

| RE: 2412-1161-A - Stonefield Rev 3-Elev 1-Eloor  | Trenco   |
|--|--|
| Site Information:  | 818 Soundside Rd   |
| Project Customer: DRB Raleigh Project Name: DR   | B Raleigh Model Track  |
| Lot/Block: Subdivisi   | on: DRB Raleigh  |
| Model:   | 5  |
| Address:   |  |
| City: State:   |  |
| General Truss Engineering Criteria & Design Load   | s (Individual Truss Design   |
| Drawings Show Special Loading Conditions):   |  |
| Uesign Code: IRC2021/1PI2014   | Design Program: MiTek 20/20 25.2<br>Design Method: MWEDS (Envelope)/C C hybrid Wind ASCE 7.16  |
| Wind Speed: 115 mph  | Eloor Load: N/A psf  |
| Roof Load: 50.0 psf  | riooi Load. 10/A psi   |
| Mean Roof Height (feet): 25  | Exposure Category: B   |
|  |  |
| No. Seal# Truss Name Date No. Seal#  | Truss Name Date  |
| 1 174582434 1F6 7/2/25 35 1745824<br>2 174582435 1E7 7/2/25 36 1745824   | 68 2FGE3A 7/2/25<br>69 2E1A 7/2/25   |
| 3 174582436 1F7A 7/2/25 37 1745824   | 70 2F24 7/2/25   |
| 4 174582437 1F8A 7/2/25 38 1745824<br>5 174582438 1F8 7/2/25 39 1745824  | 71 2F1 7/2/25<br>72 2F2 7/2/25   |
| 6 174582439 1F9 7/2/25 40 1745824<br>7 174582440 1F10 7/2/25 41 1745824  | 73 2F25 7/2/25<br>74 2F2A 7/2/25   |
| 8 174582441 1F10A 7/2/25 10 1745824  | 75 2F3A 7/2/25   |
| 10 174582442 1F10B 7/2/25 43 1745824<br>10 174582443 1F13B 7/2/25 44 1745824   | 76 2F4 7/2/25<br>77 2F5 7/2/25   |
| 11 I74582444 1F13A 7/2/25 45 I745824<br>12 I74582445 1F13 7/2/25 46 I745824  | 78 2F3 7/2/25<br>79 2F14A 7/2/25   |
| 13 174582446 1FGE9 7/2/25 47 1745824   | 80 2F20 7/2/25   |
| 14 174582447 1F1 7/2/25 48 1745824<br>174582448 1FGE1 7/2/25 49 1745824  | 81 2F19 7/2/25<br>82 2F7 7/2/25  |
| 16 174582449 1FGE5 7/2/25 50 1745824<br>17 174582450 1F11 7/2/25 1745824   | 83 2F6 7/2/25<br>84 2F8 7/2/25   |
| 18 174582451 1F12 7/2/25 52 1745824  | 85 2F9 7/2/25  |
| 20 I74582453 1FGE3 7/2/25 53 I745824   | 87 2FGE2 7/2/25  |
| 21 I74582454 1FGE2A 7/2/25 55 I745824<br>22 I74582455 1E2A 7/2/25 56 I745824   | 88 2F3B 7/2/25<br>89 2F14 7/2/25   |
| 23 174582456 1F3 7/2/25 57 1745824   | 90 2FGE5 7/2/25  |
| 25 I74582458 1F5A 7/2/25 59 I745824  | 91 $2F_{21}$ 7/2/25<br>92 $2F_{16}$ 7/2/25   |
| 26 I74582459 1FGE7 7/2/25 I745824<br>27 I74582460 1EGE8 7/2/25 61 I745824  | 93 2F18 7/2/25<br>94 2F22 7/2/25   |
| 28 174582461 1F9B 7/2/25 62 1745824  | 95 2FGE4 7/2/25  |
| 30 174582463 1FGE4 7/2/25 63 1745824   | 90 2F23 7/2/25<br>97 2F15 7/2/25   |
| 31 I74582464 1FGE2 7/2/25 65 I745824<br>32 I74582465 1E2 7/2/25 66 I745824   | 98 2FGR3 7/2/25<br>99 2F12 7/2/25  |
| 174582466 1F5 7/2/25 67 1745825  | 00 2F13 7/2/25   |
| 34 174582487 ZFGETA 7/2/25 88 1745825  | 01 2FGEZA 1/2/25   |
| The truss drawing(s) referenced above have been prepared   | by   |
| Truss Engineering Co. under my direct supervision based of   | n the parameters   |
| provided by Structural, LLC.   | OFESSION   |
| Truss Design Engineer's Name: Galinski, John   | and the second s |
| My license renewal date for the state of North Carolina is I   | December 31, 2025  |
| <b>IMPORIANI NOTE:</b> The seal on these truss component designs that the engineer named is licensed in the jurisdiction(s) identified and the | is a certification   |
| designs comply with ANSI/TPI 1. These designs are based upon param   | leters   |
| shown (e.g., loads, supports, dimensions, shapes and design codes), w<br>given to MiTek or TRENCO. Any project specific information included i | hich were<br>s for MiTek's or  |
| TRENCO's customers file reference purpose only, and was not taken in   | to account in the  |
| applicability of the design parameters or the designs for any particular b   | uilding. Before use,   |
| the building designer should verify applicability of design parameters an  | d properly   |

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.



Galinski, John



RE: 2412-1161-A - Stonefield Rev 3-Elev 1-Floor

Trenco 818 Soundside Rd Edenton, NC 27932

| No.            | Seal#                               | Truss Name                       | Date                                 |
|----------------|-------------------------------------|----------------------------------|--------------------------------------|
| 69             | 174582502                           | 2FGR2                            | 7/2/25                               |
| 70             | 174582503                           | 2FGR3A                           | 7/2/25                               |
| 71             | 174582504                           | 2FGE1                            | 7/2/25                               |
| 72             | 174582506                           | 2FGE3                            | 7/2/25                               |
| 73             | 174582507                           | 2F3C                             | 7/2/25                               |
| 74             | 174582507                           | 2F3D                             | 7/2/25                               |
| 75             | 174582507                           | 1FGR2                            | 7/2/25                               |
| 76             | 174582509                           | 1FGR1                            | 7/2/25                               |
| 77             | 174582509                           | 1F16                             | 7/2/25                               |
| 78             | 174582510                           | 1FGE10                           | 7/2/25                               |
| 79             | 174582511                           | 1F14                             | 7/2/25                               |
| 79<br>80<br>81 | 174582512<br>174582513<br>174582513 | 1FGE10<br>1F14<br>1FGE11<br>1F15 | 7/2/25<br>7/2/25<br>7/2/25<br>7/2/25 |

| Job         | Truss  | Truss Type            | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|--------|-----------------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 2FGE1A | Floor Supported Gable | 3   | 1   | Job Reference (optional)      | 174582467 |

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:35 ID:qGCKSsK?kxul0YoMXJ5aSKy9neL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:31.2

| Loading   |            | (psf)        | Spacing                 | 1-4-0    |                | CSI                    |            | DEFL            | in     | (loc) | l/defl | L/d | PLATES        | GRIP                       |    |
|-----------|------------|--------------|-------------------------|----------|----------------|------------------------|------------|-----------------|--------|-------|--------|-----|---------------|----------------------------|----|
| TCLL      |            | 40.0         | Plate Grip DOL          | 1.00     |                | тс                     | 0.27       | Vert(LL)        | n/a    | -     | n/a    | 999 | MT20          | 244/190                    |    |
| TCDL      |            | 10.0         | Lumber DOL              | 1.00     |                | BC                     | 0.28       | Vert(TL)        | n/a    | -     | n/a    | 999 |               |                            |    |
| BCLL      |            | 0.0          | Rep Stress Incr         | YES      |                | WB                     | 0.05       | Horiz(TL)       | 0.00   | 17    | n/a    | n/a |               |                            |    |
| BCDL      |            | 5.0          | Code                    | IRC202   | 1/TPI2014      | Matrix-R               |            | - ( )           |        |       |        |     | Weight: 76 lb | FT = 20%F. 12 <sup>c</sup> | %E |
|           |            |              |                         |          |                |                        |            |                 |        |       |        |     | - 5           |                            |    |
| LUMBER    |            |              |                         | Т        | OP CHORD       | 1-32=-257/25, 16-1     | 7=-247     | /111, 1-2=-28/  | /7,    |       |        |     |               |                            |    |
| TOP CHORD | 2x4 SP N   | lo.2(flat)   |                         |          | :              | 2-3=-28/7, 3-4=-28/    | 7, 4-5=    | -28/7, 5-6=-28  | 3/7,   |       |        |     |               |                            |    |
| BOT CHORD | 2x4 SP N   | lo.2(flat)   |                         |          | (              | 6-7=-28/7, 7-8=-28/    | 7, 8-10    | =-28/7,         |        |       |        |     |               |                            |    |
| WEBS      | 2x4 SP N   | lo.3(flat)   |                         |          |                | 10-11=-28/7, 11-12     | =-28/7,    | 12-13=-28/7,    |        |       |        |     |               |                            |    |
| OTHERS    | 2x4 SP N   | lo.3(flat)   |                         |          |                | 13-14=-28/7, 14-15     | =-28/7,    | 15-16=-28/7     |        |       |        |     |               |                            |    |
| BRACING   |            |              |                         | В        | OT CHORD       | 31-32=-7/28, 30-31     | =-7/28,    | 29-30=-7/28,    |        |       |        |     |               |                            |    |
| TOP CHORD | Structura  | l wood shea  | athing directly applied | d or     | 1              | 28-29=-7/28, 26-28     | =-7/28,    | 25-26=-7/28,    |        |       |        |     |               |                            |    |
|           | 6-0-0 oc i | purlins, exc | cept end verticals.     |          | 1              | 24-25=-7/28, 23-24     | =-7/28,    | 22-23=-7/28,    |        |       |        |     |               |                            |    |
| BOT CHORD | Rigid ceil | ing directly | applied or 6-0-0 oc     |          | :              | 21-22=-7/28, 20-21     | =-7/28,    | 19-20=-7/28,    |        |       |        |     |               |                            |    |
|           | bracing.   | 0 ,          |                         |          |                | 18-19=-7/28, 17-18     | =-7/28     |                 |        |       |        |     |               |                            |    |
| REACTIONS | (size)     | 17=17-10-    | -0. 18=17-10-0.         | N        | EBS            | 2-31=-268/16, 3-30     | =-269/1    | 4, 4-29=-269/   | /14,   |       |        |     |               |                            |    |
|           | (0.20)     | 19=17-10-    | -0. 20=17-10-0.         |          |                | 5-28=-269/14, 6-26     | =-269/1    | 4, 7-25=-269/   | /14,   |       |        |     |               |                            |    |
|           |            | 21=17-10-    | -0. 22=17-10-0.         |          |                | 3-24=-269/14, 10-2     | 3=-269     | /14,<br>D/4.4   |        |       |        |     |               |                            |    |
|           |            | 23=17-10-    | -0, 24=17-10-0,         |          |                | 11-22=-269/15, 12-     | 21=-26     | 9/14,           |        |       |        |     |               |                            |    |
|           |            | 25=17-10-    | -0, 26=17-10-0,         |          |                | 13-20=-268/14, 14-     | 19=-26     | 9/14,           |        |       |        |     |               |                            |    |
|           |            | 28=17-10-    | -0, 29=17-10-0,         |          |                | 15-18=-262/44          |            |                 |        |       |        |     |               |                            |    |
|           |            | 30=17-10-    | -0, 31=17-10-0,         | N        | OTES           |                        |            |                 |        |       |        |     |               |                            |    |
|           |            | 32=17-10-    | -0                      | 1)       | All plates are | e 1.5x3 (  ) MT20 u    | nless o    | therwise        |        |       |        |     |               |                            |    |
|           | Max Uplift | 17=-118 (    | LC 46), 18=-65 (LC 3    | (4),     | indicated.     |                        |            |                 |        |       |        |     |               |                            |    |
|           | -          | 19=-6 (LC    | 44), 20=-6 (LC 43),     | 2)       | Gable requir   | es continuous botto    | om choi    | d bearing.      |        |       |        |     |               |                            |    |
|           |            | 21=-6 (LC    | 42), 22=-6 (LC 11),     | 3)       | Truss to be f  | ully sheathed from     | one fac    | e or securely   |        |       |        |     |               |                            |    |
|           |            | 23=-6 (LC    | : 40), 24=-6 (LC 39),   |          | braced agair   | ist lateral movemer    | nt (i.e. c | iagonal web).   |        |       |        |     |               |                            |    |
|           |            | 25=-6 (LC    | : 41), 26=-6 (LC 40),   | 4)       | Gable studs    | spaced at 1-4-0 oc     | •          |                 |        |       |        |     |               |                            |    |
|           |            | 28=-6 (LC    | 39), 29=-7 (LC 38),     | 5)       | N/A            |                        |            |                 |        |       |        |     | minin         | 1111                       |    |
|           |            | 30=-6 (LC    | 37), 31=-7 (LC 36),     |          |                |                        |            |                 |        |       |        |     | W'TH CA       | Rollin                     |    |
|           |            | 32=-21 (L    | C 35)                   |          |                |                        |            |                 |        |       |        | 1   | RAVI          | Pull                       |    |
|           | Max Grav   | 17=254 (L    | -C 62), 18=279 (LC 4    | 6),      |                |                        |            |                 |        |       |        | S.  | O'ASS         | Silv 2                     |    |
|           |            | 19=281 (L    | -C 60), 20=279 (LC 5    | 9),      | This trues he  | a haan daalamad fe     |            | ing concepts    | ام م ا |       |        | : < |               | 11: 7 :                    | -  |
|           |            | 21=280 (L    | C 58), 22=280 (LC 5     | 7), 0)   | I his truss ha | is been designed it    | or a mo    | ing concentra   | ated   |       |        |     | Toph Ne       | CLA .                      | -  |
|           |            | 23=280 (L    | -C 56), 24=280 (LC 5    | 5),      | nanels and a   | it all papel points al | au ioua    | Top Chord a     | nd     |       |        |     | 054           | n 1 1                      | 3  |
|           |            | 25=280 (L    | -C 54), 26=280 (LC 5    | 3),      | Bottom Chor    | d nonconcurrent w      | ith any    | other live load | de     |       | =      |     | SEA           | L 💡                        | Ξ  |
|           |            | 28=280 (L    | -C 52), 29=280 (LC 5    | (1), (2) | Recommend      | 2v6 strongbacks        | on edge    | snared at       | us.    |       |        |     | 2867          | 7 :                        | Ξ  |
|           |            | 30=280 (L    | -C 50), 31=280 (LC 4    | 9), ')   | 10-00-00 oc    | and fastened to ea     | ch truse   | with 3-10d      |        |       | -      |     | : 2007        | · · ·                      | Ξ  |
|           |            | 32=263 (L    | .0 48)                  |          | (0 131" X 3")  | nails Strongback       | s to he    | attached to w   | alls   |       |        |     | N             |                            | -  |
| FORCES    | (lb) - Max | dimum Com    | pression/Maximum        |          | at their outer | ends or restrained     | by oth     | er means        | ano    |       |        | · . | ·             | ains                       |    |
|           | lension    |              |                         | 8        | CAUTION F      | o not erect truss b    | ackwar     | ls.             |        |       |        | 1   | O, GINI       | EF Ct                      |    |
|           |            |              |                         |          | DAD CASE(S)    | Standard               |            |                 |        |       |        | 11  | YN            | IN IN                      |    |
|           |            |              |                         | L.       |                | otanuaru               |            |                 |        |       |        |     | 11. L.G.      | AL                         |    |
|           |            |              |                         |          |                |                        |            |                 |        |       |        |     | 111111        | min                        |    |
|           |            |              |                         |          |                |                        |            |                 |        |       |        |     |               | AL 11                      |    |

July 2,2025

Page: 1

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 **ANSUTP11 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)



| Job         | Truss  | Truss Type            | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|--------|-----------------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 2FGE3A | Floor Supported Gable | 3   | 1   | Job Reference (optional)      | 174582468 |

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:36 ID:mfK5tYLFGZ8SFrylek82XIy9neJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:28.2

|   |  |   |   |   |  |  |  |  |  |                       |                             |   | -                                |                                      |             |
|---|--|---|---|---|--|--|--|--|--|-----------------------|-----------------------------|---|----------------------------------|--------------------------------------|-------------|
| Loading<br>TCLL<br>TCDL<br>BCLL<br>BCDL   |  | (psf)<br>40.0<br>10.0<br>0.0<br>5.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 1-4-0<br>1.00<br>1.00<br>NO<br>IRC202   | 21/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-R  | 0.33<br>0.31<br>0.92   | DEFL<br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)  | in<br>n/a<br>n/a<br>0.00   | (loc)<br>-<br>-<br>16 | 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: 118 lb | <b>GRIP</b><br>244/190<br>FT = 20%F. | 12%E        |
|   |  | 0.0   | 0000  |   |  |  |  | =  |  |                       |                             |   | Trongina Trono                   |                                      | .2702       |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD | 2x4 SP N<br>2x4 SP N<br>2x4 SP N<br>2x4 SP N<br>Structura<br>6-0-0 oc<br>Rigid ceil<br>bracing                       | lo.2(flat)<br>lo.2(flat)<br>lo.3(flat)<br>lo.3(flat)<br>l wood shea<br>purlins, exc<br>ing directly   | athing directly applie<br>cept end verticals.<br>applied or 6-0-0 oc  | V<br>ed or 1<br>2<br>3  | VEBS 2<br>(OTES<br>) All plates are<br>indicated.<br>) Gable requir<br>) Truss to be f   | 2-29=-269/15, 3-2<br>5-25=-269/14, 6-2<br>3-22=-268/14, 10-3<br>12-19=-295/0, 13-<br>1.5x3 (  ) MT20<br>es continuous bottully sheathed from   | 8=-268/1<br>4=-269/1<br>21=-271,<br>18=-423<br>unless or<br>tom chor   | 4, 4-27=-269<br>4, 7-23=-269<br>11, 11-20=-2<br>I/0, 14-17=-3<br>herwise<br>d bearing.<br>e or securely  | /14,<br>/15,<br>:58/24,<br>:03/0                                 |                       |                             |   |                                  |                                      |             |
| REACTIONS   | (size)<br>Max Uplift<br>Max Grav   | 16=16-8-4<br>19=16-8-4<br>22=16-8-4<br>25=16-8-4<br>29=16-8-4<br>16=-94 (Ll<br>21=-3 (LC<br>23=-6 (LC<br>23=-6 (LC<br>28=-5 (LC<br>30=-20 (Ll<br>16=233 (Ll<br>18=4242 (l<br>20=269 (Ll<br>22=279 (Ll<br>22=279 (Ll<br>27=280 (Ll<br>29=282 (Ll | $\begin{array}{c} \text{I}, 17 = 16 \cdot 8 \cdot 4, 18 = 16 \cdot 16$  | -8-4, 4<br>-8-4, 5<br>-8-4, 5<br>-8-4, 7<br>7), 6<br>42), 7<br>5:53), 5<br>51), 4<br>9), 4<br>45), 8<br>43) | <ul> <li>braced again</li> <li>Gable studs</li> <li>Provide mec</li> <li>bearing plate</li> <li>30, 94 lb upli</li> <li>at joint 28, 5</li> <li>uplift at joint 22, 3 lb uplift</li> <li>Load case(s)</li> <li>designer musifor the intending</li> <li>This truss had load of 250.0</li> <li>panels and a</li> <li>Bottom Chor</li> <li>Recommend</li> <li>10-00.00 cc</li> <li>(0.131" X 3")</li> </ul> | ist lateral moveme<br>spaced at 1-4-0 of<br>hanical connection<br>e capable of withst<br>ff at joint 16, 5 b of<br>b uplift at joint 27<br>24, 6 lb uplift at joint 27<br>24, 7 lb uplift at joint 27<br>24, 7 lb uplift at joint 27<br>24, 7 lb uplift at joint 27<br>24, 8 lb uplift at joint 27<br>24, 8 lb uplift at joint 27<br>24, 8 lb uplift at jo | ent (i.e. c<br>c.<br>n (by oth<br>anding 2<br>uplift at jc<br>, 6 lb uplift<br>modifier<br>verify th<br>ss.<br>for a mov<br>lead loca<br>along the<br>with any<br>on edge<br>ach truss<br>ks to be | iagonal web)<br>ers) of truss t<br>0 lb uplift at jo<br>int 29, 5 lb u<br>iff at joint 25,<br>1b uplift at joint 25,<br>1b uplift at joint 20.<br>1. Building<br>at they are co<br>ving concentri-<br>ted at all mid<br>Top Chord a<br>other live loa<br>other live loa<br>with 3-10d<br>attached to w | o<br>oint<br>plift<br>8 lb<br>nt<br>rrrect<br>ated<br>and<br>ds. |                       |                             | A. C. | OR. JESS                         | ROLINA                               |             |
| FORCES  | (lb) - Max<br>Tension  | kimum Com   | pression/Maximum  | Ľ   | at their outer<br>OAD CASE(S)  | ends or restraine<br>Standard  | d by othe  | er means.  |  |                       |                             | -   | IN SL                            | as:                                  |             |
| TOP CHORD<br>BOT CHORD  | 1-30=-25<br>2-3=-24/8<br>6-7=-24/8<br>10-11=-2<br>13-14=-2<br>29-30=-8<br>25-27=-8<br>22-23=-8<br>19-20=-8<br>16-178 | 9/24, 15-16<br>3, 3-4=-24/8<br>3, 7-8=-24/8<br>4/8, 11-12=<br>4/8, 11-12=<br>1/24, 28-29=<br>1/24, 28-29=<br>1/24, 24-25=<br>1/24, 18-19=<br>1/24, 18-19=<br>1/24   | i=-227/99, 1-2=-24/8<br>8, 4-5=-24/8, 5-6=-24<br>8, 8-10=-24/8,<br>-24/8, 12-13=-24/8,<br>-24/8<br>-8/24, 27-28=-8/24,<br>-8/24, 23-24=-8/24,<br>-8/24, 20-21=-8/24,<br>-8/24, 17-18=-8/24, | s, 1<br>4/8,  | ) Dead + Flor<br>Plate Increa<br>Uniform Loa<br>Vert: 16-<br>Concentrate<br>Vert: 13=  | or Live (balanced)<br>ase=1.00<br>ads (lb/ft)<br>30=-7, 1-15=-67<br>ed Loads (lb)<br>4000  | : Lumbe  | Increase=1.  | 00,  |                       | 1111111                     | J. J  | SEA<br>2867                      | FR.SA                                | annun annun |
|   | 16-17=-8   | /24   |   |   |  |  |  |  |  |                       |                             |   | Jul                              | y 2,2025                             |             |



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 **ANSUTP11 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)

| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 2F1A  | Floor      | 3   | 1   | Job Reference (optional)      | 174582469 |



Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:29

Plate Offsets (X, Y): [19:0-1-8,Edge]

Scale = 1:39.2

| Loading  | (psf)   | Spacing<br>Plate Grip DOI                     | 1-7-3     |   | CSI   | 0.63  | DEFL   | in<br>-0.32 | (loc) | l/defl | L/d | PLATES        | <b>GRIP</b> |      |
|--|---|---|-----------|---|---|---|--|-------------|-------|--------|-----|---------------|-------------|------|
| TCDI   | 40.0  |   | 1.00      |   | BC  | 0.03  | Vert(CT)   | -0.32       | 17-18 | >483   | 360 | MT20113       | 244/190     |      |
| BCLI   | 0.0   | Rep Stress Incr                               | YES       |   | WB  | 0.30  | Horz(CT)   | 0.45        | 17 10 | n/a    | n/a | W120          | 244/100     |      |
| BCDL   | 5.0   | Code  | IRC2021   | I/TPI2014   | Matrix-S  | 0   |  | 0.00        |       |        |     | Weight: 92 lb | FT = 20%F.  | 12%E |
| -  |   |   |           |   |   |   |  |             | -     |        |     | - 5           |             |      |
| LUMBER<br>TOP CHORD<br>BOT CHORD                   | <ul> <li>2x4 SP No.2(flat) *E<br/>(flat)</li> <li>2x4 SP SS(flat) *Exc</li> </ul> | :xcept* 7-1:2x4 SP SS<br>cept* 16-13:2x4 SP N | 4)<br>6   | Recommend<br>10-00-00 oc<br>(0.131" X 3")<br>at their outer | 2x6 strongbacks, of and fastened to ea nails. Strongback ends or restrained | on edge<br>ch truss<br>s to be<br>l by othe | e, spaced at<br>with 3-10d<br>attached to w<br>er means. | alls        |       |        |     |               |             |      |
|  | (flat)  |   | 5)        | CAUTION, D  | o not erect truss b   | ackward                                     | ls.  |             |       |        |     |               |             |      |
| WEBS<br>OTHERS                                     | 2x4 SP No.3(flat)<br>2x4 SP No.3(flat)  |   | LC        | DAD CASE(S)   | Standard  |   |  |             |       |        |     |               |             |      |
| BRACING  | 2/// 0/ //0/0(ildi)   |   |           |   |   |   |  |             |       |        |     |               |             |      |
| TOP CHORD  | Structural wood she   | athing directly applie                        | d or      |   |   |   |  |             |       |        |     |               |             |      |
|  | 6-0-0 oc purlins, ex  | cept end verticals.                           |           |   |   |   |  |             |       |        |     |               |             |      |
| BUICHURD   | bracing. Except:  | applied or 10-0-0 oc                          |           |   |   |   |  |             |       |        |     |               |             |      |
|  | 2-2-0 oc bracing: 15  | 5-17.   |           |   |   |   |  |             |       |        |     |               |             |      |
| REACTIONS  | (size) 13=0-3-8   | , 22=0-3-8                                    |           |   |   |   |  |             |       |        |     |               |             |      |
|  | Max Grav 13=788 (I  | LC 1), 22=783 (LC 1)                          |           |   |   |   |  |             |       |        |     |               |             |      |
| FORCES   | (lb) - Maximum Com  | npression/Maximum                             |           |   |   |   |  |             |       |        |     |               |             |      |
|  | l ension<br>1-22=-263/18 12-13  | 3=-256/50 1-2=-16/1                           |           |   |   |   |  |             |       |        |     |               |             |      |
|  | 2-3=-1904/0, 3-4=-3   | 3153/0, 4-5=-3153/0,                          |           |   |   |   |  |             |       |        |     |               |             |      |
|  | 5-6=-3153/0, 6-8=-3   | 8288/0, 8-9=-2693/0,                          |           |   |   |   |  |             |       |        |     |               |             |      |
|  | 9-10=-2693/0, 10-11   | 1=-1531/0, 11-12=0/0                          | 520       |   |   |   |  |             |       |        |     |               |             |      |
|  | 18-19=0/3153, 17-1  | 8=0/3393, 15-17=0/3                           | 098.      |   |   |   |  |             |       |        |     |               | 1111        |      |
|  | 14-15=0/2207, 13-1  | 4=0/825                                       |           |   |   |   |  |             |       |        |     | TH CA         | ROUL        |      |
| WEBS   | 4-19=-392/23, 5-18=   | =-100/215, 2-20=0/77                          | 2,        |   |   |   |  |             |       |        | 5   | ON            | il Ini      | 2    |
|  | 3-20=-827/0, 3-19=0   | 0/918, 2-21=-61/263,<br>2- 1124/0 11 14-0/0   | 10        |   |   |   |  |             |       |        | 32  | in the second | 13.7        | 2    |
|  | 10-14=-881/0, 10-15   | 5=0/620, 9-15=-262/5                          | 19,<br>7. |   |   |   |  |             |       |        |     | . AN          | - K .       | -    |
|  | 8-15=-517/0, 8-17=-   | -46/344, 6-17=-204/1                          | 70,       |   |   |   |  |             |       | =      |     | SEA           | r 1.        | 1    |
|  | 6-18=-473/176   |   |           |   |   |   |  |             |       | =      |     | JLA           | <u>-</u> :  | =    |
| NOTES  |   |   |           |   |   |   |  |             |       | = =    | - 1 | 2867          | 1 :         | Ξ    |
| <ol> <li>Unbalance</li> <li>this desire</li> </ol> | ced floor live loads have   | e been considered for                         |           |   |   |   |  |             |       |        |     | N             | 1.1         | Ξ    |
| 2) All plates                                      | are MT20 plates unles   | s otherwise indicated                         | L         |   |   |   |  |             |       | 6      | 2.0 | . En          | Rin         | 5    |
| <ol> <li>This truss</li> </ol>                     | s has been designed fo  | r a moving concentra                          | ted       |   |   |   |  |             |       |        | 1   | OL GIN        | EF. St.     | 5    |
| load of 2  | 50.0lb live and 3.0lb de  | ad located at all mid                         |           |   |   |   |  |             |       |        | 1   | NIC           | ALIN        |      |
| panels ar  | nd at all panel points ale  | ong the Top Chord ar                          | nd        |   |   |   |  |             |       |        |     | 1111.0        | in in it    |      |
| DUILUITI C   | mora, nonconcurrent w   | iur any outer live 1080                       | э.        |   |   |   |  |             |       |        |     |               | L 2 2025    |      |
|  |   |   |           |   |   |   |  |             |       |        |     |               |             |      |

July 2,2025

Page: 1



| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 2F24  | Floor      | 15  | 1   | Job Reference (optional)      | 174582470 |

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:35 Page: 1 ID:xERO2g4qgUEj?JhKoPDf6uy9neg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





1-0-0

16-8-4

| Loading       | (psf)                                     | Spacing  | 1-4-0           | CSI      |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES  | GRIP                 |
|---------------|---|--|-----------------|----------|------|----------|-------|-------|--------|-----|---|----------------------|
| TCLL          | 40.0                                      | Plate Grip DOL   | 1.00            | TC       | 0.79 | Vert(LL) | -0.26 | 17-18 | >763   | 480 | MT20  | 244/190              |
| TCDL          | 10.0                                      | Lumber DOL   | 1.00            | BC       | 0.63 | Vert(CT) | -0.36 | 17-18 | >556   | 360 |   |                      |
| BCLL          | 0.0                                       | Rep Stress Incr  | YES             | WB       | 0.38 | Horz(CT) | 0.04  | 12    | n/a    | n/a |   |                      |
| BCDL          | 5.0                                       | Code   | IRC2021/TPI2014 | Matrix-S |      |          |       |       |        |     | Weight: 87 lb   | FT = 20%F, 12%E      |
| LUMBER        |   |  | LOAD CASE(S)    | Standard |      |          |       |       |        |     |   |                      |
| TOP CHORD     | 2x4 SP No.2(flat)                         |  |                 |          |      |          |       |       |        |     |   |                      |
| BOT CHORD     | 2x4 SP SS(flat) *Exc                      | cept* 14-12:2x4 SP   | No.2            |          |      |          |       |       |        |     |   |                      |
|               | (flat)                                    |  |                 |          |      |          |       |       |        |     |   |                      |
| WEBS          | 2x4 SP No.3(flat)                         |  |                 |          |      |          |       |       |        |     |   |                      |
| BRACING       |   |  |                 |          |      |          |       |       |        |     |   |                      |
| TOP CHORD     | Structural wood she                       | athing directly appli  | ed or           |          |      |          |       |       |        |     |   |                      |
|               | 5-10-6 oc purlins, e                      | xcept end verticals.   |                 |          |      |          |       |       |        |     |   |                      |
| BOT CHORD     | Rigid ceiling directly                    | applied or 10-0-0 o  | С               |          |      |          |       |       |        |     |   |                      |
| DEACTIONS     | (aiza) 40 Maah                            |  |                 |          |      |          |       |       |        |     |   |                      |
| REACTIONS     | (SIZE) 12= IVIECH                         | nanical, 22=0-3-8  | 1               |          |      |          |       |       |        |     |   |                      |
|               |   | LC 1), 22=603 (LC 1  | )               |          |      |          |       |       |        |     |   |                      |
| FORCES        | (lb) - Maximum Com                        | pression/Maximum   |                 |          |      |          |       |       |        |     |   |                      |
|               | I ension                                  |  |                 |          |      |          |       |       |        |     |   |                      |
| TOP CHORD     | 1-22=-256/34, 11-12                       | 2 = -265/23, 1 - 2 = 0/0, 0 = -265/23, 1 - 2 = 0/0, 0 = -265/23, 1 - 2 = 0/0, 0 = -265/23, 1 - 265/23, 1 - 265/25, 1 - 265/23, 1 - 265/25 |                 |          |      |          |       |       |        |     |   |                      |
|               | 2-3=-1072/0, 3-4=-1<br>5 7_ 2258/0 7 8_ 2 | 072/0, 4-3=-1911/0, 005/0, 005/0, 00-2005/0  |                 |          |      |          |       |       |        |     |   |                      |
|               | 0-10-1/33/0 10-11                         | .095/0, 0-9=-2095/0,<br>I=0/0  |                 |          |      |          |       |       |        |     |   |                      |
| BOT CHORD     | 21-22=0/453 20-21                         | =0/1590 19-20=0/2  | 221             |          |      |          |       |       |        |     |   |                      |
| 201 0110112   | 18-19=0/2221, 17-18                       | 8=0/2369, 16-17=0/   | 2095.           |          |      |          |       |       |        |     |   |                      |
|               | 15-16=0/2095, 13-1                        | 5=0/944. 12-13=0/9   | 44              |          |      |          |       |       |        |     |   |                      |
| WEBS          | 8-17=-108/188, 9-16                       | 5=-27/298, 2-22=-73  | 6/0,            |          |      |          |       |       |        |     |   |                      |
|               | 4-21=-662/0, 4-20=0                       | )/418, 5-20=-395/89  | ,<br>,          |          |      |          |       |       |        |     |   | • 117 A.P            |
|               | 5-19=-116/222, 5-18                       | 3=-84/405,   |                 |          |      |          |       |       |        |     | , in the second | unin,                |
|               | 7-18=-144/221, 7-17                       | 7=-490/98, 10-15=0/  | 624,            |          |      |          |       |       |        |     | "TH CA  | ROUM                 |
|               | 9-15=-849/0, 10-13=                       | =-17/265, 10-12=-10  | 089/0,          |          |      |          |       |       |        | 1   | R   | in the second second |
|               | 3-21=-258/70, 2-21=                       | =0/790   |                 |          |      |          |       |       |        |     | U. FESS   | O'V'                 |
| NOTES         |   |  |                 |          |      |          |       |       |        | 35  | 441   | Usi.Y -              |
| 1) Unbalance  | ed floor live loads have                  | e been considered fo   | or              |          |      |          |       |       | 2      |     | 1x -  | - K - 2              |
| this desigr   | n.  |  |                 |          |      |          |       |       |        |     | CEA   | 1 1 2                |
| 2) Refer to g | irder(s) for truss to trus                | ss connections.  |                 |          |      |          |       |       | =      | :   | SEA   | - : :                |
| 3) This truss | has been designed for                     | r a moving concentr  | ated            |          |      |          |       |       | =      | :   | 2867  | 77 : 2               |
| load of 25    | 0.0lb live and 3.0lb dea                  | ad located at all mid  |                 |          |      |          |       |       |        | 1 A |   | 1 I I I              |

panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads. 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.





| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 2F1   | Floor      | 12  | 1   | Job Reference (optional)      | 174582471 |



Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:29

Scale = 1:39.2

# Plate Offsets (X, Y): [19:0-1-8,Edge]

| Loading<br>TCLL<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>40.0<br>10.0<br>0.0<br>5.0   | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code                                      | 1-4-0<br>1.00<br>1.00<br>YES<br>IRC2021/T | PI2014  | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-S   | 0.77<br>0.93<br>0.36                                      | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)                          | in<br>-0.30<br>-0.41<br>0.05 | (loc)<br>17-18<br>17-18<br>13 | l/defl<br>>728<br>>528<br>n/a | L/d<br>480<br>360<br>n/a | PLATES<br>MT20HS<br>MT20<br>Weight: 92 lb | <b>GRIP</b><br>187/143<br>244/190<br>FT = 20%F, 12%E |  |
|---|---|--|---|---|--|---|---|------------------------------|-------------------------------|-------------------------------|--------------------------|---|--|--|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD | 2x4 SP No.2(flat)<br>2x4 SP SS(flat) *Exc<br>(flat)<br>2x4 SP No.3(flat)<br>2x4 SP No.3(flat)<br>2x4 SP No.3(flat)<br>Structural wood shea<br>5-9-13 oc purlins, ex<br>Rigid ceiling directly<br>bracing, Except:<br>2-2-0 oc bracing: 15 | ept* 16-13:2x4 SP N<br>athing directly applie<br>xcept end verticals.<br>applied or 10-0-0 oc                  | 4) F<br>1<br>No.2 (<br>2<br>5) C<br>LOA   | Recommend<br>10-00-00 cc :<br>0.131" X 3")<br>at their outer<br>CAUTION, D<br>D CASE(S) | 2x6 strongbacks,<br>and fastened to er<br>nails. Strongbaci<br>ends or restraine<br>o not erect truss to<br>Standard | on edge<br>ach truss<br>(s to be<br>d by othe<br>backward | e, spaced at<br>with 3-10d<br>attached to war<br>er means.<br>Is. | alls                         |                               |                               |                          |   |  |  |
| REACTIONS   | (size) 13=0-3-8,<br>Max Grav 13=657 (L  | 22=0-3-8<br>.C 1), 22=653 (LC 1)   | )   |   |  |   |   |                              |                               |                               |                          |   |  |  |
| FORCES  | (lb) - Maximum Com  | pression/Maximum   |   |   |  |   |   |                              |                               |                               |                          |   |  |  |
| TOP CHORD   | 1-22=-261/20, 12-13<br>2-3=-1584/0, 3-4=-20<br>5-6=-2627/0, 6-8=-27<br>9-10=-2244/0, 10-11  | =-256/50, 1-2=-16/1<br>627/0, 4-5=-2627/0,<br>741/0, 8-9=-2244/0,<br>=-1276/0, 11-12=0/0                       | ,<br>)                                    |   |  |   |   |                              |                               |                               |                          |   |  |  |
| BOT CHORD   | 21-22=0/1084, 20-21<br>18-19=0/2627, 17-18<br>14-15=0/1839, 13-14   | I=0/1084, 19-20=0/2<br>3=0/2821, 15-17=0/2<br>4=0/687  | 121,<br>583,                              |   |  |   |   |                              |                               |                               |                          |   | unin.  |  |
| WEBS  | 4-19=-302/39, 5-18=<br>3-20=-699/0, 3-19=-2<br>2-22=-1240/0, 11-13<br>10-14=-734/0, 10-15<br>8-15=-442/21, 8-17=<br>6-18=-438/163   | 115/186, 2-20=0/63<br>29/757, 2-21=-65/26<br>=-937/0, 11-14=0/76<br>=0/516, 9-15=-260/5<br>-57/333, 6-17=-189/ | 38,<br>1,<br>56,<br>59,<br>180,           |   |  |   |   |                              |                               |                               | New York                 | OR TH CA                                  |  |  |

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

2) All plates are MT20 plates unless otherwise indicated. 3) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.



July 2,2025

Page: 1



| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 2F2   | Floor      | 3   | 1   | Job Reference (optional)      | 174582472 |

 Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:29
 Page: 1

 ID:?rJed?2Z9t\_?l0Yxg\_BB1Ty9nei-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f
 Page: 1





1-0-0 14-10-0

Scale = 1:36.8

| Scale = | 1.30.8   |                           |                         |                 |          |      |          |       |       |        |     |  |  |          |
|---------|----------|---------------------------|-------------------------|-----------------|----------|------|----------|-------|-------|--------|-----|--|--|----------|
| Loading | 3        | (psf)                     | Spacing                 | 1-4-0           | CSI      |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES   | GRIP   |          |
| TCLL    |          | 40.0                      | Plate Grip DOL          | 1.00            | TC       | 0.62 | Vert(LL) | -0.16 | 12-13 | >999   | 480 | MT20   | 244/190  |          |
| TCDL    |          | 10.0                      | Lumber DOL              | 1.00            | BC       | 0.46 | Vert(CT) | -0.20 | 12-13 | >870   | 360 |  |  |          |
| BCLL    |          | 0.0                       | Rep Stress Incr         | YES             | WB       | 0.24 | Horz(CT) | 0.02  | 10    | n/a    | n/a |  |  |          |
| BCDL    |          | 5.0                       | Code                    | IRC2021/TPI2014 | Matrix-S |      |          |       |       |        |     | Weight: 76 lb  | FT = 20%F, 12  | 2%E      |
| LUMBE   | R        |                           | •                       | LOAD CASE(S)    | Standard |      |          |       |       |        |     |  |  |          |
| TOP CH  | IORD     | 2x4 SP No.2(flat)         |                         |                 |          |      |          |       |       |        |     |  |  |          |
| ВОТ СН  | IORD     | 2x4 SP SS(flat)           |                         |                 |          |      |          |       |       |        |     |  |  |          |
| NEBS    |          | 2x4 SP No.3(flat)         |                         |                 |          |      |          |       |       |        |     |  |  |          |
| OTHER   | S        | 2x4 SP No.3(flat)         |                         |                 |          |      |          |       |       |        |     |  |  |          |
| BRACIN  | IG       |                           |                         |                 |          |      |          |       |       |        |     |  |  |          |
| TOP CH  | IORD     | Structural wood she       | athing directly applie  | ed or           |          |      |          |       |       |        |     |  |  |          |
|         |          | 6-0-0 oc purlins, ex      | cept end verticals.     |                 |          |      |          |       |       |        |     |  |  |          |
| зот сн  | IORD     | Rigid ceiling directly    | applied or 10-0-0 or    | C               |          |      |          |       |       |        |     |  |  |          |
|         |          | bracing.                  |                         |                 |          |      |          |       |       |        |     |  |  |          |
| REACTI  | ONS      | (size) 10=0-3-8.          | 17=0-3-8                |                 |          |      |          |       |       |        |     |  |  |          |
|         |          | Max Grav 10=535 (L        | LC 1). 17=531 (LC 1)    | )               |          |      |          |       |       |        |     |  |  |          |
| FORCE   | s        | (lb) - Maximum Com        | noression/Maximum       | ,               |          |      |          |       |       |        |     |  |  |          |
| 0.10-   | -        | Tension                   | iprocolori, maximan     |                 |          |      |          |       |       |        |     |  |  |          |
| ГОР СН  | IORD     | 1-17=-262/19, 9-10=       | =-262/4, 1-2=-16/1,     |                 |          |      |          |       |       |        |     |  |  |          |
|         |          | 2-3=-1238/0, 3-4=-1       | 833/0, 4-5=-1833/0,     |                 |          |      |          |       |       |        |     |  |  |          |
|         |          | 5-6=-1833/0, 6-7=-1       | 506/0, 7-8=-740/0,      |                 |          |      |          |       |       |        |     |  |  |          |
|         |          | 8-9=0/0                   |                         |                 |          |      |          |       |       |        |     |  |  |          |
| BOT CH  | IORD     | 16-17=0/861, 15-16        | =0/861, 14-15=0/159     | 98,             |          |      |          |       |       |        |     |  |  |          |
|         |          | 13-14=0/1833, 12-1        | 3=0/1760, 11-12=0/1     | 1216,           |          |      |          |       |       |        |     |  |  |          |
|         |          | 10-11=0/740               |                         |                 |          |      |          |       |       |        |     |  |  |          |
| NEBS    |          | 4-14=-209/83, 5-13=       | -172/120, 2-15=0/55     | 50,             |          |      |          |       |       |        |     |  |  |          |
|         |          | 3-15=-468/0, 3-14=-       | 152/443, 2-16=-73/2     | 254,            |          |      |          |       |       |        |     |  | 115. C   |          |
|         |          | 2-17=-984/0, 8-11=0       | 0/388, 7-11=-607/0,     |                 |          |      |          |       |       |        |     |  | in the second se |          |
|         |          | 7-12=0/424, 6-12=-3       | 331/53, 6-13=-251/30    | 08,             |          |      |          |       |       |        |     | IN TH UA   | Roite  |          |
|         |          | 8-10=-883/0               |                         |                 |          |      |          |       |       |        | 1   | A. the   | 1. 411 12  |          |
| NOTES   |          |                           |                         |                 |          |      |          |       |       |        |     | 0  | Pille  | <u>.</u> |
| 1) Unb  | alance   | ed floor live loads have  | e been considered fo    | or              |          |      |          |       |       |        | 5 1 | AL IS  | MALY   | -        |
| this    | design   | ).                        |                         |                 |          |      |          |       |       |        |     | 770 / -  |  | -        |
| 2) Allp | lates a  | are 3x3 (=) MT20 unle     | ess otherwise indicat   | ted.            |          |      |          |       |       |        |     | SEA  | r 1  | =        |
| 3) This | truss    | has been designed fo      | r a moving concentra    | ated            |          |      |          |       |       | =      | :   | SLA  | - :  | - 2      |
| load    | l of 250 | 0.0lb live and 3.0lb dea  | ad located at all mid   |                 |          |      |          |       |       | =      | :   | 2867   | 77 :   | -        |
| pan     | els anc  | d at all panel points alo | ong the Top Chord a     | ind             |          |      |          |       |       |        |     |  |  | 2        |
| Bott    | om Ch    | ord, nonconcurrent wi     | ith any other live load | ds.             |          |      |          |       |       |        | -   | N  |  | -        |
| 4) Rec  | ommei    | nd 2x6 strongbacks, o     | on edge, spaced at      |                 |          |      |          |       |       |        | 20  | S.ENO  | -ERIN:   |          |
| 10-0    | 00-00 c  | oc and fastened to eac    | ch truss with 3-10d     |                 |          |      |          |       |       |        | 1   | OL GIN   | EF. G  |          |
| (0.1    | 31" X 3  | 3") nails. Strongbacks    | to be attached to wa    | alls            |          |      |          |       |       |        | 1   | NIS  | 11111  |          |
| at th   | er out   | ter ends or restrained    | by other means.         |                 |          |      |          |       |       |        |     | 111. L. G  | AL   |          |
| b) CAL  | J ION,   | , Do not erect truss ba   | ickwards.               |                 |          |      |          |       |       |        |     | in the second se | in the second  |          |
|         |          |                           |                         |                 |          |      |          |       |       |        |     | Ju   | ly 2,2025  |          |



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 **ANSUTP11 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)

| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |          |  |  |  |
|-------------|-------|------------|-----|-----|-------------------------------|----------|--|--|--|
| 2412-1161-A | 2F25  | Floor      | 9   | 1   | Job Reference (optional)      | 74582473 |  |  |  |

Structural LLC Thurmont MD - 21788

Loading

TCLL

TCDI

BCLL

BCDL

WEBS

FORCES

WEBS

NOTES

1)

2) 3)

4)



July 2,2025

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 BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 2F2A  | Floor      | 6   | 1   | Job Reference (optional)      | 174582474 |

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:30 Page: 1 ID:bX9xZnDLsAl0R9cdVwRTbQy9neU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





1-0-0 14-10-0

Scale = 1:36.8

| Scale = 1:36.8   |  |  |   |   |  |                              |                               |                               |  |                                 |   |   |
|--|--|--|---|---|--|------------------------------|-------------------------------|-------------------------------|--|---------------------------------|---|---|
| Loading<br>TCLL<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>40.0<br>10.0<br>0.0<br>5.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 1-7-3<br>1.00<br>1.00<br>YES<br>IRC2021/TPI2014 | CSI           TC         0.63           BC         0.47           WB         0.29           Matrix-S         0.29 | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in<br>-0.16<br>-0.21<br>0.03 | (loc)<br>12-13<br>12-13<br>10 | l/defl<br>>999<br>>836<br>n/a | L/d<br>480<br>360<br>n/a   | PLATES<br>MT20<br>Weight: 76 lb | <b>GRIP</b><br>244/190<br>FT = 20%F, 12%E | - |
| 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(flat)<br>2x4 SP SS(flat)<br>2x4 SP No.3(flat)<br>2x4 SP No.3(flat)<br>2x4 SP No.3(flat)<br>Structural wood she<br>6-0-0 oc purlins, ext<br>Rigid ceiling directly<br>bracing.<br>(size) 10=0-3-8,  | athing directly applie<br>cept end verticals.<br>applied or 10-0-0 oc<br>17=0-3-8  | d or  | Standard  |  |                              |                               |                               |  |                                 |   |   |
| FORCES   | $\begin{array}{l} \textbf{(b)} & (b)$ |  |   |   |  |                              |                               |                               |  |                                 |   |   |
| BOT CHORD<br>WEBS  | 16-17=0/1033, 15-16<br>13-14=0/2200, 12-13<br>10-11=0/888<br>4-14=-226/77, 5-13=<br>3-15=-562/0, 3-14=-<br>2-17=-1181/0, 8-11=<br>7-12=0/453, 6-12=-3<br>8-10=-1059/0  | 6=0/1033, 14-15=0/1<br>3=0/2112, 11-12=0/1<br>174/118, 2-15=0/57<br>134/531, 2-16=-71/2<br>-0/465, 7-11=-729/0,<br>997/37, 6-13=-245/35  | 918,<br>459,<br>'9,<br>56,<br>'8,               |   |  |                              |                               |                               |  | TH CA                           | RONT                                      |   |
| NOTES<br>1) Unbalance,<br>this design<br>2) All plates a<br>3) This truss f<br>load of 250<br>panels and<br>Bottom Che<br>4) Recommer<br>10-00-00 o<br>(0.131" X 3<br>at their outo<br>5) CAUTION, | d floor live loads have<br>re 3x3 (=) MT20 unle<br>has been designed foi<br>lolb live and 3.0lb dea<br>at all panel points alc<br>ord, nonconcurrent wi<br>nd 2x6 strongbacks, o<br>c and fastened to eac<br>") nails. Strongbacks<br>er ends or restrained I<br>Do not erect truss ba   | e been considered for<br>ess otherwise indicate<br>r a moving concentra<br>ad located at all mid<br>ong the Top Chord ar<br>th any other live load<br>in edge, spaced at<br>th truss with 3-10d<br>to be attached to wa<br>by other means.<br>ckwards. | r<br>ted<br>nd<br>Is.                           |   |  |                              |                               |                               | Service Servic | SEA<br>2867                     | ER Stun                                   |   |

July 2,2025

| 🔺 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.or | J) |
| and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)   |    |



| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 2F3A  | Floor      | 4   | 1   | Job Reference (optional)      | 174582475 |

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:30

Structural, LLC, Thurmont, MD - 21788.





1-0-0 15-10-0

| Scale = | 1:36.8 |
|---------|--------|
|---------|--------|

| Loading                      | (psf)                    | Spacing                | 1-7-3           | csi      |      | DEFL     | in    | (loc) | l/defl | L/d   | PLATES        | GRIP   |
|------------------------------|--------------------------|------------------------|-----------------|----------|------|----------|-------|-------|--------|-------|---------------|--|
| TCLL                         | 40.0                     | Plate Grip DOL         | 1.00            | тс       | 0.63 | Vert(LL) | -0.19 | 13-14 | >993   | 480   | MT20          | 244/190  |
| TCDL                         | 10.0                     | Lumber DOL             | 1.00            | BC       | 0.50 | Vert(CT) | -0.26 | 13-14 | >723   | 360   |               |  |
| BCLL                         | 0.0                      | Rep Stress Incr        | YES             | WB       | 0.39 | Horz(CT) | 0.04  | 11    | n/a    | n/a   |               |  |
| BCDL                         | 5.0                      | Code                   | IRC2021/TPI2014 | Matrix-S |      | - (- )   |       |       |        |       | Weight: 81 lb | FT = 20%F, 12%E  |
| LUMBER                       |                          |                        |                 |          |      |          |       |       |        |       |               |  |
| TOP CHORD                    | 2x4 SP No.2(flat)        |                        |                 |          |      |          |       |       |        |       |               |  |
| BOT CHORD                    | 2x4 SP SS(flat)          |                        |                 |          |      |          |       |       |        |       |               |  |
| WEBS                         | 2x4 SP No.3(flat)        |                        |                 |          |      |          |       |       |        |       |               |  |
| OTHERS                       | 2x4 SP No.3(flat)        |                        |                 |          |      |          |       |       |        |       |               |  |
| BRACING                      |                          |                        |                 |          |      |          |       |       |        |       |               |  |
| TOP CHORD                    | Structural wood she      | athing directly applie | d or            |          |      |          |       |       |        |       |               |  |
|                              | 6-0-0 oc purlins, ex     | cept end verticals.    |                 |          |      |          |       |       |        |       |               |  |
| BOT CHORD                    | Rigid ceiling directly   | applied or 10-0-0 oc   | ;               |          |      |          |       |       |        |       |               |  |
|                              |                          | 10.000                 |                 |          |      |          |       |       |        |       |               |  |
| REACTIONS                    | (SIZE) 11=0-3-8          | , 18=0-3-8             |                 |          |      |          |       |       |        |       |               |  |
|                              |                          | LC I), 18=680 (LC I)   |                 |          |      |          |       |       |        |       |               |  |
| FORCES                       | (lb) - Maximum Con       | pression/Maximum       |                 |          |      |          |       |       |        |       |               |  |
| TOP CHORD                    | 1-18=-263/18 10-1        | 1=-261/10 1-2=-16/1    |                 |          |      |          |       |       |        |       |               |  |
|                              | 2-3=-1609/0 3-4=-2       | 485/0 4-5=-2485/0      | ,               |          |      |          |       |       |        |       |               |  |
|                              | 5-6=-2485/0, 6-7=-2      | 251/0. 7-8=-1426/0.    |                 |          |      |          |       |       |        |       |               |  |
|                              | 8-9=-1426/0. 9-10=0      | 0/0                    |                 |          |      |          |       |       |        |       |               |  |
| BOT CHORD                    | 17-18=0/1113, 16-1       | 7=0/1113, 15-16=0/2    | 105,            |          |      |          |       |       |        |       |               |  |
|                              | 14-15=0/2485, 13-1       | 4=0/2493, 12-13=0/1    | 954,            |          |      |          |       |       |        |       |               |  |
|                              | 11-12=0/786              |                        |                 |          |      |          |       |       |        |       |               |  |
| WEBS                         | 4-15=-267/61, 5-14=      | -154/141, 2-16=0/63    | 34,             |          |      |          |       |       |        |       |               |  |
|                              | 3-16=-645/0, 3-15=-      | 90/643, 2-17=-68/25    | 9,              |          |      |          |       |       |        |       |               |  |
|                              | 2-18=-1273/0, 9-11=      | =-1010/0, 9-12=0/817   | 7,              |          |      |          |       |       |        |       |               | in the second se |
|                              | 8-12=-263/54, 7-12=      | =-673/0, 7-13=0/411,   |                 |          |      |          |       |       |        |       | IN TH UA      | Rollin   |
|                              | 6-13=-314/82, 6-14=      | -310/301               |                 |          |      |          |       |       |        | 1     | A             | 14/16/2  |
| NOTES                        |                          |                        |                 |          |      |          |       |       |        |       | U. FESS       | Divi   |
| 1) Unbalance                 | ed floor live loads have | e been considered fo   | r               |          |      |          |       |       |        | 5     | 411           | MA: Y -  |
| this desigr                  | ٦.                       |                        |                 |          |      |          |       |       | 1      |       | R             | 1 S S S S  |
| <ol><li>This truss</li></ol> | has been designed fo     | ated                   |                 |          |      |          |       |       |        | SEA   | 1 1 2         |  |
| load of 25                   | 0.0lb live and 3.0lb de  | ad located at all mid  |                 |          |      |          |       |       | =      | :     | JLA           | <u>-</u> : :   |
| panels and                   | d at all panel points al |                        |                 |          |      |          |       |       | 2867   | 7 : 2 |               |  |

Bottom Chord, nonconcurrent with any other live loads. 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



July 2,2025

Page: 1



| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 2F4   | Floor      | 8   | 1   | Job Reference (optional)      | 174582476 |

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:31 Page: 1 ID:bX9xZnDLsAl0R9cdVwRTbQy9neU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





1-0-0 13-7-8

Scale = 1:36.8

|  |  |  |                              |                       |                      |  |                              |                              |                               |                          |                |                        | _ |
|--|--|--|------------------------------|-----------------------|----------------------|--|------------------------------|------------------------------|-------------------------------|--------------------------|----------------|------------------------|---|
| <b>Loading</b><br>TCLL<br>TCDL<br>BCLL             | (psf)<br>40.0<br>10.0<br>0.0   | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr                        | 1-4-0<br>1.00<br>1.00<br>YES | CSI<br>TC<br>BC<br>WB | 0.61<br>0.89<br>0.22 | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in<br>-0.15<br>-0.18<br>0.02 | (loc)<br>13-14<br>13-14<br>9 | l/defl<br>>999<br>>884<br>n/a | L/d<br>480<br>360<br>n/a | PLATES<br>MT20 | <b>GRIP</b><br>244/190 |   |
| BCDL   | 5.0  | Code   | IRC2021/TPI2014              | Matrix-S              |                      |  |                              |                              |                               |                          | Weight: 70 lb  | FT = 20%F, 12%E        |   |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS | 2x4 SP No.2(flat)<br>2x4 SP No.2(flat)<br>2x4 SP No.3(flat)<br>2x4 SP No.3(flat)         |  |                              |                       |                      |  |                              |                              |                               |                          |                |                        | - |
| BRACING  |  |  |                              |                       |                      |  |                              |                              |                               |                          |                |                        |   |
| TOP CHORD  | Structural wood she  | athing directly applie   | ed or                        |                       |                      |  |                              |                              |                               |                          |                |                        |   |
| BOT CHORD  | Rigid ceiling directly bracing.  | applied or 10-0-0 or   | 0                            |                       |                      |  |                              |                              |                               |                          |                |                        |   |
| REACTIONS  | (size) 9=0-3-8, 1<br>Max Grav 9=490 (LC  | 16=0-3-8<br>C 1), 16=486 (LC 1)  |                              |                       |                      |  |                              |                              |                               |                          |                |                        |   |
| FORCES   | (lb) - Maximum Com<br>Tension  | pression/Maximum   |                              |                       |                      |  |                              |                              |                               |                          |                |                        |   |
| TOP CHORD  | 1-16=-262/19, 8-9=-<br>2-3=-1113/0, 3-4=-1<br>5-6=-1546/0, 6-7=-1                        | 260/24, 1-2=-16/1,<br>546/0, 4-5=-1546/0,<br>057/0, 7-8=0/0                              |                              |                       |                      |  |                              |                              |                               |                          |                |                        |   |
| BOT CHORD  | 15-16=0/780, 14-15=<br>12-13=0/1546, 11-12<br>9-10=0/708                                 | =0/780, 13-14=0/140<br>2=0/1375, 10-11=0/7   | 09,<br>708,                  |                       |                      |  |                              |                              |                               |                          |                |                        |   |
| NEBS   | 4-13=-186/111, 5-12<br>3-14=-385/13, 3-13=<br>2-16=-891/0, 7-11=0<br>6-12=-177/375, 7-10 | 2=-196/102, 2-14=0/<br>201/351, 2-15=-74/<br>)/536, 6-11=-414/0,<br>)=-77/253, 7-9=-837/ | 524,<br>/253,<br>/0          |                       |                      |  |                              |                              |                               |                          |                | 11111                  |   |
| NOTES  |  |  |                              |                       |                      |  |                              |                              |                               |                          | "TH CA         | ROUT                   |   |
| 1) Unbalance                                       | ed floor live loads have   | been considered fo   | r                            |                       |                      |  |                              |                              |                               | 5                        | ON JESS        | ist Mar                |   |

- this design.
- This truss has been designed for a moving concentrated 2) load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means. 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



July 2,2025

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 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 St |   | Stonefield Rev 3-Elev 1-Floor |                          |           |  |  |
|-------------|-------|-----------------------|---|-------------------------------|--------------------------|-----------|--|--|
| 2412-1161-A | 2F5   | Floor                 | 4 | 1                             | Job Reference (optional) | 174582477 |  |  |

0-1-8 H 1-8-0 1-3-0 2-0-0 1-4-0 1.5x3 u 1.5x3 = 3x6 = 1.5x3 II 3x3 = 1.5x3 u 3x3 II 3x3 = 3x3 = 3x3 = 1.5x3 u 1 3 2 28 29 30 5 31 6 32 7 33 8 34 9 35 27 4 10 0-3-8 19 2 9 ÷. Ř 20 17 21 16 22 23 24 25 12 26 15 14 13 3x6 = 3x3 = 3x3 = 3x6 = 1.5x3 🛛 3x3 = 3x3 = 3x6 = 7-11-0 6-11-0

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:31

ID:3kjJn7E\_cUtt3JBq3dyi8ey9neT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



1-0-0 16-0-0

| Scale = | 1:36.8 |
|---------|--------|
|---------|--------|

| Loading<br>TCLL<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>40.0<br>10.0<br>0.0<br>5.0  | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code                        | 1-4-0<br>1.00<br>1.00<br>YES<br>IRC2021/TPI2014 | CSI<br>TC<br>BC<br>WB<br>Matrix-S | 0.62<br>0.49<br>0.32 | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in<br>-0.19<br>-0.25<br>0.03 | (loc)<br>13-14<br>13-14<br>11 | l/defl<br>>999<br>>752<br>n/a | L/d<br>480<br>360<br>n/a | PLATES<br>MT20<br>Weight: 82 lb | <b>GRIP</b><br>244/190<br>FT = 20%F, 12%E |
|---|--|--|---|-----------------------------------|----------------------|--|------------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------------|---|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING   | 2x4 SP No.2(flat)<br>2x4 SP SS(flat)<br>2x4 SP No.3(flat)<br>2x4 SP No.3(flat)   |  |   |                                   |                      |  |                              |                               |                               |                          |                                 |   |
| TOP CHORD   | Structural wood she<br>6-0-0 oc purlins, ex<br>Bigid ceiling directly  | eathing directly applie<br>cept end verticals.   | ed or   |                                   |                      |  |                              |                               |                               |                          |                                 |   |
| BOT CHORD   | bracing.   | applied of 10-0-0 of   |   |                                   |                      |  |                              |                               |                               |                          |                                 |   |
| REACTIONS   | (size) 11=0-5-8<br>Max Grav 11=578 (I  | , 18=0-3-8<br>LC 1), 18=573 (LC 1)   | )   |                                   |                      |  |                              |                               |                               |                          |                                 |   |
| FORCES  | (lb) - Maximum Com   | npression/Maximum  |   |                                   |                      |  |                              |                               |                               |                          |                                 |   |
| TOP CHORD   | 1-18=-262/19, 10-1 <sup>-1</sup><br>2-3=-1359/0, 3-4=-2<br>5-6=-2111/0, 6-7=-1<br>8-9=-1264/0, 9-10=(  | 1=-261/7, 1-2=-16/1,<br>2111/0, 4-5=-2111/0,<br>939/0, 7-8=-1264/0,<br>0/0                       |   |                                   |                      |  |                              |                               |                               |                          |                                 |   |
| BOT CHORD   | 17-18=0/939, 16-17<br>14-15=0/2111, 13-1<br>11-12=0/739  | =0/939, 15-16=0/178<br>4=0/2131, 12-13=0/1   | 31,<br>1697,                                    |                                   |                      |  |                              |                               |                               |                          |                                 |   |
| WEBS  | 4-15=-230/67, 5-14=<br>3-16=-549/0, 3-15=-<br>2-18=-1074/0, 9-11=<br>8-12=-261/57, 7-12=<br>6-13=-256/101_6-14   | 151/144, 2-16=0/5<br>107/551, 2-17=-70/2<br>909/0, 9-12=0/670,<br>552/0, 7-13=0/386,<br>4320/255 | 72,<br>57,                                      |                                   |                      |  |                              |                               |                               |                          | "TH CA                          | RO  |
| NOTES   | ed floor live loads have   | e been considered fo   | r   |                                   |                      |  |                              |                               |                               | i e                      | 0 500                           | All And                                   |
| <ul> <li>chistatile</li> <li>this design</li> <li>2) This truss</li> <li>load of 250</li> <li>panels and</li> </ul> | this design. 2) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and 28677 |  |   |                                   |                      |  |                              |                               |                               |                          |                                 |   |

Bottom Chord, nonconcurrent with any other live loads. 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



July 2,2025

Page: 1

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 BCEL Building Component Schut Information, purplication component component durate propagate component component to the prevent collapse with possible for the Studyer Building Component Advance and Adva and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |  |  |  |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|--|--|--|
| 2412-1161-A | 2F3   | Floor      | 20  | 1   | Job Reference (optional)      | 174582478 |  |  |  |



1-0-0 15-10-0

| Scale = | 1:36.8 |
|---------|--------|
|---------|--------|

| Scale = 1.50.0 | 3  |  |                  |              |                   |            |            |       |       |        |     |               |                 |   |
|----------------|--|--|------------------|--------------|-------------------|------------|------------|-------|-------|--------|-----|---------------|-----------------|---|
| Loading        | (psf)  | Spacing  | 1-4-0            |              | CSI               |            | DEFL       | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |   |
| TCLL           | 40.0   | Plate Grip DOL   | 1.00             |              | тс                | 0.74       | Vert(LL)   | -0.18 | 13-14 | >999   | 480 | MT20          | 244/190         |   |
| TCDL           | 10.0   | Lumber DOL   | 1.00             |              | BC                | 0.53       | Vert(CT)   | -0.24 | 13-14 | >767   | 360 |               |                 |   |
| BCLL           | 0.0  | Rep Stress Incr  | NO               |              | WB                | 0.33       | Horz(CT)   | 0.03  | 11    | n/a    | n/a |               |                 |   |
| BCDL           | 5.0  | Code   | IRC2021          | /TPI2014     | Matrix-S          |            | ( )        |       |       |        |     | Weight: 81 lb | FT = 20%F, 12%I | Ξ |
| LUMBER         |  |  | 5)               | CAUTION. D   | o not erect truss | backward   | s.         |       |       |        |     |               |                 |   |
| TOP CHORD      | 2x4 SP No.2(flat)  |  | ĹŐ               | AD CASE(S)   | Standard          |            |            |       |       |        |     |               |                 |   |
| BOT CHORD      | 2x4 SP SS(flat)  |  | 1)               | Dead + Flor  | or Live (balanced | 1). Lumber | Increase=1 | 00    |       |        |     |               |                 |   |
| WEBS           | 2x4 SP No.3(flat)  |  | .,               | Plate Increa | ase=1.00          | .,         |            | ,     |       |        |     |               |                 |   |
| OTHERS         | 2x4 SP No.3(flat)  |  |                  | Uniform Loa  | ads (lb/ft)       |            |            |       |       |        |     |               |                 |   |
| BRACING        |  |  |                  | Vert: 11-    | 18=-7, 1-29=-76,  | 10-29=-6   | 7          |       |       |        |     |               |                 |   |
| TOP CHORD      | Structural wood sh   | eathing directly applie  | ed or            |              |                   |            |            |       |       |        |     |               |                 |   |
|                | 6-0-0 oc purlins, e  | xcept end verticals.   |                  |              |                   |            |            |       |       |        |     |               |                 |   |
| BOT CHORD      | <ul> <li>Rigid ceiling directl<br/>bracing.</li> </ul>   | y applied or 10-0-0 o  | C                |              |                   |            |            |       |       |        |     |               |                 |   |
| REACTIONS      | (size) 11=0-3-8<br>Max Grav 11=575   | 3, 18=0-3-8<br>(LC 1), 18=596 (LC 1  | )                |              |                   |            |            |       |       |        |     |               |                 |   |
| FORCES         | (lb) - Maximum Col<br>Tension  | mpression/Maximum  |                  |              |                   |            |            |       |       |        |     |               |                 |   |
| TOP CHORD      | <ul> <li>1-18=-268/13, 10-1</li> <li>2-3=-1386/0, 3-4=-</li> <li>5-6=-2105/0, 6-7=-</li> <li>8-9=-1199/0, 9-10=</li> </ul> | 1=-260/12, 1-2=-16/1<br>2105/0, 4-5=-2105/0,<br>1896/0, 7-8=-1199/0,<br>0/0                            | Ι,               |              |                   |            |            |       |       |        |     |               |                 |   |
| BOT CHORD      | 0 17-18=0/969, 16-1<br>14-15=0/2105, 13-<br>11-12=0/661  | 7=0/969, 15-16=0/179<br>14=0/2103, 12-13=0/1   | 99,<br>1644,     |              |                   |            |            |       |       |        |     |               |                 |   |
| WEBS           | 4-15=-221/76, 5-14<br>3-16=-538/0, 3-15=<br>2-18=-1108/0, 9-11<br>8-12=-261/57, 7-12<br>6-13=-269/87, 6-14                 | =-158/137, 2-16=0/5<br>-128/522, 2-17=-71/2<br>=-848/0, 9-12=0/688<br>=-568/0, 7-13=0/397<br>=-300/273 | 72,<br>255,<br>, |              |                   |            |            |       |       |        |     | TH CA         | RO              |   |
| NOTES          |  |  |                  |              |                   |            |            |       |       |        | 5.  | O' FESS       | id: Nº2         |   |
| 1) Unbaland    | ed floor live loads hav  | e heen considered fo   | or               |              |                   |            |            |       |       |        | 24  |               | 71.72           |   |
| this desig     | in   |  |                  |              |                   |            |            |       |       |        | 2 4 |               |                 |   |
| 2) Load cas    | e(s) 1 has/have been   | modified. Buildina   |                  |              |                   |            |            |       |       |        |     | OFA           |                 |   |
| designer       | must review loads to v   | verify that they are co  | rrect            |              |                   |            |            |       |       | =      | - 1 | SEA           | L : :           |   |
| for the in     | tended use of this trus  | S.   |                  |              |                   |            |            |       |       | =      | :   | 2867          | 7 : 2           |   |
| 3) This trus   | s has been designed f  | or a moving concentra  | ated             |              |                   |            |            |       |       |        |     |               | 1 J I           |   |
| load of 2      | 50.0lb live and 3.0lb de   | ead located at all mid   |                  |              |                   |            |            |       |       |        | -   | N             | 1 5             |   |
| panels ar      | nd at all panel points a   | long the Top Chord a   | ind              |              |                   |            |            |       |       |        | 20  | SNO.          | ERILS           |   |
| Bottom C       | nora, nonconcurrent v  | vith any other live loa  | as.              |              |                   |            |            |       |       |        | 11  | UN GIN        | S. S.           |   |
| 4) Kecomm      | enu ZXb strongbacks,   | on edge, spaced at   |                  |              |                   |            |            |       |       |        | 1   | NI C          | AL IN IN        |   |
| (0 131" X      | 3") nails Strongback   | is to be attached to w   | alls             |              |                   |            |            |       |       |        |     | 1112.0        |                 |   |
| (0.101 /       | A 3) Hails. Strongbacks to be attached to waits  |  |                  |              |                   |            |            |       |       |        |     |               |                 |   |

(0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



July 2,2025

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 BCEL Building Component Science Use Component Categories (http://www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| Job  |   | Truss                   | uss Truss Type            |                        |            |                             | Qt                         | y                          | Ply Stonefield Rev 3-Elev |   |                      |                                       |        |             | lev 1-Floor |        |           |            |           |
|--|---|-------------------------|---------------------------|------------------------|------------|-----------------------------|----------------------------|----------------------------|---------------------------|---|----------------------|---------------------------------------|--------|-------------|-------------|--------|-----------|------------|-----------|
| 2412-1161-A  | A   | 2F14A                   |                           |                        | Floor      |                             |                            |                            | 16                        |   | 1                    | I/4582479<br>Job Reference (optional) |        |             |             |        |           |            |           |
| Structural, LLC, T                                     | hurmont, MD - :   | 21788,                  |                           |                        |            |                             | Run:<br>ID:xE              | : 25.20 S M<br>ERO2g4qgU   | ay 13 202<br>JEj?JhKoP    | y 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:33 Page: 1<br>j;?JhKoPDf6uy9neg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f |                      |                                       |        |             |             |        |           | Page: 1    |           |
|  | 1   | 1-7-12                  | 1-3-0                     | )                      |            |                             |                            |                            |                           |   | I                    | 2-0                                   | -0     | 1           |             |        | 1-7-8     | I          |           |
|  | F   |                         |                           | -                      |            |                             |                            |                            |                           | 3x3 =   | F                    |                                       | 0      | 1           |             |        |           |            |           |
|  | 3x3   | II                      | 3x4 =                     | 3x4 =                  | 1.5x3 🛛    | 3x3 =                       |                            | 3x6 =                      | 3x6 FP                    |   | 1.5>                 | 3 II                                  |        | 3x3 =       |             | 4      | 4x8 =     | 3x3 II     |           |
|  | 1   | 34                      | 2 35                      | 3 36                   | 4 37       | 5                           | 38                         | 6                          | 7                         | 8   | 39 9                 | 40                                    | )      | 10<br>🐨     | 41          |        | 11 42     | 12         |           |
|  | 1-2-0   |                         |                           |                        |            |                             |                            |                            |                           |   |                      |                                       |        |             |             |        |           | 13         |           |
|  |   | 25                      | 23                        | 26                     | 22         | 27                          | 21 20                      | <br>19 28                  | 18                        | 29  | 17                   | 30                                    | ) .    | 16 31       | 15          | 32     | 14 33     | <u>}₹₩</u> |           |
|  | 3x6   | =                       | 2×4 -                     | 20                     | 3x6 =      | 2.                          | 2                          | 1.5x3 u                    |                           | 20  | 3x3                  | =                                     | 1      | 572         | 3x4 :       | = 1    | 5v2       | 4x6 =      |           |
|  |   |                         | 3x4 =                     |                        |            |                             | 3X3 =                      | 40 FD                      |                           |   |                      |                                       | I      | .5x5        |             | I      | .5x5      |            |           |
|  |   |                         |                           |                        |            | I                           | WI 20H5 3X                 | X12 FP                     | 3x3 =                     |   |                      |                                       |        |             |             |        |           |            |           |
|  |   |                         |                           |                        |            |                             |                            |                            |                           |   |                      | 1                                     | 4-4-12 | 2           |             |        |           |            |           |
|  |   |                         |                           |                        |            |                             |                            |                            |                           |   | 1                    | 3-4-12                                |        |             |             |        |           |            |           |
|  | $\vdash$  |                         |                           |                        |            | 12-4-12                     |                            |                            |                           |   |                      |                                       |        |             |             | 19-0-  | -4        |            |           |
|  | 1   |                         |                           |                        |            | 12-4-12                     |                            |                            |                           |   |                      | 1-0-0                                 |        | 1           |             | 4-7-8  | 5         | 1          |           |
|  |   |                         |                           |                        |            |                             |                            |                            |                           |   |                      |                                       | 1-0-0  |             |             |        |           |            |           |
|  | 1-0-0<br>19-0-4   |                         |                           |                        |            |                             |                            |                            |                           |   |                      |                                       |        |             |             |        |           |            |           |
| Scale = 1:36.7<br>Plate Offsets (X                     | (, Y): [2:0-1-8   | 3.Edge],                | 13:Edge.0                 | -1-8]                  |            |                             |                            |                            |                           |   |                      |                                       |        |             |             |        |           | 1          |           |
| Loading  |   | (nsf)                   | Spacing                   |                        | 1-4-0      |                             | CSI                        |                            |                           | DEFL  |                      | in                                    | (loc)  | l/defl      | l/d         | PLAT   | TES       | GRIP       |           |
| TCLL   |   | 40.0                    | Plate Grip                | DOL                    | 1.00       |                             | TC                         |                            | 0.92                      | Vert(L  | L) -                 | 0.39 1                                | 7-18   | >579        | 480         | MT20   | DHS       | 187/14     | 3         |
| BCLL   |   | 0.0                     | Rep Stres                 | ss Incr                | NO         |                             | WB                         | _                          | 0.85                      | Horz(   | CT)                  | 0.54 1                                | 13     | >419<br>n/a | n/a         | 101120 |           | 244/19     |           |
| BCDL   |   | 5.0                     | Code                      |                        | IRC2021/   | TPI2014                     | Matrix                     | k-S                        | (                         |   |                      |                                       |        |             |             | Weig   | ht: 99 lb | FT = 20    | )%F, 12%E |
| LUMBER<br>TOP CHORD                                    | 2x4 SP No.2   | (flat) *Ex              | cept* 7-12                | :2x4 SP S              | 5)<br>S    | load of 250                 | has been<br>0.0lb live a   | and 3.0lb d                | for a movilead loca       | ving cor<br>ited at a   | all mid              | d                                     |        |             |             |        |           |            |           |
| BOT CHORD  | (flat)<br>2x4 SP SS(f   | lat)                    |                           |                        |            | Bottom Ch                   | d at all par<br>lord, nonc | nel points a<br>concurrent | along the<br>with any     | e Top C<br>other li   | hord and<br>ve loads |                                       |        |             |             |        |           |            |           |
| WEBS<br>BRACING  | 2x4 SP No.3   | (flat)                  |                           |                        | 6)         | Recomment<br>10-00-00 c     | nd 2x6 str                 | rongbacks,<br>stened to e  | , on edge<br>ach truss    | e, space<br>s with 3  | ed at<br>-10d        |                                       |        |             |             |        |           |            |           |
| TOP CHORD  | Structural we   | ood shea<br>urlins, ex  | thing direc               | tly applied            | or         | (0.131" X 3<br>at their out | 3") nails. 3<br>ter ends o | Strongbac<br>or restraine  | ks to be<br>d by othe     | attache<br>er mear  | d to wall<br>ns.     | S                                     |        |             |             |        |           |            |           |
| BOT CHORD  | Rigid ceiling   | directly a              | applied or                | 10-0-0 oc              | LO/<br>1)  | AD CASE(S<br>Dead + F       | <b>S)</b> Stand            | lard<br>(balanced)         | : Lumbe                   | r Increa  | se=1.00              |                                       |        |             |             |        |           |            |           |
| REACTIONS (  | (size) 13   | B= Mecha                | anical, 24=               | 0-3-8                  | ,          | Plate Incr<br>Uniform L     | rease=1.0<br>_oads (lb/f   | )<br>ft)                   |                           |   |                      |                                       |        |             |             |        |           |            |           |
| FORCES   | (lb) - Maximi   | um Comp                 | pression/M                | aximum                 |            | Vert: 1<br>Concentr         | 3-24=-7, 1                 | 1-12=-67<br>ts (lb)        |                           |   |                      |                                       |        |             |             |        |           |            |           |
| TOP CHORD  | Tension<br>1-24=-264/0  | , 12-13=-               | 267/22, 1-                | 2=0/0,                 |            | Vert: 1                     | 1=-800                     | 15 (15)                    |                           |   |                      |                                       |        |             |             |        |           |            |           |
|  | 2-3=-1241/0<br>5-6=-3388/0  | , 3-4=-25<br>, 6-8=-38  | 70/0, 4-5=<br>13/0, 8-9=  | -2570/0,<br>-3521/0,   |            |                             |                            |                            |                           |   |                      |                                       |        |             |             |        |           |            |           |
| BOT CHORD  | 9-10=-3521/<br>23-24=0/124  | 0, 10-11=<br>1, 22-23   | =-2850/0, 1<br>=0/1959, 2 | 11-12=0/0<br>1-22=0/30 | 78,        |                             |                            |                            |                           |   |                      |                                       |        |             |             |        |           |            |           |
|  | 19-21=0/368<br>16-17=0/352  | 89, 18-19<br>21, 15-16  | =0/3689, 1<br>=0/3521, 1  | 7-18=0/38<br>4-15=0/23 | 21,<br>26, |                             |                            |                            |                           |   |                      |                                       |        |             |             |        |           |            |           |
| WEBS   | 13-14=0/232<br>9-17=-138/1  | 26<br>85, 10-16         | 6=-77/321,                | 11-15=0/6              | 98,        |                             |                            |                            |                           |   |                      |                                       |        |             |             |        |           | 1111       |           |
|  | 10-15=-1009/60, 11-14=-40/242,<br>11-13=-2683/0. 5-21=0/451. 6-19=-102/233. |                         |                           |                        |            |                             |                            |                            |                           |   |                      |                                       |        |             | Nº.         | RT     | HUA       | HPL        | 1 in      |
|  | 6-18=-50/448, 8-18=-230/152,<br>8-17=-626/228, 5-22=-649/0, 6-21=-432/39,   |                         |                           |                        |            |                             |                            |                            |                           |   |                      |                                       |        |             | j e         | 1      | 8700      |            | ATT       |
|  | 4-22=-259/6<br>2-23=0/583   | 9, 3-22=0<br>2-24=-14   | )/781, 3-23<br>127/0      | 3=-916/0,              | -,         |                             |                            |                            |                           |   |                      |                                       |        | Ē           |             | , A    | h         | VIS        | N E .     |
| NOTES  | 2-20-0/000,   | 2-241-                  | +21/0                     |                        |            |                             |                            |                            |                           |   |                      |                                       |        |             |             |        | SEA       |            | 1 1       |
| <ol> <li>Unbalanced<br/>this design.</li> </ol>        | d floor live loa  | ids have                | been cons                 | idered for             |            |                             |                            |                            |                           |   |                      |                                       |        | 1           |             |        | 2007      | /          | 1 1       |
| <ol> <li>All plates a</li> <li>Refer to gir</li> </ol> | re MT20 plate<br>der(s) for trus  | es unless<br>s to truss | otherwise<br>connectio    | indicated.             |            |                             |                            |                            |                           |   |                      |                                       |        |             | 110         | 2.4    | Nou       | ER.        | 21        |
| <ol> <li>Load case(<br/>designer m</li> </ol>          | s) 1 has/have<br>ust review loa   | been mo<br>ads to ver   | odified. Bu               | ilding<br>are corre    | ect        |                             |                            |                            |                           |   |                      |                                       |        |             | 14          | HA     | GIN       | NIN        | S. I.I.   |
| for the inter  | nded use of th  | nis truss.              | ,                         |                        |            |                             |                            |                            |                           |   |                      |                                       |        |             |             | 111    | L.G.      | AL         |           |
|  |   |                         |                           |                        |            |                             |                            |                            |                           |   |                      |                                       |        |             |             |        | Ju        | ly 2,20    | 25        |

USE. , not verall t bracing uss Plate Institute (www.tpinst.org) Hondowski and the state of the state of

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 outlapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



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)

A MiTek 818 Soundside Road

| Job   |                    | Truss Truss Type                           |  |   |  |   | Ply Stonefield Rev 3-Elev 1-Floor            |  |   |  |   |  |  |  |
|---|--------------------|--|--|---|--|---|--|--|---|--|---|--|--|--|
| 2412-1161-  | 4                  | 2F19                                       |  | Floor   |  | 8   | 1  | Job Refere                                   | ence (optiona                             | al)  |   | 174582481  |  |  |
| Structural, LLC, 1  | Thurmont, MD -     | 21788,                                     |  |   | Run: 25.20 S May   | y 13 2025 Prir                              | it: 25.2.0 S Ma                              | y 13 2025 MiT                                | ek Industries, I                          | Inc. Mon Jun 3                                     | 0 14:56:34  | 4 Page: 1  |  |  |
|   | <mark>1-2-0</mark> | 1-3-0<br>3x3 II (1)<br>1 37<br>20<br>3x6 = | 1.5x3 	II 	I.5x3 	II 	I.5x3 	II 	I.5x3 	II 	I.5x3 	II 	I.5x3 	II 	I.5x3 	II 	II 	II 	II 	II 	II 	II 	II 	II 	I | 3x3 = $3x3 =$ $40 5 41 6 42$ $40 5 41 6 42$ $23 22$ $20HS 3x8 FP$ $4x6 =$ | MT20HS 3x8 FP<br>3x4 = 3x4<br>7 843 9<br>30 21 31<br>3x4 = | 2.<br>1.5x3 II<br>=<br>44 10<br>20<br>3x4 = | 0-0<br>3x3 =<br>45 11<br>32 19 33<br>1.5x3 Ⅱ | 3x<br>46 12<br>3 18 34 17<br>3x3 =           | 6=<br>2 47<br>7 35 16<br>ix3 II<br>3x4 =  | 3x4 = 1<br>3x4 = 1<br>36                           | D-1-8<br>1.5x3 =<br>1.5x3 =<br>1.5x3 =<br>12<br>27<br>∞<br>27<br>∞<br>15<br>3x6 = | Τ  |  |  |
|   |                    | <u> </u>                                   | <u>6-11-12</u><br>6-11-12  |   | 12-4-12<br>5-5-0   | 13-4-1<br> <br>1-0-(                        | 14-4-12<br>2<br>+                            |  | <u>21-5-8</u><br>7-0-12                   |  |   |  |  |  |
| Scale = 1:45.6  |                    |  |  |   | 21-5-8   |   |  |  |   |  |   |  |  |  |
| Plate Offsets ()  | X, Y): [20:0-1     | -8,Edge]                                   |  |   |  |   |  | -  |   |  |   |  |  |  |
| <b>Loading</b><br>TCLL<br>TCDL<br>BCLL<br>BCDL  |                    | (psf)<br>40.0<br>10.0<br>0.0<br>5.0        | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code                                      | 2-0-0<br>1.00<br>1.00<br>YES<br>IRC2021/TPI2014                           | CSI<br>TC<br>BC<br>WB<br>Matrix-S                          | 0.88 Ve<br>0.87 Ve<br>0.40 Ho               | FL -0<br>rt(LL) -0<br>rt(CT) -0<br>rz(CT) 0  | in (loc)<br>.18 18-19<br>.25 18-19<br>.03 15 | l/defl L/<br>>954 48<br>>702 36<br>n/a n/ | d <b>PLATES</b><br>0 MT20HS<br>0 MT20<br>a Weight: | <b>5</b><br>3<br>109 lb   | <b>GRIP</b><br>187/143<br>244/190<br>FT = 20%F, 12%E |  |  |
| BCDL       5.0       Code       IRC2021/TPI2014       Matrix-S       Weight: 109 lb       FT = 20%F.         LUMBER<br>TOP CHORD       2x4 SP No.2(flat)       *Except* 23-15:2x4 SP SS<br>(flat)       3)       Provide mechanical connection (by others) of truss to<br>bearing plate capable of withstanding 8 lb uplift at joint       26.         WEBS       2x4 SP No.3(flat)       0       This truss has been designed for a moving concentrated<br>load of 250.0lb live and 3.0lb dead located at all mid<br>panels and at all panel points along the Top Chord and<br>Bottom Chord, nonconcurrent with any other live loads.       5)       Recommend 2x6 strongbacks, on edge, spaced at<br>10-00-00 oc cand fastened to each truss with 3-10d<br>(0.131" X 3") nails. Strongbacks to be attached to walls<br>at their outer ends or restrained by other means.         REACTIONS       (size)       15=0-3-8, (2=0-5-8<br>Max Ilplift       15=0-3-8, (2=0-5-8<br>Max Ilplift       6)       CAUTION, Do not erect truss backwards.         LOAD CASE(S)       Standard |                    |  |  |   |  |   |  |  |   |  |   |  |  |  |
| FORCES  | 2<br>(Ib) - Maxim  | 6=332 (L<br>um Com                         | C 3)<br>pression/Maximum   |   |  |   |  |  |   |  |   |  |  |  |
| Tension<br>TOP CHORD 1-26=-261/14, 14-15=-266/22, 1-2=0/0,<br>2-3=-458/194, 3-4=-458/194, 4-5=-458/194,<br>5-6=0/842, 6-7=0/843, 7-9=-1093/0,<br>9-10=-2272/0, 10-11=-2272/0, 11-12=-2279/0,<br>12-13=-1605/0, 13-14=-16/1<br>BOT CHORD 25-26=-42/347, 24-25=-194/458,<br>22-24=-472/182, 21-22=-136/459,<br>20-21=0/1750, 19-20=0/2272, 18-19=0/2272,<br>17-18=0/2120, 16-17=0/2120, 15-16=0/1073  |                    |  |  |   |  |   |  |  |   | North Start  |   |  |  |  |
| WEBS       6-22=-285/19, 10-20=-298/20,<br>11-19=-233/111, 2-26=-435/53, 5-22=-689/0,<br>2-25=-194/223, 5-24=0/576, 3-25=-159/103,<br>4-24=-279/3, 13-15=-1257/10, 13-16=0/692,<br>12-16=-657/32, 12-17=-125/230,<br>12-18=-88/327, 11-18=-216/302,<br>7-22=-1364/0, 7-21=0/843, 9-21=-883/0,<br>9-20=0/792       SEAL         NOTES       1) Unbalanced floor live loads have been considered for<br>this design.       Seal         1) Unbalanced floor live loads have been considered for<br>this design.       July 2,2025   |                    |  |  |   |  |   |  |  | ER Struin                                 |  |   |  |  |  |



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 outlapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |  |  |  |  |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|--|--|--|--|
| 2412-1161-A | 2F7   | Floor      | 4   | 1   | Job Reference (optional)      | 174582482 |  |  |  |  |



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

| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |  |  |  |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|--|--|--|
| 2412-1161-A | 2F6   | Floor      | 8   | 1   | Job Reference (optional)      | 174582483 |  |  |  |

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:31

ID:XwHh\_TEcNo?kgTm0cLTxgry9neS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Structural, LLC, Thurmont, MD - 21788.





1-0-0 16-0-0

| Scale = | 1:36.8 |
|---------|--------|
|---------|--------|

| Loading                       | (psf)<br>40.0   | Spacing<br>Plate Grip DOI                     | 1-7-3<br>1 00   | CSI<br>TC | 0.64 | DEFL<br>Vert(LL) | in<br>-0 20 | (loc)<br>13-14 | l/defl<br>>957 | L/d<br>480 | PLATES        | <b>GRIP</b><br>244/190   |
|-------------------------------|---|---|-----------------|-----------|------|------------------|-------------|----------------|----------------|------------|---------------|--|
| TCDL                          | 10.0  | Lumber DOL                                    | 1.00            | BC        | 0.50 | Vert(CT)         | -0.27       | 13-14          | >696           | 360        |               | 210100   |
| BCLL                          | 0.0   | Rep Stress Incr                               | YES             | WB        | 0.38 | Horz(CT)         | 0.04        | 11             | n/a            | n/a        |               |  |
| BCDL                          | 5.0   | Code  | IRC2021/TPI2014 | Matrix-S  |      | ( )              |             |                |                |            | Weight: 82 lb | FT = 20%F, 12%E  |
| LUMBER                        |   |   |                 |           |      |                  |             |                |                |            |               |  |
| TOP CHORD                     | 2x4 SP No.2(flat)   |   |                 |           |      |                  |             |                |                |            |               |  |
| BOT CHORD                     | 2x4 SP SS(flat)   |   |                 |           |      |                  |             |                |                |            |               |  |
| WEBS                          | 2x4 SP No.3(flat)   |   |                 |           |      |                  |             |                |                |            |               |  |
| OTHERS                        | 2x4 SP No.3(flat)   |   |                 |           |      |                  |             |                |                |            |               |  |
| BRACING                       |   |   |                 |           |      |                  |             |                |                |            |               |  |
| TOP CHORD                     | Structural wood she<br>6-0-0 oc purlins, ex               | athing directly applie<br>cept end verticals. | ed or           |           |      |                  |             |                |                |            |               |  |
| BOT CHORD                     | Rigid ceiling directly<br>bracing.                        | applied or 10-0-0 or                          | 2               |           |      |                  |             |                |                |            |               |  |
| REACTIONS                     | (size) 11=0-5-8   | , 18=0-3-8                                    |                 |           |      |                  |             |                |                |            |               |  |
|                               | Max Grav 11=693 (I  | LC 1), 18=688 (LC 1                           | )               |           |      |                  |             |                |                |            |               |  |
| FORCES                        | (lb) - Maximum Com  | pression/Maximum                              |                 |           |      |                  |             |                |                |            |               |  |
|                               | Tension   | 000/0 4 0 40/4                                |                 |           |      |                  |             |                |                |            |               |  |
| TOP CHORD                     | 1-18=-263/18, 10-11                                       | I=-262/6, 1-2=-16/1,                          |                 |           |      |                  |             |                |                |            |               |  |
|                               | 2-3=-1030/0, 3-4=-2                                       | 332/0, 4-5=-2532/0,                           |                 |           |      |                  |             |                |                |            |               |  |
|                               | 8-9-1516/0 9-10-0   | .525/0, 7-0=-1510/0,<br>1/0                   |                 |           |      |                  |             |                |                |            |               |  |
| BOT CHORD                     | 17-18=0/1126. 16-1  | 7=0/1126. 15-16=0/2                           | 2136.           |           |      |                  |             |                |                |            |               |  |
| Del ellerib                   | 14-15=0/2532, 13-1  | 4=0/2556, 12-13=0/2                           | 2035.           |           |      |                  |             |                |                |            |               |  |
|                               | 11-12=0/887   |   | ,               |           |      |                  |             |                |                |            |               |  |
| WEBS                          | 4-15=-273/59, 5-14=                                       | =-151/144, 2-16=0/64                          | 44,             |           |      |                  |             |                |                |            |               |  |
|                               | 3-16=-658/0, 3-15=-                                       | 83/661, 2-17=-67/25                           | i9,             |           |      |                  |             |                |                |            |               | 112  |
|                               | 2-18=-1288/0, 9-12=                                       | =0/803, 8-12=-263/54                          | 4,              |           |      |                  |             |                |                |            |               | in the second se |
|                               | 7-12=-662/0, 7-13=0                                       | 0/405, 6-13=-301/89                           |                 |           |      |                  |             |                |                |            | IN TH UA      | Roite  |
|                               | 6-14=-320/291, 9-11                                       | I=-1090/0                                     |                 |           |      |                  |             |                |                | 1          | Aurice        | States -   |
| NOTES                         |   |   |                 |           |      |                  |             |                |                | 22         | C. FEDS       | Phil St  |
| <ol> <li>Unbalance</li> </ol> | ed floor live loads have                                  | e been considered fo                          | r               |           |      |                  |             |                |                | 2          |               | 191. 2   |
| this desigr                   | n.  |   |                 |           |      |                  |             |                |                | 1          |               |  |
| 2) This truss                 | has been designed to                                      | r a moving concentra                          | ated            |           |      |                  |             |                |                |            | SEA           | NL E   |
| load of 250                   | u.up live and 3.0b de                                     | ad located at all mid                         | nd              |           |      |                  |             |                | =              |            | 2000          | 77 : 2   |
| panels and                    | els and at all panel points along the Top Chord and 28677 |   |                 |           |      |                  |             |                |                |            |               |  |

Bottom Chord, nonconcurrent with any other live loads. 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



July 2,2025

Page: 1

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 BCEL Building Component Schut Information, purplication component component durate propagate component component to the prevent collapse with possible for the Studyer Building Component Advance and Adva and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| Job         | Truss | Truss Type | Qty                           | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-------------------------------|-----|-------------------------------|-----------|
| 2412-1161-A | 2F8   | Floor      | 12 1 Job Reference (optional) |     | Job Reference (optional)      | 174582484 |

TCLL

TCDL

BCLL

BCDL

WEBS

WEBS

NOTES 1)

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)



| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 2F9   | Floor      | 8   | 1   | Job Reference (optional)      | 174582485 |

TCLL

TCDI

BCLL

BCDL

WEBS

WEBS

1)

2)



July 2,2025

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 BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 2F11  | Floor      | 4   | 1   | Job Reference (optional)      | 174582486 |



| 0 |          |  |
|---|----------|--|
|   | - 1·37 / |  |

| Scale = 1:37.4  | 1  |   |  |   |  |   |       |       |        |         |               |                 |
|---|--|---|--|---|--|---|-------|-------|--------|---------|---------------|-----------------|
| oading  | (psf)  | Spacing   | 2-0-0  | CSI   |  | DEFL  | in    | (loc) | l/defl | L/d     | PLATES        | GRIP            |
| FCLL  | 40.0   | Plate Grip DOL  | 1.00   | TC  | 0.62   | Vert(LL)  | -0.15 | 15-16 | >999   | 480     | MT20          | 244/190         |
| FCDL  | 10.0   | Lumber DOL  | 1.00   | BC  | 0.94   | Vert(CT)  | -0.20 | 15-16 | >786   | 360     |               |                 |
| BCLL  | 0.0  | Rep Stress Incr   | YES  | WB  | 0.38   | Horz(CT)  | 0.02  | 12    | n/a    | n/a     |               |                 |
| BCDL  | 5.0  | Code  | IRC2021/TPI2014  | Matrix-S  |  |   |       |       |        |         | Weight: 81 lb | FT = 20%F, 12%E |
| LUMBER<br>FOP CHORE<br>SOT CHORE<br>WEBS<br>OTHERS<br>BRACING<br>FOP CHORE<br>BOT CHORE | <ul> <li>2x4 SP No.2(flat)</li> <li>2x4 SP No.2(flat)</li> <li>2x4 SP No.3(flat)</li> <li>2x4 SP No.3(flat)</li> <li>2x4 SP No.3(flat)</li> <li>Structural wood sheat</li> <li>6-0-0 oc purlins, exc</li> <li>Rigid ceiling directly bracing.</li> <li>(izza)</li> <li>11- Mach</li> </ul> | athing directly applied<br>sept end verticals.<br>applied or 2-2-0 oc                             | 5) Recomme<br>10-00-00 (<br>(0.131" X :<br>at their ou<br>6) CAUTION<br>LOAD CASE( | nd 2x6 strongbacl<br>oc and fastened to<br>3") nails. Strongb<br>ter ends or restrai<br>, Do not erect trus<br><b>5)</b> Standard | ks, on edge<br>each truss<br>acks to be a<br>ned by othe<br>s backwarc | e, spaced at<br>with 3-10d<br>attached to v<br>er means.<br>ds. | valls |       |        |         |               |                 |
| (EACTIONS   | Max Uplift 11= Mech<br>18=0-3-8<br>Max Uplift 11=-444 (I<br>Max Grav 11=156 (L<br>18=628 (L  | anicai, 12=0-3-8,<br>LC 3)<br>.C 21), 12=1400 (LC<br>.C 3)  | 1),  |   |  |   |       |       |        |         |               |                 |
| ORCES   | (lb) - Maximum Com<br>Tension  | pression/Maximum  |  |   |  |   |       |       |        |         |               |                 |
| OP CHORE  | 1-18=-267/14, 10-11<br>2-3=-1382/0, 3-4=-16<br>5-6=-1664/0, 6-7=-56<br>8-9=0/1065, 9-10=0/   | =-258/31, 1-2=-16/1,<br>664/0, 4-5=-1664/0,<br>67/0, 7-8=0/1065,<br>0                             |  |   |  |   |       |       |        |         |               |                 |
| BOT CHORE   | 17-18=0/985, 16-17=<br>14-15=0/1664, 13-14<br>12-13=-409/254, 11-  | -<br>=0/985, 15-16=0/168-<br>↓=0/1181,<br>12=-373/34  | 4,   |   |  |   |       |       |        |         | mmm           | 11111           |
| VEBS  | 4-15=-134/130, 5-14<br>2-16=0/564, 3-16=-3<br>2-17=-72/254, 2-18=<br>7-13=0/789, 6-13=-8<br>9-12=-901/0, 9-11=-5   | =-302/9, 8-12=-277/3<br>93/13, 3-15=-257/20<br>-1126/0, 7-12=-1205<br>01/0, 6-14=0/666,<br>54/589 | 37,<br>5,<br>⁄/0,  |   |  |   |       |       |        | Arris A | ORTHO         | Rolling         |
| NOTES   |  |   |  |   |  |   |       |       | -      |         | 054           | , <u> </u>      |
| I) Unbalan  | ed floor live loads have   | been considered for   |  |   |  |   |       |       | 3      |         | SEA           | L : E           |
| this desig  | jn.  |   |  |   |  |   |       |       |        |         | 2867          | 77 : 2          |
| 2) Refer to   | girder(s) for truss to trus  | s connections.  |  |   |  |   |       |       |        |         |               | 1 - Z -         |
| <ol> <li>Provide r</li> </ol>   | nechanical connection (  | by others) of truss to  | )<br>,   |   |  |   |       |       |        | -       | N             | 1 3             |
| bearing p   | plate capable of withstan  | iding 444 lb uplift at j  | oint   |   |  |   |       |       |        | 20      | SNO.          | FRILS           |
| 11.<br>4) This trus<br>load of 2  | s has been designed for<br>50.0lb live and 3.0lb dea   | a moving concentra<br>ad located at all mid   | ted  |   |  |   |       |       |        | 111     | MAN L. G      | ALINSTIT        |
| panels a  | nd at all panel points alo   | ng the Top Chord ar   | nd   |   |  |   |       |       |        |         | 111111        | mm              |
| Bottom C  | Chord, nonconcurrent wit   | th any other live load  | s.   |   |  |   |       |       |        |         | 1000          |                 |

July 2,2025



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 BCEL Building Component Science Use Component Categories (http://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 | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|-----------------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 2FGE2 | Floor Supported Gable |     | 1   | Job Reference (optional)      | 174582487 |

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:36



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)



| Job         | Truss | Truss Type | Qty                          | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|------------------------------|-----|-------------------------------|-----------|
| 2412-1161-A | 2F3B  | Floor      | 8 1 Job Reference (optional) |     | Job Reference (optional)      | 174582488 |



1-0-0

1-0-0 15-10-0

| Scale = | 1:36.8 |
|---------|--------|
|---------|--------|

| Loading                        | (psf)  | Spacing  | 1-7-3           | CSI      |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |
|--------------------------------|--|--|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL                           | 40.0   | Plate Grip DOL                                 | 1.00            | TC       | 0.74 | Vert(LL) | -0.19 | 13-14 | >993   | 480 | MT20          | 244/190         |
| TCDL                           | 10.0   | Lumber DOL                                     | 1.00            | BC       | 0.55 | Vert(CT) | -0.26 | 13-14 | >723   | 360 |               |                 |
| BCLL                           | 0.0  | Rep Stress Incr                                | NO              | WB       | 0.39 | Horz(CT) | 0.04  | 11    | n/a    | n/a |               |                 |
| BCDL                           | 5.0  | Code   | IRC2021/TPI2014 | Matrix-S |      |          |       |       |        |     | Weight: 81 lb | FT = 20%F, 12%E |
| LUMBER                         |  |  |                 |          |      |          |       |       |        |     |               |                 |
| TOP CHORD                      | 2x4 SP No.2(flat)                                  |  |                 |          |      |          |       |       |        |     |               |                 |
| BOT CHORD                      | 2x4 SP SS(flat)                                    |  |                 |          |      |          |       |       |        |     |               |                 |
| WEBS                           | 2x4 SP No.3(flat)                                  |  |                 |          |      |          |       |       |        |     |               |                 |
| OTHERS                         | 2x4 SP No.3(flat)                                  |  |                 |          |      |          |       |       |        |     |               |                 |
| BRACING                        |  |  |                 |          |      |          |       |       |        |     |               |                 |
| TOP CHORD                      | Structural wood she<br>6-0-0 oc purlins. ex        | eathing directly applie<br>cept end verticals. | ed or           |          |      |          |       |       |        |     |               |                 |
| BOT CHORD                      | Rigid ceiling directly<br>bracing.                 | applied or 10-0-0 or                           | c               |          |      |          |       |       |        |     |               |                 |
| REACTIONS                      | (size) 11=0-3-8                                    | 18=0-3-8                                       |                 |          |      |          |       |       |        |     |               |                 |
|                                | Max Grav 11=686 (I                                 | , 10_0 0 0<br>LC 1). 18=681 (LC 1              | )               |          |      |          |       |       |        |     |               |                 |
| FORCES                         | (lb) - Maximum Corr                                | pression/Maximum                               |                 |          |      |          |       |       |        |     |               |                 |
|                                | Tension  |  |                 |          |      |          |       |       |        |     |               |                 |
| TOP CHORD                      | 1-18=-263/18, 10-11                                | 1=-261/10, 1-2=-16/1                           | ,               |          |      |          |       |       |        |     |               |                 |
|                                | 2-3=-1611/0, 3-4=-2                                | 486/0, 4-5=-2486/0,                            |                 |          |      |          |       |       |        |     |               |                 |
|                                | 5-6=-2486/0, 6-7=-2                                | 253/0, 7-8=-1427/0,                            |                 |          |      |          |       |       |        |     |               |                 |
|                                | 8-9=-1427/0, 9-10=0                                | 0/0  |                 |          |      |          |       |       |        |     |               |                 |
| BOT CHORD                      | 17-18=0/1113, 16-1                                 | 7=0/1113, 15-16=0/2                            | 2106,           |          |      |          |       |       |        |     |               |                 |
|                                | 14-15=0/2486, 13-1                                 | 4=0/2494, 12-13=0/1                            | 1955,           |          |      |          |       |       |        |     |               |                 |
|                                | 11-12=0/787  |  |                 |          |      |          |       |       |        |     |               |                 |
| WEBS                           | 4-15=-267/61, 5-14=                                | =-154/141, 2-16=0/63                           | 35,             |          |      |          |       |       |        |     |               |                 |
|                                | 3-16=-645/0, 3-15=-                                | 90/643, 2-17=-68/25                            | 59,             |          |      |          |       |       |        |     |               | 11.             |
|                                | 2-18=-12/4/0, 9-11=                                | =-1010/0, 9-12=0/818                           | 8,              |          |      |          |       |       |        |     | "" CA         | 5 111           |
|                                | 8-12=-263/54, 7-12=                                | =-674/0, 7-13=0/411,                           |                 |          |      |          |       |       |        |     | TH UN         | NOIL            |
|                                | 6-13=-314/81, 6-14=                                | =-310/301                                      |                 |          |      |          |       |       |        | 5   | ON JERS       | W/ANI           |
| NOTES                          |  |  |                 |          |      |          |       |       |        | :2  |               | 91. 31          |
| 1) Unbalance                   | ed floor live loads have                           | e been considered fo                           | r               |          |      |          |       |       |        |     | Tor Ju        | 1. 2            |
| this design                    | ).<br>haa haan daalar! f-                          |  | a ta d          |          |      |          |       |       | 1      |     | -             | 11 8            |
| <ol> <li>Inis truss</li> </ol> | nas been designed to                               | r a moving concentra                           | aleu            |          |      |          |       |       | =      |     | SEA           | L 1 1           |
| nanels and                     | u.uu live anu s.ulb de<br>d at all papel pointe al | au localeu al all MIO                          | nd              |          |      |          |       |       | =      | :   | 2007          | 77 : 2          |
| panels and                     | d at all panel points al                           | ong the Top Chord a                            | nd              |          |      |          |       |       |        | 2   | 286/          | // : =          |

Bottom Chord, nonconcurrent with any other live loads.
Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



Page: 1

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 **ANSUTP11 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.sbcaccomponents.com)

E RENCO

| Job         | Truss | Truss Type | Qty                           | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-------------------------------|-----|-------------------------------|-----------|
| 2412-1161-A | 2F14  | Floor      | r 12 1 Job Reference (optiona |     | Job Reference (optional)      | 174582489 |

Structural LLC Thurmont MD - 21788

1)

2)

3)

4)



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



| Joł  | 0  | Truss  | Truss Typ | e  | Qty           | Ply          | Stonefie  | eld Rev 3-Elev 1-Floor   |
|------|--|--|-----------|--|---------------|--------------|-----------|--|
| 24   | 12-1161-A  | 2F14   | Floor     |  | 12            | 1            |           | I74582489  |
| Stru | ctural LLC Thurmont MD -   | 21788  |           | Run: 25 20 S. May 1  | 2025 Print: 2 | 25.2.0.S.May | 13 2025 M | erence (optional)<br>/iTek Industries, Inc. Mon. Jun 30 14:56:33 Page: 2   |
| 0110 |  | 21700,                                       |           | ID:xERO2g4qgUEj?J  | hKoPDf6uy9r   | neg-RfC?Psl  | B70Hq3NS  | gPqnL8w3ulTXbGKWrCDoi7J4zJC?f  |
| 12)  | 6th Moving Load: Lum<br>Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 13-24=-7, 1-12:<br>Concentrated Loads (lb                              | ber Increase=1.25, Plate<br>=-13             | 25)       | Vert: 13-24=-7, 1-12=-13<br>Concentrated Loads (lb)<br>Vert: 11=-5, 8=-253<br>19th Moving Load: Lumber Incre<br>Increase=-125                            | ase=1.25, F   | Plate        | 37)       | 31st Moving Load: Lumber Increase=1.25, Plate<br>Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 13-24=-7, 1-12=-13<br>Concentrated Loads (lb)                         |
| 13)  | Vert: 11=-5, 38=-253<br>7th Moving Load: Lum<br>Increase=1.25<br>Uniform Loads (lb/ft)   | ber Increase=1.25, Plate                     |           | Uniform Loads (lb/ft)<br>Vert: 13-24=-7, 1-12=-13<br>Concentrated Loads (lb)<br>Vert: 9=-253, 11=-5  |               |              | 38)       | Vert: 11=-5, 33=-253<br>32nd Moving Load: Lumber Increase=1.25, Plate<br>Increase=1.25<br>Uniform Loads (b/ft)   |
| 14)  | Concentrated Loads (lb<br>Vert: 7=-253, 11=-5<br>8th Moving Load: Lum<br>Increase=1.25   | ber Increase=1.25, Plate                     | 20)       | Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 13-24=-7, 1-12=-13<br>Concentrated Loads (lb)  | ase=1.25, F   | Plate        | 39)       | Concentrated Loads (lb)<br>Vert: 11=-5, 24=-253<br>33rd Moving Load: Lumber Increase=1.25, Plate<br>Increase=1.25  |
| 15)  | Vert: 13-24=-7, 1-12:<br>Concentrated Loads (Ib/It)<br>Vert: 11=-5, 39=-253<br>9th Moving Load: Lum<br>Increase=1.25<br>Uniform Loads (Ib/ft)  | =-13<br>))<br>}<br>ber Increase=1.25, Plate  | 27)       | Vert: 10=-253, 11=-5<br>21st Moving Load: Lumber Increa<br>Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 13-24=-7, 1-12=-13<br>Concentrated Loads (lb) | ase=1.25, F   | Plate        | 40)       | Vert: 13-24=-7, 1-12=-13<br>Concentrated Loads (lb)<br>Vert: 11=-5, 23=-253<br>34th Moving Load: Lumber Increase=1.25, Plate<br>Increase=1.25                          |
| 16)  | Vert: 13-24=-7, 1-12:<br>Concentrated Loads (lb<br>Vert: 11=-5, 40=-253<br>10th Moving Load: Lur<br>Increase=1.25<br>Uniform Loads (lb/ft)     | =-13<br>5)<br>}<br>nber Increase=1.25, Plate | 28)       | 2nd Moving Load: Lumber Incr<br>Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 13-24=-7, 1-12=-13<br>Concentrated Loads (lb)<br>Vert: 115, 25253        | ease=1.25,    | Plate        | 41)       | Vert: 13-24=-7, 1-12=-13<br>Concentrated Loads (lb)<br>Vert: 11=-5, 22=-253<br>35th Moving Load: Lumber Increase=1.25, Plate<br>Increase=1.25<br>Uniform Loads (lb/ft) |
| 17)  | Vert: 13-24=-7, 1-12:<br>Concentrated Loads (lb<br>Vert: 11=-5, 41=-253<br>11th Moving Load: Lur<br>Increase=1.25<br>Uniform Loads (lb/ft)     | =-13<br>b)<br>mber Increase=1.25, Plate      | 29)       | 23rd Moving Load: Lumber Increa<br>Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 13-24=-7, 1-12=-13<br>Concentrated Loads (lb)<br>Vert: 11=-5, 26=-253 | ase=1.25, F   | Plate        | 42)       | Vert: 13-24=-7, 1-12=-13<br>Concentrated Loads (lb)<br>Vert: 11=-5, 21=-253<br>36th Moving Load: Lumber Increase=1.25, Plate<br>Increase=1.25<br>Uniform Loads (lb/ft) |
| 18)  | Concentrated Loads (lk<br>Vert: 11=-5, 42=-253<br>12th Moving Load: Lur<br>Increase=1.25   | = 13<br>))<br>3<br>mber Increase=1.25, Plate | 30)       | 24th Moving Load: Lumber Increa<br>Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 13-24=-7, 1-12=-13<br>Concentrated Loads (lb)                         | ase=1.25, F   | Plate        | 43)       | Velt: 13-24=-7, 1-12=-13<br>Concentrated Loads (lb)<br>Vert: 11=-5, 19=-253<br>37th Moving Load: Lumber Increase=1.25, Plate<br>Increase=1.25                          |
| 19)  | Uniform Loads (Ib/tt)<br>Vert: 13-24=-7, 1-12:<br>Concentrated Loads (Ib/tt)<br>Vert: 12=-253, 11=-5<br>13th Moving Load: Lur<br>Increase=1.25 | =-13<br>b)<br>5<br>mber Increase=1.25, Plate | 31)       | Vert: 11=-5, 27=-253<br>25th Moving Load: Lumber Increa<br>Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 13-24=-7, 1-12=-13<br>Concentrated Loads (lb) | ase=1.25, F   | Plate        | 44)       | Uniform Loads (lb/ft)<br>Vert: 13-24=-7, 1-12=-13<br>Concentrated Loads (lb)<br>Vert: 11=-5, 18=-253<br>38th Moving Load: Lumber Increase=1.25, Plate<br>Increase=1.25 |
| 20)  | Uniform Loads (lb/ft)<br>Vert: 13-24=-7, 1-12:<br>Concentrated Loads (lb<br>Vert: 11=-5, 2=-253<br>14th Moving Load: Lur                       | =-13<br>))<br>mber Increase=1.25, Plate      | 32)       | Vert: 20=-253, 11=-5<br>26th Moving Load: Lumber Incre<br>Increase=1.25<br>Uniform Loads (Ib/ft)<br>Vert: 13-24=-7, 1-12=-13                             | ase=1.25, F   | Plate        | 45)       | Uniform Loads (lb/ft)<br>Vert: 13-24=-7, 1-12=-13<br>Concentrated Loads (lb)<br>Vert: 17=-253, 11=-5<br>39th Moving Load: Lumber Increase=1.25, Plate                  |
|      | Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 13-24=-7, 1-12:<br>Concentrated Loads (lb<br>Vert: 11=-5, 3=-253                               | =-13<br>>)                                   | 33)       | Concentrated Loads (lb)<br>Vert: 11=-5, 28=-253<br>27th Moving Load: Lumber Increa<br>Increase=1.25<br>Uniform Loads (lb/ft)                             | ase=1.25, F   | Plate        |           | Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 13-24=-7, 1-12=-13<br>Concentrated Loads (lb)<br>Vert: 16=-253, 11=-5  |
| 21)  | 15th Moving Load: Lur<br>Increase=1.25<br>Uniform Loads (Ib/ft)<br>Vert: 13-24=-7, 1-12:<br>Concentrated Loads (Ib<br>Vort: 115, 4253          | nber Increase=1.25, Plate<br>=-13<br>>)      | 34)       | Vert: 13-24=-7, 1-12=-13<br>Concentrated Loads (lb)<br>Vert: 11=-5, 29=-253<br>28th Moving Load: Lumber Increa<br>Increase=1.25<br>Uniform Loads (lb/ft) | ase=1.25, F   | Plate        | 46)       | 40th Moving Load: Lumber Increase=1.25, Plate<br>Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 13-24=-7, 1-12=-13<br>Concentrated Loads (lb)                         |
| 22)  | 16th Moving Load: Lur<br>Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 13-24=-7, 1-12:<br>Concentrated Loads (lb                             | nber Increase=1.25, Plate<br>=-13            | 35)       | Vert: 13-24=-7, 1-12=-13<br>Concentrated Loads (lb)<br>Vert: 11=-5, 30=-253<br>29th Moving Load: Lumber Increa<br>Increase=1.25                          | ase=1.25, F   | Plate        | 47)       | 41st Moving Load: Lumber Increase=1,25, Plate<br>Increase=1,25<br>Uniform Loads (ID/#)<br>Vert: 13-24=7, 142=13<br>Concentrated Loads (ID                              |
| 23)  | Vert: 11=-5, 5=-253<br>17th Moving Load: Lur<br>Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 13-24=-7, 1-125                                | mber Increase=1.25, Plate                    | 36)       | Uniform Loads (lb/ft)<br>Vert: 13-24=-7, 1-12=-13<br>Concentrated Loads (lb)<br>Vert: 11=-5, 31=-253<br>30th Moving Load: Lumber Incre                   | ase=1.25, F   | Plate        | 48)       | Vert: 12=-253, 11=-5<br>42nd Moving Load: Lumber Increase=1.25, Plate<br>Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 13:24=-7, 1-12=-13                            |
| 24)  | Concentrated Loads (lb<br>Vert: 11=-5, 6=-253<br>18th Moving Load: Lur<br>Increase=1.25<br>Uniform Loads (lb/ft)                               | o)<br>nber Increase=1.25, Plate              |           | Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 13-24=-7, 1-12=-13<br>Concentrated Loads (lb)<br>Vert: 11=-5, 32=-253                                    |               |              |           | Concentrated Loads (Ib)<br>Vert: 13=-253.0)=-5<br>Vert: 13=-253.0)=-5<br>Vert: 13=-253.0)=-5   |

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 BCEL Building Component Science United for the Structure Buckling Component Advance Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

July 2,2025



| Job         | Truss | Truss Type            | Qty                          | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|-----------------------|------------------------------|-----|-------------------------------|-----------|
| 2412-1161-A | 2FGE5 | Floor Supported Gable | 4 1 Job Reference (optional) |     | Job Reference (optional)      | 174582490 |



Page: 1



Scale = 1:31.8

| Loading<br>TCLL<br>TCDL<br>BCLL   |   | (psf)<br>40.0<br>10.0<br>0.0  | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr   | 1-4-0<br>1.00<br>1.00<br>NO   |  | CSI<br>TC<br>BC<br>WB  | 0.32<br>0.31<br>0.16   | <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>18 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20 | <b>GRIP</b><br>244/190 | o/ E                       |
|---|---|---|---|---|--|--|--|---|-------------------------------|-----------------------|-----------------------------|--------------------------|----------------|------------------------|----------------------------|
| BCDL  |   | 5.0   | Code  | IRC2  | J21/TPI2014  | Matrix-R   |  |   |                               |                       |                             |                          | Weight: 81 lb  | FI = 20%F, 12%         | %E                         |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD | 2x4 SP N<br>2x4 SP N<br>2x4 SP N<br>2x4 SP N<br>Structura<br>6-0-0 oc<br>Rigid ceil<br>bracing. | o.2(flat)<br>o.2(flat)<br>o.3(flat)<br>o.3(flat)<br>I wood shea<br>purlins, exc<br>ing directly   | athing directly applie<br>sept end verticals.<br>applied or 6-0-0 oc  | ed or   | BOT CHORD  | 33-34=-5/21, 32<br>30-31=-5/21, 25<br>26-27=-5/21, 25<br>23-24=-5/21, 22<br>20-21=-5/21, 19<br>15-20=-863/0, 2<br>4-31=-269/14, 8<br>11-24=-268/14, 13-22=-266/16,   | 2-33=-5/21,<br>3-30=-5/21,<br>5-26=-5/21,<br>2-23=-5/21,<br>2-20=-5/21,<br>2-33=-268/1<br>5-30=-269/1<br>3-26=-269/1<br>12-23=-269<br>14-21=-27-   | 31-32=-5/21,<br>27-29=-5/21,<br>24-25=-5/21,<br>21-22=-5/21,<br>18-19=-5/21<br>5, 3-32=-269/<br>4, 6-29=-269/<br>5, 9-25=-269/<br>9/11,<br>4/13, 16-19=-2                                       | /14,<br>/14,<br>/14,<br>273/0 |                       | Vert: 15                    | =-621                    |                |                        |                            |
| REACTIONS   | (size)<br>Max Uplift<br>Max Grav  | 18=19-0-4<br>21=19-0-4<br>24=19-0-4<br>31=19-0-4<br>31=19-0-4<br>31=19-0-4<br>18=-13 (Ll<br>23=-5 (LC<br>23=-5 (LC<br>25=-6 (LC<br>30=-7 (LC<br>20=278 (L<br>20=280 (L<br>20=280 (L<br>20=280 (L<br>20=280 (L<br>20=280 (L<br>20=280 (L<br>20=280 (L)))))))))))))))))))))))))))))))))))) | 1, 19=19-0.4, 20=19,<br>1, 22=19-0.4, 23=19,<br>1, 22=19-0.4, 23=19,<br>1, 22=19-0.4, 30=19,<br>1, 22=19-0.4, 33=19,<br>1, 22=19-0.4, 33=19,<br>1, 22=19-0.4, 33=19,<br>1, 22=19-0.4, 33=19,<br>1, 22=-8 (LC 43),<br>42), 22=-8 (LC 43),<br>42), 22=-8 (LC 43),<br>42), 22=-8 (LC 41),<br>40), 26=-6 (LC 12),<br>41), 29=-6 (LC 40),<br>39), 31=-6 (LC 40),<br>39), 31=-6 (LC 36),<br>37), 33=-6 (LC 36),<br>37), 33=-6 (LC 36),<br>C 55), 21=286 (LC 4),<br>C 58), 25=280 (LC 4),<br>C 56), 27=280 (LC 4),<br>C 52), 32=280 (LC 4),<br>C 52), 52=280 (LC 4), | -0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-5,<br>-0-4,<br>-0-4,<br>-0-5,<br>-0-4,<br>-0-4,<br>-0-5,<br>-0-4,<br>-0-4,<br>-0-5,<br>-0-5,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-5,<br>-0-4,<br>-0-5,<br>-0-4,<br>-0-5,<br>-0-4,<br>-0-5,<br>-0-4,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-5,<br>-0-0,<br>-0,-0,<br>-0,-0,-0,<br>-0,-0,-0,-0,<br>-0,-0,-0,-0,-0,-0,-0,-0,-0,-0,-0,-0,-0,- | <ol> <li>All plates a<br/>indicated.</li> <li>Gable req</li> <li>Truss to b<br/>braced ag</li> <li>Gable stud</li> <li>Gable stud</li> <li>N/A</li> <li>Load case<br/>designer n<br/>for the inte<br/>for the inte<br/>panels and<br/>Bottom Cf</li> <li>Recomme<br/>10-00-00 d</li> </ol> | are 1.5x3 (  ) MT2<br>uires continuous b<br>e fully sheathed fr<br>ainst lateral move<br>ds spaced at 1-4-C<br>e(s) 1 has/have be<br>nust review loads<br>ended use of this t<br>has been designe<br>0.0lb live and 3.0ll<br>d at all panel point<br>ord, nonconcurre<br>nd 2x6 strongbacl<br>oc and fastened to | 0 unless of<br>pottom chor<br>rom one fac<br>ment (i.e. d<br>0 oc.<br>een modified<br>to verify that<br>truss.<br>ed for a mov<br>b dead loca<br>ts along the<br>int with any<br>ks, on edge<br>o each truss | therwise<br>d bearing.<br>e or securely<br>iagonal web).<br>d. Building<br>at they are con-<br>ving concentra<br>ted at all mid<br>Top Chord a<br>other live loar<br>a, spaced at<br>with 3-10d | rrect<br>ated<br>nd<br>ds.    |                       | 111.                        | . Ann                    | ORTH CA        | ROLLAR                 |                            |
| FORCES<br>TOP CHORD   | (lb) - Max<br>Tension<br>1-34=-26<br>2-3=-21/5<br>6-7=-21/5<br>11-12=-2<br>14-15=-2             | 33=280 (L<br>timum Com<br>0/23, 17-18<br>5, 3-4=-21/5<br>5, 7-8=-21/5<br>1/5, 12-13=<br>1/5, 15-16=   | C 50), 34=264 (LC 4<br>pression/Maximum<br>=-256/19, 1-2=-21/5<br>i, 4-5=-21/5, 5-6=-21<br>i, 8-9=-21/5, 9-11=-2<br>-21/5, 13-14=-21/5<br>-21/5, 16-17=-21/5  | 49)<br>5,<br>1/5,<br>21/5,  | (0.131" X :<br>at their our<br>9) CAUTION<br>LOAD CASE(:<br>1) Dead + F<br>Plate Inc<br>Uniform I<br>Vert: 1<br>Concentr   | 3") nails. Strongb<br>ter ends or restrai<br>, Do not erect trus<br><b>S)</b> Standard<br>Floor Live (balance<br>rease=1.00<br>Loads (lb/ft)<br>8-34=-7, 1-17=-67<br>rated Loads (lb)  | acks to be a<br>ined by othe<br>ss backward<br>ed): Lumber<br>7  | attached to wa<br>r means.<br>Is.<br>r Increase=1.(   | alls<br>D0,                   |                       | HUND.                       | J. J. J.                 | 2867           | EP. St.                | (IIII)<br>(IIII)<br>(IIII) |

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 BCEL Building Component Science Use Component Categories (http://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 | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 2F21  | Floor      | 12  | 1   | Job Reference (optional)      | 174582491 |

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:35 Page: 1 ID:UYeLstaTi1pimJgvQPn?UZzoZ0t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



1-0-0 13-10-8

Scale = 1:36.8

Plate Offsets (X, Y): [14:0-1-8,Edge]

| Loa<br>TCL<br>TCC<br>BCL<br>BCC                      | u <b>ding</b><br>_L<br>DL<br>_L<br>DL   | (psf)<br>40.0<br>10.0<br>0.0<br>5.0   | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.00<br>1.00<br>YES<br>IRC2021/TPI2014 | CSI<br>TC<br>BC<br>WB<br>Matrix-S | 0.88<br>0.62<br>0.38 | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in<br>-0.18<br>-0.24<br>0.03 | (loc)<br>12-13<br>12-13<br>9 | l/defl<br>>915<br>>680<br>n/a | L/d<br>480<br>360<br>n/a | PLATES<br>MT20<br>Weight: 71 lb | <b>GRIP</b><br>244/190<br>FT = 20%F, 12 | :%E   |
|--|---|---|--|---|-----------------------------------|----------------------|--|------------------------------|------------------------------|-------------------------------|--------------------------|---------------------------------|---|-------|
| LUN<br>TOF<br>BOT<br>WEI<br>OTH<br>BR/<br>TOF<br>BOT | MBER<br>P CHORD<br>T CHORD<br>BS<br>HERS<br>ACING<br>P CHORD<br>T CHORD   | 2x4 SP No.2(flat)<br>2x4 SP SS(flat)<br>2x4 SP No.3(flat)<br>2x4 SP No.3(flat)<br>Structural wood shea<br>2-2-0 oc purlins, exc<br>Rigid ceiling directly<br>bracing.                     | athing directly applie<br>cept end verticals.<br>applied or 10-0-0 oc  | ed or   |                                   |                      |  |                              |                              |                               |                          |                                 |   |       |
| REA  | ACTIONS   | Max Grav 9=743 (LC  | C 1), 16=749 (LC 1)  |   |                                   |                      |  |                              |                              |                               |                          |                                 |   |       |
| FOF  | RCES  | (lb) - Maximum Com<br>Tension   | pression/Maximum   |   |                                   |                      |  |                              |                              |                               |                          |                                 |   |       |
| TOF  | P CHORD   | 1-16=-248/85, 8-9=-2<br>2-3=-1201/0, 3-4=-23<br>5-6=-2330/0, 6-7=-16  | 266/22, 1-2=0/0,<br>346/0, 4-5=-2346/0,<br>632/0, 7-8=-16/1  |   |                                   |                      |  |                              |                              |                               |                          |                                 |   |       |
| BOT  | T CHORD   | 15-16=0/585, 14-15=<br>12-13=0/2346, 11-12<br>9-10=0/1089   | =0/1842, 13-14=0/23<br>2=0/2158, 10-11=0/2   | 346,<br>2158,                                   |                                   |                      |  |                              |                              |                               |                          |                                 |   |       |
| WE   | BS  | 4-14=-293/28, 5-13=<br>2-15=0/802, 3-15=-8<br>7-9=-1276/0, 7-10=0<br>6-11=-124/230, 6-12  | -225/123, 2-16=-95<br>35/0, 3-14=0/777,<br>/706, 6-10=-673/25,<br>=-84/322, 5-12=-298  | 1/0,<br>8/298                                   |                                   |                      |  |                              |                              |                               |                          | TH CA                           | Rollin                                  |       |
| NOT  | TES   | ,-  | ,  |   |                                   |                      |  |                              |                              |                               | 5                        | OP                              | de Main                                 |       |
| 1)   | Unbalance<br>this design  | ed floor live loads have<br>h.  | been considered fo   | r   |                                   |                      |  |                              |                              |                               | 14                       | AN                              | 12.7                                    |       |
| 2)   | Refer to gi   | rder(s) for truss to trus   | s connections.   |   |                                   |                      |  |                              |                              |                               |                          | 1                               |   | E     |
| 3)<br>4)   | This truss<br>load of 250<br>panels and<br>Bottom Ch<br>Recomment<br>10-00-00 co<br>(0.131" X 30<br>cot their cut | has been designed for<br>0.0lb live and 3.0lb dea<br>d at all panel points alo<br>nord, nonconcurrent with<br>nd 2x6 strongbacks, or<br>bo and fastened to each<br>3") nails. Strongbacks | a moving concentra<br>ad located at all mid<br>ong the Top Chord a<br>th any other live load<br>n edge, spaced at<br>h truss with 3-10d<br>to be attached to way<br>we other mocon | ated<br>nd<br>ds.<br>alls                       |                                   |                      |  |                              |                              | THE PARTY OF                  |                          | SEA<br>2867                     | FR.St.                                  | annun |
| 5)   | CAUTION.  | , Do not erect truss ba   | ckwards.   |   |                                   |                      |  |                              |                              |                               |                          | 11, L.G.                        | ALIM                                    |       |
|  |   | ,   |  |   |                                   |                      |  |                              |                              |                               |                          | 11111111                        | 1111                                    |       |

LOAD CASE(S) Standard

July 2,2025

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 **ANSUTP11 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)



| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 2F16  | Floor      | 4   | 1   | Job Reference (optional)      | 174582492 |

 Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:33
 Page: 1

 ID:q9o53XdIYSk2A0YXkcLFEizoZ27-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f
 Page: 1



1-0-0 14-7-8

Scale = 1:36.2

Plate Offsets (X, Y): [14:0-1-8,Edge]

| LUMBER<br>TOP CHORD       2x4 SP No.2(flar)<br>BOT CHORD         DOT CHORD       2x4 SP SN.3(flar)<br>OTHERS         2x4 SP No.3(flar)<br>OTHERS       2x4 SP No.3(flar)<br>OTHERS         BRACING       Structural wood sheathing directly applied or<br>2x-20 oc purifies, except end verticals.<br>BOT CHORD         Structural wood sheathing directly applied or<br>10P CHORD       Structural wood sheathing directly applied or<br>2x-20 oc purifies, except end verticals.<br>BOT CHORD         BRACING       Structural wood sheathing directly applied or 10-00 oc<br>bracing.         REACTONS (size)       9=0-3.8, 16=0-3.8,<br>Max Grav         Max Grav       9=744 (C 1), 16=-791 (L C 1)         FORCES       (b). Maximum Compression/Maximum<br>Tension         Top CHORD       1-16=-26323, 8-9=-26523, 1-2=-00,<br>2-3=-16670, 3-45-2600, 0, 7-8=-16/1         BOT CHORD       1-16=-20321, 1-4=002060,<br>1-2-13=0/2660, 11-12=0/2324, 0-11=0/2324,<br>9-10=0/157         Structural Wood Sheat A = 0-86707,<br>7-9=-3350, 7-10=-7076, 4-13=-4002060,<br>2-15=-0750, 3-15=-7540, 3-14=69707,<br>7-9=-3350, 7-10=-7076, 4-10=-0767,<br>6-11=-121/234, 6-12=-60/354, 5-12=-338/251         NOTES       1) Unbalanced floor live loads have been considered for<br>this design.         21) This truss has been designed for a moving concentrated<br>load of 22.001bi/w and 3.01bi dead of calce at all mid<br>panels and at all panel points along the Top Chord and<br>Bottom Chord, nonconcurrent with any othen live loads.         30       Recommend 2x6 strongbacks, on edge, spaced at<br>10-00-00 to and fastered to each truss with 3-10d<br>( | Loading<br>TCLL<br>TCDL<br>BCLL<br>BCDL                                  | (psf)<br>40.0<br>10.0<br>0.0<br>5.0   | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code               | 2-0-0<br>1.00<br>1.00<br>YES<br>IRC2021/TPI2014 | CSI<br>TC<br>BC<br>WB<br>Matrix-S | 0.88<br>0.59<br>0.37 | <b>DEFL</b><br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in<br>-0.18<br>-0.24<br>0.03 | (loc)<br>12-13<br>12-13<br>9 | l/defl<br>>962<br>>710<br>n/a | L/d<br>480<br>360<br>n/a | PLATES<br>MT20<br>Weight: 74 lb | <b>GRIP</b><br>244/190<br>FT = 20%F, 12%E |
|--|--|---|---|---|-----------------------------------|----------------------|---|------------------------------|------------------------------|-------------------------------|--------------------------|---------------------------------|---|
| BRACING<br>TOP CHORD Structural wood sheathing directly applied or<br>2-2-0 oc purifins, except end verticals.<br>BOT CHORD Rigid ceiling directly applied or 10-0-0 oc<br>bracing.<br>REACTONS (size) 9=0-3-8, 16=0-3-8<br>(b) - Maximum Compression/Maximum<br>Tension<br>TOP CHORD 1-16=-26323, 8-9=-265/23, 1-2=0/0,<br>2-3=-1667/0, 3-4=-26600, 4-5=-26600,<br>5-6=-25490, 0-7=-17400, 7-8=-16/1<br>BOT CHORD 1-16=-07-17400, 7-8=-16/1<br>BOT CHORD 1-5-16=0/1087, 14-15=0/2246, 13-14=0/2660,<br>12-13=0/2860, 11-12=0/2324, 10-11=0/2324,<br>9-10=-0/1157<br>MVEBS 4-14=-272151, 5-13=-196/146, 2-16=-1306/0,<br>2-15=0/755, 3-15=-7540, 3-14=69/707,<br>7-9=-13550, 7-10=0776, 6-10=-73815,<br>6-11=-121/234, 6-12=-60/354, 5-12=-398/251<br>NOTES<br>1) Unbalanced floor live loads have been considered for<br>this design.<br>OTES<br>1) Unbalanced floor live loads have been considered for<br>this design.<br>3) Recommend 2x6 strongbacks, on edge, spaced at<br>10-00-00 can da tall panel points along the Top Chord and<br>Bottom Chord, nonconcurrent with any other live loads.<br>3) Recommend 2x6 strongbacks to be attached to walls<br>at their outer ends or restrained by other means.<br>4) CAUTTON, Do not erect truss backwards.<br>LOAD CASE(5) Strandral   | LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS                       | 2x4 SP No.2(flat)<br>2x4 SP SS(flat)<br>2x4 SP No.3(flat)<br>2x4 SP No.3(flat)<br>2x4 SP No.3(flat)     |   |   |                                   |                      | L   |                              |                              |                               |                          | i i o gini i i i o              |   |
| bracing.<br>REACTIONS (size) 9=0-3-8, 16=0-3-8<br>Max Grav 9=784 (LC 1), 16=791 (LC 1)<br>FORCES (b)-Maximum Compression/Maximum<br>Tension<br>TOP CHORD 1-16=-263/23, 8-9=-265/23, 1-2=0/0,<br>2-3=-1667/0, 3-4=-265/02, 4-5=-2650/0,<br>5-6=-2549/0, 6-7=-1746/0, 6-7=-1746/0, 6-7=-1746/0,<br>12-13=0/2660, 11-12=0/2324, 10=11=0/2324,<br>9=10=0/1157<br>WEBS 4-14=-272/51, 5-13=-196/146, 2-16=-1306/0,<br>2-15=0/755, 3-15=-754/0, 3-14=-6/9707,<br>7-9=-1355/0, 7-10=0/767, 6-10=-738/5,<br>6-11=-121/234, 6-12=-60/354, 5-12=-398/251<br>NOTES<br>1) Unbalanced floor live loads have been considered for<br>this design.<br>2) This truss has been designed for a moving concentrated<br>load of 250.01b live and 3.0b dead located at all mid<br>panels and at all panel points along the Top Chord and<br>Bottom Chord, nonconcurrent with any other live loads.<br>3) Recommed 2x6 strongbacks, on deg., spaced at<br>10-00-00 oc and fastened to each truss with 3-10d<br>(0,131* X 3') nails. Strongbacks to be attached to walls<br>at their outler ends or restrained by other means.<br>4) CAUTION, Do not erect truss backwards.<br>LOAD CASE(5) Standard  | BRACING<br>TOP CHORD<br>BOT CHORD  | Structural wood sheat<br>2-2-0 oc purlins, exc<br>Rigid ceiling directly                                | athing directly applie<br>cept end verticals.<br>applied or 10-0-0 od                   | ed or   |                                   |                      |   |                              |                              |                               |                          |                                 |   |
| FORCES       (b) - Maximum Compression/Maximum<br>Tension         TOP CHORD       1-16=-263/23, 8-9=-265//23, 1-2=0/0,<br>2-3=-1667/0, 3-48=-2660/0, 6-58=-2660/0,<br>5-68=-2549/0, 6-78=-1746/0, 7-88=-16/1         BOT CHORD       15-16=01/087, 14-15=0/2246, 13-14=0/2660,<br>12-13=0/2660, 11-12=0/2324, 10-11=0/2324,<br>9-10=0/1157         WEBS       4.14=-272/51, 5-13=-196/146, 2-16=-1306/0,<br>2-15=07/55, 3-158=-754/0, 3-14=-69/707,<br>6-11=-121/234, 6-12=-60/354, 5-12=-398/251         NOTES         1)       Unbalanced floor live loads have been considered for<br>this design.         20       This truss has been designed for a moving concentrated<br>load of 250.0b live and 3.0lb dead located at all mid<br>panels and at all panel points along the Top Chord and<br>Bottom Chord, nonconcurrent with any other live loads.         3)       Recommend 2x6 strongbacks, on edge, spaced at<br>10-00-00 cc and fastened to each truss with 3-10d<br>(0.131' X3') naiks. Strongbacks, on edge, spaced at<br>10-00-00 cc and fastened to walls<br>at their outer ends or restrained by other means.         4)       CAUTION, Do not erect truss backwards.         LOAD CASE(S)       Stand H   | REACTIONS  | bracing.<br>(size) 9=0-3-8, 1<br>Max Grav 9=784 (LC   | 6=0-3-8<br>C 1), 16=791 (LC 1)  |   |                                   |                      |   |                              |                              |                               |                          |                                 |   |
| To P CHORD 1:16=-263/23, 8-9=-265/23, 1-2=0/0,<br>2-3=-1667/0, 3-4=-2660/0, 4-5=-2660/0,<br>5-6=-2549/0, 6-7=-1746/0, 7-8=-16/1 BOT CHORD 15-16=0/1087, 14-15=0/2246, 13-14=0/2660,<br>12-13=0/2660, 11-12=0/2324, 10-11=0/2324,<br>9-10=0/1167 WEBS 4:14=-272/51, 5-13=-196/146, 2-16=-1306/0,<br>2-15=0/755, 3-15=-754/0, 3-14=-69/707,<br>7-9=-1355(0, 7-10=0/76, 6-10=-738/5,<br>6-11=-121/234, 6-12=-60/354, 5-12=-398/251 NOTES 10 Unbalanced floor live loads have been considered for<br>this design. 2) This truss has been designed for a moving concentrated<br>load of 250.01b live and 3.01b dead located at all mid<br>panels and at all panel points along the Top Chord and<br>Bottom Chord, nonconcurrent with any other live loads. 3) Recommend 2x6 strongbacks, on edge, spaced at<br>10-00-00 cc and fastened to each truss with 3-10d<br>(0.131* X3*) nails. Strongbacks to be attached to walls<br>at their outer ends or restrained by other means. 4) CAUTION, Do not erect truss backwards. LOAD CASE(5) Standard  | FORCES   | (lb) - Maximum Com  | pression/Maximum  |   |                                   |                      |   |                              |                              |                               |                          |                                 |   |
| BOT CHORD 15-16=0/1087, 14-15=0/2246, 13-14=0/2660,<br>12-13=0/2660, 11-12=0/2324, 10-11=0/2324,<br>9-10=0/1157<br>WEBS 4-14=-272/51, 5-13=-196/146, 2-16=-1306/0,<br>2-15=0/755, 3-15=-754/0, 3-14=-69/707,<br>7-9=-1355/0, 7-10=0/767, 6-10=-738/5,<br>6-11=-121/234, 6-12=-60/354, 5-12=-398/251<br><b>NOTES</b><br>1) Unbalanced floor live loads have been considered for<br>this design.<br>2) This truss has been designed for a moving concentrated<br>load of 250.0Ib live and 3.0Ib dead located at all mid<br>panels and at all panel points along the Top Chord and<br>Bottom Chord, nonconcurrent with any other live loads.<br>3) Recommend 2x6 strongbacks, on edge, spaced at<br>10-00-00 oc and fastened to each truss with 3-10d<br>(0.131* X 3*) nails. Strongbacks to be attached to walls<br>at their outer ends or restrained by other means.<br>4) CAUTION, Do not erect truss backwards.<br>LOAD CASE(S) Standard  | TOP CHORD  | 1-16=-263/23, 8-9=-2<br>2-3=-1667/0, 3-4=-26<br>5-6=-2549/0, 6-7=-12                                    | 265/23, 1-2=0/0,<br>660/0, 4-5=-2660/0,<br>746/0, 7-816/1                               |   |                                   |                      |   |                              |                              |                               |                          |                                 |   |
| <ul> <li>WEBS 4-14=-272/51, 5-13=-196/146, 2-16=-1306/0,<br/>2-15=0/755, 3-15=-754/0, 3-14=-69/707,<br/>7-9=-1355/0, 7-10=0/767, 6-10=-738/5,<br/>6-11=-121/234, 6-12=-60/354, 5-12=-398/251</li> <li>NOTES</li> <li>1) Unbalanced floor live loads have been considered for<br/>this design.</li> <li>2) This truss has been designed for a moving concentrated<br/>load of 250.0lb live and 3.0lb dead located at all mid<br/>panels and at all panel points along the Top Chord and<br/>Bottom Chord, nonconcurrent with any other live loads.</li> <li>3) Recommend 2x6 strongbacks, on edge, spaced at<br/>10-00-00 oc and fastened to each truss with 3-10d<br/>(0.131" X 3") nails. Strongbacks to be attached to walls<br/>at their outer ends or restrained by other means.</li> <li>4) CAUTION, Do not erect truss backwards.</li> <li>LOAD CASE(5) Standard</li> </ul>  | BOT CHORD  | 15-16=0/1087, 14-15<br>12-13=0/2660, 11-12<br>9-10=0/1157   | 5=0/2246, 13-14=0/2<br>2=0/2324, 10-11=0/2  | 2660,<br>2324,                                  |                                   |                      |   |                              |                              |                               |                          |                                 |   |
| <ul> <li>NOTES</li> <li>1) Unbalanced floor live loads have been considered for this design.</li> <li>2) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.</li> <li>3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.</li> <li>4) CAUTION, Do not erect truss backwards.</li> <li>LOAD CASE(S) Standard</li> </ul>   | WEBS   | 4-14=-272/51, 5-13=<br>2-15=0/755, 3-15=-7<br>7-9=-1355/0, 7-10=0<br>6-11=-121/234, 6-12                | -196/146, 2-16=-130<br>54/0, 3-14=-69/707,<br>/767, 6-10=-738/5,<br>=-60/354, 5-12=-390 | 06/0,<br>,<br>8/251                             |                                   |                      |   |                              |                              |                               |                          | TH CA                           | Route                                     |
| <ol> <li>Unbalanced floor live loads have been considered for<br/>this design.</li> <li>This truss has been designed for a moving concentrated<br/>load of 250.0lb live and 3.0lb dead located at all mid<br/>panels and at all panel points along the Top Chord and<br/>Bottom Chord, nonconcurrent with any other live loads.</li> <li>Recommend 2x6 strongbacks, on edge, spaced at<br/>10-00-00 oc and fastened to each truss with 3-10d<br/>(0.131" X 3") nails. Strongbacks to be attached to walls<br/>at their outer ends or restrained by other means.</li> <li>CAUTION, Do not erect truss backwards.</li> <li>LOAD CASE(S) Standard</li> </ol>  | NOTES  | , -   | ,.  |   |                                   |                      |   |                              |                              |                               | 5                        | OF LEG                          | J. H.C.                                   |
| <ul> <li>2) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.</li> <li>3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.</li> <li>4) CAUTION, Do not erect truss backwards.</li> <li>LOAD CASE(S) Standard</li> </ul>  | 1) Unbalance<br>this design  | ed floor live loads have<br>n.  | been considered fo  | r   |                                   |                      |   |                              |                              |                               |                          | AL II                           | A. A.                                     |
| <ul> <li>3) Recommend 2x6 strongbacks, on edge, spaced at<br/>10-00-00 oc and fastened to each truss with 3-10d<br/>(0.131" X 3") nails. Strongbacks to be attached to walls<br/>at their outer ends or restrained by other means.</li> <li>4) CAUTION, Do not erect truss backwards.</li> <li>LOAD CASE(S) Standard</li> </ul>  | 2) This truss<br>load of 25<br>panels and<br>Rottom Ch                   | has been designed for<br>0.0lb live and 3.0lb dea<br>d at all panel points alo                          | a moving concentra<br>ad located at all mid<br>ong the Top Chord a                      | nd  |                                   |                      |   |                              |                              | 11110                         |                          | SEA<br>2867                     |   |
| 4) CAUTION, Do not erect truss backwards.<br>LOAD CASE(S) Standard   | <ol> <li>Recomme<br/>10-00-00 (<br/>(0.131" X<br/>at their ou</li> </ol> | nd 2x6 strongbacks, or<br>oc and fastened to each<br>3") nails. Strongbacks<br>ter ends or restrained b | n edge, spaced at<br>h truss with 3-10d<br>to be attached to w<br>by other means.       | alls  |                                   |                      |   |                              |                              | 114                           |                          | OK SNGINE                       | ERGY                                      |
|  | 4) CAUTION<br>LOAD CASE(   | , Do not erect truss bac<br><b>S)</b> Standard  | ckwards.  |   |                                   |                      |   |                              |                              |                               | 1                        | L.G.                            | ALININ                                    |

July 2,2025

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 **ANSUTP11 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)



| 1   |   | -   |  | T   |  |   |   | Т  | DL  | <b>O</b> (        |   | -   |   |   |   |
|---|---|---|--|---|--|---|---|--|---|-------------------|---|---|---|---|---|
| Job   |   | Iruss   |  | Truss Ty                                  | pe   |   | Qty   |  | Чу  | Stonefi           | eld Rev 3-  | Elev 1-   | ⊢loor   |   | 174582493   |
| 2412-1161-4   | 4   | 2F18  |  | Floor                                     |  |   | 4   |  | 1   | Job Re            | eference (o   | ptional)  | )   |   | 11 1002 700   |
| Structural, LLC, T  | Thurmont, MD -  | 21788,  |  |   |  | Run: 25.20 S May<br>ID:SOQwJNx9kFg  | / 13 2025 Prir<br>?SPHmTrL6z  | t: 25<br>uzo   | 5.2.0 S May<br>23?-RfC?Ps   | 13 2025<br>B70Hq3 | MiTek Indus<br>NSgPqnL8w  | stries, Ind<br>3uITXb0  | c. Mon Jun 30<br>GKWrCDoi7J   | 0 14:56:3<br>4zJC?f   | Page: 1   |
|   | -1-2-0 <br>2  | 1-3-0<br>3x3 II (1)<br>1 37   | $\begin{array}{c c} & 1-4-4 \\ \hline 1.5x3 \\ 3x3 = \\ 2 \\ 38 \\ 3 \\ 39 \\ 4 \\ \hline 1.5x3 \\ 2 \\ 38 \\ 3 \\ 39 \\ 4 \\ \hline 1.5x3 \\ 2 \\ 38 \\ 3 \\ 39 \\ 4 \\ \hline 1.5x3 \\ 2 \\ 38 \\ 3 \\ 39 \\ 4 \\ \hline 1.5x3 \\ 2 \\ 38 \\ 3 \\ 39 \\ 4 \\ \hline 1.5x3 \\ 2 \\ 38 \\ 3 \\ 39 \\ 4 \\ \hline 1.5x3 \\ 2 \\ 38 \\ 3 \\ 39 \\ 4 \\ \hline 1.5x3 \\ 2 \\ 38 \\ 3 \\ 39 \\ 4 \\ \hline 1.5x3 \\ 2 \\ 38 \\ 3 \\ 39 \\ 4 \\ \hline 1.5x3 \\ 2 \\ 38 \\ 3 \\ 39 \\ 4 \\ \hline 1.5x3 \\ 2 \\ 38 \\ 3 \\ 39 \\ 4 \\ \hline 1.5x3 \\ 2 \\ 38 \\ 3 \\ 39 \\ 4 \\ \hline 1.5x3 \\ 2 \\ 38 \\ 3 \\ 39 \\ 4 \\ \hline 1.5x3 \\ 2 \\ 38 \\ 3 \\ 39 \\ 4 \\ \hline 1.5x3 \\ 2 \\ 3 \\ 3 \\ 3 \\ 4 \\ \hline 1.5x3 \\ 2 \\ 3 \\ 3 \\ 3 \\ 4 \\ \hline 1.5x3 \\ 2 \\ 3 \\ 3 \\ 3 \\ 4 \\ \hline 1.5x3 \\ 2 \\ 3 \\ 3 \\ 3 \\ 3 \\ 4 \\ \hline 1 \\ 1.5x3 \\ 2 \\ 3 \\ 3 \\ 3 \\ 3 \\ 4 \\ \hline 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$ | 3x3=<br>#<br>40 5 4                       | 1-5-0<br>M<br>3x3 II 32<br>1 6 42 7  | T20HS 3x8 FP<br>x4= 3x4:<br>x 843 9   | 1.5x3 II<br>44 10 4   | <u>0-0</u>   | 3x3=<br>11  | 46                | 3x6=<br>12 4  | 17  | 0<br>1-6-12<br>3x4 = 1<br>13 48<br>20   | 0-1-8<br>1.5x3 =<br>.5x3 ≡<br>14<br>27 €<br>127 €<br>15           | Ŧ   |
|   | I   | ⊠ 2<br>3x6=   | 28 25 29 24  | - 23                                      | × 30<br>22   | 21 31<br>3x4=   | 20 3  | 32   | 19 33<br>1 5x3 u  | 18 34             | 17 35 1<br>15x3 II  | 16  | 36  | ⊠<br>3x6 =  |   |
|   |   |   | 373 = 0701   | -<br>20HS 3x8                             | FP   | 0,44  | 5,4 =   |  | 1.0.00 1  | 3x3 =             | 1.0.0 1   | 3x4 =   |   |   |   |
|   |   |   |  | 20110 000                                 | 4x6=   |   |   |  |   | 0.10 -            |   |   |   |   |   |
|   |   |   |  |   |  |   |   | 14-  | 4-12  |                   |   |   |   |   |   |
|   | I   | <u> </u>  | <u>6-11-12</u><br>6-11-12  |   |  | <u>12-4-12</u><br>5-5-0   | 13-4-1<br> <br>1-0-0  | 2  |   |                   | <u>21-5-</u><br>7-0-1   | <u>8</u><br>2   |   |   |   |
|   |   |   |  |   |  |   |   | 1-   | -0-0  |                   |   |   |   |   |   |
| 0   |   |   |  |   |  | 21-5-8  |   |  |   |                   |   |   |   |   |   |
| $\frac{\text{Scale} = 1.45.6}{\text{Plate Offsets ()}}$                       | K, Y): [20:0-1  | -8,Edge]  | ]  |   |  |   |   |  |   |                   |   |   |   |   |   |
| Loading   |   | (nsf)   | Spacing  | 2-0-0                                     |  | CSI   | DE  | FI   | -   | in (lo            | nc) l/defl  | b/ ا  |   |   | GRIP  |
| TCLL  |   | 40.0  | Plate Grip DOL   | 1.00                                      |  | TC  | 0.49 Ve   | t(Ll   | L) -0.  | 16 18-            | 19 >999   | 480   | MT20HS  | ;   | 187/143   |
| BCLL  |   | 10.0<br>0.0   | Rep Stress Incr  | 1.00<br>NO                                |  | BC<br>WB  | 0.96 Ver<br>0.40 Ho   | rt(C<br>rz(C   | CT) -0.2<br>CT) 0.0   | 22 18-<br>03      | 19 >787<br>15 n/a   | 360<br>n/a  | M120  |   | 244/190   |
| BCDL  |   | 5.0   | Code   | IRC2021                                   | /TPI2014   | Matrix-S  |   |  | ,   |                   |   |   | Weight: 1   | 109 lb  | FT = 20%F, 12%E   |
| LUMBER<br>TOP CHORD   | 2x4 SP No.2<br>(flat)   | 2(flat) *E>   | xcept* 8-14:2x4 SP S   | 2)<br>5 3)                                | All plates are<br>One H2.5A S<br>recommende  | MT20 plates unles<br>impson Strong-Tie<br>d to connect truss  | s otherwise<br>connectors<br>to bearing w   | ind<br>alls  | dicated.<br>s due to  | 6)                | Vert: 1<br>4th unbal<br>Increase  | 2=-4<br>lanced  <br>=1.00   | Dead: Lum   | ber Inci  | rease=1.00, Plate   |
| BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS | 2x4 SP No.2<br>(flat)<br>2x4 SP No.3<br>2x4 SP No.3<br>Structural w<br>6-0-0 oc pur<br>Rigid ceiling<br>bracing.<br>(size) 1!<br>Max Uplift 2!<br>Max Grav 1! | 2(flat) *E)<br>3(flat)<br>3(flat)<br>ood shea<br>rlins, exc<br>g directly<br>5=0-3-8,<br>6=-1 (LC<br>5=739 (L<br>6=333 (L | athing directly applied<br>cept end verticals.<br>applied or 6-0-0 oc<br>22=0-3-8, 26=0-3-8<br>-4)<br>.C 7), 22=1339 (LC 1)<br>C 3)  | 3S<br>4)<br>or<br>5)                      | UPLIFT at jt(s<br>does not cons<br>Load case(s)<br>18, 19, 20, 21<br>33, 34, 35, 36<br>48, 49, 50, 51<br>have been m<br>loads to verify<br>of this truss.<br>This truss has<br>load of 250.01<br>panels and at<br>Bottom Chore | c) 26. This connect<br>sider lateral forces.<br>1, 2, 4, 6, 7, 8, 10,<br>, 22, 23, 24, 25, 26<br>, 37, 38, 39, 40, 4'<br>, 52, 53, 54, 55, 56<br>dified. Building de<br>that they are correst<br>been designed fo<br>b live and 3.0lb de<br>all panel points all<br>, nonconcurrent w | ion is for up<br>11, 12, 14,<br>6, 27, 28, 29<br>1, 42, 43, 44<br>6, 57, 58, 59<br>signer musi<br>ect for the ir<br>r a moving<br>ad located a<br>ong the Top<br>ith any othe | lift (<br>15, 30<br>1, 4<br>1, 4<br>1, 4<br>1, 60<br>1, 15<br>1, 30<br>1, 30<br>1, 4<br>1, 4<br>1, 4<br>1, 4<br>1, 4<br>1, 4<br>1, 4<br>1, 4 | only and<br>, 16, 17,<br>0, 31, 32,<br>5, 46, 47,<br>0 has/<br>view<br>inded use<br>incentrated<br>all mid<br>hord and<br>ve loads. | 7)<br>8)          | Uniform I<br>Vert: 1<br>Concentr<br>Vert: 1<br>1st chase<br>Increase<br>Uniform I<br>Vert: 1<br>Concentr<br>Vert: 1<br>2nd chass<br>Increase<br>Uniform I | Loads (<br>5-26=-'<br>ated Lo<br>2=-4<br>e Dead<br>=1.00, F<br>Loads (<br>5-26=-'<br>ated Lo<br>2=-4<br>e Dead<br>=1.00, F<br>Loads ( | Ib/ft)<br>10, 1-6=-20<br>bads (Ib)<br>+ Floor Liv/<br>Plate Increa<br>Ib/ft)<br>10, 1-4=-10<br>bads (Ib)<br>I + Floor Liv<br>Plate Increa<br>Ib/ft) | ), 6-14=<br>e (unba<br>ase=1.0<br>)0, 4-6=<br>ve (unba<br>ase=1.0 | -100<br>lanced): Lumber<br>0<br>-20, 6-14=-100<br>alanced): Lumber<br>0 |
| FORCES  | (lb) - Maxim  | um Com  | pression/Maximum   | 6)  | Recommend<br>10-00-00 oc a   | 2x6 strongbacks, c<br>and fastened to eac   | on edge, spa<br>ch truss with   | aceo<br>1 3-1  | d at<br>10d   |                   | Vert: 1   | 5-26=-  | 10, 1-3=-20   | ), 3-14=  | -100  |
| TOP CHORD   | Tension<br>1-26=-261/1<br>2-3=-467/17<br>5-6=-21/802<br>9-10=-2307/<br>12-13=-162   | 4, 14-15<br>'1, 3-4=-4<br>2, 6-7=-2'<br>'0, 10-11<br>3/0, 13-1  | =-266/22, 1-2=0/0,<br>467/171, 4-5=-467/17<br>1/803, 7-9=-1135/0,<br>=-2307/0, 11-12=-230<br>4=-16/1   | 1, 7)<br><sub>13/0,</sub> <b>LO</b><br>1) | (0.131" X 3")<br>at their outer<br>CAUTION, Do<br><b>AD CASE(S)</b><br>Dead + Floo   | nails. Strongbacks<br>ends or restrained<br>o not erect truss ba<br>Standard<br>r Live (balanced):  | s to be attac<br>by other me<br>ackwards.<br>Lumber Inci  | hec<br>ean   | d to walls<br>is.<br>se=1.00,   | 10)               | Vert: 1<br>4th chase<br>Increase<br>Uniform I   | ated Lo<br>2=-4<br>e Dead<br>=1.00, F<br>_oads (l   | + Floor Liv<br>Plate Increa   | e (unba<br>ase=1.0  | lanced): Lumber   |
| BOT CHORD   | 25-26=-33/3<br>22-24=-436/<br>20-21=0/178<br>17-18=0/214  | 50, 24-2<br>50, 24-2<br>(196, 21-<br>34, 19-20<br>46, 16-17   | 5=-171/467,<br>22=-133/501,<br>)=0/2307, 18-19=0/23<br>7=0/2146, 15-16=0/10  | 07,<br>82                                 | Plate Increa<br>Uniform Loa<br>Vert: 15-2<br>Concentrate   | se=1.00<br>ds (lb/ft)<br>6=-10, 1-14=-100<br>d Loads (lb)   |   |  |   |                   |   | in the second   | ORTH  | CA  | ROWN'S "  |
| WEBS<br>NOTES   | 6-22=-285/1<br>11-19=-207/<br>2-25=-177/2<br>4-24=-272/4<br>12-16=-667/<br>12-18=-93/3<br>7-22=-1358/<br>9-20=0/803   | 3, 10-20<br>/120, 2-2<br>/27, 5-24<br>/, 13-15=<br>/26, 12-1<br>/17, 11-1<br>/0, 7-21=                                    | =-323/22,<br>6=-439/41, 5-22=-676<br>=0/559, 3-25=-162/10<br>-1268/0, 13-16=0/704<br>7=-125/230,<br>8=-224/295,<br>0/843, 9-21=-874/0,   | ()0, 2)<br>0,<br>,<br>4)                  | vert: 12=-<br>Dead: Lumb<br>Uniform Loa<br>Vert: 15-2<br>Concentrate<br>Vert: 12=-<br>2nd Dead +<br>Increase=1.1<br>Uniform Loa  | 4<br>er Increase=1.00,<br>ds (lb/ft)<br>6=-10, 1-14=-100<br>d Loads (lb)<br>4<br>Floor Live (unbala<br>00, Plate Increase<br>ds (lb/ft)   | Plate Increa<br>nced): Luml<br>=1.00  | oer  | =1.00   |                   |   | 1111111111111111  | CHN 2   | SEAI<br>2867<br>GINE  | 7<br>EBSC LIN   |
| 1) Unbalance<br>this design   | d floor live loa  | ads have  | been considered for  |   | Vert: 15-2<br>Concentrate  | :6=-10, 1-6=-20, 6-<br>d Loads (lb)   | 14=-100   |  |   |                   |   |   | in the  | Jul   | y 2,2025  |

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and RCSI Building Component Safety Information, available from the Structural Building Component Association (www.shearonponent Scom) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



| Joł  | )  | Truss  | Truss Typ | e   | Qty                       | Ply                 | Stonefie  | eld Rev 3-Elev 1-Floor   |                                |
|------|--|--|-----------|---|---------------------------|---------------------|-----------|--|--------------------------------|
| 24   | 12-1161-A  | 2F18   | Floor     |   | 4                         | 1                   | Job Ref   | erence (optional)  | 174582493                      |
| Stru | ctural, LLC, Thurmont, MD -  | 21788,   |           | Run: 25.20 S May 1  | 3 2025 Print: 2           | 25.2.0 S May        | 13 2025 1 | MiTek Industries, Inc. Mon Jun 30 14:  | .56:34 Page: 2                 |
| 11)  | Vert: 15-26=-10, 1-6=<br>Concentrated Loads (lb<br>Vert: 12=-4<br>5th chase Dead: Lumbe  | =-100, 6-10=-20, 10-14=-100<br>))<br>er Increase=1.00, Plate | 24)       | 10th Moving Load: Lumber Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 15-26=-10, 1-14=-20<br>Concentrated Loads (lb)                                   | PHmTrL6zuz<br>ase=1.25, F | oza?-RiC?P<br>Plate | 37)       | Vert: 15-26=-10, 1-14=-20<br>Concentrated Loads (lb)<br>Vert: 10=-253, 12=-4<br>23rd Moving Load: Lumber Inc<br>Jograpse=1 25                          | rrease=1.25, Plate             |
|      | Uniform Loads (lb/ft)<br>Vert: 15-26=-10, 1-4<br>Concentrated Loads (lb<br>Vert: 12=-4   | =-100, 4-6=-20, 6-14=-100<br>))                              | 25)       | Vert: 12=-4, 45=-253<br>11th Moving Load: Lumber Increase=1.25<br>Uniform Loads (lb/ft)   | ase=1.25, F               | Plate               |           | Uniform Loads (lb/ft)<br>Vert: 15-26=-10, 1-14=-20<br>Concentrated Loads (lb)<br>Vert: 11=-253, 12=-4  |                                |
| 12)  | 6th chase Dead: Lumbe<br>Increase=1.00<br>Uniform Loads (lb/ft)<br>Vert: 15-26=-10, 1-3=   | er Increase=1.00, Plate<br>=-20, 3-14=-100                   | 26)       | Vert: 15-26=-10, 1-14=-20<br>Concentrated Loads (lb)<br>Vert: 12=-4, 46=-253<br>12th Moving Load: Lumber Incre  | ase=1.25, F               | Plate               | 38)       | 24th Moving Load: Lumber Inc<br>Increase=1.25<br>Uniform Loads (Ib/ft)<br>Vert: 15-26=-10, 1-14=-20  | rease=1.25, Plate              |
| 14)  | Concentrated Loads (lb<br>Vert: 12=-4<br>8th chase Dead: Lumbe<br>Increase=1.00<br>Uniform Loads (lb/ft)                                       | )<br>er Increase=1.00, Plate                                 |           | Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 15-26=-10, 1-14=-20<br>Concentrated Loads (lb)<br>Vert: 12=-4, 47=-253                                    |                           |                     | 39)       | Concentrated Loads (lb)<br>Vert: 12=-257<br>25th Moving Load: Lumber Inc<br>Increase=1.25<br>Uniform Loads (lb/ft)                                     | rease=1.25, Plate              |
| 15)  | Vert: 15-26=-10, 1-6-<br>Concentrated Loads (lb<br>Vert: 12=-4<br>1st Moving Load: Lum<br>Increase=1.25  | 100, 6-10=-20, 10-14=-100<br>))<br>ber Increase=1.25, Plate  | 27)       | 13th Moving Load: Lumber Increa<br>Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 15-26=-10, 1-14=-20<br>Concentrated Loads (lb)                         | ase=1.25, F               | Plate               | 40)       | Vert: 15-26=-10, 1-14=-20<br>Concentrated Loads (lb)<br>Vert: 13=-253, 12=-4<br>26th Moving Load: Lumber Inc<br>Increase=1.25                          | rease=1.25, Plate              |
| 16)  | Unitorm Loads (lb/tt)<br>Vert: 15-26=-10, 1-14<br>Concentrated Loads (lb<br>Vert: 1=-253, 12=-4<br>2nd Moving Load: Lum<br>Increase=1.25       | 4=-20<br>))<br>iber Increase=1.25, Plate                     | 28)       | Vert: 12=-4, 48=-253<br>14th Moving Load: Lumber Increa<br>Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 15-26=-10, 1-14=-20<br>Concentrated Loads (lb) | ase=1.25, F               | Plate               | 41)       | Uniform Loads (lb/t)<br>Vert: 15-26=-10, 1-14=-20<br>Concentrated Loads (lb)<br>Vert: 12=-4, 28=-253<br>27th Moving Load: Lumber Inc<br>Increase=1.25  | rease=1.25, Plate              |
| 17)  | Uniform Loads (lb/ft)<br>Vert: 15-26=-10, 1-14<br>Concentrated Loads (lb<br>Vert: 12=-4, 37=-253<br>3rd Moving Load: Lum<br>Increase=1.25      | 4=-20<br>))<br>ber Increase=1.25, Plate                      | 29)       | Vert: 14=-253, 12=-4<br>15th Moving Load: Lumber Increa<br>Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 15-26=-10, 1-14=-20<br>Concentrated Loads (lb) | ase=1.25, F               | Plate               | 42)       | Uniform Loads (lb/ft)<br>Vert: 15-26=-10, 1-14=-20<br>Concentrated Loads (lb)<br>Vert: 12=-4, 29=-253<br>28th Moving Load: Lumber Inc<br>Increase=1.25 | rease=1.25, Plate              |
| 18)  | Unitorm Loads (lb/tt)<br>Vert: 15-26=-10, 1-14<br>Concentrated Loads (lb<br>Vert: 12=-4, 38=-253<br>4th Moving Load: Lumi<br>Increase=1.25     | 4=-20<br>))<br>ber Increase=1.25, Plate                      | 30)       | Vert: 2=-253, 12=-4<br>16th Moving Load: Lumber Increa<br>Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 15-26=-10, 1-14=-20<br>Concentrated Loads (lb)  | ase=1.25, F               | Plate               | 43)       | Uniform Loads (lb/t)<br>Vert: 15-26=-10, 1-14=-20<br>Concentrated Loads (lb)<br>Vert: 23=-253, 12=-4<br>29th Moving Load: Lumber Inc<br>Increase=1.25  | rease=1.25, Plate              |
| 19)  | Uniform Loads (lb/ft)<br>Vert: 15-26=-10, 1-14<br>Concentrated Loads (lb/ft)<br>Vert: 12=-4, 39=-253<br>5th Moving Load: Luml<br>Increase=1.25 | 4=-20<br>))<br>ber Increase=1.25, Plate                      | 31)       | Vert: 3=-253, 12=-4<br>17th Moving Load: Lumber Increa<br>Increase=1.25<br>Uniform Loads (Ib/ft)<br>Vert: 15-26=-10, 1-14=-20<br>Concentrated Loads (Ib)  | ase=1.25, F               | Plate               | 44)       | Uniform Loads (lb/ft)<br>Vert: 15-26=-10, 1-14=-20<br>Concentrated Loads (lb)<br>Vert: 12=-4, 30=-253<br>30th Moving Load: Lumber Inc<br>Increase=1.25 | rease=1.25, Plate              |
| 20)  | Uniform Loads (lb/ft)<br>Vert: 15-26=-10, 1-14<br>Concentrated Loads (lb<br>Vert: 12=-4, 40=-253<br>6th Moving Load: Lum                       | 4=-20<br>)<br>ber Increase=1.25. Plate                       | 32)       | Vert: 4=-253, 12=-4<br>18th Moving Load: Lumber Increa<br>Increase=1.25<br>Uniform Loads (Ib/ft)<br>Vert: 15-26=-10, 1-14=-20                             | ase=1.25, F               | Plate               | 45)       | Uniform Loads (lb/ft)<br>Vert: 15-26=-10, 1-14=-20<br>Concentrated Loads (lb)<br>Vert: 12=-4, 31=-253<br>31st Moving Load: Lumber Inc                  | rease=1.25. Plate              |
| ,    | Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 15-26=-10, 1-14<br>Concentrated Loads (lb  | 4=-20<br>)   | 33)       | Concentrated Loads (Ib)<br>Vert: 5=-253, 12=-4<br>19th Moving Load: Lumber Increase=1.25<br>Uniform Loads (Ib/ft)   | ase=1.25, F               | Plate               | ,         | Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 15-26=-10, 1-14=-20<br>Concentrated Loads (lb)<br>Vert: 124, 32253                                     |                                |
| 21)  | 7th Moving Load: Lumi<br>Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 15-26=-10, 1-14   | ber Increase=1.25, Plate                                     | 34)       | Vert: 15-26=-10, 1-14=-20<br>Concentrated Loads (Ib)<br>Vert: 6=-253, 12=-4<br>20th Moving Load: Lumber Incre   | ase=1.25, F               | Plate               | 46)       | Sand Moving Load: Lumber Ini<br>Increase=1.25<br>Uniform Loads (Ib/ft)<br>Vert: 15-26=-10, 1-14+20   | ARO                            |
| 22)  | Vert: 12=-4, 42=-253<br>8th Moving Load: Lumi<br>Increase=1.25<br>Uniform Loads (lb/ft)  | )<br>ber Increase=1.25, Plate                                |           | Uniform Loads (lb/ft)<br>Vert: 15-26=-10, 1-14=-20<br>Concentrated Loads (lb)<br>Vert: 12=-4. 7=-253  |                           |                     | 47)       | Vert: 12=4, 33=253<br>33rd Moving Load: Lamber Inc<br>Increase=1.25<br>Uniform Loads (Ib/ft)   | 517 125, Plate                 |
| 23)  | Vert: 15-26=-10, 1-14<br>Concentrated Loads (lb<br>Vert: 12=-4, 43=-253<br>9th Moving Load: Luml<br>Increase=1.25<br>Uniform Loads (lb/ft)     | 4=-20<br>)<br>ber Increase=1.25, Plate                       | 35)       | 21st Moving Load: Lumber Incre<br>Increase=1.25<br>Uniform Loads (lb/ft)<br>Vert: 15-26=-10, 1-14=-20<br>Concentrated Loads (lb)<br>Vert: 12=-4, 9=-253   | ase=1.25, F               | Plate               | 48)       | Vert: 15-26=10, 1-14=-20<br>Concentrated Loads (lb) 28(<br>Vert: 12=-4, 34=-253<br>34th Moving Load; Lumber Inc<br>Increase=1:25                       | AL<br>577<br>rease=1.25, Plate |
|      | Vert: 15-26=-10, 1-14<br>Concentrated Loads (lb<br>Vert: 12=-4, 44=-253  | 4=-20<br>))  | 36)       | 22nd Moving Load: Lumber Incr<br>Increase=1.25<br>Uniform Loads (lb/ft)   | ease=1.25,                | Plate               |           | Vert: 15-26=40, 749=-20<br>Concentrated Loads/(lb)<br>Vert: 12=-4, 35=-253   | July 2,2025                    |

NGINEERING B R) -1

818 Soundside Road Edenton, NC 27932

Continued on page 3 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, rerection 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)

|   | Job    |   | Truss                                 | Truss Type |  | Qty                         | Ply                        | Stonefield Rev 3-Elev 1-Floor  |               |
|---|--------|---|---------------------------------------|------------|--|-----------------------------|----------------------------|--|---------------|
|   | 241    | 2-1161-A  | 2F18                                  | Floor      |  | 4                           | 1                          | Job Reference (optional)   | 174582493     |
| : | Struct | tural, LLC, Thurmont, MD - 2                    | 21788,                                |            | Run: 25.20 S May 13<br>ID:SOQwJNx9kFg?SI | 2025 Print: 2<br>PHmTrL6zuz | 25.2.0 S May<br>oZ3?-RfC?P | 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:34<br>sB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f | Page: 3       |
| 2 | 19)    | 35th Moving Load: Lun                           | nber Increase=1.25, Plate             |            |  |                             |                            |  |               |
|   |        | Uniform Loads (lb/ft)                           |                                       |            |  |                             |                            |  |               |
|   |        | Vert: 15-26=-10, 1-14<br>Concentrated Loads (Ib | 4=-20                                 |            |  |                             |                            |  |               |
|   |        | Vert: 12=-4, 36=-253                            |                                       |            |  |                             |                            |  |               |
| 5 | 50)    | 36th Moving Load: Lun                           | nber Increase=1.25, Plate             |            |  |                             |                            |  |               |
|   |        | Uniform Loads (lb/ft)                           |                                       |            |  |                             |                            |  |               |
|   |        | Vert: 15-26=-10, 1-14                           | 4=-20                                 |            |  |                             |                            |  |               |
|   |        | Vert: 26=-253, 12=-4                            | )                                     |            |  |                             |                            |  |               |
| 5 | 51)    | 37th Moving Load: Lun                           | nber Increase=1.25, Plate             |            |  |                             |                            |  |               |
|   |        | Uniform Loads (lb/ft)                           |                                       |            |  |                             |                            |  |               |
|   |        | Vert: 15-26=-10, 1-14                           | 4=-20                                 |            |  |                             |                            |  |               |
|   |        | Vert: 25=-253, 12=-4                            | )                                     |            |  |                             |                            |  |               |
| 5 | 52)    | 38th Moving Load: Lun                           | nber Increase=1.25, Plate             |            |  |                             |                            |  |               |
|   |        | Uniform Loads (lb/ft)                           |                                       |            |  |                             |                            |  |               |
|   |        | Vert: 15-26=-10, 1-14                           | 4=-20                                 |            |  |                             |                            |  |               |
|   |        | Vert: 24=-253, 12=-4                            |                                       |            |  |                             |                            |  |               |
| 5 | 53)    | 39th Moving Load: Lun                           | nber Increase=1.25, Plate             |            |  |                             |                            |  |               |
|   |        | Uniform Loads (lb/ft)                           |                                       |            |  |                             |                            |  |               |
|   |        | Vert: 15-26=-10, 1-14<br>Concentrated Loads (lb | 4=-20<br>)                            |            |  |                             |                            |  |               |
|   | - 4)   | Vert: 22=-253, 12=-4                            | har barrage 1.05 Dista                |            |  |                             |                            |  |               |
| 5 | o4)    | Increase=1.25                                   | nder Increase=1.25, Plate             |            |  |                             |                            |  |               |
|   |        | Uniform Loads (lb/ft)                           | 1- 20                                 |            |  |                             |                            |  |               |
|   |        | Concentrated Loads (lb                          | )                                     |            |  |                             |                            |  |               |
| F | 5)     | Vert: 12=-4, 21=-253                            | aber Increase-1 25 Plate              |            |  |                             |                            |  |               |
|   | ,0)    | Increase=1.25                                   |                                       |            |  |                             |                            |  |               |
|   |        | Uniform Loads (lb/ft)<br>Vert: 15-26=-10, 1-14  | 4=-20                                 |            |  |                             |                            |  |               |
|   |        | Concentrated Loads (lb                          | )                                     |            |  |                             |                            |  |               |
| 5 | 56)    | Vert: 20=-253, 12=-4<br>42nd Moving Load: Lur   | mber Increase=1.25, Plate             |            |  |                             |                            |  |               |
|   | ,      | Increase=1.25                                   |                                       |            |  |                             |                            |  |               |
|   |        | Vert: 15-26=-10, 1-14                           | 4=-20                                 |            |  |                             |                            |  |               |
|   |        | Concentrated Loads (lb                          | )                                     |            |  |                             |                            |  |               |
| 5 | 57)    | 43rd Moving Load: Lun                           | nber Increase=1.25, Plate             |            |  |                             |                            |  |               |
|   |        | Increase=1.25                                   |                                       |            |  |                             |                            |  |               |
|   |        | Vert: 15-26=-10, 1-14                           | 4=-20                                 |            |  |                             |                            |  |               |
|   |        | Concentrated Loads (lb<br>Vert: 12=-4, 18=-253  | )                                     |            |  |                             |                            |  |               |
| 5 | 58)    | 44th Moving Load: Lun                           | nber Increase=1.25, Plate             |            |  |                             |                            |  |               |
|   |        | Uniform Loads (lb/ft)                           |                                       |            |  |                             |                            |  |               |
|   |        | Vert: 15-26=-10, 1-14                           | 4=-20                                 |            |  |                             |                            |  |               |
|   |        | Vert: 12=-4, 17=-253                            |                                       |            |  |                             |                            |  | 1111          |
| 5 | 59)    | 45th Moving Load: Lun                           | nber Increase=1.25, Plate             |            |  |                             |                            | TH CAR   | Olin          |
|   |        | Uniform Loads (lb/ft)                           |                                       |            |  |                             |                            | SSV SSV  | in the second |
|   |        | Vert: 15-26=-10, 1-14<br>Concentrated Loads (lb | 4=-20<br>)                            |            |  |                             |                            | E HAN  | 4: =          |
|   |        | Vert: 16=-253, 12=-4                            | , , , , , , , , , , , , , , , , , , , |            |  |                             |                            | SFAL   | 1 E           |
| 6 | 5O)    | 46th Moving Load: Lun<br>Increase=1.25          | nber Increase=1.25, Plate             |            |  |                             |                            | 28677  |               |
|   |        | Uniform Loads (lb/ft)                           | 1 - 20                                |            |  |                             |                            | = : 20077  | 1 3           |
|   |        | Concentrated Loads (Ib                          | +=-20<br>)                            |            |  |                             |                            | The English  | RINS          |
|   |        | Vert: 15=-253, 12=-4                            |                                       |            |  |                             |                            | OLAGINE  | NSTIN         |
|   |        |   |                                       |            |  |                             |                            | L. GA  | Linnin .      |
|   |        |   |                                       |            |  |                             |                            | - (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)  |               |

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 outlapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



July 2,2025

| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 2F22  | Floor      | 4   | 1   | Job Reference (optional)      | 174582494 |

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:35 Page: 1 ID:W9UOEeSxO6sub?Yn0rG8G?zBch7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale - 1:42 1

| 00010 - 1.42.1                 |                                       |                                 |                      |  |                               |                  |       |       |        |     |  |                   |
|--------------------------------|---------------------------------------|---------------------------------|----------------------|--|-------------------------------|------------------|-------|-------|--------|-----|--|-------------------|
| Loading                        | (nsf)                                 | Spacing                         | 2-0-0                | CSI  |                               | DEFL             | in    | (loc) | l/defl | L/d | PLATES   | GRIP              |
| TCU                            | 40 0                                  | Plate Grip DOI                  | 1 00                 | TC   | 0.83                          | Vert(LL)         | -0 15 | 13-14 | >999   | 480 | MT20   | 244/190           |
| TCDI                           | 10.0                                  | Lumber DOI                      | 1.00                 | BC   | 0.51                          | Vert(CT)         | -0.19 | 13-14 | >775   | 360 |  |                   |
| BCU                            | 0.0                                   | Ren Stress Incr                 | YES                  | WB   | 0.75                          | Horz(CT)         | 0.02  | 9     | n/a    | n/a | 1  |                   |
| BCDI                           | 5.0                                   | Code                            | IRC2021/TPI2         | 014 Matrix-S                                       | 0.10                          | 11012(01)        | 0.02  | 0     | n/ a   | n/a | Weight <sup>.</sup> 72 lb  | FT = 20%F 12%F    |
|                                | 0.0                                   | 0000                            |                      |  |                               |                  |       | -     |        |     | Wolght. 72 lb  | 11 - 20/01, 12/02 |
| LUMBER                         |                                       |                                 | 6) Rec               | ommend 2x6 strongba                                | cks, on edge                  | e, spaced at     |       |       |        |     |  |                   |
| TOP CHORD                      | 2x4 SP No.2(flat)                     |                                 | 10-0                 | 0-00 oc and fastened                               | to each truss                 | s with 3-10d     |       |       |        |     |  |                   |
| BOT CHORD                      | 2x4 SP SS(flat)                       |                                 | (0.1                 | 31" X 3") nails. Strong                            | backs to be                   | attached to v    | walls |       |        |     |  |                   |
| WEBS                           | 2x4 SP No.3(flat) *                   | Except* 9-7:2x4 SP N            | lo.2 at th<br>7) CAL | eir outer ends or restra<br>TION. Do not erect tru | ained by othe<br>uss backward | er means.<br>ds. |       |       |        |     |  |                   |
| OTHERS                         | 2x4 SP No.3(flat)                     |                                 | LOAD                 | ASE(S) Standard                                    |                               |                  |       |       |        |     |  |                   |
| BRACING                        |                                       |                                 |                      |  |                               |                  |       |       |        |     |  |                   |
| TOP CHORD                      | Structural wood sh                    | eathing directly applie         | ed or                |  |                               |                  |       |       |        |     |  |                   |
|                                | 5-8-12 oc purlins                     | except end verticals            |                      |  |                               |                  |       |       |        |     |  |                   |
| BOT CHORD                      | Rigid ceiling direct                  | y applied or 10-0-0 or          | с                    |  |                               |                  |       |       |        |     |  |                   |
|                                | bracing.                              |                                 |                      |  |                               |                  |       |       |        |     |  |                   |
| REACTIONS                      | (size) 9=1-3-8,                       | 10=1-3-8, 17= Mech              | anical               |  |                               |                  |       |       |        |     |  |                   |
|                                | Max Grav 9=322 (l<br>17=708           | _C 38), 10=509 (LC 1)<br>(LC 1) | ),                   |  |                               |                  |       |       |        |     |  |                   |
| FORCES                         | (lb) - Maximum Co<br>Tension          | mpression/Maximum               |                      |  |                               |                  |       |       |        |     |  |                   |
| TOP CHORD                      | 1-17=-249/84, 8-9=                    | -264/25, 1-2=0/0,               |                      |  |                               |                  |       |       |        |     |  |                   |
|                                | 2-3=-1126/0, 3-4=-                    | 2123/0, 4-5=-2123/0,            |                      |  |                               |                  |       |       |        |     |  |                   |
|                                | 5-6=-2009/0, 6-7=-                    | 1168/0, 7-8=-16/1               |                      |  |                               |                  |       |       |        |     |  |                   |
| BOT CHORD                      | 16-17=0/554, 15-1                     | 6=0/1708, 14-15=0/21            | 123,                 |  |                               |                  |       |       |        |     |  |                   |
|                                | 13-14=0/2123, 12-                     | 13=0/1796, 11-12=0/1            | 1796,                |  |                               |                  |       |       |        |     |  |                   |
|                                | 10-11=0/662, 9-10                     | =0/662                          | a /a                 |  |                               |                  |       |       |        |     |  |                   |
| WEBS                           | 4-15=-257/39, 5-14                    | =-174/149, 2-17=-90             | 0/0,                 |  |                               |                  |       |       |        |     |  | 11.               |
|                                | 2-16=0/745, 3-16=                     | -757/0, 3-15=-34/665,           | ,<br>1/0             |  |                               |                  |       |       |        |     | "I'LL CA   | DUL               |
|                                | 5-13=-292/221, 0-1                    | 3=-34/335, 7-19=-91             | 1/0,                 |  |                               |                  |       |       |        |     | ITH UM   | NOI               |
|                                | 9-19=-710/0, 7-11=<br>6-1225/269 10-1 | -0/039, 0-11=-001/0,<br> 9369/0 |                      |  |                               |                  |       |       |        | 5   | or files   | id Mile           |
| NOTES                          | 0 12= 20/200, 10                      | 3- 303/0                        |                      |  |                               |                  |       |       |        | 22  | -10-1  | 11: 7 1           |
| 1) Unbolonor                   | ad floor live loads bay               | ve been considered fo           | Nr.                  |  |                               |                  |       |       |        | 2   | 754 / J  | Mar E             |
| this design                    |                                       |                                 | 7                    |  |                               |                  |       |       | -      |     |  |                   |
| 2) Truss to b                  | e fully sheathed from                 | one face or securely            |                      |  |                               |                  |       |       |        | :   | SEA  | L : =             |
| braced ag                      | ainst lateral moveme                  | nt (i.e. diagonal web)          |                      |  |                               |                  |       |       | =      | :   | 286-   |                   |
| <ol> <li>Gable stud</li> </ol> | ds spaced at 1-4-0 oc                 | ).                              |                      |  |                               |                  |       |       | =      |     | 2007   | (/ i =            |
| 4) Refer to gi                 | irder(s) for truss to tru             | uss connections.                |                      |  |                               |                  |       |       | -      |     | ÷.   | 1 3               |
| 5) This truss                  | has been designed f                   | or a moving concentra           | ated                 |  |                               |                  |       |       |        | 2 . | 1. E.  | AINS              |
| load of 25                     | 0.0lb live and 3.0lb d                | ead located at all mid          |                      |  |                               |                  |       |       |        | 1.  | O, GIN'  | EFICATION         |
| panels and                     | d at all panel points a               | long the Top Chord a            | ind                  |  |                               |                  |       |       |        | 11  | MN   | IN IN             |
| Bottom Ch                      | nord, nonconcurrent v                 | vith any other live load        | ds.                  |  |                               |                  |       |       |        |     | 11, L.G.   | AL                |
|                                |                                       |                                 |                      |  |                               |                  |       |       |        |     | in the second se | mm.               |

July 2,2025

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 BCEL Building Component Schut Information, purplication component component durate propagate component component to the prevent collapse with possible for the Studyer Building Component Advance and Adva and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



| Job         | Truss | Truss Type            | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|-----------------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 2FGE4 | Floor Supported Gable | 4   | 1   | Job Reference (optional)      | 174582495 |

Structural LLC Thurmont MD - 21788

TCLL

TCDI

BCLL

BCDL

1)

2)

3)

#### Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:36 ID:zq3KzYAF289p2Z?I7ihhrYzBcUZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



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 bilding 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)



| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 2F23  | Floor      | 20  | 1   | Job Reference (optional)      | 174582496 |

# Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:35 Page: 1 ID:FvieE2IUp9EKMNhFOILrN0zoZ?y-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



13-2-0

### Scale = 1:39.8

Plate Offsets (X, Y): [7:0-1-8,Edge]

| Loading | (psf) | Spacing         | 2-0-0           | CSI      |      | DEFL     | in    | (loc)              | l/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|----------|------|----------|-------|--------------------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | тс       | 0.77 | Vert(LL) | -0.13 | 11-12 <sup>́</sup> | >999   | 480 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC       | 0.48 | Vert(CT) | -0.17 | 11-12              | >901   | 360 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB       | 0.34 | Horz(CT) | 0.03  | 9                  | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | IRC2021/TPI2014 | Matrix-S |      |          |       |                    |        |     | Weight: 67 lb | FT = 20%F, 12%E |

## LUMBER

| TOP CHORD | 2x4 SP No.2(flat)   |
|-----------|---|
| BOT CHORD | 2x4 SP SS(flat)   |
| WEBS      | 2x4 SP No.3(flat)   |
| OTHERS    | 2x4 SP No.3(flat)   |
| BRACING   |   |
| TOP CHORD | Structural wood sheathing directly applied or<br>6-0-0 oc purlins, except end verticals   |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.  |
| REACTIONS | (size) 9=0-3-8, 15=0-3-8  |
|           | Max Grav 9=704 (LC 1), 15=704 (LC 1)  |
| FORCES    | (lb) - Maximum Compression/Maximum<br>Tension   |
| TOP CHORD | 1-15=-255/56, 8-9=-271/0, 1-2=-15/3,<br>2-3=-1266/0, 3-4=-2155/0, 4-5=-2155/0,  |
| BOT CHORD | 5-6=-19/1/0, 6-7=-11/1/0, 7-8=-16/0<br>14-15=0/721, 13-14=0/1806, 12-13=0/2155,<br>11-12=0/2155, 10-11=0/1715, 9-10=0/1171                                  |
| WEBS      | 4-13=-240/55, 5-12=-152/155, 2-15=-991/0,<br>2-14=0/709, 3-14=-702/0, 3-13=-77/613,<br>6-10=-695/0, 6-11=-12/375, 5-11=-409/214,<br>7-10=0/450, 7-9=-1314/0 |

## NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



July 2,2025

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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 2F15  | Floor      | 4   | 1   | Job Reference (optional)      | 174582497 |

# Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:33 ID:83FjkHEYIAMs\_KnRLPxXv\_z73ow-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



1.5x3 u



| Scale = 1:25.1 |       |                 |                 |          |      |          |       |       |        |     |               |                 |  |
|----------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|-----------------|--|
| oading         | (psf) | Spacing         | 2-0-0           | CSI      |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |  |
| <b>TCLL</b>    | 40.0  | Plate Grip DOL  | 1.00            | TC       | 0.44 | Vert(LL) | -0.02 | 5-6   | >999   | 480 | MT20          | 244/190         |  |
| FCDL           | 10.0  | Lumber DOL      | 1.00            | BC       | 0.46 | Vert(CT) | -0.02 | 5-6   | >999   | 360 |               |                 |  |
| BCLL           | 0.0   | Rep Stress Incr | NO              | WB       | 0.08 | Horz(CT) | 0.00  | 5     | n/a    | n/a |               |                 |  |
| BCDL           | 5.0   | Code            | IRC2021/TPI2014 | Matrix-S |      |          |       |       |        |     | Weight: 24 lb | FT = 20%F, 12%E |  |
| UMBER          |       |                 |                 |          |      |          |       |       |        |     |               |                 |  |

#### 

E

| TOP CHORD | 2x4 SP N   | o.2(flat)                            |
|-----------|------------|--------------------------------------|
| BOT CHORD | 2x4 SP N   | o.2(flat)                            |
| WEBS      | 2x4 SP N   | o.3(flat)                            |
| BRACING   |            |                                      |
| TOP CHORD | Structura  | I wood sheathing directly applied or |
|           | 3-8-0 oc   | ourlins, except end verticals.       |
| BOT CHORD | Rigid ceil | ing directly applied or 10-0-0 oc    |
|           | bracing.   |                                      |
| REACTIONS | (size)     | 5= Mechanical, 8=0-3-8               |
|           | Max Grav   | 5=304 (LC 11), 8=304 (LC 7)          |
| FORCES    | (lb) - Max | imum Compression/Maximum             |
|           | Tension    |                                      |
| TOP CHORD | 1-8=-265/  | /2, 4-5=-265/2, 1-2=0/0, 2-3=-217/0, |

|           | 3-4=0/0                              |
|-----------|--------------------------------------|
| BOT CHORD | 7-8=0/217, 6-7=0/217, 5-6=0/217      |
| WEBS      | 3-5=-268/0, 2-8=-268/0, 2-7=-82/198, |
|           | 3-6=-82/198                          |

#### NOTES

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

2) Refer to girder(s) for truss to truss connections.

3) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



July 2,2025

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 Scitut Information**. Building from the Structure Building Component Advance interpretation and properting and properting and properting the properties of the properties of the stability of the sign of the sign of the stability of the sign of the sign of the sign of the stability of the sign of the sign of the sign of the stability of the sign of the sign of the stability of the sign of th and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)


| Job         | Truss | Truss Type   | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|--------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 2FGR3 | Floor Girder | 3   | 1   | Job Reference (optional)      | 174582498 |

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56.37 ID:68TfONaKUvXeA0nMYuBOCdz72LW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:27.2

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

| Loading                        | (psf)                       | Spacing                | 2-0-0   |              | CSI                 |        | DEFL         | in    | (loc) | l/defl | L/d | PLATES        | GRIP             |
|--------------------------------|-----------------------------|------------------------|---------|--------------|---------------------|--------|--------------|-------|-------|--------|-----|---------------|------------------|
| TCLL                           | 40.0                        | Plate Grip DOL         | 1.00    |              | TC                  | 0.61   | Vert(LL)     | -0.08 | 9-10  | >966   | 480 | MT20          | 244/190          |
| TCDL                           | 10.0                        | Lumber DOL             | 1.00    |              | BC                  | 0.74   | Vert(CT)     | -0.10 | 9-10  | >741   | 360 |               |                  |
| BCLL                           | 0.0                         | Rep Stress Incr        | NO      |              | WB                  | 0.72   | Horz(CT)     | 0.01  | 7     | n/a    | n/a |               |                  |
| BCDL                           | 5.0                         | Code                   | IRC2021 | /TPI2014     | Matrix-S            |        |              |       |       |        |     | Weight: 40 lb | FT = 20%F, 12%E  |
|                                |                             |                        | 1)      | Dead + Flor  | or Live (balanced): | Lumbe  | r Increase-1 | 00    |       |        |     |               |                  |
|                                | 2v4 SP SS(flat)             |                        | 1)      | Plate Increa | se=1.00             | Lumber | morease=1.   | 00,   |       |        |     |               |                  |
| BOT CHORD                      | 2x4 SP SS(flat)             |                        |         | Uniform Loa  | ads (lb/ft)         |        |              |       |       |        |     |               |                  |
| WERS                           | 2x4 SP No 3(flat)           |                        |         | Vert 7-1     | l=-10 1-3=-100 3-   | 6=-546 |              |       |       |        |     |               |                  |
| BRACING                        | 2,4 01 10.0(100)            |                        |         | Concentrate  | ed Loads (lb)       | 0 0.0  |              |       |       |        |     |               |                  |
|                                | Structural wood she         | athing directly applie | d or    | Vert: 3=-    | 500                 |        |              |       |       |        |     |               |                  |
|                                |                             | cent and varticals     |         |              |                     |        |              |       |       |        |     |               |                  |
| BOT CHORD                      | Rigid ceiling directly      | applied or 10-0-0 or   |         |              |                     |        |              |       |       |        |     |               |                  |
| bol offorte                    | bracing.                    |                        | •       |              |                     |        |              |       |       |        |     |               |                  |
| REACTIONS                      | (size) 7=0-3-8.1            | 1=0-3-8                |         |              |                     |        |              |       |       |        |     |               |                  |
|                                | Max Grav 7=1706 (L          | C 13), 11=1132 (LC     | ; 7)    |              |                     |        |              |       |       |        |     |               |                  |
| FORCES                         | (lb) - Maximum Com          | pression/Maximum       | ,       |              |                     |        |              |       |       |        |     |               |                  |
|                                | Tension                     |                        |         |              |                     |        |              |       |       |        |     |               |                  |
| TOP CHORD                      | 1-11=-279/0, 6-7=-46        | 65/20, 1-2=0/0,        |         |              |                     |        |              |       |       |        |     |               |                  |
|                                | 2-3=-2506/0, 3-4=-24        | 497/0, 4-5=-2103/0,    |         |              |                     |        |              |       |       |        |     |               |                  |
|                                | 5-6=0/0                     |                        |         |              |                     |        |              |       |       |        |     |               |                  |
| BOT CHORD                      | 10-11=0/1383, 9-10=         | =0/2103, 8-9=0/2103    | 3,      |              |                     |        |              |       |       |        |     |               |                  |
|                                | 7-8=0/2103                  |                        |         |              |                     |        |              |       |       |        |     |               |                  |
| WEBS                           | 3-10=-1305/0, 2-11=         | -1735/0, 2-10=0/161    | 13,     |              |                     |        |              |       |       |        |     |               |                  |
|                                | 4-10=-187/673, 5-7=         | -2598/0, 4-9=-530/0    | ,       |              |                     |        |              |       |       |        |     |               |                  |
| NOTES                          | 5-8=0/571                   |                        |         |              |                     |        |              |       |       |        |     |               |                  |
| 1) Unhalance                   | d floor live loade bave     | been considered fo     |         |              |                     |        |              |       |       |        |     |               | 1111             |
| this design                    |                             | been considered to     | I       |              |                     |        |              |       |       |        |     | TH UA         | Roile            |
| 2) Load case                   | ı.<br>(s) 1 has/have been m | odified Building       |         |              |                     |        |              |       |       |        | N   | A             | 1. THIN'S        |
| designer n                     | ust review loads to ve      | rify that they are cor | rect    |              |                     |        |              |       |       |        | 22  | · APA         | Di. St.          |
| for the inte                   | nded use of this truss.     | ,,                     |         |              |                     |        |              |       |       |        |     | 4h M          | 1. 2             |
| <ol> <li>This truss</li> </ol> | has been designed for       | a moving concentra     | ated    |              |                     |        |              |       |       | -      |     | : Y           | - 11 - 1         |
| load of 250                    | 0.0lb live and 3.0lb dea    | ad located at all mid  |         |              |                     |        |              |       |       | = =    |     | SEA           | 1 <del>1</del> E |
| panels and                     | d at all panel points alo   | ng the Top Chord a     | nd      |              |                     |        |              |       |       |        | - 1 | 0007          | T. 1 E .         |
| Bottom Ch                      | ord, nonconcurrent wit      | th any other live load | ds.     |              |                     |        |              |       |       | 1      |     | 286/          | 1 : =            |
| <ol><li>Recomme</li></ol>      | nd 2x6 strongbacks, or      | n edge, spaced at      |         |              |                     |        |              |       |       | -      |     | •             | 1 2              |
| 10-00-00 c                     | oc and fastened to eac      | h truss with 3-10d     |         |              |                     |        |              |       |       |        | 2   | N             | 0123             |
| (0.131" X 3                    | 3") nails. Strongbacks      | to be attached to wa   | alis    |              |                     |        |              |       |       |        | 20  | O. NGINE      | Ent              |
|                                | Do not croct truce be       | by outer means.        |         |              |                     |        |              |       |       |        | 11  | YA,           | INS IN           |
| LOAD CASE                      |                             | unwalus.               |         |              |                     |        |              |       |       |        |     | L.G.          | AL               |
| LUAD CASE(                     | Sianuaru                    |                        |         |              |                     |        |              |       |       |        |     | 1111111       | 11111            |

July 2,2025

Page: 1

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 **ANSUTP11 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)



| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 2F12  | Floor      | 1   | 1   | Job Reference (optional)      | 174582499 |

Scale = 1:36.8



Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:32

Page: 1

|                               |                               |                        |                 | -                            |          |           |       |       |        |      |               |                   |
|-------------------------------|-------------------------------|------------------------|-----------------|------------------------------|----------|-----------|-------|-------|--------|------|---------------|-------------------|
| Loading                       | (psf)                         | Spacing                | 2-0-0           | csi                          |          | DEFL      | in    | (loc) | l/defl | l /d | PLATES        | GRIP              |
| TCU                           | 40.0                          | Plate Grin DOI         | 1 00            | TC                           | 0.69     | Vert(LL)  | -0.21 | 13-14 | >858   | 480  | MT20          | 244/190           |
| TCDI                          | 10.0                          | Lumber DOI             | 1.00            | BC                           | 0.55     | Vert(CT)  | -0.29 | 13-14 | >628   | 360  |               | 2.1,100           |
| BCU                           | 0.0                           | Ren Stress Incr        | YES             | WB                           | 0.50     | Horz(CT)  | 0.04  | 11    | n/a    | n/a  |               |                   |
| BCDI                          | 5.0                           | Code                   | IRC2021/TPI2014 | Matrix-S                     | 0.00     | 11012(01) | 0.01  |       | Π/α    | 11/0 | Weight: 80 lb | FT = 20%F 12%F    |
|                               | 0.0                           | 0000                   |                 | Matrix 0                     |          |           | -     |       |        |      | Wolght. 00 lb | 11 - 20/01, 12/02 |
| LUMBER                        |                               |                        | 5) CAUTION,     | Do not erect truss           | backward | ls.       |       |       |        |      |               |                   |
| TOP CHORE                     | D 2x4 SP No.2(flat)           |                        | LOAD CASE(S     | <ol> <li>Standard</li> </ol> |          |           |       |       |        |      |               |                   |
| BOT CHORE                     | D 2x4 SP SS(flat)             |                        |                 |                              |          |           |       |       |        |      |               |                   |
| WEBS                          | 2x4 SP No.3(flat)             |                        |                 |                              |          |           |       |       |        |      |               |                   |
| OTHERS                        | 2x4 SP No.3(flat)             |                        |                 |                              |          |           |       |       |        |      |               |                   |
| BRACING                       |                               |                        |                 |                              |          |           |       |       |        |      |               |                   |
| TOP CHORE                     | O Structural wood she         | athing directly applie | ed or           |                              |          |           |       |       |        |      |               |                   |
|                               | 6-0-0 oc purlins, ex          | cept end verticals.    |                 |                              |          |           |       |       |        |      |               |                   |
| BOT CHORE                     | D Rigid ceiling directly      | applied or 10-0-0 or   | 0               |                              |          |           |       |       |        |      |               |                   |
|                               | bracing.                      |                        |                 |                              |          |           |       |       |        |      |               |                   |
| REACTIONS                     | s (size) 11= Mech             | anical, 18=0-3-8       |                 |                              |          |           |       |       |        |      |               |                   |
|                               | Max Grav 11=839 (L            | _C 1), 18=833 (LC 1    | )               |                              |          |           |       |       |        |      |               |                   |
| FORCES                        | (lb) - Maximum Com<br>Tension | pression/Maximum       |                 |                              |          |           |       |       |        |      |               |                   |
| TOP CHORE                     | ) 1-18=-266/15, 10-11         | =-259/23. 1-2=-16/1    |                 |                              |          |           |       |       |        |      |               |                   |
|                               | 2-3=-1961/0, 3-4=-2           | 989/0, 4-5=-2989/0,    | ,               |                              |          |           |       |       |        |      |               |                   |
|                               | 5-6=-2989/0, 6-7=-2           | 631/0, 7-8=-1557/0,    |                 |                              |          |           |       |       |        |      |               |                   |
|                               | 8-9=-1557/0, 9-10=0           | 0/0                    |                 |                              |          |           |       |       |        |      |               |                   |
| BOT CHORE                     | 0 17-18=0/1358, 16-17         | 7=0/1358, 15-16=0/2    | 2554,           |                              |          |           |       |       |        |      |               |                   |
|                               | 14-15=0/2989, 13-14           | 4=0/2959, 12-13=0/2    | 2239,           |                              |          |           |       |       |        |      |               |                   |
|                               | 11-12=0/732                   | 400/400 0 40 0/7       |                 |                              |          |           |       |       |        |      |               |                   |
| WEBS                          | 4-15=-317/55, 5-14=           | -189/132, 2-16=0/7     | 70,             |                              |          |           |       |       |        |      | mun           | 1111,             |
|                               | 3-10=-772/0, 3-15=-           | 13/131, 2-17=-03/20    | 57<br>57        |                              |          |           |       |       |        |      | WAH CA        | Rollin            |
|                               | 8-12-267/51 7-12-             |                        | 54,             |                              |          |           |       |       |        | S    | R             |                   |
|                               | 6-13=-427/46 6-14=            | 285/400                | 1               |                              |          |           |       |       |        | 5.   | O' SS         | KAN .             |
| NOTES                         | 0 10- 121/10, 0 11-           | 200/100                |                 |                              |          |           |       |       |        | 35   |               | TA: Y S           |
| 1) Unhalan                    | ced floor live loads have     | been considered fo     | r               |                              |          |           |       |       | 2      |      | P/ VY         |                   |
| this desi                     |                               |                        |                 |                              |          |           |       |       | =      | :    | SEA           | 1 1 2             |
| 2) Refer to                   | airder(s) for truss to trus   | s connections.         |                 |                              |          |           |       |       | =      | :    | JLA           | - : :             |
| <ol> <li>This trus</li> </ol> | s has been designed for       | r a moving concentra   | ated            |                              |          |           |       |       | =      |      | 2867          | 77 : -            |
| Í load of 2                   | 50.0lb live and 3.0lb dea     | ad located at all mid  |                 |                              |          |           |       |       |        |      |               | 1 5               |
| panels a                      | nd at all panel points ald    | ong the Top Chord a    | nd              |                              |          |           |       |       |        | 1    | ·             | - 1. S            |
| Bottom (                      | Chord, nonconcurrent wi       | th any other live load | ds.             |                              |          |           |       |       |        | 24   | 6 SNGINI      | EENILS            |
| 4) Recomm                     | end 2x6 strongbacks, o        | n edge, spaced at      |                 |                              |          |           |       |       |        | 11   | 'AN GIN       | SI                |
| 10-00-00                      | ) oc and fastened to eac      | h truss with 3-10d     | - 11 -          |                              |          |           |       |       |        |      | VIG           | ALININ            |
| (0.131" )<br>at their c       | (3) nails. Strongbacks        | to be attached to w    | alis            |                              |          |           |       |       |        |      | 111111        | unut .            |
| at their 0                    | ator chus or resuldirieu i    | by other means.        |                 |                              |          |           |       |       |        |      |               |                   |

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 BCEL Building Component Science Use Component Categories (http://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 | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1F6   | Floor      | 4   | 1   | Job Reference (optional)      | 174582434 |



Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:23

1-0-0 15-10-0

| Scale = 1:38.4   | -                             |
|--|-------------------------------|
| Loading (psf) Spacing 1-4-0 CSI DEFL in (loc) I/defl L/d   | PLATES GRIP                   |
| TCLL         40.0         Plate Grip DOL         1.00         TC         0.58         Vert(LL)         -0.16         16-17         >999         480  | MT20 244/190                  |
| TCDL         10.0         Lumber DOL         1.00         BC         0.94         Vert(CT)         -0.19         16-17         >830         360  | -                             |
| BCLL         0.0         Rep Stress Incr         YES         WB         0.30         Horz(CT)         0.02         12         n/a         n/a  |                               |
| BCDL 5.0 Code IRC2021/TPI2014 Matrix-S   | Weight: 78 lb FT = 20%F, 12%E |
| LUMBER 4) Recommend 2x6 strongbacks, on edge, spaced at  |                               |
| TOP CHORD 2x4 SP No.2(flat) 10-00-00 oc and fastened to each truss with 3-10d  |                               |
| BOT CHORD 2x4 SP No.2(flat) (0.131" X 3") nails. Strongbacks to be attached to walls   |                               |
| WEBS 2x4 SP No.3(flat) at their outer ends or restrained by other means.   |                               |
| OTHERS 2x4 SP No.3(flat) 5) CAUTION, Do not erect truss backwards.   |                               |
| BRACING LOAD CASE(S) Standard  |                               |
| TOP CHORD Structural wood sheathing directly applied or  |                               |
| 6-0-0 oc purlins, except end verticals.  |                               |
| BOT CHORD Rigid ceiling directly applied or 2-2-0 oc   |                               |
| bracing.   |                               |
| <b>REACTIONS</b> (size) 11=0-3-8, 12=0-4-8, 18=0-3-8   |                               |
| Max Uplift 11=-337 (LC 35)   |                               |
| Max Grav 11=180 (LC 46), 12=999 (LC 1),  |                               |
| 18=403 (LC 3)  |                               |
| FORCES (Ib) - Maximum Compression/Maximum  |                               |
|  |                               |
| TOP CHORD 1-18=-259/36, 10-11=-261/8, 1-2=-18/3,   |                               |
| 2 - 3 = -91/2/10, 3 - 4 = -1/240/10, 4 - 5 = -1/240/10, 5 = -1/2 |                               |
| 5-6=-1240/0, 6-7=-47/1/0, 7-6=0/1030,  |                               |
|  |                               |
| 1/ 15_0(030, 1017=0/113), 1310=0/1240,<br>1/ 15_0(032) 12 14_270/230   |                               |
| 12-130322, 13-14512/25, 12-14512/26, 12-1450  |                               |
| WERS 4.16-150/124, 5-15-231/51 8-12-274/26   | MATTIN                        |
| 9-1142/64 9-12656/0 2-18695/0  |                               |
| 2-17=0/487 3-17=-365/33 3-16=-241/255  | N'AL CARO                     |
|  | TH CARO                       |
| 7-14=0/690, 6-14=-552/0, 6-15=-69/483.   | OR CESSION                    |

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
- 3) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.



July 2,2025

Page: 1





818 Soundside Road

Edenton, NC 27932

| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1F7   | Floor      | 12  | 1   | Job Reference (optional)      | 174582435 |



Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:23

7-4-12



15-10-4

1-0-0

| Scale = | 1:34.4 |
|---------|--------|

BOT CHORD

TOP CHORD

BOT CHORD

REACTIONS (size)

WEBS

OTHERS BRACING

Loading TCLL TCDL BCLL BCDL LUMBER TOP CHORD

| 1.4 |  |                 |                 |          |      |          |       |       |        |     |               |                 |
|-----|--|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| (   | (psf)  | Spacing         | 1-4-0           | CSI      |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |
|     | 40.0   | Plate Grip DOL  | 1.00            | тс       | 0.58 | Vert(LL) | -0.16 | 16-17 | >996   | 480 | MT20          | 244/190         |
|     | 10.0   | Lumber DOL      | 1.00            | BC       | 0.94 | Vert(CT) | -0.19 | 16-17 | >826   | 360 |               |                 |
|     | 0.0  | Rep Stress Incr | YES             | WB       | 0.30 | Horz(CT) | 0.02  | 12    | n/a    | n/a |               |                 |
|     | 5.0  | Code            | IRC2021/TPI2014 | Matrix-S |      |          |       |       |        |     | Weight: 79 lb | FT = 20%F, 12%E |
|     | 4) Recommend 2v6 strongbacks on edge spaced at |                 |                 |          |      |          |       |       |        |     |               |                 |

4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d

(0.131" X 3") nails. Strongbacks to be attached to walls

at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

|           | (0.20)     |                                    |
|-----------|------------|------------------------------------|
|           | Max Uplift | 11=-337 (LC 33)                    |
|           | Max Grav   | 11=180 (LC 44), 12=1001 (LC 1),    |
|           |            | 18=408 (LC 3)                      |
| FORCES    | (lb) - Max | imum Compression/Maximum           |
|           | Tension    |                                    |
| TOP CHORD | 1-18=-25   | 9/32, 10-11=-261/8, 1-2=0/0,       |
|           | 2-3=-920/  | /0, 3-4=-1244/0, 4-5=-1244/0,      |
|           | 5-6=-124   | 4/0, 6-7=-472/0, 7-8=0/1031,       |
|           | 8-9=0/103  | 30, 9-10=-19/1                     |
| BOT CHORD | 17-18=0/5  | 597, 16-17=0/1197, 15-16=0/1244,   |
|           | 14-15=0/9  | 924, 13-14=-372/229,               |
|           | 12-13=-3   | 72/229, 11-12=-545/36              |
| WEBS      | 4-16=-150  | 0/115, 5-15=-231/50, 8-12=-274/26, |
|           | 0 11 - 42  | 646 0 12- 657/0 7 14-0/600         |

2x4 SP No.2(flat)

2x4 SP No.2(flat)

2x4 SP No.3(flat)

2x4 SP No.3(flat)

bracing.

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

11=0-3-8, 12=0-4-8, 18=0-4-8

Rigid ceiling directly applied or 2-2-0 oc

6-14=-553/0, 6-15=-68/485, 7-13=-76/249, 7-12=-1116/0, 2-18=-705/0, 2-17=0/485, 3-17=-364/35, 3-16=-244/254

# NOTES

- Unbalanced floor live loads have been considered for this design.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
- 3) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.



July 2,2025

Page: 1

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)



Edenton, NC 27932

| Job   |  |  | Truss   |   |  | Truss Typ                         | be   |   |   | Qt  | y   | Ply  | Stor         | nefield F      | Rev 3-Elev   | v 1-F      | loor           |          |                        |
|---|--|--|---|---|--|-----------------------------------|--|---|---|---|---|--|--------------|----------------|--------------|------------|----------------|----------|------------------------|
| 241   | 2-1161-/   | 4  | 1F7A  |   |  | Floor                             |  |   |   | 12  |   | 1  | Job          | Referer        | nce (optio   | nal)       |                |          | 174582436              |
| Struc   | tural, LLC, 1  | Fhurmont, MD -   | 21788,  |   |  |                                   |  | Run: 2  | 5.20 S May  | 13 202  | 5 Print: 2  | 5.2.0 S M  | lay 13 20    | 25 MiTel       | k Industries | s, Inc.    | . Mon Jun 3    | 30 14:5  | i6:23 Page: 1          |
|   |  |  |   |   |  |                                   |  | ID:3w8  | 3A?iDT2vEN  | 1KwT_R  | Cl4sczGv  | vE3-RfC?   | PsB70H?      | lq3NSgP        | qnL8w3ulT    | XbG        | KWrCDoi7、      | J4zJC?   | f                      |
|   |  |  | 1-  | 3-4   1-3-0   | -  |                                   |  | 2-0-0   | -   |   |   |  | 1            | -8-0           | 1-0-         | 8          | 0-             | -1-8<br> |                        |
|   |  |  | 3x3 II  | 3x3 =   |  | 3x3 =                             | 1 5x3 u  |   | 1.5x3 🛛   | 3x3 =   |   |  | 3x6 =        |                | 3x3 #        | 3x4        | <b>↓=</b> 1.   | .5x3 II  |                        |
|   |  |  | 1 2   | 7 2   | 28   | 3 2                               | 29 4   | 30  | 5 31  | 6   | 32  |  | 7            | 33             | 8 34         | 9          | 35 1           | 0        | Ω.                     |
|   |  | 1-0-0  | *<br>18   | 2   |  | 2                                 |  |   |   |   |   |  |              |                |              | Þ          |                |          | -0<br>                 |
|   |  |  | ×.  | 20  | 17   | 21                                | 16   | 22  | 15  | 23  | 14  | 24   | 13           | 25             | Ř.           | 26         | ;              | ₹''      |                        |
|   |  |  | 3x6 =   |   | 3x3 =  |                                   | 3x3 =  |   | 3x3 =   |   | 3x4   | ·= .   | 1.5x3 u      |                | 12           |            | 3>             | x6 =     |                        |
|   |  |  |   |   |  |                                   |  |   |   |   |   |  |              | M              | T20HS 3x8    | 3 =        | 1              | .5x3 =   |                        |
|   |  |  |   |   |  |                                   |  | 7-4-12  | 2   |   |   |  |              |                |              |            |                |          |                        |
|   |  |  |   |   |  |                                   | 6-4-1  | 12  |   |   |   |  |              |                |              |            |                |          |                        |
|   |  |  |   | 5-  | 4-12   |                                   |  |   | -   |   | 13-   | -2-4   |              |                |              | 15-1       | 0-4            | -        |                        |
|   |  |  | I   | 5-  | 4-12   |                                   | 1-0-   | 0   | 1   |   | 5-  | 9-0  |              |                |              | 2-6        | 5-0            |          |                        |
|   |  |  |   |   |  |                                   |  | 1-0-0   |   |   |   |  |              |                |              |            |                |          |                        |
|   |  |  |   |   |  |                                   |  | 100   | 15-10-4   |   |   |  |              |                |              |            |                | _        |                        |
| Scal  | e = 1:34.4   |  |   |   |  |                                   |  |   |   |   |   |  |              |                |              |            |                | I        |                        |
| Load<br>TCLI  | ling   |  | (psf)<br>40.0   | Spacing<br>Plate Grip D   | OL   | 1-4-0<br>1.00                     |  | CSI<br>TC   |   | 0.70  | DEFL<br>Vert(L  | L) -   | in<br>0.13 1 | (loc)<br>16-17 | l/defl       | L/d<br>180 | PLATES<br>MT20 | S        | <b>GRIP</b><br>244/190 |
| TCD   | _  |  | 10.0  | Lumber DOL  |  | 1.00                              |  | BC  |   | 0.52  | Vert(C  | T) -   | 0.19 1       | 16-17          | >821 3       | 360<br>p/a | MT20HS         | S        | 187/143                |
| BCD   | -<br>L   |  | 5.0   | Code  |  | IRC2021/                          | TPI2014  | Matrix-S  | S   | 0.30  | 11012(C   | 51)  | 0.02         | 12             | n/a          | 11/a       | Weight:        | 79 lb    | FT = 20%F, 12%E        |
| LUM<br>TOP<br>BOT<br>WEB<br>OTH<br>BRA<br>TOP<br>BOT<br>REA | BER<br>CHORD<br>CHORD<br>S<br>ERS<br>CING<br>CHORD<br>CHORD<br>CHORD | 2x4 SP No.2<br>2x4 SP SS(<br>2x4 SP No.2<br>2x4 SP No.2<br>Structural w<br>6-0-0 oc pu<br>Rigid ceiling<br>bracing.<br>(size) 1<br>Max Uplift 1<br>Max Grav 1<br>1 | 2(flat)<br>3(flat)<br>3(flat)<br>3(flat)<br>4(flat)<br>0 directly<br>1=0-3-8,<br>1=-431 (<br>1=82 (LC<br>8=484 (L | athing directly<br>cept end vertic<br>applied or 6-0<br>12=0-4-8, 18=<br>LC 33)<br>C 44), 12=1199<br>C 3) | applied<br>als.<br>-0 oc<br>=0-4-8<br>9 (LC 1) | 5)<br>6)<br>or<br>7)<br>LOA<br>1) | This truss h<br>load of 250.<br>panels and d<br>Bottom Cho<br>Recommend<br>10-00-00 oc<br>(0.131" X 3"<br>at their oute<br>CAUTION, I<br>DEad + Flo<br>Plate Incre<br>Uniform Lo<br>Vert: 11 | as been do<br>Olb live an<br>at all pane<br>rd, noncor<br>and faste<br>) nails. St<br>r ends or r<br>Do not ere<br>of Standai<br>base=1.00<br>bads (lb/ft)<br>-18=-7, 1-2 | esigned fo<br>ad 3.0lb dea<br>el points ala<br>ncurrent wi<br>ngbacks, o<br>ened to each<br>trongbacks<br>restrained<br>act truss ba<br>rd<br>alanced): I<br>29=-67, 29 | r a mov<br>ad loca<br>ong the<br>ith any<br>on edge<br>ch truss<br>to be<br>by othe<br>ackward<br>Lumbe | ving con<br>ated at a<br>2 Top Ch<br>other liv<br>e, space<br>s with 3-<br>attached<br>er means<br>ds.<br>r Increas<br>17, 10-3 | centrate<br>II mid<br>hord and<br>re loads.<br>d at<br>10d<br>d to wall:<br>s.<br>se=1.00,<br>31=-67 | ed<br>J<br>s |                |              |            |                |          |                        |
| FOR   | CES  | (lb) - Maxim<br>Tension  | um Com  | pression/Maxi   | mum  |                                   |  |   |   |   |   |  |              |                |              |            |                |          |                        |
| TOP   | CHORD  | 1-18=-259/3<br>2-3=-1149/0<br>5-6=-1684/0  | 82, 10-11<br>), 3-4=-10<br>), 6-7=-59   | =-261/8, 1-2=0<br>684/0, 4-5=-16<br>90/0, 7-8=0/12  | 0/0,<br>84/0,<br>96,                           |                                   |  |   |   |   |   |  |              |                |              |            |                |          |                        |
| вот   | CHORD  | 8-9=0/1295<br>17-18=0/71<br>14-15=0/12   | , 9-10=-1<br>8, 16-17=<br>01, 13-14   | 9/1<br>=0/1528, 15-16<br>1=-421/171,  | 6=0/168  | 4,                                |  |   |   |   |   |  |              |                |              |            |                |          |                        |
| WEB   | S  | 12-13=-421,<br>4-16=-231/2<br>9-11=0/817,<br>6-14=-747/0<br>7-12=-1353,<br>3-17=-483/0   | /171, 11-<br>?7, 5-15=<br>9-12=-8<br>), 6-15=0<br>/0, 2-18=<br>), 3-16=-  | 12=-689/0<br>332/0, 8-12=-<br>01/0, 7-14=0/8<br>/684, 7-13=-8(<br>847/0, 2-17=(<br>116/381                | 278/22,<br>385,<br>0/246,<br>0/615,            | ,                                 |  |   |   |   |   |  |              |                | -            | A'''       | ORTH           | C.       | ARO                    |
| <b>NOT</b>  | E <b>S</b><br>Jobalance  | d floor live los   | ads have  | been conside  | red for  |                                   |  |   |   |   |   |  |              |                | 1111         |            | 71             |          |                        |
| 2) <i>t</i>   | his design   |  |   | s otherwise inc   | licated  |                                   |  |   |   |   |   |  |              |                | E.           |            |                | SE/      | AL E                   |
| 3) (  | Dne H2.5A  | Simpson Str  | ong-Tie   | connectors  |  |                                   |  |   |   |   |   |  |              |                | 111          |            | . '            | 200      |                        |
| l   | JPLIFT at  | jt(s) 11. This   | connecti  | on is for uplift  | only and                                       | d                                 |  |   |   |   |   |  |              |                | 11           |            | N.S.           |          | EER A                  |
| 4) L<br>c<br>f  | oad case   | (s) 1 has/have<br>nust review lo<br>nded use of t  | e been m<br>ads to ve<br>his truss.   | odified. Buildir<br>rify that they a  | ng<br>Ire corre                                | ect                               |  |   |   |   |   |  |              |                |              |            | HN             | L. C     | ALINSIII               |

July 2,2025



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 BCEL Building Component Science United for the Structure Buckling Component Advance Truss Plate Institute (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 | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1F8A  | Floor      | 24  | 1   | Job Reference (optional)      | 174582437 |

Structural, LLC, Thurmont, MD - 21788

TCLL

TCDL

BCLL

BCDL

WFBS

WEBS



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 overal building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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)



| Job         | Truss | Truss Type Qty Ply |   | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|--------------------|---|-----|-------------------------------|-----------|
| 2412-1161-A | 1F8   | Floor              | 8 | 1   | Job Reference (optional)      | 174582438 |

Scale = 1:46.7

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:23 Page: 1 ID:fvZmWfg3QPTYHcJDDXj\_qrzGwY7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



|              |                          | , 0  |                                 |             |   |   |                         |                              |        |       |        |     |                |               |     |
|--------------|--------------------------|--|---------------------------------|-------------|---|---|-------------------------|------------------------------|--------|-------|--------|-----|----------------|---------------|-----|
| Loading      | -                        | (psf)  | Spacing                         | 1-4-0       |   | CSI                                       |                         | DEFL                         | in     | (loc) | l/defl | L/d | PLATES         | GRIP          |     |
| TCLL         |                          | 40.0   | Plate Grip DOL                  | 1.00        |   | тс  | 0.83                    | Vert(LL)                     | -0.13  | 26-27 | >999   | 480 | MT20HS         | 187/143       |     |
| TCDL         |                          | 10.0   | Lumber DOL                      | 1.00        |   | BC  | 0.94                    | Vert(CT)                     | -0.20  | 26-27 | >783   | 360 | MT20           | 244/190       |     |
| BCLL         |                          | 0.0  | Rep Stress Incr                 | NO          |   | WB  | 0.40                    | Horz(CT)                     | 0.02   | 16    | n/a    | n/a | -              |               |     |
| BCDL         |                          | 5.0  | Code                            | IRC202      | 1/TPI2014   | Matrix-S                                  |                         | - (- )                       |        |       |        |     | Weight: 114 lb | FT = 20%F. 12 | 2%E |
|              |                          |  |                                 |             |   |   |                         |                              |        |       |        |     |                |               |     |
| LUMBER       |                          |  |                                 | 2)          | All plates are  | MT20 plates unl                           | less other              | wise indicate                | ed.    |       |        |     |                |               |     |
| TOP CHORD    | 2x4 SP No<br>(flat)      | .2(flat) *E  | xcept* 7-15:2x4 SP              | SS 3)<br>4) | All plates are<br>Load case(s)  | e 3x3 (=) MT20 u<br>) 1 has/have beer     | nless oth<br>n modified | erwise indica<br>J. Building | ited.  |       |        |     |                |               |     |
| BOT CHORD    | 2x4 SP SS<br>(flat)      | (flat) *Exc  | cept* 22-16:2x4 SP N            | No.2        | designer mu   | st review loads to<br>led use of this tru | verify that             | at they are co               | orrect |       |        |     |                |               |     |
| WEBS         | 2x4 SP No                | .3(flat)   |                                 | 5)          | This truss ha   | is been designed                          | for a mov               | ing concent                  | rated  |       |        |     |                |               |     |
| BRACING      |                          | - (  |                                 |             | load of 250.0   | lb live and 3.0lb                         | dead loca               | ited at all mic              | ł      |       |        |     |                |               |     |
| TOP CHORD    | Structural               | wood she   | athing directly applie          | ed or       | panels and a  | t all panel points                        | along the               | Top Chord                    | and    |       |        |     |                |               |     |
|              | 6-0-0 oc p               | urlins. ex   | cept end verticals.             |             | Bottom Chor   | d, nonconcurrent                          | with any                | other live loa               | ads.   |       |        |     |                |               |     |
| BOT CHORD    | Rigid ceilir<br>bracing. | ng directly  | applied or 6-0-0 oc             | 6)          | <ol> <li>Recommend 2x6 strongbacks, on edge, spaced at<br/>10-00-00 oc and fastened to each truss with 3-10d</li> </ol> |   |                         |                              |        |       |        |     |                |               |     |
| REACTIONS    | (size)                   | 16=0-4-8   | 21=0-4-8 28=0-4-8               |             | (0.131" X 3")   | nails. Strongbad                          | cks to be               | attached to v                | valls  |       |        |     |                |               |     |
|              | Max Grav                 | 16=1108  | (I C 64) 21=1252 (I             | C 1)        | at their outer  | ends or restraine                         | ed by othe              | er means.                    |        |       |        |     |                |               |     |
|              | max erat                 | 28=515 (L  | _C 3)                           | (2 .), 7)   | CAUTION, D  | o not erect truss                         | backward                | ds.                          |        |       |        |     |                |               |     |
| FORCES       | (lb) - Maxir             | num Com  | nression/Maximum                | L           | DAD CASE(S)   | Standard                                  |                         |                              |        |       |        |     |                |               |     |
| I ONOLO      | Tension                  | 1) Dead + Floor Live (balanced): Lumber Increase=1.00, |                                 |             |   |   |                         |                              |        |       |        |     |                |               |     |
| TOP CHORD    | 1-28=-259                | /32. 15-16   | 6=-727/0. 1-2=0/0.              |             | Plate Increa  | ase=1.00                                  |                         |                              |        |       |        |     |                |               |     |
|              | 2-3=-1243                | /0. 3-4=-1   | 875/0. 4-5=-1875/0.             |             | Uniform Loa   | ads (lb/ft)                               |                         |                              |        |       |        |     |                |               |     |
|              | 5-6=-1875                | /0, 6-8=-7   | 01/0, 8-9=0/1518,               |             | Vert: 16-   | 28=-7, 1-42=-67,                          | 42-44=-1                | 33, 15-44=-6                 | 67     |       |        |     |                |               |     |
|              | 9-10=0/15                | 16, 10-11:   | =-249/619,                      |             | Concentrate   | ed Loads (lb)                             |                         |                              |        |       |        |     |                |               |     |
|              | 11-12=-88                | 1/11, 12-1   | 3=-881/11, 13-14=-              | 968/0,      | Vert: 51=   | -867                                      |                         |                              |        |       |        |     |                |               |     |
|              | 14-15=0/0                |  |                                 |             |   |   |                         |                              |        |       |        |     |                | 11.           |     |
| BOT CHORD    | 27-28=0/76               | 68, 26-27:   | =0/1667, 25-26=0/18             | 375,        |   |   |                         |                              |        |       |        |     | WILL CA        | E l'II        |     |
|              | 24-25=0/13               | 352, 23-24   | 4=-352/97,                      |             |   |   |                         |                              |        |       |        |     | THUA           | ROIL          |     |
|              | 21-23=-35                | 2/97, 20-2   | 21=-920/0,                      |             |   |   |                         |                              |        |       |        | 5   | N. Acho        | in the        |     |
|              | 19-20=-32                | 3/626, 18  | -19=-11/881,                    |             |   |   |                         |                              |        |       |        | 22  |                | PK. St        | -   |
|              | 17-18=-11/               | /881, 16-1   | 7=0/945                         |             |   |   |                         |                              |        |       |        |     |                | US:           | -   |
| WEBS         | 4-26=-259/               | /4, 5-25=-   | 365/0, 9-21=-276/32             | ,           |   |   |                         |                              |        |       | -      | /   |                | N :           | =   |
|              | 8-24=0/93                | 7,6-24=-8  | 330/0, 6-25=0/770,              | 1/0         |   |   |                         |                              |        |       | Ξ.     |     | SEA            |               | - E |
|              | 8-23=-11/2               | 248, 8-21=   | -1467/0, 10-21=-92              | 1/0,        |   |   |                         |                              |        |       | =      |     | 00007          | -             | -   |
|              | 14-10=-11                | 20/0, 10-2<br>6/121 11                                 | 20=0/039,                       |             |   |   |                         |                              |        |       | 1      | :   | 286/           | / :           | =   |
|              | 13-1725                  | 0/121,11 <sup>.</sup><br>/454 11_1                     | -20=-013/0,<br>19-0/527 12-1925 | 4/63        |   |   |                         |                              |        |       | -      |     |                |               | 2   |
|              | 13-18=-15                | 9/146 2-2  | 28=-906/0 2-27=0/6              | 52<br>52    |   |   |                         |                              |        |       |        | 2   | N              | ain           | 2   |
|              | 3-27=-518                | /0. 3-26=-   | 82/429                          | ,           |   |   |                         |                              |        |       |        | -,4 | O. SNGINI      | Ent           |     |
| NOTES        |                          | .,   |                                 |             |   |   |                         |                              |        |       |        | 11  | YA,            | N             |     |
| 1) Unbalance | ad floor live k          | hads have  | heen considered fo              | r           |   |   |                         |                              |        |       |        |     | LG             | ALI           |     |
| this desiar  | ).                       |  |                                 | •           |   |   |                         |                              |        |       |        |     | 1111111        | min           |     |

July 2,2025



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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (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 | Stonefield Rev 3-Elev 1-Floor         |           |
|-------------|-------|------------|-----|-----|---------------------------------------|-----------|
| 2412-1161-A | 1F9   | Floor      | 4   | 1   | Job Reference (optional)              | 174582439 |
|             |       |            |     |     | · · · · · · · · · · · · · · · · · · · |           |

Structural, LLC, Thurmont, MD - 21788

Loading

TCLL

TCDL

BCLL

BCDL

WEBS

WEBS

NOTES 1)

2)

3)



July 2,2025



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 bilding 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)

| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1F10  | Floor      | 12  | 1   | Job Reference (optional)      | 174582440 |

TCLL

TCDI

BCLL

BCDL

WEBS

WEBS

1)

2) 3)



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 overal building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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)



Edenton, NC 27932

| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1F10A | Floor      | 16  | 1   | Job Reference (optional)      | 174582441 |

Scale = 1:46.5

Loading

TCLL

TCDL

BCLL

BCDL

WEBS

OTHERS

BRACING

TOP CHORD

BOT CHORD

REACTIONS

TOP CHORD

BOT CHORD

WEBS

NOTES

1)

2)

FORCES

LUMBER

TOP CHORD

BOT CHORD

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:25 Page: 1 ID:nX5Drlwv7daXLJzWXdiXSxzGw6i-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 0-1-8 2-0-0 1-8-0 1-3-0 1.5x3 u 3x6 =1.5x3 1.5x3 u 3x4 = 1.5x3 II 3x3 II 3x4 = MT20HS 3x8 FP 50 3x3 II 1 41 2 42 3 43 4 5 45 6 8 46 9 47 10 48 49 12 13 51 14 52 44 7 11 15 -3-8 □ 0-0-30 27 31 26 32 25 33 24 34 23 22 ĕ 36 20 37 19 18 39 17 40 Ř 21 35 38 3x6 = 3x4 = 1.5x3 u 1.5x3 = 3x4= 3x6= MT20HS 3x8 FP 1.5x3 🛛 3x6 = 7-4-8 6-4-8 5-4-8 13-2-0 23-2-4 5-9-8 10-0-4 5-4-8 1-0-0 1-0-0 23-2-4 Plate Offsets (X, Y): [19:0-1-8,Edge] Spacing 1-4-0 CSI DEFL in (loc) l/defl L/d PLATES GRIP (psf) 40.0 Plate Grip DOL 1.00 TC 0.84 Vert(LL) -0.13 26-27 >999 480 MT20HS 187/143 10.0 Lumber DOL 1.00 BC 0.88 Vert(CT) -0.16 26-27 >952 360 MT20 244/190 Rep Stress Incr NO WB 0.0 0.34 Horz(CT) 0.02 16 n/a n/a Code IRC2021/TPI2014 Matrix-S Weight: 114 lb FT = 20%F, 12%E 5.0 3) All plates are 3x3 (=) MT20 unless otherwise indicated. 2x4 SP No.2(flat) 4) Load case(s) 1 has/have been modified. Building 2x4 SP No.2(flat) \*Except\* 22-28:2x4 SP SS designer must review loads to verify that they are correct for the intended use of this truss. (flat) 2x4 SP No.3(flat) 5) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid 2x4 SP No.3(flat) panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads. Structural wood sheathing directly applied or 6) Recommend 2x6 strongbacks, on edge, spaced at 6-0-0 oc purlins, except end verticals. 10-00-00 oc and fastened to each truss with 3-10d Rigid ceiling directly applied or 6-0-0 oc (0.131" X 3") nails. Strongbacks to be attached to walls bracing. at their outer ends or restrained by other means. 16=0-4-8, 21=0-4-8, 28=0-3-8 (size) 7) CAUTION, Do not erect truss backwards. Max Grav 16=504 (LC 66), 21=1169 (LC 1), LOAD CASE(S) Standard 28=404 (LC 3) Dead + Floor Live (balanced): Lumber Increase=1.00, 1) (Ib) - Maximum Compression/Maximum Plate Increase=1.00 Tension Uniform Loads (lb/ft) 1-28=-259/36, 15-16=-252/46, 1-2=-18/3, Vert: 16-28=-7. 1-15=-67 2-3=-916/0, 3-4=-1246/0, 4-5=-1246/0, Concentrated Loads (lb) 5-6=-1246/0, 6-8=-482/222, 8-9=0/1249, Vert: 13=-322 9-10=0/1247, 10-11=-659/179, 11-12=-1506/0, 12-13=-1506/0, 13-14=-1192/0, 14-15=0/0 27-28=0/590, 26-27=0/1194, 25-26=0/1246, OR 24-25=-53/934, 23-24=-390/59, 21-23=-390/59, 20-21=-554/169, 19-20=0/1131, 18-19=0/1506, 17-18=0/1506, THURSDAY WANTED 16-17=0/744 4-26=-148/116. 5-25=-232/46. 9-21=-272/37. 2-28=-697/0. 2-27=0/465. 3-27=-340/59. SEAL 3-26=-275/239, 8-24=0/689, 6-24=-588/0 6-25=-57/526, 10-21=-1027/0, 14-16=-882/0, 28677 10-20=0/736, 14-17=0/640, 11-20=-726/0, 13-17=-512/0, 11-19=0/662, 12-19=-280/30 13-18=-247/55, 8-23=-79/247, 8-21=-1148/0 Unbalanced floor live loads have been considered for GA this design. All plates are MT20 plates unless otherwise indicated July 2,2025

818 Soundside Road

Edenton, NC 27932

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)

| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1F10B | Floor      | 5   | 1   | Job Reference (optional)      | 174582442 |

Loading

TCLL

TCDL

BCLL

BCDL

WEBS

WEBS

NOTES

1)

2)





| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1F1   | Floor      | 30  | 1   | Job Reference (optional)      | 174582447 |



3x6 =

|                |       |                 |                 |          | 14-4-4 | 1        |       |       |        |     |                           |                |   |  |  |
|----------------|-------|-----------------|-----------------|----------|--------|----------|-------|-------|--------|-----|---------------------------|----------------|---|--|--|
|                |       | 14-4-4          |                 |          |        |          |       |       |        |     |                           |                |   |  |  |
| Scale = 1:26.7 |       |                 |                 |          |        |          |       |       |        |     |                           |                |   |  |  |
| _oading        | (psf) | Spacing         | 2-0-0           | CSI      |        | DEFL     | in    | (loc) | l/defl | L/d | PLATES                    | GRIP           |   |  |  |
| TCLL           | 40.0  | Plate Grip DOL  | 1.00            | тс       | 0.80   | Vert(LL) | -0.19 | 13-14 | >886   | 480 | MT20                      | 244/190        |   |  |  |
| FCDL           | 10.0  | Lumber DOL      | 1.00            | BC       | 0.88   | Vert(CT) | -0.26 | 13-14 | >645   | 360 |                           |                |   |  |  |
| BCLL           | 0.0   | Rep Stress Incr | YES             | WB       | 0.42   | Horz(CT) | 0.05  | 9     | n/a    | n/a |                           |                |   |  |  |
| BCDI           | 5.0   | Code            | IRC2021/TPI2014 | Matrix-S |        |          |       |       |        |     | Weight <sup>,</sup> 73 lb | FT = 20%F 12%F | 1 |  |  |

LUMBER

| TOP CHORD | 2x4 SP No.2(flat)   |
|-----------|---|
| BOT CHORD | 2x4 SP No.2(flat)   |
| WEBS      | 2x4 SP No.3(flat)   |
| OTHERS    | 2x4 SP No.3(flat)   |
| BRACING   |   |
| TOP CHORD | Structural wood sheathing directly applied or 5-8-12 oc purlins, except end verticals.  |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.  |
| REACTIONS | (size) 9=0-4-8, 18=0-3-8<br>Max Grav 9=776 (LC 1), 18=769 (LC 1)  |
| FORCES    | (Ib) - Maximum Compression/Maximum<br>Tension   |
| TOP CHORD | 1-18=-262/39, 8-9=-262/35, 1-2=-19/3,<br>2-3=-1853/0, 3-4=-2864/0, 4-5=-3131/0,<br>5-62864/0, 6-71853/0, 7-8-0/0  |
| BOT CHORD | 17-18=0/1131, 16-17=0/2570, 15-16=0/2570,<br>14-15=0/3131, 13-14=0/3131, 12-13=0/3131,<br>11_12=0/2570, 10_11=0/2570, 9_10=0/1132   |
| WEBS      | 2-18=-1337/0, 7-9=-1341/0, 2-17=0/881,<br>7-10=0/881, 3-17=-862/0, 6-10=-861/0,<br>4-14=-157/176, 5-13=-157/176,<br>3-16=-98/246, 3-15=-45/409, 5-12=-474/163,<br>6-11=-98/246, 6-12=-45/409, 5-12=-474/163 |

### NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- 2) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- Recommend 2x6 strongbacks, on edge, spaced at 3) 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



July 2,2025

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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (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 | Stonefield Rev 3-Elev 1-Floor |           |  |  |  |
|-------------|------------------|-----------------------|-----|-----|-------------------------------|-----------|--|--|--|
| 2412-1161-A | 1FGE1            | Floor Supported Gable | 7   | 1   | Job Reference (optional)      | 174582448 |  |  |  |

# Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:27 Page: 1 ID:wFkA9mzp4J38wyny9ObMcRzGx20-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



| Scale = 1:31.3   |   |   |                         |  |  |                                     |                                 |      |       |        |        |               |                 |
|--|---|---|-------------------------|--|--|-------------------------------------|---------------------------------|------|-------|--------|--------|---------------|-----------------|
| Loading  | (psf)   | Spacing   | 2-0-0                   |  | CSI  |                                     | DEFL                            | in   | (loc) | l/defl | L/d    | PLATES        | GRIP            |
| TCLL   | 40.0  | Plate Grip DOL  | 1.00                    |  | тс   | 0.28                                | Vert(LL)                        | n/a  | -     | n/a    | 999    | MT20          | 244/190         |
| TCDL   | 10.0  | Lumber DOL  | 1.00                    |  | BC   | 0.29                                | Vert(TL)                        | n/a  | -     | n/a    | 999    |               |                 |
| BCLL   | 0.0   | Rep Stress Incr   | YES                     |  | WB   | 0.05                                | Horiz(TL)                       | 0.00 | 13    | n/a    | n/a    |               |                 |
| BCDL   | 5.0   | Code  | IRC2021                 | /TPI2014   | Matrix-R   |                                     |                                 |      |       |        |        | Weight: 57 lb | FT = 20%F, 12%E |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD | 2x4 SP No.2(flat)<br>2x4 SP No.2(flat)<br>2x4 SP No.3(flat)<br>2x4 SP No.3(flat)<br>Structural wood sh  | neathing directly applie  | 3)<br>4)<br>5)<br>ed or | Truss to be<br>braced agai<br>Gable studs<br>N/A | fully sheathed fr<br>nst lateral move<br>spaced at 1-4-0 | om one fac<br>ment (i.e. d<br>) oc. | e or securely<br>liagonal web). | atod |       |        |        |               |                 |
| BOT CHORD  | 6-0-0 oc purlins, e<br>Rigid ceiling direct<br>bracing.   | except end verticals.<br>Iy applied or 6-0-0 oc                                       | 0)                      | load of 250.<br>panels and                       | Olb live and 3.0ll<br>at all panel point                 | b dead loca<br>ts along the         | ated at all mid<br>Top Chord a  | ind  |       |        |        |               |                 |
| REACTIONS  | bracing.       particle and a fail particle points along the points |   |                         |  |  |                                     |                                 |      |       |        |        |               |                 |
| FORCES   | (lb) - Maximum Co<br>Tension  | mpression/Maximum   |                         |  |  |                                     |                                 |      |       |        |        | mun           | unn.            |
| TOP CHORD  | 1-24=-259/21, 12-<br>2-3=-30/7, 3-4=-30<br>6-7=-30/7, 7-8=-30<br>10-11=-30/7, 11-1  | 13=-248/61, 1-2=-30/7<br>)/7, 4-5=-30/7, 5-6=-3<br>)/7, 8-9=-30/7, 9-10=-3<br>2=-30/7 | 7,<br>0/7,<br>30/7,     |  |  |                                     |                                 |      |       |        | N.N.N. | OR THESE      | ROUN            |
| BOT CHORD  | 23-24=-7/30, 22-2<br>20-21=-7/30, 19-2<br>17-18=-7/30, 16-1<br>14-15=-7/30, 13-1  | 3=-7/30, 21-22=-7/30,<br>0=-7/30, 18-19=-7/30,<br>7=-7/30, 15-16=-7/30,<br>4=-7/30    |                         |  |  |                                     |                                 |      |       |        |        | SEA           |                 |
| WEBS   | 2-23=-277/7, 3-22<br>5-20=-278/5, 6-19<br>8-17=-278/5, 9-16<br>11-14=-268/23  | =-278/5, 4-21=-278/5,<br>=-278/5, 7-18=-278/5,<br>=-278/5, 10-15=-279/4               | 4,                      |  |  |                                     |                                 |      |       | 1111   |        |               | EEB A           |
| NOTES  |   |   |                         |  |  |                                     |                                 |      |       |        | 11     | YA,           | NS              |
| 1) All plates  | are 1.5x3 (  ) MT20   | unless otherwise  |                         |  |  |                                     |                                 |      |       |        |        | 11, L. G      | ALIU            |
|  |   | and the second large strains as   |                         |  |  |                                     |                                 |      |       |        |        |               | 1111            |

2) Gable requires continuous bottom chord bearing.

July 2,2025



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 **ANSUTP11 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)

| Job               |                           | Truss                      |                              |  | Truss Type  |                        |               | Qty Ply Stonefield Rev 3-E |                         |                   |                      |               | Rev 3-E     | 3-Elev 1-Floor<br>174582449 |  |            | la                 |           |        |
|-------------------|---------------------------|----------------------------|------------------------------|--|-------------|------------------------|---------------|----------------------------|-------------------------|-------------------|----------------------|---------------|-------------|-----------------------------|--|------------|--------------------|-----------|--------|
| 2412-1161-        | A                         | 1FGE                       | 5                            |  | Floor S     | Supported              | Gab           | ole                        |                         | 4                 |                      | 1             | Job I       | Refere                      | nce (op                                | tional)    |                    | 11-50244  |        |
| Structural, LLC,  | Thurmont, MD              | - 21788,                   |                              |  |             |                        |               | Run: 25                    | .20 S May               | 13 202            | 5 Print: 2           | 25.2.0 S Ma   | y 13 202    | 25 MiTe                     | k Industr                              | ies, Inc.  | . Mon Jun 30 14:50 | 6:28 Pa   | age: 1 |
|                   |                           |                            |                              |  |             |                        |               | ID:TNhe                    | 6xnKk_7P                | LJkz4Q            | g9OyzG               | wvE-RfC?P     | 'sB70Hq     | <sub>1</sub> 3NSgP          | qnL8w3u                                | ITXbGF     | (WrCDoi7J4zJC?f    |           |        |
|                   |                           |                            |                              |  |             |                        |               |                            |                         |                   |                      |               |             |                             |  |            | 13-11-12           |           |        |
|                   |                           | 1-4-                       | 0                            |  |             |                        |               |                            |                         |                   |                      |               |             |                             |  |            |                    |           |        |
|                   |                           | 1-4-                       | 0                            |  |             |                        |               |                            |                         |                   |                      |               |             |                             |  |            |                    |           |        |
|                   |                           |                            |                              |  |             |                        |               |                            |                         |                   |                      |               |             |                             |  |            | 0-7-12             |           |        |
|                   |                           |                            |                              |  |             |                        |               |                            |                         |                   |                      |               |             |                             |  |            | 0-1-8              |           |        |
|                   |                           |                            |                              |  |             |                        |               |                            |                         |                   |                      |               |             |                             |  |            | Ħ                  |           |        |
|                   |                           | 3x3 II                     |                              |  |             |                        |               |                            |                         |                   |                      |               |             |                             |  |            |                    |           |        |
|                   |                           |                            |                              |  |             |                        |               |                            |                         |                   |                      |               |             |                             |  |            |                    |           |        |
|                   |                           | 1 36                       | 5 2 3                        | 37 3                                   | 38          | 4 39                   | 5             | 40                         | 6 41                    | 7                 | 42                   | 8 4           | 43 9        | 94                          | 4 10                                   | 45         | 5 <u>11</u> 12     | o         |        |
|                   | 0                         | Ť                          | •                            | •                                      |             | •                      | •             |                            | •                       | •                 |                      | •             |             | •                           | •                                      |            |                    | -9        |        |
|                   | 1-0                       | 24                         |                              |  |             |                        |               |                            | 0                       |                   |                      |               |             | -                           |  |            |                    |           |        |
|                   |                           |                            |                              |  |             |                        |               |                            |                         |                   |                      |               |             |                             |  | ****       |                    |           |        |
|                   |                           | 26                         | s 23 2                       | ······································ | 28 2        | <u>~~~~~</u> 21 29     | 20×           | 30                         | 19 31                   | 18                | ××××××<br>32         | 17 3          | 33 1        | 6 3                         | ×××××××××××××××××××××××××××××××××××××× | 35         | 5 14               |           |        |
|                   |                           | 3x3 II                     |                              |  |             |                        |               |                            |                         |                   |                      |               |             |                             |  |            | 3x3 =              |           |        |
|                   |                           |                            |                              |  |             |                        |               |                            |                         |                   |                      |               |             |                             |  |            |                    |           |        |
|                   |                           |                            |                              |  |             |                        |               |                            |                         |                   |                      |               |             |                             |  |            | 1.5x3 =            |           |        |
|                   |                           |                            |                              |  |             |                        |               |                            | 13-11-12                |                   |                      |               |             |                             |  |            |                    |           |        |
| Scale = 1:30      |                           | I                          |                              |  |             |                        |               |                            | 13-11-12                |                   |                      |               |             |                             |  |            | I                  |           |        |
| Loading           |                           | (psf)                      | Spacing                      |  | 2-0-0       |                        |               | CSI                        |                         |                   | DEFL                 |               | in          | (loc)                       | l/defl                                 | L/d        | PLATES             | GRIP      |        |
| TCLL              |                           | 40.0                       | Plate Grip                   | DOL                                    | 1.00        |                        |               | TC                         |                         | 0.28              | Vert(l               | -<br>_L)      | n/a         | -                           | n/a                                    | 999        | MT20               | 244/190   |        |
| TCDL<br>BCLL      |                           | 10.0<br>0.0                | Lumber D<br>Rep Stres        | OL<br>s Incr                           | 1.00<br>YES |                        |               | BC<br>WB                   |                         | 0.29<br>0.05      | Vert(<br>Horiz       | TL)<br>(TL) 0 | n/a<br>1.00 | -<br>13                     | n/a<br>n/a                             | 999<br>n/a |                    |           |        |
| BCDL              |                           | 5.0                        | Code                         |  | IRC202      | 1/TPI2014              |               | Matrix-R                   |                         |                   |                      |               |             |                             |  |            | Weight: 57 lb      | FT = 20%F | , 12%E |
| LUMBER            |                           |                            |                              |  | 1)          | All plates             | are ?         | 1.5x3 (  )                 | MT20 ur                 | less o            | therwis              | е             |             |                             |  |            |                    |           |        |
| TOP CHORD         | 2x4 SP No<br>2x4 SP No    | o.2(flat)<br>o.2(flat)     |                              |  | 2)          | indicated<br>Gable red | auires        | s continu                  | ous botto               | m chor            | d beari              | na.           |             |                             |  |            |                    |           |        |
| WEBS              | 2x4 SP No                 | 0.3(flat)                  |                              |  | 3)          | Truss to I             | be ful        | lly sheath                 | ed from o               | one fac           | e or se              | curely        |             |                             |  |            |                    |           |        |
| OTHERS<br>BRACING | 2x4 SP No                 | o.3(flat)                  |                              |  | 4)          | Gable stu              | ids s         | paced at                   | 1-4-0 oc.               | t (i.e. d         | lagona               | i web).       |             |                             |  |            |                    |           |        |
| TOP CHORD         | Structural                | wood shea                  | athing direc                 | tly applied                            | dor 5)      | N/A                    |               |                            |                         |                   |                      |               |             |                             |  |            |                    |           |        |
| BOT CHORD         | 6-0-0 oc p<br>Rigid ceili | urlins, exc<br>ng directly | applied or 6                 | rticals.<br>6-0-0 oc                   |             |                        |               |                            |                         |                   |                      |               |             |                             |  |            |                    |           |        |
| DEACTIONS         | bracing.                  | 10 10 11                   | 10 11 10                     | 44.40                                  | 6)          | This truss             | s has         | been de                    | signed fo               | r a mov           | /ing co              | ncentrated    | ł           |                             |  |            |                    |           |        |
| REACTIONS         | (SIZE)                    | 15=13-11-                  | -12, 14=13-<br>-12, 16=13-   | 11-12,                                 |             | load of 25             | 50.0lk        | o live and                 | 3.0lb dea               | ad loca           | ted at a             | all mid       |             |                             |  |            |                    |           |        |
|                   |                           | 17=13-11-<br>19=13-11-     | -12, 18=13-<br>-12 20=13-    | 11-12,<br>11-12                        |             | Bottom C               | hord          | , noncon                   | current wi              | th any            | other li             | ive loads.    |             |                             |  |            |                    |           |        |
|                   |                           | 21=13-11-                  | -12, 22=13-                  | 11-12,                                 | 7)          | Recomm<br>10-00-00     | end 2<br>oc a | 2x6 stron<br>nd faster     | gbacks, o<br>ied to eac | n edge<br>h truss | e, space<br>s with 3 | ed at<br>-10d |             |                             |  |            |                    |           |        |
|                   | Max Uplift                | 23=13-11-<br>13=-77 (L     | -12, 24=13-<br>C 35), 14=-   | 11-12<br>31 (LC 4),                    | ,           | (0.131" X              | 3") r         | nails. Str                 | ongbacks                | to be             | attache              | ed to walls   |             |                             |  |            |                    |           |        |
|                   | Max Grav                  | 24=-14 (L                  | C 27)                        | 282 (I C 3                             | e) 8)       | CAUTION                | v, Do         | not erec                   | t truss ba              | ckward            | ds.                  | 15.           |             |                             |  |            |                    |           |        |
|                   |                           | 15=295 (L                  | .C 46), 16=                  | 293 (LC 4                              | 5), LC      | DAD CASE               | (S)           | Standard                   | ł                       |                   |                      |               |             |                             |  |            |                    |           |        |
|                   |                           | 17=293 (L<br>19=293 (L     | .C 44), 18=2<br>.C 42). 20=2 | 293 (LC 4<br>293 (LC 4                 | 3),<br>1).  |                        |               |                            |                         |                   |                      |               |             |                             |  |            |                    |           |        |
|                   |                           | 21=293 (L                  | .C 40), 22=                  | 293 (LC 3                              | 9),<br>7)   |                        |               |                            |                         |                   |                      |               |             |                             |  |            |                    | 11.       |        |
| FORCES            | (lb) - Maxi               | ∠J≓∠93 (L<br>mum Com       | pression/M                   | aximum                                 | ')          |                        |               |                            |                         |                   |                      |               |             |                             |  |            | "TH CA             | ARO       |        |
|                   | Tension                   | /20 12 12                  |                              | -221/7                                 |             |                        |               |                            |                         |                   |                      |               |             |                             |  | J.         | R                  | 191       | 14     |
|                   | 2-3=-31/7,                | 3-4=-31/7                  | , 4-5=-31/7                  | , 5-6=-31/7                            | 7,          |                        |               |                            |                         |                   |                      |               |             |                             |  | 17         |                    | As: 3     | 12     |
|                   | 6-7=-31/7,<br>10-11=-31   | 7-8=-31/7<br>/7, 11-12=    | ′, 8-9=-31/7<br>⊱31/7        | , 9-10=-31                             | 1/7,        |                        |               |                            |                         |                   |                      |               |             |                             |  | 1          | ign N              | × :       | 11     |
| BOT CHORD         | 23-24=-7/3                | 31, 22-23=                 | -7/31, 21-2                  | 2=-7/31,                               |             |                        |               |                            |                         |                   |                      |               |             |                             | 3                                      |            | SEA                | AL :      | Ξ      |
|                   | 20-21=-7/3<br>17-18=-7/3  | 31, 19-20=<br>31, 16-17=   | -7/31, 18-1<br>-7/31, 15-1   | 9=-7/31,<br>6=-7/31,                   |             |                        |               |                            |                         |                   |                      |               |             |                             | Ξ                                      |            | 286                | 77        | Ξ      |
| WEBS              | 14-15=-7/3                | 31, 13-14=                 | -7/31                        | 278/5                                  |             |                        |               |                            |                         |                   |                      |               |             |                             | 1                                      |            |                    | 1         | E.     |
| VVLDO             | 5-20=-278                 | /5, 6-19=-2                | 278/5, 7-18                  | =-278/5,                               |             |                        |               |                            |                         |                   |                      |               |             |                             |  | 1,4        | NGIN               | EER       | 1      |
|                   | 8-17=-278<br>11-14=-26    | /5, 9-16=-2<br>4/30        | 278/5, 10-1                  | 5=-279/5,                              |             |                        |               |                            |                         |                   |                      |               |             |                             |  | 11         | MN                 | AL INS    | 5      |
| NOTES             |                           |                            |                              |  |             |                        |               |                            |                         |                   |                      |               |             |                             |  |            | 111111             | minin     |        |

July 2,2025



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 outlapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1F11  | Floor      | 36  | 1   | Job Reference (optional)      | 174582450 |

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:26 Page: 1 ID:YVP5jIORgVWPZmXN0YpXnFzGw?e-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





1-0-0 14-2-4

| Scale = | 1:36.8 |  |
|---------|--------|--|
|         |        |  |

Plate Offsets (X, Y): [14:0-1-8,Edge]

| Load<br>TCLL<br>TCD<br>BCLL<br>BCD                   | ding<br>L<br>L<br>L   | (psf)<br>40.0<br>10.0<br>0.0<br>5.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.00<br>1.00<br>YES<br>IRC2021/TPI2014 | CSI<br>TC<br>BC<br>WB<br>Matrix-S | 0.91<br>0.61<br>0.41 | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in<br>-0.20<br>-0.28<br>0.04 | (loc)<br>12-13<br>12-13<br>9 | l/defl<br>>830<br>>607<br>n/a | L/d<br>480<br>360<br>n/a | PLATES<br>MT20<br>Weight: 69 lb | <b>GRIP</b><br>244/190<br>FT = 20%F, | 12%E     |
|--|---|--|---|---|-----------------------------------|----------------------|--|------------------------------|------------------------------|-------------------------------|--------------------------|---------------------------------|--------------------------------------|----------|
| LUM<br>TOP<br>BOT<br>WEB<br>OTH<br>BRA<br>TOP<br>BOT | BER<br>CHORD<br>CHORD<br>3S<br>ERS<br>CING<br>CHORD<br>CHORD                      | 2x4 SP No.2(flat)<br>2x4 SP SS(flat)<br>2x4 SP No.3(flat)<br>2x4 SP No.3(flat)<br>2x4 SP No.3(flat)<br>Structural wood shea<br>2-2-0 oc purlins, exc<br>Rigid ceiling directly<br>bracing. | athing directly appli<br>cept end verticals.<br>applied or 10-0-0 o   | ed or<br>c                                      |                                   |                      |  |                              |                              |                               |                          |                                 |                                      |          |
| REA  | CTIONS  | (size) 9=0-3-8, 1<br>Max Grav 9=760 (LC  | 16=0-4-8<br>C 1), 16=767 (LC 1)   |   |                                   |                      |  |                              |                              |                               |                          |                                 |                                      |          |
| FOR  | CES   | (lb) - Maximum Com<br>Tension  | pression/Maximum  |   |                                   |                      |  |                              |                              |                               |                          |                                 |                                      |          |
| ТОР  | CHORD   | 1-16=-260/32, 8-9=-2<br>2-3=-1803/0, 3-4=-29<br>5-6=-2827/0, 6-7=-18   | 263/35, 1-2=0/0,<br>969/0, 4-5=-2969/0,<br>861/0_7-8=-19/2  |   |                                   |                      |  |                              |                              |                               |                          |                                 |                                      |          |
| вот  | CHORD   | 15-16=0/1119, 14-15<br>12-13=0/2969, 11-12<br>9-10=0/1157  | 5=0/2487, 13-14=0/2<br>2=0/2557, 10-11=0/2  | 2969,<br>2557,                                  |                                   |                      |  |                              |                              |                               |                          |                                 |                                      |          |
| WEB  | 3S  | 4-14=-265/50, 5-13=<br>2-15=0/835, 3-15=-8<br>7-9=-1351/0, 7-10=0<br>6-11=-105/236, 6-12   | -188/148, 2-16=-13<br>36/0, 3-14=-72/771<br>%859, 6-10=-836/0,<br>2=-61/393, 5-12=-43   | 9/271   |                                   |                      |  |                              |                              |                               |                          | THCA                            | Ro                                   |          |
| ΝΟΤ  | ES  |  |   |   |                                   |                      |  |                              |                              |                               | N                        | A                               | in the                               |          |
| 1) L<br>t  | Jnbalance<br>his design   | d floor live loads have  | been considered fo  | or  |                                   |                      |  |                              |                              |                               | i e                      | 4D                              | ani. A                               |          |
| 2) T<br>Io   | This truss I<br>oad of 250  | has been designed for<br>).0lb live and 3.0lb dea  | a moving concentrad located at all mid  | ated  |                                   |                      |  |                              |                              |                               |                          | SEA                             | LÌÌ                                  | 1111     |
| F<br>E<br>3) F<br>(<br>2<br>4) C                     | canels and<br>Bottom Chi<br>Recommer<br>10-00-00 o<br>(0.131" X 3<br>at their out | I at all panel points alo<br>ord, nonconcurrent with<br>ad 2x6 strongbacks, or<br>c and fastened to eac<br>3") nails. Strongbacks<br>er ends or restrained th<br>De pat erest trues back   | ong the Top Chord a<br>th any other live loa<br>n edge, spaced at<br>h truss with 3-10d<br>to be attached to w<br>by other means. | and<br>ids.<br>valls                            |                                   |                      |  |                              |                              | THE PARTY                     |                          | 2867                            | FR.St.                               | anna ann |
| LOA  | D CASE(S  | Standard   | unwalus.  |   |                                   |                      |  |                              |                              |                               |                          | 11, L.G.                        | ALIM                                 |          |
| LOY  |   |  |   |   |                                   |                      |  |                              |                              |                               |                          | 1111111                         | 11111                                |          |

July 2,2025

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 **ANSUTP11 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)



| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1F12  | Floor      | 24  | 1   | Job Reference (optional)      | 174582451 |

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:26 Page: 1 ID:YVP5jIORgVWPZmXN0YpXnFzGw?e-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





1-0-0 13-2-4

| Scale | = | 1:36 |  |
|-------|---|------|--|
|       |   |      |  |

| Plate Offsets (X, | Y): | [7:0-1-8,Edge] |
|-------------------|-----|----------------|
|-------------------|-----|----------------|

| Loading<br>TCLL<br>TCDL<br>BCLL<br>BCDI                       | (psf)<br>40.0<br>10.0<br>0.0<br>5.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code    | 2-0-0<br>1.00<br>1.00<br>YES<br>IRC2021/TPI2014 | CSI<br>TC<br>BC<br>WB<br>Matrix-S | 0.78<br>0.47<br>0.36 | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in<br>-0.14<br>-0.19<br>0.03 | (loc)<br>11-12<br>11-12<br>9 | l/defl<br>>999<br>>818<br>n/a | L/d<br>480<br>360<br>n/a | PLATES<br>MT20  | <b>GRIP</b><br>244/190<br>FT = 20%F 12%F |
|---|--|---|---|-----------------------------------|----------------------|--|------------------------------|------------------------------|-------------------------------|--------------------------|-----------------|--|
|   | 0.0  | 0000  |   |                                   |                      |  |                              |                              |                               |                          | troigini o i io |  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING | 2x4 SP No.2(flat)<br>2x4 SP SS(flat)<br>2x4 SP No.3(flat)<br>2x4 SP No.3(flat) |   |   |                                   |                      |  |                              |                              |                               |                          |                 |  |
| TOP CHORD<br>BOT CHORD  | Structural wood shea<br>6-0-0 oc purlins, exe<br>Rigid ceiling directly        | athing directly applie<br>cept end verticals.<br>applied or 10-0-0 or | ed or   |                                   |                      |  |                              |                              |                               |                          |                 |  |

|           | bracing.   |                                    |
|-----------|------------|------------------------------------|
| REACTIONS | (size)     | 9=0-3-8, 15=0-4-8                  |
|           | Max Grav   | 9=705 (LC 1), 15=712 (LC 1)        |
| FORCES    | (lb) - Max | imum Compression/Maximum           |
|           | Tension    |                                    |
| TOP CHORD | 1-15=-26   | 1/31, 8-9=-269/0, 1-2=0/0,         |
|           | 2-3=-1649  | 9/0, 3-4=-2581/0, 4-5=-2581/0,     |
|           | 5-6=-2285  | 5/0, 6-7=-1242/0, 7-8=-19/0        |
| BOT CHORD | 14-15=0/1  | 1035, 13-14=0/2240, 12-13=0/2581,  |
|           | 11-12=0/2  | 2581, 10-11=0/1935, 9-10=0/1242    |
| WEBS      | 4-13=-22   | 1/67, 5-12=-130/170, 2-15=-1227/0, |
|           | 2-14=0/74  | 19, 3-14=-721/0, 3-13=-130/621,    |
|           | 6-11=0/45  | 57, 5-11=-520/197, 6-10=-833/0,    |
|           | 7-10=0/48  | 30, 7-9=-1383/0                    |

# NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- 2) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means. 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard





July 2,2025

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 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 Ty  | pe   |   | Qty  | Ply   | Stonefield  | Rev 3-El                    | ev 1-F                   | loor                               | 174592452                                |
|--|---|---|---|--|---|--|---|--|---|---|-----------------------------|--------------------------|------------------------------------|--|
| 2412-1161-/  | A   | 1FGE  | 6   |  | Floor St  | upported Ga  | ible  | 4  | 1   | Job Refere  | ence (opt                   | ional)                   |                                    | 174082452                                |
| Structural, LLC,   | Thurmont, MD - 2  | 1788,   |   |  |   |  | Run: 25.20 S May 1  | 3 2025 Print:  | 25.2.0 S May  | / 13 2025 MiT   | ek Industri                 | es, Inc.                 | Mon Jun 30 14:                     | 56:28 Page: 1                            |
|  |   | ┝   | <u>1-4-0</u><br>1-4-0   |  |   |  | ID. INTRODUTINE / PL  | nz+uy90y2l   | -wv∟-rtiC (P3   | עסאנקאיוסיעסט   | ųn∟ow3U                     | 12<br>                   | -11-12<br>-11-12<br>11-12<br>0-1-8 |  |
|  |   | 3x3   | 3 II  |  |   |  |   |  |   |   |                             |                          |                                    |  |
|  | 1-0-0   | 1<br>22<br>0<br>3x3   | 34 2<br>0<br>24 21<br>3 II  | 35<br>   | 3 36<br>20 26   | 4 37   | 5 38 6  | 39 7<br>9<br>29 16   | 40 8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8  | 41 9<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 42<br>42                    | 10                       | 43 11<br>23 0<br>12<br>33<br>3x3 = |  |
|  |   |   |   |  |   |  |   |  |   |   |                             |                          | 1.5x3 =                            |  |
|  |   | $\vdash$  |   |  |   |  | 12-11-12  |  |   |   |                             |                          |                                    |  |
| Scale = 1:30   |   |   |   |  |   |  | 12-11-12  |  |   |   |                             |                          |                                    |  |
| Loading<br>TCLL<br>TCDL<br>BCLL<br>BCDL  |   | (psf)<br>40.0<br>10.0<br>0.0<br>5.0   | <b>Spacing</b><br>Plate Grip I<br>Lumber DC<br>Rep Stress<br>Code   | DOL<br>)L<br>; Incr  | 2-0-0<br>1.00<br>1.00<br>YES<br>IRC2021,  | TPI2014  | CSI<br>TC ()<br>BC ()<br>WB ()<br>Matrix-R  | 0.28 <b>DEF</b><br>0.28 Vert(<br>0.29 Vert(<br>0.05 Horiz  | L<br>LL) I<br>TL) I<br>:(TL) 0.   | in (loc)<br>n/a -<br>n/a -<br>.00 12  | 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: 53 lb    | <b>GRIP</b><br>244/190<br>FT = 20%F, 12% |
| 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.3(<br>2x4 SP No.3(<br>2x4 SP No.3(<br>Structural wo<br>6-0-0 oc purli<br>Rigid ceiling<br>bracing.<br>(size) 12<br>14<br>16<br>18<br>20<br>22<br>Max Uplift 12<br>22<br>Max Grav 12<br>14<br>16<br>18<br>20<br>22<br>24<br>22<br>25<br>24<br>26<br>22<br>27<br>27<br>26<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27 | flat)<br>flat)<br>flat)<br>flat)<br>flat)<br>od shea<br>ns, exc<br>directly<br>=12-11-<br>=12-11-<br>=12-11-<br>=12-11-<br>=12-11-<br>=12-11-<br>=2-34 (LL<br>=263 (L<br>=294 (L<br>=293 (L<br>=293 (L<br>=293 (L | athing directl<br>expt end vert<br>applied or 6-<br>12, 13=12-1<br>12, 15=12-1<br>12, 17=12-1<br>12, 21=12-1<br>12, 21=12-1<br>12, 232), 13=-6<br>C 32), 13=-6<br>C 32), 13=-6<br>C 44), 13=22<br>C 42), 15=22<br>C 40), 17=22<br>C 38), 19=22<br>C 36), 21=22<br>C 34) | y appliec<br>icals.<br>-0-0 oc<br>1-12,<br>1-12,<br>1-12,<br>1-12,<br>1-12,<br>(LC 31),<br>86 (LC 4:<br>93 (LC 3:<br>93 (LC 3:<br>93 (LC 3:<br>93 (LC 3: | 2)<br>3)<br>4)<br>5)<br>d or<br>6)<br>7)<br>8)<br>LO<br>3),<br>1),<br>9),<br>7),<br>5), | Gable requir<br>Truss to be f<br>braced again<br>Gable studs<br>Provide mec<br>bearing plate<br>22, 34 lb upli<br>This truss ha<br>load of 250.0<br>panels and a<br>Bottom Chor<br>Recommend<br>10-00-00 oc<br>(0.131" X 3")<br>at their outer<br>CAUTION, D<br>AD CASE(S) | es continuous bottom<br>ully sheathed from on<br>ist lateral movement (<br>spaced at 1-4-0 oc.<br>hanical connection (b<br>capable of withstanc<br>ft at joint 12 and 6 lb<br>is been designed for a<br>lb live and 3.0lb dead<br>t all panel points alon<br>d, nonconcurrent with<br>2x6 strongbacks, on<br>and fastened to each<br>nails. Strongbacks t<br>ends or restrained by<br>to not erect truss back<br>Standard | chord bear<br>le face or so<br>(i.e. diagonal<br>y others) of<br>ling 13 lb u<br>uplift at join<br>a moving cc<br>d located at<br>g the Top C<br>edge, spac<br>truss with 3<br>o be attach<br>y other mea<br>kwards. | ing.<br>ecurely<br>al web).<br>truss to<br>blift at joint<br>t 13.<br>nocentrated<br>all mid<br>Chord and<br>live loads.<br>red at<br>3-10d<br>ed to walls<br>ns. |   |                             |                          |                                    | 11100.                                   |
| FORCES   | (lb) - Maximu<br>Tension  | m Com   | pression/Ma   | ximum  |   |  |   |  |   |   |                             |                          | "TH C                              | ARO                                      |
| TOP CHORD  | 1-22=-263/20<br>2-3=-28/6, 3-   | ), 11-12<br>4=-28/6   | =-253/41, 1-<br>, 4-5=-28/6.  | 2=-28/6,<br>5-6=-28/   | 6,  |  |   |  |   |   | n.                          | i v                      | 0 JES                              | Milling"                                 |
| BOT CHORD  | 6-7=-28/6, 7-<br>10-11=-28/6<br>21-22=-6/28,<br>18-19=-6/28,<br>15-16=-6/28,<br>12-13=-6/28<br>2-21=-277/7.   | 20-21=<br>17-18=<br>14-15=<br>3-20=-2   | -6/28, 19-20<br>-6/28, 19-20<br>-6/28, 16-17<br>-6/28, 13-14<br>278/5, 4-19=  | 9-10=-28<br>=-6/28,<br>=-6/28,<br>=-6/28,<br>-278/5,   | 3/6,  |  |   |  |   |   | . Thurner                   |                          | SE<br>286                          | AL<br>577                                |
|  | 5-18=-278/5,<br>8-15=-278/5,  | 6-17=-2<br>9-14=-2  | 278/5, 7-16=<br>279/4, 10-13  | -278/5,<br>=-271/16  | ;   |  |   |  |   |   |                             | 11,                      | OL NGI                             | VEEP.Stin                                |
| <ol> <li>All plates a indicated.</li> </ol>  | are 1.5x3 (  ) M  | T20 un  | less otherwis   | se   |   |  |   |  |   |   |                             |                          | L.C.                               | GALINIII<br>July 2,2025                  |

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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

RENCO

| Job         | Truss | Truss Type            | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|-----------------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1FGE3 | Floor Supported Gable | 4   | 1   | Job Reference (optional)      | 174582453 |

# Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:27 ID:aWLQ?JvAhs2cjFE7sIOGTmzGwwM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:22.4

| Loading<br>TCLL<br>TCDL   |  | (psf)<br>40.0<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL   | 1-4-0<br>1.00<br>1.00   |   | CSI<br>TC<br>BC   | 0.32<br>0.31  | DEFL<br>Vert(LL)<br>Vert(TL)   | in<br>n/a<br>n/a                          | (loc)<br>-<br>- | l/defl<br>n/a<br>n/a | L/d<br>999<br>999 | PLATES<br>MT20          | <b>GRIP</b><br>244/190 |
|---|--|---|---|---|---|---|---|--|---|-----------------|----------------------|-------------------|-------------------------|------------------------|
| BCDL  |  | 0.0<br>5.0  | Code  | NO<br>IRC202  | 1/TPI2014   | WB<br>Matrix-R  | 0.15  | Horiz(TL)  | 0.00                                      | 8               | n/a                  | n/a               | Weight: 31 lb           | FT = 20%F, 12%E        |
| LUMBER  |  |   |   | 6)  | Load case(s)  | 1 has/have been   | modified  | d. Building  |   |                 |                      |                   | -                       |                        |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS  | 2x4 SP N<br>2x4 SP N<br>2x4 SP N<br>2x4 SP N<br>Structura<br>6-0-0 oc<br>Rigid ceil<br>bracing.<br>(size)<br>Max Uplift<br>Max Grav        | lo.2(flat)<br>lo.2(flat)<br>lo.3(flat)<br>lo.3(flat)<br>lwood shee<br>purlins, exi<br>ing directly<br>8=7-1-12,<br>11=7-1-12<br>14=7-1-12<br>14=7-1-12<br>12=-3 (LC<br>12=-3 (LC<br>10=288 (L<br>12=281 (L<br>14=268 (L | athing directly applie<br>cept end verticals.<br>applied or 6-0-0 oc<br>9=7-1-12, 10=7-1-12<br>2, 12=7-1-12, 13=7-1<br>2<br>C 20), 11=-8 (LC 17)<br>(19), 13=-12 (LC 18)<br>C 17)<br>C 28), 9=833 (LC 20)<br>C 26), 11=277 (LC 2<br>C 24), 13=275 (LC 2 | 5)<br>7)<br>8d or 8)<br>2, L0<br>1-12, L1<br>),<br>),<br>),<br>25),<br>23), | bad case(s)<br>designer mus<br>for the intend<br>This truss ha<br>load of 250.0<br>panels and a<br>Bottom Chor<br>Recommend<br>10-00-00 oc<br>(0.131" X 3")<br>at their outer<br><b>DAD CASE(S)</b><br>Dead + Flor<br>Plate Increa<br>Uniform Loa<br>Vert: 8-1.<br>Concentrate<br>Vert: 6=- | st review loads to v<br>led use of this trus<br>is been designed f<br>lb live and 3.0lb di<br>t all panel points a<br>d, nonconcurrent v<br>2x6 strongbacks,<br>and fastened to ea<br>nails. Strongbacks<br>ends or restrained<br>Standard<br>or Live (balanced):<br>ase=1.00<br>ads (lb/ft)<br>4=-7, 1-7=-67<br>ed Loads (lb)<br>576 | verify that<br>s.<br>or a move<br>ead loca-<br>long the<br>with any<br>on edge<br>ach trusses<br>to be<br>d by othe | J. Building<br>at they are co<br>ving concentra<br>ted at all mid<br>Top Chord a<br>other live load<br>other live load<br>s with 3-10d<br>attached to w<br>er means. | rrect<br>ated<br>nd<br>ds.<br>alls<br>00, |                 |                      |                   |                         |                        |
| FORCES  | (lb) - Max<br>Tension  | kimum Com   | pression/Maximum  |   |   |   |   |  |   |                 |                      |                   |                         |                        |
| TOP CHORD   | 1-14=-26<br>2-3=-40/5<br>6-7=-40/5   | 2/23, 7-8=-:<br>5, 3-4=-40/5<br>5   | 281/85, 1-2=-40/5,<br>5, 4-5=-40/5, 5-6=-40   | )/5,  |   |   |   |  |   |                 |                      |                   | INTH CA                 | ROUL                   |
| BOT CHORD<br>WEBS   | 13-14=-5<br>10-11=-5<br>2-13=-26   | /40, 12-13=<br>/40, 9-10=-<br>6/18, 3-12=   | 5/40, 11-12=-5/40,<br>5/40, 8-9=-5/40<br>270/12, 4-11=-266/   | '16,  |   |   |   |  |   |                 |                      | N. C.             | of the ss               | PAR ST.                |
| NOTES   | 5-10=-27   | 7/6, 6-9=-8   | 07/0  |   |   |   |   |  |   |                 | -                    | 7                 |                         | N 1 2                  |
| <ol> <li>All plates a<br/>indicated.</li> <li>Gable req</li> <li>Truss to b<br/>braced ag</li> <li>Gable stuut</li> <li>Provide m<br/>bearing pli<br/>14, 103 lb<br/>at joint 12</li> </ol> | are 1.5x3 ( <br>uires contin<br>e fully shea<br>ainst latera<br>ds spaced a<br>echanical c<br>ate capable<br>uplift at joir<br>and 8 lb up | ) MT20 un<br>uous bottor<br>thed from c<br>i movement<br>at 1-4-0 oc.<br>connection (<br>e of withstar<br>nt 8, 12 lb u<br>lift at joint 1  | less otherwise<br>m chord bearing.<br>one face or securely<br>t (i.e. diagonal web).<br>(by others) of truss to<br>doing 16 lb uplift at jo<br>plift at joint 13, 3 lb u<br>11.   | o<br>bint<br>uplift   |   |   |   |  |   |                 | CITING.              | J. M. MARTIN      | SEA<br>2867<br>OKN L. G | E.F.P. 64<br>ALMS      |

TRENGINEERING BY A MITTEK Affiliate

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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| Job         | Truss  | Truss Type            | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|--------|-----------------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1FGE2A | Floor Supported Gable | 3   | 1   | Job Reference (optional)      | 174582454 |

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:27 ID:HuuLy6c6LU10qZPWSGyeVizGwwk-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f



- Max Grav 17=259 (LC 62), 18=272 (LC 61), 19=287 (LC 60), 20=254 (LC 59), 22=382 (LC 58), 23=581 (LC 57), 24=237 (LC 56), 25=291 (LC 55), 26=277 (LC 54), 27=280 (LC 55), 28=279 (LC 52), 29=280 (LC 51), 30=280 (LC 50), 31=280 (LC 49),
- 32=263 (LC 48) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-32=-256/24, 16-17=-248/56, 1-2=-28/7,
  - 2-3=-28/7, 3-4=-28/7, 4-5=-28/7, 5-6=-28/7, 6-7=-28/7, 7-8=-28/7, 8-10=-28/7, 10-11=-28/7, 11-12=-28/7, 12-13=-28/7, 13-14=-28/7, 14-15=-28/7, 15-16=-28/7
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 7) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 8) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- LOAD CASE(S) Standard 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 17-32=-7, 1-16=-67
  - Concentrated Loads (lb) Vert: 56=-349



July 2,2025

Page: 1



Edenton, NC 27932

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)

| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1F2A  | Floor      | 15  | 1   | Job Reference (optional)      | 174582455 |



Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:22

Scale = 1:38.4 Plate Offsets (X, Y): [16:0-1-8.Edge]

|   | [10.0-1-0,Luge] |   |
|---|-----------------|---|
| - |                 | 1 |

does not consider lateral forces.

| Loa | ding        |               | (psf)                   | Spacing                   | 1-4-0             |                          | CSI                                    |                     | DEFL                           | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |
|-----|-------------|---------------|-------------------------|---------------------------|-------------------|--------------------------|--|---------------------|--------------------------------|-------|-------|--------|-----|---------------|-----------------|
| TCL | .L          |               | 40.0                    | Plate Grip DOL            | 1.00              |                          | тс                                     | 0.76                | Vert(LL)                       | -0.16 | 22-23 | >999   | 480 | MT20          | 244/190         |
| TCC | DL          |               | 10.0                    | Lumber DOL                | 1.00              |                          | BC                                     | 0.94                | Vert(CT)                       | -0.19 | 22-23 | >841   | 360 |               |                 |
| BCL | L.          |               | 0.0                     | Rep Stress Incr           | YES               |                          | WB                                     | 0.41                | Horz(CT)                       | 0.02  | 17    | n/a    | n/a |               |                 |
| BCD | DL          |               | 5.0                     | Code                      | IRC2021           | /TPI2014                 | Matrix-S                               |                     |                                |       |       |        |     | Weight: 90 lb | FT = 20%F, 12%E |
|     |             |               |                         |                           | 2)                |                          | 1 hoo/hovo hoon                        | modifie             | . Duilding                     |       |       |        |     |               |                 |
| LUN |             |               | • ○/(I =+) *□           | weents 7 40.0v4 CD C      | 3)                | designer mu              | t review loads to v                    | orify the           | a. Duiluiriy<br>at they are co | rroct |       |        |     |               |                 |
| TOP | CHORD       | (flat)        | 0.2(flat) "E            | xcept" 7-13:2x4 SP S      | 5                 | for the intend           | led use of this truss                  | eniy un<br>S.       | at they are co                 | meci  |       |        |     |               |                 |
| BOT | r chord     | 2x4 SP No     | o.2(flat)               |                           | 4)                | This truss ha            | s been designed fo                     | or a mov            | ing concentr/                  | ated  |       |        |     |               |                 |
| WE  | BS          | 2x4 SP No     | o.3(flat)               |                           |                   | load of 250.0            | lb live and 3.0lb de                   | ad loca             | ted at all mid                 |       |       |        |     |               |                 |
| OTH | IERS        | 2x4 SP No     | o.3(flat)               |                           |                   | panels and a             | t all panel points al                  | ong the             | Top Chord a                    | and   |       |        |     |               |                 |
| BRA | ACING       |               |                         |                           | -                 | Bottom Chor              | d, nonconcurrent w                     | ith any             | other live loa                 | ids.  |       |        |     |               |                 |
| TOF | P CHORD     | Structural    | wood she                | athing directly applied   | dor <sup>5)</sup> | Recommend<br>10-00-00 oc | 2x6 strongbacks, of and fastened to ea | on edge<br>ch truss | with 3-10d                     |       |       |        |     |               |                 |
| вот | CHORD       | Rigid ceili   | ing directly            | applied or 2-2-0 oc       |                   | (0.131" X 3")            | nails. Strongback                      | s to be             | attached to w                  | alls  |       |        |     |               |                 |
|     |             | bracing.      |                         |                           |                   | at their outer           | ends or restrained                     | by othe             | er means.                      |       |       |        |     |               |                 |
| REA | ACTIONS     | (size)        | 14=0-3-8                | , 17=0-4-8, 24=0-3-8      | 6)                | CAUTION, D               | o not erect truss ba                   | аскwаго             | IS.                            |       |       |        |     |               |                 |
|     |             | Max Uplift    | 14=-198 (               | (LC 43)                   | LC                | AD CASE(S)               | Standard                               |                     |                                |       |       |        |     |               |                 |
|     |             | Max Grav      | 14=176 (I               | LC 58), 17=1676 (LC       | 1), 1)            | Dead + Floo              | or Live (balanced):                    | Lumbe               | Increase=1.                    | 00,   |       |        |     |               |                 |
|     |             |               | 24=426 (I               | LC 3)                     | ,,                | Plate Increa             | ise=1.00                               |                     |                                |       |       |        |     |               |                 |
| FOR | RCES        | (lb) - Max    | imum Corr               | npression/Maximum         |                   | Vort: 14-                | aus (10/11)<br>247 1-1367              |                     |                                |       |       |        |     |               |                 |
|     |             | Tension       |                         |                           |                   | Concentrate              | 24-7, 1-13-07                          |                     |                                |       |       |        |     |               |                 |
| TOF | P CHORD     | 1-24=-258     | 3/37, 13-14             | 4=-278/2, 1-2=-18/3,      |                   | Vert: 41=                | -716                                   |                     |                                |       |       |        |     |               |                 |
|     |             | 2-3=-976/     | 0, 3-4=-14<br>1/0 6 9 7 | 404/0, 4-3=-1404/0,       |                   |                          |  |                     |                                |       |       |        |     |               |                 |
|     |             | 5-6=-1404     | +/0, 0-8=-7             | 01/0, 8-9=0/1232,         | 120               |                          |  |                     |                                |       |       |        |     |               |                 |
|     |             | 12-1320       | 220, 10-11<br>)/0       | =-12/439, 11-12=-12/-     | 439,              |                          |  |                     |                                |       |       |        |     |               | 175 A.C.        |
| BOT |             | 23-24=0/6     | 523 22-23               | =0/1293 21-22=0/140       | 14                |                          |  |                     |                                |       |       |        |     |               |                 |
| 501 | ONORD       | 20-21=0/1     | 1118 19-2               | 0 = -5/507 17-19=-5/50    | 07                |                          |  |                     |                                |       |       |        |     | WTH CA        | Roil            |
|     |             | 16-17=-96     | 56/0. 15-16             | 6=-439/72, 14-15=-43      | 9/72              |                          |  |                     |                                |       |       |        | N   | Rich          | 1. 1. 1.        |
| WE  | BS          | 4-22=-171     | 1/97. 5-21=             | =-229/50. 9-17=-842/0     | ).                |                          |  |                     |                                |       |       |        | 1   |               | ON VIL          |
|     |             | 2-24=-736     | 5/0, 2-23=0             | 0/511, 3-23=-399/0,       | ,                 |                          |  |                     |                                |       |       |        | 52  | 4/1           | Mary -          |
|     |             | 3-22=-187     | 7/319, 8-20             | 0=0/593, 6-20=-445/18     | 8,                |                          |  |                     |                                |       |       | 2      |     | pr -          |                 |
|     |             | 6-21=-95/     | 454, 8-19=              | -80/244, 8-17=-1716/      | /0,               |                          |  |                     |                                |       |       |        |     | SEV.          | 1 1 5           |
|     |             | 10-17=-44     | 47/0, 12-14             | 4=-84/517, 10-16=0/68     | 85,               |                          |  |                     |                                |       |       | =      | :   | SLA           | - : =           |
|     |             | 11-16=-29     | 94/0, 12-15             | 5=-104/175                |                   |                          |  |                     |                                |       |       | =      | :   | 2867          | 7 : 2           |
| NOT | TES         |               |                         |                           |                   |                          |  |                     |                                |       |       |        |     |               | 1 5             |
| 1)  | Unbalance   | ed floor live | loads have              | e been considered for     |                   |                          |  |                     |                                |       |       |        | -   | N             | 1 1 E           |
|     | this design | ı.            |                         |                           |                   |                          |  |                     |                                |       |       |        | 10  | S.S.Now       | FRILI           |
| 2)  | One H2.5A   | A Simpson S   | Strong-Tie              | connectors                |                   |                          |  |                     |                                |       |       |        | 11  | GIN           | S. S.           |
|     | recommen    | ided to conr  | nect truss t            | to bearing walls due to   | C                 |                          |  |                     |                                |       |       |        | 1   | NI C          | AL IN IN        |
|     | UPLIFT at   | jt(s) 14. Th  | is connect              | ion is for uplift only an | d                 |                          |  |                     |                                |       |       |        |     | 1, 2.6        | AL IIII         |
|     | does not c  | onsider late  | ral forces.             |                           |                   |                          |  |                     |                                |       |       |        |     |               | III.            |

July 2,2025

Page: 1



| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1F3   | Floor      | 3   | 1   | Job Reference (optional)      | 174582456 |

# Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:22 ID:qg4n\_Lnerg82PEf\_u?OdqEzGwZH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



18-2-0

Scale = 1:51

|  |   |   | i  |                            |   |  |  |  |                           |       |        |       |               |                 |
|--|---|---|--|----------------------------|---|--|--|--|---------------------------|-------|--------|-------|---------------|-----------------|
| Loading                                |   | (psf)   | Spacing  | 1-4-0                      |   | CSI  |  | DEFL   | in                        | (loc) | l/defl | L/d   | PLATES        | GRIP            |
| TCLL                                   |   | 40.0  | Plate Grip DOL   | 1.00                       |   | TC   | 0.79   | Vert(LL)   | -0.16                     | 23-24 | >999   | 480   | MT20          | 244/190         |
| TCDL                                   |   | 10.0  | Lumber DOL   | 1.00                       |   | BC   | 0.94   | Vert(CT)   | -0.19                     | 23-24 | >840   | 360   |               |                 |
| BCLL                                   |   | 0.0   | Rep Stress Incr  | YES                        |   | WB   | 0.72   | Horz(CT)   | 0.02                      | 18    | n/a    | n/a   |               |                 |
| BCDL                                   |   | 5.0   | Code   | IRC2021                    | /TPI2014  | Matrix-S   |  |  |                           |       |        |       | Weight: 88 lb | FT = 20%F, 12%E |
|  |   |   |  | 2)                         |   |  |  |  |                           |       |        |       |               |                 |
| TOP CHORD                              | 2x4 SP N<br>(flat)  | o.2(flat) *E  | xcept* 7-13:2x4 SP S   | 3)<br>SS<br>4)             | braced again<br>Gable studs   | st lateral movemer   | nt (i.e. d   | liagonal web)  | /<br>).                   |       |        |       |               |                 |
| BOT CHORD<br>WEBS<br>OTHERS<br>BRACING | 2x4 SP N<br>2x4 SP N<br>2x4 SP N<br>2x4 SP N                              | o.2(flat)<br>o.3(flat)<br>o.3(flat)   |  | 5)<br>6)                   | Provide mech<br>bearing plate<br>17.<br>N/A   | nanical connection capable of withsta  | (by oth<br>anding 9  | ers) of truss<br>946 lb uplift a   | to<br>t joint             |       |        |       |               |                 |
| TOP CHORD                              | Structural<br>6-0-0 oc p  | l wood shea<br>ourlins, exe   | athing directly applied<br>cept end verticals.   | d or                       |   |  |  |  |                           |       |        |       |               |                 |
| BOT CHORD                              | Rigid ceili<br>bracing.   | ing directly  | applied or 2-2-0 oc  | 7)                         | Load case(s)  | 1 has/have been i  | modified   | d. Building  | orroct                    |       |        |       |               |                 |
| REACTIONS                              | (size)<br>Max Uplift<br>Max Grav  | 14=3-7-8,<br>17=3-7-8,<br>14=-32 (L<br>17=-946 (<br>14=262 (L<br>16=334 (L<br>18=2228 ( | 15=3-7-8, 16=3-7-8,<br>18=0-4-8, 25=0-3-8<br>C 17), 15=-22 (LC 38<br>LC 35)<br>LC 52), 15=263 (LC 5<br>LC 50), 17=-246 (LC -<br>C 50), 17=-246 (LC - | 9), 8)<br>(1),<br>(49), 9) | for the intend<br>This truss ha<br>load of 250.0<br>panels and a<br>Bottom Chore<br>Recommend | led use of this truss<br>is been designed for<br>lb live and 3.0lb de<br>t all panel points al<br>d, nonconcurrent w<br>2x6 strongbacks, | s.<br>or a move<br>ad locations the<br>long the<br>vith any<br>on edge | ving concentrated at all mice<br>Top Chord a<br>other live loa<br>e, spaced at | rated<br>d<br>and<br>ads. |       |        |       |               |                 |
| FORCES                                 | (lb) - Max<br>Tension   | imum Com  | pression/Maximum   | ''                         | 10-00-00 oc a<br>(0.131" X 3")  | and fastened to ea nails. Strongback   | ch truss<br>s to be  | s with 3-10d<br>attached to v  | valls                     |       |        |       |               |                 |
| TOP CHORD                              | 1-25=-258<br>2-3=-955/<br>5-6=-135<br>9-10=-18/<br>12-13=-18              | 8/37, 13-14<br>/0, 3-4=-13<br>1/0, 6-8=-6<br>/2, 10-11=-<br>8/2                         | 4=-259/34, 1-2=-18/3,<br>51/0, 4-5=-1351/0,<br>77/0, 8-9=0/1321,<br>18/2, 11-12=-18/2,   | 10)<br><b>LO</b><br>1)     | AT THEIR OUTER<br>CAUTION, D<br>AD CASE(S)<br>Dead + Floo<br>Plate Increa                     | o not erect truss b<br>Standard<br>or Live (balanced):<br>use=1.00   | ackward  | er means.<br>ds.<br>r Increase=1.  | .00,                      |       |        |       |               | Della           |
| BOT CHORD                              | 24-25=0/6<br>21-22=0/<br>18-20=-10<br>16-17=-2/                           | 611, 23-24=<br>1045, 20-21<br>04/476, 17-<br>(18, 15-16=                                | =0/1260, 22-23=0/13<br>1=-104/476,<br>-18=-1321/0,<br>-2/18, 14-15=-2/18   | 51,                        | Uniform Loa<br>Vert: 14-2<br>Concentrate<br>Vert: 43=   | ads (lb/ft)<br>25=-7, 1-13=-67<br>ed Loads (lb)<br>-733  |  |  |                           |       |        | and a | A Star        | A strain        |
| WEBS                                   | 4-23=-165<br>10-17=-10<br>2-24=0/50<br>8-21=0/67<br>11-16=-3<br>8-18=-175 | 5/100, 5-22<br>06/201, 9-1<br>07, 3-24=-3<br>10, 6-21=-4<br>19/0, 12-15<br>37/0         | 2=-236/42, 9-18=-144<br>7=0/1529, 2-25=-723<br>393/6, 3-23=-197/302<br>450/10, 6-22=-75/472<br>5=-253/29, 8-20=-93/2                                 | 4/0,<br>3/0,<br>,<br>234,  |   |  |  |  |                           |       | THINK  |       | SEA<br>2867   | L 77            |
| NOTES                                  |   |   |  |                            |   |  |  |  |                           |       |        | -,4   | O. SNGINI     | EERIA           |
| 1) Unbalance<br>this design            | ed floor live<br>n.   | loads have  | been considered for  |                            |   |  |  |  |                           |       |        | 11    | NLG           | ALINS           |
| 2) All plates                          | are 1.5x3 (   | ) MT20 un   | less otherwise   |                            |   |  |  |  |                           |       |        |       | "IIIIII       | mm              |

2) e 1.5x3 (||) MT20 unless otherwise indicated.

July 2,2025

Page: 1



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 BCEL Building Component Science Use Component Categories (http://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 | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1F4   | Floor      | 6   | 1   | Job Reference (optional)      | 174582457 |

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:22 ID:Gy1BIVt96pxVgpNEWq\_CLjzGwWa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 0-1-8 0-1-8 Н Н 2-0-0 1-3-8 1-3-0 1-8-0 1.5x3 u 1.5x3 u 3x3 = 1.5x3 u 3x6 = 3x3 = 1.5x3 u 3x3 = 4x6 = 9 1 2 3 7 27 28 29 4 30 5 31 6 32 33 8 34 0-3-9 择 19 1-0-0 2 9 Ŷ TR-0 Ř  $\mathbb{R}$  $\mathbb{R}$ 20 16 23 13 24 25 26 21 15 22 14 12 11 3x3 = 3x3 = 1.5x3 🛚 4x6 = 3x3 = 3x3 = 3x6 = 1.5x3 = 1.5x3 = 3x6 = 7-4-8 6-4-8 5-4-8 13-2-0 14-10-0 5-4-8 5-9-8 1-8-0 1-0-0 1-0-0 <u>14-1</u>0-0

Scale = 1:38.4

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

| Loading   | (psf)  | Spacing  | 1-4-0  |   | CSI  | 0.00   | DEFL   | in                               | (loc) | l/defl | L/d                                      | PLATES        | GRIP            |          |
|---|--|--|--|---|--|--|--|----------------------------------|-------|--------|--|---------------|-----------------|----------|
| TOLL  | 40.0   | Plate Grip DOL   | 1.00   |   |  | 0.80   | Vert(LL)   | -0.14                            | 15-16 | >999   | 480                                      | WI120         | 244/190         |          |
|   | 10.0   | Lumber DOL   | 1.00   |   | BC   | 0.92   | Ven(CT)  | -0.17                            | 10-10 | >915   | 360                                      |               |                 |          |
|   | 0.0  | Rep Stress Incr  | TEO  |   | VVB  | 0.69   |  | 0.02                             | 11    | n/a    | n/a                                      |               | ET 000/E 400    | / F      |
| BCDL  | 5.0  | Code   | IRC2021  | 1912014   | Matrix-5   |  |  |                                  |       |        |  | weight: 73 lb | FI = 20% F, 12% | ٥E       |
| BCDL<br>LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS<br>FORCES                        | 5.0<br>2x4 SP SS(flat)<br>2x4 SP No.2(flat)<br>2x4 SP No.3(flat)<br>2x4 SP No.3(flat)<br>2x4 SP No.3(flat)<br>Structural wood she<br>6-0-0 oc purlins, ex<br>Rigid ceiling directly<br>bracing.<br>(size) 10=0-3-8,<br>Max Uplift 10=-812 (<br>Max Grav 10=-160 (<br>17=422 (L<br>(lb) - Maximum Com<br>Tension<br>1.17=-288/36 0.10 | Code<br>athing directly applied<br>cept end verticals.<br>applied or 2-2-0 oc<br>11=0-4-8, 17=0-3-8<br>LC 34), 11=2147 (LC<br>LC 44), 11=2147 (LC<br>LC 3)<br>pression/Maximum | IRC2021,<br>4)<br>5)<br>d or<br>6)<br>LO,<br>1)<br>; 1), | TPI2014<br>This truss ha<br>load of 250.0<br>panels and a<br>Bottom Chorn<br>Recommend<br>10-00-00 oc :<br>(0.131" X 3")<br>at their outer<br>CAUTION, D<br>AD CASE(S)<br>Dead + Floor<br>Plate Increa<br>Uniform Loa<br>Vert: 10- <sup>-</sup><br>Concentrate<br>Vert: 33= | Matrix-S<br>s been designed fo<br>lb live and 3.0lb de<br>t all panel points alid,<br>nonconcurrent w<br>2x6 strongbacks, c<br>and fastened to eac<br>nails. Strongbacks<br>ends or restrained<br>o not erect truss bas<br>Standard<br>or Live (balanced):<br>ise=1.00<br>ads (lb/ft)<br>17=-7, 1-9=-67<br>ed Loads (lb)<br>-733 | r a mov<br>ad loca<br>ong the<br>ith any<br>on edge<br>ch truss<br>s to be<br>by othe<br>ackward | ving concentra<br>ted at all mid<br>Top Chord a<br>other live load<br>, spaced at<br>with 3-10d<br>attached to w<br>er means.<br>Is. | ated<br>nd<br>ds.<br>alls<br>00, |       |        |  | Weight: 73 lb | FT = 20%F, 12%  | <u>5</u> |
| BOT CHORD   | 2-3=-964/0, 3-4=-13<br>5-6=-1375/0, 6-7=-7<br>8-9=-12/8<br>16-17=0/616, 15-16  | -17/1713, 1-2=-18/3,<br>75/0, 4-5=-1375/0,<br>17/0, 7-8=0/1263,<br>=0/1276, 14-15=0/13   | 75,  |   |  |  |  |                                  |       |        |  |               |                 |          |
|   | 13-14=0/1075, 12-13  | 3=-38/482,<br>1- 1262/0  |  |   |  |  |  |                                  |       |        |  | minin         | 11111           |          |
| WEBS  | 4-15=-167/111, 5-14<br>8-10=0/1445, 2-17=-<br>3-16=-399/2, 3-15=-<br>6-13=-439/19, 6-14=<br>7-11=-1744/0   | 120/0<br>237/49, 8-11=-136<br>-728/0, 2-16=0/507,<br>194/310, 7-13=0/595<br>88/468, 7-12=-91/23  | 7/0,<br>,<br>35,   |   |  |  |  |                                  |       |        | A.C.                                     | ORTH CA       | ROVINA          | -        |
| NOTES   |  |  |  |   |  |  |  |                                  |       |        |  | SEA           | L 1 1           | 1        |
| <ol> <li>Unbalanc<br/>this desig</li> <li>Provide m<br/>bearing pi<br/>10.</li> <li>Load case<br/>designer n<br/>for the interview</li> </ol> | ed floor live loads have<br>n.<br>hechanical connection (<br>late capable of withstar<br>e(s) 1 has/have been m<br>must review loads to ve<br>ended use of this truss.   | been considered for<br>by others) of truss to<br>ding 812 lb uplift at j<br>nodified. Building<br>rify that they are con   | oint   |   |  |  |  |                                  |       | 11111  | S. S | 2867          | F.P. ALING      |          |

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 **ANSUTP11 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)

July 2,2025

Page: 1



| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1F5A  | Floor      | 3   | 1   | Job Reference (optional)      | 174582458 |

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:23 ID:\_QZxRho4bzUzoy0V579edxzGwFu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 0-1-8 0-1-8 1-0-8 H 2-0-0 1-3-0 1-8-0 1.5x3 u 1.5x3 II 3x3 = 1.5x3 II 3x6 = 3x4 = 1.5x3 u 3x3 II 3x3 = 1.5x3 🛚 3x3 = 10 35 1 31 2 32 3 33 4 34 5 6 36 7 37 8 38 9 39 0-3-9 20 12 23 24 25 段 18 17 16 26 15 27 14 28 29 12 30 3x3 = 3x3 = 1.5x3 II 3x3 = 3x3 = 3x6 = MT20HS 3x8 = 1.5x3 = 3x6 = 1.5x3 u 1.5x3 =

7-4-8



1-0-0 15-10-0

Scale = 1:40.7

| Loading<br>TCLL<br>TCDL<br>BCLL<br>BCDL  |   | (psf)<br>40.0<br>10.0<br>0.0<br>5.0   | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 1-4-0<br>1.00<br>1.00<br>NO<br>IRC202 | 21/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-S  | 0.94<br>0.48<br>0.38  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.13<br>-0.16<br>0.01            | (loc)<br>17-18<br>17-18<br>13 | l/defl<br>>999<br>>964<br>n/a | L/d<br>480<br>360<br>n/a | PLATES<br>MT20<br>MT20HS<br>Weight: 79 lb | <b>GRIP</b><br>244/190<br>187/143<br>FT = 20%F, 12%E |
|--|---|---|---|---------------------------------------|--|--|---|--|---|-------------------------------|-------------------------------|--------------------------|---|--|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS | 2x4 SP No<br>2x4 SP SS<br>2x4 SP No<br>2x4 SP No<br>Structural 1<br>6-0-0 oc pr<br>Rigid ceilin<br>bracing.<br>(size)<br>Max Uplift<br>Max Grav | .2(flat)<br>(flat)<br>.3(flat)<br>.3(flat)<br>wood shea<br>urlins, exit<br>ng directly<br>11=1-3-8,<br>19=0-3-8<br>11=-294 (l | athing directly applied<br>cept end verticals.<br>applied or 6-0-0 oc<br>12=1-3-8, 13=0-4-8,<br>LC 12), 12=-165 (LC<br>C 44) 12=198 (I C 4: | 5<br>6<br>1 or 7<br>8<br>31)<br>3)    | <ul> <li>N/A</li> <li>Load case(s)<br/>designer mut<br/>for the intend</li> <li>This truss ha<br/>load of 250.0<br/>panels and a<br/>Bottom Chor</li> <li>Recommend<br/>10-00-00 oc<br/>(0.131" X 3")</li> </ul> | ) 1 has/have bee<br>st review loads to<br>ded use of this tru-<br>is been designed<br>blb live and 3.0lb<br>it all panel points<br>d, nonconcurren<br>2x6 strongback<br>and fastened to<br>nails. Strongba | en modified<br>o verify tha<br>uss.<br>d for a mov<br>dead loca<br>s along the<br>t with any<br>s, on edge<br>each truss<br>locks to be | d. Building<br>at they are co<br>ving concentri<br>ted at all mic<br>Top Chord a<br>other live loa<br>, spaced at<br>with 3-10d<br>attached to w | prrect<br>rated<br>and<br>ads.<br>valls |                               |                               |                          |   |  |
| FORCES   | (lb) - Maxir<br>Tension<br>1-19=-258/   | 13=1337 (<br>mum Com<br>/37, 10-11  | (LC 1), 19=408 (LC 3)<br>pression/Maximum<br>=-269/0, 1-2=-18/3,  | ) 9<br>L<br>1                         | at their outer<br>CAUTION, D<br>OAD CASE(S)<br>Dead + Flor<br>Plate Increa   | ends or restrain<br>to not erect truss<br>Standard<br>or Live (balanced<br>ase=1.00  | d by othe<br>backward<br>d): Lumber   | er means.<br>ls.<br>r Increase=1.  | .00,                                    |                               |                               |                          |   |  |
| BOT CHORD  | 2-3=-926/0<br>5-6=-1274/<br>8-9=0/1114<br>18-19=0/59<br>15-16=0/96  | ), 3-4=-12<br>/0, 6-7=-53<br>4, 9-10=-1<br>96, 17-18=<br>62, 14-15=   | 74/0, 4-5=-1274/0,<br>35/0, 7-8=0/1120,<br>9/0<br>=0/1211, 16-17=0/127<br>=-295/306,  | 74,                                   | Uniform Los<br>Vert: 11-<br>Concentrate<br>Vert: 37=   | ads (lb/ft)<br>19=-7, 1-10=-67<br>ed Loads (lb)<br>234   |   |  |   |                               |                               |                          |   |  |
| WEBS   | 13-14=-29<br>4-17=-158<br>9-22=0/720<br>2-19=-704/<br>3-17=-225/<br>6-16=-72/4<br>12-22=-1/1  | 5/306, 12-<br>/100, 5-16<br>0, 11-22=(<br>/0, 2-18=0<br>/270, 7-15<br>I80, 7-14=<br>I51                                       | 13=-545/0, 11-12=-54<br>=-229/47, 8-13=-468/<br>0/632, 9-13=-740/0,<br>/493, 3-18=-369/26,<br>=0/668, 6-15=-522/0,<br>-87/241, 7-13=-1297/  | 45/0<br>/0,<br>/0,                    |  |  |   |  |   |                               |                               | New York                 | OP HAS                                    | ROUNA  |
| NOTES  |   |   |   |                                       |  |  |   |  |   |                               |                               |                          | SEA                                       | L <u>1</u>   |
| 1) Unbalance<br>this design  | ed floor live lo<br>n.  | oads have   | been considered for   |                                       |  |  |   |  |   |                               |                               |                          | 2867                                      | 77   |
|  |   |   |   |                                       |  |  |   |  |   |                               |                               |                          |   |  |

#### N

- All plates are MT20 plates unless otherwise indicated. 2)
- Truss to be fully sheathed from one face or securely 3)
- braced against lateral movement (i.e. diagonal web). 4) Gable studs spaced at 2-0-0 oc.



July 2,2025

Page: 1

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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (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 | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|-----------------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1FGE7 | Floor Supported Gable | 4   | 1   | Job Reference (optional)      | 174582459 |

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:28 ID:ORi?BwkU4s?Kh0VYJA7oOdzBc1R-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f









#### Scale - 1:25.5

| 00010 = 112010   |   |                        |                 |          |      |           |      |       |        |     |              |                 |  |
|--|---|------------------------|-----------------|----------|------|-----------|------|-------|--------|-----|--------------|-----------------|--|
| Loading  | (psf)   | Spacing                | 2-0-0           | CSI      |      | DEFL      | in   | (loc) | l/defl | L/d | PLATES       | GRIP            |  |
| TCLL   | 40.0  | Plate Grip DOL         | 1.00            | TC       | 0.14 | Vert(LL)  | n/a  | -     | n/a    | 999 | MT20         | 244/190         |  |
| TCDL   | 10.0  | Lumber DOL             | 1.00            | BC       | 0.15 | Vert(TL)  | n/a  | -     | n/a    | 999 |              |                 |  |
| BCLL   | 0.0   | Rep Stress Incr        | YES             | WB       | 0.00 | Horiz(TL) | 0.00 | 3     | n/a    | n/a |              |                 |  |
| BCDL   | 5.0   | Code                   | IRC2021/TPI2014 | Matrix-R |      |           |      |       |        |     | Weight: 7 lb | FT = 20%F, 12%E |  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD | 2x4 SP No.2(flat)<br>2x4 SP No.2(flat)<br>2x4 SP No.3(flat)<br>2x4 SP No.3(flat)<br>2x4 SP No.3(flat)<br>Structural wood shea | athing directly applie | d or            |          |      |           |      |       |        |     |              |                 |  |

1-1-8 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3=1-1-8, 4=1-1-8 Max Grav 3=265 (LC 10), 4=265 (LC 9) FORCES (lb) - Maximum Compression/Maximum

Tension 1-4=-252/0, 2-3=-253/0, 1-2=-32/0 TOP CHORD BOT CHORD 3-4=0/32

NOTES

1) Gable requires continuous bottom chord bearing.

Truss to be fully sheathed from one face or securely 2) braced against lateral movement (i.e. diagonal web).

Gable studs spaced at 1-4-0 oc. 3)

- 4) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- Recommend 2x6 strongbacks, on edge, spaced at 5) 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



July 2,2025

Page: 1

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 | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1F9B  | Floor      | 1   | 1   | Job Reference (optional)      | 174582461 |

| Structural, LLC   | , Thurmont, MD - 21788,   |  |   |   |   | Run: 25.20 §   | 5 May 13 202   | 5 Print: 25.2.0   | 0 S May 13 2  | 025 MiTek In   | dustries, Inc      | c. Mon Jun 30 1   | 4:56:24        | Page: 1 |
|---|---|--|---|---|---|--|--|---|---|----------------|--------------------|---|----------------|---------|
|   |   |  |   |   |   | ID:MVTxMLI   | Lp9U8Z4rTrdl   | oDTzGw6D-F  | RfC?PsB70H  | q3NSgPqnL8     | 3w3ulTXbGł         | (WrCDoi7J4zJ  | C?f            |         |
|   | 0-1-8   |  |   |   |   |  |  |   |   |                |                    |   |                |         |
|   | <br>  1-3-0   |  |   | 1 2-(   | <b>D-</b> O I   |  | 1-8-0  |   | 1-0-4   |                | 0-9-0              |   |                |         |
|   |   |  |   | 20  | 50  | MT20HS 3v8   | FP   |   |   |                | <br>3x3            | 3=  |                |         |
|   | 3×  | (3=  |   | 1.5x3 u   |   | 4x4 =  | FF   | F   | 5×10 -  |                | 1.5x3 u            |   |                |         |
|   | 1.5x3 u   |  | 3x3=  |   | 1.5x3 u   |  | 3x6 =  | 3^3 "   | 3×4   | 3x3=           |                    |   | 4×4 - 3×3 II   |         |
|   | - <sup>1</sup> 41 2   | 42   | 3 43  | 4 4   | 4 5 45  | 6 7  | 8 46   | 9 47 <sup>·</sup>   | 10 48 11  | 49 12 50       | 51<br>13 14        | 52  | 15 53 16       |         |
|   |   |  |   | 0   | -   | k –  |  |   |   |                | • •                |   |                |         |
|   | - 29 - 29   |  |   | *   |   |  |  |   |   |                | •                  |   |                |         |
|   | ⊠ 31  | 28   | 32  | 27 3  | 3 26  | 34 25 35   | 5 24 23  | 22 3  | 6 21  | 37             | 20 19              | 39 18   | 40             |         |
|   | 1 5x3 =   | 3x3 =  |   | 3x3 =   | 3x4 =   | 3x4 =  |  | <br>Ev10  | 6x8 =   |                | 3x3 =              | 4x4 =   | 3X6=           |         |
|   | 3x6=  |  |   |   |   |  | 1.5x3 <b>॥</b>   | 5210=   |   |                | 1.5x               | 3 .   |                |         |
|   | 0.00  |  |   |   | 740   |  | MT20HS 3x8   | FP  |   |                |                    |   |                |         |
|   |   |  |   |   | 7-4-8   |  |  |   |   |                |                    |   |                |         |
|   | 0-1-8   | 5-4-8  |   | 6-4-8   | 1 1   | 13-2-0   | )  | I   |   | 2              | 3-2-4              |   | I              |         |
|   |   | 5-3-0  |   |   |   | 5-9-8  | ·  |   |   | 1              | 0-0-4              |   |                |         |
|   | 0-1-8   |  |   | 1-0-0   |   |  |  |   |   |                |                    |   |                |         |
|   |   |  |   |   | 1-0-0   |  | 22.2.4   |   |   |                |                    |   |                |         |
| Scale = 1:45  |   |  |   |   |   |  | 23-2-4   |   |   |                |                    |   |                |         |
| Plate Offsets   | (X, Y): [26:0-1-8,Edge]   | , [29:0-4-8,E  | dge]  |   |   |  |  |   |   |                |                    |   |                |         |
| Loading   | (nsf)   | Spacing  |   | 1.7.3   |   | CSI  |  | DEEL  | in  | (loc) //       | lefi I/d           |   | GRIP           |         |
| TCLL  | 40.0  | Plate Grip D   | DOL   | 1.00  |   | TC   | 0.81   | Vert(LL)  | -0.13   | 27-28 >9       | 99 480             | MT20HS  | 187/143        |         |
| TCDL  | 10.0<br>0.0   | Lumber DO<br>Rep Stress  | )L<br>Incr  | 1.00<br>NO  |   | BC<br>WB   | 0.70<br>0.71   | Vert(CT)  | -0.19   | 20-21 >6<br>17 | 514 360<br>n/a n/a | MT20  | 244/190        |         |
| BCDL  | 5.0   | Code   |   | IRC2021   | /TPI2014  | Matrix-S   | 0.11   | 11012(01)   | 0.02  |                | iva iva            | Weight: 11  | 9 lb FT = 20%  | F, 12%E |
| LUMBER<br>TOP CHORE<br>BOT CHORE<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORE<br>BOT CHORE<br>BOT CHORE<br>BOT CHORE<br>BOT CHORE<br>BOT CHORE<br>WEBS | <ul> <li>2x4 SP SS(flat) *Exc (flat)</li> <li>2x4 SP SS(flat)</li> <li>2x4 SP No.3(flat)</li> <li>3x4 SP No.3(flat)</li> <li>3x4</li></ul> | ept* 7-1:2x4 :<br>athing directly<br>sept end verti<br>applied or 6-(<br>22=0-4-8, 29<br>C 3)<br>pression/Max<br>=-274/25, 1-2<br>2(382, 4-5=-9<br>/1116, 8-9=0,<br>-3320/0, 11-<br>4=-2746/0,<br>6=0/0<br>=-115/1069,<br>26=-785/332,<br>4=-1420/0,<br>1=0/3258, 19-<br>-323/0, 9-22=<br>72/0, 6-26=0,<br>8=0/1042,<br>9=0/389, 2-21<br>-241/207, 3-2<br>0=-905/0, 13-<br>1=0/557, 10-2;<br>-1564/0<br>been conside | SP No.2<br>y applied<br>icals.<br>0-0 oc<br>)=0-3-8<br>70 (LC 1)<br>kimum<br>2=-19/2,<br>y22/382,<br>/2669,<br>12=-341!<br>,<br>-20=0/27<br>=-291/11,<br>/872,<br>9=-690/0<br>27=-519/(<br>-20=0/38<br>21=0/295<br>ered for | 2)<br>3)<br>4)<br>or 5)<br>6)<br>,<br>7)<br>LO<br>1)<br>9/0,<br>46,<br>,<br>3,<br>36, | All plates are<br>Bearing at jo<br>using ANSI/I<br>designer sho<br>Load case(s)<br>designer mus<br>for the intence<br>This truss ha<br>load of 250.0<br>panels and a<br>Bottom Chor<br>Recommend<br>10-00-00 oc<br>(0.131" X 3")<br>at their outer<br>CAUTION, D<br>Dead + Floo<br>Plate Increas<br>Uniform Loa<br>Vert: 17-:<br>Concentrate<br>Vert: 14= | int(s) 29 consi<br>int(s) 29 consi<br>irl(a) 29 consi<br>irl(a) angle to o<br>ould verify capa<br>of the the top<br>st review loads<br>st review loads<br>s been design<br>blow and 3.0<br>t all panel poir<br>d, nonconcurre<br>2x6 strongbar<br>and fastened t<br>nails. Strongbar<br>and fastened t<br>nails. Strongbar<br>and fastened t<br>nails. Strongbar<br>and fastened t<br>nails. Strongbar<br>on to erect tru<br>Standard<br>or Live (balance<br>ase 1.00<br>ads (lb/ft)<br>29=-8, 1-16=-6<br>ed Loads (lb)<br>-29, 11=-1893 | unless other<br>ders parallel<br>grain formula<br>acity of beari-<br>een modified<br>is to verify tha-<br>truss.<br>Hed for a movillo dead loca-<br>ths along the<br>ent with any<br>to each truss<br>backs to be<br>ained by other<br>iss backward<br>acity of the second<br>sed): Lumber<br>30 | wise indica:<br>to grain va<br>a. Building<br>ng surface.<br>J. Building<br>at they are of<br>ving concen-<br>tied at all m<br>Top Chord<br>other live lo<br>a, spaced at<br>s with 3-10d<br>attached to<br>er means.<br>ds.<br>r Increase= | ited.<br>ilue<br>correct<br>hid<br>d and<br>bads.<br>t<br>walls |                |                    | ORTH<br>ORTH<br>S<br>28<br>OF<br>S<br>28<br>OF<br>S<br>28 | EAL<br>BG77    |         |
|   | <b>,</b>  |  |   |   |   |  |  |   |   |                |                    |   | July 2,2025    | 5       |
|   |   |  |   |   |   |  |  |   |   |                |                    |   | , ,== <b>-</b> |         |



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent outlapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| Job         | Truss | Truss Type        | Qty       | Ply | Stonefield Rev 3-Elev 1-Floor                  |           |
|-------------|-------|-------------------|-----------|-----|--|-----------|
| 2412-1161-A | 1F9A  | Floor             | 2         | 1   | Job Reference (optional)                       | 174582462 |
|             | 24700 | D., 05 00 0 M. 10 | OOOF Diat |     | 40 0005 MT-1 1-1-1-1-1-1 1-1 1-1 1-00 44 50 04 |           |

Structural, LLC, Thurmont, MD - 21788

1)

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 bilding 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)



Edenton, NC 27932

| Job                    |                           | Truss                  |                                |                          | Truss 7    | Гуре                             |  | Qty                              | Ply                           | Stonefie   | eld Rev 3-I               | Elev 1-F             | Floor                  |                    |                    | 74500460                       |           |
|------------------------|---------------------------|------------------------|--------------------------------|--------------------------|------------|----------------------------------|--|----------------------------------|-------------------------------|------------|---------------------------|----------------------|------------------------|--------------------|--------------------|--------------------------------|-----------|
| 2412-1161-A            |                           | 1FGE4                  | 4                              |                          | Floor      | Supported C                      | Gable  | 1                                | 1                             | Job Ref    | <u>erence</u> (or         | otional)             |                        |                    |                    | 4382463                        |           |
| Structural, LLC, Thurm | nont, MD - 2              | 21788,                 |                                |                          |            |                                  | Run: 25.20 S May 1   | 3 2025 Print:                    | 25.2.0 S May                  | 13 2025 N  | /iTek Indust              | ries, Inc            | . Mon Jur              | n 30 14:5          | 6:28               | Page: 1                        | 1         |
|                        |                           |                        |                                |                          |            |                                  | ID:_e4PmzMNzDjMf   | xZEXaYxTaz                       | Gwvn-RfC?P                    | sB70Hq3N   | SgPqnL8w3                 | BulTXbG              | KWrCDoi                | i7J4zJC            | ?f                 |                                |           |
|                        |                           |                        |                                |                          |            |                                  |  |                                  |                               |            |                           |                      |                        |                    |                    | 23-0-0                         |           |
|                        | 1-4-                      | -0                     |                                |                          |            |                                  |  |                                  |                               |            |                           |                      |                        |                    |                    | Н                              |           |
|                        | 1-4-                      | -0                     |                                |                          |            |                                  |  |                                  |                               |            |                           |                      |                        |                    |                    | 0-4-0                          |           |
|                        | 0-1-8                     |                        |                                |                          |            |                                  |  |                                  |                               |            |                           |                      |                        |                    |                    | 0-4-0                          |           |
|                        | Н                         |                        |                                |                          |            |                                  |  |                                  |                               |            |                           |                      |                        |                    |                    |                                |           |
|                        |                           |                        |                                |                          |            |                                  |  |                                  |                               |            |                           |                      |                        |                    |                    |                                |           |
|                        |                           |                        |                                |                          |            |                                  |  |                                  |                               |            |                           |                      |                        |                    |                    | 3х3 <b>п</b>                   |           |
|                        | 1                         | 7 2 50                 | 9 2 50                         | 4 60                     | F 61       | 6 62 7                           | MT20HS 3x8 FP  | 11 65 1                          | 0 66 12                       | 14<br>67   | 69 15 0                   | SO 16                | 70 17                  | 7 71               | 10 7               | 20                             |           |
| e0                     |                           | 1 2 30                 | 0 3 39<br>0                    | 4 00 .                   |            | 0 02 7                           |  |                                  | 2 00 15                       | 07         | 00 13 (                   |                      | 10 17                  |                    | 10 72              |                                |           |
| -<br>-<br>0            | 30                        |                        |                                | •                        | •          |                                  |  |                                  |                               |            |                           |                      |                        |                    |                    | 21                             |           |
| _                      |                           |                        |                                |                          |            |                                  |  |                                  |                               |            |                           |                      |                        |                    |                    |                                |           |
|                        | 41                        | 1 38 42                | 2 37 43                        | 36 44 3                  | 5 45       | 34 46 33                         | 47 32 48 31 49   | 30 50 29                         | 9 28 27                       | 51 26      | 52 25 3                   | 53 24                | 54 23                  | 3 55               | 22 5               | <sup>5</sup> 3x6 =             |           |
|                        | 5x4 II                    |                        |                                |                          |            |                                  |  | IVII                             | 2013 330 FF                   |            |                           |                      |                        |                    |                    |                                |           |
|                        | 1.5X3=                    | •                      |                                |                          |            |                                  |  |                                  |                               |            |                           |                      |                        |                    |                    |                                |           |
|                        | ц                         |                        |                                |                          |            |                                  | 23-0   | -0                               |                               |            |                           |                      |                        |                    |                    |                                |           |
|                        | 11                        |                        |                                |                          |            |                                  | 22-10  | 0-8                              |                               |            |                           |                      |                        |                    |                    | I                              |           |
|                        | 0-1-8                     |                        |                                |                          |            |                                  | 23-0   | -0                               |                               |            |                           |                      |                        |                    |                    | I                              |           |
| Scale = 1:42.7         |                           |                        |                                |                          |            |                                  |  |                                  |                               |            |                           |                      |                        |                    |                    |                                |           |
| Loading                |                           | (psf)                  | Spacing                        |                          | 1-4-0      |                                  | CSI  | DEF                              | L                             | in (loo    | c) l/defl                 | L/d                  | PLATE                  | ES                 | GF                 | IP                             |           |
| TCLL                   |                           | 40.0                   | Plate Grip I                   | DOL                      | 1.00       |                                  | TC (   | ).40 Vert(                       | LL) r                         | n/a        | - n/a                     | 999                  | MT20                   | 10                 | 24                 | 4/190                          |           |
| BCLL                   |                           | 0.0                    | Rep Stress                     | Incr                     | 1.00<br>NO |                                  | WB 0   | 0.34 Vert(<br>0.07 Horiz         | rL) r<br>z(TL) 0.             | va<br>00 2 | - n/a<br>1 n/a            | 999<br>n/a           | IVI I 20F              | 15                 | 18                 | //143                          |           |
| BCDL                   |                           | 5.0                    | Code                           |                          | IRC202     | 21/TPI2014                       | Matrix-R   |                                  |                               |            |                           |                      | Weigh                  | t: 91 lb           | FT                 | = 20%F, 129                    | %E        |
|                        |                           | (() ~ ()               |                                |                          | Т          | OP CHORD                         | 1-39=-251/22, 20-21=   | -88/102, 1-                      | 2=-33/4,                      | 8) L       | oad case                  | s) 1 ha              | as/have b              | been m             | odified            | . Building                     | rroct     |
| BOT CHORD 2x4          | 4 SP No.2<br>4 SP No.2    | (flat)                 |                                |                          |            |                                  | 6-7=-33/4, 7-8=-33/4,  | 4-3=-33/4,<br>8-10=-33/4         | ,<br>,                        | f          | or the inte               | nded us              | se of this             | s truss.           | iny uia            | t they are con                 | neci      |
| WEBS 2x4<br>OTHERS 2x4 | 4 SP No.3<br>4 SP No.3    | (flat)                 |                                |                          |            |                                  | 10-11=-33/4, 11-12=-3<br>13-14=-33/4, 14-15=-3                 | 33/4, 12-13<br>33/4, 15-16       | =-33/4,<br>=-33/4,            | 9) T<br>k  | his truss h<br>bad of 250 | nas bee<br>.0lb live | en desigi<br>e and 3.0 | ned for<br>Olb dea | a mov<br>d locat   | ing concentra<br>ed at all mid | ated      |
| BRACING                |                           | ()                     |                                |                          |            |                                  | 16-17=-33/4, 17-18=-3  | 33/4, 18-19                      | =-33/4,                       | p          | anels and                 | at all p             | banel poi              | ints alo           | ng the             | Top Chord a                    | ind<br>de |
| TOP CHORD Stru<br>6-0- | uctural wo<br>)-0 oc purl | ood shea<br>lins, exc  | thing directly<br>ept end vert | / applied (<br>cals.     | or B       | OT CHORD                         | 38-39=-4/33, 37-38=-4  | 4/33, 36-37                      | =-4/33,                       | 10) F      | Recommer                  | nd 2x6 :             | strongba               | acks, or           | n edge             | spaced at                      | us.       |
| BOT CHORD Rig          | gid ceiling               | directly a             | applied or 6-                  | 0-0 oc                   |            |                                  | 35-36=-4/33, 34-35=-4<br>32-33=-4/33, 31-32=-4                 | 1/33, 33-34<br>1/33, 30-31:      | =-4/33,<br>=-4/33,            | 1          | 0-00-00 o<br>0.131" X 3   | c and fa<br>") nails | astened<br>S. Strong   | to eacl<br>backs   | n truss<br>to be a | with 3-10d<br>ittached to wa   | alls      |
| REACTIONS (size)       | acing.<br>e) 21           | I=23-0-0,              | , 22=23-0-0,                   | 23=23-0-                 | 0,         |                                  | 29-30=-4/33, 27-29=-4  | 4/33, 26-27                      | =-4/33,                       | à<br>11) c | t their out               | er ends              | s or restr             | ained b            | y othe             | r means.                       |           |
|                        | 24                        | 1=23-0-0,<br>7=23-0-0  | , 25=23-0-0,                   | 26=23-0-                 | 0,<br>0    |                                  | 22-23=-4/33, 21-22=-4  | 4/33, 23-24<br>4/33              | =-4/33,                       | LOA        | D CASE(S                  | 5) Sta               | indard                 | uss dat            | Kwaru              | 5.                             |           |
|                        | 31                        | =23-0-0,<br>I=23-0-0,  | , 32=23-0-0,                   | 33=23-0-                 | 0, M       | /EBS                             | 2-38=-268/16, 3-37=-2<br>5-35=-269/14, 6-34=-2                 | 269/14, 4-3<br>269/14, 7-3       | 6=-269/14,<br>3=-269/14.      | 1)         | Dead + Fl                 | oor Liv              | e (balan               | ced): L            | umber              | Increase=1.0                   | 00,       |
|                        | 34                        | 1=23-0-0,<br>7=23-0-0, | , 35=23-0-0,<br>, 38=23-0-0,   | 36=23-0-<br>39=23-0-     | 0,<br>0    |                                  | 8-32=-269/13, 10-31=   | -268/15, 11                      | -30=-272/1                    | 1,         | Uniform L                 | oads (I              | lb/ft)                 |                    |                    |                                |           |
| Max                    | Uplift 21                 | I=-6 (LC               | 19), 22=-1 (<br>2 59) 241      | _C 57),                  |            |                                  | 15-25=-248/34, 16-24   | =-321/0, 14<br>=-274/8,          | -20=-410/0                    | ,          | Vert: 2'<br>Concentra     | 1-39=-7<br>ated Lo   | 7, 1-20=-<br>ads (lb)  | ·67                |                    |                                |           |
|                        | 25                        | 5=-26 (LC              | C 57), 29=-1                   | (LC 54),                 |            |                                  | 17-23=-267/17, 18-22<br>19-21=-239/96                          | =-271/12,                        |                               |            | Vert: 6                   | 7=-167               | ()                     |                    |                    |                                |           |
|                        | 30<br>32                  | )=-2 (LC<br>2=-5 (LC   | 11), 31=-6 (<br>51), 33=-6 (   | _C 52),<br>_C 50),       | N          | OTES                             |  |                                  |                               |            |                           |                      |                        |                    |                    |                                |           |
|                        | 34<br>36                  | 1=-6 (LC               | 49), 35=-6 (                   | _C 48),                  | 1)<br>2    | ) All plates a<br>) All plates a | ire MT20 plates unless<br>ire 1.5x3 (  ) MT20_unle             | otherwise in<br>ess otherwis     | ndicated.                     |            |                           |                      |                        |                    |                    |                                |           |
|                        | 38                        | 3=-7 (LC               | 20), 39=-15                    | (LC 5)                   | 2          | indicated.                       |  | abord boor                       | ina                           |            |                           |                      |                        |                    | 1111               | 11.                            |           |
| Max                    | Grav 21 23                | 1=268 (L0<br>3=278 (L0 | C 77), 22=28<br>C 75), 24=28   | 32 (LC 76)<br>35 (LC 74) | , 3<br>, 4 | ) Truss to be                    | e fully sheathed from on                                       | e face or se                     | ecurely                       |            |                           |                      | "at                    | HC                 | AR                 | Di ye                          |           |
|                        | 25                        | 5=259 (L(              | C 73), 26=42                   | 21 (LC 72)               | ,<br>5     | braced aga<br>Gable stud         | ainst lateral movement (                                       | i.e. diagona                     | al web).                      |            |                           | 1                    | 0                      | 150                | Sid                | Min.                           |           |
|                        | 30                        | =332 (L0<br>)=283 (L0  | C 69), 31=27                   | '9 (LC 68)               | , 6        | ) Bearing at                     | joint(s) 39 considers pa                                       | rallel to gra                    | in value                      |            |                           | 1                    | 61                     | 1                  | Ú                  | 2.                             | -         |
|                        | 32<br>34                  | 2=280 (L0<br>4=280 (L0 | C 67), 33=28<br>C 65), 35=28   | 80 (LC 66)<br>80 (LC 64) | ),<br>),   | using ANS<br>designer sl         | hould verify capacity of                                       | mula. Bui<br>bearing sur         | iung<br>face.                 |            |                           |                      |                        | SE                 | AL                 | 1                              | 1         |
|                        | 36                        | 6=280 (L0              | C 63), 37=28                   | 30 (LC 62)               | , 7        | ) Provide me                     | echanical connection (b  | y others) of<br>ling 15 lb ur    | truss to                      |            | -                         |                      |                        | 286                | 77                 |                                | Ξ         |
| FORCES (lb)            | 38<br>Maximu - (          | um Comp                | oression/Ma                    | imum (۱۵۵ مېر            | ,          | 39, 6 lb up                      | lift at joint 21, 7 lb uplift                                  | at joint 38,                     | 6 lb uplift at                |            |                           | -                    | 1                      | 200                |                    | 1.1                            | II.       |
| Ten                    | nsion                     |                        |                                |                          |            | joint 37, 6 l<br>uplift at joir  | ום uplitt at joint 36, 6 lb נ<br>nt 34, 6 lb uplift at joint 3 | uplift at join:<br>33, 5 lb upli | t 35, 6 lb<br>ft at joint     |            |                           | = 0                  | 3.6                    | No                 |                    | 2103                           | -         |
|                        |                           |                        |                                |                          |            | 32, 6 lb up                      | lift at joint 31, 2 lb uplift                                  | at joint 30,                     | 18 lb uplift                  |            |                           | 14                   | 14A                    | igii               | IF:                | NSTIT                          |           |
|                        |                           |                        |                                |                          |            | lb uplift at j                   | oint 23 and 1 lb uplift at                                     | joint 22.                        | ,onn <b>∠</b> <del>,</del> 10 |            |                           |                      | 1111                   | L.C                | AL                 | inni                           |           |
|                        |                           |                        |                                |                          |            |                                  |  |                                  |                               |            |                           |                      |                        |                    | 11111              |                                |           |

July 2,2025



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 outlapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1F5   | Floor      | 1   | 1   | Job Reference (optional)      | 174582466 |

## Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:22 ID:\_QZxRho4bzUzoy0V579edxzGwFu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





#### Scale = 1:53.2

| Loading<br>TCLL<br>TCDL   |   | (psf)<br>40.0<br>10.0   | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL   | 1-4-0<br>1.00<br>1.00  |  | CSI<br>TC<br>BC  | 0.67<br>0.48   | DEFL<br>Vert(LL)<br>Vert(CT)   | in<br>-0.14<br>-0.16               | (loc)<br>18-19<br>18-19 | I/defl<br>>999<br>>909 | L/d<br>480<br>360 | <b>PLATES</b><br>MT20 | <b>GRIP</b><br>244/190 |
|---|---|---|--|------------------------|--|--|--|--|------------------------------------|-------------------------|------------------------|-------------------|-----------------------|------------------------|
| BCLL  |   | 0.0   | Rep Stress Incr  | NO                     |  | WB   | 0.23   | Horz(CT)   | 0.02                               | 15                      | n/a                    | n/a               |                       |                        |
| BCDL  |   | 5.0   | Code   | IRC202                 | 1/TPI2014  | Matrix-S   |  |  |                                    |                         |                        |                   | Weight: 74 lb         | FT = 20%F, 12%E        |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD | 2x4 SP No<br>2x4 SP St<br>2x4 SP No<br>2x4 SP No<br>Structural<br>6-0-0 oc p<br>Rigid ceili<br>bracing. | 5.2(flat)<br>S(flat)<br>5.3(flat)<br>5.3(flat)<br>5.3(flat)<br>wood shea<br>burlins, exc<br>ng directly | athing directly applied<br>æpt end verticals.<br>applied or 6-0-0 oc   | 5)<br>6)<br>I or<br>7) | N/A<br>This truss ha<br>load of 250.0<br>panels and a<br>Bottom Chore<br>Recommend<br>10-00-00 oc ;<br>(0.131" X 3") | s been designed fo<br>lb live and 3.0lb de<br>t all panel points al<br>d, nonconcurrent w<br>2x6 strongbacks, c<br>and fastened to eac<br>nails. Strongbacks | or a moving ad location of the second se | ving concentr<br>tted at all mic<br>Top Chord a<br>other live loa<br>a, spaced at<br>with 3-10d<br>attached to w | rated<br>I<br>and<br>ads.<br>valls |                         |                        |                   |                       |                        |
| REACTIONS   | (size)<br>Max Uplift<br>Max Grav  | 12=3-7-8,<br>15=3-7-8,<br>12=-38 (L0<br>14=-84 (L0<br>12=256 (L<br>14=262 (L<br>20=440 (L               | 13=3-7-8, 14=3-7-8,<br>20=0-3-8<br>C 16), 13=-5 (LC 35),<br>C 34)<br>C 46), 13=283 (LC 44<br>C 44), 15=538 (LC 1)<br>C 43) | 8)<br>L<br>5),         | at their outer<br>CAUTION, D<br>DAD CASE(S)  | onot erect truss ba<br>Standard  | by oth<br>ackware  | dis.   |                                    |                         |                        |                   |                       |                        |
| FORCES  | (lb) - Maxi<br>Tension  | mum Com   | pression/Maximum   |                        |  |  |  |  |                                    |                         |                        |                   |                       |                        |
| TOP CHORD   | 1-20=-258<br>2-3=-1018<br>5-6=-1498<br>8-9=-18/3  | 8/37, 11-12<br>5/0, 3-4=-14<br>8/0, 6-7=-88<br>, 9-10=-18/  | =-255/39, 1-2=-18/3,<br>498/0, 4-5=-1498/0,<br>31/0, 7-8=-18/3,<br>3, 10-11=-18/3  |                        |  |  |  |  |                                    |                         |                        |                   |                       |                        |
| BOT CHORD   | 19-20=0/6<br>16-17=0/1<br>13-14=-3/   | 44, 18-19=<br>275, 15-16<br>18, 12-13=  | =0/1353, 17-18=0/149<br>5=0/490, 14-15=-3/18<br>-3/18  | 18,<br>,               |  |  |  |  |                                    |                         |                        |                   | "TH CA                | RO                     |
| WEBS  | 4-18=-182<br>2-20=-761<br>3-18=-208<br>6-16=-482<br>10-13=-26   | 2/101, 5-17<br>1/0, 2-19=0,<br>3/360, 7-15<br>2/0, 6-17=-1<br>39/13                                     | =-198/87, 8-15=-275/<br>/490, 3-19=-412/11,<br>=-630/0, 7-16=0/517,<br>156/416, 9-14=-261/2                                | 35,<br>4,              |  |  |  |  |                                    |                         | 1111                   | N                 | O` FAS<br>FAS<br>SEA  | Max Man                |
| NOTES   |   |   |  |                        |  |  |  |  |                                    |                         |                        | - 1               | 2867                  | 7 E                    |
| 1) Unbalance  | ed floor live   | oads have   | been considered for  |                        |  |  |  |  |                                    |                         | -                      |                   | : 2007                | 1 3                    |
| this design   | 1.<br>  |   |  |                        |  |  |  |  |                                    |                         |                        |                   | N                     | 1 1 E                  |

- All plates are 3x3 (=) MT20 unless otherwise indicated. Truss to be fully sheathed from one face or securely 2) 3) braced against lateral movement (i.e. diagonal web).

Gable studs spaced at 1-4-0 oc. 4)

THORN L. GAL mmm July 2,2025



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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (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 | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|--------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1FGR2 | Floor Girder | 1   | 1   | Job Reference (optional)      | 174582508 |

## Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:29 ID:GMs1UKFfYEtVx2JaX4yJKLzGwPe-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



14-4-4

| ~ · | 4 00 0 |  |
|-----|--------|--|

| Scale = 1:29.6  |  |   |                           |   |   |  |  |  |       |        |     |               |                  |
|---|--|---|---------------------------|---|---|--|--|--|-------|--------|-----|---------------|------------------|
| Loading   | (psf)  | Spacing   | 2-0-0                     |   | CSI   |  | DEFL   | in   | (loc) | l/defl | L/d | PLATES        | GRIP             |
| TCLL  | 40.0   | Plate Grip DOL  | 1.00                      |   |   | 0.58   | Vert(LL)   | -0.23  | 13-14 | >738   | 480 | MT20          | 244/190          |
| RCU   | 10.0   | Lumber DOL<br>Bon Stroop Inor   | 1.00                      |   | BC  | 0.00   |  | -0.26  | 13-14 | >045   | 360 |               |                  |
| BOLL  | 0.0  | Codo  |                           |   | VVB<br>Motrix S   | 0.55   | HOIZ(CT)   | 0.05   | 9     | n/a    | n/a | Woight: 72 lb | ET - 200/E 120/E |
| BCDL  | 5.0  | Code  | IRC202                    | 1/1712014   | Matrix-S  |  |  |  |       |        |     | weight. 73 lb | FT = 20%F, 12%E  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD | 2x4 SP SS(flat)<br>2x4 SP SS(flat)<br>2x4 SP No.3(flat)<br>2x4 SP No.3(flat)<br>2x4 SP No.3(flat)<br>Structural wood she<br>6-0-0 oc purlins, ex<br>Rigid ceiling directly | athing directly applie<br>cept end verticals.<br>applied or 10-0-0 oc                                   | 5)<br>6)<br>7)<br>ed or   | Use Simpson<br>or equivalent<br>(es) to back is<br>Fill all nail ho<br>Hanger(s) or<br>provided suff<br>down and 18<br>up at 8-2-0,<br>top chord. T<br>device(s) is t | n Strong-Tie THA<br>t at 4-9-12 from til<br>face of top chord<br>olles where hange<br>other connectior<br>ficient to support<br>16 lb up at 6-2-0,<br>and 224 lb down<br>he design/selecti<br>he responsibility | A422 (Sing<br>he left end<br>ter is in con<br>n device(s<br>concentra<br>and 84 lb<br>and 107<br>ion of sucl<br>of others. | le Chord Gir<br>tact with lum<br>) shall be<br>ted load(s) 8<br>down and 1<br>b up at 9-6-<br>n connection | der)<br>truss<br>iber.<br>34 lb<br>86 lb<br>4 on |       |        |     |               |                  |
| REACTIONS   | (size) 9=0-4-8,<br>Max Grav 9=923 (LC  | 18=0-3-8<br>C 1), 18=917 (LC 1)   | 8)                        | In the LOAD<br>of the truss a   | CASE(S) section<br>are noted as front   | n, loads ap<br>t (F) or ba   | oplied to the t<br>ck (B).   | face   |       |        |     |               |                  |
| FORCES  | (lb) - Maximum Com<br>Tension  | pression/Maximum  | 1)                        | Dead + Flo  | or Live (balanced   | d): Lumbei   | Increase=1.  | .00,   |       |        |     |               |                  |
| TOP CHORD   | 1-18=-273/28, 8-9=-<br>2-3=-2302/0, 3-4=-3<br>5-6=-3618/0, 6-7=-2  | 272/25, 1-2=-19/2,<br>619/0, 4-5=-3945/0,<br>302/0, 7-8=0/0   |                           | Uniform Los<br>Vert: 9-1  | ase=1.00<br>ads (lb/ft)<br>8=-10, 1-8=-100  |  |  |  |       |        |     |               |                  |
| BOT CHORD   | 17-18=0/1349, 16-1<br>14-15=0/3945, 13-1<br>11-12=0/3258, 10-1   | 7=0/3260, 15-16=0/3<br>4=0/3945, 12-13=0/3<br>1=0/3258, 9-10=0/13                                       | 3260,<br>3945,<br>350     | Vert: 31=   | ed Loads (Ib)<br>144 (B), 33=-4 (   | (B), 35=-4   | (B), 37=-144   | 4 (B)  |       |        |     |               |                  |
| WEBS  | 2-18=-1595/0, 7-9=-<br>7-10=0/1162, 3-17=-<br>4-14=-341/359, 5-13<br>3-16=-101/241, 3-15<br>6-11=-101/241, 6-12  | 1600/0, 2-17=0/1164<br>-1151/0, 6-10=-1149<br>3=-343/358,<br>5=0/568, 4-15=-761/<br>2=0/570, 5-12=-759/ | 4,<br>)/0,<br>154,<br>151 |   |   |  |  |  |       |        |     | WITH CA       | BO               |
| NOTES   |  |   |                           |   |   |  |  |  |       |        | 5   | R             | . July           |
| 1) Unbalance<br>this design   | ed floor live loads have<br>n.   | e been considered fo  | or                        |   |   |  |  |  |       |        | i v | S SSS         | Distant.         |
| 2) This truss<br>load of 250  | has been designed for<br>0.0lb live and 3.0lb dea  | r a moving concentra<br>ad located at all mid   | ated                      |   |   |  |  |  |       |        |     | SEA           |                  |

- panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads. Recommend 2x6 strongbacks, on edge, spaced at 3) 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls
- at their outer ends or restrained by other means. 4) CAUTION, Do not erect truss backwards.

GA 1111 111 July 2,2025

28677

Page: 1

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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (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 | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|--------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1FGR1 | Floor Girder | 2   | 1   | Job Reference (optional)      | 174582509 |

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:29 ID:1d0rHoSY7HXqHOMGkxdyAXz1768-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1











Scale = 1:39.4

Plate Offsets (X, Y): [5:0-1-8,Edge]

| Loading                          | (psf)                           | Spacing                   | 2-0-0    |                  | CSI                       |          | DEFL            | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |
|----------------------------------|---------------------------------|---------------------------|----------|------------------|---------------------------|----------|-----------------|-------|-------|--------|-----|---------------|-----------------|
| TCLL                             | 40.0                            | Plate Grip DOL            | 1.00     |                  | TC                        | 0.69     | Vert(LL)        | -0.03 | 9-10  | >999   | 480 | MT20          | 244/190         |
| TCDL                             | 10.0                            | Lumber DOL                | 1.00     |                  | BC                        | 0.59     | Vert(CT)        | -0.03 | 9-10  | >999   | 360 | MT20HS        | 187/143         |
| BCLL                             | 0.0                             | Rep Stress Incr           | NO       |                  | WB                        | 0.17     | Horz(CT)        | 0.00  | 7     | n/a    | n/a |               |                 |
| BCDL                             | 5.0                             | Code                      | IRC2021/ | TPI2014          | Matrix-S                  |          |                 |       |       |        |     | Weight: 33 lb | FT = 20%F, 12%E |
|                                  |                                 |                           | 7)       | Recommend        | 2x6 strongbacks           | on edae  | spaced at       |       |       |        |     |               |                 |
|                                  | 2v/LSP No 2/flat)               |                           | 1)       | 10-00-00 oc a    | and fastened to ear       | ch truss | with 3-10d      |       |       |        |     |               |                 |
| BOT CHORD                        | 2x4 SP No 2(flat)               |                           |          | (0.131" X 3")    | nails. Strongbacks        | s to be  | attached to w   | alls  |       |        |     |               |                 |
| WEBS                             | 2x4 SP No 3(flat)               |                           |          | at their outer   | ends or restrained        | by othe  | er means.       |       |       |        |     |               |                 |
| OTHERS                           | 2x4 SP No.3(flat)               |                           | 8)       | CAUTION, D       | o not erect truss ba      | ackward  | ls.             |       |       |        |     |               |                 |
| BRACING                          |                                 |                           | 9)       | Use Simpson      | Strong-Tie THA42          | 22 (Sing | le Chord Gir    | der)  |       |        |     |               |                 |
| TOP CHORD                        | Structural wood she             | athing directly applie    | d or     | or equivalent    | at 1-10-4 from the        | left end | to connect t    | russ  |       |        |     |               |                 |
|                                  | 6-0-0 oc purlins. ex            | cept end verticals.       |          | (es) to front fa | ace of top chord.         |          |                 |       |       |        |     |               |                 |
| BOT CHORD                        | Rigid ceiling directly          | applied or 6-0-0 oc       | 10)      | Fill all nail ho | les where hanger is       | s in cor | tact with lum   | ber.  |       |        |     |               |                 |
|                                  | bracing, Except:                |                           | 11)      | In the LOAD      | CASE(S) section, I        | oads al  | oplied to the f | face  |       |        |     |               |                 |
|                                  | 10-0-0 oc bracing: 6            | 6-7.                      |          | of the truss a   | re noted as front (F      | ) or ba  | ск (В).         |       |       |        |     |               |                 |
| REACTIONS                        | (size) 7=0-3-8, 7               | 10= Mechanical            | LOA      | AD CASE(S)       | Standard                  |          |                 | ~~    |       |        |     |               |                 |
|                                  | Max Uplift 10=-7 (LC            | 2 4)                      | 1)       | Dead + Floo      | or Live (balanced):       | Lumbe    | Increase=1.     | 00,   |       |        |     |               |                 |
|                                  | Max Grav 7=709 (L0              | C 28), 10=395 (LC 11      | )        | Plate Increa     | Se=1.00                   |          |                 |       |       |        |     |               |                 |
| FORCES                           | (lb) - Maximum Corr             | pression/Maximum          |          | Vort: 6-10       | 105 (10/11)<br>)10 1-5100 |          |                 |       |       |        |     |               |                 |
|                                  | Tension                         |                           |          | Concentrate      | d Loade (lb)              |          |                 |       |       |        |     |               |                 |
| TOP CHORD                        | 1-10=-287/0, 5-6=-5             | /263, 1-2=0/0,            |          | Vert: 57         | 75 2144 (F)               |          |                 |       |       |        |     |               |                 |
|                                  | 2-3=-351/143, 3-4=0             | 0/780, 4-5=0/780          |          | Volt. 0= 7       | 0, <u>2</u> = 144 (1)     |          |                 |       |       |        |     |               |                 |
| BOT CHORD                        | 9-10=-143/351, 8-9=             | =-143/351, 7-8=-143/3     | 351,     |                  |                           |          |                 |       |       |        |     |               |                 |
| WERE                             | 6-7=0/0<br>4 7 - 260/5 5 7 - 95 | 7/0 2 7 744/0             |          |                  |                           |          |                 |       |       |        |     |               |                 |
| WEDS                             | 4-7=-209/0, 0-7=-00             | -161/110 3-8-0/285        | :        |                  |                           |          |                 |       |       |        |     |               |                 |
| NOTES                            | 2-10411/107, 2-3-               | 101/110, 3-0-0/203        |          |                  |                           |          |                 |       |       |        |     |               | 1111            |
| 1) Unbalance                     | ad floor live loads have        | been considered for       | r        |                  |                           |          |                 |       |       |        |     | TH UA         | ROIL            |
| this design                      | n                               |                           |          |                  |                           |          |                 |       |       |        | 5   | N. Kko        | in the second   |
| <ol> <li>All plates a</li> </ol> | are MT20 plates unles           | s otherwise indicated     | l.       |                  |                           |          |                 |       |       |        | 22  | A A           | Mi Si           |
| 3) Refer to g                    | irder(s) for truss to trus      | ss connections.           |          |                  |                           |          |                 |       |       |        | -   | 4 X X         | VA: E           |
| 4) Provide m                     | echanical connection            | (by others) of truss to   | )        |                  |                           |          |                 |       |       | 5      |     |               | 1 1 1 E         |
| bearing pla                      | ate capable of withstar         | nding 7 lb uplift at joir | nt       |                  |                           |          |                 |       |       | =      |     | SEA           | L 1 1           |
| 10.                              |                                 |                           |          |                  |                           |          |                 |       |       | =      | :   | 2067          |                 |
| <ol><li>Load case</li></ol>      | e(s) 1 has/have been m          | nodified. Building        |          |                  |                           |          |                 |       |       | 1      |     | 2007          | / ; z           |
| designer n                       | nust review loads to ve         | erify that they are cor   | rect     |                  |                           |          |                 |       |       |        |     |               | 1 5             |
| tor the inte                     | ended use of this truss         |                           | 4 1      |                  |                           |          |                 |       |       |        |     | ·             | ains            |
| b) I his truss                   | nas been designed to            | r a moving concentra      | ted      |                  |                           |          |                 |       |       |        | 1.1 | O, VGINI      | EFICE           |
|                                  | d at all papel points all       | au iocaleu al all miù     | hd       |                  |                           |          |                 |       |       |        | 11  | YA,           | IN IN           |
| Bottom Ch                        | ord nonconcurrent wi            | ith any other live load   | la<br>Is |                  |                           |          |                 |       |       |        |     | 11, L.G.      | AL              |
| Dottoin Of                       |                                 |                           |          |                  |                           |          |                 |       |       |        |     | in min        | IIIII.          |

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 BCEL Building Component Science Use Component Categories (http://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

July 2,2025

| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1F16  | Floor      | 2   | 1   | Job Reference (optional)      | 174582510 |

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:27 ID:\_gQSnvwyCNPuQvmOqOwF0fz17C\_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:39.4

Plate Offsets (X, Y): [5:0-1-8,Edge]

|                 |  |  |                            |  | _          |               |       |       |        |     |                         |                 |
|-----------------|--|--|----------------------------|--|------------|---------------|-------|-------|--------|-----|-------------------------|-----------------|
| Loading         | (psf)  | Spacing  | 2-0-0                      | CSI  |            | DEFL          | in    | (loc) | l/defl | L/d | PLATES                  | GRIP            |
| TCLL            | 40.0   | Plate Grip DOL                                   | 1.00                       | TC   | 0.64       | Vert(LL)      | -0.02 | 9-10  | >999   | 480 | MT20                    | 244/190         |
| TCDL            | 10.0   | Lumber DOL                                       | 1.00                       | BC   | 0.51       | Vert(CT)      | -0.03 | 9-10  | >999   | 360 | MT20HS                  | 187/143         |
| BCLL            | 0.0  | Rep Stress Incr                                  | YES                        | WB   | 0.22       | Horz(CT)      | 0.00  | 7     | n/a    | n/a |                         |                 |
| BCDL            | 5.0  | Code   | IRC2021/TPI2014            | 4 Matrix-S   | -          |               |       |       |        |     | Weight: 33 lb           | FT = 20%F, 12%E |
| LUMBER          |  |  | 7) Recom                   | mend 2x6 strongbacks   | s, on edge | e, spaced at  |       |       |        |     |                         |                 |
| TOP CHORD       | 2x4 SP No.2(flat)  |  | 10-00-0                    | 0 oc and fastened to e   | each truss | s with 3-10d  |       |       |        |     |                         |                 |
| BOT CHORD       | 2x4 SP No.2(flat)  |  | (0.131"                    | X 3") nails. Strongbad   | cks to be  | attached to v | valls |       |        |     |                         |                 |
| WEBS            | 2x4 SP No.3(flat)  |  | at their                   | outer ends or restraine  | ed by othe | er means.     |       |       |        |     |                         |                 |
| OTHERS          | 2x4 SP No.3(flat)  |  | 8) CAUTIC                  | DN, Do not erect truss   | backward   | ds.           |       |       |        |     |                         |                 |
| BRACING         |  |  | LOAD CAS                   | E(S) Standard  |            |               |       |       |        |     |                         |                 |
| TOP CHORD       | Structural wood she  | athing directly applie                           | ed or 1) Dead ·<br>Plate I | + Floor Live (balanced<br>ncrease=1.00                         | I): Lumbe  | r Increase=1  | .00,  |       |        |     |                         |                 |
| BOT CHORD       | Rigid ceiling directly<br>bracing, Except:<br>10-0-0 oc bracing: 6 | applied or 6-0-0 oc                              | Unifori<br>Veri<br>Conce   | m Loads (lb/ft)<br>:: 6-10=-10, 1-5=-100<br>ntrated Loads (lb) |            |               |       |       |        |     |                         |                 |
| REACTIONS       | (size) 7=0-3-8, 1<br>Max Uplift 10=-176 (<br>Max Grav 7=775 (LC    | 10= Mechanical<br>LC 28)<br>C 16), 10=206 (LC 24 | Veri<br>4)                 | :: 5=-175  |            |               |       |       |        |     |                         |                 |
| FORCES          | (lb) - Maximum Com   | pression/Maximum                                 | ,                          |  |            |               |       |       |        |     |                         |                 |
|                 |  | 1001 1 0 0/0                                     |                            |  |            |               |       |       |        |     |                         |                 |
| TOP CHORD       | 1-10=-281/0, 5-6=-6  | /201, 1-2=0/0,                                   |                            |  |            |               |       |       |        |     |                         |                 |
|                 | 2-3=-01/433, 3-4=0/3   | 993, 4-3=0/993<br>122/61 7 9- 122/61             |                            |  |            |               |       |       |        |     |                         |                 |
| BOT CHORD       | 6-7=0/0  | 433/01, 7-8=-433/01                              | ,                          |  |            |               |       |       |        |     |                         |                 |
| WEBS            | 4-7=-277/0, 3-7=-65<br>2-9=-138/133, 3-8=0                         | 3/0, 2-10=-71/507,<br>)/262, 5-7=-1091/0         |                            |  |            |               |       |       |        |     |                         | un              |
| NOTES           |  |  |                            |  |            |               |       |       |        |     | White CA                | Dalla           |
| 1) Unbalance    | ed floor live loads have   | been considered fo                               | or                         |  |            |               |       |       |        |     | "ath on                 | TOV             |
| this design     | າ.   |  |                            |  |            |               |       |       |        | N   | 0                       | WAN'S           |
| 2) All plates a | are MT20 plates unles  | s otherwise indicated                            | d.                         |  |            |               |       |       |        | 23  |                         | No. 7 -         |
| 3) Refer to gi  | irder(s) for truss to trus   | s connections.                                   |                            |  |            |               |       |       |        |     | 5AM                     | 1               |
| 4) Provide m    | echanical connection (   | (by others) of truss to                          | 0                          |  |            |               |       |       | -      |     | 7.                      | . N. E.         |
| bearing pla     | ate capable of withstar  | nding 176 lb uplift at                           | joint                      |  |            |               |       |       | =      |     | SEA                     | L : =           |
| 10.             |  |  |                            |  |            |               |       |       | =      |     | 2867                    | 7 :             |
| 5) Load case    | e(s) 1 has/have been m   | nodified. Building                               |                            |  |            |               |       |       | =      |     | 2007                    | 1 1 3           |
| designer n      | nust review loads to ve  | erify that they are col                          | rrect                      |  |            |               |       |       |        |     | <b>N</b>                | 1 8             |
| 6) This trues   | has been designed for  |  | otod                       |  |            |               |       |       |        | 2.1 | · · En                  | Ains            |
| load of 250     | 0 0lb live and 3 0lb des   | a moving concernit                               | aleu                       |  |            |               |       |       |        | 17  | O, GINF                 | et at s         |
| panels and      | d at all panel points alc  | ong the Top Chord a                              | nd                         |  |            |               |       |       |        | 11  | MY                      | 1112            |
| Bottom Ch       | nord, nonconcurrent wi   | th any other live load                           | ds.                        |  |            |               |       |       |        |     | 111. L. GI              | AL              |
|                 | ,  | , , ,  |                            |  |            |               |       |       |        |     | · · · · · · · · · · · · | ann.            |

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 BCEL Building Component Science Use Component Categories (http://www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

July 2,2025



| Job         | Truss  | Truss Type            | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|--------|-----------------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1FGE10 | Floor Supported Gable | 1   | 1   | Job Reference (optional)      | 174582511 |

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:29

ID:odS0pv8EFIFWAONGCTAr72z176Y-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

Structural, LLC, Thurmont, MD - 21788.

4-8-0 1-4-0 1-4-0 0-8-0 0-1-8 3x3 II 1.5x3 🛚 1.5x3 🛚 1.5x3 🛚 1.5x3 🛚 15 2 16 3 17 4 1 5 0-3-9 Ŷ 1-0-0 6 10 14 12 13 8 7 3x3 = 1.5x3 u 1.5x3 🛛 1.5x3 🛚 3x3 II 1.5x3 = 4-8-0 4-8-0

Scale = 1:27.5

| Loading   |  | (psf)                  | Spacing                        | 2-0-0  |             | CSI               |            | DEFL        | in   | (loc) | l/defl | L/d | PLATES        | GRIP            |
|---|--|------------------------|--------------------------------|--------|-------------|-------------------|------------|-------------|------|-------|--------|-----|---------------|-----------------|
| TCLL  |  | 40.0                   | Plate Grip DOL                 | 1.00   |             | TC                | 0.27       | Vert(LL)    | n/a  | -     | n/a    | 999 | MT20          | 244/190         |
| TCDL  |  | 10.0                   | Lumber DOL                     | 1.00   |             | BC                | 0.28       | Vert(TL)    | n/a  | -     | n/a    | 999 |               |                 |
| BCLL  |  | 0.0                    | Rep Stress Incr                | YES    |             | WB                | 0.05       | Horiz(TL)   | 0.00 | 6     | n/a    | n/a |               |                 |
| BCDL  |  | 5.0                    | Code                           | IRC202 | I/TPI2014   | Matrix-R          |            |             |      |       |        |     | Weight: 21 lb | FT = 20%F, 12%E |
| LUMBER  |  |                        |                                | 6)     | Recommend   | 2x6 strongbacks   | . on edae  | . spaced at |      |       |        |     |               |                 |
| TOP CHORD   | 2x4 SP N   | lo.2(flat)             |                                | -,     | 10-00-00 oc | and fastened to e | each truss | with 3-10d  |      |       |        |     |               |                 |
| BOT CHORD   | HORD 2x4 SP No.2(flat) (0.131" X 3") nails. Strongbacks to be attached to wa |                        |                                |        |             |                   |            |             | alls |       |        |     |               |                 |
| WEBS  | 2x4 SP No.3(flat) at their outer ends or restrained by other means.          |                        |                                |        |             |                   |            |             |      |       |        |     |               |                 |
| OTHERS  | 2x4 SP No.3(flat) 7) CAUTION, Do not erect truss backwards.                  |                        |                                |        |             |                   |            |             |      |       |        |     |               |                 |
| BRACING   | LOAD CASE(S) Standard  |                        |                                |        |             |                   |            |             |      |       |        |     |               |                 |
| TOP CHORD   | CHORD Structural wood sheathing directly applied or                          |                        |                                |        |             |                   |            |             |      |       |        |     |               |                 |
|   | 4-8-0 oc   | purlins, ex            | cept end verticals.            |        |             |                   |            |             |      |       |        |     |               |                 |
| BOT CHORD   | Rigid ceil<br>bracing.   | ing directly           | applied or 6-0-0 oc            |        |             |                   |            |             |      |       |        |     |               |                 |
| REACTIONS   | (size)   | 6=4-8-0, 7<br>10=4-8-0 | 7=4-8-0, 8=4-8-0, 9=           | 4-8-0, |             |                   |            |             |      |       |        |     |               |                 |
|   | Max Uplift   | 6=-68 (LC<br>10=-14 (L | C 16), 7=-26 (LC 14),<br>C 15) |        |             |                   |            |             |      |       |        |     |               |                 |
|   | Max Grav   | 6=259 (LC              | C 22), 7=282 (LC 17)           | ),     |             |                   |            |             |      |       |        |     |               |                 |
|   |  | 8=295 (LC              | C 20), 9=293 (LC 19            | ),     |             |                   |            |             |      |       |        |     |               |                 |
|   |  | 10=268 (L              | _C 18)                         |        |             |                   |            |             |      |       |        |     |               |                 |
| FORCES  | (lb) - Max<br>Tension  | kimum Com              | pression/Maximum               |        |             |                   |            |             |      |       |        |     |               |                 |
| TOP CHORD   | 1-10=-26   | 0/21, 5-6=-            | 254/75, 1-2=-35/6,             |        |             |                   |            |             |      |       |        |     |               |                 |
|   | 2-3=-35/6  | 6, 3-4=-35/6           | 6, 4-5=-35/6                   |        |             |                   |            |             |      |       |        |     |               |                 |
| BOT CHORD   | RD 9-10=-6/35, 8-9=-6/35, 7-8=-6/35, 6-7=-6/35                               |                        |                                |        |             |                   |            |             |      |       |        |     |               |                 |
| WEBS  | 2-9=-277/2, 3-8=-279/0, 4-7=-264/19  |                        |                                |        |             |                   |            |             |      |       |        |     |               | 11.             |
| NOTES   |  |                        |                                |        |             |                   |            |             |      |       |        |     | ""IL CA       | Dille           |
| <ol> <li>Gable requires continuous bottom chord bearing.</li> </ol> |  |                        |                                |        |             |                   |            |             |      |       |        |     | THUA          | AOU'L           |

Truss to be fully sheathed from one face or securely 2)

braced against lateral movement (i.e. diagonal web).

3) Gable studs spaced at 1-4-0 oc.

4) N/A

5) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.



818 Soundside Road Edenton, NC 27932

GA

SEAL 28677 Man Manutan

and a state of the state of the

 $\cap$ 

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 | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1F14  | Floor      | 1   | 1   | Job Reference (optional)      | 174582512 |

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:27 Page: 1 ID:Kqe37AM52EcQurFY7j5S9yz17Ci-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

#### 0-1-8 П 1-3-0 1-5-0 1.5x3 u 3x3 = 3x3 = 3x3 II 13 2 3 15 1 14 4 0-3-9 φ lφ 1-0-0 10 11 12 7 6 3x6 = 1.5x3 🛚 1.5x3 u





#### Scale = 1:25.3

| 00010 - 1.20.0 |                   |                           |                        |                |      |                  |             |              |        |            | -             |                        |  |
|----------------|-------------------|---------------------------|------------------------|----------------|------|------------------|-------------|--------------|--------|------------|---------------|------------------------|--|
| Loading        | (psf)<br>40.0     | Spacing<br>Plate Grip DOI | 2-0-0<br>1 00          | CSI<br>TC      | 0.43 | DEFL<br>Vert(LL) | in<br>-0.03 | (loc)<br>5-6 | l/defl | L/d<br>480 | PLATES        | <b>GRIP</b><br>244/190 |  |
| TCDL           | 10.0              | Lumber DOL                | 1.00                   | BC             | 0.48 | Vert(CT)         | -0.03       | 5-6          | >999   | 360        |               | 210,100                |  |
| BCLL<br>BCDL   | 0.0<br>5.0        | Rep Stress Incr<br>Code   | YES<br>IRC2021/TPI2014 | WB<br>Matrix-S | 0.08 | Horz(CT)         | 0.00        | 5            | n/a    | n/a        | Weight: 24 lb | FT = 20%F, 12%E        |  |
| LUMBER         | 2x4 SP No 2(flat) | •                         |                        | •              |      |                  |             |              |        |            |               |                        |  |

| BOT CHORD | 2x4 SP No.2(flat)  |
|-----------|--|
| WEBS      | 2x4 SP No.3(flat)  |
| OTHERS    | 2x4 SP No.3(flat)  |
| BRACING   |  |
| TOP CHORD | Structural wood sheathing directly applied or<br>4-8-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.                                     |
| REACTIONS | (size) 5= Mechanical, 8=0-3-8  |
|           | Max Grav 5=319 (LC 11), 8=318 (LC 19)  |
| FORCES    | (lb) - Maximum Compression/Maximum   |
|           | Tension  |
| TOP CHORD | 1-8=-266/11, 4-5=-265/10, 1-2=-19/1,   |
|           | 2-3=-319/0, 3-4=0/0  |
| BOT CHORD | 7-8=0/319, 6-7=0/319, 5-6=0/319  |
| WEBS      | 3-5=-373/0, 2-8=-374/0, 2-7=-47/205,   |
|           | 3-6=-48/205  |

#### NOTES

 Unbalanced floor live loads have been considered for this design.

2) Refer to girder(s) for truss to truss connections.

- 3) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



July 2,2025

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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



| Job                               | Truss  | Truss Type  | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |  |
|-----------------------------------|--------|---|-----|-----|-------------------------------|-----------|--|
| 2412-1161-A                       | 1FGE11 | Floor Supported Gable   | 1   | 1   | Job Reference (optional)      | 174582513 |  |
| Structural, LLC, Thurmont, MD - : | 21788, | Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries. Inc. Mon Jun 30 14:56:29 |     |     |                               |           |  |



Scale = 1:28.3

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

|  | ( ) / [ ]   |   |                              |   |   |  |  |           |       |        |     |               |                 |
|--|---|---|------------------------------|---|---|--|--|-----------|-------|--------|-----|---------------|-----------------|
| Loading  | (psf)<br>40.0   | Spacing<br>Plate Grip DOI   | 2-0-0                        |   | CSI   | 0.28   | <b>DEFL</b>  | in<br>n/a | (loc) | l/defl | L/d | PLATES        | GRIP<br>244/190 |
| TCDL   | 10.0  | Lumber DOL  | 1.00                         |   | BC  | 0.32   | Vert(TL)   | n/a       | -     | n/a    | 999 | 11120         | 211/100         |
| BCLL   | 0.0   | Rep Stress Incr   | YES                          |   | WB  | 0.05   | Horiz(TL)  | 0.00      | 6     | n/a    | n/a |               |                 |
| BCDL   | 5.0   | Code  | IRC2021/T                    | PI2014  | Matrix-R  |  |  |           |       |        |     | Weight: 21 lb | FT = 20%F, 12%E |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS | 2x4 SP No.2(flat)<br>2x4 SP No.2(flat)<br>2x4 SP No.3(flat)<br>2x4 SP No.3(flat)                    |   | 7) F<br>1<br>((<br>2<br>8) C | Recommend<br>0-00-00 oc :<br>0.131" X 3")<br>at their outer<br>CAUTION, D | 2x6 strongback<br>and fastened to<br>nails. Strongba<br>ends or restrair<br>o not erect truss | as, on edge<br>each truss<br>acks to be a<br>ned by othe<br>s backward | , spaced at<br>with 3-10d<br>attached to w<br>er means.<br>ls. | alls      |       |        |     |               |                 |
| BRACING  |   |   | LOA                          | D CASE(S)   | Standard  |  |  |           |       |        |     |               |                 |
| TOP CHORD  | Structural wood she   | athing directly applie  | ed or                        |   |   |  |  |           |       |        |     |               |                 |
| BOT CHORD  | 4-5-8 oc purlins, except end verticals.<br>RD Rigid ceiling directly applied or 6-0-0 oc<br>bracing |   |                              |   |   |  |  |           |       |        |     |               |                 |
| REACTIONS  | (size) 6=4-5-8,<br>Max Uplift 6=-2 (LC<br>(LC 6), 9=<br>Max Grav 6=277 (LC<br>8=288 (LC             | 7=4-5-8, 8=4-5-8, 9=<br>5), 7=-4 (LC 13), 8=<br>16 (LC 5)<br>C 19), 7=298 (LC 18<br>C 17), 9=272 (LC 16 | -4-5-8<br>-46<br>),          |   |   |  |  |           |       |        |     |               |                 |
| FORCES   | (Ib) - Maximum Com  | pression/Maximum  | ,                            |   |   |  |  |           |       |        |     |               |                 |
| TOP CHORD  | I ension<br>1-9=-265/22, 5-6=-7<br>2-3=-46/10, 3-4=-46  | 0/93, 1-2=-46/10,<br>/10, 4-5=-53/14  |                              |   |   |  |  |           |       |        |     |               |                 |
| BOT CHORD  | 8-9=-10/46, 7-8=-10   | /46, 6-7=-10/46   |                              |   |   |  |  |           |       |        |     |               |                 |
| WEBS   | 2-8=-275/32, 3-7=-2   | 81/9, 4-6=-239/68   |                              |   |   |  |  |           |       |        |     |               |                 |
| NOTES  |   |   |                              |   |   |  |  |           |       |        |     | minin         | 1111            |
| 1) Gable req                                       | uires continuous botto  | m chord bearing.  |                              |   |   |  |  |           |       |        |     | I'' H CA      | ROUL            |
| 2) Truss to b                                      | e fully sheathed from o   | one face or securely  |                              |   |   |  |  |           |       |        | N   | R             |                 |
| braced ag  | ainst lateral movemen   | t (i.e. diagonal web).  |                              |   |   |  |  |           |       |        | 21  | O' FESS       | VSIN 1          |
| <ol> <li>Gable stu</li> <li>Brovido m</li> </ol>   | ds spaced at 1-4-0 oc.  | (by others) of truce to   | 0                            |   |   |  |  |           |       |        | 52  | A 1           | 14:1 3          |

4 bearing plate capable of withstanding 2 lb uplift at joint 6.

5) N/A

This truss has been designed for a moving concentrated 6) load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.



July 2,2025



| Job         | Truss | Truss Type | Qty | Ply | Stonefield Rev 3-Elev 1-Floor |           |
|-------------|-------|------------|-----|-----|-------------------------------|-----------|
| 2412-1161-A | 1F15  | Floor      | 1   | 1   | Job Reference (optional)      | 174582514 |

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 14:56:27 ID:lgrdK0ceKO7alwnOlwS8zAz17CO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







3x6 =



1.5x3 🛚

3x3 II



| Scale = 1:18.7 |       |                 |                 |          |      |          |       |       |        |     |               |                 |
|----------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| Loading        | (psf) | Spacing         | 2-0-0           | CSI      |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |
| TCLL           | 40.0  | Plate Grip DOL  | 1.00            | TC       | 0.43 | Vert(LL) | -0.03 | 5-6   | >999   | 480 | MT20          | 244/190         |
| TCDL           | 10.0  | Lumber DOL      | 1.00            | BC       | 0.48 | Vert(CT) | -0.03 | 7-8   | >999   | 360 |               |                 |
| BCLL           | 0.0   | Rep Stress Incr | YES             | WB       | 0.08 | Horz(CT) | 0.00  | 5     | n/a    | n/a |               |                 |
| BCDL           | 5.0   | Code            | IRC2021/TPI2014 | Matrix-S |      |          |       |       |        |     | Weight: 25 lb | FT = 20%F, 12%E |
| LUMBER         |       |                 |                 |          |      |          |       |       |        |     |               |                 |

| TOP CHORD | 2x4 SP No.2(flat) |
|-----------|-------------------|
|           |                   |

2x4 SP No.2(flat) BOT CHORD 2x4 SP No.3(flat) WEBS

BRACING

| TOP CHORD | Structural<br>4-8-4 oc t | wood sheathing directly applied or purling, except end verticals. |
|-----------|--------------------------|---|
| BOT CHORD | Rigid ceili<br>bracing.  | ing directly applied or 10-0-0 oc                                 |
| REACTIONS | (size)                   | 5=0-4-8, 8= Mechanical  |
|           | Max Grav                 | 5=320 (LC 11), 8=320 (LC 7)                                       |
| FORCES    | (lb) - Max               | imum Compression/Maximum  |

|           | Tension                             |
|-----------|-------------------------------------|
| TOP CHORD | 1-8=-265/10, 4-5=-265/10, 1-2=0/0,  |
|           | 2-3=-320/0, 3-4=0/0                 |
| BOT CHORD | 7-8=0/320, 6-7=0/320, 5-6=0/320     |
| WEBS      | 3-5=-374/0, 2-8=-374/0, 2-7=-48/205 |
|           | 3-6=-48/205                         |

# NOTES

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

Refer to girder(s) for truss to truss connections. 2)

- This truss has been designed for a moving concentrated 3) load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- Recommend 2x6 strongbacks, on edge, spaced at 4) 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



July 2,2025

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 Science Michael Component Advancement description (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



