# Mark Morris, P.E.

#126, 1317-M, Summerville, SC 29483 843 209-5784, Fax (866)-213-4614

The truss drawing(s) listed below have been prepared by **Atlantic Building Components** under my direct supervision based on the parameters provided by the truss designers.

AST #: 46471 JOB: 24-1221-F01 JOB NAME: LOT 0.0092 BLAKE POND Wind Code: N/A Wind Speed: Vult= N/A Exposure Category: N/A Mean Roof Height (feet): N/A These truss designs comply with IRC 2015 as well as IRC 2018. *12 Truss Design(s)* 

Trusses: F101, F102, F103, F104, F105, F106, F107, F108, F109, F110, F111, F112



#### Warning !--- Verify design parameters and read notes before use.

This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to

| Job                     | Truss                                  | Truss Type  | Qty                              | Ply                     | LOT 0.0092 BLAKE POND       | D   122 WHIMBREL COURT                              | LILLINGTON, NC         |
|-------------------------|--|---|----------------------------------|-------------------------|-----------------------------|---|------------------------|
| 24-1221-F01             | F101                                   | Floor Supported Gable                                     | 1                                | 1                       | Job Reference (optiona      |   | # 46471                |
|                         |  | Rur   | : 8.430 s Feb 1<br>220Vi IntM17r | 2 2021 Print<br>R34001W | t: 8.430 s Feb 12 2021 MiTe | ek Industries, Inc. Sat Mar 1<br>gmIJsyqtpOMWappGEM | 6 10:55:14 2024 Page 1 |
| 0-1-8                   |  | 10.7  | 2:91,01100171                    | 1040010                 |                             | JIIIIJSYQDOWWAPPOLW                                 |                        |
| Н                       |  |   |                                  |                         |                             |   |                        |
|                         |  |   |                                  |                         |                             |   | Scale = 1:38.4         |
|                         |  |   |                                  |                         |                             |   |                        |
|                         |  |   |                                  |                         |                             |   |                        |
| 1.5x3                   | 1                                      | .5x3    1.5x3   |                                  |                         |                             |   | 1.5x3                  |
|                         | '<br>1.5x3    1.5x3    1.5x3           | 3x8 FP = 1.5x3    3x4 = 1.5x3                             | 1.5x3                            | 1.5x3                   | 1.5x3    1.5x3    1.5       | 5x3    1.5x3    1.5x3                               |                        |
| 1 2                     | 3 <sub>1</sub> 4 5                     | 6 7 8 9 10 11   | 12                               | <sup>13</sup> T2        | 14 15 1                     | 16 17 18  | 19 20                  |
|                         |  |   |                                  | ST1                     | 8 8                         | e e e<br>T1 ST1 ST1                                 |                        |
|                         | ST1 ST1 ST1                            | ST1 ST1 ST1 W2 ST1 ST1<br>B1 B F3 B B                     | ST1                              | SI1<br>— 6              | ST1 ST1 S                   | T1 ST1 ST1<br>32 G G                                |                        |
| XXXXXXXXX               |  | M   | xxxxxx                           | XXXXX                   | ×××××××××××                 | *****   |                        |
| 40 39                   | 38 37 36                               | 35 34 33 32 31  | 30 29                            |                         |                             | 25 24 23  | 22 21                  |
| 3x4    1.5x3    1       | 1.5x3    1.5x3    1.5x3    1           | $.5x3 \mid\mid 1.5x3 \mid\mid 3x4 = 1.5x3 \mid\mid 1.5x3$ |                                  | FP=                     | 1.5x3    1.5x3    1.5       | 5x3    1.5x3    1.5x3                               |                        |
|                         |  |   | 1.5x3                            | 1.5x3                   |                             |   | 1.5x3                  |
|                         |  |   |                                  |                         |                             |   |                        |
|                         |  |   |                                  |                         |                             |   |                        |
|                         |  |   |                                  |                         |                             |   |                        |
|                         |  |   |                                  |                         |                             |   |                        |
|                         |  | <u>23-3-12</u><br>23-3-12                                 |                                  |                         |                             |   |                        |
| Plate Offsets (X,Y) [10 | :0-1-8,Edge], [33:0-1-8,Edge           |   |                                  |                         |                             |   |                        |
| LOADING (psf)           | <b>SPACING-</b> 2-0-0                  | CSI. DEF  | L. in                            | (loc)                   | l/defl L/d                  | PLATES G  | RIP                    |
| TCLL 40.0<br>TCDL 10.0  | Plate Grip DOL 1.00<br>Lumber DOL 1.00 | TC 0.06 Veri<br>BC 0.01 Veri                              | (LL) n/a<br>(CT) n/a             |                         | n/a 999<br>n/a 999          | MT20 24   | 14/190                 |
| BCLL 0.0                | Rep Stress Incr YES                    | WB 0.03 Hor.  | z(CT) 0.00                       |                         | n/a 999<br>n/a n/a          |   |                        |
| BCDL 5.0                | Code IRC2021/TPI2014                   | Matrix-SH   |                                  |                         |                             | Weight: 100 lb                                      | FT = 20%F, 11%E        |
| LUMBER-                 |  | BRA   | CING-                            |                         |                             |   |                        |

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) WFBS 2x4 SP No.3(flat) OTHERS

TOP CHORD BOT CHORD

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

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

#### REACTIONS. All bearings 23-3-12.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 40, 21, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 28, 27, 26, 25, 24, 23, 22

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

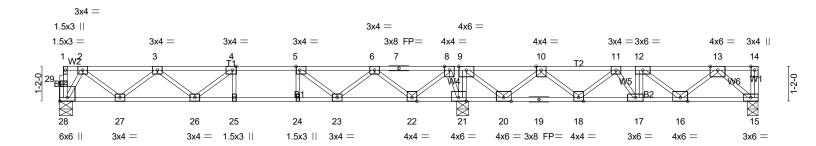
#### NOTES-(6-9)

- 1) Gable requires continuous bottom chord bearing.
- 2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.
- 6) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 7) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 8) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
- 9) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

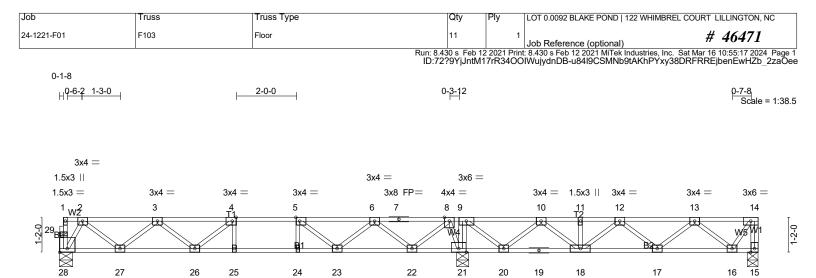
#### LOAD CASE(S) Standard



| Job                  | Truss | Truss Type | Qty    | Ply | LOT 0.0092 BLAKE POND   122 WHIMBREL  | COURT LILLINGTON, NC    |
|----------------------|-------|------------|--------|-----|---|-------------------------|
| 24-1221-F01          | F102  | Floor      | 4      | 1   | Job Reference (optional)  | # 46471                 |
|                      |       | Ru         |        |     | : 8.430 s Feb 12 2021 MiTek Industries, Inc. S<br>OIWujydnDB-yly kWQ6r u9x0X0RXvb30 |                         |
| 0-1-8                |       |            | -      |     |   |                         |
| H <b>0-6-2 1-3-0</b> | H     | 2-0-0      | 0-3-12 |     | Q-7-12  | 1-1-4<br>Scale = 1:38.5 |



| <u> </u>  | 5-10-10<br>5-10-10   | 6-10-107-10-10<br>1-0-0 1-0-0                       | 13-5-6<br>5-6-12             |                                    |   | 19-4<br>5-10-                 |                          |   | 3-14<br>1-12                              |
|---|--|---|------------------------------|------------------------------------|---|-------------------------------|--------------------------|---|---|
| Plate Offsets (X,Y)   | [4:0-1-8,Edge], [5:0-1-8   | ,Edge], [28:Edge,0-3-0]                             |                              |                                    |   |                               |                          |   |   |
| LOADING (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0 | SPACING-<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code IRC2021/T  |   | 0.51                         | Vert(LL) -0.                       | in (loc)<br>10 25-26<br>14 25-26<br>03 15 | l/defl<br>>999<br>>999<br>n/a | L/d<br>480<br>360<br>n/a | PLATES<br>MT20<br>Weight: 122 lb              | <b>GRIP</b><br>244/190<br>FT = 20%F, 11%E |
| BODL 5.0  |  |   |                              |                                    |   |                               |                          |   | TT = 2070T, TT70L                         |
| LUMBER-<br>TOP CHORD 2x4 S<br>BOT CHORD 2x4 S<br>WEBS 2x4 S   | P No.1(flat)<br>P No.1(flat)<br>P No.3(flat)   |   |                              | BRACING-<br>TOP CHORD<br>BOT CHORD | end ver                                   | ticals.                       | 0                        | rectly applied or 6-0<br>or 6-0-0 oc bracing. | -0 oc purlins, except                     |
|   | ze) 28=461/0-5-6 (min.<br>Grav28=505(LC 3), 21=1   |   |                              | 5/0-4-8 (min. 0-                   | 1-8)                                      |                               |                          |   |   |
| TOP CHORD 2-3=<br>9-10<br>BOT CHORD 27-2<br>21-2<br>16-1<br>WEBS 12-1   | 21-22=-1299/0, 20-21=-1545/0, 19-20=-228/1068, 18-19=-228/1068, 17-18=0/2413,<br>16-17=0/2731, 15-16=0/1035<br>BS 12-17=-498/0, 9-21=-1000/0, 3-27=-545/0, 2-27=0/565, 2-28=-610/0, 5-23=-679/0, |   |                              |                                    |   |                               |                          |   |   |
| 10-1<br>NOTES- (4-7)<br>1) Unbalanced floor   | 3=0/562, 6-22=-836/0, 8-2<br>8=0/999, 11-18=-959/0,<br>live loads have been con  | 11-17=0/618, 12-16=-1                               | 095/0, 13-16=0/107           | 2, 13-15=-1356/                    |   | n1                            |                          |   |   |
| be attached to wa<br>3) CAUTION, Do not<br>4) Graphical bracing<br>the member must  |  | restrained by other mea<br>depict the size, type or | ns.<br>the orientation of th | e brace on the r                   | nember. S                                 | ymbol on                      | ly indicates t           | hat   |   |
| design of the truss<br>6) Web bracing show  | are only graphical represents<br>to support the loads ind<br>vn is for lateral support of<br>cing of Metal Plate Conn<br>MMARY SHEET- PERM.  | licated.<br>f individual web membe                  | rs only. Refer to BC         | SI - Guide to Go                   | od Practic                                | e for Ha                      | ndling, Install          | ing,  | Mining<br>LINING                          |
| LOAD CASE(S) Star<br>1) Dead + Floor Live<br>Uniform Loads (pl  | (balanced): Lumber Incr<br>f)<br>8=-8, 1-14=-80<br>ds (lb)   |   |                              | R ADDITIONAL                       | N ADDITIO                                 | G CONSI                       | HESE MINIM               | SEAL<br>28147                                 | See Street                                |
|   |  |   |                              |                                    |   |                               |                          | MIN K. MO                                     | innin                                     |



22

3x4 =

 $\boxtimes$ 

21

4x6 =

20

19

3x4 = 3x8 FP=

18

3x8 =

17

3x4 =

16 15

3x4 || 3x4 =

| <b> </b>  | 5-10-10<br>5-10-10   | <u>β-10-10</u> 7-10-                   |   | -5-6<br>5-12                              |   |                               |                          | -3-14<br>10-8                           |   |  |
|---|--|--|---|---|---|-------------------------------|--------------------------|---|---|--|
| Plate Offsets (X,Y)-  | - [4:0-1-8,Edge], [5:0-1-8   |  |   |   |   |                               | <b>.</b>                 |   |   |  |
| LOADING (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0   | SPACING-<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code IRC2021/T  | 1-7-3<br>1.00<br>1.00<br>YES<br>PI2014 | <b>CSI.</b><br>TC 0.38<br>BC 0.61<br>WB 0.39<br>Matrix-SH | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in (loc)<br>-0.10 25-26<br>-0.13 25-26<br>0.02 15   | l/defl<br>>999<br>>999<br>n/a | L/d<br>480<br>360<br>n/a | <b>PLATES</b><br>MT20<br>Weight: 120 lb | <b>GRIP</b><br>244/190<br>FT = 20%F, 11%E |  |
| TOP CHORD 2x4 SP No.1(flat) To<br>BOT CHORD 2x4 SP No.1(flat)   |  |  |   |   | BRACING-<br>TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except<br>end verticals.<br>BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.<br>213/0-4-8 (min. 0-1-8) |                               |                          |   |   |  |
| FORCES. (lb) - Ma<br>TOP CHORD 14-  | Grav 28=515(LC 3), 15=3<br>x. Comp./Max. Ten All f<br>15=-373/0, 2-3=-768/0, 3-<br>=-69/313, 8-9=0/1085, 9-'   | orces 250 (lb) c<br>4=-1345/0, 4-5     | or less except when s<br>=-1423/0, 5-6=-1011/             | 0, 6-7=-69/313,                           | 696/40  |                               |                          |   |   |  |
| BOT CHORD 27-<br>21-  | BOT CHORD 27-28=0/323, 26-27=0/1197, 25-26=0/1423, 24-25=0/1423, 23-24=0/14<br>21-22=-859/0, 20-21=-1085/0, 19-20=-399/442, 18-19=-399/442, 17-18<br>16-17=0/584 |  |   |   |   |                               |                          |   |   |  |
| WEBS 9-21=-590/0, 3-27=-558/0, 2-27=0/579, 2-28=-623/0, 5-23=-576/0, 6-23=0/496,<br>6-22=-787/0, 8-22=0/819, 8-21=-742/0, 9-20=0/712, 10-20=-656/0, 10-18=0/385,<br>12-18=-266/0, 13-16=-466/1, 14-16=0/387 |  |  |   |   |   |                               |                          |   |   |  |
| <b>NOTES-</b> (4-7)   |  |  |   |   |   |                               |                          |   |   |  |

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

2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

3) CAUTION. Do not erect truss backwards.

27

3x4 =

6x6 ||

26

3x4 =

25

1.5x3

24

1.5x3 ||

23

3x4 =

4) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.

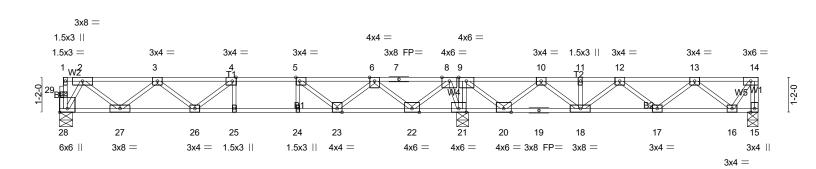
5) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

6) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

9. WHITH CARO PROFESSION IN SEAL 28147 MONEER F. MORRISHIM 3/207 7) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS Andreas and the second

LOAD CASE(S) Standard

| Job                        | Truss | Truss Type     | Qty                         | Ply                      | LOT 0.0092 BLAKE POND   122 WHIMBREL CO   | OURT LILLINGTON, NC                                  |
|----------------------------|-------|----------------|-----------------------------|--------------------------|---|--|
| 24-1221-F01                | F104  | FLOOR          | 3                           | 1                        | Job Reference (optional)  | # 46471  |
|                            |       | Run: 8<br>ID:7 | .430 s Feb 12<br>??9YjJntM1 | 2 2021 Print<br>7rR34001 | t: 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat<br>WujydnDB-rWCVZuTcvDPaQdrngM_XDeX | Mar 16 10:55:19 2024 Page 1<br>(VQFuh3ToXNb2i3wzaOec |
| 0-1-8                      |       |                |                             |                          |   |  |
| H <mark>9-6-2_1-3-0</mark> | H     | 2-0-0          | 0-3-12                      |                          |   | 0-7-8<br>Scale = 1:38.5                              |



|  | 5-10-10<br>5-10-10  | <u>β-10-10</u> 7-10-1<br>1-0-0 1-0-0  |   | -5-6<br>6-12  |  |   | <u>23-3-14</u><br>9-10-8   |   |
|--|---|---|---|---|--|---|--|---|
| Plate Offsets (X,Y)  | [4:0-1-8,Edge], [5:0-1-8  |   |   | -   |  |   |  |   |
| LOADING (psf)<br>TCLL 40.0<br>TCDL 60.0<br>BCLL 0.0<br>BCDL 5.0  | SPACING-<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code IRC2021/T   | 1-7-3<br>1.00<br>1.00<br>YES<br>PI2014  | <b>CSI.</b><br>TC 0.74<br>BC 0.71<br>WB 0.74<br>Matrix-SH   | Vert(CT)  | in (loc)<br>-0.09 25-26<br>-0.22 25-26<br>0.03 15  | l/defl L/d<br>>999 480<br>>713 360<br>n/a n/a | PLATES<br>MT20<br>Weight: 120 lb                                       | <b>GRIP</b><br>244/190<br>FT = 20%F, 11%E |
| WEBS 2x4 S   |   | 0-1-8) 15=509/  | ).4.8 (min 0.1.8) 2   | BRACING-<br>TOP CHOR<br>BOT CHOR  | end ve<br>D Rigid o<br>6-0-0 o   | erticals.                                     | g directly applied or 6-0<br>lied or 10-0-0 oc bracing<br>20-21,18-20. |   |
| TOP CHORD 14-1<br>7-8=<br>13-1<br>BOT CHORD 27-2<br>21-2<br>16-1<br>WEBS 4-25<br>2-28<br>9-20  | c. Comp./Max. Ten All f<br>5=-656/0, 2-3=-1430/0, 3<br>0/442, 8-9=0/2015, 9-10<br>4=-387/0<br>8=0/610, 26-27=0/2244,<br>(2=-1553/0, 20-21=-2015<br>7=0/1014<br>i=-256/0, 5-24=0/280, 9-3<br>i=-1177/0, 5-23=-1114/0,<br>i=0/1339, 10-20=-1258/0 | 3-4=-2496/ò, 4-5<br>=0/1021, 10-11=<br>25-26=0/2613, 2<br>/0, 19-20=-363/2<br>21=-1120/0, 3-26<br>6-23=0/929, 6-2   | =-2613/0, 5-6=-1781<br>-944/0, 11-12=-944/<br>24-25=0/2613, 23-24<br>69, 18-19=-363/469<br>5=0/329, 3-27=-1058<br>22=-1520/0, 8-22=0/                                   | I/0, 6-7=0/442,<br>/0, 12-13=-1150/0,<br>1=0/2613, 22-23=0/1<br>0, 17-18=0/1261,<br>8/0, 2-27=0/1068,<br>1555, 8-21=-1351/0,      |  |   |  |   |
| <ol> <li>2) Recommend 2x6 s<br/>be attached to wal</li> <li>3) CAUTION, Do not</li> <li>4) Graphical bracing<br/>the member must</li> <li>5) Bearing symbols a<br/>design of the truss</li> <li>6) Web bracing show<br/>Restraining &amp; Brac</li> <li>7) SEE BCSI-B3 SUI<br/>MINIMUM BRACII</li> </ol> | are only graphical repres<br>s to support the loads inc<br>wn is for lateral support o<br>cing of Metal Plate Conn<br>MMARY SHEET- PERM.<br>NG REQUIREMENTS O<br>WAYS CONSULT THE F   | paced at 10-0-0<br>restrained by oth<br>depict the size, t<br>entations of a po<br>licated.<br>f individual web t<br>ected Wood Tru<br>ANENT RESTR/<br>F TOP CHORD, | oc and fastened to e<br>er means.<br>ype or the orientatio<br>ssible bearing condi<br>members only. Refe<br>sses for additional b<br>NING/BRACING OF<br>BOTTOM CHORD, / | n of the brace on th<br>ition. Bearing symbo<br>r to BCSI - Guide to<br>racing guidelines, in<br>CHORDS & WEB M<br>AND WEB PLANES | e member. S<br>ols are not co<br>Good Practi<br>icluding diag<br>IEMBERS F<br>5. IN ADDITI | Symbol only indicat                           | stalling   | A BELLING                                 |

Warning !--Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

3/13/2024

| Job                         | Truss                            | Truss Typ                     | 9                  |                    | Qty                      | Ply                 | LOT 0.0                | 092 BLAKE P                | OND   122 WHIMBRE                       | EL COURT LI                 | LLINGTON, NC                   |                |
|-----------------------------|----------------------------------|-------------------------------|--------------------|--------------------|--------------------------|---------------------|------------------------|----------------------------|---|-----------------------------|--------------------------------|----------------|
| 24-1221-F01                 | F105                             | Floor                         |                    |                    | 1                        | ,                   | 1                      |                            |   |                             |                                |                |
| 24-1221-101                 | 1 105                            |                               |                    |                    | '<br>                    |                     | Job Re                 | ference (op                | tional)                                 |                             | 46471                          |                |
|                             |                                  |                               |                    | Run: 8.43<br>ID:72 | 80 s ⊦eb 12<br>2?9YjJntM | 2021 Pri<br>117rR34 | nt: 8.430 s<br>OOIWujy | Feb 12 2021<br>dnDB-Jjmtnl | MiTek Industries, Inc.<br>EUFgWXR1nQ_D4 | Sat Mar 16 1<br>Vmmr3flfEro | 0:55:20 2024 P<br>0x3gcFnFbNza | 'age<br>aOel   |
| 0-1-8                       |                                  |                               |                    |                    |                          |                     |                        |                            |   |                             |                                |                |
| H <mark>0-6-2 1-3-0</mark>  | -1                               | 2-0-0                         | 4                  | 0                  | -3-12                    |                     |                        |                            |   |                             | 0-7-8<br>Scale = 1             |                |
|                             | 1                                |                               |                    |                    |                          |                     |                        |                            |   |                             | Scale = 1                      | 1:38.5         |
|                             |                                  |                               |                    |                    |                          |                     |                        |                            |   |                             |                                |                |
|                             |                                  |                               |                    |                    |                          |                     |                        |                            |   |                             |                                |                |
| 3x4 =                       |                                  |                               |                    |                    |                          |                     |                        |                            |   |                             |                                |                |
| 1.5x3                       |                                  |                               | 3x                 | 4 =                | 4x6 =                    |                     |                        |                            |   |                             |                                |                |
| 1.5x3 =                     | 3x4 =                            | 3x4 =                         | 3x4 =              |                    | x6 =                     |                     | 3x4 =                  | = 1.5x3                    | 3x4 =                                   | 3x4 =                       | 4x6 =                          |                |
| <sup>1</sup> w <del>2</del> | 3                                | 4 t                           | 5 30 6             | 7 8                | 39                       |                     | 10                     | 11<br>T2                   | 12                                      | 13                          | 14                             |                |
|                             |                                  |                               |                    | ₹■₹                | AND -                    |                     | - Jet                  |                            |   | <u></u>                     | W311                           | Īc             |
| 29 <sub>8</sub>             |                                  |                               |                    |                    | W                        |                     | / `                    |                            |   | / \                         | . // []]                       |                |
|                             | ĕł <u></u> ĕł                    | 8                             |                    | <u>\</u>           |                          | <u> 18</u>          |                        |                            | B                                       |                             | 16 15                          | 1              |
| 28                          | 27 26                            | 25                            | 24 23              | 22                 | 21                       | 20                  | 19                     | 18                         | 17                                      |                             | 16 15                          |                |
| 6x6    3                    | x4 = 3x4 =                       | 1.5x3    1.5                  | 5x3    3x4 =       | 4x6 =              | 4x6 =                    | 4x6 =               | = 3x8 FP               | = 3x8 =                    | 3x4 =                                   |                             | 3x4                            |                |
|                             |                                  |                               |                    |                    |                          |                     |                        |                            |   |                             | 4x4 =                          |                |
|                             |                                  |                               |                    |                    |                          |                     |                        |                            |   |                             |                                |                |
|                             |                                  |                               |                    |                    |                          |                     |                        |                            |   |                             |                                |                |
|                             |                                  |                               |                    |                    |                          |                     |                        |                            |   |                             |                                |                |
|                             |                                  |                               |                    |                    |                          |                     |                        |                            |   |                             |                                |                |
| <u> </u>                    | 5-10-10<br>5-10-10               | 6-10-107-10-10<br>1-0-0 1-0-0 | 13                 | -5-6<br>6-12       |                          |                     |                        |                            | 3-3-14<br>9-10-8                        |                             |                                |                |
| Plate Offsets (X,Y)         | [4:0-1-8,Edge], [5:0-1-8         |                               |                    | 5-12               |                          |                     |                        |                            | 9-10-0                                  |                             |                                | -              |
| LOADING (psf)               | SPACING-                         | 1-7-3                         | CSI.               | DEFL.              | in                       | (loc)               | l/defl                 | L/d                        | PLATES                                  | GRIF                        |                                |                |
| TCLL Ä0.Ó                   | Plate Grip DOL                   | 1.00                          | TC 0.83            | Vert(LL)           |                          |                     | >999                   | 480                        | MT20                                    | 244/                        |                                |                |
| TCDL 10.0<br>BCLL 0.0       | Lumber DOL                       | 1.00<br>NO                    | BC 0.71<br>WB 0.68 | Vert(CT)           |                          | 25-26<br>15         | >999<br>n/a            | 360<br>n/a                 |   |                             |                                |                |
| BCDL 5.0                    | Rep Stress Incr<br>Code IRC2021/ |                               | Matrix-SH          | Horz(CT            | ) 0.02                   | 15                  | n/a                    | 11/a                       | Weight: 1                               |                             | = 20%F, 11                     | ~ <del>-</del> |

BRACING-

TOP CHORD

BOT CHORD

end verticals

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

SEAL

28147

K. MOR

3/13/2024

Rigid ceiling directly applied or 6-0-0 oc bracing.

LUMBER-

TOP CHORD 2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(flat)

2x4 SP No.3(flat) WFBS

REACTIONS. (lb/size) 28=497/0-5-6 (min. 0-1-8), 15=721/0-4-8 (min. 0-1-8), 21=2176/0-4-8 (min. 0-1-8) Max Grav 28=534(LC 3), 15=812(LC 4), 21=2176(LC 1)

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

TOP CHORD 14-15=-810/0, 2-3=-803/0, 3-4=-1427/0, 4-5=-1549/0, 5-30=-1176/89, 6-30=-1176/89, 6-7=-8/596, 7-8=-8/596, 8-9=0/1778, 9-10=-138/882, 10-11=-1478/234, 11-12=-1478/234, 12-13=-1522/0, 13-14=-487/0

| BOT CHORD | 27-28=0/336, 26-27=0/1252, 25-26=0/1549, 24-25=0/1549, 23-24=0/1549, 22-23=-255/842, |
|-----------|--|
|           | 21-22=-1407/0, 20-21=-1778/0, 19-20=-506/1043, 18-19=-506/1043, 17-18=-25/1739,      |
|           | 16-17=0/1281   |
| WEBS      | 9-21=-1203/0, 3-27=-584/0, 2-27=0/608, 2-28=-648/0, 5-23=-628/0, 6-23=0/503,         |
|           | 6-22=-1139/0, 8-22=0/1164, 8-21=-1198/0, 9-20=0/1418, 10-20=-1331/0, 10-18=0/713,    |

12-18=-490/0, 12-17=-283/113, 13-17=-82/313, 13-16=-1034/0, 14-16=0/834

NOTES-(4-7)

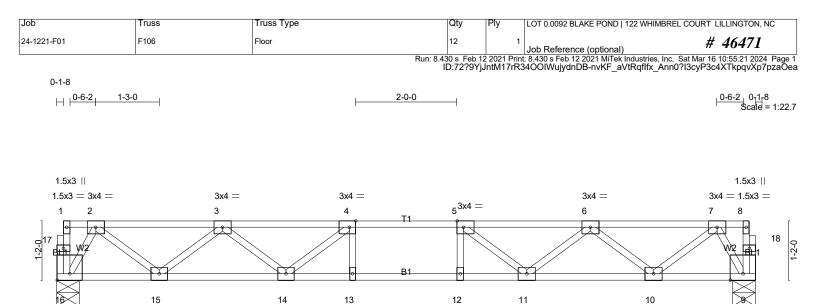
1) Unbalanced floor live loads have been considered for this design.

- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) CAUTION. Do not erect truss backwards.
- 4) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 5) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural
- 6) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, With CARO WRTH CARO POFESSI
- 7) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM
- GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS AND DIMENSION

# LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 15-28=-8, 1-30=-80, 14-30=-180



| ļ   | <u>5-10-10</u><br>5-10-10   | 6-10-<br>1-0-   |                       |  | -9-4<br>0-10  |               |
|---|---|---|-----------------------|--|---|---------------|
| Plate Offsets (X,Y)   | [4:0-1-8,Edge], [5:0-1-8,Edge], [16:Ed  | dge,0-3-0]  |                       |  |   |               |
| LOADING (psf)<br>TCLL 40.0<br>TCDL 10.0<br>BCLL 0.0<br>BCDL 5.0 | SPACING- 1-7-3<br>Plate Grip DOL 1.00<br>Lumber DOL 1.00<br>Rep Stress Incr YES<br>Code IRC2021/TPI2014 | <b>CSI.</b><br>TC 0.26<br>BC 0.52<br>WB 0.33<br>Matrix-SH | ( )                   | 9 11-12 >999 480<br>2 13-14 >999 360     | PLATES         GRIP           MT20         244/190           Weight: 70 lb         FT = | 20%F, 11%E    |
| LUMBER-<br>TOP CHORD 2x4 SF<br>BOT CHORD 2x4 SF                 |   |   | BRACING-<br>TOP CHORD | Structural wood sheathing end verticals. | directly applied or 6-0-0 oc pu   | rlins, except |

2x4 SP No.3(flat) WEBS

6x6 ||

BOT CHORD

1.5x3 ||

3x4 =

3x4 =

6x6 ||

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

# REACTIONS. (Ib/size) 16=590/0-5-6 (min. 0-1-8), 9=590/0-5-6 (min. 0-1-8)

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

- TOP CHORD 2-3=-903/0, 3-4=-1662/0, 4-5=-1907/0, 5-6=-1662/0, 6-7=-903/0
- BOT CHORD 15-16=0/373, 14-15=0/1410, 13-14=0/1907, 12-13=0/1907, 11-12=0/1907, 10-11=0/1410, 9-10=0/373

3x4 =

1.5x3 ||

4-14=-428/0, 3-14=0/355, 3-15=-660/0, 2-15=0/690, 2-16=-719/0, 5-11=-428/0, 6-11=0/355, 6-10=-660/0, 7-10=0/690, WEBS 7-9=-719/0

#### NOTES-(3-6)

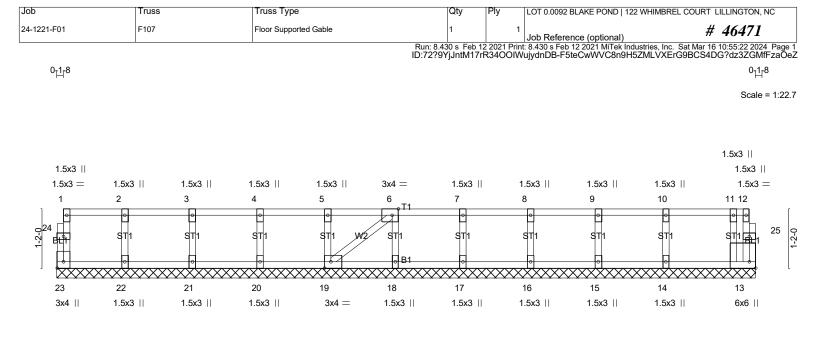
1) Unbalanced floor live loads have been considered for this design.

3x4 =

- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 4) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 5) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing. 6) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED
- MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

#### LOAD CASE(S) Standard





| Plate Offsets (X,Y)   | [6:0-1-8,Edge], [13:Edge,0-1-8], [19:0  | -1-8,Edge], [23:Edge,0-1                                  | 13-9-4<br>13-9-4<br>-8]                                   |            |   |  |   |
|---|---|---|---|------------|---|--|---|
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.00<br>Lumber DOL 1.00<br>Rep Stress Incr YES<br>Code IRC2021/TPI2014 | <b>CSI.</b><br>TC 0.06<br>BC 0.01<br>WB 0.03<br>Matrix-SH | DEFL. ir<br>Vert(LL) n/z<br>Vert(CT) n/z<br>Horz(CT) 0.00 | a -<br>a - | defi L/d<br>n/a 999<br>n/a 999<br>n/a n/a | <b>PLATES</b><br>MT20<br>Weight: 61 lb       | <b>GRIP</b><br>244/190<br>FT = 20%F, 11%E |
|   |   |   | BRACING-<br>TOP CHORD<br>BOT CHORD                        | end vertic | cals.                                     | irectly applied or 6-<br>or 10-0-0 oc bracir | 0-0 oc purlins, except<br>ng.             |

#### **REACTIONS.** All bearings 13-9-4.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 23, 13, 22, 21, 20, 19, 18, 17, 16, 15, 14

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

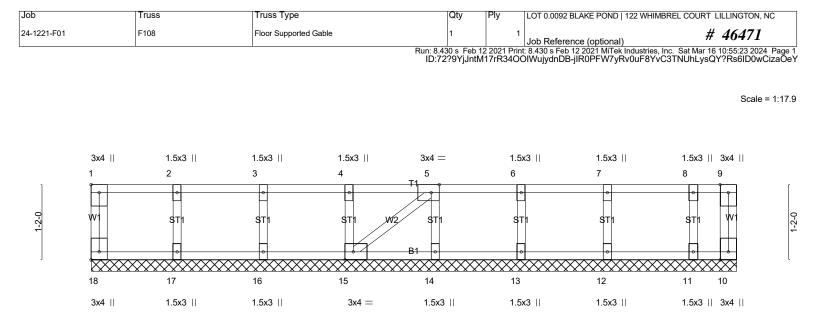
**NOTES-** (5-8)

1) Gable requires continuous bottom chord bearing.

- 2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 3) Gable studs spaced at 1-4-0 oc.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 6) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 7) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
   8) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED
- 8) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

#### LOAD CASE(S) Standard





|   |   |   | 10-0-0   |                |  |
|---|---|---|--|----------------|--|
| I   |   |   | 10-0-0   |                | I  |
| Plate Offsets (X,Y)   | [1:Edge,0-1-8], [5:0-1-8,Edge], [15:0-  | 1-8,Edge], [18:Edge,0-1-                                  | 8]   |                |  |
| LOADING (psf)<br>TCLL 40.0<br>TCDL 10.0<br>BCLL 0.0<br>BCDL 5.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.00<br>Lumber DOL 1.00<br>Rep Stress Incr YES<br>Code IRC2021/TPI2014 | <b>CSI.</b><br>TC 0.06<br>BC 0.01<br>WB 0.03<br>Matrix-SH | DEFL. ii<br>Vert(LL) n/a<br>Vert(CT) n/a<br>Horz(CT) -0.00 | a - n/a 999    | PLATES         GRIP           MT20         244/190           Weight: 47 lb         FT = 20%F, 11%E |
|   |   |   | BRACING-<br>TOP CHORD<br>BOT CHORD                         | end verticals. | ng directly applied or 10-0-0 oc purlins, except<br>blied or 10-0-0 oc bracing.                    |

10-0-0

#### REACTIONS. All bearings 10-0-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

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

**NOTES-** (5-8)

1) Gable requires continuous bottom chord bearing.

- 2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 3) Gable studs spaced at 1-4-0 oc.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 6) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 7) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
   8) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED
- 8) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

#### LOAD CASE(S) Standard



| 000               | 11000                  |  |   |
|-------------------|------------------------|--|---|
| 24-1221-F01       | F109                   | Floor Supported Gable                  | <sup>2</sup> 1 Job Reference (optional) # 46471   |
|                   |                        |  | 430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Mar 16 10:55:25 2024 Page 1<br>:72?9YjJntM17rR34OOIWujydnDB-fgZmqxYNU39k8YIx0d5xTvngDg6zTLIPIXV0GazaOeV |
|                   |                        |  | 0-1-8   |
|                   |                        |  | Scale = 1:35.6  |
|                   |                        |  |   |
|                   |                        |  |   |
|                   |                        | 1.5x3    1.5x3                         | 1.5x3   |
| 3x4    1.5x3    1 | .5x3    1.5x3    1.5x3 | 3x8 FP= 1.5x3    3x4 = 1.5x            | 5x3    1.5x3    1.5x3    1.5x3    1.5x3    1.5x3    1.5x3    1.5x3    1.5x3 =   |
| 1 2               | 3 4 5                  | 6 7 8 9 10 11                          | 11 12 13 14 15 16 17 18<br>T2   |
|                   |                        | STI1 STI1 STI1 W2 STI1 ST              |   |
|                   |                        | STI STI STI W2 STI ST                  |   |
|                   |                        | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX |   |
| 36 35             | 34 33 32               | 31 30 29 28 27                         | 27 26 25 24 23 22 21 20 19  |
| 3x4    1.5x3    1 | .5x3    1.5x3    1.5x3 | 1.5x3    1.5x3    3x4 = 1.5x3    1.5x  | 5x3    3x8 FP= 1.5x3    1.5x3    1.5x3    1.5x3    3x4  |
|                   |                        |  | 1.5x3    1.5x3  |
|                   |                        |  |   |

Qtv

Plv

LOT 0.0092 BLAKE POND | 122 WHIMBREL COURT LILLINGTON, NC

| 1   |   |  | 21-7-6  |         |   |   | 1   |
|---|---|--|---|---------|---|---|---|
| F   |   |  | 21-7-6  |         |   |   | 1   |
| Plate Offsets (X,Y)   | [1:Edge,0-1-8], [10:0-1-8,Edge], [29:0  | )-1-8,Edge], [36:Edge,0-1                          | 1-8]  |         |   |   |   |
| LOADING (psf)<br>TCLL 40.0<br>TCDL 10.0<br>BCLL 0.0<br>BCDL 5.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.00<br>Lumber DOL 1.00<br>Rep Stress Incr YES<br>Code IRC2021/TPI2014 | CSI.<br>TC 0.08<br>BC 0.01<br>WB 0.04<br>Matrix-SH | DEFL. in<br>Vert(LL) n/a<br>Vert(CT) n/a<br>Horz(CT) 0.00 | -       | l/defl L/d<br>n/a 999<br>n/a 999<br>n/a n/a | PLATES<br>MT20<br>Weight: 92 lb                 | <b>GRIP</b><br>244/190<br>FT = 20%F, 11%E |
|   |   |  | BRACING-<br>TOP CHORD<br>BOT CHORD                        | end ver | rticals.                                    | directly applied or 6-<br>d or 10-0-0 oc bracir | 0-0 oc purlins, except<br>ng.             |

## REACTIONS. All bearings 21-7-6.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 36, 19, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 24, 23, 22, 21, 20

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

## NOTES- (6-9)

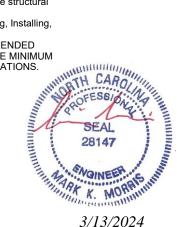
Job

Truss

Truss Type

- 1) Gable requires continuous bottom chord bearing.
- 2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 3) Gable studs spaced at 1-4-0 oc.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.
- 6) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 7) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 8) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
- 9) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

#### LOAD CASE(S) Standard



| Job  | Truss  | Truss Type  | Qty Ply  | LOT 0.0092 BLAKE PON                             | D   122 WHIMBREL COU                              | RT LILLINGTON, NC  |
|--|--|---|--|--|---|--|
| 24-1221-F01  | F110   | Floor   | 7 1  | Job Reference (option                            |   | # 46471  |
|  |  |   | Run: 8.430 s Feb 12 2021 Print<br>ID:72?9YjJntM17rR34  | 8.430 s Feb 12 2021 MiT<br>OOIWujydnDB-8s781I    | ek Industries, Inc. Sat Ma<br>HZ?FMHblit7aKcA?6JI | ar 16 10:55:26 2024 Page 1<br>n4HYCfjZ_BEap0zaOeV  |
| 120  | 114  | 108 000   | 2.0  | 0  |   | 0-1-8  |
| <u> </u>   | <u>⊢1-1-4</u>  | <u>1-0-8</u>     <mark>0-9-0</mark>   | <u> </u>   | -0   |   | 0-10-10<br>Scale = 1:36.3  |
|  |  |   |  |  |   |  |
|  |  |   |  |  |   |  |
|  |  |   |  |  |   | 4.5-2.11   |
| 3x6 =  | 3x4 = 3x6 =  | 4x6 = 3x4    3x4 = 3x8  | FP= 3x4 = 3x4 =  | 3x4 =  | 3x4 =   | 1.5x3 ∥<br>3x4 = 1.5x3 =   |
| 1  | 2 3 T1   | 4 5 6 7   | 8 9  | 10<br>•T2  | 11  | 12 13  |
| 1-2-0  | 100 W3   | W4 W5   |  |  |   |  |
|  |  |   |  | B2 📷   |   |  |
| 26 25  | 24 23  | 22 21   | 20 19 18   | 17 16  | 15  |  |
| 3x4    4x4   | = 3x6 = 4x6  | = 3x8 = 3x4   | = 3x8 FP= 3x4 = 1.5x3  | 1.5x3    3x4 =                                   | = 3x4 =   | 6x6  |
|  |  |   |  |  |   |  |
|  |  |   |  |  |   |  |
|  |  |   |  |  |   |  |
| . 3-   | 11-12 , 7  | 7-9-4   | 13-9-4 , 14-9-4 ,  | 15-9-4   | 22-0-6  |  |
| 3-   |  | 3-9-8   | 6-0-0 1-0-0  | 1-0-0  | 6-3-2   |  |
| OADING (psf)   |  | -7-3 <b>CSI</b> .   | DEFL. in (loc)   | /defl L/d  | PLATES  | GRIP   |
| CLL 40.0<br>CDL 10.0   |  | 1.00         TC         0.47           1.00         BC         0.76           | Vert(LL) -0.11 16-17   | >999 480<br>>999 360                             | MT20  | 244/190  |
| CLL 0.0<br>CDL 5.0   |  | NO WB 0.60  | Horz(CT) 0.02 14   | n/a n/a  | Weight: 114 lb                                    | FT = 20%F, 11%E  |
| UMBER-   |  |   | BRACING-   |  |   |  |
| OP CHORD 2x4 S<br>BOT CHORD 2x4 S  |  |   |  |  | rectly applied or 6-0-                            | 0 oc purlins, except   |
|  | SP No.3(flat)  |   | BOT CHORD Rigid ce   | ling directly applied of bracing: 22-23,21-22    |   | , Except:  |
| REACTIONS. (Ib/s   | ze) 26=608/0-4-8 (min. 0-1<br>Grav26=706(LC 3), 14=534   | 1-8), 14=507/0-5-6 (min. 0-1-8), 2  |  | bracing. 22-20,21-22                             | 2,10-21.  |  |
|  |  |   | hour   |  |   |  |
| OP CHORD 1-2   | 6=-702/0, 1-2=-810/0, 2-3=-1   | and the second second second  | 18, 5-6=0/1507, 6-7=-102/407, 7-8  | 102/407,   |   |  |
| OT CHORD 24-   |  | 2-23=-712/237, 21-22=-972/0, 20   | -21=-174/704, 19-20=-174/704, 18   | -19=0/1522,                                      |   |  |
| VEBS 3-2   |  | 5=-925/0, 2-24=-15/623, 3-23=-13  | 312/0, 4-23=0/1261, 4-22=-1493/0   | , 9-19=-642/0,                                   |   |  |
|  | 9=0/538, 8-21=-820/0, 6-21=  | 0/856, 6-22=-942/0, 11-15=-540/0  | ), 12-15=0/563, 12-14=-715/0   |  |   |  |
|  | live loads have been consid  |   |  |  |   |  |
| A Recommend 2x6  |  |   | each truss with 3-10d (0.131" X 3")  | nails. Strongbacks                               | to  |  |
| be attached to wa  | alls at their outer ends or rest   |   |  |  |   |  |
| <ul> <li>be attached to was</li> <li>CAUTION, Do not</li> </ul>  | t erect truss backwards.   | pict the size, type or the orientatio   | n of the brace on the member. Sy   | mbol only indicates th                           | nat   |  |
| <ul> <li>be attached to way</li> <li>CAUTION, Do not</li> <li>Graphical bracing<br/>the member mus</li> </ul>  | t erect truss backwards.<br>g representation does not dep<br>t be braced.  |   |  | •  |   |  |
| <ul> <li>be attached to wa</li> <li>CAUTION, Do no</li> <li>Graphical bracing<br/>the member mus</li> <li>Bearing symbols<br/>design of the trus</li> </ul>  | t erect truss backwards.<br>g representation does not dep<br>t be braced.<br>are only graphical representa<br>s to support the loads indica                                    | ations of a possible bearing condi<br>ted.                                    | tion. Bearing symbols are not con  | sidered in the structu                           | ral   |  |
| be attached to wa<br>be attached to wa<br>be Graphical bracing<br>the member mus<br>bearing symbols<br>design of the trus<br>bearing some some some some<br>bearing some some some some some<br>bearing some some some some some some<br>bearing some some some some some some some some | t erect truss backwards.<br>g representation does not dep<br>t be braced.<br>are only graphical represent<br>s to support the loads indica<br>wn is for lateral support of ind | ations of a possible bearing condi<br>ted.<br>dividual web members only. Refe | tion. Bearing symbols are not con  | sidered in the structu<br>for Handling, Installi | ral   |  |
| be attached to wa<br>be attached to wa<br>be Graphical bracing<br>the member mus<br>bearing symbols<br>design of the trus<br>bearing some some some some<br>bearing some some some some some<br>bearing some some some some some some<br>bearing some some some some some some some some | t erect truss backwards.<br>g representation does not dep<br>t be braced.<br>are only graphical represent<br>s to support the loads indica<br>wn is for lateral support of ind | ations of a possible bearing condi<br>ted.<br>dividual web members only. Refe | tion. Bearing symbols are not con  | sidered in the structu<br>for Handling, Installi | ral<br>ing,<br>UM,                                | unin.  |
| be attached to wa<br>CAUTION, Do no<br>Graphical bracing<br>the member mus<br>Bearing symbols<br>design of the trus  | t erect truss backwards.<br>g representation does not dep<br>t be braced.<br>are only graphical represent<br>s to support the loads indica<br>wn is for lateral support of ind | ations of a possible bearing condi<br>ted.<br>dividual web members only. Refe | tion. Bearing symbols are not con  | sidered in the structu<br>for Handling, Installi | ral<br>ing,<br>UM,                                |  |
| be attached to wa<br>be attached to wa<br>be Graphical bracing<br>the member mus<br>bearing symbols<br>design of the trus<br>bearing some some some some<br>bearing some some some some some<br>bearing some some some some some some<br>bearing some some some some some some some some | t erect truss backwards.<br>g representation does not dep<br>t be braced.<br>are only graphical represent<br>s to support the loads indica<br>wn is for lateral support of ind | ations of a possible bearing condi<br>ted.<br>dividual web members only. Refe | tion. Bearing symbols are not con  | sidered in the structu<br>for Handling, Installi | ral<br>ing,<br>UM,                                |  |
| be attached to wa<br>be attached to wa<br>be Graphical bracing<br>the member mus<br>bearing symbols<br>design of the trus<br>bearing some some some some<br>bearing some some some some some<br>bearing some some some some some some<br>bearing some some some some some some some some | t erect truss backwards.<br>g representation does not dep<br>t be braced.<br>are only graphical represent<br>s to support the loads indica<br>wn is for lateral support of ind | ations of a possible bearing condi<br>ted.<br>dividual web members only. Refe | tion. Bearing symbols are not con  | sidered in the structu<br>for Handling, Installi | ral<br>ing,<br>UM,                                |  |
| be attached to wa<br>be attached to wa<br>be Graphical bracing<br>the member mus<br>bearing symbols<br>design of the trus<br>bearing some some some some<br>bearing some some some some some<br>bearing some some some some some some<br>bearing some some some some some some some some | t erect truss backwards.<br>g representation does not dep<br>t be braced.<br>are only graphical represent<br>s to support the loads indica<br>wn is for lateral support of ind | ations of a possible bearing condi<br>ted.<br>dividual web members only. Refe | tion. Bearing symbols are not con  | sidered in the structu<br>for Handling, Installi | ral<br>ing,<br>UM,                                | Mummun and a second   |
| be attached to wa<br>b) CAUTION, Do no<br>c) Graphical bracing<br>the member mus<br>b) Bearing symbols<br>design of the trus<br>b) Web bracing sho   | t erect truss backwards.<br>g representation does not dep<br>t be braced.<br>are only graphical represent<br>s to support the loads indica<br>wn is for lateral support of ind | ations of a possible bearing condi<br>ted.<br>dividual web members only. Refe | tion. Bearing symbols are not con  | sidered in the structu<br>for Handling, Installi | ral<br>ing,<br>UM,                                | Solution and the solution of t |
| be attached to wa<br>CAUTION, Do no<br>Graphical bracing<br>the member mus<br>Bearing symbols<br>design of the trus  | t erect truss backwards.<br>g representation does not dep<br>t be braced.<br>are only graphical represent<br>s to support the loads indica<br>wn is for lateral support of ind | ations of a possible bearing condi<br>ted.<br>dividual web members only. Refe | tion. Bearing symbols are not con<br>to BCSI - Guide to Good Practice<br>racing guidelines, including diagor | sidered in the structu<br>for Handling, Installi | ral<br>ing,<br>UM,                                |  |

| lob  | Truss   | Truss Type  | Qty                             | Ply LOT 0.0092 BLAKE F   | OND   122 WHIMBREL COURT LILLINGTON, I             |
|--|---|---|---------------------------------|--|--|
| 24-1221-F01  | F111  | Floor   | 1                               | 1  | # 46471  |
|  |   |   | Run: 8.430 s Feb                | Job Reference (op<br>12 2021 Print: 8.430 s Feb 12 2021<br>ptM17rP24COW/wivdp.DP 455 | MiTek Industries, Inc. Sat Mar 16 10:55:28 2024    |
| 1-3-0  |   | 0-8-8   | 1-0-8                           | nuwi //RS4001wujyunDB-4FF  | vSzaGn_XJ?01Whlee4XP75t4Bgd4rRVjgt<br>1-1-12       |
| ſ  |   | r1  | · · · · ·                       |  | Scale  |
|  |   |   |                                 |  | Odde   |
|  |   |   |                                 |  |  |
|  |   |   |                                 |  |  |
| 3x6 =  | 3x4 = 3x8 FP  | = 3x4 = 3x6 =   | 3x4 = 3x6 =                     | 3x4 =  | 3x4 = 3x6 =  |
| , 1  | 2 3   | 4 5   | 6 7<br>T                        | 2 8  | 9 10   |
|  |   | W3  |                                 |  | WE WI  |
|  |   |   |                                 |  |  |
|  |   |   |                                 |  | 4 13 12  |
|  | 20 19   | 18 17   |                                 |  |  |
| 3x4  | 3x4 = 3x4   | = $3x6 = 3x$  | 4 = 3x6 =                       | 3x4 = 3  | x4 = 3x8 FP = 3x4 = 3x4                            |
|  |   |   |                                 |  |  |
|  |   |   |                                 |  |  |
|  |   |   |                                 |  |  |
|  |   |   | 0.40.0                          | -  | 7.10   |
|  | 6-1-0<br>6-1-0  |   | 9-10-8<br>3-9-8                 |  | 7-12<br>9-4  |
|  | [21:Edge,0-1-8]   |   |                                 |  |  |
| LOADING (psf)<br>FCLL 40.0   | SPACING-<br>Plate Grip DOL  | 1-7-3 <b>CSI.</b><br>1.00 TC 0.36   |                                 | n (loc) l/defl L/d<br>3 18-19 >999 480   | PLATES         GRIP           MT20         244/190 |
| TCDL 10.0<br>BCLL 0.0  | Lumber DOL<br>Rep Stress Incr   | 1.00 BC 0.23<br>NO WB 0.35  |                                 | 4 18-19 >999 360<br>1 16 n/a n/a   |  |
| BCDL 5.0   | Code IRC2021/1  |   |                                 |  | Weight: 95 lb FT = 20%F,                           |
|  |   |   | BRACING-                        |  |  |
| TOP CHORD 2x4<br>BOT CHORD 2x4   | SP No.1(flat)   |   | TOP CHORD                       | end verticals.   | directly applied or 6-0-0 oc purlins, e.           |
|  | SP No.3(flat)   |   | BOT CHORD                       | Rigid ceiling directly applie  | ed or 6-0-0 oc bracing.                            |
| Мах  | k Uplift11=-19(LC 3)  | 0-1-8), 11=201/0-4-8 (min. 0-1  | I-8), 16=1159/0-4-8 (min. 0-1   | -8)  |  |
| Max  | k Grav 21=439(LC 3), 11=2   | 275(LC 4), 16=1159(LC 1)  |                                 |  |  |
|  |   | forces 250 (lb) or less except w<br>, 1-2=-464/0, 2-3=-978/0, 3-4=-9  |                                 | /44 6-7=0/946 7-8=0/568  |  |
| 8-9  | 9=-382/230  | 17-18=0/1041, 15-16=-946/0,   |                                 |  |  |
| WEBS 7-  | 16=-510/0, 7-15=0/591, 8-   | 15=-544/0, 9-12=-272/84, 10-12  |                                 |  |  |
|  | 17=0/743, 6-16=-950/0   |   |                                 |  |  |
| NOTES- (5-8)<br>1) Unbalanced floo   | r live loads have been cor  | nsidered for this design.   |                                 |  |  |
|  |   | ) of truss to bearing plate capat<br>baced at 10-0-0 oc and fastene   |                                 |  | ks to  |
| be attached to w   |   | restrained by other means.  | ,                               | , 0  |  |
| 5) Graphical bracin  | ig representation does not  | depict the size, type or the orie   | ntation of the brace on the m   | ember. Symbol only indicate  | s that   |
|  | s are only graphical repres   | entations of a possible bearing   | condition. Bearing symbols a    | re not considered in the stru  | ctural   |
| 7) Web bracing sho   | ss to support the loads inc<br>own is for lateral support o                   | f individual web members only.  | Refer to BCSI - Guide to Goo    | od Practice for Handling, Ins  | talling,   |
| Restraining & Br<br>8) SEE BCSI-B3 S   | racing of Metal Plate Conn<br>UMMARY SHEET- PERM                              | ected Wood Trusses for addition   | onal bracing guidelines, incluc | ling diagonal bracing.<br>BERS FOR RECOMMEND   | D MUMMINIA CAR                                     |
|  | CING REQUIREMENTS O   | ected Wood Trusses for additic<br>ANENT RESTRAING/BRACING<br>F TOP CHORD, BOTTOM CHO<br>PROJECT ARCHITECT OR EN | ORD, AND WEB PLANES. IN         | ADDITION TO THESE MIN  | IIMUM SEESSI                                       |
|  |   | INOJECT ANOTHEOT ON EN  | GINEERTORADDITIONAL             |  | IIMUM SOFESSION ANTI                               |
|  |   |   |                                 |  | SEAL E   |
| LOAD CASE(S) St<br>1) Dead + Floor Liv   | andard<br>/e (balanced): Lumber Inci  | ease=1.00, Plate Increase=1.0   | 0                               |  |  |
| LOAD CASE(S) Sta<br>1) Dead + Floor Liv<br>Uniform Loads ()                                | andard<br>/e (balanced): Lumber Inci<br>plf)                                  | ease=1.00, Plate Increase=1.0   | 0                               |  | 28147  |
| LOAD CASE(S) St<br>1) Dead + Floor Liv<br>Uniform Loads ()<br>Vert: 11-<br>Concentrated Lo | andard<br>/e (balanced): Lumber Inci<br>plf)<br>·21=-8, 1-10=-80<br>bads (lb) | rease=1.00, Plate Increase=1.0  | 0                               |  | 28147  |
| LOAD CASE(S) St<br>1) Dead + Floor Liv<br>Uniform Loads (j<br>Vert: 11-                    | andard<br>/e (balanced): Lumber Inci<br>plf)<br>·21=-8, 1-10=-80<br>bads (lb) | rease=1.00, Plate Increase=1.0  | 0                               |  | SEAL<br>28147                                      |
| LOAD CASE(S) St<br>1) Dead + Floor Liv<br>Uniform Loads ()<br>Vert: 11-<br>Concentrated Lo | andard<br>/e (balanced): Lumber Inci<br>plf)<br>·21=-8, 1-10=-80<br>bads (lb) | rease=1.00, Plate Increase=1.0  | 0                               |  | SEAL<br>28147<br>3/13/2024                         |

| Job                                  | Truss  | Truss Type  | Qty                        | Ply LC                               | DT 0.0092 BLAKE PC                      | ND   122 WHIMBREL CC                                | URT LILLINGTON, NC                                |
|--------------------------------------|--|---|----------------------------|--------------------------------------|---|---|---|
| 24-1221-F01                          | F112   | Floor   | 11                         | 1                                    | b Reference (option                     | onal)   | # 46471   |
|                                      |  |   | Run: 8.430 s Fe<br>ID:72?9 | b 12 2021 Print: 8.<br>YjJntM17rR34O | 430 s Feb 12 2021 M<br>OlWujydnDB-YRp   | liTek Industries, Inc. Sat I<br>HgJbuYHfAcAciFT9tdl | Mar 16 10:55:29 2024 Page<br>xIqHJ?P3j?g9TEPLzaOe |
| 1.2.0                                |  | 1 1 1 2   |                            | 2.0.0                                |   |   | 0-1-8   |
| 1-3-0                                |  | <u>  1-1-12</u>   <mark>0-9-0</mark>  |                            | 2-0-0                                | ——————————————————————————————————————— |   | <u>0-10-10</u><br>Scale = 1:36                    |
|                                      |  |   |                            |                                      |   |   |   |
|                                      |  |   |                            |                                      |   |   |   |
|                                      |  |   |                            |                                      |   |   |   |
| 3x6 =                                | 3x4<br>3x4 =   | —<br>3x8 FP= 3x6 = 3x4 =  | 3x4 =                      | 3x4 =                                | 3x4 =                                   | 3x4 =   | 1.5x3   <br>3x4 = 1.5x3 =                         |
| 1                                    | <sup>2</sup> <sub>1</sub> 3                              | 4 5 6   | 7                          | 8<br>72                              | 9                                       | 10  | 11 12   |
| 1-2-0                                |  | W3 W4   |                            |                                      |   |   |   |
|                                      |  |   |                            | 0                                    | B2 6                                    |   |   |
| 25 24                                | 23   | 22 21 2   | 0 19 18                    | 17                                   | 16 15                                   | 14  |   |
| 3x4    3x4 =                         | = 3x4 =  | 3x4 = 3x6 = 3x  | 4 = 3x8 FP = 3x4 =         | 1.5x3                                | 1.5x3    3x4                            | = 3x4 =   | 6x6   |
|                                      |  |   |                            |                                      |   |   |   |
|                                      |  |   |                            |                                      |   |   |   |
|                                      |  |   |                            |                                      |   |   |   |
| L                                    | 7-9-4  |   | 13-9-4                     | 14-9-4 15                            | 5-9-4                                   | 22-0-6  |   |
| Plate Offsets (X,Y)                  | 7-9-4<br>[8:0-1-8,Edge], [9:0-1-8,E                      | dge], [25:Edge,0-1-8]   | 6-0-0                      | ' 1-0-0 ' 1·                         | -0-0                                    | 6-3-2   |   |
| OADING (psf)                         |  | 1-7-3 <b>CSI</b> .  | DEFL.                      | in (loc) l/d                         |   | PLATES  | GRIP  |
| TCLL 40.0<br>TCDL 10.0               | Plate Grip DOL<br>Lumber DOL                             | 1.00         TC         0.36           1.00         BC         0.64   |                            | .11 15-16   >99<br>.15 15-16   >99   |   | MT20  | 244/190   |
| BCLL 0.0<br>BCDL 5.0                 | Rep Stress Incr<br>Code IRC2021/TP                       | YES WB 0.39<br>2014 Matrix-SH   | Horz(CT) 0                 | .02 13 n                             | /a n/a                                  | Weight: 112 II                                      | o FT = 20%F, 11%E                                 |
| LUMBER-                              |  |   | BRACING-                   |                                      |   |   |   |
| TOP CHORD 2x4 SI<br>BOT CHORD 2x4 SI | P No.1(flat)   |   | TOP CHORD                  | end vertica                          | lls.                                    |   | 0-0 oc purlins, except                            |
|                                      | P No.3(flat)   |   | BOT CHORD                  | 0                                    | g directly applied                      | l or 6-0-0 oc bracing                               |   |
| Max l                                | Jplift25=-49(LC 4)                                       | -1-8), 21=1198/0-4-8 (min. 0-1-8  | ), 13=532/0-5-6 (min. (    | )-1-8)                               |   |   |   |
|                                      | Grav 25=278(LC 3), 21=11                                 |   |                            |                                      |   |   |   |
| TOP CHORD 1-25                       | =-273/52, 2-3=-387/350, 3                                | ces 250 (lb) or less except when<br>-4=0/765, 4-5=0/765, 5-6=0/1134   |                            |                                      |   |   |   |
|                                      | -1568/0, 9-10=-1505/0, 10<br>4=-193/457, 22-23=-534/2    | -11=-946/0<br>92, 21-22=-1134/0, 20-21=-657/0   | 0, 19-20=0/775, 18-19=     | 0/775,                               |   |   |   |
|                                      |  | 15-16=0/1568, 14-15=0/1367, 1<br>-24=-270/133, 2-23=-250/0, 3-23  |                            |                                      |   |   |   |
|                                      | =0/610, 8-18=-570/0, 7-18<br>4=-549/0, 11-14=0/573, 11   | =0/491, 7-20=-788/0, 6-20=0/824<br>-13=-725/0   | 4, 6-21=-888/0,            |                                      |   |   |   |
| NOTES- (5-8)                         |  |   |                            |                                      |   |   |   |
|                                      | ive loads have been consi<br>al connection (by others) o | dered for this design.<br>f truss to bearing plate capable o  | of withstanding 49 lb up   | ift at ioint 25.                     |   |   |   |
| 3) Recommend 2x6 s                   |  | ced at 10-0-0 oc and fastened to  |                            |                                      | ails. Strongback                        | s to  |   |
| 4) CAUTION, Do not                   | erect truss backwards.                                   | epict the size, type or the orienta   | tion of the brace on the   | member. Svmb                         | ol only indicates                       | that  |   |
| the member must                      | be braced.   | tations of a possible bearing con   |                            | -                                    |   |   |   |
| design of the truss                  | to support the loads indic                               | ated.<br>ndividual web members only. Re<br>ted Wood Trusses for additional<br>IENT RESTRAING/BRACING O<br>FOP CHORD, BOTTOM CHORE | fer to BCSI - Guide to C   | ood Practice fo                      | or Handling Insta                       | Illing Multimining                                  | Itter   |
| Restraining & Brad                   | ing of Metal Plate Connec                                | ted Wood Trusses for additional   | bracing guidelines, incl   | uding diagonal                       | bracing.                                | NUM QHOFESSI  | LIN HILL  |
|                                      | NG REQUIREMENTS OF                                       | TOP CHORD, BOTTOM CHORE<br>OJECT ARCHITECT OR ENGIN   | ), AND WEB PLANES.         |                                      |   | MUM QR-   | ALR IN  |
| LOAD CASE(S) Star                    |  | SUCCE ANOTHER OF ENGIN  |                            |                                      |   | SEAL<br>28147                                       |   |
| LOAD OADL(D) Star                    | uaiu   |   |                            |                                      |   |   |   |
|                                      |  |   |                            |                                      |   | A SNOINEE   | A IS INT  |
|                                      |  |   |                            |                                      |   | MARK K. M   | 8.000<br>2024                                     |
|                                      |  |   |                            |                                      |   | 3/13/2  | 2024  |
| Warning !—Verify d                   | esign parameters and read n                              | otes before use. This design is based   | only upon parameters show  | n, and is for an ind                 |   |   |   |