

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0223-0756 Lot 52 Liberty Meadows

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I56692999 thru I56693010

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



February 16,2023

# Gilbert, Eric

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

| · · ·         |           | _           |        |       |         |     |    |        |          |         | <u>.</u> |      |          |           |          |       |      |    |        |                       |
|---------------|-----------|-------------|--------|-------|---------|-----|----|--------|----------|---------|----------|------|----------|-----------|----------|-------|------|----|--------|-----------------------|
| Job           |           | Truss       |        |       | Truss 1 | уре |    |        |          | ľ       | Qty      | Ply  | Lot 52   | Liberty I | Meadow   | S     |      |    |        | 156692999             |
| J0223-0756    |           | ET-1        |        |       | GABLE   |     |    |        |          |         | 1        | 1    |          |           |          |       |      |    |        | 130032333             |
|               |           |             |        |       |         |     |    |        |          |         |          |      |          |           | (optiona |       |      |    |        |                       |
| Comtech, Inc, | Fayettevi | lle, NC - 2 | 28314, |       |         |     |    |        |          | ID:gZkl |          |      |          |           |          |       |      |    |        | 23 Page 1<br>RJszkXvU |
| 0-1-8         |           |             |        |       |         |     |    |        |          |         |          |      |          |           |          |       |      |    |        | 0-1-8                 |
|               |           |             |        |       |         |     |    |        |          |         |          |      |          |           |          |       |      |    |        | Scale = 1:51.7        |
|               |           |             |        |       |         |     |    |        |          |         |          |      |          |           |          |       |      |    |        |                       |
|               |           |             |        |       |         |     |    |        |          |         |          |      |          |           |          |       |      |    |        |                       |
|               |           |             |        |       |         |     |    |        |          |         |          |      |          |           |          |       |      |    |        |                       |
|               |           |             |        |       |         |     |    |        |          |         |          |      |          |           |          |       |      |    |        |                       |
|               |           |             |        |       |         |     |    |        | 3x6      | 5  FP = |          |      |          |           |          |       |      |    |        |                       |
| 1 2           | 3         | 4 5         | 56     | 67    | 8       | 9   | 10 | 11     | 12 1     | 3 14 1  | 5 1      | 6 17 | 18       | 19        | 20       | 21    | 22   | 23 | 24     | 25                    |
|               | 0         | 8           | 9      | 9     |         |     | 8  | 8      | <u>e</u> |         |          |      | <u>@</u> | 9         |          | 9     | 8    | 8  | 8      | 52 -2-1               |
|               | ~~~~~~    |             | ****** |       | ~~~~    |     |    | ~~~~~~ | ~~~~~~   |         |          |      | ~~~~     |           | ~~~~~    | ~~~~~ | ~~~~ |    | ****** |                       |
| 50 49         | 48        | 47 4        | 46 4   | 45 44 | 43      | 42  | 41 | 40     | 39 38    | 37 3    | 6 3      | 5 34 | 33       | 32        | 31       | 30    | 29   | 28 | 27     | 26                    |
| 3x4 =         |           |             |        |       |         |     |    |        | 3x6 FP=  | :       |          |      |          |           |          |       |      |    |        | 3x4 =                 |
|               |           |             |        |       |         |     |    |        |          |         |          |      |          |           |          |       |      |    |        |                       |
|               |           |             |        |       |         |     |    |        |          |         |          |      |          |           |          |       |      |    |        |                       |
|               |           |             |        |       |         |     |    |        |          |         |          |      |          |           |          |       |      |    |        |                       |
|               |           |             |        |       |         |     |    |        |          |         |          |      |          |           |          |       |      |    |        |                       |
|               |           |             |        |       |         |     |    |        |          |         |          |      |          |           |          |       |      |    |        |                       |

# $+ \frac{1.4-0}{1.4-0} + \frac{2.8-0}{1.4-0} + \frac{4.0-0}{1.4-0} + \frac{5.4-0}{1.4-0} + \frac{6.8-0}{1.4-0} + \frac{8.0-0}{1.4-0} + \frac{9.4-0}{1.4-0} + \frac{12.0-0}{1.4-0} + \frac{13.4-0}{1.4-0} + \frac{14.8-0}{1.4-0} + \frac{16-0-0}{1.4-0} + \frac{17.4-0}{1.4-0} + \frac{18.8-0}{1.4-0} + \frac{20.0-0}{1.4-0} + \frac{21.4-0}{1.4-0} + \frac{22.8-0}{1.4-0} + \frac{24.0-0}{1.4-0} + \frac{25.4-0}{1.4-0} + \frac{26.8-0}{1.4-0} + \frac{26.8-0}{1.4-0} + \frac{26.0-0}{1.4-0} + \frac{26.0-0}{1.4-0}$

| 1-4-                 | 0 1-4-0 | 1-4-0 1-4-0 1-4-0 1-         | 4-0 1-4-0 1 | +-0 1-+-0 | 1-4-0 1-4-0 | 5 1-4-0 1-4-0 | 1-4-0 | 1-4-0   | 1-4-0 1-               | +-0 1-+-0     | 1-+-0    | 1-4-0              | 1-4-0 1-7-0     |
|----------------------|---------|------------------------------|-------------|-----------|-------------|---------------|-------|---------|------------------------|---------------|----------|--------------------|-----------------|
| LOADING              | (psf)   | SPACING-                     | 2-0-0       | CSI.      |             | DEFL.         | in    | (loc)   | l/defl                 | L/d           |          | PLATES             | GRIP            |
| TCLL 4               | 40.0    | Plate Grip DOL               | 1.00        | TC        | 0.08        | Vert(LL)      | n/a   | -       | n/a                    | 999           |          | MT20               | 244/190         |
| TCDL                 | 10.0    | Lumber DOL                   | 1.00        | BC        | 0.01        | Vert(CT)      | n/a   | -       | n/a                    | 999           |          |                    |                 |
| BCLL                 | 0.0     | Rep Stress Incr              | YES         | WB        | 0.03        | Horz(CT)      | 0.00  | 26      | n/a                    | n/a           |          |                    |                 |
| BCDL                 | 5.0     | Code IRC2015/T               | PI2014      | Matri     | x-R         |               |       |         |                        |               |          | Weight: 127 lb     | FT = 20%F, 11%E |
| LUMBER-              |         | ·                            |             |           |             | BRACING       | -     |         |                        |               |          |                    |                 |
| TOP CHOR<br>BOT CHOR |         | 9 No.1(flat)<br>9 No.1(flat) |             |           |             | TOP CHO       | RD    |         | iral wood<br>end verti | 0             | lirectly | applied or 6-0-0 o | oc purlins,     |
| WEBS<br>OTHERS       |         | 9 No.3(flat)<br>9 No.3(flat) |             |           |             | BOT CHO       | RD    | Rigid c | eiling dire            | ectly applied | or 10-   | -0-0 oc bracing.   |                 |

#### REACTIONS. All bearings 30-11-0.

(Ib) - Max Grav All reactions 250 lb or less at joint(s) 26, 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27

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

#### NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Plates checked for a plus or minus 1 degree rotation about its center.

3) Gable requires continuous bottom chord bearing.

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

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

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



818 Soundside Road Edenton, NC 27932

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| Job                                     | Truss   | Truss 1   | уре                               |                    | Qty         | Ply                        | Lot 52 Liberty                   | Meadows  |                | 150                    |                        |
|---|---|---|-----------------------------------|--------------------|-------------|----------------------------|----------------------------------|----------|----------------|------------------------|------------------------|
| J0223-0756                              | ET-2  | GABLE   |                                   |                    | 1           | 1                          |                                  |          |                | ISt                    | 693000                 |
| Comtech, Inc, Faye                      | etteville, NC - 28314,                          |   |                                   |                    |             | 8 430 s.J.                 | Job Reference                    |          | c Thu Feb 16 1 | 4:12:17 2023 Pa        | ne 1                   |
|   | 2001.1,   |   |                                   | ID:gZk             | lhXMJ21ywun |                            |                                  |          |                | NPEmQGdYOlzk           |                        |
| 0- <mark>1</mark> -8                    |   |   |                                   |                    |             |                            |                                  |          |                | 0-                     | ₩ <sup>1</sup> 8       |
|   |   |   |                                   |                    |             |                            |                                  |          |                | Scale                  | e = 1:31. <sup>-</sup> |
|   |   |   |                                   |                    |             |                            |                                  |          |                |                        |                        |
|   |   |   |                                   |                    | 3x6 FP=     |                            |                                  |          |                |                        |                        |
| 1 2                                     | 3 4   | 5   | 6 7                               | 8                  | 9 10        | 11                         | 12                               | 13       | 14             | 15 16                  | -                      |
|   | • • •   | <u> </u>  |                                   |                    |             |                            | •<br>•                           |          | <u>o</u>       |                        |                        |
|   | ****  | ******  |                                   | ********           |             |                            |                                  | ******** | *****          |                        |                        |
| 32 31<br>3x4 =                          | 30 29   | 28  | 27 26                             | 25 24<br>3x6 FP == | 23          | 22                         | 21                               | 20       | 19             | 18 17<br>3x4           |                        |
| 384 —                                   |   |   |                                   | 3X0 FF —           |             |                            |                                  |          |                | 384                    | _                      |
|   |   |   |                                   |                    |             |                            |                                  |          |                |                        |                        |
|   |   |   |                                   |                    |             |                            |                                  |          |                |                        |                        |
|   |   |   |                                   |                    |             |                            |                                  |          |                |                        |                        |
|   |   |   |                                   |                    |             |                            |                                  |          |                |                        |                        |
|   | -8-0   4-0-0  <br>-4-0   1-4-0                  | 5-4-0         6-8-           1-4-0         1-4- |                                   | 9-4-0<br>1-4-0     |             | 2-0-0<br>1-4-0             | 13-4-0 14-<br>1-4-0 1-4          |          |                | 18-9-0<br>1-5-0        | ł                      |
| LOADING (psf)<br>TCLL 40.0<br>TCDL 10.0 | <b>SPACING-</b><br>Plate Grip DOL<br>Lumber DOL | 2-0-0<br>1.00<br>1.00                           | <b>CSI.</b><br>TC 0.07<br>BC 0.01 | 1                  |             | in (loc)<br>n/a -<br>n/a - | l/defl L/d<br>n/a 999<br>n/a 999 |          | PLATES<br>MT20 | <b>GRIP</b><br>244/190 |                        |
| BCLL 0.0<br>BCDL 5.0                    | Rep Stress Incr<br>Code IRC2015/                | YES   | WB 0.03<br>Matrix-R               |                    |             | .00 17                     | n/a n/a                          |          | Weight: 78 lb  | FT = 20%F              | , 11%E                 |

#### LUMBER-

 TOP CHORD
 2x4 SP No.1(flat)

 BOT CHORD
 2x4 SP No.1(flat)

 WEBS
 2x4 SP No.3(flat)

 OTHERS
 2x4 SP No.3(flat)

BRACING-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 18-9-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 26, 24, 23, 22, 21, 20, 19, 18

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

#### NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Plates checked for a plus or minus 1 degree rotation about its center.

3) Gable requires continuous bottom chord bearing.

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

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

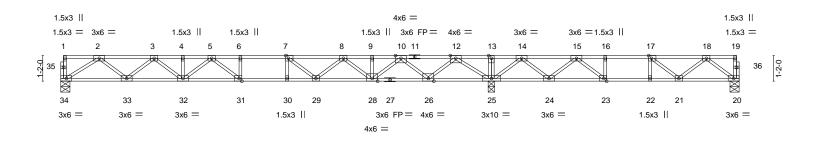
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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| Job                    | Truss             | Truss Type | Qty      | Ply        | Lot 52 Liberty Meadows                                   |                     |
|------------------------|-------------------|------------|----------|------------|--|---------------------|
|                        |                   |            |          |            |  | 56693001            |
| J0223-0756             | F1                | Floor      | 6        | 1          |  |                     |
|                        |                   |            |          |            | Job Reference (optional)                                 |                     |
| Comtech, Inc, Fayettev | ille, NC - 28314, |            | 8        | .430 s Jar | 6 2022 MiTek Industries, Inc. Thu Feb 16 14:12:19 2023 F | Page 1              |
|                        |                   | ID:gZkll   | nXMJ21yw | ungoZg0?   | AyzpENq-HX2Wf6FmgpM_SZNfbipmev3Lw0F3r9X3ua6fSdz          | zkXvQ               |
| 0-1-8                  |                   |            |          |            |  |                     |
| H <u>1-6-0</u> 1-3-0   | F                 | 2-0-0      | 1-6-     | 0          | <u> </u>   | 1-8<br>ale = 1:52.5 |
|                        | 1                 |            | 1        |            | Sci  | ale = 1:52.5        |
|                        |                   |            |          |            |  |                     |



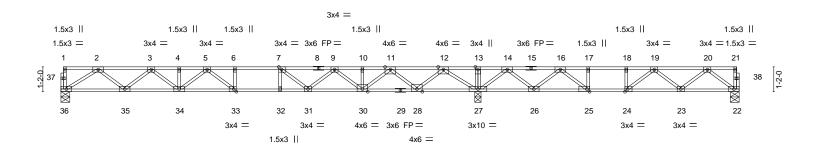
| <b></b>   | 19-  |   |   |                              |                         |                               |                          | 30-11-0                   |                        |
|---|--|---|---|------------------------------|-------------------------|-------------------------------|--------------------------|---------------------------|------------------------|
| Plate Offsets (X.   | 19-7<br>Y) [7:0-1-8,Edge], [17:0-1-8,Edge], [23:0-1  | •   |   |                              | 1                       |                               |                          | 11-3-8                    | '                      |
| LOADING (psf)<br>TCLL 40.0<br>TCDL 10.0<br>BCLL 0.0   | SPACING- 2-0-0<br>Plate Grip DOL 1.00<br>Lumber DOL 1.00<br>Rep Stress Incr YES  | CSI.<br>TC 0.78<br>BC 1.00<br>WB 0.68   | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in<br>-0.32<br>-0.44<br>0.06 | (loc)<br>31<br>31<br>25 | l/defl<br>>732<br>>537<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 IRC2015/TPI2014   | Matrix-S  |   | 0.00                         | 20                      |                               | n, a                     | Weight: 154 lb            | FT = 20%F, 11%E        |
| BOT CHORD 2   | 2x4 SP No.1(flat)<br>2x4 SP No.1(flat)<br>2x4 SP No.3(flat)  |   | BRACING-<br>TOP CHOF<br>BOT CHOF          | RD                           | except                  | end verti                     | cals.                    | rectly applied or 6-0-0 o | oc purlins,            |
|   | (size) 34=0-5-0, 25=0-3-8, 20=0-5-0<br>Max Uplift 20=-63(LC 3)<br>Max Grav 34=935(LC 3), 25=2103(LC 1), 20=  |   |   |                              |                         |                               |                          |                           |                        |
| TOP CHORD   | 2-3=-2121/0, 3-4=-3348/0, 4-5=-3348/0, 5-6=<br>8-9=-2255/0, 9-10=-2255/0, 10-12=-386/305,<br>14-15=-260/1584, 15-16=-1087/650, 16-17=-<br>33-34=0/1357, 32-33=0/2854, 31-32=0/3681   | 12-13=0/2885, 13-14=0/2<br>1087/650, 17-18=-877/26                                | 2884,<br>6                                | 46,                          |                         |                               |                          |                           |                        |
| WEBS  | 26-28=0/1436, 25-26=-1122/0, 24-25=-1948<br>21-22=-650/1087, 20-21=-65/612<br>2-34=-1609/0, 2-33=0/994, 3-33=-953/0, 3-32<br>12-25=-2097/0, 12-26=0/1435, 10-26=-1407/<br>7-29=-827/0, 14-25=-1324/0, 14-24=0/894, 1<br>18-20=-766/80, 18-21=-262/345, 17-21=-268  | 2=0/631, 5-32=-425/0, 5-3<br>0, 10-28=0/1089, 8-28=-9<br>5-24=-955/0, 15-23=0/960 | 31=-246/462,<br>914/0, 8-29=0/652,        |                              |                         |                               |                          |                           |                        |
| <ol> <li>All plates are</li> <li>Plates checked</li> <li>Provide mech</li> <li>Recommend 2<br/>Strongbacks t</li> </ol> | oor live loads have been considered for this de<br>3x4 MT20 unless otherwise indicated.<br>d for a plus or minus 1 degree rotation about i<br>anical connection (by others) of truss to bearin<br>2x6 strongbacks, on edge, spaced at 10-0-0 o<br>o be attached to walls at their outer ends or re<br>o not erect truss backwards. | s center.<br>g plate capable of withsta<br>c and fastened to each tr              |   |                              |                         | i.                            | C                        | OPTIES                    | AROUN                  |



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818 Soundside Road Edenton, NC 27932

| Job                       | Truss              | Truss Type | Qty      | Ply         | Lot 52 Liberty Meadows  |
|---------------------------|--------------------|------------|----------|-------------|---|
|                           |                    |            |          |             | 156693002   |
| J0223-0756                | F2                 | Floor      | 2        | 1           |   |
|                           |                    |            |          |             | Job Reference (optional)                                      |
| Comtech, Inc, Fayettev    | ville, NC - 28314, |            | 8        | 8.430 s Jar | 6 2022 MiTek Industries, Inc. Thu Feb 16 14:12:20 2023 Page 1 |
|                           |                    | ID:gZklł   | nXMJ21yw | ungoZg0?    | AyzpENq-ljcusSGOR6Ur4jys9QL?A6bW3QguacmC6EsC?3zkXvP           |
| 0-1-8                     |                    |            |          |             |   |
| <u>1-6-0</u> <u>1-3-0</u> | <u>н_</u> :        | 2-0-0      | 1-6-0    |             | 1-8-0 0-1-8<br>Scale = 1:54.2                                 |



| F  |  |  | 9-7-8  |   |                              | 31-11-0<br>12-3-8       |                               |                          |  |   |  |  |
|--|--|--|--|---|------------------------------|-------------------------|-------------------------------|--------------------------|--|---|--|--|
| Plate Offse  | ets (X,Y)  | [7:0-1-8,Edge], [24:0-1-8,Edge], [25   | 9-7-8<br>:0-1-8,Edge], [33:0-1-8,Edge]   | ]   |                              |                         |                               |                          | 12-3-8   |   |  |  |
| LOADING<br>TCLL<br>TCDL<br>BCLL<br>BCDL  | i (psf)<br>40.0<br>10.0<br>0.0<br>5.0                                      | SPACING- 2-0-0<br>Plate Grip DOL 1.00<br>Lumber DOL 1.00<br>Rep Stress Incr YES<br>Code IRC2015/TPI2014  | CSI.<br>TC 0.82<br>BC 0.64<br>WB 0.68<br>Matrix-S                                  | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in<br>-0.29<br>-0.39<br>0.05 | (loc)<br>33<br>33<br>27 | l/defl<br>>809<br>>594<br>n/a | L/d<br>480<br>360<br>n/a | PLATES<br>MT20<br>Weight: 159 lb                               | <b>GRIP</b><br>244/190<br>FT = 20%F, 11%E |  |  |
| LUMBER-<br>TOP CHO<br>BOT CHO<br>WEBS  | RD 2x4 SI<br>RD 2x4 SI<br>22-29:   | P No.1(flat)<br>P 2400F 2.0E(flat) *Except*<br>: 2x4 SP No.1(flat)<br>P No.3(flat)   |  | BRACING-<br>TOP CHOR<br>BOT CHOR          |                              | except                  | end vert                      | icals.                   | rectly applied or 6-0-0 or 6-0-0 or 6-0-0 or 6-0-0 oc bracing. | oc purlins,                               |  |  |
|  | Max U<br>Max 0<br>(Ib) - Max   | ze) 36=0-5-0, 27=0-3-8, 22=0-5-0<br>Jplift 22=-32(LC 3)<br>Grav 36=933(LC 3), 27=2147(LC 1),<br>. Comp./Max. Ten All forces 250 (I   | b) or less except when shown   |   |                              |                         |                               |                          |  |   |  |  |
| TOP CHO  | 9-10<br>14-1<br>19-2   | 2117/0, 3-4=-3338/0, 4-5=-3338/0,<br>)=-2232/0, 10-11=-2232/0, 11-12=-36<br>6=-323/1612, 16-17=-1317/711, 17-<br>20=-1039/150  | 0/357, 12-13=0/2874, 13-14=<br>18=-1317/711, 18-19=-1317/7                         | =0/2873,<br>711,                          |                              |                         |                               |                          |  |   |  |  |
| ВОТ СНО  | 28-3   | 36=0/1355, 34-35=0/2848, 33-34=0/3<br>30=-46/1412, 27-28=-1111/0, 26-27=<br>24=-329/1335, 22-23=-60/682  |  | ,   | 26,                          |                         |                               |                          |  |   |  |  |
| WEBS   | 2-36<br>12-2<br>7-31   | 22=-852/70, 2-35=0/992, 3-35=-952/0,<br>27=-2096/0, 12-28=0/1435, 11-28=-1<br>=-847/0, 14-27=-1392/0, 14-26=0/95<br>22=-852/77, 20-23=-117/465, 19-23=   | 406/0, 11-30=0/1086, 9-30=-9<br>5, 16-26=-1009/0, 16-25=0/1                        | 916/0, 9-31=0/648,                        | ,                            |                         |                               |                          |  |   |  |  |
| <ol> <li>All plate</li> <li>Plates of</li> <li>Provide</li> <li>Recommission</li> <li>Strongb</li> </ol> | es are 3x6 M<br>checked for<br>e mechanica<br>mend 2x6 st<br>packs to be a | ve loads have been considered for th<br>IT20 unless otherwise indicated.<br>a plus or minus 1 degree rotation ab<br>I connection (by others) of truss to be<br>trongbacks, on edge, spaced at 10-0<br>attached to walls at their outer ends<br>eroot true beginverde | out its center.<br>earing plate capable of withsta<br>0 oc and fastened to each tr | russ with 3-10d (0.1                      |                              |                         | 5.                            | Z                        | ORTH C.  | ARO                                       |  |  |

6) CAUTION, Do not erect truss backwards.



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818 Soundside Road Edenton, NC 27932

| Job                        | Truss   | Truss Type  |                           | Qty        | Ply                | Lot 52 Liberty Meade                      | ows                               |  |
|----------------------------|---|---|---------------------------|------------|--------------------|---|-----------------------------------|--|
| J0223-0756                 | F3  | Floor   |                           | 1          | 1                  |   |                                   | 156693003  |
| Comtech, Inc,              | Fayetteville, NC - 28314,   |   |                           | s          | 8 430 s. la        | Job Reference (optio                      | nal)<br>tries, Inc. Thu Feb 16 14 | 1.12.24 2023 Page 1  |
| oomeen, me,                | 1 dyelleville, 140 - 20014,                                       |   | ID:gZklh)                 |            |                    |   | HZKGdOFPxLymDx1yL                 |  |
| 0-1-8                      |   |   |                           |            |                    |   |                                   |  |
| <mark> 1-3-0</mark>        | ┥ ┣━  | 2-5-4   | 0-8-2                     |            |                    | 1-8-1                                     | 0                                 | 0-9-0-1-8<br>Scale = 1:56  |
| 1.5x3                      |   | 3x6 =   |                           |            |                    |   |                                   | 4x4 ==   |
| 1.5x3 =                    | 1.5x3   |   | P = 4x6 =                 |            |                    | 3x6 FP= 1.5x3                             | 1.5x3                             | 1.5x3 =  |
|                            | 2 3 4 5   | 6 7 8 9   | 10 11 12 13               | 3 14       | 15                 | 16 17 18                                  | 19 20                             | 21 22 23   |
|                            |   |   |                           |            |                    |   |                                   |  |
| $\bowtie$                  |   |   |                           | Nor<br>X   | 0                  | - Jøl                                     | - 181<br>- 181                    |  |
| 42                         | 41 40 39  |   | 35 34 33 32               |            | 30                 | 29 28                                     | 27 26                             | 25 24  |
| 3x6 =                      | 3x6 =1.5x3 ↓  |   | 3x10 = 1.5x<br>x6 = 1.5x3 | 3    3x6 = | <br>3x6 FP=        | =   |                                   | 1.5x3   <br>4x6 =  |
|                            |   |   |                           |            |                    |   |                                   |  |
|                            |   |   |                           |            |                    |   |                                   |  |
|                            |   |   |                           |            |                    |   |                                   |  |
|                            |   |   |                           |            |                    |   |                                   |  |
|                            |   |   |                           |            |                    |   |                                   | 32-11-8  |
|                            |   | 5-11-4<br>5-11-4  | 19-7-6<br>3-8-2           |            |                    | <u>31-10</u><br>12-2-                     |                                   | <u>31-11-8</u><br>0-1-8  |
| Plate Offsets (X           | (Y) [5:0-1-8 Edge] [12:0-1-                                       | 3,Edge], [13:0-1-8,Edge], [23:0                             | 0-1-8 Edge] [27:0-1-8 Edg | e] [28·0-  | 1-8 Edae           | <i>j</i> ]                                |                                   | 1-0-0  |
|                            |   |   |                           |            |                    |   |                                   | 0.010  |
| LOADING (psf)<br>TCLL 40.0 |   | 2-0-0 <b>CSI.</b><br>1.00 TC                                | 0.76 DEFL.<br>Vert(LL)    |            | n (loc)<br>) 39-40 | l/defl L/d<br>>959 480                    | PLATES<br>MT20                    | <b>GRIP</b><br>244/190   |
| TCDL 10.0                  |   |   | 0.98 Vert(CT              |            | 39-40              | >710 360                                  |                                   |  |
| BCLL 0.0<br>BCDL 5.0       |   |   | 0.52 Horz(C1<br>S         | ) 0.03     | 3 34               | n/a n/a                                   | Weight: 170 lb                    | FT = 20%F, 11%E  |
| LUMBER-                    |   |   | BRACIN                    | G.         |                    |   |                                   |  |
| TOP CHORD                  | 2x4 SP No.1(flat)   |   | TOP CH                    |            |                    | 0   | rectly applied or 6-0-0           | oc purlins,  |
|                            | 2x4 SP No.1(flat)<br>2x4 SP No.3(flat)                            |   | BOT CH                    | OPD        |                    | end verticals.<br>eiling directly applied | or 6-0-0 oc bracing               |  |
| WEBS                       | 2X4 SF 110.3(IIdt)  |   | BOTON                     | UKD        | rigiu c            | ening unectly applied                     | or 0-0-0 oc bracing.              |  |
| REACTIONS.                 | All bearings 0-5-0 except (jt=<br>Max Grav All reactions 250 II   | ength) 34=0-3-8, 31=0-3-12, 2                               |                           | 31-0/3     | (( C 4)            |   |                                   |  |
| (10)                       | 25=1997(LC 5)   |   | 100(200); 04=1410(200);   | , 01=040   | (LO +),            |   |                                   |  |
| FORCES (Ib)                | - Max. Comp./Max. Ten All fo                                      | arces 250 (lb) or less except w                             | vhen shown                |            |                    |   |                                   |  |
| TOP CHORD                  | 2-3=-1536/0, 3-4=-2425/0, 4-                                      | 5=-2425/0, 5-6=-2486/0, 6-7=-                               | -1852/0, 7-8=-1852/0,     |            |                    |   |                                   |  |
|                            |   | 11-12=0/1664, 12-13=0/1370<br>/355, 18-19=-927/355, 19-20=  |                           |            |                    |   |                                   |  |
|                            | 21-22=0/1111, 22-23=0/1110  |   | 921/333, 20-21222/030     | ,          |                    |   |                                   |  |
| BOT CHORD                  |   | 39-40=0/2486, 38-39=0/2486,<br>, 32-33=-1370/0, 31-32=-1370 |                           | 322,       |                    |   |                                   |  |
|                            |   | /927, 26-27=-497/687, 25-26=                                | , , ,                     |            |                    |   |                                   |  |
| WEBS                       |   | 41=-731/0, 3-40=0/418, 5-40=<br>8-37=0/690, 6-37=-930/0, 13 |                           |            |                    |   |                                   |  |
|                            |   | 4/0, 15-29=0/626, 17-29=-596                                |                           |            |                    |   |                                   |  |
|                            | 21-25=-1023/0, 21-26=0/640  | 20-26=-615/0, 20-27=0/435,                                  | 23-25=-1647/0             |            |                    |   |                                   |  |
| NOTES-                     |   |   |                           |            |                    |   |                                   |  |
|                            | floor live loads have been consi                                  |   |                           |            |                    |   | mm                                | in the second se |
|                            | e 3x4 MT20 unless otherwise in<br>ed for a plus or minus 1 degree |   |                           |            |                    |   | TH C                              | ARO  |
| 4) Recommend               | l 2x6 strongbacks, on edge, spa                                   | ced at 10-0-0 oc and fastened                               |                           | (0.131" X  | (3") nails         | S.  | NON EES                           | Sign N'  |
|                            | to be attached to walls at their on on ot erect truss backwards.  | buter ends or restrained by oth                             | ner means.                |            |                    | 2   | they ,                            | day 1  |
| ,                          |   |   |                           |            |                    |   | E 18 -                            |  |
| LOAD CASE(S                | ) Standard  |   | _                         |            |                    |   | = : SE                            | AL : :   |

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 24-42=-10, 1-23=-100

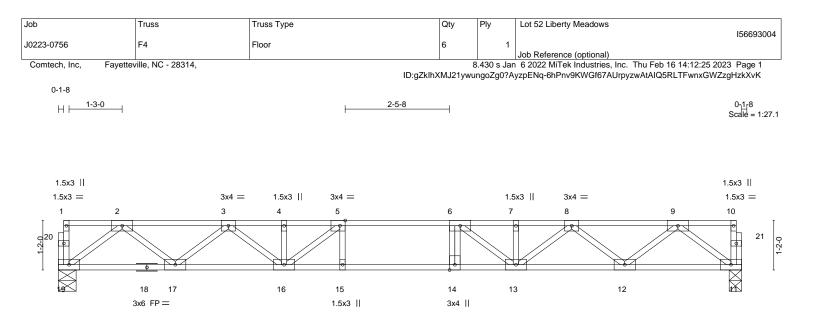
Concentrated Loads (lb) Vert: 23=-1200



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|   | CING- 2-0-0<br>Grip DOL 1.00       | CSI.     | DEFL. in               | (1) 1/-1-4        |  |              |                 |
|---|------------------------------------|----------|------------------------|-------------------|--|--------------|-----------------|
|   | Grin DOI 1.00                      |          |                        | ı (loc) l/defl    | L/d PL   | ATES         | GRIP            |
| ILUMB   | 0110 000 1100                      | TC 0.61  | Vert(LL) -0.20         | 13-14 >945        | 480 M  | T20          | 244/190         |
|   | er DOL 1.00                        | BC 0.81  | Vert(CT) -0.27         | 13-14 >707        | 360  |              |                 |
| BCLL 0.0 Rep S  | Stress Incr YES                    | WB 0.44  | Horz(CT) 0.05          | 11 n/a            | n/a  |              |                 |
| BCDL 5.0 Code   | IRC2015/TPI2014                    | Matrix-S |                        |                   | We   | eight: 82 lb | FT = 20%F, 11%E |
| TOP CHORD2x4 SP No.1(flat)3OT CHORD2x4 SP No.1(flat)WEBS2x4 SP No.3(flat) |                                    |          | TOP CHORD<br>BOT CHORD | except end vertic | sheathing directly app<br>als.<br>ctly applied or 10-0-0 |              | oc purlins,     |
| ()  | ), 11=0-3-8<br>LC 1), 11=865(LC 1) |          |                        |                   |  |              |                 |

| BOT CHORD | 17-19=0/1081, 16-17=0/2473, 15-16=0/3251, 14-15=0/3251, 13-14=0/3251, 12-13=0/2473, |
|-----------|---|
|           | 11-12=0/1081  |
|           |   |

WEBS 2-19=-1353/0, 2-17=0/930, 3-17=-883/0, 3-16=0/547, 5-16=-744/0, 9-11=-1353/0, 9-12=0/929, 8-12=-884/0, 8-13=0/551, 6-13=-736/0

### NOTES-

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

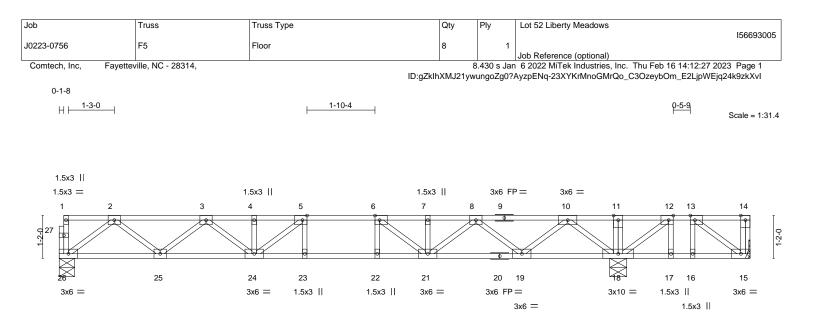
2) All plates are 3x6 MT20 unless otherwise indicated.

3) Plates checked for a plus or minus 1 degree rotation about its center.

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



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| Plate Offsets (X,Y)   | [5:0-1-8,Edge], [6:0-1-8,Edge], [12:0-1-8   | 15-2-12<br>15-2-12<br>5,Edge], [13:0-1-8,Edge]           |                                    |  | <u>18-9</u><br>  <u>3-7</u>      |   |
|---|---|--|------------------------------------|--|----------------------------------|---|
| 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 IRC2015/TPI2014 | <b>CSI.</b><br>TC 0.58<br>BC 0.72<br>WB 0.49<br>Matrix-S | Vert(LL) -0.1                      | in (loc) l/defl L/d<br>4 23-24 >999 480<br>9 23-24 >931 360<br>3 18 n/a n/a          | PLATES<br>MT20<br>Weight: 100 lb | <b>GRIP</b><br>244/190<br>FT = 20%F, 11%E |
| BOT CHORD 2x4 SF  | <ul> <li>P No.1(flat)</li> <li>P No.1(flat)</li> <li>P No.3(flat)</li> </ul>                            |  | BRACING-<br>TOP CHORD<br>BOT CHORD | Structural wood sheathing of except end verticals.<br>Rigid ceiling directly applied |                                  | oc purlins,                               |

#### REACTIONS. (size) 26=0-5-0, 18=0-5-8, 15=Mechanical Max Uplift 15=-386(LC 3) Max Grav 26=726(LC 10), 18=1563(LC 1), 15=68(LC 4)

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

2-3=-1443/0, 3-4=-2239/0, 4-5=-2239/0, 5-6=-2260/0, 6-7=-1753/0, 7-8=-1753/0, TOP CHORD

8-10=-519/0, 10-11=0/1479, 11-12=0/1479, 12-13=0/677

- BOT CHORD 25-26=0/898, 24-25=0/1959, 23-24=0/2260, 22-23=0/2260, 21-22=0/2260, 19-21=0/1263, 18-19=-324/0, 17-18=-677/0, 16-17=-677/0, 15-16=-677/0 WEBS 2-26=-1124/0, 2-25=0/709, 3-25=-671/0, 3-24=0/358, 10-18=-1464/0, 10-19=0/1030,
  - 8-19=-976/0, 8-21=0/631, 6-21=-760/0, 5-24=-317/183, 12-18=-1106/0, 12-17=0/295, 13-15=0/836, 13-16=-271/0

#### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 386 lb uplift at joint 15. 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

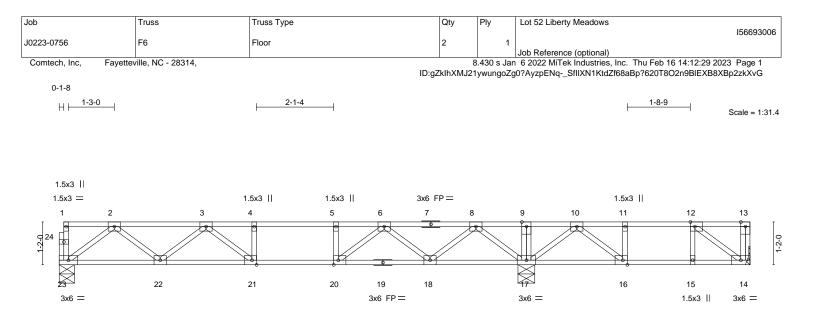
Strongbacks to be attached to walls at their outer ends or restrained by other means.

7) CAUTION, Do not erect truss backwards.



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|   |  | <u>12-8-12</u><br>12-8-12                         |                                    |   |                               |                          | <u>18-9-13</u><br>6-1-1                         |   |
|---|--|---|------------------------------------|---|-------------------------------|--------------------------|---|---|
| Plate Offsets (X,Y)   | [12:0-1-8,Edge], [16:0-1-8,Edge], [20:0-   |   |                                    |   |                               |                          | 0-1-1   |   |
| 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 IRC2015/TPI2014  | CSI.<br>TC 0.46<br>BC 0.50<br>WB 0.35<br>Matrix-S | · · /                              | in (loc)<br>10 21-22<br>14 21-22<br>02 17 | l/defl<br>>999<br>>999<br>n/a | L/d<br>480<br>360<br>n/a | PLATES<br>MT20<br>Weight: 95 lb                 | <b>GRIP</b><br>244/190<br>FT = 20%F, 11%E |
| LUMBER-<br>TOP CHORD 2x4 SF<br>BOT CHORD 2x4 SF   | P No.1(flat)<br>P No.1(flat)<br>P No.3(flat)   |   | BRACING-<br>TOP CHORD<br>BOT CHORD | except e                                  | end vertion                   | als.                     | rectly applied or 6-0-0<br>or 6-0-0 oc bracing. |   |
| Max L<br>Max C  | te) 23=0-5-0, 14=Mechanical, 17=0-5-<br>Jplift 14=-6(LC 3)<br>Grav 23=642(LC 3), 14=266(LC 4), 17=1  | 204(LC 1)   |                                    |   |                               |                          |   |   |
| TOP CHORD 2-3=  | . Comp./Max. Ten All forces 250 (lb) o<br>-1240/0, 3-4=-1780/0, 4-5=-1780/0, 5-6=<br>)=0/748. 10-11=-287/100. 11-12=-287/10  | -1780/0, 6-8=-908/0, 8-9=                         |                                    |   |                               |                          |   |   |
| 16-1  | 3=0/790, 21-22=0/1641, 20-21=0/1780,<br>7=-329/68, 15-16=-100/287, 14-15=-100  | /287  | ,                                  |   |                               |                          |   |   |
|   | s=-989/0, 2-22=0/586, 3-22=-522/0, 3-21<br>=-720/0, 6-20=0/609, 5-20=-281/0, 12-1  | , , ,   | ,                                  |   |                               |                          |   |   |
| <ul> <li>2) All plates are 3x4 M</li> <li>3) Plates checked for a</li> <li>4) Refer to girder(s) fo</li> <li>5) Provide mechanical</li> </ul> | ve loads have been considered for this d<br>IT20 unless otherwise indicated.<br>a plus or minus 1 degree rotation about i<br>or truss to truss connections.<br>I connection (by others) of truss to bearing<br>roundback on edge spaced at 10.000 of | ts center.<br>ng plate capable of withstar        |                                    |   |                               |                          |   |   |

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

7) CAUTION, Do not erect truss backwards.



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| 0-1-8<br>H $1-3-0$<br>1.5x3   <br>1.5x3 = 4x6 =<br>1 2<br>1 2<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>2  | NC - 28314,<br>3x6 = 1.5x<br>3 4     | Floor<br>3    3x4 =<br>5 | 1-5-8<br>→ 1-5-8   | $5$ D:gZklhXMJ2 $\exists x4 = 7$ |                                       | AyzpENq-SeDgy   | Industries, Inc.                            | Thu Feb 16 14:12:<br>/WLaD0F9S9Iw8b<br>4x6 =<br>12 |   |
|---|--------------------------------------|--------------------------|--------------------|----------------------------------|---------------------------------------|---|---|--|---|
| 0-1-8<br>H   1-3-0<br>1.5x3   <br>1.5x3 = 4x6 =<br>1 2<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7  | 3x6 = 1.5x                           |                          | 1-5-8<br>3x4 =     |                                  | 21ywungoZg0?<br>3x4                   | 6 2022 MiTek<br>AyzpENq-SeDgy<br>= 1.5x3   <br>3x6 FP = | Industries, Inc.<br>rtOf5BIQHFjnkW<br>3x6 = | 4x6 =  | gPoHkLUzkXvF<br>0-118<br>Scale = 1:34.<br>1.5x3   <br>1.5x3 = |
| 0-1-8<br>H 1-3-0<br>1.5x3   <br>1.5x3 = 4x6 =<br>1 2<br>27<br>26<br>26  | 3x6 = 1.5x                           |                          | 1-5-8<br>3x4 =     |                                  | 21ywungoZg0?<br>3x4                   | AyzpENq-SeDgy<br>= 1.5x3   <br>3x6 FP=                  | rtOf5BIQHFjnk₩<br>3x6 =                     | 4x6 =  | gPoHkLUzkXvF<br>0-118<br>Scale = 1:34.<br>1.5x3   <br>1.5x3 = |
| H   $1-3-0$<br>1.5x3   <br>1.5x3 = 4x6 =<br>1 2<br>1 2<br>2 2<br>2 6  |                                      |                          | 1-5-8<br>3x4 =     |                                  | 3x4                                   | = 1.5x3   <br>3x6 FP=                                   | 3x6 =                                       | 4x6 =  | 0- <u>1</u> г8<br>Scale = 1:34.<br>1.5x3   <br>1.5x3 =        |
| $H = \frac{1 \cdot 3 \cdot 0}{1 \cdot 5 \times 3} = \frac{1 \cdot 5 \times 3}{1 \cdot 5 \times 3} = \frac{4 \times 6}{4 \times 6} = \frac{1}{2} = \frac{2}{2} = \frac{1}{2} = \frac{2}{2} = \frac{1}{2} = \frac{2}{2} = \frac{1}{2} = $ |                                      |                          | 3x4 =              |                                  |                                       | 3x6 FP=   |   |  | Scale = 1:34.<br>1.5x3   <br>1.5x3 =                          |
| 1.5x3     1.5x3 = 4x6 =  1 2  1 2  27  26 27 27 2 26 2 2  |                                      |                          | 3x4 =              |                                  |                                       | 3x6 FP=   |   |  | Scale = 1:34.<br>1.5x3   <br>1.5x3 =                          |
| 1.5x3 = 4x6 =<br>1 2<br>0<br>1<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>1<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2   |                                      |                          |                    |                                  |                                       | 3x6 FP=   |   |  | 1.5x3 =   |
| 1.5x3 = 4x6 =<br>1 2<br>27<br>27<br>26<br>26<br>27<br>26<br>27<br>26<br>27<br>26<br>27<br>26<br>27<br>26<br>27<br>26<br>27<br>26<br>27<br>26<br>27<br>26<br>27<br>26<br>26<br>27<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26  |                                      |                          |                    |                                  |                                       | 3x6 FP=   |   |  | 1.5x3 =   |
| 1.5x3 = 4x6 =<br>1 2<br>0 27<br>27<br>26<br>27<br>26<br>27<br>26<br>27<br>27<br>26<br>27<br>27<br>27<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  |                                      |                          |                    |                                  |                                       | 3x6 FP=   |   |  | 1.5x3 =   |
| 1.5x3 = 4x6 =<br>1 2<br>27<br>27<br>26<br>26<br>27<br>26<br>27<br>26<br>27<br>26<br>27<br>26<br>27<br>26<br>27<br>26<br>27<br>26<br>27<br>26<br>27<br>26<br>27<br>26<br>26<br>27<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26  |                                      |                          |                    |                                  |                                       | 3x6 FP=   |   |  | 1.5x3 =   |
|   |                                      |                          |                    |                                  | 8                                     |   |   |  |   |
|   | 3 4                                  | 5                        | 6                  | 7                                | 8                                     | 9 10  | 11  | 12   | 13  |
|   |                                      |                          | La <sup>®</sup>    | @                                |                                       |   |   | 12   |   |
|   |                                      |                          | 74                 |                                  |                                       |   |   |  |   |
|   |                                      | $\sim$                   | _/                 |                                  | _//                                   |   |   |  | 28  |
|   | A of the                             |                          |                    |                                  |                                       |   |   | ¥  | , <u></u>   |
|   | 0                                    |                          | Ŭ                  | Ŭ                                |                                       |   |   | 0  |   |
| 3x6 = 4   | 25 24 23                             | 2                        | 21 20<br>x6    2x6 |                                  | 18<br>3x6                             | 17<br>6x6 =   | 3×4 -                                       | 15   |   |
|   |                                      | MIBAHS FP -              | X0    2X0          | 2.00 11 0                        | 570 11                                | 0.00 —  | 3,4 — 4                                     | x6 =   | 3x6 =   |
|   | 6x6                                  | 5 =                      |                    |                                  |                                       |   |   |  |   |
|   |                                      |                          |                    |                                  |                                       |   |   |  |   |
|   |                                      |                          |                    |                                  |                                       |   |   |  |   |
|   |                                      |                          |                    |                                  |                                       |   |   |  |   |
|   |                                      |                          |                    |                                  |                                       |   |   |  |   |
|   |                                      |                          |                    |                                  |                                       |   |   |  |   |
| <u>2-9-0</u><br>2-9-0   | 7-10-<br>5-1-                        | -8                       | 12-1-0<br>4-2-8    |                                  | -                                     | 17-2-8  |   | 19-11-8  |   |
|   | 5-1-<br>3,Edge], [7:0-1-8,Edge],     |                          |                    |                                  | · · · · · · · · · · · · · · · · · · · | 5-1-8   |   | 2-9-0  | `   |
|   |                                      |                          |                    |                                  |                                       |   |   |  |   |
|   | SPACING- 2-0-                        |                          |                    | EFL.                             | in (loc)                              | I/defI L/d  |   |  | RIP   |
|   | Plate Grip DOL 1.0<br>Lumber DOL 1.0 |                          |                    |                                  | 0.35 19-20<br>0.48 19-20              | >673 480<br>>489 360                                    |   |  | 44/190<br>36/179  |

| BCLL 1                                    | 0.0    | Lumber DOL 1.00<br>Rep Stress Incr YES             | BC 0.38<br>WB 0.60 | Vert(CT) -0.4<br>Horz(CT) 0.0      | 8 19-20 >489<br>6 14 n/a | 360<br>n/a | M18AHS   | 186/179         |
|---|--------|--|--------------------|------------------------------------|--------------------------|------------|--|-----------------|
| BCDL                                      | 5.0    | Code IRC2015/TPI2014                               | Matrix-S           |                                    |                          |            | Weight: 118 lb                                     | FT = 20%F, 11%E |
| LUMBER-<br>TOP CHORI<br>BOT CHORI<br>WEBS | 2x4 SP | 2 No.1(flat)<br>2 2400F 2.0E(flat)<br>2 No.3(flat) |                    | BRACING-<br>TOP CHORD<br>BOT CHORD | except end ver           | icals.     | rectly applied or 4-8-0 c<br>or 10-0-0 oc bracing. | oc purlins,     |

REACTIONS. (size) 26=0-5-0, 14=0-5-8 Max Grav 26=1078(LC 1), 14=1078(LC 1)

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

 TOP CHORD
 2-3=-2315/0, 3-4=-4109/0, 4-5=-4109/0, 5-6=-5105/0, 6-7=-5395/0, 7-8=-5105/0, 8-10=-4109/0, 10-11=-4109/0, 11-12=-2315/0

 BOT CHORD
 25-26=0/1352, 23-25=0/3311, 21-23=0/4778, 20-21=0/5395, 19-20=0/5395, 18-19=0/5395, 17-18=0/4778, 15-17=0/3311, 14-15=0/1352

 WEBS
 12-14=-1693/0, 2-26=-1693/0, 12-15=0/1254, 2-25=0/1254, 11-15=-1296/0, 10-1010

3-25=-1296/0, 11-17=0/997, 3-23=0/997, 8-17=-835/0, 5-23=-835/0, 8-18=0/506,

5-21=0/506, 7-18=-679/117, 6-21=-679/117, 6-20=-269/295, 7-19=-269/295

#### NOTES-

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

2) All plates are MT20 plates unless otherwise indicated.

3) Plates checked for a plus or minus 1 degree rotation about its center.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

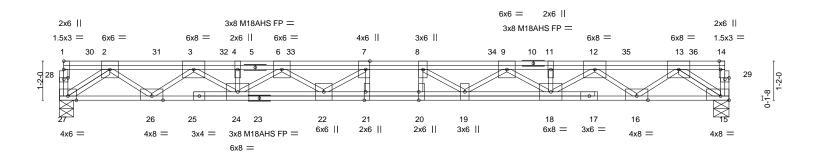
Strongbacks to be attached to walls at their outer ends or restrained by other means.



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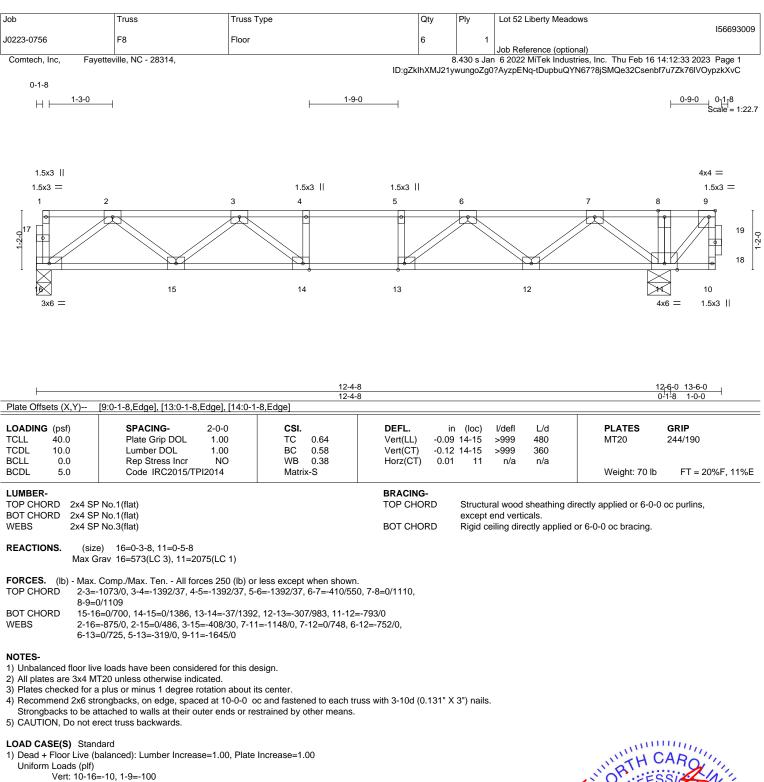
| Job   |  | Truss | Truss Type | Qty | Ply | Lot 52 Liberty Meadows   |  |
|---|--|-------|------------|-----|-----|--------------------------|--|
| J0223-0756  |  | F7G   | Floor      | 1   | 1   | 156693008                |  |
|   |  |       |            |     |     | Job Reference (optional) |  |
| Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Feb 16 14:12:32 2023 Page 1 |  |       |            |     |     |                          |  |
| ID:gZkIhXMJ21ywungoZg0?AyzpENq-P1KRNZQvdo?8WZt9sxYpfe5Z9FjqO_uzt5mrQNzkXvD  |  |       |            |     |     |                          |  |
|   |  |       |            |     |     |                          |  |



|  | 2-9-0         7-10-8         12-1-0         17-2-8           2-9-0         5-1-8         4-2-8         5-1-8  |   |  |  |   | 19-11-8                                    |                          |  |  |
|--|---|---|--|--|---|--|--------------------------|--|--|
| Plate Offsets (X,Y)  |   | ge,0-1-8], [20:0-3-0,0-0-0  |  | 28:0-1   | -8,0-0-8  | -  | -                        | 2-3-                                       |  |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0  | SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrNOCode IRC2015/TPI2014  | CSI.<br>TC 0.87<br>BC 0.89<br>WB 0.87<br>Matrix-S   | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>0.48<br>0.51<br>-0.09                    | (loc)<br>20<br>20<br>15                                   | l/defl<br>>494<br>>460<br>n/a              | L/d<br>480<br>360<br>n/a | PLATES<br>MT20<br>M18AHS<br>Weight: 149 lb | <b>GRIP</b><br>244/190<br>186/179<br>FT = 20%F, 11%E |
| BOT CHORD 2x4<br>WEBS 2x4<br>REACTIONS. (s<br>Max  | SP No.1(flat)<br>SP No.1(flat)<br>SP No.3(flat)<br>size) 27=0-5-0, 15=0-5-8<br>Uplift 27=-942(LC 10), 15=-1535(LC 9)<br>Grav 27=1287(LC 1), 15=962(LC 1)  |   | BRACING-<br>TOP CHORI<br>BOT CHORI   |  | except<br>Rigid c   | end verti<br>eiling dire                   | cals.                    | rectly applied or 6-0-0 c                  |  |
| TOP CHORD         2-3           BOT CHORD         26           20         15           WEBS         13           12         12   | x. Comp./Max. Ten All forces 250 (lb) o<br>3=-2619/2540, 3-4=-4286/5264, 4-6=-4286<br>2=-4961/7151, 9-11=-3939/5955, 11-12=-5<br>-27=-1263/1617, 24-26=-3882/3625, 22-2<br>-21=-7243/5273, 19-20=-7243/5273, 18-1<br>-16=-1295/1231<br>-16=-1205/1819, 3-26=-1278/1705, 12-18<br>24=-709/1258, 9-19=-553/530, 6-22=-848 | 5/5264, 6-7 <sup>-</sup> =-5130/6792, 7<br>939/5955, 12-13=-2187/3<br>4=-6296/4867, 21-22=-72<br>9=-6891/4590, 16-18=-47<br>=-1683/1194, 2-26=-1595<br>=-1453/980, 3-24=-1686/8   | 7-8=-5273/7243,<br>3343<br>43/5273,<br>75/3136,<br>/1252,<br>306, 9-18=-794/114  | 1,   |   |  |                          |  |  |
| <ol> <li>All plates are MTZ</li> <li>Plates checked fo</li> <li>Provide mechanic<br/>at joint 15.</li> <li>Recommend 2x6<br/>Strongbacks to be</li> <li>Hanger(s) or othe<br/>0-11-4, 246 lb dox<br/>and 486 lb up at<br/>14-11-4, and 48 ll<br/>such connection of</li> <li>In the LOAD CASE</li> <li>LOAD CASE(S) Stt<br/>1) Dead + Floor Live<br/>Uniform Loads (p)<br/>Vert: 15-7<br/>Concentrated Load</li> </ol> | : (balanced): Lumber Increase=1.00, Plate<br>f)<br>27=-10, 1-14=-100<br>ids (lb)  | its center.<br>Ing plate capable of withsta<br>acc and fastened to each tr<br>isstrained by other means.<br>ufficient to support concer<br>id 486 lb up at 4-11-4, 48<br>I-4, 48 lb down and 486 lt<br>b down and 480 lb up at<br>he truss are noted as from<br>Increase=1.00 | uss with 3-10d (0.1<br>Intrated load(s) 248<br>I b down and 486 ll<br>o up at 12-11-4, 48<br>18-11-4 on top cho<br>It (F) or back (B). | 31" X<br>Ib dow<br>b up at<br>Ib dov<br>rd. Th | 3") nails<br>vn and 9<br>t 6-11-4<br>vn and 4<br>ne desig | :.<br>6 lb up a<br>, 18 lb do<br>186 lb up | t<br>own 🖌               | SEA<br>0363                                |  |
|  | 32(B) 8=32(B) 7=32(B) 30=-178(B) 31=-1  |   |  |  |   |  |                          |  | ry 16,2023   |

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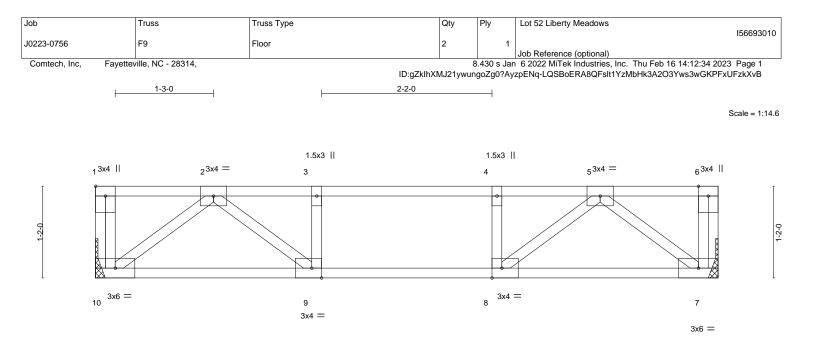


Concentrated Loads (lb) Vert: 9=-1200



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|  |   |                                       | <u>7-11-0</u><br>7-11-0                            |       |                            |  |                          |                |                        |
|--|---|---------------------------------------|--|-------|----------------------------|--|--------------------------|----------------|------------------------|
| Plate Offsets (X,Y)  | [1:Edge,0-1-8], [8:0-1-8,Edge], [9:0-1-8,   | Edge]                                 |  |       |                            |  |                          |                |                        |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.00<br>Lumber DOL 1.00<br>Rep Stress Incr YES   | CSI.<br>TC 0.25<br>BC 0.21<br>WB 0.19 | <b>DEFL.</b><br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | -0.03 | (loc)<br>9-10<br>9-10<br>7 | l/defl<br>>999<br>>999<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 IRC2015/TPI2014  | Matrix-S                              |  |       |                            |  |                          | Weight: 41 lb  | FT = 20%F, 11%E        |
| LUMBER-TOP CHORD2x4 SP No.1(flat)3OT CHORD2x4 SP No.1(flat)NEBS2x4 SP No.3(flat)                         |   |                                       | TOP CHORD Structural wood sl<br>except end vertica |       |                            | sheathing directly applied or 6-0-0 oc purlins,<br>cals.<br>ctly applied or 10-0-0 oc bracing. |                          |                |                        |
| REACTIONS. (size<br>Max G  | e) 10=Mechanical, 7=Mechanical<br>irav 10=422(LC 1), 7=422(LC 1)  |                                       |  |       |                            |  |                          |                |                        |
| TOP CHORD 2-3=-<br>BOT CHORD 9-10=   | Comp./Max. Ten All forces 250 (lb) or<br>742/0, 3-4=-742/0, 4-5=-742/0<br>=0/462, 8-9=0/742, 7-8=0/462<br>=-579/0, 2-9=0/403, 5-7=-579/0, 5-8=0/4 | ·                                     |  |       |                            |  |                          |                |                        |
| NOTES-   |   |                                       |  |       |                            |  |                          |                |                        |

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

2) Plates checked for a plus or minus 1 degree rotation about its center.

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

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.



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