------|------------------------------------|---------------------------------------|---------------------------------|----------------------------------|------------------------------------|--|
| LUMBER<br>FOP CHORD<br>30T CHORD<br>WEBS<br>BRACING<br>FOP CHORD<br>30T CHORD | 2x4 SP No.2<br>2x6 SP No.2<br>2x4 SP No.3<br>Structural wood she<br>2-2-0 oc purlins.<br>Rigid ceiling directly<br>bracing. | athing directly applie<br>applied or 10-0-0 o   | 5)<br>6)<br>7)<br>ed or<br>c <b>LO</b>  | Bearings are<br>crushing cap<br>capacity of 5/<br>Refer to girde<br>Provide mecl<br>bearing plate<br>joint 1, 317 lb<br>AD CASE(S) | assumed to be: , ,<br>acity of 565 psi, Jc<br>65 psi.<br>er(s) for truss to tru-<br>hanical connection<br>capable of withsta<br>o uplift at joint 7 an<br>Standard | Joint 10<br>bint 7 SF<br>uss conr<br>(by oth<br>anding 2<br>d 92 lb | SP No.2<br>No.2 crushin<br>nections.<br>ers) of truss to<br>77 lb uplift at<br>uplift at joint 1 | ng<br>D<br>0.                        |                                    |                                       |                                 |                                  |                                    |  |
| REACTIONS   | (size) 1= Mecha<br>Max Horiz 1=-322 (L<br>Max Uplift 1=-277 (L<br>10=-92 (L<br>Max Grav 1=1035 (L<br>10=565 (L              | nical, 7=0-3-8, 10=(<br>C 8)<br>C 12), 7=-317 (LC 1<br>C 12)<br>_C 1), 7=1097 (LC 1<br>_C 19) | )-3-8<br> 3),<br>),                     |  |  |   |  |                                      |                                    |                                       |                                 |                                  |                                    |  |
| ORCES   | (lb) - Maximum Com<br>Tension   | pression/Maximum  |   |  |  |   |  |                                      |                                    |                                       |                                 |                                  |                                    |  |
| FOP CHORD   | 1-2=-1579/550, 2-4=<br>4-6=-1526/616, 6-7=  | 1479/604,<br>1620/562, 7-8=0/2  | 8                                       |  |  |   |  |                                      |                                    |                                       |                                 |                                  |                                    |  |
| BOT CHORD<br>WEBS   | 1-10=-430/1412, 7-1<br>4-11=-259/579, 2-11<br>4-9=-275/648, 6-9=-   | 0=-324/1320<br>=-547/422,<br>559/426  |   |  |  |   |  |                                      |                                    |                                       |                                 |                                  | <u>ц</u> .,                        |  |
| NOTES<br>I) Unbalance   | ed roof live loads have   | been considered fo  | r                                       |  |  |   |  |                                      |                                    |                                       | S                               | "TH CA                           | RO                                 |  |

- this design. Wind: ASCE 7-10; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.
- 4) \* 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, with BCDL = 10.0psf.

"monore and and annun nun SEAL 023594 R. MI munn January 23,2025

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/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **PCB Building Component Scietus Information**, and the from the Structure Building Component Advance interport of the property damage. and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



| Job     | Truss | Truss Type | Qty | Ply | JSJ, Maplewood Prime B (12-26-24) |           |
|---------|-------|------------|-----|-----|-----------------------------------|-----------|
| 4619374 | A04   | Common     | 6   | 1   | Job Reference (optional)          | 170935387 |

Run; 8.63 S Sep 26 2024 Print; 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jan 22 10:14:27

Page: 1 ID:a?RYE\_QyarRFH35tUSY9Utzmv5J-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 32-6-8 8-0-9 15-8-0 23-3-7 31-7-8 0-11-0 8-0-9 7-7-7 7-7-7 8-4-1 4x6 **I** 4 12 71 2x4 / 3x6 🖌 3x6 2x4 " 5 3 2 6 10-2-3 8-4 6-9--4-9 ∏ 8 • 11 17 10 18 9 3x6= 3x8= 4x6= 4x6= 4x6 =10-3-12 21-0-4 31-7-8 10-3-12 10-8-8 10-7-4 Scale = 1:62.6 Loading 2-0-0 CSI DEFL in l/defl L/d PLATES GRIP (psf) Spacing (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.90 Vert(LL) -0.20 9-11 >999 360 MT20 244/190

BCDL 11

TCDI

BCLL

| LUWBER    |             |
|-----------|-------------|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x6 SP No.2 |
| WEBS      | 2v4 SP No 3 |

V BRACING TOP CHORD Structural wood sheathing directly applied. Rigid ceiling directly applied or 10-0-0 oc BOT CHORD bracing. REACTIONS (size) 1= Mechanical, 7=0-3-8 Max Horiz 1=-322 (LC 8) Max Uplift 1=-323 (LC 12), 7=-357 (LC 13) Max Grav 1=1287 (LC 19), 7=1344 (LC 20) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-2025/668, 2-4=-1927/744, 4-6=-1973/756, 6-7=-2068/679, 7-8=0/28 BOT CHORD 1-11=-490/1881, 9-11=-148/1205, 7-9=-424/1678 WEBS 4-11=-314/914 2-11=-543/423

10.0

10.0

0.0\*

Lumber DOL

Code

Rep Stress Incr

4-9=-329/984, 6-9=-558/428

NOTES

Unbalanced roof live loads have been considered for 1) this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical 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 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, with BCDL = 10.0psf.
- 5) Bearings are assumed to be: , Joint 7 SP No.2 crushing capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 323 lb uplift at joint 1 and 357 lb uplift at joint 7. LOAD CASE(S) Standard

0.71

0.72

Vert(CT)

Horz(CT)

Wind(LL)

-0.30

0.05

0.16

9-11

9-16

7

>999

>999

240

n/a n/a

240

Weight: 176 lb

FT = 20%

BC

WB

Matrix-MS

1 15

YES

IRC2015/TPI2014



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| Job     | Truss | Truss Type             | Qty | Ply | JSJ, Maplewood Prime B (12-26-24) |           |
|---------|-------|------------------------|-----|-----|-----------------------------------|-----------|
| 4619374 | A05   | Common Supported Gable | 1   | 1   | Job Reference (optional)          | 170935388 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jan 22 10:14:27 ID:8W9RimTznmkG21WMuR4oqWzmv2g-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:61.5

#### Plate Offsets (X, Y): [7:0-3-0,0-3-0], [17:0-3-0,0-3-0], [35:0-5-0,0-4-8]

| Loading<br>TCLL (roof)         (psf)         Spacing<br>Plate Grip DOL         2-0-0<br>Flate Grip DOL         CSI         DEFL         in         (loc)         //deft         L/d         PLATES         GRIP           TCDL         10.0         Rep Stress Incr         YES         BC         0.05         Vert(CT)         n/a         999         MT20         244/190           BCDL         10.0         Rep Stress Incr         YES         BC         0.05         Vert(CT)         n/a         999         MT20         244/190           LUMBER         10.0         Code         IRC2015/TPI2014         Matrix-MS         Matrix-MS         Veright: 283 Ib         FT = 20%           LUMBER         526216 (LC 20), 28-810 (LC 20), 38-118 (LC 19), 33-1122 (LC 19, 34-114 (LC 20), 31-1122 (LC 19), 34-114 (LC 20), 31-1122 (LC 19), 44-114 (LC 10), 31-1122 (LC 19), 44-114 (LC 19), 31-1122 (LC 19), 44-114 (LC 19), 31-1122 (LC 19), 44-114 (LC 19), 31-112 (LC 19), 41-114 (LC 19), 31-112 (LC 19), 41-114 (LC 19),   |   |   |   |   |  |  |  |  |                          |  |   |  |   |   |
|---|---|---|---|---|--|--|--|--|--------------------------|--|---|--|---|---|
| $ \begin{array}{llllllllllllllllllllllllllllllllllll$   | Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL<br>LUMBER<br>TOP CHORD | (psf)<br>20.0<br>10.0<br>0.0*<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2015/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-MS<br>Max Grav 1=152<br>25=21  | 0.08<br>0.05<br>0.12<br>2 (LC 20), 2<br>4 (LC 20),                               | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>23=161 (LC 1<br>26=80 (LC 2          | in<br>n/a<br>n/a<br>0.01<br>1),<br>20),      | (loc)<br>-<br>23<br>WEBS | l/defl<br>n/a<br>n/a<br>n/a  | L/d<br>999<br>999<br>n/a<br>12-35<br>10-37  | PLATES<br>MT20<br>Weight: 283 lt<br>=-199/130, 11-3<br>=-110/86, 9-38=   | <b>GRIP</b><br>244/190<br>• FT = 20%<br>36=-97/54,<br>=-99/77, 8-39:  | =-104/80,   |
| Webs       1 Row at midpt       12-35, 11-36, 13-34       39=123 (LC 19), 40=118 (LC 19), 41=114 (LC 19), 41=112 (LC 19), 41=114 (LC 19), 41=114 (LC 19), 41=114 (LC 19), 41=112 (LC 19), 41=114 (LC 19), 41=114 (LC 19), 41=112 (LC                            | BOT CHORD<br>OTHERS<br>BRACING<br>TOP CHORD                           | <ul> <li>2x6 SP No.2</li> <li>2x4 SP No.3</li> <li>Structural wood she</li> <li>6-0-0 oc purlins.</li> <li>Bigid coiling directly</li> </ul>  | eathing directly applied  | d or  | 27=12<br>29=11<br>31=12<br>33=12<br>35=20<br>37=11   | 8 (LC 20),<br>4 (LC 20),<br>2 (LC 20),<br>1 (LC 20),<br>6 (LC 13),<br>8 (LC 19), | 28=117 (LC<br>30=119 (LC<br>32=118 (LC<br>34=116 (LC<br>36=124 (LC<br>38=118 (LC | 20),<br>20),<br>20),<br>20),<br>19),<br>19), |                          |  | 7-40=<br>4-43=<br>13-34<br>16-31<br>18-29<br>20-27  | -100/78, 6-41=-<br>-102/79, 3-44=-<br>=-89/46, 14-33=<br>=-104/80, 17-30<br>=-94/72, 19-28=<br>=-102/78, 21-26   | 94/72, 5-42=-<br>87/67, 2-45=-<br>-110/89, 15-3<br>)=-100/78,<br>-100/78,<br>5=-87/70,  | ·100/78,<br>·140/108,<br>32=-99/77,   |
| 1201 F 201 F 7-8, 22 = 31 - 7-8, 28 = 31 - 7-8, 28 = 31 - 7-8, 30 = 31 - 7-8, 31 = 31 - 7-8, 32 = 31 - 7-8, 33 = 31 - 7-8, 32 = 31 - 7-8, 33 = 31 - 7-8, 33 = 31 - 7-8, 33 = 31 - 7-8, 34 = 31 - 7-8, 35 = 31 - 7-8, 36 = 31 - 7-8, 46 = 31 - 7-8, 45 = 31 - 7-8, 45 = 31 - 7-8, 45 = 31 - 7-8, 45 = 31 - 7-8, 45 = 31 - 7-8, 45 = 31 - 7-8, 45 = 31 - 7-8, 45 = 31 - 7-8, 45 = 31 - 7-8, 45 = 31 - 7-8, 45 = 31 - 7-8, 45 = 31 - 7-8, 45 = 31 - 7-8, 46 = 31 - 7-8, 45 = 31 - 7-8, 46 = 31 - 7-8, 45 | WEBS  | <ul> <li>Rigid ceiling directly bracing.</li> <li>1 Row at midpt</li> <li>(size) 1-31-7-8</li> </ul>  | 2 applied or 10-0-0 oc<br>12-35, 11-36, 13-34<br>23-31-7-8, 25-31-7-  | -8  | 39=12<br>41=11<br>43=12  | 23 (LC 19),<br>4 (LC 19),<br>9 (LC 19),  | 40=118 (LC<br>42=117 (LC<br>44=75 (LC 1  | 19),<br>19),<br>19),<br>I),                  | NOTE:<br>1) Ur           | <b>S</b><br>Ibalanced  | 22-25<br>d roof li  | =-144/102  | been conside  | red for   |
| 31=-64 (LC 13), 32=-61 (LC 13),       43-44=-170/261, 42-43=-170/261,         33=-73 (LC 13), 34=-30 (LC 13),       43-44=-170/261, 42-43=-170/261,         36=-38 (LC 12), 37=-70 (LC 12),       41-42=-170/261, 40-41=-170/261,         38=-61 (LC 12), 39=-64 (LC 12),       39-40=-172/261, 38-39=-172/261,         40=-62 (LC 12), 41=-56 (LC 12),       37-38=-172/261, 36-37=-172/261,         42=-60 (LC 12), 43=-69 (LC 12),       32-33=-172/261, 31-32=-172/261,         44=-28 (LC 12), 45=-145 (LC 12),       30-31=-172/261, 29-30=-170/260,         46=-69 (LC 10)       28-29=-170/260,         28-29=-170/260,       27-28=-170/260,         023594  |   | (size) 1=31-7-8<br>26=31-7-<br>29=31-7-<br>32=31-7-<br>35=31-7-<br>35=31-7-<br>35=31-7-<br>41=31-7-<br>41=31-7-<br>41=31-7-<br>41=31-7-<br>41=31-7-<br>41=31-7-<br>41=31-7-<br>(12599 (L)<br>27=-64 (L)<br>27=-64 (L)<br>29=-56 (L)<br>29=-56 (L)<br>31=-64 (L)<br>33=-73 (L)<br>36=-38 (L)<br>36=-38 (L)<br>36=-38 (L)<br>36=-38 (L)<br>36=-38 (L)<br>36=-38 (L)<br>36=-69 (L)<br>36=-76 ( | (2) = 31-7-6, 22=31-7-8, 28=31-7-8, 28=31-7-8, 31=31-7-8, 31=31-7-8, 33=31-7-8, 33=31-7-8, 33=31-7-8, 33=31-7-8, 33=31-7-8, 33=31-7-8, 46=31-7-8, 46=31-7-8, 46=-322 (LC 8) $(2) = 22 + 22 + 22 + 22 + 22 + 22 + 22 + $ | <ul> <li>-7-8,<br/>7-8,<br/>7-8,</li> <li>7-8,</li> <li>7-8,</li> <li>7-8,</li> <li>7-8,</li> <li>8),</li> <li>9),</li> <li>8),</li> <li>80,</li> <li>80,<td colspan="5"><math display="block">\begin{array}{r} 45=\!229(LC19),46=\!152(LC20)\\ (lb) - Maximum Compression/Maximum Tension\\ D1-2=-287/224,2-3=-221/193,3-4=-195/181,4-5=-169/163,5-6=-155/151,6-8=-143/170,8-9=-140/198,9-10=-177/224,10-11=-218/256,11-12=-240/284,12-13=-240/284,13-14=-218/2566,14-15=-177/207,15-16=-140/163,16-18=-102/117,18-19=-60/611,19-20=-78/69,20-21=-115/86,21-22=-158/99,22-23=-221/156,23-24=0/28\\ D1-45=-170/261,44-45=-170/261,43-44=-170/261,43-44=-170/261,42-43=-170/261,43-44=-170/261,33-34=-172/261,33-34=-172/261,37-38=-172/261,33-34=-172/261,33-34=-172/261,33-34=-172/261,33-34=-172/261,33-34=-172/261,33-34=-172/261,33-34=-172/261,33-34=-172/261,30-31=-172/261,31-32=-172/261,30-31=-172/261,31-32=-172/261,30-31=-172/261,30-31=-172/261,30-31=-170/260,28-29=-170/</math></td><td>s design.<br/>ind: ASCI<br/>isd=103m<br/>at. II; Exp<br/>ne and C<br/>posed ; e<br/>embers ai<br/>mber DO<br/>uss desig<br/>ly. For st<br/>e Standa<br/>consult q</td><td>E 7-10;<br/>hph; TC<br/>C; Enc<br/>-C Exte-<br/>nd veri-<br/>nd forc<br/>L=1.60<br/>ned for<br/>tuds ex<br/>rd Indu<br/>jualified</td><td>Vult=130mph (<br/>DL=6.0psf; BC<br/>closed; MWFRS<br/>erior (2) zone; c<br/>tical left and rigi<br/>es &amp; MWFRS fr<br/>) plate grip DOL<br/>r wind loads in t<br/>sposed to wind (<br/>isstry Gable End<br/>d building tlesig</td><td>3-second gus<br/>DL=6.0psf; h:<br/>(envelope) e<br/>antilever left :<br/>the exposed;C-<br/>pr reactions s<br/>=1.60<br/>he plane of th<br/>normal to the<br/>Details as ap<br/>her as per AN</td><td>st)<br/>=25ft;<br/>exterior<br/>and right<br/>-C for<br/>hown;<br/>he truss<br/>face),<br/>pplicable,<br/>tSI/TPI 1.</td></li></ul> | $\begin{array}{r} 45=\!229(LC19),46=\!152(LC20)\\ (lb) - Maximum Compression/Maximum Tension\\ D1-2=-287/224,2-3=-221/193,3-4=-195/181,4-5=-169/163,5-6=-155/151,6-8=-143/170,8-9=-140/198,9-10=-177/224,10-11=-218/256,11-12=-240/284,12-13=-240/284,13-14=-218/2566,14-15=-177/207,15-16=-140/163,16-18=-102/117,18-19=-60/611,19-20=-78/69,20-21=-115/86,21-22=-158/99,22-23=-221/156,23-24=0/28\\ D1-45=-170/261,44-45=-170/261,43-44=-170/261,43-44=-170/261,42-43=-170/261,43-44=-170/261,33-34=-172/261,33-34=-172/261,37-38=-172/261,33-34=-172/261,33-34=-172/261,33-34=-172/261,33-34=-172/261,33-34=-172/261,33-34=-172/261,33-34=-172/261,33-34=-172/261,30-31=-172/261,31-32=-172/261,30-31=-172/261,31-32=-172/261,30-31=-172/261,30-31=-172/261,30-31=-170/260,28-29=-170/$ |  |  |  |                          | s design.<br>ind: ASCI<br>isd=103m<br>at. II; Exp<br>ne and C<br>posed ; e<br>embers ai<br>mber DO<br>uss desig<br>ly. For st<br>e Standa<br>consult q | E 7-10;<br>hph; TC<br>C; Enc<br>-C Exte-<br>nd veri-<br>nd forc<br>L=1.60<br>ned for<br>tuds ex<br>rd Indu<br>jualified | Vult=130mph (<br>DL=6.0psf; BC<br>closed; MWFRS<br>erior (2) zone; c<br>tical left and rigi<br>es & MWFRS fr<br>) plate grip DOL<br>r wind loads in t<br>sposed to wind (<br>isstry Gable End<br>d building tlesig | 3-second gus<br>DL=6.0psf; h:<br>(envelope) e<br>antilever left :<br>the exposed;C-<br>pr reactions s<br>=1.60<br>he plane of th<br>normal to the<br>Details as ap<br>her as per AN | st)<br>=25ft;<br>exterior<br>and right<br>-C for<br>hown;<br>he truss<br>face),<br>pplicable,<br>tSI/TPI 1. |

January 23,2025

Page: 1

| ontinued. | on | nage | 2 |  |
|-----------|----|------|---|--|

tinued 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/TPI1 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                              | Truss                   | Truss Type                  | Qty           | Ply         | JSJ, Maplewood Prime B (12-26-24)                 |           |
|----------------------------------|-------------------------|-----------------------------|---------------|-------------|---|-----------|
| 4619374                          | A05                     | 05 Common Supported Gable 1 |               | 1           | Job Reference (optional)                          | 170935388 |
| Builders FirstSource (Sumter, SO | C), Sumter, SC - 29153. | Run: 8.63 S Sep 26 2        | 2024 Print: 8 | 630 S Sep 2 | 6 2024 MiTek Industries, Inc. Wed Jan 22 10:14:27 | Page: 2   |

ID:8W9RimTznmkG21WMuR4oqWzmv2g-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

All plates are 2x4 MT20 unless otherwise indicated. 4)

Gable requires continuous bottom chord bearing. 5)

- Gable studs spaced at 1-4-0 oc. 6)
- This truss has been designed for a 10.0 psf bottom 7)
- chord live load nonconcurrent with any other live loads. \* This truss has been designed for a live load of 20.0psf 8) 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. 9) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 1, 38 lb uplift at joint 36, 70 lb uplift at joint 37, 61 lb uplift at joint 38, 64 lb uplift at joint 39, 62 lb uplift at joint 40, 56 lb uplift at joint 41, 60 lb uplift at joint 42, 69 lb uplift at joint 43, 28 lb uplift at joint 44, 145 lb uplift at joint 45, 30 lb uplift at joint 34, 73 lb uplift at joint 33, 61 Ib uplift at joint 32, 64 lb uplift at joint 31, 62 lb uplift at joint 30, 56 lb uplift at joint 29, 62 lb uplift at joint 28, 64 Ib uplift at joint 27, 48 lb uplift at joint 26, 99 lb uplift at joint 25, 9 lb uplift at joint 23 and 69 lb uplift at joint 1.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 46.

LOAD CASE(S) Standard

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/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and PCB Building Component Science Michael Component Advancement description (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



| Job     | Truss | Truss Type             | Qty | Ply | JSJ, Maplewood Prime B (12-26-24) |           |
|---------|-------|------------------------|-----|-----|-----------------------------------|-----------|
| 4619374 | B01   | Common Supported Gable | 1   | 1   | Job Reference (optional)          | 170935389 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jan 22 10:14:27 ID:d2LxIAWvWBZ3NF4twVdzJezmv1K-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



#### Scale = 1:61.3

#### Plate Offsets (X, Y): [7:0-3-0,0-3-0], [15:0-3-0,0-3-0], [33:0-1-8,0-2-0]

| Loading     |            | (psf)                  | Spacing  | 2-0-0       |               | CSI                                  |                    | DEFL                      | in           | (lc                  | bc) I   | l/defl    | L/d    | PLATES             | GRIP           |            |
|-------------|------------|------------------------|--|-------------|---------------|--------------------------------------|--------------------|---------------------------|--------------|----------------------|---------|-----------|--------|--------------------|----------------|------------|
| TCLL (roof) |            | 20.0                   | Plate Grip DOL   | 1.15        |               | TC                                   | 0.08               | Vert(LL)                  | n/a          |                      | -       | n/a       | 999    | MT20               | 244/190        |            |
| TCDL        |            | 10.0                   | Lumber DOL   | 1.15        |               | BC                                   | 0.05               | Vert(CT)                  | n/a          |                      | -       | n/a       | 999    |                    |                |            |
| BCLL        |            | 0.0*                   | Rep Stress Incr  | YES         |               | WB                                   | 0.12               | Horz(CT)                  | 0.01         | :                    | 20      | n/a       | n/a    |                    |                |            |
| BCDL        |            | 10.0                   | Code   | IRC20       | 015/TPI2014   | Matrix-MS                            |                    |                           |              |                      |         |           |        | Weight: 224 lb     | FT = 20%       |            |
|             |            |                        |  |             |               |                                      |                    |                           |              | <b>a</b> )           | -       |           |        |                    |                |            |
| LUMBER      |            | _                      |  |             | FORCES        | (Ib) - Maximum Co                    | ompressi           | on/Maximum                |              | 3)                   | Iruss   | desigr    | ned to | r wind loads in th | e plane of th  | e truss    |
| TOP CHORD   | 2x4 SP N   | 0.2                    |  |             |               |                                      | 0/007 0            | 4 070/000                 |              |                      | oniy.   | For st    | uas ex | kposed to wind (r  | formal to the  | tace),     |
| BOICHORD    | 2x6 SP N   | 0.2                    |  |             | TOP CHORD     | 1-2=0/33, 2-3=-33                    | 0/227, 3<br>167/16 | -4 = -276/203             | 20           |                      | see 5   | anuar     | a mat  | d building decign  | Jetalis as ap  |            |
| OTHERS      | 2x4 SP N   | 0.3                    |  |             |               | 4-5=-211/179, 5-0<br>8-9-129/177 9-1 |                    | 00, 0-0=-144/1<br>220     | 39,          | 4)                   |         | isuit yi  |        | MT20 unless oth    | er as per AN   | SI/TFTT.   |
| BRACING     | _          |                        |  |             |               | 10-11-218/254 1                      | 1-122              | .20,<br>18/254            |              | <del>4</del> )<br>5) | Cable   |           | - 214  | ntinuous bottom    | chord bearin   | a.eu.<br>a |
| TOP CHORD   | Structura  | l wood shea            | athing directly applied                                    | d or        |               | 12-13=-186/213 1                     | 3-14=-1            | 29/145                    |              | 6)                   | Gable   | s etude   | snace  | ad at 1-4-0 oc     | chord bearing  | y.         |
|             | 6-0-0 oc p | purlins.               |  |             |               | 14-16=-75/87 16-                     | 17=-95/7           | '9                        |              | 7)                   | This ti | ruse ha   | space  | n designed for a   | 10 0 nef hot   | tom        |
| BOICHORD    | Rigid cell | ing directly           | applied of 10-0-0 oc                                       |             |               | 17-18=-159/103.1                     | 8-19=-2            | 24/148.                   |              | • /                  | chord   | live lo   | ad no  | nconcurrent with   | any other liv  | e loads    |
| WEDO        | 1 Pow of   | midnt                  | 11 20 10 21 12 20  |             |               | 19-20=-287/202, 2                    | 20-21=0/           | 33                        |              | 8)                   | * This  | truss     | has be | een designed for   | a live load of | f 20.0psf  |
|             | I ROW at   |                        | 11-30, 10-31, 12-29  | 0           | BOT CHORD     | 2-39=-192/291, 38                    | 8-39=-19           | 2/291,                    |              | -,                   | on the  | e botto   | m cho  | rd in all areas wh | nere a rectan  | ale        |
| REACTIONS   | (size)     | 2=24-3-0,              | 20=24-3-0, 22=24-3-  | -0,         |               | 37-38=-192/291, 3                    | 86-37=-1           | 92/291,                   |              |                      | 3-06-0  | 00 tall   | by 2-0 | 0-00 wide will fit | between the    | bottom     |
|             |            | 23=24-3-0              | ), 24=24-3-0, 25=24-                                       | 3-0,        |               | 35-36=-192/291, 3                    | 84-35=-1           | 96/293,                   |              |                      | chord   | and a     | ny oth | er members.        |                |            |
|             |            | 20=24-3-0              | ), 27=24-3-0, 20=24-3                                      | 3-0,<br>3-0 |               | 32-34=-196/293, 3                    | 31-32=-1           | 96/293,                   |              | 9)                   | All be  | arings    | are as | ssumed to be SP    | No.2 crushir   | ng         |
|             |            | 32=24-3-0              | ) 34=24-3-0 35=24-   | 3-0,<br>3-0 |               | 30-31=-196/293, 2                    | 29-30=-1           | 96/293,                   |              |                      | capac   | city of 5 | 65 ps  | si.                |                |            |
|             |            | 36=24-3-0              | ), 37=24-3-0, 38=24-3                                      | 3-0.        |               | 28-29=-196/293, 2                    | 27-28=-1           | 96/293,                   |              |                      |         |           |        |                    |                |            |
|             |            | 39=24-3-0              | , 40=24-3-0, 43=24-3                                       | 3-0         |               | 26-27=-196/293, 2                    | 25-26=-1           | 92/289,                   |              |                      |         |           |        |                    |                |            |
|             | Max Horiz  | 2=-326 (L              | C 10), 40=-326 (LC 1                                       | 0)          |               | 24-25=-192/289, 2                    | 23-24=-1           | 92/289,                   |              |                      |         |           |        |                    |                |            |
|             | Max Uplift | 2=-92 (LC              | 8), 20=-42 (LC 9),   | ,           | WEDO          | 22-23=-192/289, 2                    | 0.21 1             | 92/289                    |              |                      |         |           |        |                    |                |            |
|             |            | 22=-109 (              | LC 13), 23=-68 (LC 1                                       | 3),         | WED3          | $0_{32} = 122/102 8^{-1}$            | 34-120             | 01/00,<br>/00 7-3511'     | 2/01         |                      |         |           |        |                    |                |            |
|             |            | 24=-81 (L              | C 13), 25=-64 (LC 13                                       | 5),         |               | 6-3699/81 5-37                       | 114/9F             | 33,7-33112/0<br>4-38112/0 | 2/34,        |                      |         |           |        |                    |                |            |
|             |            | 26=-78 (L              | C 13), 27=-82 (LC 13                                       | 5),         |               | 3-39=-116/92 12-                     | 29=-93/6           | 5, 4 00= 112/3<br>51      | · <b>∠</b> , |                      |         |           |        |                    |                |            |
|             |            | 28=-88 (L              | C 13), 29=-45 (LC 13                                       | 5),         |               | 13-28=-122/104.1                     | 4-27=-1            | 20/99.                    |              |                      |         |           |        |                    | 1111           |            |
|             |            | 31=-52 (L              | C 12), 32=-86 (LC 12                                       | 2),         |               | 15-26=-112/94, 16                    | 6-25=-99           | /81,                      |              |                      |         |           |        | WITH UA            | ROU            |            |
|             |            | 34=-83 (L)             | C 12), 35=-78 (LC 12                                       | <u>?),</u>  |               | 17-24=-114/95, 18                    | 8-23=-11           | 2/93,                     |              |                      |         |           | N      | A                  | in La          | 11.        |
|             |            | 36=-64 (L              | C 12), 37=-81 (LC 12                                       | <u>(),</u>  |               | 19-22=-116/91                        |                    |                           |              |                      |         |           | 32     | U if ESS           | ON             | 12         |
|             |            | 30=-00 (L)             | C = 12, $39 = -110$ (LC = 1<br>C = 12, $39 = -12$ (LC = 1) | 2),         | NOTES         |                                      |                    |                           |              |                      |         | -         | : >    | 12. 1              | 11.2           |            |
|             | Max Gray   | 40=-92 (L)             | C 0), 43=-42 (LC 9)  | `           | 1) Unbalanced | d roof live loads hav                | /e been            | considered for            | r            |                      |         | -         | 1      | A . /              | man.           |            |
|             | wax Grav   | 2=194 (LC<br>22=132 /I | C 20) 23-120 (LC 22  | ),<br>())   | this design.  |                                      |                    |                           |              |                      |         | =         | :      | SEA                | a 1            |            |
|             |            | 24=125 (L              | C 20), 25=120 (LC 2  | 0)          | 2) Wind: ASC  | E 7-10; Vult=130mp                   | oh (3-seo          | cond gust)                |              |                      |         | =         |        |                    | .L.            |            |
|             |            | 26=123 (L              | .C 20), 27=130 (LC 2                                       | 0).         | Vasd=103n     | nph; TCDL=6.0psf;                    | BCDL=6             | 0.0psf; h=25ft;           |              |                      |         | Ξ         |        | 0235               | 94             |            |
|             |            | 28=124 (L              | .C 20), 29=120 (LC 2                                       | 0),         | Cat. II; Exp  | C; Enclosed; MWF                     | RS (env            | elope) exterio            | r            |                      |         | -         |        | :                  |                |            |
|             |            | 30=222 (L              | .C 13), 31=128 (LC 1                                       | 9),         | zone and C    | -C Exterior (2) zone                 | e; cantile         | ver left and right        | ght          |                      |         |           |        | N                  | · ·            | -          |
|             |            | 32=122 (L              | .C 19), 34=130 (LC 1                                       | 9),         | exposed ; e   | end vertical left and                | right exp          | osed;C-C for              |              |                      |         |           | 2.     | X SNOW             | EEK. O         | 5          |
|             |            | 35=123 (L              | .C 19), 36=112 (LC 1                                       | 9),         | members a     | na torces & MWFR                     | S for rea          | ctions snown;             | ;            |                      |         |           | 11     | OA                 | 1. 8           | 5          |
|             |            | 37=126 (L              | .C 19), 38=118 (LC 1                                       | 9),         | Lumber DC     | L=1.60 plate grip L                  | UL=1.60            | J                         |              |                      |         |           |        | INY P              | MILLIN         |            |
|             |            | 39=139 (L              | .C 19), 40=194 (LC 2                                       | 1),         |               |                                      |                    |                           |              |                      |         |           |        | The star           | in the second  |            |
|             |            | 43=167 (L              | .C 22)   |             |               |                                      |                    |                           |              |                      |         |           |        | lonuar             | 102 2025       |            |
|             |            |                        |  |             |               |                                      |                    |                           |              |                      |         |           |        | January            | y 23,2025      | 1          |

Continued on page 2 WARNING - Verify

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| Job     | Truss | Truss Type             | Qty | Ply | JSJ, Maplewood Prime B (12-26-24) |           |
|---------|-------|------------------------|-----|-----|-----------------------------------|-----------|
| 4619374 | B01   | Common Supported Gable | 1   | 1   | Job Reference (optional)          | 170935389 |

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 2, 42 lb uplift at joint 20, 52 lb uplift at joint 31, 86 lb uplift at joint 32, 83 lb uplift at joint 34, 78 lb uplift at joint 35, 64 lb uplift at joint 36, 81 lb uplift at joint 37, 66 lb uplift at joint 38, 116 lb uplift at joint 39, 45 lb uplift at joint 29, 88 lb uplift at joint 28, 82 lb uplift at joint 27, 78 lb uplift at joint 26, 64 lb uplift at joint 25, 81 lb uplift at joint 24, 68 lb uplift at joint 23, 109 lb uplift at joint 22, 92 lb uplift at joint 2 and 42 lb uplift at joint 20.

LOAD CASE(S) Standard

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jan 22 10:14:27 ID:d2LxIAWvWBZ3NF4twVdzJezmv1K-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

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| Job     | Truss | Truss Type    | Qty | Ply | JSJ, Maplewood Prime B (12-26-24) |           |
|---------|-------|---------------|-----|-----|-----------------------------------|-----------|
| 4619374 | B02   | Common Girder | 1   | 3   | Job Reference (optional)          | 170935390 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jan 22 10:14:27 ID:9xuGp5Kxkm0ZvYimM4KgXnzmv0H-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:65.6

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

| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>20.0<br>10.0<br>0.0*<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>NO<br>IRC201 | 5/TPI2014  | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-MS  | 0.67<br>0.45<br>0.63   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>Wind(LL)         | in<br>-0.10<br>-0.20<br>0.04<br>0.11 | (loc)<br>7-9<br>7-9<br>5<br>7-9 | l/defl<br>>999<br>>999<br>n/a<br>>999 | L/d<br>360<br>240<br>n/a<br>240  | PLATES<br>MT20<br>Weight: 451 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
|---|---|---|---------------------------------------|--|--|--|--|--------------------------------------|---------------------------------|---------------------------------------|--|----------------------------------|------------------------------------|
| LUMBER       4)       Wind: ASCE 7-10; Vult=130mph (3-second gust)         TOP CHORD       2x4 SP No.2       SP 2400F 2.0E or 2x6 SP DSS         BOT CHORD       2x4 SP No.2       Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior         BRACING       TOP CHORD       Structural wood sheathing directly applied or 06-0-0 oc bracing.       Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior         BOT CHORD       Structural wood sheathing directly applied or 10-0-0 oc bracing.       This truss has been designed for a 10.0 psf bottom         BOT CHORD       (size)       1=0-3.8, 5=0-3.8       Solo-0.0 cot. III b; 2-00-00 wide will fit between the bottom         Max Horiz       1=303 (LC 24)       Max Uplift       1=2056 (LC 8), 5=-2152 (LC 9)         Max Grav       1=7658 (LC 1), 5=-7841 (LC 1)       7)         FORCES       (lb) - Maximum Compression/Maximum Tension       7)         TOP CHORD       1-2=-10256/2765, 2-3=-6803/1967, 3-4=-6803/1967, 4-5=-9271/2865       9)         BOT CHORD       1-9=-2281/8286, 7-9= |   |   |                                       |  |  |  |  |                                      |                                 | 1                                     |  |                                  |                                    |
| NOTES<br>1) 3-ply truss<br>(0.131"x3"<br>Top chord<br>oc.<br>Bottom ch<br>staggered<br>Web conn<br>2) All loads a<br>except if r<br>CASE(S)<br>provided t<br>unless ott<br>3) Unbalance<br>this design  | s to be connected toge<br>") nails as follows:<br>Is connected as follows:<br>nords connected as follows<br>nords connected as foll<br>at 0-5-0 oc.<br>Nected as follows: 2x4 -<br>are considered equally<br>noted as front (F) or ba<br>section. Ply to ply conr<br>o distribute only loads<br>nerwise indicated.<br>ed roof live loads have<br>n. | ther with 10d<br>s: 2x4 - 1 row at 0-9-0<br>ows: 2x6 - 2 rows<br>- 1 row at 0-9-0 oc.<br>applied to all plies,<br>ck (B) face in the LOA<br>nections have been<br>noted as (F) or (B),<br>been considered for | 1)<br>\D                              | Dead + Roc<br>Plate Increa<br>Uniform Loc<br>Vert: 1-3<br>Concentrate<br>Vert: 7=-<br>16=-1244<br>19=-1244<br>22=-1015 | of Live (balanced):<br>Ise=1.15<br>ads (lb/ft)<br>=-60, 10-13=-20, 3<br>ad Loads (lb)<br>1244 (B), 6=-1015<br>4 (B), 17=-1244 (B<br>5 (B), 23=-1015 (B | Lumber<br>3-5=-60<br>i (B), 15=<br>i), 18=-1<br>i), 21=-1<br>i), 24=-1 | Increase=1.1<br>1021 (B),<br>244 (B),<br>015 (B),<br>015 (B) | 15,                                  |                                 | CONTRACTOR OF CONTRACTOR              | and the second s | SEA<br>0235                      | ROLL<br>94                         |

January 23,2025

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| Job     | Truss | Truss Type                | Qty | Ply | JSJ, Maplewood Prime B (12-26-24) |           |
|---------|-------|---------------------------|-----|-----|-----------------------------------|-----------|
| 4619374 | C01   | Monopitch Supported Gable | 1   | 1   | Job Reference (optional)          | 170935391 |

5-11-8

-0-11-0

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

### Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jan 22 10:14:27 ID:ZsIYMgvgUDmntnAb2AdYOizmuwM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f









Scale = 1:28.7

| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>20.0<br>10.0<br>0.0*<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC201         | 5/TPI2014  | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-MP  | 0.10<br>0.08<br>0.06  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>n/a<br>n/a<br>0.00           | (loc)<br>-<br>-<br>2 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 25 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
|---|--|---|--|--|--|---|--|------------------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS  | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.3<br>Structural wood she<br>5-11-8 oc purlins, e<br>Rigid ceiling directly<br>bracing.<br>(size) 2=5-11-8,<br>8=5-11-8,<br>Max Horiz 2=122 (LC<br>Max Uplift 2=-73 (LC<br>(LC 8), 8=<br>8)<br>Max Grav 2=172 (LC  | athing directly applier<br>xcept end verticals.<br>applied or 10-0-0 oc<br>6=5-11-8, 7=5-11-8,<br>9=5-11-8<br>28), 6=-22 (LC 8)<br>3, 6=-21 (LC 12), 7=<br>-108 (LC 12), 9=-73<br>C1), 6=49 (LC 1), 7=  | 5)<br>6)<br>d or 7)<br>8)<br>=-23<br>(LC<br>43 | This truss ha<br>chord live loa<br>* This truss h<br>on the botton<br>3-06-00 tall b<br>chord and an<br>All bearings a<br>capacity of 5<br>Provide mecl<br>bearing plate<br>2, 21 lb uplift<br>at joint 8 and<br>DAD CASE(S) | s been designed fo<br>d nonconcurrent w<br>as been designed<br>n chord in all areas<br>y 2-00-00 wide will<br>y other members.<br>tre assumed to be<br>55 psi.<br>hanical connection<br>capable of withsta<br>at joint 6, 23 lb upl<br>73 lb uplift at joint<br>Standard | r a 10.1<br>ith any<br>for a liv<br>where<br>fit betv<br>SP No.<br>(by oth<br>nding 7<br>ift at joi<br>2. | 0 psf bottom<br>other live load<br>e load of 20.0<br>a rectangle<br>veen the botto<br>2 crushing<br>ers) of truss to<br>3 lb uplift at jo<br>nt 7, 108 lb up | ds.<br>ipsf<br>om<br>oint<br>olift |                      |                             |                          |                                 |                                    |
| FORCES  | (LC 1), 8=<br>(Ib) - Maximum Com   | =255 (LC 1), 9=172 (L<br>pression/Maximum   | _C 1)  |  |  |   |  |                                    |                      |                             |                          |                                 |                                    |
| TOP CHORD<br>BOT CHORD<br>WEBS  | Tension<br>1-2=0/17, 2-3=-111/<br>4-5=-17/9, 5-6=-34/4<br>2-8=-30/54, 7-8=0/0<br>4-7=-46/67, 3-8=-16   | 52, 3-4=-44/13,<br>11<br>, 6-7=0/0<br>7/185   |  |  |  |   |  |                                    |                      |                             |                          |                                 | un.                                |
| NOTES   | 11-10/01,00-10   | 1/100   |  |  |  |   |  |                                    |                      |                             |                          | I'L'H CA                        | ROUL                               |
| <ol> <li>Wind: ASC<br/>Vasd=103<br/>Cat. II; Ex,<br/>zone and<br/>exposed;<br/>and forces<br/>DOL=1.60</li> <li>Truss desi<br/>only. For<br/>see Stand<br/>or consult</li> <li>Gable req</li> <li>Gable stud</li> </ol> | CE 7-10; Vult=130mph<br>mph; TCDL=6.0psf; Bi<br>p C; Enclosed; MWFR<br>C-C Exterior (2) zone;<br>end vertical left expos<br>& MWFRS for reaction<br>plate grip DOL=1.60<br>igned for wind loads in<br>studs exposed to wind<br>ard Industry Gable En<br>qualified building design<br>uires continuous bottoo<br>ds spaced at 1-4-0 oc. | (3-second gust)<br>CDL=6.0psf; h=25ft;<br>S (envelope) exterior<br>cantilever left and rig<br>ed;C-C for members<br>ns shown; Lumber<br>the plane of the truss<br>(normal to the face),<br>d Details as applicabl<br>gner as per ANSI/TPI<br>m chord bearing. | s<br>le,<br>11.                                |  |  |   |  |                                    |                      | 1. minutes                  |                          | SEA<br>0235<br>OVY R.           | L<br>94<br>MILLERING               |

- Gable requires continuous bottom chord bearing. 3)
- 4) Gable studs spaced at 1-4-0 oc.

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January 23,2025

| Job     | Truss | Truss Type | Qty | Ply | JSJ, Maplewood Prime B (12-26-24) |           |
|---------|-------|------------|-----|-----|-----------------------------------|-----------|
| 4619374 | C02   | Monopitch  | 5   | 1   | Job Reference (optional)          | 170935392 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jan 22 10:14:27 ID:G2QI0vEc7W9ycxIn8Lct\_Ozmuvx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



3x4 =



Scale = 1:28.7

| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  |   | (psf)<br>20.0<br>10.0<br>0.0*<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2015/TPI2014                                       | CSI<br>TC<br>BC<br>WB<br>Matrix-MP  | 0.53<br>0.53<br>0.00 | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in<br>0.18<br>-0.12<br>0.00 | (loc)<br>4-7<br>4-7<br>2 | l/defl<br>>385<br>>591<br>n/a | L/d<br>240<br>240<br>n/a | PLATES<br>MT20<br>Weight: 22 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
|---|---|---|---|---|---|----------------------|--|-----------------------------|--------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING   | 2x4 SP No.:<br>2x4 SP No.:<br>2x4 SP No.:   | 2<br>2<br>2   |   | <ol> <li>Provide mec<br/>bearing plate<br/>joint 2 and 10<br/>LOAD CASE(S)</li> </ol> | hanical connection<br>capable of withsta<br>37 lb uplift at joint 4<br>Standard | (by oth<br>Inding 1  | ers) of truss to<br>93 lb uplift at      | 0                           |                          |                               |                          |                                 |                                    |
| BOT CHORD   | Structural w<br>5-11-8 oc p<br>Rigid ceiling<br>bracing.  | vood shea<br>urlins, ex<br>g directly   | athing directly applied<br>applied or 10-0-0 oc   | d or  |   |                      |  |                             |                          |                               |                          |                                 |                                    |
| REACTIONS   | (size) 2<br>Max Horiz 2<br>Max Uplift 2<br>Max Gray 2   | =0-3-0, 4<br>=122 (LC<br>=-193 (L0<br>=292 (L0  | =0-1-8<br>5 8)<br>C 8), 4=-167 (LC 8)<br>5 1) 4=228 (I C 1)   |   |   |                      |  |                             |                          |                               |                          |                                 |                                    |
| FORCES  | (lb) - Maxim  | um Com  | pression/Maximum  |   |   |                      |  |                             |                          |                               |                          |                                 |                                    |
| TOP CHORD<br>BOT CHORD  | 1-2=0/17, 2<br>2-4=-190/10  | -3=-100/1<br>)1   | 36, 3-4=-152/203  |   |   |                      |  |                             |                          |                               |                          |                                 |                                    |
| NOTES   |   |   |   |   |   |                      |  |                             |                          |                               |                          |                                 |                                    |
| <ol> <li>Wind: ASC<br/>Vasd=103i<br/>Cat. II; Exp<br/>zone and (<br/>exposed; c<br/>reactions s<br/>DOL=1.60</li> </ol> | E 7-10; Vult=<br>mph; TCDL=6<br>o C; Enclosed<br>C-C Exterior (<br>end vertical le<br>c-C for membe<br>shown; Lumbe | 130mph<br>5.0psf; BC<br>; MWFRS<br>2) zone; (<br>2) zone; (<br>eft expose<br>ers and fo<br>er DOL=1 | (3-second gust)<br>CDL=6.0psf; h=25ft;<br>S (envelope) exterior<br>cantilever left and rig<br>d; porch left and rig<br>proces & MWFRS for<br>.60 plate grip | ht<br>It  |   |                      |  |                             |                          |                               |                          | WITH CA                         | ROL                                |
| 2) This truss   | has been des  | igned for   | a 10.0 psf bottom   | _   |   |                      |  |                             |                          |                               | is                       | OFESS                           | Dir Main                           |
| <ul> <li>cnord live</li> <li>3) * This truss<br/>on the bott</li> <li>3-06-00 tal</li> <li>chord and</li> </ul>         | ioad nonconc<br>s has been de<br>tom chord in a<br>Il by 2-00-00 v<br>any other me                                  | urrent wit<br>esigned fo<br>all areas v<br>wide will f<br>mbers                                     | n any other live load<br>or a live load of 20.0p<br>where a rectangle<br>it between the bottor  | s.<br>osf<br>n  |   |                      |  |                             |                          | ALL DATE                      | 0                        | SEAI                            | uide                               |
| 4) All bearing  | Is are assume   | ed to be S  | P No.2 crushing   |   |   |                      |  |                             |                          | 1                             |                          | 0235                            | <sup>74</sup> ? ?                  |
| 5) Bearing at<br>using ANS  | joint(s) 4 con<br>i/TPI 1 angle   | siders pa<br>to grain f   | rallel to grain value<br>ormula. Building   |   |   |                      |  |                             |                          |                               |                          | NGINE                           | EPIA                               |
| <ul><li>designer s</li><li>6) Provide me<br/>bearing plat</li></ul>   | nould verify c<br>echanical con<br>ate at joint(s)  | apacity o<br>nection (<br>4.  | bearing surface.<br>by others) of truss to  |   |   |                      |  |                             |                          |                               | 11                       | WY R. N                         | MILLINN                            |

January 23,2025

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| Job     | Truss | Truss Type | Qty | Ply | JSJ, Maplewood Prime B (12-26-24) |           |
|---------|-------|------------|-----|-----|-----------------------------------|-----------|
| 4619374 | C03   | Monopitch  | 12  | 1   | Job Reference (optional)          | 170935393 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jan 22 10:14:27 ID:Zgtq37XfTuBYVdaPYO1WySzmuvZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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-0-11-0



4-11-8

Scale = 1:27.4

| <b>Loading</b><br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>20.0<br>10.0<br>0.0*<br>10.0   | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2015/TPI2014                           | CSI<br>TC<br>BC<br>WB<br>Matrix-MP  | 0.32<br>0.26<br>0.00     | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>Wind(LL) | in<br>-0.02<br>-0.05<br>0.00<br>0.04 | (loc)<br>4-7<br>4-7<br>2<br>4-7 | l/defl<br>>999<br>>999<br>n/a<br>>999 | L/d<br>360<br>240<br>n/a<br>240 | PLATES<br>MT20<br>Weight: 19 lb | <b>GRIP</b><br>244/190<br>FT = 20% |  |
|--|---|---|---|---|--------------------------|--|--------------------------------------|---------------------------------|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|--|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS   | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.2<br>Structural wood she<br>4-11-8 oc purlins, e<br>Rigid ceiling directly<br>bracing.<br>(size) 2=0-3-8, 4<br>Max Horiz 2=105 (LC<br>Max Uplift 2=-111 (L<br>Max 0 2 2 2 2 2 1 2 1 2 1 2 1 1 2 1 2 1 2 1   | athing directly applie<br>xcept end verticals.<br>applied or 10-0-0 oc<br>4=0-1-8<br>C 8), 4=-79 (LC 12)  | 7) Provide med<br>bearing plate<br>2 and 79 lb t<br>LOAD CASE(S)<br>ed or | hanical connectii<br>e capable of with:<br>uplift at joint 4.<br>Standard | on (by oth<br>standing 1 | ers) of truss t<br>11 lb uplift at                   | o<br>joint                           |                                 |                                       |                                 |                                 |                                    |  |
| FORCES<br>TOP CHORD<br>BOT CHORD   | (Ib) - Maximum Com<br>Tension<br>1-2=0/17, 2-3=-81/3<br>2-4=-65/98  | 2, 3-4=-124/140   |   |   |                          |  |                                      |                                 |                                       |                                 |                                 |                                    |  |
| <ol> <li>Wind: AS<br/>Vasd=10</li> <li>Cat. II; E:<br/>zone and<br/>exposed<br/>and force<br/>DOL=1.6</li> <li>This truss<br/>chord live<br/>3 * This tru<br/>on the boc<br/>3 * 06-00 t<br/>chord ann</li> <li>All bearin<br/>capacity</li> <li>Bearing a<br/>using AN<br/>designer</li> <li>Provide r<br/>bearing p</li> </ol> | CE 7-10; Vult=130mph<br>3mph; TCDL=6.0psf; Br<br>qp C; Enclosed; MWFR<br>C-C Exterior (2) zone;<br>; end vertical left expos<br>s & MWFRS for reactio<br>0 plate grip DOL=1.60<br>s has been designed for<br>e load nonconcurrent wi<br>ss has been designed f<br>ttom chord in all areas<br>all by 2-00-00 wide will<br>d any other members.<br>gs are assumed to be so<br>of 565 psi.<br>tt joint(s) 4 considers pa<br>SI/TPI 1 angle to grain<br>should verify capacity of<br>nechanical connection (<br>late at joint(s) 4. | (3-second gust)<br>CDL=6.0psf; h=25ft;<br>S (envelope) exterior<br>cantilever left and ri-<br>ed;C-C for members<br>ins shown; Lumber<br>r a 10.0 psf bottom<br>th any other live load<br>or a live load of 20.0<br>where a rectangle<br>fit between the botto<br>SP No.2 crushing<br>arallel to grain value<br>formula. Building<br>of bearing surface.<br>'by others) of truss to | r<br>ght<br>5<br>ds.<br>psf<br>om   |   |                          |  |                                      |                                 | Walthur                               |                                 | SEA<br>0235                     | ROLL<br>94                         |  |

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January 23,2025

818 Soundside Road Edenton, NC 27932

| Job     | Truss | Truss Type                | Qty | Ply | JSJ, Maplewood Prime B (12-26-24) |           |
|---------|-------|---------------------------|-----|-----|-----------------------------------|-----------|
| 4619374 | C04   | Monopitch Supported Gable | 1   | 1   | Job Reference (optional)          | 170935394 |

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#### Scale = 1:27.4

| Loading   | (psf)   | Spacing  | 2-0-0  | CSI  |   | DEFL  | in                          | (loc) | l/defl    | L/d | PLATES        | GRIP         |
|---|---|--|--|--|---|---|-----------------------------|-------|-----------|-----|---------------|--------------|
| TCLL (roof)   | 20.0  | Plate Grip DOL   | 1.15   | тс   | 0.12  | Vert(LL)  | n/a                         | -     | n/a       | 999 | MT20          | 244/190      |
| TCDL  | 10.0  | Lumber DOL   | 1.15   | BC   | 0.10  | Vert(CT)  | n/a                         | -     | n/a       | 999 |               |              |
| BCLL  | 0.0*  | Rep Stress Incr  | YES  | WB   | 0.06  | Horz(CT)  | 0.00                        | 2     | n/a       | n/a |               |              |
| BCDL  | 10.0  | Code   | IRC2015/TPI2014  | Matrix-MP  |   |   |                             |       |           |     | Weight: 20 lb | FT = 20%     |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS  | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.3<br>Structural wood shea<br>4-11-8 oc purlins, ex<br>Rigid ceiling directly<br>bracing.<br>(size) 2=4-11-8,<br>7=4-11-8<br>Max Horiz 2=105 (LC<br>Max Uplift 2=-83 (LC<br>(LC 12), 7<br>Max Grav 2=182 (LC  | athing directly applied<br>ccept end verticals.<br>applied or 10-0-0 oc<br>5=4-11-8, 6=4-11-8,<br>8), 7=105 (LC 8)<br>8), 5=-29 (LC 1), 6=-<br>=-83 (LC 8)<br>1), 5=12 (LC 12), 6=   | <ul> <li>6) * This truss h<br/>on the botton<br/>3-06-00 tall b<br/>chord and an</li> <li>7) All bearings a<br/>capacity of 50</li> <li>8) Provide med<br/>bearing plate<br/>2, 29 lb uplift<br/>uplift at joint 1</li> <li>LOAD CASE(S)</li> <li>121</li> <li>2287</li> </ul> | as been designed<br>a chord in all areas<br>y 2-00-00 wide will<br>y other members.<br>are assumed to be<br>55 psi.<br>nanical connection<br>capable of withsta<br>at joint 5, 121 lb up<br>2.<br>Standard | for a liv<br>where<br>fit betw<br>SP No.<br>(by oth<br>nding 8<br>bilft at jo | e load of 20.0<br>a rectangle<br>veen the botto<br>2 crushing<br>ers) of truss to<br>3 lb uplift at jo<br>bint 6 and 83 l | psf<br>om<br>o<br>bint<br>b |       |           |     |               |              |
| FORCES  | (LC 1), 7=<br>(Ib) - Maximum Com  | 182 (LC 1)<br>pression/Maximum   |  |  |   |   |                             |       |           |     |               |              |
| TOP CHORD<br>BOT CHORD<br>WEBS<br><b>NOTES</b><br>1) Wind: ASC<br>Vasd=1030<br>Cat. II; Exp<br>zone and C<br>exposed;<br>and forces<br>DOL=1.60<br>2) Truss desii<br>only. For s<br>see Standa<br>or consult<br>3) Gable requ<br>4) Gable stud<br>5) This truss i<br>chord live I | Tension<br>1-2=0/17, 2-3=-82/43<br>2-6=-31/59, 5-6=0/0<br>3-6=-189/215<br>CE 7-10; Vult=130mph<br>mph; TCDL=6.0psf; BG<br>0-C; Enclosed; MWFRS<br>C-C Exterior (2) zone;<br>end vertical left expose<br>& MWFRS for reaction<br>plate grip DOL=1.60<br>gned for wind loads in<br>studs exposed to wind<br>ard Industry Gable End<br>qualified building desigu-<br>ties socition us bottor<br>has been designed for<br>load nonconcurrent with | (3-second gust)<br>CDL=6.0psf; h=25ft;<br>S (envelope) exterior<br>cantilever left and rigl<br>ad;C-C for members<br>ns shown; Lumber<br>the plane of the truss<br>(normal to the face),<br>d Details as applicable<br>gner as per ANSI/TPI<br>n chord bearing.<br>a 10.0 psf bottom<br>h any other live loads | 3<br>nt<br>9,<br>1.  |  |   |   |                             |       | 1 Million |     | SEA<br>0235   | ROSEL<br>194 |

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818 Soundside Road Edenton, NC 27932

| Job     | Truss | Truss Type | Qty | Ply | JSJ, Maplewood Prime B (12-26-24) |           |
|---------|-------|------------|-----|-----|-----------------------------------|-----------|
| 4619374 | V01   | Valley     | 1   | 1   | Job Reference (optional)          | 170935395 |

1)

2)

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818 Soundside Road

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| Job     | Truss | Truss Type | Qty | Ply | JSJ, Maplewood Prime B (12-26-24) |           |
|---------|-------|------------|-----|-----|-----------------------------------|-----------|
| 4619374 | V02   | Valley     | 1   | 1   | Job Reference (optional)          | 170935396 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jan 22 10:14:28 ID:hay2JX0Sf5d2e8Velv71m0zmvK2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



18-3-12

| Scale = 1:50  |  |  |  |                            |  |  |  |   |                          |       |        |     | ]             |          |
|---|--|--|--|----------------------------|--|--|--|---|--------------------------|-------|--------|-----|---------------|----------|
| 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                       |  | тс   | 0.32   | Vert(LL)  | n/a                      | -     | n/a    | 999 | MT20          | 244/190  |
| TCDL  |  | 10.0   | Lumber DOL   | 1.15                       |  | BC   | 0.23   | Vert(TL)  | n/a                      | -     | n/a    | 999 |               |          |
| BCLL  |  | 0.0*   | Rep Stress Incr  | YES                        |  | WB   | 0.31   | Horiz(TL)   | 0.00                     | 5     | n/a    | n/a |               |          |
| BCDL  |  | 10.0   | Code   | IRC20                      | 15/TPI2014   | Matrix-MS  |  |   |                          |       |        |     | Weight: 79 lb | FT = 20% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD | 2x4 SP N<br>2x4 SP N<br>2x4 SP N<br>Structural<br>10-0-0 oc<br>Rigid ceili | o.2<br>o.2<br>o.3<br>I wood she<br>purlins.<br>ing directly  | athing directly appli  | ed or                      | <ul> <li>Gable studs</li> <li>This truss ha<br/>chord live load</li> <li>* This truss ha<br/>on the bottoon<br/>3-06-00 tall h<br/>chord and an</li> <li>All bearings</li> </ul> | spaced at 4-0-0 or<br>as been designed<br>ad nonconcurrent<br>has been designed<br>m chord in all are<br>by 2-00-00 wide w<br>hy other members<br>are assumed to b | oc.<br>for a 10.<br>with any<br>ed for a liv<br>as where<br>vill fit betw<br>s, with BC<br>be SP No. | 0 psf bottom<br>other live loa<br>e load of 20.0<br>a rectangle<br>veen the botto<br>DL = 10.0psf<br>2 crushing | ads.<br>Opsf<br>om<br>f. |       |        |     |               |          |
|   | bracing.   | 4 40 0 44  |  | o 40 9                     | ) Provide med  | 65 psi.<br>hanical connectio   | on (by oth   | ers) of truss t   | to                       |       |        |     |               |          |
| REACTIONS   | (Size)<br>Max Horiz<br>Max Uplift<br>Max Grav                              | 7=18-3-12<br>7=18-3-12<br>1=-225 (L<br>1=-30 (LC<br>9=-313 (L<br>1=116 (LC<br>6=550 (LC<br>9=554 (LC | 2, 5=18-3-12, 6=18-<br>2, 9=18-3-12<br>C 8)<br>S 8, 6=-309 (LC 13)<br>C 20), 5=103 (LC 24<br>C 20), 5=103 (LC 24<br>C 20), 7=532 (LC 19) | 3-12,<br>, L<br>1),<br>9), | bearing plate<br>1, 313 lb upl<br>OAD CASE(S)  | e capable of withs<br>ift at joint 9 and 3<br>Standard   | standing 3<br>09 lb upli   | i0 lb uplift at j<br>it at joint 6.   | joint                    |       |        |     |               |          |
| FORCES  | (lb) - Max<br>Tension  | imum Corr  | pression/Maximum   |                            |  |  |  |   |                          |       |        |     |               |          |
| TOP CHORD   | 1-2=-215/<br>4-5=-157/   | /318, 2-3=-<br>/270  | 25/218, 3-4=0/205,   |                            |  |  |  |   |                          |       |        |     |               |          |
| BOT CHORD   | 1-9=-264/<br>5-6=-264/   | /214, 7-9=-<br>/214  | 264/214, 6-7=-264/2  | 214,                       |  |  |  |   |                          |       |        |     |               |          |
| WEBS<br>NOTES   | 3-7=-368/  | /39, 2-9=-4  | 17/334, 4-6=-417/3   | 33                         |  |  |  |   |                          |       |        |     | WITH CA       | Bolly    |

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical 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.
- 4) Gable requires continuous bottom chord bearing.



January 23,2025

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| Job     | Truss | Truss Type | Qty | Ply | JSJ, Maplewood Prime B (12-26-24) |           |
|---------|-------|------------|-----|-----|-----------------------------------|-----------|
| 4619374 | V03   | Valley     | 1   | 1   | Job Reference (optional)          | 170935397 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jan 22 10:14:28 ID:P2dhYaY2IdAowus5K8wLYIzmvJM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:42.2

| Loading<br>ICLL (roof)<br>ICDL<br>BCLL<br>BCDL                     |  | (psf)<br>20.0<br>10.0<br>0.0*<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2015 | 5/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-MS  | 0.21<br>0.11<br>0.14  | <b>DEFL</b><br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)                                 | in<br>n/a<br>n/a<br>0.00 | (loc)<br>-<br>-<br>5 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 64 lb | <b>GRIP</b><br>244/190<br>FT = 20% |   |
|--|--|---|---|---|---|---|---|--|--------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|---|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>OTHERS<br>BRACING<br>TOP CHORD | 2x4 SP No<br>2x4 SP No<br>2x4 SP No<br>Structural<br>10-0-0 oc           | o.2<br>o.2<br>o.3<br>wood she<br>purlins.   | athing directly applied   | 5)<br>6)<br>7)<br>d or                  | Gable studs<br>This truss ha<br>chord live loa<br>* This truss h<br>on the bottor<br>3-06-00 tall b<br>chord and an | spaced at 4-0-0<br>s been designed<br>ad nonconcurre<br>has been design<br>n chord in all ar<br>by 2-00-00 wide<br>by other membe | ) oc.<br>ed for a 10.0<br>nt with any<br>ned for a live<br>eas where<br>will fit betw<br>ers. | ) psf bottom<br>other live loa<br>e load of 20.0<br>a rectangle<br>een the botto | ds.<br>Opsf<br>om        |                      |                             |                          |                                 |                                    |   |
| BOT CHORD  | Rigid ceili<br>bracing.<br>(size)<br>Max Horiz<br>Max Uplift<br>Max Grav | ng directly<br>1=15-2-7,<br>7=15-2-7,<br>1=-186 (L<br>1=-33 (LC<br>8=-252 (L<br>1=125 (LC<br>6=406 (LC<br>8=410 (LC | applied or 6-0-0 oc<br>5=15-2-7, 6=15-2-7,<br>8=15-2-7<br>C 8)<br>8 8), 6=-249 (LC 13),<br>C 12)<br>C 20), 5=96 (LC 24),<br>C 20), 7=317 (LC 1),<br>C 19) | 9)<br>LC                                | All bearings 4<br>capacity of 5<br>Provide mec<br>bearing plate<br>1, 252 lb upli<br>DAD CASE(S)                    | 65 psi.<br>hanical conneci<br>capable of with<br>ft at joint 8 and<br>Standard  | tion (by oth<br>hstanding 3<br>249 lb uplif   | ers) of truss t<br>3 lb uplift at j<br>t at joint 6.                             | o<br>oint                |                      |                             |                          |                                 |                                    |   |
|  | (lb) - Max<br>Tension  | imum Com  | pression/Maximum  |   |   |   |   |  |                          |                      |                             |                          |                                 |                                    |   |
| SOT CHORD  | 4-5=-115/<br>1-8=-119/<br>5-6=-119/<br>3-7=-245/                         | 131<br>149, 7-8=-<br>138<br>20, 2-8=-3  | 119/138, 6-7=-119/1:<br>49/282, 4-6=-349/28   | ,<br>38,<br>1                           |   |   |   |  |                          |                      |                             |                          |                                 | 200.                               |   |
| <b>VOTES</b> I) Unbalance  | ed roof live l   | oads have   | been considered for   |   |   |   |   |  |                          |                      |                             | N                        | TH CA                           | ROUT                               | • |

- Unbalanced root live loads have been considered this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical 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.
- 4) Gable requires continuous bottom chord bearing.

818 Soundside Road Edenton, NC 27932

A. MILIN

January 23,2025

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| Job     | Truss | Truss Type | Qty | Ply | JSJ, Maplewood Prime B (12-26-24) |           |
|---------|-------|------------|-----|-----|-----------------------------------|-----------|
| 4619374 | V04   | Valley     | 1   | 1   | Job Reference (optional)          | 170935398 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jan 22 10:14:28 ID:LIGsX4nzpSZ6ipplxemoplzmvJ3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:37.1

| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>20.0<br>10.0<br>0.0*<br>10.0   | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC201                  | 5/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-MS  | 0.18<br>0.12<br>0.08  | <b>DEFL</b><br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)  | in<br>n/a<br>n/a<br>0.00     | (loc)<br>-<br>-<br>5 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 48 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
|--|---|---|---|--|---|---|---|------------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.3<br>Structural wood she<br>6-0-0 oc purlins.<br>Rigid ceiling directly<br>bracing.<br>(size) 1=12-1-2,<br>7=12-1-2,<br>Max Horiz 1=-147 (L<br>Max Uplift 1=-45 (LC<br>(LC 13), 8<br>Max Grav 1=97 (LC<br>(LC 20), 7<br>19) | athing directly applied<br>applied or 10-0-0 oc<br>5=12-1-2, 6=12-1-2,<br>8=12-1-2<br>C 8)<br>8), 5=-9 (LC 9), 6=-2<br>=-213 (LC 12)<br>20), 5=69 (LC 19), 6=<br>=253 (LC 1), 8=347 ( | 5)<br>6)<br>7)<br>d or<br>8)<br>9)<br>209<br>LC<br>=342 | Gable studs :<br>This truss ha<br>chord live loa<br>* This truss h<br>on the botton<br>3-06-00 tall b<br>chord and an<br>All bearings a<br>capacity of 5<br>Provide meci<br>bearing plate<br>1, 9 lb uplift a<br>uplift at joint i<br><b>DAD CASE(S)</b> | spaced at 4-0-0 or<br>s been designed f<br>ad nonconcurrent<br>has been designed<br>n chord in all area<br>y 2-00-00 wide wi<br>y 2-00-00 wide wi<br>y other members.<br>are assumed to be<br>65 psi.<br>hanical connection<br>capable of withst<br>at joint 5, 213 lb up<br>6.<br>Standard | c.<br>for a 10.0<br>with any<br>f for a liv<br>s where<br>ill fit betw<br>SP No.<br>a (by oth<br>anding 4<br>olift at joi | D psf bottom<br>other live load<br>e load of 20.0<br>a rectangle<br>veen the botto<br>2 crushing<br>ers) of truss to<br>5 lb uplift at jc<br>nt 8 and 209 l | ls.<br>psf<br>m<br>vint<br>b |                      |                             |                          |                                 |                                    |
| FORCES   | (lb) - Maximum Com<br>Tension   | pression/Maximum  |   |  |   |   |   |                              |                      |                             |                          |                                 |                                    |
| TOP CHORD  | 1-2=-140/127, 2-3=-<br>4-5=-98/74   | 146/139, 3-4=-146/13  | 32,   |  |   |   |   |                              |                      |                             |                          |                                 |                                    |
| BOT CHORD  | 1-8=-46/85, 7-8=-42<br>5-6=-42/85   | /85, 6-7=-42/85,  |   |  |   |   |   |                              |                      |                             |                          |                                 |                                    |
| WEBS<br>NOTES<br>1) Unbalance  | 3-7=-167/20, 2-8=-3<br>ed roof live loads have  | 32/276, 4-6=-332/274<br>been considered for   | 1   |  |   |   |   |                              |                      |                             | and a                    | H CA                            | ROLA                               |

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical 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.
- 4) Gable requires continuous bottom chord bearing.



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818 Soundside Road Edenton, NC 27932

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| Job     | Truss | Truss Type | Qty | Ply | JSJ, Maplewood Prime B (12-26-24) |           |
|---------|-------|------------|-----|-----|-----------------------------------|-----------|
| 4619374 | V05   | Valley     | 1   | 1   | Job Reference (optional)          | 170935399 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jan 22 10:14:28 ID:3dteeVuESXqhvMagXkx8DPzmvIv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



| Scale = 1.50.7  |  |   |   |   | -   |   |  |                          |                      |                             |                          |                                 |                                    |   |
|---|--|---|---|---|---|---|--|--------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|---|
| Loading<br>TCLL (roof)<br>TCDL<br>SCLL<br>SCDL  | (psf)<br>20.0<br>10.0<br>0.0*<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2015 | 5/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-MS  | 0.23<br>0.22<br>0.12  | <b>DEFL</b><br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)   | in<br>n/a<br>n/a<br>0.00 | (loc)<br>-<br>-<br>3 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 33 lb | <b>GRIP</b><br>244/190<br>FT = 20% |   |
| UMBER<br>OP CHORD<br>SOT CHORD<br>DTHERS<br>SRACING<br>OP CHORD<br>SOT CHORD<br>REACTIONS   | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.3<br>Structural wood she<br>8-11-12 oc purlins.<br>Rigid ceiling directly<br>bracing.<br>(size) 1=8-11-12<br>Max Horiz 1=-108 (L<br>Max Uplift 1=-13 (LC<br>4=-194 (L<br>Max Grav 1=76 (LC<br>(LC 1) | athing directly applie<br>applied or 6-0-0 oc<br>2, 3=8-11-12, 4=8-11<br>C 10)<br>: 24), 3=-20 (LC 8),<br>C 12)<br>23), 3=76 (LC 24), 4 | 7)<br>8)<br>9)<br>1-12 LC               | * This truss h<br>on the bottor<br>3-06-00 tall b<br>chord and ar<br>All bearings<br>capacity of 5<br>Provide mec<br>bearing plate<br>1, 20 lb uplift<br>AD CASE(S) | as been design<br>n chord in all are<br>by 2-00-00 wide<br>ny other member<br>are assumed to<br>65 psi.<br>hanical connecti<br>e capable of with<br>at joint 3 and 19<br>Standard | ed for a livv<br>as where<br>will fit betw<br>'s.<br>be SP No<br>on (by oth<br>standing 1<br>94 lb uplift | e load of 20.0<br>a rectangle<br>reen the botto<br>2 crushing<br>ers) of truss t<br>3 lb uplift at jr<br>at joint 4. | )psf<br>om<br>o<br>oint  |                      |                             |                          |                                 |                                    |   |
| ORCES   | (lb) - Maximum Com<br>Tension  | pression/Maximum  |   |   |   |   |  |                          |                      |                             |                          |                                 |                                    |   |
| OP CHORD<br>SOT CHORD<br>VEBS   | 1-2=-112/271, 2-3=-<br>1-4=-257/178, 3-4=-<br>2-4=-523/277   | 112/264<br>257/178  |   |   |   |   |  |                          |                      |                             |                          |                                 |                                    |   |
| OTES  |  |   |   |   |   |   |  |                          |                      |                             |                          |                                 |                                    |   |
| <ul> <li>) Unbalance<br/>this design</li> <li>this design</li> <li>Wind: ASC</li> <li>Vasd=103</li> <li>Cat. II; Ex</li> <li>zone and</li> <li>exposed ;</li> </ul> | ed roof live loads have<br>n.<br>CE 7-10; Vult=130mph<br>imph; TCDL=6.0psf; B<br>p C; Enclosed; MWFR<br>C-C Exterior (2) zone;<br>end vertical left and ri   | been considered for<br>(3-second gust)<br>CDL=6.0psf; h=25ft;<br>S (envelope) exterio<br>cantilever left and rig<br>th exposed;C-C for  | r<br>ght                                |   |   |   |  |                          |                      |                             |                          | OFTH CA                         | ROLIN                              | 2 |



members and forces & MWFRS for reactions shown;

4) Gable requires continuous bottom chord bearing.

5) Gable studs spaced at 4-0-0 oc. 6)

2

This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. Quana www. The manual of the second T. MILTON R. MI January 23,2025

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818 Soundside Road Edenton, NC 27932

| Job     | Truss | Truss Type | Qty | Ply | JSJ, Maplewood Prime B (12-26-24) |           |  |
|---------|-------|------------|-----|-----|-----------------------------------|-----------|--|
| 4619374 | V06   | Valley     | 1   | 1   | Job Reference (optional)          | 170935400 |  |

2-11-4

2-11-4

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jan 22 10:14:28 ID:IMw2Wa?tLIzPUkmOY7bF4IzmvIm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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2-6-11

3

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0-0-8 Λ 2x4 u 2x4 🍫 5-10-7

9 Г

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2-2-15

| Scale = 1:25.9   |  |   |   |  |  |  |  |                          |                      |                             |                          |                                 |                                    |  |
|--|--|---|---|--|--|--|--|--------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|--|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>20.0<br>10.0<br>0.0*<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2018 | 5/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-MP   | 0.10<br>0.11<br>0.05   | DEFL<br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)  | in<br>n/a<br>n/a<br>0.00 | (loc)<br>-<br>-<br>3 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 21 lb | <b>GRIP</b><br>244/190<br>FT = 20% |  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS                 | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.3<br>Structural wood she<br>5-10-7 oc purlins.<br>Rigid ceiling directly<br>bracing.<br>(size) 1=5-10-7,<br>Max Horiz 1=69 (LC<br>Max Uplift 1=-5 (LC<br>4=-105 (LC<br>Max Grav 1=67 (LC<br>(LC 1) | athing directly applie<br>applied or 6-0-0 oc<br>3=5-10-7, 4=5-10-7<br>9)<br>12), 3=-18 (LC 13),<br>C 12)<br>23), 3=67 (LC 24), 4 | 7)<br>8)<br>d or 9)<br>LC<br>=367       | * This truss h<br>on the bottor<br>3-06-00 tall b<br>chord and ar<br>All bearings a<br>capacity of 5<br>Provide mec<br>bearing plate<br>1, 18 lb uplift<br>DAD CASE(S) | as been designe<br>n chord in all are<br>by 2-00-00 wide<br>by other member<br>are assumed to 1<br>65 psi.<br>nanical connecti<br>capable of with<br>at joint 3 and 10<br>Standard | ed for a liv<br>as where<br>will fit betv<br>s.<br>be SP No.<br>on (by oth<br>standing 5<br>55 lb uplift | e load of 20.0<br>a rectangle<br>veen the botto<br>2 crushing<br>ers) of truss to<br>5 lb uplift at joi<br>at joint 4. | opsf<br>om<br>o<br>nt    |                      |                             |                          |                                 |                                    |  |
| FORCES<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>NOTES<br>1) Unbalance<br>this design<br>2) Wind: ASC<br>Vasd=103 | (lb) - Maximum Com<br>Tension<br>1-2=-61/135, 2-3=-6<br>1-4=-143/109, 3-4=-<br>2-4=-257/135<br>ed roof live loads have<br>n.<br>CE 7-10; Vult=130mph<br>mph; TCDL=6.0psf; Bt<br>p C: Epsed MWE   | pression/Maximum<br>1/127<br>143/109<br>been considered for<br>(3-second gust)<br>CDL=6.0psf; h=25ft;                             |   |  |  |  |  |                          |                      |                             |                          | TH CA                           | NRO/ March                         |  |



only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 4) Gable requires continuous bottom chord bearing.

Gable studs spaced at 3-0-0 oc. 5)

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Jummun Contraction of the Million Million January 23,2025

SEAL

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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. 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/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and PCB Building Component Science Michael Component Advancement description (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



| Job     | Truss | Truss Type | Qty | Ply | JSJ, Maplewood Prime B (12-26-24) |           |
|---------|-------|------------|-----|-----|-----------------------------------|-----------|
| 4619374 | V07   | Valley     | 1   | 1   | Job Reference (optional)          | 170935401 |

Run; 8.63 S Sep 26 2024 Print; 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jan 22 10:14:28 ID:7WHJnd4ew8jZCfDYvOifKZzmvIg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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1-4-9 1-4-9

Page: 1



1-0-15



2-9-2

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Scale = 1:25.1

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

| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL                        |   | (psf)<br>20.0<br>10.0<br>0.0*<br>10.0 | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2015 | /TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-MP   | 0.05<br>0.05<br>0.00                         | DEFL<br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)       | in<br>n/a<br>n/a<br>0.00 | (loc)<br>-<br>-<br>3 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 8 lb | <b>GRIP</b><br>244/190<br>FT = 20% |  |
|---|---|---------------------------------------|---|---|---|--|--|---|--------------------------|----------------------|-----------------------------|--------------------------|--------------------------------|------------------------------------|--|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>BRACING<br>TOP CHORD<br>BOT CHORD | 2x4 SP No.2<br>2x4 SP No.2<br>Structural wood sheathing directly applied or<br>2-9-2 oc purlins.<br>Rigid ceiling directly applied or 10-0-0 oc<br>bracing. |                                       |   |   | All bearings a<br>capacity of 5<br>Provide mecl<br>bearing plate<br>1 and 28 lb u<br>AD CASE(S) | are assumed to<br>65 psi.<br>hanical connec<br>capable of wit<br>plift at joint 3.<br>Standard | o be SP No.<br>ction (by oth<br>thstanding 2 | 2 crushing<br>ers) of truss<br>8 lb uplift at j | to<br>joint              |                      |                             |                          |                                |                                    |  |
| REACTIONS   | (size)<br>Max Horiz<br>Max Uplift   | 1=2-9-2, 3<br>1=-30 (LC<br>1=-28 (LC  | 3=2-9-2<br>5 10)<br>5 12), 3=-28 (LC 13)                                  | )                                       |   |  |  |   |                          |                      |                             |                          |                                |                                    |  |

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-146/58, 2-3=-146/58 BOT CHORD 1-3=-34/118

# NOTES

1) Unbalanced roof live loads have been considered for this design.

Max Grav 1=110 (LC 1), 3=110 (LC 1)

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical 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 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc. 5)
- This truss has been designed for a 10.0 psf bottom 6)
- chord live load nonconcurrent with any other live loads. 7) \* This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

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