# 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 #: 55564 JOB: 24-B592-F01 JOB NAME: LOT 0.0017 CAMPBELL RIDGE 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 2018 as well as IRC 2021. 24 Truss Design(s)

Trusses:

F101, F102, F103, F103A, F103B, F103C, F104, F105, F106, F107, F108, F109, F110, F111, F111A, F112, F114, F115, F115A, F115B, F115C, F115D, F116, F117



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

| Job   | Truss   | Truss Type   | Qty   | Ply                                 | LOT 0.0017 CAMPBE                           | LL RIDGE   231 ALDEN W                           | iay angi                      | ER, NC                               |
|---|---|--|---|-------------------------------------|---|--|-------------------------------|--------------------------------------|
| 24-B592-F01   | F101  | Floor Supported Gable                              | 1   | 1                                   | Job Reference (opt                          | tional)  | # .                           | 55564                                |
|   | L   |  | Run: 8.630 s<br>ID:UMCU2                                | lul 12 2024 Pr<br>6gUxCLqMI         | int: 8.630 s Jul 12 2024 Ko q9qxyaVB1-hxZ?  | MiTek Industries, Inc. Sat<br>2n2HHb3zSp194uW0el | Dec 21 20<br>THLz5rz          | :29:34 2024 Page 1<br>6uvZ1FCtAy6ek2 |
|   |   |  |   | 0 1                                 | ,   |  | -                             | <br>0-1-8                            |
|   |   |  |   |                                     |   |  |                               | Scale = 1:32.7                       |
|   |   |  |   |                                     |   |  |                               |                                      |
| 1 0   | 2 4 5   | 6 7 9  | 3x4 =   | 10                                  | 3x8 FP=                                     | 14 15  | 16                            | 3x4                                  |
|   | ST1 ST1 ST1   |  |   | BT1 \$                              |   | 14 T2<br>0 0<br>ST1 ST1<br>0 0                   | ST1                           |                                      |
| <u>XXXXXXXX</u><br>34 33<br>3x4                                 | 32 31 30<br>;;  | 29 28 27 26<br>28 FP= 3x4                          | 25<br>4 =   | 24                                  | XXXXXXXXXX<br>23 22                         | XXXXXXXXXX<br>21 20                              | 19                            | 18<br>3x4                            |
| L   |   |  | 20-0-6  |                                     |   |  |                               |                                      |
| Plate Offsets (X,Y) [9  | 9:0-1-8,Edge], [26:0-1-8,Edge   | ], [34:Edge,0-1-8]                                 | 20-0-6  |                                     |   |  |                               | Ι                                    |
| 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 | CSI.<br>TC 0.05<br>BC 0.01<br>WB 0.03<br>Matrix-SH | <b>DEFL.</b><br>Vert(LL) r<br>Vert(CT) r<br>Horz(CT) 0. | in (loc)<br>n/a -<br>n/a -<br>00 18 | l/defl L/d<br>n/a 999<br>n/a 999<br>n/a n/a | PLATES<br>MT20<br>Weight: 86 lb                  | <b>GRIP</b><br>244/19<br>FT : | 0<br>= 20%F, 11%E                    |
| LUMBER-<br>TOP CHORD 2x4 SP                                     | No.1(flat)  | · · ·  | BRACING-<br>TOP CHORD                                   | Structu                             | ral wood sheathing                          | directly applied or 6-                           | 0-0 oc p                      | urlins, except                       |

end verticals.

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

BOT CHORD

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

### **REACTIONS.** All bearings 20-0-6.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 34, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 31, 32, 33

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

NOTES- (7-8)

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

2) Gable requires continuous bottom chord bearing.

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

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

5) 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.

6) CAUTION, Do not erect truss backwards.

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

8) 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.

## LOAD CASE(S) Standard



| Job  | Truss  | Truss Type  | Qty P                                    | LOT 0.0017 CAMPBE  | LL RIDGE   231 ALDEN WAY ANGIER, NC  |
|--|--|---|--|--|--|
| 24-B592-F01  | F102   | Floor   | 7  | 1  | (ional) # 55564  |
|  | I  |   | Run: 8.630 s Jul 12 2<br>ID:UMCU2t6aUxCl | 2024 Print: 8.630 s Jul 12 2024  | MiTek Industries, Inc. Sat Dec 21 20:29:35 2024 Page<br>OlyMN5.JQBkHSDXtlhgK1U1UiOf3oh?mPdv6ek |
| 0-1-8  |  |   | 12.011002.090701                         |  |  |
| H <b>⊢</b> 1-4-9   | 1-4-9 2-0-0  | <u>1-3-0</u>  | 1-4-0 1-6-8                              | 1-5-4 2-0-0  | <u>1-2-8</u><br>Scale = 1:32   |
|  |  |   |  |  | - 1.02.4   |
|  |  |   |  |  |  |
|  |  |   |  |  |  |
| 1.5x3  |  |   |  |  |  |
| 1.5x3 =  | 1.5x3  | 1.5x3    3x8 FP   | = 5x10                                   | = 1.5x3  |  |
|  | 2 3<br>T1  |   |  | 10<br>T2   |  |
| ° 25 ₩2  | 102  |   | W4 W5 H                                  | XV6  |  |
|  | В  |   |  | B2   |  |
| 24   | 23   | 22 21   | 20 19 18                                 | 17   | 16 15 14   |
| 6x6  | 20   |   | 3x8 FP= 5x10 =                           |  | 1.5x3    3x6 =   |
|  |  |   |  |  |  |
|  |  |   |  |  |  |
|  |  |   |  |  |  |
|  |  |   |  |  |  |
| <u> </u>   | + <u>3-1-10</u> + <u>4-1-10</u> + <u>5-</u><br><u>1-6-1</u> + <u>1-0-0</u> + <u>1-</u> | <u>1-10</u> <u>10-5-10</u><br>-0-0 5-4-0                              | <u> </u>                                 | <u>13-11-6</u><br><u>1-8-4</u><br><u>1-0-0</u><br><u>1-0-0</u><br><u>1-0-0</u> | 11-6 20-0-6<br>D-0 4-1-0   |
| Plate Offsets (X,Y)  | [9:0-4-12,Edge], [11:0-1   | 1-8,Edge], [17:0-1-8,Edge], [19:0                                     | -2-4,Edge], [22:0-1-8,Edge], [23         | :0-1-8,Edge], [24:Edge,0   | -3-0]  |
| LOADING (psf)  | SPACING-   | 1-7-3 <b>CSI</b> .  | DEFL. in (                               | loc) I/defl L/d  | PLATES GRIP  |
| TCDL 10.0  | Lumber DOL   | 1.00 IC 0.80<br>1.00 BC 0.69  | Vert(LL) -0.05 21<br>Vert(CT) -0.17 17   | 7-18 >684 360  | MT20 244/190   |
| BCLL 0.0<br>BCDL 5.0   | Rep Stress Incr<br>Code IRC2021/T  | NO WB 0.76<br>PI2014 Matrix-SH  | Horz(CT) 0.01                            | 14 n/a n/a   | Weight: 102 lb FT = 20%F, 11%E   |
| LUMBER-  |  |   | BRACING-                                 |  |  |
| TOP CHORD 2x4 SF   | P No.1(flat)<br>D No.1(flat) *Except*  |   | TOP CHORD S                              | tructural wood sheathing   | directly applied or 6-0-0 oc purlins, except   |
| BOT CHORD 2x4 SF<br>B2: 2x   | 4 SP SS(flat)  |   | BOT CHORD R                              | igid ceiling directly applie   | ed or 6-0-0 oc bracing.  |
| WEBS 2x4 SF<br>W5: 22  | P No.3(flat) *Except*<br>x4 SP No.2(flat)  |   |  |  |  |
| REACTIONS. (Ib/siz   | e) 24=208/0-5-6 (min.  | . 0-1-8). 14=618/0-4-8 (min. 0-1-                                     | 8), 19=3388/0-4-8 (min, 0-1-11           | )  |  |
| Max L<br>Max C   | Jplift24=-80(LC 4)   | =660/I C 4) 19=3388/I C 1)  | -,,                                      | ,  |  |
|  | Slav 24-224(LC 10), 14-  | -000(LC 4), 19-3300(LC 1)   |  |  |  |
| FORCES. (Ib) - Max<br>TOP CHORD 2-3=   | . Comp./Max. Ten All<br>-183/488, 3-4=-183/488   | forces 250 (lb) or less except wh<br>, 4-5=-183/488, 5-6=0/1281, 6-7: | en shown.<br>=0/1281, 7-8=0/2451,        |  |  |
| 8-9=<br>BOT CHORD 22-2   | 0/2452, 9-10=-2078/0, 1 3=-488/183, 21-22=-942   | 0-11=-2078/0, 11-12=-1334/0<br>2/0, 20-21=-1582/0, 19-20=-1582        | /0. 18-19=0/2390.                        |  |  |
| 17-1   | 8=0/2391, 16-17=0/2078   | 8, 15-16=0/2078, 14-15=0/756  | /700 7 10- 1067/0                        |  |  |
| 11-1   | 5=-950/0, 12-15=0/753,   | 12-14=-959/0, 9-19=-5105/0, 9-  | 17=-540/0, 2-24=-284/182,                |  |  |
| 2-23   | =-416/0  |   |  |  |  |
| NOTES- (6-7)<br>1) Unbalanced floor li   | ive loads have been cor  | nsidered for this design.   |  |  |  |
| 2) All plates are 3x4 I  | MT20 unless otherwise i  | indicated.  | e of withstanding 80 lb unlift at i      | oint 21  |  |
| 4) Recommend 2x6 s   | strongbacks, on edge, s  | paced at 10-0-0 oc and fastened                                       | to each truss with 3-10d (0.13)          | I" X 3") nails. Strongbacl   | ks to  |
| 5) CAUTION, Do not   | erect truss backwards.   | restrained by other means.  |  |  |  |
| <ol> <li>Graphical web braches</li> <li>Graphical web brache</li></ol> | cing representation does   | s not depict the size, type or the                                    | orientation of the brace on the v        | veb. Symbol only indicate  | es that  |
| 7) Bearing symbols a   | are only graphical repres  | entations of a possible bearing o                                     | ondition. Bearing symbols are r          | not considered in the strue  | ctural   |
|  | to support the loads inc   | licated.  |  |  | ROFESGION  |
| 1) Dead + Floor Live   | idard<br>(balanced): Lumber Incr   | rease=1.00, Plate Increase=1.00                                       |  |  | SFAL   |
| Uniform Loads (plf   | ()<br>4=-8 1-13=-80  |   |  |  | 28147  |
| Concentrated Load  | ds (lb)  |   |  |  |  |
| ven: 9=-24   | +00  |   |  |  | A NOINEER S IN   |
|  |  |   |  |  | Manak K. MOHamm  |
|  |  |   |  |  | 12/21/2024   |
| Warning !—Verify de  | esign parameters and read  | I notes before use. This design is base                               | d only upon parameters shown, and        | is for an individual building c  | omponent to be installed and loaded  |



5) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

### LOAD CASE(S) Standard

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

Vert: 7-12=-8, 1-6=-80

Concentrated Loads (lb) Vert: 2=-2480





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

TOP CHORD 1-13=-397/0, 7-8=0/389, 1-2=-410/0, 2-3=-865/0, 3-4=-865/0, 4-5=-649/0, 5-6=-658/0

BOT CHORD 11-12=0/773, 10-11=0/865, 9-10=0/865, 8-9=0/398

WEBS 1-12=0/515, 2-12=-472/0, 2-11=0/291, 4-9=-312/0, 6-9=0/319, 6-8=-552/0

NOTES- (5-6)

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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

4) CAUTION, Do not erect truss backwards.

5) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard





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

TOP CHORD 1-12=-409/0, 1-2=-425/0, 2-3=-928/0, 3-4=-928/0, 4-5=-727/0

BOT CHORD 10-11=0/811, 9-10=0/928, 8-9=0/928, 7-8=0/492

WEBS 1-11=0/533, 2-11=-502/0, 2-10=0/327, 4-8=-288/0, 5-8=0/306, 5-7=-624/0

NOTES- (4-5)

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

2) All plates are 3x4 MT20 unless otherwise indicated.

3) 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.

4) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard





NOTES- (4-5)

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 web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

## LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 7-12=-8, 1-6=-80 Concentrated Loads (lb) Vert: 2=-3000





REACTIONS. (lb/size) 6=38/2-5-6 (min. 0-1-8), 4=31/2-5-6 (min. 0-1-8), 5=119/2-5-6 (min. 0-1-8)

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

NOTES- (6-7)

- 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 web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard



| Job  | Truss  | Truss Type   | Qty  | Ply LOT 0.   | 0017 CAMPBELL RIDGE   | 231 ALDEN WAY ANGIER, NC   |
|--|--|--|--|--|---|--|
| 24-B592-F01  | F105   | Floor  | 4  |  | eference (ontional)   | # 55564  |
|  | 1  | 1  | Run: 8.630 s Jul 1<br>ID:UMCU2t6al   | 2 2024 Print: 8.630<br>JxCLgMIKo a9a                   | s Jul 12 2024 MiTek Indu<br>vyaVB1-5WF7P4J9t 1  | stries, Inc. Sat Dec 21 20:29:37 2024 Page 1<br>1gVufZeaLN6vnNImiBNvMF_UsTVv6eiv     |
| 0-1-8  | <u>  1-0-2</u>   | 2-0-0  | <u>  1-4-0</u>   | <u> 0-1</u>  | 3-12 <u>- 2-0-0</u>   | 1-2-8<br>Scale = 1:36.1  |
| 1.5x3 =<br>1<br>27<br>1<br>27<br>26<br>25  | 2 3<br>w3<br>24 23<br>1.5x3  | 4     5       22     21     20       1.5x3        3x8  | 3x8 =<br>6<br>19 18<br>FP=   | 3x8 FP=<br>7 8<br>9 9<br>17                            | 1.5x3   <br>9 10<br>5<br>5<br>5<br>5<br>5<br>5<br>2<br>16 15<br>1.5xi   | $ \begin{array}{c} 11 & 12 \\ 14 & 13 \\ 3 \parallel & 3x6 = \end{array} $           |
| ⊢ 1-6-0<br>1-6-0<br>Plate Offsets (X,Y) [3   | 4-0-0 5-1-10 6-1-<br>2-6-0 1-1-10 1-0<br>:0-1-8,Edge], [4:0-1-8,Edge   | 10 + 7-1-10 + 8-6-2 + 11-0-2<br>0 + 1-0-0 + 1-4-8 - 2-6-0<br>], [10:0-1-8,Edge], [16:0-1-8,Edg   | 12-5-10 13-10<br>1-5-8 1-4-1<br>[e], [26:Edge,0-1-8]   | -2 15-9-14<br>8 1-11-12                                | 16-11-6<br>15-11-6<br>0-1-81-0-0<br>1-0-0   | <u>19-3-14</u> <u>21-9-6</u> <u>22-0-6</u><br><u>1-4-8</u> <u>2-5-8</u> <u>0-3-0</u> |
| LOADING (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0  | SPACING- 1-7<br>Plate Grip DOL 1.1<br>Lumber DOL 1.1<br>Rep Stress Incr YE<br>Code IRC2021/TPI20   | 3         CSI.           00         TC 0.36           00         BC 0.45           S         WB 0.39           4         Matrix-SH   | <b>DEFL.</b> in<br>Vert(LL) -0.07<br>Vert(CT) -0.09<br>Horz(CT) 0.02   | (loc) l/defl<br>23 >999<br>23 >999<br>13 n/a           | L/d <b>P</b><br>480 M<br>360<br>n/a W   | LATES GRIP<br>1T20 244/190<br>Veight: 110 lb FT = 20%F, 11%E                         |
| LUMBER-<br>TOP CHORD 2x4 SP N<br>BOT CHORD 2x4 SP N<br>WEBS 2x4 SP N   | lo.1(flat)<br>lo.1(flat)<br>lo.3(flat)   |  | BRACING-<br>TOP CHORD<br>BOT CHORD   | Structural woo<br>end verticals.<br>Rigid ceiling di   | d sheathing directly a  | applied or 6-0-0 oc purlins, except<br>0 oc bracing.                                 |
| REACTIONS. (lb/size)<br>Max Gra  | 26=488/0-5-6 (min. 0-1-8<br>v 26=501(LC 10), 18=1073   | e), 18=1073/0-4-8 (min. 0-1-8), 1<br>(LC 1), 13=388(LC 4)  | 3=349/0-4-8 (min. 0-1-   | 8)   |   |  |
| FORCES.         (lb)         - Max. C           TOP CHORD         26-27=           5-6=-25           BOT CHORD         24-25=           18-19=           WEBS         9-16=-2           5-21=0,           11-14=                                       | comp./Max. Ten All force:<br>-497/0, 1-27=-496/0, 1-2=-<br>53/25, 6-7=-220/324, 7-8=-<br>0/1028, 23-24=0/1369, 22-<br>-654/0, 17-18=-657/0, 16-1<br>272/0, 6-18=-1032/0, 1-25=<br>/416, 5-19=-726/0, 6-19=0/<br>-11/252, 11-13=-584/0              | 250 (lb) or less except when sh<br>551/0, 2-3=-1228/0, 3-4=-1369/0,<br>220/324, 8-9=-792/18, 9-10=-792<br>23=0/1369, 21-22=0/1369, 20-21<br>7=-162/625, 15-16=-18/792, 14-<br>0/665, 2-25=-621/0, 2-24=0/260,<br>817, 6-17=0/565, 8-17=-599/0, 8 | own.<br>, 4-5=-1080/0,<br>//18, 10-11=-653/0<br>=0/796, 19-20=0/796,<br>15=-18/792, 13-14=0/46<br>4-21=-440/0,<br>-16=0/487, | 0  |   |  |
| NOTES- (5-6)<br>1) Unbalanced floor live<br>2) All plates are 3x4 MT<br>3) Recommend 2x6 stro<br>be attached to walls a<br>4) CAUTION, Do not err<br>5) Graphical web bracin<br>the member must be<br>6) Bearing symbols are<br>design of the truss to | loads have been consider<br>20 unless otherwise indica<br>ongbacks, on edge, spaced<br>at their outer ends or restra<br>ect truss backwards.<br>Ig representation does not<br>braced.<br>only graphical representati<br>support the loads indicate | ed for this design.<br>ted.<br>at 10-0-0 oc and fastened to ea<br>ined by other means.<br>depict the size, type or the orient<br>ons of a possible bearing condition.  | nch truss with 3-10d (0.1<br>ation of the brace on the<br>on. Bearing symbols are  | 31" X 3") nails.<br>e web. Symbol o<br>e not considere | Strongbacks to<br>only indicates that<br>d in the structural  |  |
| LOAD CASE(S) Standa  | rd   |  |  |  | The second | SEAL<br>28147<br>12/21/2024  |

| Job                     | Truss              | Truss Type | Qty Ply  | LOT 0.0017 CAMPBELL RIDGE   231 ALDE  | N WAY ANGIER, NC   |
|-------------------------|--------------------|------------|--|---|--|
| 24-B592-F01             | F106               | FLOOR      | 3 1  | Job Reference (optional)  | # 55564  |
|                         |                    |            | Run: 8.630 s Jul 12 2024 Pri<br>ID:UMCU2t6gUxCLq | int: 8.630 s Jul 12 2024 MiTek Industries, Inc. 3<br>MIKo_q9qxyaVB1-ZipVdPKneITtleTr7M5 | Sat Dec 21 20:29:38 2024 Page 1<br>5awJSxyi5Swr9VUeDQ?xy6ejx |
| 0-1-8                   |                    |            |  |   |  |
| H <b>⊢</b> <u>1-3-0</u> | <u>  1-0-2</u>   ⊧ | 2-0-0      | <u>  1-0-0_</u> 0- <u>1</u> −0                   | 0-8-12 2-0-0  | 1-2-8<br>Scale = 1:36.1                                      |
|                         |                    |            |  |   |  |
|                         |                    |            |  |   |  |
|                         |                    |            |  |   |  |
|                         |                    |            | 3x6 =  |   |  |
|                         |                    |            |  |   |  |



|  | 5-1-10   | 6-1-10 7-1-10   | 12-1-10   | 12-5-1   | 10 15-1   | 1-6                                    | 16-11-6                                     | 7-11-6                                   | 22-0-6  |
|--|--|---|---|--|---|--|---|--|---|
| Plate Offsets (X,Y)  | [3:0-1-8,Edge], [4:0-1-8,  | ,Edge], [11:0-1-  | -8,Edge], [17:0-1-8,Edg   | ge], [19:0-1-8,Edge  | e], [27:Edge,                                   | 0-1-8]                                 | 1-0-0                                       | 1-0-0                                    | 4-1-0   |
| LOADING (psf)<br>TCLL 40.0<br>TCDL 10.0<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>NO<br>PI2014   | <b>CSI.</b><br>TC 0.43<br>BC 0.48<br>WB 0.33<br>Matrix-SH   | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)                      | in (loc)<br>-0.07 24-25<br>-0.09 24<br>0.02 14  | l/defl<br>>999<br>>999<br>n/a          | L/d<br>480<br>360<br>n/a                    | PLATES<br>MT20<br>Weight: 1              | <b>GRIP</b><br>244/190<br>13 lb FT = 20%F, 11%E |
| LUMBER-<br>TOP CHORD 2x4<br>BOT CHORD 2x4<br>WEBS 2x4  | SP No.1(flat)<br>SP No.1(flat)<br>SP No.3(flat)  |   |   | BRACING-<br>TOP CHOR<br>BOT CHOR                               | RD Struct<br>end ve<br>RD Rigid o               | ural wood<br>erticals.<br>ceiling dire | sheathing o                                 | directly applied o<br>d or 6-0-0 oc brad | r 6-0-0 oc purlins, except<br>cing.             |
| REACTIONS. (Ib/s<br>Max  | size) 27=492/0-5-6 (min.<br>Grav27=506(LC 10), 19=   | 0-1-8), 19=283<br>2835(LC 1), 14  | 35/0-4-8 (min. 0-1-8), 1<br>I=379(LC 4)   | 4=343/0-4-8 (min   | ı. 0-1-8)                                       |  |   |  |   |
| <b>FORCES.</b> (Ib) - Max. Comp./Max. Ten All forces 250 (Ib) or less except when shown.<br>TOP CHORD 27-28=-502/0, 1-28=-502/0, 1-2=-558/0, 2-3=-1249/0, 3-4=-1402/0, 4-5=-1123/0,<br>5-6=-319/0, 6-7=0/804, 7-8=-155/400, 8-9=-155/400, 9-10=-750/62, 10-11=-750/62,<br>11-12=-630/0 |  |   |   |  |   |  |   |  |   |
| BOT CHORD 25   | -26=0/1042, 24-25=0/1402   | 2, 23-24=0/1402   | 2, 22-23=0/1402, 21-22  | 2=0/843, 20-21=0/  | 843,  |  |   |  |   |
| 19<br>WEBS 6<br>3-2<br>7   | 19-20=-445/0, 18-19=-719/0, 17-18=-213/560, 16-17=-62/750, 15-16=-62/750, 14-15=0/450<br>WEBS 6-19=-2364/0, 10-17=-276/0, 7-19=-609/0, 1-26=0/674, 2-26=-629/0, 2-25=0/270,<br>3-25=-260/0, 12-14=-571/0, 4-22=-427/0, 5-22=0/408, 5-20=-717/0, 6-20=0/689,<br>7-18=0/580, 9-18=-611/0, 9-17=0/499 |   |   |  |   |  |   |  |   |
| NOTES- (5-6)<br>1) Unbalanced floo<br>2) All plates are 3x<br>3) Recommend 2xt<br>be attached to w<br>4) CAUTION, Do n<br>5) Graphical web b<br>the member mus<br>6) Bearing symbols<br>design of the tru  | r live loads have been con<br>4 MT20 unless otherwise in<br>5 strongbacks, on edge, sp<br>alls at their outer ends or r<br>ot erect truss backwards.<br>racing representation does<br>t be braced.<br>are only graphical represe<br>ss to support the loads ind                                    | sidered for this<br>ndicated.<br>baced at 10-0-0<br>restrained by ot<br>a not depict the<br>entations of a p<br>icated. | design.<br>oc and fastened to ea<br>her means.<br>size, type or the orient<br>ossible bearing conditi | ach truss with 3-10<br>ation of the brace<br>on. Bearing symbo | ld (0.131" X 3<br>on the web.<br>ols are not co | 3") nails.<br>Symbol ol<br>onsidered   | Strongback<br>nly indicates<br>in the struc | s to<br>s that<br>tural                  | Witten.   |
| LOAD CASE(S) St<br>1) Dead + Floor Liv<br>Uniform Loads (<br>Vert: 14-<br>Concentrated Lo<br>Vert: 6=-   | andard<br>e (balanced): Lumber Incr<br>olf)<br>27=-8, 1-13=-80<br>ads (Ib)<br>1760   | ease=1.00, Pla  | te Increase=1.00  |  |   |  |   | 28<br>SHOW                               | CAROLINE<br>SSIDNESS                            |

12/21/2024

| Job           | Truss    | Truss Type | Qty                               | Ply                    | LOT 0.0017 CAMPBELL RIDGE   231 ALDE   | N WAY ANGIER, NC  |
|---------------|----------|------------|-----------------------------------|------------------------|--|---|
| 24-B592-F01   | F107     | FLOOR      | 2                                 | 1                      | Job Reference (optional)   | # 55564   |
|               |          |            | Run: 8.630 s Jul 1:<br>ID:UMCU2t6 | 2 2024 Prin<br>gUxCLqN | t: 8.630 s Jul 12 2024 MiTek Industries, Inc.<br>IIKo_q9qxyaVB1-1vNuqILPPcbkvo12h3 | Sat Dec 21 20:29:39 2024 Page 1<br>3cpSX_?O6O3flqejlzzYOy6ejw |
| 0-1-8         |          |            |                                   |                        |  |   |
| <b> 1-3-0</b> | <u> </u> | 0-0        | <u>  1-0-0_</u> 0-1-0             |                        | 0-8-12 1-11-12 1-1-4   | $S_{22} = 1.261$  |



|   | <u> </u>  | 5-1-10<br>5-1-10   | <u>6-1-10 7-1-10</u><br>1-0-0 1-0-0   | 12-1-10   | <u>12-5-10</u><br>0-4-0  | <u>15-11-6</u><br>3-5-12                             | 16-11-6 <sub> </sub><br> 1-0-0                               | 17-11-6<br>1-0-0             | <u>22-0-6</u><br>4-1-0                          |
|---|---|--|---|---|--|--|--|------------------------------|---|
| Plate O   | ffsets (X,Y)  | [3:0-1-8,Edge], [4:0-1-  | 8,Edge], [17:0-1-   | -8,Edge], [19:0-1-8,Edg   | e], [27:Edge,0-1-8]  |  |  |                              |   |
| LOADIN<br>TCLL<br>TCDL<br>BCLL<br>BCDL  | <b>G</b> (psf)<br>40.0<br>10.0<br>0.0<br>5.0  | SPACING-<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code IRC2021/   | 1-7-3<br>1.00<br>1.00<br>NO<br>TPI2014  | <b>CSI.</b><br>TC 0.84<br>BC 0.65<br>WB 0.36<br>Matrix-SH   | <b>DEFL.</b><br>Vert(LL) -0.0<br>Vert(CT) -0.1<br>Horz(CT) 0.0             | in (loc) l/d<br>17 24-25 >9<br>2 15-16 >9<br>12 14 r | efl L/d<br>99 480<br>44 360<br>n/a n/a                       | PLATES<br>MT20<br>Weight: 11 | <b>GRIP</b><br>244/190<br>14 lb FT = 20%F, 11%E |
| LUMBE<br>TOP CH<br>BOT CH<br>WEBS<br>REACTI   | JMBER-<br>DP CHORD       BRACING-<br>TOP CHORD         OT CHORD 2x4 SP No.1(flat)       TOP CHORD<br>2x4 SP No.3(flat)       Structural wood sheathing directly applied or 6-0-0 oc purlins, except<br>end verticals.         VEBS       2x4 SP No.3(flat)       BOT CHORD       Rigid ceiling directly applied or 10-0-0 oc bracing, Except:<br>6-0-0 oc bracing: 19-20,18-19.         EACTIONS.       (Ib/size)       27=504/0-5-6 (min. 0-1-8), 14=501/0-4-8 (min. 0-1-8), 19=2906/0-4-8 (min. 0-1-8)<br>Max Grav27=518(LC 10), 14=537(LC 4), 19=2906(LC 1)       Non-0-1-8)   |  |   |   |  |  |  |                              |   |
| FORCES<br>TOP CH<br>BOT CH<br>WEBS  | Wax Grav27=518(LC 10), 14=537(LC 4), 19=2906(LC 1)         *ORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         *OP CHORD       27-28=-514/0, 1-28=-513/0, 13-14=-546/0, 1-2=-573/0, 2-3=-1293/0, 3-4=-1469/0,<br>4-5=-1215/0, 5-6=-438/0, 6-7=0/624, 7-8=-398/125, 8-9=-398/125, 9-10=-1241/0,<br>10-11=-1241/0, 11-12=-1241/0, 12-13=-611/0         3OT CHORD       25-26=0/1069, 24-25=0/1469, 23-24=0/1469, 22-23=0/1469, 21-22=0/951, 20-21=0/951,<br>19-20=-270/55, 18-19=-525/0, 17-18=0/915, 16-17=0/1241, 15-16=0/1094         VEBS       6-19=-2322/0, 10-17=-429/0, 7-19=-708/0, 1-26=0/692, 2-26=-646/0, 2-25=0/291,<br>3-25=-292/0, 13-15=0/766, 12-15=-629/0, 4-22=-384/0, 5-22=0/381, 5-20=-697/0,<br>6-20=0/663, 7-18=0/698, 9-18=-755/0, 9-17=0/727 |  |   |   |  |  |  |                              |   |
| NOTES-<br>1) Unba<br>2) All pla<br>3) Reco<br>be att<br>4) CAUT<br>5) Graph<br>the m<br>6) Beari<br>desig | (5-6)<br>lanced floor li<br>lates are 3x4 M<br>mmend 2x6 s<br>iached to wall<br>FION, Do not o<br>nical web brac<br>ember must b<br>ng symbols ar<br>n of the truss   | ve loads have been co<br>AT20 unless otherwise<br>trongbacks, on edge, s<br>s at their outer ends o<br>erect truss backwards.<br>sing representation do<br>braced.<br>re only graphical repre<br>to support the loads ir | nsidered for this<br>indicated.<br>spaced at 10-0-0<br>restrained by ot<br>es not depict the<br>sentations of a p<br>dicated. | design.<br>oc and fastened to eacher means.<br>size, type or the orienta<br>ossible bearing condition | ch truss with 3-10d (0<br>ation of the brace on t<br>on. Bearing symbols a | 0.131" X 3") n<br>he web. Sym<br>are not consid      | ails. Strongback<br>bol only indicate:<br>dered in the struc | s to<br>s that<br>stural     |   |
| LOAD C<br>1) Dead<br>Unifo<br>Conc  | ASE(S) Stand<br>+ Floor Live (<br>rm Loads (plf)<br>Vert: 14-27<br>entrated Load  | dard<br>(balanced): Lumber Ind<br>)<br>=-8, 1-13=-80<br>Is (lb)  | crease=1.00, Pla  | te Increase=1.00  |  |  |  | PROFE                        | CAROLINI, HILL                                  |

Vert: 6=-1760 11=-240

MORALS 20 ahummunun akar 28147 GINE MORA K. 12/21/2024

Scale = 1:36.1



| Job         | Truss | Truss Type | Qty          | Ply         | LOT 0.0017 CAMPBELL RIDGE   231 ALDEN WAY             | ' ANGIER, NC              |
|-------------|-------|------------|--------------|-------------|---|---------------------------|
| 24-B592-F01 | F108  | FLOOR      | 1            | 1           | Job Reference (optional)                              | # 55564                   |
|             |       | Run: 8     | .630 s Jul 1 | 2 2024 Prir | nt: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat De | c 21 20:29:39 2024 Page 2 |

n: 8.630 s\_Jul 12 2024 Print: 8.630 s\_Jul 12 2024 MiTek Industries, Inc.\_Sat Dec 21 20:29:39 2024\_Page 2 ID:UMCU2t6gUxCLqMlKo\_q9qxyaVB1-1vNuqlLPPcbkvo12h3cpSX\_6l6MnfHRejIzzYOy6ejw

LOAD CASE(S) Concentrated Loads (Ib) Vert: 6=-1760 4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 8-15=-8, 1-3=-16, 3-7=-80 Concentrated Loads (Ib) Vert: 6=-1760 5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 8-15=-8, 1-4=-80, 4-7=-16 Concentrated Loads (Ib) Vert: 6=-1760

6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 8-15=-8, 1-3=-16, 3-7=-80 Concentrated Loads (lb) Vert: 6=-1760





|   | 5-1-10   | 1-0-0   | 1-0-0  | 5-0-0   |                                 | 0-8-14                                   |
|---|--|---|--|---|---------------------------------|--|
| Plate Offsets (X,Y)   | [1:Edge,0-1-8], [3:0-1-8,Edge], [4:0-1   | 8,Edge], [8:Edge,0-3-0], [                                | [16:Edge,0-1-8], [18:0-  | -1-8,0-0-8]   |                                 |  |
| 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 NO<br>Code IRC2021/TPI2014 | <b>CSI.</b><br>TC 0.56<br>BC 0.71<br>WB 0.61<br>Matrix-SH | <b>DEFL.</b> in<br>Vert(LL) -0.10<br>Vert(CT) -0.20<br>Horz(CT) 0.03 | (loc) l/defi L/d<br>11-12 >999 480<br>11-12 >747 360<br>8 n/a n/a | PLATES<br>MT20<br>Weight: 68 lb | <b>GRIP</b><br>244/190<br>FT = 20%F 11%F |
| 0.0   |  |   |  |   | Wolght. 00 lb                   | 11 20/01, 11/02                          |
| LUMBER-<br>TOP CHORD 2x4 SP<br>BOT CHORD 2x4 SP                 | No.1(flat)<br>SS(flat)   |   | BRACING-<br>TOP CHORD  | Structural wood sheathing d<br>end verticals.                     | irectly applied or 6-0          | )-0 oc purlins, except                   |
| WEBS 2x4 SP   | No.3(flat)   |   | BOT CHORD  | Rigid ceiling directly applied                                    | or 10-0-0 oc bracing            | g.                                       |

REACTIONS. (lb/size) 16=771/0-5-6 (min. 0-1-8), 8=2365/0-5-6 (min. 0-1-8)

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

TOP CHORD 16-17=-770/0, 1-17=-768/0, 1-2=-878/0, 2-3=-2082/0, 3-4=-2549/0, 4-5=-2506/0, 5-6=-1835/0

BOT CHORD 14-15=0/1631, 13-14=0/2549, 12-13=0/2549, 11-12=0/2549, 10-11=0/2349, 9-10=0/1339, 8-9=0/1339

WEBS 3-13=0/295, 1-15=0/1061, 2-15=-981/0, 2-14=0/612, 3-14=-771/0, 5-10=-669/0, 6-10=0/671, 6-8=-2696/0

NOTES- (6-7)

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

2) All plates are 3x4 MT20 unless otherwise indicated.

3) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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 web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

#### LOAD CASE(S)

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

Uniform Loads (plf) Vert: 8-16=-10, 1-7=-100 Concentrated Loads (lb) Vert: 6=-1760 2) Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 8-16=-10, 1-7=-100 Concentrated Loads (lb) Vert: 6=-1760 3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 8-16=-10, 1-4=-100, 4-7=-20



Continued on page 2

| Job         | Truss | Truss Type | Qty        | Ply          | LOT 0.0017 CAMPBELL RIDGE   231 ALDE           | EN WAY ANGIER, NC               |
|-------------|-------|------------|------------|--------------|--|---------------------------------|
| 24-B592-F01 | F109  | FLOOR      | 1          | 1            | Job Reference (optional)                       | # 55564                         |
|             |       | Run        | 8630 e lul | 12 2024 Prin | at: 8.630 s. Jul 12 2024 MiTek Industries Inc. | Sat Dec 21 20:20:40 2024 Page 2 |

tun: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Dec 21 20:29:40 2024 Page 2 ID:UMCU2t6gUxCLqMIKo\_q9qxyaVB1-V5xG15L2AvjbXycEEn72?kXFOVjROhAoxyiX4qy6ejv

LOAD CASE(S)

Concentrated Loads (lb) Vert: 6=-1760

4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

- Vert: 8-16=-10, 1-3=-20, 3-7=-100
- Concentrated Loads (lb) Vert: 6=-1760
- 5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf)
- Vert: 8-16=-10, 1-4=-100, 4-7=-20 Concentrated Loads (lb)
- Vert: 6=-1760
- 6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
  - Uniform Loads (plf) Vert: 8-16=-10, 1-3=-20, 3-7=-100
  - Concentrated Loads (lb)
- Vert: 6=-1760



| Job  | Truss   | Truss Type  | Qty Plv                         | LOT 0.0017 CAMPBELL   | RIDGE   231 ALDEN W                                   | /AY ANGIER, NC              |
|--|---|---|---------------------------------|---|---|-----------------------------|
| 24-B592-F01  | F110  | Floor Supported Gable                                   |                                 |   | )   | # 55564                     |
|  |   |   | Run: 8.630 s Jul 12 202         | Job Reference (option<br>24 Print: 8.630 s Jul 12 2024 Mi<br>MIKo g9gxyaVB1-V5xG1 | nal)<br>Tek Industries, Inc. Sat<br>5L2AvibXvcEEn722k | Dec 21 20:29:40 2024 Page 1 |
| 0 <sub>117</sub> 8   |   |   |                                 |   |   | 0 <sub>11-8</sub>           |
|  |   |   |                                 |   |   | Scale = 1:20.9              |
|  |   |   |                                 |   |   |                             |
|  |   | 12-0-   | -12                             |   |   |                             |
|  |   |   | 2:4 -                           |   |   | 3x4                         |
|  | 2 3   | 4 5   | 6 <sup>3x4</sup> 7              | 8   | 9   | 10 11                       |
| 23 🗌   |   |   |                                 | •   | •   |                             |
|  | ST1 ST1   | ST1 ST1   | ST1 VV2 ST1                     | ST1   | ST1   | ST1 BL 2                    |
|  | •   | <b>0</b>  | B1                              | •   | •   |                             |
|  |   |   |                                 |   |   |                             |
| 22 - 2<br>3x4  | 21 20   | 19 18   | 3x4 =                           | 15  | 14  | 13 12<br>3x4    3x4         |
|  |   |   |                                 |   |   |                             |
|  |   |   |                                 |   |   |                             |
|  |   |   |                                 |   |   |                             |
|  |   |   |                                 |   |   |                             |
|  |   |   | 12-10-8                         |   |   |                             |
| Plate Offsets (X,Y)  | [6:0-1-8.Edae]. [16:0-1-8.Eda                                   | e]. [22:Edge.0-1-8]                                     | 12-10-8                         |   |   |                             |
|  | SPACING 1 7   |   | DEEL in (lo                     | c) l/defl l/d   |   | CPIP                        |
| TCLL 40.0  | Plate Grip DOL 1.0  | 0 TC 0.07   | Vert(LL) n/a                    | - n/a 999   | MT20  | 244/190                     |
| BCLL 0.0   | Rep Stress Incr N   | D BC 0.01<br>D WB 0.21                                  | Vert(CT) n/a<br>Horz(CT) 0.00 1 | - n/a 999<br>12 n/a n/a   |   |                             |
| BCDL 5.0   | Code IRC2021/TPI201   | 4 Matrix-SH   |                                 |   | Weight: 59 lb   | FT = 20%F, 11%E             |
| LUMBER-  | PNo 1(flat)   |   | BRACING-<br>TOP CHORD Stru      | uctural wood sheathing di   | rectly applied or 6-                                  | 0-0 oc purlins except       |
| BOT CHORD 2x4 SF   | P No.1(flat)  |   | end                             | l verticals.  | or 10.0.0 oo brooir                                   |                             |
| OTHERS 2x4 SF  | PN0.3(flat)   |   | BOT CHORD Kig                   | id centing directly applied   |   | ıg.                         |
| REACTIONS. All be  | earings 12-10-8.  |   |                                 |   |   |                             |
| (lb) - Max G   | rav All reactions 250 lb or le                                  | ss at joint(s) 22, 12, 21, 20, 19, 18                   | 3, 17, 16, 15, 14 except 13     | =1849(LC 1)   |   |                             |
| FORCES. (Ib) - Max.  | Comp./Max. Ten All forces                                       | 250 (lb) or less except when sho                        | wn.                             |   |   |                             |
|  |   |   |                                 |   |   |                             |
| 1) All plates are 1.5x3  | MT20 unless otherwise indic                                     | ated.   |                                 |   |   |                             |
| <ol> <li>2) Gable requires con</li> <li>3) Truss to be fully sh</li> </ol> | tinuous bottom chord bearing<br>eathed from one face or secu    | rely braced against lateral moven                       | nent (i.e. diagonal web).       |   |   |                             |
| 4) Gable studs space   | d at 1-4-0 oc.<br>bas/bave been modified. Build                 | ing designer must review loads to                       | verify that they are correc     | t for the intended use of t   | his   |                             |
| truss.   |   | at 10.0.0. as and fastered to and                       |                                 |   | 1   |                             |
| be attached to wall  | trongbacks, on edge, spaced<br>s at their outer ends or restrai | at 10-0-0 oc and fastened to eac<br>ned by other means. | n truss with 3-10d (0.131".     | X 3") nalis. Strongbacks  | to  |                             |
| <ol> <li>Graphical web brac<br/>the member must b</li> </ol>               | cing representation does not on the braced.                     | epict the size, type or the orienta                     | tion of the brace on the we     | b. Symbol only indicates  | that  |                             |
| 8) Bearing symbols an  | e only graphical representation                                 | ons of a possible bearing condition                     | n. Bearing symbols are not      | t considered in the structu   | ıral  |                             |
|  | to support the loads indicated                                  |   |                                 |   |   |                             |
| 1) Dead + Floor Live (   | (balanced): Lumber Increase=                                    | 1.00, Plate Increase=1.00                               |                                 |   |   |                             |
| Uniform Loads (plf)<br>Vert: 12-22   |   |   |                                 |   | WINNITH CA  | ROUT                        |
| Concentrated Load  | s (lb)<br>760   |   |                                 |   | OFESS   | BAN SIL                     |
| 2) Dead: Lumber Incr   | ease=1.00, Plate Increase=1.                                    | 00  |                                 |   | and and   | Sec. and                    |
| Uniform Loads (plf)<br>Vert: 12-22   | =-8, 1-11=-80   |   |                                 |   | SEA<br>2814   |                             |
| Concentrated Load<br>Vert: 10=-1   | s (lb)<br>760   |   |                                 | 8   | 2014  | 1                           |
|  |   |   |                                 |   | THE AS SNOINE   | ET. C. MAR                  |
|  |   |   |                                 |   | MARK K. N   | NORPHININ                   |
|  |   |   |                                 |   | A12.11 + 53 + 1 + 1                                   | 111111                      |

12/21/2024

| Job  | Truss   | Truss Type                             | Qty                     | Ply                    | LOT 0.0017 CAMPBELL R                                   | IDGE   231 ALDEN WAY AN       | IGIER, NC            |
|--|---|--|-------------------------|------------------------|---|-------------------------------|----------------------|
| 24-B592-F01  | F111  | FLOOR                                  | 1                       | 1                      | loh Roforonce (anti-                                    | #                             | 4 55564              |
|  |   |  | Run: 8.630 s Jul 1      | 2 2024 Prin            | 1300 Reference (optiona<br>ht: 8.630 s Jul 12 2024 MiTe | k Industries, Inc. Sat Dec 21 | 20:29:40 2024 Page 1 |
|  | 4.2.0   | 0.44.0                                 | ID:UMCU2t6              | gUXCLqM                | IKo_q9qxyaVB1-V5xG1                                     | 5L2AVJDXyCEEn72?KXKI          | /u_Oq?oxyiX4qy6ejv   |
| H  | 1-3-0   |  |                         |                        |   | 0-5-4                         | H                    |
|  |   |  |                         |                        |   |                               | Scale = 1:17.2       |
|  |   |  |                         |                        |   |                               |                      |
|  |   |  |                         |                        |   |                               |                      |
|  |   |  |                         |                        |   |                               |                      |
| , 3x6 =  |   | 2 3x6 =                                |                         | 4                      |   | F                             | c                    |
|  |   | 2 3                                    | T1                      | 4                      |   |                               | o<br>م               |
|  |   |  |                         |                        |   |                               |                      |
| 9 W1   | $\land$ /   |  | . /                     |                        |   |                               |                      |
|  |   |  | $\sim$ //               |                        |   | VV4                           |                      |
|  |   |  |                         |                        |   | $\checkmark$ $\dashv$         |                      |
|  |   |  |                         | ~~~~                   | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~                 |                               |                      |
|  |   |  |                         | $\times$               |   |                               | $\bigotimes$         |
|  | 11  |  |                         | $\times$               |   |                               | $\boxtimes$          |
|  |   | 3x6 =                                  |                         |                        |   | 3:                            | x6 =                 |
|  |   |  |                         |                        |   |                               |                      |
|  |   |  |                         |                        |   |                               |                      |
|  |   |  |                         |                        |   |                               |                      |
|  | 160   | 200 200 52                             | 0                       | 7 0                    | 20  | 044                           | 074                  |
|  | 1-6-0   | 2-2-0 0-1-8 1-4-                       | -8                      | 2-6                    | i-0   | 1-8-4                         | 0-3-0                |
| Plate Offsets (X,Y) [12  | 2:Edge,0-1-8]                                       |  |                         |                        |   |                               |                      |
| LOADING (psf)  | <b>SPACING-</b> 1-7-3                               | CSI.                                   | DEFL. in                | (loc) l                | l/defl L/d  | PLATES GRI                    | þ                    |
| TCLL 40.0  | Plate Grip DOL 1.00                                 | TC 0.22<br>BC 0.03                     | Vert(LL) -0.00          | 11 >                   | >999 480<br>>999 360                                    | MT20 244/                     | 190                  |
| BCLL 0.0   | Rep Stress Incr YES                                 | WB 0.05                                | Horz(CT) 0.00           | 7                      | n/a n/a   |                               |                      |
| BCDL 5.0   | Code IRC2021/TPI2014                                | Matrix-SH                              |                         |                        |   | Weight: 54 lb F               | T = 20%F, 11%E       |
| LUMBER-  |   |  | BRACING-                |                        |   |                               |                      |
| TOP CHORD 2x4 SP N   | o.1(flat)   |  | TOP CHORD               | Structura<br>ond verti | al wood sheathing dire                                  | ectly applied or 6-0-0 oc     | purlins, except      |
| WEBS 2x4 SP N  | o.3(flat)   |  | BOT CHORD               | Rigid cei              | iling directly applied o                                | r 10-0-0 oc bracing, E        | xcept:               |
|  | ingo 5 11 4 overat (it-langth                       | 12-0.4.8                               |                         | 6-0-0 oc               | bracing: 9-10.  |                               |                      |
| (lb) - Max Grav  | <ul> <li>All reactions 250 lb or less</li> </ul>    | s at joint(s) 12, 7, 9, 8 except 10=8  | 513(LC 1)               |                        |   |                               |                      |
| FORCES (Ib) May C  | omn /May Ten All forace 2                           | 50 (lb) or less except when show       | n                       |                        |   |                               |                      |
| WEBS 3-10=-3   | 47/0  | So (in) of less except when Show       |                         |                        |   |                               |                      |
|  |   |  |                         |                        |   |                               |                      |
| 1) All plates are 3x4 MT   | 20 unless otherwise indicate                        | d.                                     |                         |                        |   |                               |                      |
| 2) Load case(s) 1, 2 has   | /have been modified. Buildin                        | g designer must review loads to v      | verify that they are co | rrect for t            | the intended use of th                                  | is                            |                      |
| 3) Recommend 2x6 stro  | nabacks on edge spaced at                           | t 10-0-0 oc and fastened to each       | truss with 3-10d (0.1   | 31" X 3")              | nails Strongbacks to                                    | 0                             |                      |
| be attached to walls a   | t their outer ends or restraine                     | ed by other means.                     |                         | 01 7(0)                |   |                               |                      |
| <ol> <li>CAUTION, Do not ere</li> <li>Graphical web bracing</li> </ol> | ct truss backwards.<br>a representation does not de | nict the size, type or the orientation | on of the brace on the  | web Sv                 | mbol only indicates th                                  | nat                           |                      |
| the member must be   | braced.   |  |                         | , web. Cy              |   |                               |                      |
| 6) Bearing symbols are of the truss to                                 | only graphical representation                       | s of a possible bearing condition.     | Bearing symbols are     | e not cons             | sidered in the structur                                 | al                            |                      |
| design of the truss to   | support the loads mulcated.                         |  |                         |                        |   |                               |                      |
| LOAD CASE(S)   | I = = = = 1). I                                     |  |                         |                        |   |                               |                      |
| Uniform Loads (plf)  | lanced). Lumber increase- i                         | .00, Plate Increase - 1.00             |                         |                        |   |                               |                      |
| Vert: 7-12=-8,   | 1-6=-80   |  |                         |                        |   |                               |                      |
| Vert: 3=-240   | (D)   |  |                         |                        |   |                               |                      |
| 2) Dead: Lumber Increas  | se=1.00, Plate Increase=1.00                        | )                                      |                         |                        |   | WHEATH CARO                   | 1111                 |
| Unitorm Loads (plf)  | 1-6=-80   |  |                         |                        |   | OFESSIO                       | Valle                |
| Concentrated Loads (   | lb)   |  |                         |                        | 111.  | Por Ag                        |                      |
| Vert: 3=-240   |   |  |                         |                        | Int   | SEAL                          |                      |
|  |   |  |                         |                        | 1111  | 28147                         |                      |
|  |   |  |                         |                        | 1 miles   | (                             |                      |
|  |   |  |                         |                        |   | A NOINEER                     | S. HIM               |
|  |   |  |                         |                        |   | MARK K MORA                   | anne.                |
|  |   |  |                         |                        |   | All the second shift          |                      |

12/21/2024



REACTIONS. (lb/size) 6=401/0-5-6 (min. 0-1-8), 4=174/0-4-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 6-7=-399/0, 1-7=-398/0

NOTES- (4-5)

1) Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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 web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

#### LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 4-6=-8, 1-3=-80 Concentrated Loads (lb)

Vert: 1=-240

2) Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 4-6=-8, 1-3=-80

Concentrated Loads (lb) Vert: 1=-240



| Job  | Truss   | Truss Type                          | Qty                        | Ply         | LOT 0.0017 CAMPBEL       | L RIDGE   231 ALDEN                          | WAY ANGIER, NC              |              |
|--|---|-------------------------------------|----------------------------|-------------|--------------------------|--|-----------------------------|--------------|
| 24-B592-F01  | F112  | Floor Supported Gable               | 1                          | 1           | Job Poforanco (onti      |  | # 55564                     |              |
|  |   |                                     | Run: 8.630 s Jul 1         | 2 2024 Prin | t: 8.630 s Jul 12 2024 N | fiTek Industries, Inc. S<br>MaxDrS96BOol JeH | at Dec 21 20:29:41 2024 Pac | ge 1<br>6eii |
| 0 <sub>1</sub> 18  |   |                                     | ID.0MC02l0g0xC             | Lqiviirto_q | Badyavb1110eFix          | NgxDI 390DQ00el I                            | Ty4TEVEa/GVAC64C6yC         | oeju         |
|  |   |                                     |                            |             |                          |  |                             |              |
|  |   |                                     |                            |             |                          |  | Scale = 1:2                 | 21.6         |
|  |   |                                     |                            |             |                          |  |                             |              |
|  |   |                                     |                            |             |                          |  |                             |              |
|  |   |                                     | 3x4                        |             |                          |  | 3x4                         |              |
| 1 2  | 3   | 4 5                                 | 6 <sup>3X4</sup> 78        |             | 9                        | 10   | 11 12                       | т            |
| 25 🗆   | •   |                                     |                            |             | <u>•</u>                 | <u> </u>                                     |                             |              |
| ST1  | ST1   | ST1 ST1                             | ST1 W2 ST1 ST1             |             | ST1                      | ST1  | ST1 W1                      | 1-2-0        |
|  |   |                                     |                            |             |                          |  |                             |              |
|  |   |                                     |                            | $\times$    | ******                   |  |                             | T            |
| 24 23  | 22  | 21 20                               | 19 18 17                   |             | 16                       | 15   | 14 13<br>2×4 II             |              |
| 3x4  |   |                                     | 5x0 —                      |             |                          |  | 584                         |              |
|  |   |                                     |                            |             |                          |  |                             |              |
|  |   |                                     |                            |             |                          |  |                             |              |
|  |   |                                     |                            |             |                          |  |                             |              |
|  | 7   | -8-10                               |                            |             | 1                        | 3-3-6  |                             |              |
| Plate Offsets (X,Y) [6:0   | 7<br>-1-8,Edge], [24:Edge,0-1-8                 | -8-10                               | 1                          |             | 5                        | -6-12  | I                           |              |
|  | SPACING- 1-7-3                                  | CSI                                 | DEEL in                    | (loc) l     | /defl I/d                | PI ATES                                      | GRIP                        | =            |
| TCLL 40.0  | Plate Grip DOL 1.00                             | TC 0.05                             | Vert(LL) n/a               | -           | n/a 999                  | MT20   | 244/190                     |              |
| BCLL 0.0   | Rep Stress Incr YES                             | WB 0.07                             | Horz(CT) 0.00              | 13          | n/a 999<br>n/a n/a       |  |                             |              |
| BCDL 5.0   | Code IRC2021/TPI2014                            | Matrix-SH                           |                            |             |                          | Weight: 61                                   | lb FT = 20%F, 11%           | ,E           |
| LUMBER-  | 1(flat)   |                                     | BRACING-                   | Structure   | al wood sheathing        | directly applied or                          | 6-0-0 oc purlins excer      | nt           |
| BOT CHORD 2x4 SP No  | p.1(flat)                                       |                                     |                            | end verti   | cals.                    |  |                             | ~            |
| OTHERS 2x4 SP No   | o.3(flat)<br>o.3(flat)                          |                                     | BOI CHORD                  | Rigid cei   | ling directly applie     | d or 10-0-0 oc bra                           | sing.                       |              |
| REACTIONS. All bearing   | nas 13-3-6.                                     |                                     |                            |             |                          |  |                             |              |
| (lb) - Max Grav  | All reactions 250 lb or less                    | s at joint(s) 13, 23, 22, 21, 20, 7 | 19, 17, 16, 15, 14 excep   | t 24=279    | (LC 1),                  |  |                             |              |
|  | 10-054(LC T)                                    |                                     |                            |             |                          |  |                             |              |
| TOP CHORD 24-25=-2   | mp./Max. Ten All forces 2<br>?75/0, 1-25=-275/0 | 250 (lb) or less except when sh     | own.                       |             |                          |  |                             |              |
| WEBS 7-18=-63  | 85/0  |                                     |                            |             |                          |  |                             |              |
| <b>NOTES-</b> (8-9)  |   | 4 J                                 |                            |             |                          |  |                             |              |
| 2) Gable requires continu  | ous bottom chord bearing.                       | lea.                                |                            |             |                          |  |                             |              |
| <ul><li>3) Truss to be fully sheath</li><li>4) Gable studs spaced at</li></ul> | ned from one face or secure<br>1-4-0 oc.        | ely braced against lateral move     | ment (i.e. diagonal web    | ).          |                          |  |                             |              |
| 5) Load case(s) 1, 2 has/  | have been modified. Buildir                     | ng designer must review loads       | to verify that they are co | rrect for t | the intended use of      | f this                                       |                             |              |
| 6) Recommend 2x6 stron   | gbacks, on edge, spaced a                       | t 10-0-0 oc and fastened to ea      | ch truss with 3-10d (0.1   | 31" X 3")   | nails. Strongback        | s to   |                             |              |
| 7) CAUTION, Do not erec  | t truss backwards.                              | ed by other means.                  |                            |             |                          |  |                             |              |
| <ol> <li>B) Graphical web bracing<br/>the member must be b</li> </ol>          | representation does not de<br>raced.            | pict the size, type or the orient   | ation of the brace on the  | e web. Sy   | mbol only indicate       | s that                                       |                             |              |
| 9) Bearing symbols are o   | nly graphical representation                    | is of a possible bearing condition  | on. Bearing symbols are    | not cons    | sidered in the struc     | tural  |                             |              |
|  | ,   |                                     |                            |             |                          | ANNIEL CONTRACTOR                            | ADUINA                      |              |
| 1) Dead + Floor Live (bala   | anced): Lumber Increase=1                       | .00, Plate Increase=1.00            |                            |             |                          | UNIORTH C                                    | AHOLIN                      |              |
| Uniform Loads (plf)<br>Vert: 13-24=-8  | . 1-12=-80                                      |                                     |                            |             |                          | in the                                       | No. 7 III                   |              |
| Concentrated Loads (II   | b)<br>= 640                                     |                                     |                            |             |                          | SE   | AL                          |              |
| 2) Dead: Lumber Increas  | e=1.00, Plate Increase=1.0                      | 0                                   |                            |             |                          | 281  | 47   =                      |              |
| Uniform Loads (plf)<br>Vert: 13-24=-8  | , 1-12=-80                                      |                                     |                            |             |                          | THE SALE                                     | A M                         |              |
| Concentrated Loads (II   | b)<br>=-640                                     |                                     |                            |             |                          | ARK  | AORA UNIT                   |              |
| VGIL 12407   | 510   |                                     |                            |             |                          | Minner K.                                    | Machinger                   |              |
|  |   |                                     |                            |             |                          | 12/  | 21/2024                     |              |

| Job                        | Truss                      | Truss Type                        | Qty                      | / Ply                              | LOT 0.0017 CAMPBELL                           | RIDGE   231 ALDEN W                          | AY ANG                | ER, NC                                |
|----------------------------|----------------------------|-----------------------------------|--------------------------|------------------------------------|---|--|-----------------------|---------------------------------------|
| 24-B592-F01                | F114                       | FLOOR SUPPORTED GABL              | 1                        | 1                                  | Ioh Reference (ontion                         | nal)   | # .                   | 55564                                 |
| 0-1-8<br>∦                 |                            |                                   | Run: 8.630<br>ID:UMCU2tr | s Jul 12 2024 Prii<br>6gUxCLqMIKo_ | nt: 8.630 s Jul 12 2024 Mi<br>q9qxyaVB1HUeFRM | Fek Industries, Inc. Sat<br>IgxDrS96BQoUeHYy | Dec 21 20<br>/4Y?vEb7 | :29:41 2024 Page 1<br>'HaxAcS4cGy6eju |
|                            |                            |                                   |                          |                                    |   |  |                       | Scale = 1:37.5                        |
|                            |                            |                                   | 3x4 =                    | 3x8 FP=                            |   |  |                       | 3x4                                   |
| 1 2                        | 3 4 5                      | 6 7 8                             | 9 10                     | 11 12 13                           | 14 15   | 16 17<br>T2                                  | 18                    | 19                                    |
|                            | ST1 ST1 ST1                | STI STI STI S                     | ST1 W2 ST1 S             | TI STI                             | ST1 ST1<br>B2<br>XXXXXXXXXXXX                 | STI STI                                      |                       |                                       |
| 38 37                      | 36 35 34                   | 33 32 31 30                       | 29 28 2                  | 27 26                              | 25 24   | 23 22  | 21                    | 20                                    |
| 3x4                        |                            | 3x8 FP                            | ) <u> </u>               |                                    |   |  |                       | 3x4                                   |
|                            |                            |                                   | 3x4 =                    |                                    |   |  |                       |                                       |
| I                          |                            |                                   | 22-10-14                 |                                    |   |  |                       |                                       |
| Plate Offsets (X Y)        | [10:0-1-8 Edge] [29:0-1-8  | Edge] [38:Edge 0-1-8]             | 22-10-14                 |                                    |   |  |                       |                                       |
| LOADING (psf)<br>TCLL 40.0 | SPACING-<br>Plate Grip DOL | 1-7-3 <b>CSI.</b><br>1.00 TC 0.06 | DEFL.<br>Vert(LL)        | in (loc)<br>n/a -                  | l/defl L/d<br>n/a 999                         | PLATES<br>MT20                               | <b>GRIP</b> 244/19    | 0                                     |

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

n/a

20

end verticals.

0.00

n/a

n/a

999

n/a

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

| REACTIONS.     | All bearings 22-10-14.                 |           |
|----------------|--|-----------|
| WEBS<br>OTHERS | 2x4 SP No.3(flat)<br>2x4 SP No.3(flat) | BOT CHORD |
| BOT CHORD      | 2x4 SP No 1(flat)                      |           |
|                |  |           |

1.00

YES

Lumber DOL

Rep Stress Incr

Code IRC2021/TPI2014

(lb) - Max Grav All reactions 250 lb or less at joint(s) 38, 20, 37, 36, 35, 34, 33, 32, 31, 29, 28, 27, 26, 25, 24, 23, 22, 21

BC

WB

Matrix-SH

0.01

0.03

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

#### NOTES- (7-8)

TCDL

BCLL

BCDL

LUMBER-

10.0

0.0

5.0

TOP CHORD 2x4 SP No.1(flat)

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

2) Gable requires continuous bottom chord bearing.

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

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

5) 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.

6) CAUTION, Do not erect truss backwards.

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

8) 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.

LOAD CASE(S) Standard



FT = 20%F, 11%E

Weight: 97 lb

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

| Job   | Truss  | Truss Type   | Qty   | Ply  | LOT 0.0017 CAMPBELL RIDGE   231  | ALDEN WAY ANGIER, NC   |
|---|--|--|---|--|--|--|
| 24-B592-F01   | F115   | FLOOR  | 2<br>Run: 8.630 s Jul 1   | 1<br>2 2024 Pr                                 | Job Reference (optional)<br>int: 8.630 s Jul 12 2024 MiTek Industries  | # 55564<br>s, Inc. Sat Dec 21 20:29:41 2024 Page 1   |
| 0-1-8<br>H∣── <mark>1-3-0</mark> ─┤   | <u>₽-6-3</u>   |  | ID:UMCU2t6gUx<br><u>q-5-1</u> 5   | CLqMIKo<br>⊢                                   | _q9qxyaVB1HUeFRMgxDrS96B<br><u>1-2-8</u> _   <u>2-0-0</u>  | QoUeHYy4Olv4w79oxAcS4cGy6eji<br>  <u>0-10-4</u><br> Scale = 1:38.3                         |
| 1.5x3 = 1   | 1.5x3<br>2 3 4<br>1<br>2<br>8<br>1<br>8<br>1<br>8<br>1<br>2<br>6<br>2<br>5   | 24 23 22<br>1.5x3    3x8 FP=   | 4x4 =<br>3x8 FP = 4x6<br>7 8 9<br>21<br>21<br>20<br>4x4 = 3x6 =   | =<br>19<br>4x6                                 | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   | 4x6 =<br>12 3113<br>4x6 =<br>12 3113<br>4x6 =  |
| ⊢ 1-6-0<br>1-6-0<br>Plate Offsets (X,Y) [5:0  | 4-0-0 5-9-3 5-10-11<br>2-6-0 1-9-3 0-1-8<br>1-2-1-8,Edge], [10:0-1-8,Edge  | 0-11<br>   | 14<br>13-9-2<br><u>13-6-2 13-7-10</u><br>1-8-15 0-7-8<br>0-1-8<br>], [28:Edge,0-1-8]  | 1-11-14<br>15-0-2<br>1-2-12<br>0-0-4           | 16-2-10 17-4-2<br>2 <u>16:4-2 18-4-2 19-8-10</u><br>1-2-8 0-11-8 1-0-0 1-4-8 1<br>. 1-0-0                      | 22-2-10 23-3-14<br>2-6-0 1-1-4   |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           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  | CSI.<br>TC 0.68<br>BC 0.69<br>WB 0.53<br>Matrix-SH   | <b>DEFL.</b> in<br>Vert(LL) -0.09<br>Vert(CT) -0.19<br>Horz(CT) 0.03  | (loc)<br>25-26<br>16-17<br>14                  | I/defi L/d PLAT<br>>999 480 MT20<br>>603 360<br>n/a n/a Weig   | FES         GRIP           0         244/190           aht: 117 lb         FT = 20%F, 11%E |
| LUMBER-           TOP CHORD         2x4 SP N           BOT CHORD         2x4 SP N           B2: 2x4 S           WEBS         2x4 SP N   | o.1(flat)<br>o.1(flat) *Except*<br>P SS(flat)<br>o.3(flat)   |  | BRACING-<br>TOP CHORD<br>BOT CHORD  | Structur<br>end ver<br>Rigid ce<br>6-0-0 of    | ral wood sheathing directly appl<br>ticals.<br>eiling directly applied or 10-0-0 o<br>c bracing: 20-21,19-20.  | ied or 6-0-0 oc purlins, except<br>oc bracing, Except:                                     |
| REACTIONS.         (Ib/size)<br>Max Grav           FORCES.         (Ib) - Max. Cc           TOP CHORD         28-29=-1           9-10=-61         9-10=-61           BOT CHORD         26-27=0           20-21=-1         WEBS           10-18=0         3-26=-31           8-20=-11         8-20=-11                     | 28=576/0-5-6 (min. 0-1-8),<br>/28=586(LC 10), 14=748(LC<br>pmp./Max. Ten All forces 2<br>582/0, 1-29=-581/0, 13-14=-<br>78/0, 5-30=-1636/0, 6-30=-1<br>04/135, 10-11=-1554/0, 11-<br>/1244, 25-26=0/1816, 24-25<br>311/23, 19-20=-837/0, 18-19<br>/363, 11-17=-320/0, 9-20=-8<br>60/0, 3-25=-48/344, 5-23=-3<br>096/0, 9-19=0/1106, 10-19= | 14=698/0-4-8 (min. 0-1-8), 20=1<br>24), 20=1793(LC 1)<br>250 (lb) or less except when show<br>735/0, 1-2=-665/0, 2-3=-1539/0, 3<br>636/0, 6-7=-686/0, 7-8=-686/0, 8-<br>12=-1547/0, 12-31=-594/0, 13-31=<br>=0/1878, 23-24=0/1878, 22-23=0<br>0=0/1554, 17-18=0/1554, 16-17=0<br>042/0, 1-27=0/804, 2-27=-754/0, 2<br>74/0, 6-23=0/375, 6-21=-940/0, 8<br>-1374/0, 12-15=-998/0, 13-15=0/8 | 793/0-4-8 (min. 0-1-<br>n.<br>3-4=-1878/0,<br>9=0/837,<br>594/0<br>/1380, 21-22=0/1380<br>0/1554, 15-16=0/136<br>2-26=0/385,<br>-21=0/949,<br>368 | 8)<br>),<br>I                                  |  |  |
| NOTES- (6-7)<br>1) Unbalanced floor live<br>2) All plates are 3x4 MT2<br>3) Load case(s) 1, 2, 3, 4<br>are correct for the inte<br>4) Recommend 2x6 stron<br>be attached to walls a<br>5) CAUTION, Do not ere<br>6) Graphical web bracing<br>the member must bef<br>7) Bearing symbols are of<br>design of the truss to a | loads have been considered<br>20 unless otherwise indicate<br>4, 5, 6, 7, 8, 9, 10, 11, 12, 13<br>nded use of this truss.<br>ngbacks, on edge, spaced a<br>t their outer ends or restrain<br>ct truss backwards.<br>g representation does not de<br>oraced.<br>only graphical representation<br>support the loads indicated.               | l for this design.<br>d.<br>b, 14 has/have been modified. Bui<br>t 10-0-0 oc and fastened to each<br>ed by other means.<br>spict the size, type or the orientation<br>as of a possible bearing condition.  | lding designer must<br>truss with 3-10d (0.1<br>on of the brace on the<br>Bearing symbols are   | review lo<br>31" X 3'<br>e web. S<br>e not cor | bads to verify that they<br>) nails. Strongbacks to<br>ymbol only indicates that<br>hsidered in the structural | TH CAROLINII   |
| LOAD CASE(S) Standar<br>1) Dead + Floor Live (ba<br>Uniform Loads (plf)<br>Vert: 14-28=-8<br>2) Dead: Lumber Increas<br>Uniform Loads (plf)<br>Vert: 14-28=-8   | d<br>lanced): Lumber Increase=1<br>3, 1-30=-80, 30-31=-160, 13<br>se=1.00, Plate Increase=1.0<br>3, 1-30=-80, 30-31=-160, 13   | .00, Plate Increase=1.00<br>.31=-80<br>.31=-80   |   |  | ALL STREET   | SEAL<br>28147  |
| Continued on page 2   |  | afore use. This design is based and the  | on paramatars shows   | d in fam -                                     | n individual building component to b   | 12/21/2024   |

| Job         | Truss | Truss Type      | Qty                     | Ply                    | LOT 0.0017 CAMPBELL RIDGE   231 ALDEN WAY   | ANGIER, NC  |
|-------------|-------|-----------------|-------------------------|------------------------|---|---|
| 24-B592-F01 | F115  | FLOOR           | 2                       | 1                      | Job Reference (optional)  | # 55564   |
|             |       | Run: 8<br>ID:UM | 630 s Jul 1<br>CU2t6gUx | 2 2024 Prin<br>CLqMIKo | nt: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat De<br>_q9qxyaVB1-SU20SnNIiXzJmGmdMB9W49c | c 21 20:29:42 2024 Page 2<br>Y2JQ9sc25PGBd8jy6ejt |

LOAD CASE(S) Standard

- 3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 14-28=-8, 1-30=-80, 9-30=-160, 9-31=-96, 13-31=-16
- 4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 14-28=-8, 1-30=-16, 9-30=-96, 9-31=-160, 13-31=-80 5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 14-28=-8, 1-30=-80, 9-30=-160, 9-31=-96, 13-31=-16 6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf) Vert: 14-28=-8, 1-30=-16, 9-30=-96, 9-31=-160, 13-31=-80
- 7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 14-28=-8, 1-5=-80, 5-30=-16, 9-30=-96, 9-31=-160, 13-31=-80 8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 14-28=-8, 1-4=-16, 4-30=-80, 30-31=-160, 13-31=-80 9) 3rd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 14-28=-8, 1-30=-80, 11-30=-160, 11-31=-96, 13-31=-16 10) 4th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 14-28=-8, 1-30=-80, 9-30=-160, 9-10=-96, 10-31=-160, 13-31=-80 11) 5th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf) Vert: 14-28=-8, 1-5=-80, 5-30=-16, 9-30=-96, 9-31=-160, 13-31=-80 12) 6th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf)
- Vert: 14-28=-8, 1-4=-16, 4-30=-80, 30-31=-160, 13-31=-80 13) 7th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf) Vert: 14-28=-8, 1-30=-80, 11-30=-160, 11-31=-96, 13-31=-16 14) 8th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf) Vert: 14-28=-8, 1-30=-80, 9-30=-160, 9-10=-96, 10-31=-160, 13-31=-80





| Job   | Truss  | Truss Type  | Qty   | Ply                    | LOT 0.0017 CAMPBEL                                | L RIDGE   231 ALDEN V                                   | VAY ANGIER, NC                   |
|---|--|---|---|------------------------|---|---|----------------------------------|
| 24-B592-F01   | F115B  | FLOOR   | 2   |                        | 1   | opal)   | # 55564                          |
|   |  |   | Run: 8.630 s Jul 1                            | 12 2024 Pi             | rint: 8.630 s Jul 12 2024 N<br>a gazya/B1-SLI20Si | /iTek Industries, Inc. Sat                              | Dec 21 20:29:42 2024 Page 1      |
| 0-1-8   |  |   | 12.011100210907                               | COL quinto             | 0_q0qxyavb1-00200                                 |   |                                  |
| <u>⊣ ⊢ 1-3-0</u>  | 0-6-3  | 2-0-0   | 0 <u>-5-1</u> 5                               | F                      | 1-2-8 2-0-0                                       | _   | 0-10-4                           |
|   |  | ·   |   |                        |   |   | Scale = 1:38.3                   |
|   |  |   |   |                        |   |   |                                  |
|   |  |   |   |                        |   |   |                                  |
|   |  |   | 4x4 =   |                        |   |   |                                  |
| 1.5x3 =   | 1.5x3  | I   | 3x8 FP= 3x6                                   | =                      |   |   | 3x6 =                            |
| 1   | 2 3 4 T1   | 5 30 6  | 7 8 9   |                        | 10<br>0 T2  | 1131 1  | 2 13                             |
| 29 29 29 C  |  |   |   |                        | W5  |   | We Wi                            |
|   | B1 6   |   |   | <u> </u>               | <b>B</b> 2  |   |                                  |
|   | 00 05  | 04 00 00  |   | 10                     | 40  | 17 10   |                                  |
| 28 27   | 26 25  | 24 23 22<br>1 5x3    3x8 FP-                                  | 21 	 20 	 4x4 - 	 3x6 - 	 3x6                 | - 4v4                  | 18<br>— 15x3 II                                   | 17 10<br>15x3   | 15 14                            |
|   |  |   | 4,44 — 0,00 —                                 |                        | _ 1.0x0 m   | 1.000 11  |                                  |
|   |  |   |   |                        |   |   |                                  |
|   |  |   |   |                        |   |   |                                  |
|   |  |   |   |                        |   |   |                                  |
|   | 6-10   | )-11  | 14<br>13-9-2                                  | 4-11-14<br>?           | 16-2-10 17-4-2                                    |   |                                  |
| <u> </u>  | <u>4-0-0 5-9-3 5-10-11</u><br>2-6-0 1-9-3 0-1-8                | <u>7-10-11 9-3-3 11-9-3</u><br>1-0-0 1-4-8 2-6-0              | <u>3 13-6-2 13-7-10</u><br>1-8-15 0-1-8       | <u>15-0-</u><br>1-2-12 | <u>2 16-4-2 18-4-</u><br>1-2-8 0-1-8 1-0-0        | 2 <u>19-8-10</u> <u>22-</u><br>) <u>1-4-8</u> <u>2-</u> | <u>2-10 23-3-14</u><br>6-0 1-1-4 |
| Plate Offsets (X,Y) [5:0  | 1-0<br>1-1-8.Edge]. [10:0-1-8.Edge]                            | <u>)-0</u><br>. [11:0-1-8.Edae]. [25:0-1-8.Eda                | 0-1-8<br>ae]. [28:Edae.0-1-8]                 | 0-0-4                  | 4 1-0-0   |   |                                  |
|   |  | <u>, [:o : 0,2490], [2010 : 0,24</u>                          |   | (1 )                   | 1/1-41 1/1  |   |                                  |
| TCLL 40.0   | Plate Grip DOL 1.00  | TC 0.60   | Vert(LL) -0.09                                | (ioc)<br>16-17         | >999 480  | MT20  | 244/190                          |
| TCDL 10.0   | Lumber DOL 1.00  | BC 0.75<br>WB 0.48  | Vert(CT) -0.14                                | 16-17                  | >793 360  |   |                                  |
| BCDL 5.0  | Code IRC2021/TPI2014   | Matrix-SH   | 11012(01) 0.03                                | 14                     | n/a n/a   | Weight: 117   | lb FT = 20%F, 11%E               |
| LUMBER-   |  |   | BRACING-                                      |                        |   |   |                                  |
| TOP CHORD 2x4 SP No   | 0.1(flat)  |   | TOP CHORD                                     | Structu                | ral wood sheathing                                | directly applied or 6-                                  | -0-0 oc purlins, except          |
| WEBS 2x4 SP No  | p.3(flat)  |   | BOT CHORD                                     | Rigid c                | eiling directly applie                            | d or 10-0-0 oc bracii                                   | ng, Except:                      |
| REACTIONS. (lb/size)  | 28=564/0-5-6 (min 0-1-8)                                       | 14=431/0-4-8 (min 0-1-8) 20=                                  | =1749/0-4-8 (min 0-1-                         | 6-0-0 o<br>-8)         | c bracing: 20-21,19-                              | -20.  |                                  |
| Max Grav  | 28=574(LC 10), 14=479(LC                                       | 4), 20=1749(LC 1)   |   | 0)                     |   |   |                                  |
| FORCES. (Ib) - Max. Col   | mp./Max. Ten All forces 2                                      | 50 (lb) or less except when sho                               | own.  |                        |   |   |                                  |
| TOP CHORD 28-29=-5<br>4-5=-180  | 71/0, 1-29=-570/0, 13-14=-                                     | 472/0, 1-2=-649/0, 2-3=-1498/0<br>535/0 6-7=-547/0 7-8=-547/0 | ), 3-4=-1803/0,<br>8-9=0/1014                 |                        |   |   |                                  |
| 9-10=-34  | 0/390, 10-11=-1139/0, 11-3                                     | 1=-1062/0, 12-31=-1062/0, 12-                                 | 13=-385/0                                     |                        |   |   |                                  |
| BOT CHORD 26-27=0/<br>20-21=-4  | 1215, 25-26=0/1757, 24-25<br>84/0, 19-20=-1014/0, 18-19        | =0/1803, 23-24=0/1803, 22-23=<br>=0/1139, 17-18=0/1139, 16-17 | =0/1262, 21-22=0/1262<br>=0/1139, 15-16=0/872 | 2,                     |   |   |                                  |
| WEBS 10-18=0/   | 256, 9-20=-806/0, 1-27=0/7                                     | 85, 2-27=-737/0, 2-26=0/368, 3                                | 3-26=-337/0,                                  |                        |   |   |                                  |
| 3-2585<br>9-19=0/1  | 007, 10-19=-1173/0, 12-15                                      | =-635/0, 13-15=0/561  | 0-201105/0,                                   |                        |   |   |                                  |
| <b>NOTES-</b> (6-7)   |  |   |   |                        |   |   |                                  |
| 1) Unbalanced floor live lo   | oads have been considered                                      | for this design.  |   |                        |   |   |                                  |
| 2) All plates are 3x4 M12<br>3) Load case(s) 1, 2, 3, 4                 | 0 unless otherwise indicate<br>, 5, 6, 7, 8, 9, 10, 11, 12, 13 | d.<br>, 14 has/have been modified. B                          | Building designer must                        | review le              | oads to verify that th                            | ey  |                                  |
| are correct for the inter   | nded use of this truss.  | 10.0.0 oc and fastened to ear                                 | r = 100                                       | 121" ¥ 2               | ") naile Stronghack                               | s to  |                                  |
| be attached to walls at   | their outer ends or restraine                                  | ed by other means.  | ch iruss with 5-100 (0.                       | 131 73                 | ) Halls. Strongback                               | 5 10  |                                  |
| <ol> <li>CAUTION, Do not erec</li> <li>Graphical web bracing</li> </ol> | t truss backwards.<br>representation does not de               | pict the size type or the orienta                             | ation of the brace on the                     | e web S                | Symbol only indicate                              | s that  |                                  |
| the member must be b  | raced.   | · · · · · · · · · · · · · · · · · · ·                         | - Destination to be to a                      |                        |   |   | her.                             |
| <ol> <li>Bearing symbols are of<br/>design of the truss to s</li> </ol> | nly graphical representation<br>upport the loads indicated.    | s of a possible bearing condition                             | on. Bearing symbols ar                        | e not co               | nsidered in the struc                             | tural united TH CA                                      | ROUT                             |
| -   | 4  |   |   |                        |   | IN DE OFESE   | PAN A III                        |
| 1) Dead + Floor Live (bala  | anced): Lumber Increase=1                                      | .00, Plate Increase=1.00                                      |   |                        |   | in all  | AL                               |
| Uniform Loads (plf)<br>Vert <sup>.</sup> 14-28=-8                       | 1-30=-80 30-31=-160 13-  | 31=-80  |   |                        |   | SEA   |                                  |
| 2) Dead: Lumber Increase  | e=1.00, Plate Increase=1.00                                    | )   |   |                        |   | 2814  |                                  |
| Uniform Loads (plf)<br>Vert: 14-28=-8                                   | , 1-30=-80, 30-31=-160. 13-                                    | 31=-80  |   |                        |   | THE STAR  | A A                              |
| 3) 1st Dead + Floor Live (  | (unbalanced): Lumber Incre                                     | ase=1.00, Plate Increase=1.00                                 |   |                        |   | ARK   | RAGININ                          |
|   |  |   |   |                        |   | nnn K. N  | ACTUMBUL                         |
| Continued on page 2   |  |   |   |                        |   | 12/2  | 1/2024                           |

| Job         | Truss | Truss Type | Qty         | Ply          | LOT 0.0017 CAMPBELL RIDGE   231 ALD          | EN WAY ANGIER, NC               |
|-------------|-------|------------|-------------|--------------|--|---------------------------------|
| 24-B592-F01 | F115B | FLOOR      | 2           | 1            | Job Reference (optional)                     | # 55564                         |
|             |       | Bue        | 0.620 a Jul | 12 2024 Driv | t: 9 620 a Jul 12 2024 MiTak Industrias Inc. | Set Dec 21 20:20:42 2024 Decc 2 |

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 Millek industries, inc. Sat Dec 21 2029/42 2024 Page 2 ID:UMCU2t6gUxCLqMIKo\_q9qxyaVB1-SU20SnNIiXzJmGmdMB9W49cZKJPDsdn5PGBd8jy6ejt

LOAD CASE(S) Standard Uniform Loads (plf)

- Vert: 14-28=-8, 1-30=-80, 9-30=-160, 9-31=-96, 13-31=-16
- 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 14-28=-8, 1-30=-16, 9-30=-96, 9-31=-160, 13-31=-80 5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf) Vert: 14-28=-8, 1-30=-80, 9-30=-160, 9-31=-96, 13-31=-16
- 6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 14-28=-8, 1-30=-16, 9-30=-96, 9-31=-160, 13-31=-80 7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 14-28=-8, 1-5=-80, 5-30=-16, 9-30=-96, 9-31=-160, 13-31=-80 8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf) Vert: 14-28=-8, 1-4=-16, 4-30=-80, 30-31=-160, 13-31=-80
- 9) 3rd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 14-28=-8, 1-30=-80, 11-30=-160, 11-31=-96, 13-31=-16 10) 4th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 14-28=-8, 1-30=-80, 9-30=-160, 9-10=-96, 10-31=-160, 13-31=-80 11) 5th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf) Vert: 14-28=-8, 1-5=-80, 5-30=-16, 9-30=-96, 9-31=-160, 13-31=-80
- 12) 6th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 14-28=-8, 1-4=-16, 4-30=-80, 30-31=-160, 13-31=-80 13) 7th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf) Vert: 14-28=-8, 1-30=-80, 11-30=-160, 11-31=-96, 13-31=-16
- 14) 8th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
  - Vert: 14-28=-8, 1-30=-80, 9-30=-160, 9-10=-96, 10-31=-160, 13-31=-80



| 24-682-201         F15C         FLOR         1 <th1< th="">         1         1</th1<>   |
|--|
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $   |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$   |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $   |
| 1.5x3 II   |
| 153 = 1.53 = 1   |
| 1.53 =  |
| 15:31       3:87       15:33       1       3:06       3:00  |
| 1.5.3 =       1.5.3          3.8 PP = 3.6 =       3.x10 =         2       3.4 11 5       6       7       8       9       10       12       13       14         20       20       2       2       2       2       2       2       2       2       10       12       13       14  |
| 1       2       3       4       1       5       6       7       8       9       10       T2       11       12       13       14         1       1       1       1       12       13       14       16       12       13       14         1       1       1       1       1       1       12       13       14       16       15       15       15       15       14       16       15       15       15       15       15       15       15       15       15       15       15       15       15       15       15       15       15       16       15       15       15       15       15       15       15       15       15       15       15       15       15       15       15       15       15       15       15       14       16       12       16       16       16       16       16       16       17       16       15       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16 <td< td=""></td<>   |
| 30       30       30       10 <td< td=""></td<>  |
| Statistic         Statistic <t< td=""></t<>  |
| 29       28       27       26       25       24       23       22       21       20       19       18       17       16       15         1.5x3          3x8 FP=       3x6 =       1.5x3          1.5x3          6x6          3x8 =         14-11-14       16-42       15x3          1.5x3          1.5x3          6x6            3x8 =         14-11-14       16-42       11-12       10-0       1-1-12  |
| $1.53 \parallel 3x8 FP= 3x6 = 1.5x3 \parallel 1.5x3 \parallel 1.5x3 \parallel 6x6 \parallel 3x8 = 1.5x3 \parallel 1.5x3 \parallel 1.5x3 \parallel 6x6 \parallel 3x8 = 1.5x3 \parallel 1.5x3 \parallel$ |
| 3x8 =         1 - 5-10-11 - 6-10-11,7-10-11 - 137-10 - 1342 - 162-10 - 117-2 + 162-10 - 117-2 + 162-10 - 117-2 + 162-10 - 117-2 + 162-10 - 117-2 + 162-10 - 117-2 + 162-10 - 117-2 + 162-10 - 117-2 + 162-10 - 117-2 + 162-10 - 117-2 + 162-10 - 117-2 + 162-10 - 117-2 + 120-1 - 120  |
| 5-10-11         15-10-11         13-7-10         13-9-2         16-2-10         17-42-2         18-4-2         23-3-14           -         5-10-11         1-0-0         5-8-15         0'H-91-2-12         1-2-0         1-0-0         4-11-12         1-0-0           Plate Offsets (X,Y)-         [5:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [14:0-1-8,Edge], [14:0-4-8,0-1-8], [26:0-1-8, Edge], [29:Edge,0-1-8]         1-0-0         4-11-12         1-0-0           LOADING (psf)         SPACING-         1-7-3         CSI.         DEFL         in (loc) //defl         L/d         PLATES         GRIP           TCDL         10.0         Lumber DOL         1.00         BC 0.61         Vert(LL)         -0.02         2244/190           BCDL         5.0         Code IRC2021/TPI2014         Matrix-SH         DEFL         in (loc) //defl         MT20         244/190           LUMBER-         Code IRC2021/TPI2014         Matrix-SH         DCP CHORD         Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.         BOT CHORD         Structural wood sheathing directly applied or 6-0-0 oc bracing.           REACTIONS.         (Ib/size) 29=547/10-5-6 (min. 0-1-8), 15=355/0-3-8 (min. 0-1-8), 21=1111/0-4-8 (min. 0-1-8)         BOT CHORD         Rigid ceiling directly applied or 6-0-0 oc bracing.           REACTIONS.  |
| 5-10-11         6-10-11,7-10-11         13-7-10         13-7-10         13-9-2         16-2-10         17-4-2         18-4-2         23-3-14           Flate Offsets (X,Y)-         5-10-11         1-0-0         1-0-0         5-8-15         0-1/81-2-12         1-6-0         4-11-12         1-0-0         1-0-0         1-0-0         1-0-0         1-0-0         1-0-0         1-0-0         1-0-0         1-0-0         1-0-0         1-0-0         1-0-0         1-0-0         1-0-0         1-0-0         1-0-0         1-0-0         1-0-0 <t< td=""></t<>   |
| Since         Sector         Sector </td   |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $  |
| End         Figure 1          Figure 1 <th< td=""></th<>   |
| Plate Offsets (X,Y)         [5:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [14:0-1-8,Edge], [14:0-4-8,0-1-8], [26:0-1-8,Edge], [29:Edge,0-1-8]           LOADING (psf)<br>TCLL 40.0<br>Plate Grip DOL 1.00         SPACING-<br>1.00         1-7-3<br>Plate Grip DOL 1.00         CSI.         DEFL.         in         (loc)         //deft         L/d         PLATES         GRIP<br>MT20           CDL 10.0<br>BCLL 0.0<br>BCLL 0.0<br>BCDL 5.0         Lumber DOL 1.00         BC 0.61         Vert(CT) -0.12 26-27         >999         480         MT20         244/190           LUMBER-<br>TOP CHORD 5.0         Code IRC2021/TPI2014         Matrix-SH         DEFL.         in         (loc)         //deft         L/d         Weight: 120 lb         FT = 20%F, 11%E           LUMBER-<br>TOP CHORD 2x4 SP No.1(flat)<br>BOT CHORD 2x4 SP No.3(flat)         Code IRC2021/TPI2014         Matrix-SH         BRACING-<br>TOP CHORD         Structural wood sheathing directly applied or 6-0-0 oc purlins, except<br>end verticals.           WEBS         2x4 SP No.3(flat)         Structural void sheathing directly applied or 6-0-0 oc bracing.         BT CHORD         Rigid ceiling directly applied or 6-0-0 oc bracing.           REACTIONS.         (lb/size) 29=547/0-5-6 (min. 0-1-8), 15=355/0-3-8 (min. 0-1-8), 21=1111/0-4-8 (min. 0-1-8)         Matrix-SH         BT CHORD         Rigid ceiling directly applied or 6-0-0 oc bracing.           FORCES.         (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.<  |
| LOADING (psf)<br>TCLL 40.0<br>TCDL 10.0<br>BCL 0.0<br>BCDL 5.0         SPACING-<br>Plate Grip DOL 1.00<br>Lumber DOL 1.00<br>Rep Stress Incr YES<br>Code IRC2021/TPI2014         CSI.<br>TC 0.43<br>BC 0.61<br>WB 0.36<br>Matrix-SH         DEFL. in (loc) 1/defl L/d<br>Vert(LL) -0.09 26-27 >999 480<br>Vert(CT) -0.12 26-27 >999 360<br>Horz(CT) 0.03 15 n/a n/a         PLATES<br>MT20         GRIP<br>MT20           LUMBER-<br>TOP CHORD 5.0         Code IRC2021/TPI2014         WB 0.36<br>Matrix-SH         DEFL. in (loc) 1/defl L/d<br>Vert(CT) -0.12 26-27 >999 360<br>Horz(CT) 0.03 15 n/a n/a         Weight: 120 lb         FT = 20%F, 11%E           LUMBER-<br>TOP CHORD 2x4 SP No.1(flat)<br>BOT CHORD 2x4 SP No.1(flat)<br>WEBS         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.           REACTIONS.         (lb/size) 29=547/0-5-6 (min. 0-1-8), 15=355/0-3-8 (min. 0-1-8), 21=1111/0-4-8 (min. 0-1-8)<br>Max Grav 29=558(LC 10), 15=403(LC 4), 21=11111(LC 1)         BOT CHORD<br>Rigid ceiling directly applied or 6-0-0 oc bracing.           FORCES.         (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.<br>TOP CHORD 29-30=-553/0, 1-30=-552/0, 14-15=-398/0, 1-2=-2626/0, 2-3=-1438/0, 3-4=-1693/0,<br>4-5=-1693/0, 5-6=-1386/0, 6-7=-544/0, 7-8=-544/0, 8-9=0/692, 9-10=-346/378,<br>10-11==819/114, 11-12=-792/0, 12-13=-276/0, 13-14=-279/0  |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |
| BCLL<br>BCDL         0.0<br>5.0         Rep Stress Incr         YES<br>Code IRC2021/TPI2014         WB         0.36<br>Matrix-SH         Horz(CT)         0.03         15         n/a         Weight: 120 lb         FT = 20%F, 11%E           LUMBER-<br>TOP CHORD         2x4 SP No.1(flat)<br>BOT CHORD         2x4 SP No.1(flat)         TOP CHORD         Structural wood sheathing directly applied or 6-0-0 oc purlins, except<br>end verticals.         BRACING-<br>TOP CHORD           WEBS         2x4 SP No.3(flat)         BOT CHORD         Structural wood sheathing directly applied or 6-0-0 oc bracing.           REACTIONS.         (Ib/size)         29=547/0-5-6 (min. 0-1-8), 15=355/0-3-8 (min. 0-1-8), 21=1111/0-4-8 (min. 0-1-8)         BOT CHORD         Structural wood sheathing directly applied or 6-0-0 oc bracing.           FORCES.         (Ib) - Max. Comp./Max. Ten All forces 250 (Ib) or less except when shown.         TOP CHORD         29-30=-553/0, 1-30=-552/0, 14-15=-398/0, 1-2=-626/0, 2-3=-1438/0, 3-4=-1693/0,<br>4-5=-1693/0, 5-6=-1386/0, 6-7=-544/0, 7-8=-544/0, 8-9=0/692, 9-10=-346/378,<br>10-11=-819/114, 11-12=-792/0, 12-13=-276/0, 13-14=-279/0         Structural wood sheathing directly applied or 6-0-0 oc bracing.   |
| BCDL         S.0         Code RC2021/1P12014         Mainx-Sh         Weight. 120 ib         PT = 20%P, 11%E           LUMBER-<br>TOP CHORD 2x4 SP No.1(flat)<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.         BOT CHORD         Structural wood sheathing directly applied or 6-0-0 oc purlins, except<br>end verticals.           WEBS         2x4 SP No.3(flat)         BOT CHORD         BOT CHORD         Rigid ceiling directly applied or 6-0-0 oc bracing.           REACTIONS.         (Ib/size)         29=547/0-5-6 (min. 0-1-8), 15=355/0-3-8 (min. 0-1-8), 21=1111/0-4-8 (min. 0-1-8)<br>Max Grav 29=558(LC 10), 15=403(LC 4), 21=11111(LC 1)         BOT CHORD         Rigid ceiling directly applied or 6-0-0 oc bracing.           FORCES.         (Ib) - Max. Comp./Max. Ten All forces 250 (Ib) or less except when shown.         Comp./Max. Ten All forces 250 (Ib) or less except when shown.           TOP CHORD         29-30=-553/0, 1-30=-552/0, 14-15=-398/0, 1-2=-626/0, 2-3=-1438/0, 3-4=-1693/0,<br>4-5=-1693/0, 5-6=-1386/0, 6-7=-544/0, 7-8=-544/0, 8-9=0/692, 9-10=-346/378,<br>10-11=-819/114, 11-12=-792/0, 12-13=-276/0, 13-14=-279/0  |
| LUMBER-<br>TOP CHORD 2x4 SP No.1(flat)         BRACING-<br>TOP CHORD 2x4 SP No.1(flat)           BOT CHORD 2x4 SP No.1(flat)         TOP CHORD<br>2x4 SP No.3(flat)         Structural wood sheathing directly applied or 6-0-0 oc purlins, except<br>end verticals.           WEBS         2x4 SP No.3(flat)         BOT CHORD         Rigid ceiling directly applied or 6-0-0 oc bracing.           REACTIONS.         (Ib/size) 29=547/0-5-6 (min. 0-1-8), 15=355/0-3-8 (min. 0-1-8), 21=1111/0-4-8 (min. 0-1-8)<br>Max Grav 29=558(LC 10), 15=403(LC 4), 21=1111(LC 1)         Rigid ceiling directly applied or 6-0-0 oc bracing.           FORCES.         (Ib) - Max. Comp./Max. Ten All forces 250 (Ib) or less except when shown.<br>TOP CHORD         29-30=-553/0, 1-30=-552/0, 14-15=-398/0, 1-2=-626/0, 2-3=-1438/0, 3-4=-1693/0,<br>4-5=-1693/0, 5-6=-1386/0, 6-7=-544/0, 7-8=-544/0, 8-9=0/692, 9-10=-346/378,<br>10-11=-819/114, 11-12=-792/0, 12-13=-276/0, 13-14=-279/0  |
| BOT CHORD 2x4 SP No.1(flat)       BOT CHORD 2x4 SP No.3(flat)       BOT CHORD and verticals.         WEBS       2x4 SP No.3(flat)       BOT CHORD 2x4 SP No.3(flat)       Rigid ceiling directly applied or 6-0-0 oc bracing.         REACTIONS.       (lb/size) 29=547/0-5-6 (min. 0-1-8), 15=355/0-3-8 (min. 0-1-8), 21=1111/0-4-8 (min. 0-1-8)       Rigid ceiling directly applied or 6-0-0 oc bracing.         FORCES.       (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.       TOP CHORD       29-30=-553/0, 1-30=-552/0, 14-15=-398/0, 1-2=-626/0, 2-3=-1438/0, 3-4=-1693/0, 4-5=-1693/0, 5-6=-1386/0, 6-7=-544/0, 7-8=-544/0, 8-9=0/692, 9-10=-346/378, 10-11=-819/114, 11-12=-792/0, 12-13=-276/0, 13-14=-279/0  |
| WEBS       2x4 SP No.3 (fiat)       BOT CHORD       Rigid ceiling directly applied or 6-0-0 oc bracing.         REACTIONS.       (lb/size)       29=547/0-5-6 (min. 0-1-8), 15=355/0-3-8 (min. 0-1-8), 21=1111/0-4-8 (min. 0-1-8)       Max Grav 29=558(LC 10), 15=403(LC 4), 21=1111(LC 1)         FORCES.       (lb)       - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       29-30=-553/0, 1-30=-552/0, 14-15=-398/0, 1-2=-626/0, 2-3=-1438/0, 3-4=-1693/0, 4-5=-1693/0, 5-6=-1386/0, 6-7=-544/0, 7-8=-544/0, 8-9=0/692, 9-10=-346/378, 10-11=-819/114, 11-12=-792/0, 12-13=-276/0, 13-14=-279/0  |
| REACTIONS.       (Ib/size)       29=547/0-5-6 (min. 0-1-8), 15=355/0-3-8 (min. 0-1-8), 21=1111/0-4-8 (min. 0-1-8)         Max Grav 29=558(LC 10), 15=403(LC 4), 21=1111(LC 1)         FORCES.       (Ib) - Max. Comp./Max. Ten All forces 250 (Ib) or less except when shown.         TOP CHORD       29-30=-553/0, 1-30=-552/0, 14-15=-398/0, 1-2=-626/0, 2-3=-1438/0, 3-4=-1693/0, 4-5=-1693/0, 5-6=-1386/0, 6-7=-544/0, 7-8=-544/0, 8-9=0/692, 9-10=-346/378, 10-11=-819/114, 11-12=-792/0, 12-13=-276/0, 13-14=-279/0  |
| <b>FORCES.</b> (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.<br>TOP CHORD 29-30=-553/0, 1-30=-552/0, 14-15=-398/0, 1-2=-626/0, 2-3=-1438/0, 3-4=-1693/0,<br>4-5=-1693/0, 5-6=-1386/0, 6-7=-544/0, 7-8=-544/0, 8-9=0/692, 9-10=-346/378,<br>10-11=-819/114, 11-12=-792/0, 12-13=-276/0, 13-14=-279/0  |
| TOP CHORD 29-30=-553/0, 1-30=-552/0, 14-15=-398/0, 1-2=-626/0, 2-3=-1438/0, 3-4=-1693/0,<br>4-5=-1693/0, 5-6=-1386/0, 6-7=-544/0, 7-8=-544/0, 8-9=0/692, 9-10=-346/378,<br>10-11=-819/114, 11-12=-792/0, 12-13=-276/0, 13-14=-279/0  |
| 10-11=-819/114, 11-12=.792/0, 12-13=-276/0, 13-14=-279/0   |
|  |
| BOT CHORD 27-28=0/1173, 26-27=0/1671, 25-26=0/1693, 24-25=0/1693, 23-24=0/1086, 22-23=0/1086, 21-22=-321/7, 20-21=-692/0, 19-20=-114/819, 18-19=-114/819, 17-18=-114/819,  |
| 16-17=0/674<br>WEBS 9-21=-449/0 1-28=0/757 2-28=-712/0 2-27=0/344 3-27=-304/0 3-26=-133/263  |
| 5-24=-460/0, 6-24=0/435, 6-22=-742/0, 8-22=0/766, 8-21=-792/0, 9-20=0/610,   |
| 10-20=-753/0, 12-16=-508/0, 14-16=0/439  |
| NOTES- (5-6)<br>1) Unbalanced floor live loads have been considered for this design  |
| 2) All plates are 3x4 MT20 unless otherwise indicated.   |
| 3) 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.  |
| 4) CAUTION, Do not erect truss backwards.  |
| 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   |
| ACAD CARE THE CARE WITH CARE WITH CARE   |
| LOAD CASE(S) Standard  |
|  |
| SEAL SEAL  |
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|  |
| 28147  |
| 28147  |

| Determine       Prior  | Job  | Truss   | Truss Type   | Qty                                   | Ply            | LOT 0.0017 CAMPBEL                         | L RIDGE   231 ALDEN                    | WAY ANGIER, NC                  |
|--|--|---|--|---------------------------------------|----------------|--|--|---------------------------------|
| End         Part Set 1         Part Set 1 <td>24-B592-F01</td> <td>F115D</td> <td>FLOOR</td> <td>4</td> <td>1</td> <td>1</td> <td></td> <td># 55564</td>   | 24-B592-F01  | F115D   | FLOOR  | 4                                     | 1              | 1  |  | # 55564                         |
| 014       0  |  |   |  | Run: 8.630 s Jul                      | 12 2024 Pri    | rint: 8.630 s Jul 12 2024 M                | ITek Industries, Inc. Sa               | t Dec 21 20:29:43 2024 Page 1   |
| 1.12-1     1.23     1.24     2.02     0.13     1.24     2.02     0.14       1.13-1 </td <td>0-1-8</td> <td></td> <td></td> <td>12.010021090</td> <td>JACEquin</td> <td></td> <td>J/OWIGSAOQEPWVg</td> <td>idinisinjiinis4 i Edwabnisyoeja</td>  | 0-1-8  |   |  | 12.010021090                          | JACEquin       |  | J/OWIGSAOQEPWVg                        | idinisinjiinis4 i Edwabnisyoeja |
| 150-       150-       150-       150-       100-   | <u>                                     </u>                           | 0-6-2   | 2-0-0  | 0-6-0                                 | F              | 1-2-8 2-0-0                                |  |                                 |
| 1501       1501       100 FPC and       100  |  |   |  |                                       |                |  |  | Scale = 1:38.3                  |
| 150 <sup>-1</sup> 100 <sup>-1</sup>  |  |   |  |                                       |                |  |  |                                 |
| 154 + 154  |  |   |  |                                       |                |  |  |                                 |
| 156.1       156.1       34 m       5       6       7       6       9       0       0       0       1       10   |  |   |  |                                       |                |  |  |                                 |
| 1       2       3       4       3       5       6       7       8       9       10       p1       12       13       14         1       2       3       4       3       2       1       2       10       18       17       10       15       10       15       15       10       18       17       10       15       15       15       15       15       10       15       10       15       10       15       15       10       15       10       15       10       10       10       10       10       10       10       15       10       15       10       15       10 <t< td=""><td>1.5x3 =</td><td>1.5x3</td><td>II</td><td>3x8 FP= 3x6</td><td>=</td><td></td><td>4x4 = 3x6 =</td><td>4x4 =</td></t<>  | 1.5x3 =  | 1.5x3   | II   | 3x8 FP= 3x6                           | =              |  | 4x4 = 3x6 =                            | 4x4 =                           |
| Image: Problem (m)         Product (m) <td>1</td> <td></td> <td>5 6</td> <td></td> <td></td> <td>10<br/>T2</td> <td>11 12</td> <td>13 14</td>  | 1  |   | 5 6  |                                       |                | 10<br>T2                                   | 11 12                                  | 13 14                           |
| Image: Second   | <sup>2</sup> √ 30 <sub>B</sub>   | W3  |  |                                       |                | W5   | We                                     |                                 |
| Bit Solution         Control   |  | B1  |  |                                       |                | <b>B</b> 2                                 |  |                                 |
| 15.3 II     3d PP     3d = 4d = 15d II     dd = 4d = 3d = 15d II     3d = 4d = 3d = 15d II       1.5.3 II     3d PP     22.40 (100000000000000000000000000000000000  | 29 28  | 27 26   | 25 24 23   | 22 21                                 | 20             | 19   | 18 17 16                               | 3 15                            |
| 19:21         19:21:11         19:21:11         19:21:11         19:21:11         19:21:11         19:21:11         19:21:11         19:21:11         19:21:11         19:21:11         10:21:11  |  |   | 1.5x3    3x8 FP=   | = 3x6 =                               | 4x4            | = 1.5x3                                    | 4x6 = 4x6                              | 4 = 3x6 =                       |
| Bit 12         162.01         164.01<  |  |   |  |                                       |                | 1  | .5x3                                   |                                 |
| Plate Offsets (X,Y)         ISO 10         Field 01         Field 01 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>   |  |   |  |                                       |                |  |  |                                 |
| Bit 10:10         10:10/10         10:2:10         10:1:10         10:2:10   |  |   |  |                                       |                |  |  |                                 |
| 14-112         14-12         14-12         14-12         14-12         233-14           Plate Offsets (XY)- [50-18.Edge], [100-18.Edge], [100-18.Edge], [250-18.Edge], [200-18.Edge], [200-1   |  |   |  |                                       |                |  | 19-2-10                                |                                 |
| Image: Second   |  | 5-10-10 .6  | 10-10.7-10-10. 13-   | -7-10 13-9-2                          | 4-11-2 1       | 16-2-10 17-4-2 18-4<br>14 16-4-2 1.7-9-6 1 | 1-12-10<br>1-12-10-2<br>8-5-10, 19-4-2 | 23-3-14                         |
| Pipte Offsets (XY)-         [5:0-1-8.Edge], [10:0-1-8.Edge], [10:0-1-8.Edge], [26:0-1-8.Edge], [28:6de, 0-1-8]           LOADING (jeft)         Plate Grap DOL         100         TC3         CSL         DEFL         in (loc)         Vietal         Lid           LOADING (jeft)         Plate Grap DOL         100         TC3         CSL         DEFL         in (loc)         Vietal         Lid         PLATES         GRIP           Mitto         Mainton         TC3         CSL         DEFL         in (loc)         Vietal         Lid         Mitton         Mitton </td <td></td> <td>5-10-10</td> <td>-0-0 1-0-0 5-</td> <td>-9-0 0-1-8</td> <td>1-2-0</td> <td>1-2-120-1-8 0-5-4<br/>2 1-0-0 0-6-</td> <td>0-1-80-4-8<br/>120-4-80-1-8</td> <td>3-11-12</td>   |  | 5-10-10   | -0-0 1-0-0 5-  | -9-0 0-1-8                            | 1-2-0          | 1-2-120-1-8 0-5-4<br>2 1-0-0 0-6-          | 0-1-80-4-8<br>120-4-80-1-8             | 3-11-12                         |
| LOADING (ps)<br>TCUL, 10:0<br>TCUL, 10 | Plate Offsets (X,Y)  | [5:0-1-8,Edge], [10:0-1-8,Edg                                 | e], [11:0-1-8,Edge], [26:0-1-8,Ed                                | dge], [29:Edge,0-1-8]                 |                |  |  |                                 |
| TCLL         40.0         Plate Grp DOL         1.00         TC         0.94         Vert(C1)         0.00         MT20         244/190           BCLL         0.0         Lumber DOL         1.00         BCL         0.00         Wert(C1)         0.023 17.18         >489 380         MT20         244/190           BCLL         0.0         Code IRC2021/TPI2014         Matrix-Sit         Wert(C1)         0.04 15         n/a         n/a         Weight: 120 lb         FT = 20%F, 11%E           LUMBER.         TOP CHORD 2x4 SP No.1(flat)         Except         TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc prutins, except           BOT CHORD 2x4 SP No.3(flat)         BOT CHORD 2x4 SP No.3(flat)         BOT CHORD 2x4 SP No.3(flat)         BOT CHORD R         Structural wood sheathing directly applied or 10-0-0 oc bracing; 28-21         2-20 oc bracing;   | LOADING (psf)  | SPACING- 1-7-   | 3 <b>CSI</b> .   | DEFL. in                              | (loc)          | l/defl L/d                                 | PLATES                                 | GRIP                            |
| BCLL         0.0         Rep Stress Incr YES         WB 0.51         Hor2(CT)         0.04         15         n/a         Weight: 120 Ib         FT = 20%F, 11%E           LUMBER-<br>TOP CHORD 2x4 SP No.1(flat)<br>BC0 CHORD 2x571<br>2x4 SP No.3(flat)         BRACING-<br>TOP CHORD Rigid cells applied or 10-0-0 cc bracing. Except<br>end verticals:<br>2x4 SP No.3(flat)         Except<br>BC0 CHORD 2x571<br>2x4 SP No.3(flat)         Except<br>End verticals:<br>2x4 SP No.   | TCLL 40.0<br>TCDL 10.0   | Plate Grip DOL 1.0<br>Lumber DOL 1.0                          | 0 TC 0.94<br>0 BC 0.92   | Vert(LL) -0.09<br>Vert(CT) -0.23      | 26-27<br>17-18 | >999 480<br>>493 360                       | MT20                                   | 244/190                         |
| Build         Store         Code (NC2021) (P12014         Mathwork         PRACING-<br>TOP CHORD 2x4 SP No.1(flat)<br>BOT CHORD 2x4 SP No.1(flat)<br>BOT CHORD 2x4 SP No.1(flat)         Processor   | BCLL 0.0   | Rep Stress Incr YE  | S WB 0.51  | Horz(CT) 0.04                         | 15             | n/a n/a                                    | Waight: 120                            | ub ET = 200/E 110/E             |
| LUMBER-<br>TOP CHORD 2x4 SP No.1(flat) "Except"<br>B0T CHORD R Bigle celling directly applied or 12-2-0 oc purlins, except<br>end verticals.<br>B0T CHORD R Bigle celling directly applied or 10-0-0 oc bracing, Except:<br>6-0-0 oc bracing; 20-21<br>2x-20 oc bracing; 20-21<br>2x-20 oc bracing; 18-19.<br>REACTIONS. (blsize) 29=571/0.5-6 (min. 0-1-8), 21=1315/0-4-8 (min. 0-1-8), 15=778/0-4-8 (min. 0-1-8)<br>Max Grav 29=551(LC 10), 21=1315(LC 1), 15=829(LC 4)<br>FORCES. (b) - Max. Comp /Max. Ten All forces 250 (b) or less except when shown.<br>TOP CHORD 29-305-78/0, 1-20=577/0, 1-20=507/0, 2-3=-1522/0, 3-4=-1848/0, 4-5=1848/0,<br>56-1592/0, 57=607/0, 7-30=-253205, 9-10=98800, 10-11=1334/0,<br>11.2=2-30100, 12:13=-1607/0<br>EOT CHORD 20-2578/0, 1-20=2-01/1934, 18-19=0/1934, 16-17=0/2510,<br>15-16=0035<br>21.2=20-0710, 12:2=0-0411, 11:8=-506(0, 2-4)=-0207, 2-28=-747/0,<br>2-22=07078, 3-27=5270, 3-26=-67/33, 5-24=-3780, 6-24=-0708, 3-28=-747/0,<br>2-22=0710, 8-22=-6210, 9-20=0/1011, 10-20=-1369/0, 11-17=0/1073, 12-16=-1041/0,<br>13-16=0969, 13-15=-1226/0<br>NOTES- (5-6)<br>1) Unbalanced for live loads have been considered for this design.<br>2) All plates are 3/4 MT20 unless otherwise indicated.<br>3) Recommend 2x6 storogbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131* X 3*) nails. Strongbacks to<br>be attached to walls at their outer ends or restrained by other means.<br>4) CAUTION, Do not erect truss backwards.<br>5) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that<br>the member must be braced.<br>5) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that<br>the member must be braced.<br>5) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that<br>the member must be braced.<br>5) G  | BCDL 5.0   |   |  |                                       |                |  | weight. 120                            | ID FI - 20%F, 11%E              |
| BOT CHORD 2x4 SP No.1[flat] 'Except'<br>B2: 2x4 SP SG(flat)<br>BCT CHORD Rigid celling directly applied or 10-0-0 co bracing. Except:<br>6-0-0 co bracing: 20-21<br>2-20 co bracing: 20-21<br>2-20 co bracing: 18-19.<br>REACTONS. (bbixe) 29=5710.5-6 (min. 0-1-8), 21=1315(0-4-8 (min. 0-1-8), 15=778/0-4-8 (min. 0-1-8)<br>Max Grav29=5610(C-10), 21=1315(IC-1), 15=229(IC-4)<br>FORCES. (b) - Max. Comp./Max. Ten All forces 250 (b) or less except when shown.<br>TOP CHORD 29-30–578/0, 1-30–577/0, 1-28–588/0, 2-3=-1522/0, 3-4=-1848/0, 45=-1848/0,<br>56=-1592/0, 6-7=807/0, 7-9=2573/3, 9-10–986/0, 10-11=-1934/0,<br>11-12–25100, 12-13=-1680/0<br>BOT CHORD 27-28-07123, 22-22=70178, 25-256-011848, 24-25=0/1648, 23-24=011323, 22-23=0/1323,<br>21-22-801/12, 22-21=336/22, 19-20=0/1934, 18-19=0/1934, 17-18=01034, 16-17=02510,<br>15-16=0933<br>WEBS 12-17–482/0, 10-19=0/460, 11-18=-506/0, 9-21=-592/0, 1-28=0796, 2-28=-747/0,<br>22-27-1037, 32-15=-1360/0, 3-21=-592/0, 1-28=0796, 5-228=-747/0,<br>22-27-1037, 32-15=-1226/0<br>WEBS 21-27-1037, 32-15=-1226/0<br>WEBS 21-27-1037, 32-15=-1226/0<br>NOTES= (5-6)<br>10 Unbalanced foor live loads have been considered for this design.<br>2) All plates are 3x4 MT20 unless otherwise indicated.<br>3) Recommend 2x6 storogbacks, on edge, speed at 10-0-0 co and fastened to each truss with 3-10d (0.131*X 3*) nails. Strongbacks to<br>be attached to walis at their outler ends or restrained by other means.<br>4) CAUTICN, No not rest truss backwards.<br>5) Graphical web bracing representation dos not depict the size, type or the orientation of the brace on the web. Symbol only indicates that<br>the member must be braced.<br>5) Graphical web bracing representation dos not depict the size, type or the orientation of the brace on the web. Symbol only indicates that<br>the member must be braced.<br>5) Graphical web bracing representation dos not depict the size, type or the orientation of the brace on the web. Symbol only indicates that<br>the member must be braced.<br>5) Graphical web brace indicated.<br>5) Graphical web brace representation dos not depict the size, type or the orientation of the brace on   | LUMBER-<br>TOP CHORD 2x4 SP  | No.1(flat)  |  | BRACING-<br>TOP CHORD                 | Structu        | ral wood sheathing o                       | directly applied or 2                  | 2-2-0 oc purlins, except        |
| D2_24 SP K03(1k1)       D1 CHOM SP K04(14)       6-0-0 oc bracing: 2021         S2-4 SP K03(1k1)       6-0-0 oc bracing: 2021       22-0 oc bracing: 2021         REACTIONS.       (Ib/size) 29=571(0-5-6 (min. 0-1-8), 21=1315(0-4-8 (min. 0-1-8), 15=778/0-4-8 (min. 0-1-8)       Max Grav29=561(1-0), 21=315(0-10), 12=-65600, 23=-1522(0, 34=-1848/0, 4-5=-1848/0, 5=-6-1592(0, 6-7=-3070), 7-8=-907(0, 2-3=-1522(0, 3-4=-1848/0, 4-5=-1848/0, 5=-6-1592(0, 6-7=-3070), 7-8=-907(0, 2-3=-1522(0, 3-4=-1848/0, 4-5=-1848/0, 5=-6-10)         POP CHORD       29-30=-5713(0, 1-30=-577(0), 1-22=-65600, 2-3=-1522(0, 3-4=-1848/0, 4-5=-1848/0, 5=-6-10)       Secondary (1-2-2-510(1-2-2-5660), 2-3=-1522(0, 3-4=-1848/0, 4-5=-1848/0, 5=-10)         BOT CHORD       27-38=0/10, 2-13=-51600, 9-29=-252/33, 9-10=-9880, 10-11=-1934/0, 11-12=-2710(1, 2-13=-1620, 10-2)       Secondary (1-2-2-510, 12-2)         BOT CHORD       27-38=0/1232, 26-27-01792, 22-28=0/184, 24-25=0/184, 2-28=-0/786, 2-28=-7470, 2-27=0/1033, 5-24=-3790, 6-24=-3930, 6-24=-70130, 8-22=-7010, 8-22=-70170, 8-22=-70170, 8-22=-0710, 8-22=-70170, 8-22=-0710, 8-22=-0701, 8-20=-070, 8-20=-070, 8-20=-070, 8   | BOT CHORD 2x4 SP   | No.1(flat) *Except*   |  |                                       | end ver        | rticals.                                   | d or 10,0,0 oo broo                    | ing Except:                     |
| 22-20 dc bracing: 18-19.<br>22-20 dc braces 250 (lb) or less except when show.<br>TOP CHORD 23-30-570, 01-22-6580, 02-30-15220, 34-15480, 45-18480,<br>5-815920, 6-7-8070, 7-8-8070, 8-9-252/36, 9-10-9880, 10-11-19340,<br>5-815920, 6-7-8070, 7-8-8070, 8-9-252/36, 9-10-9880, 10-11-19340,<br>5-815920, 01-23-26-270/1792, 25-26-0/148, 24-25-0/148, 23-24-0/1323, 22-23-0/123,<br>21-22-0370, 12-21-3210, 92-10-3802, 14-29-0/1934, 16-19-01934, 16-17-002510,<br>15-16-00955<br>WEBS 12-17-4620, 10-19-0/460, 11-18-5060, 9-21-5920, 1-28-0/796, 2-287010,<br>8-22-0710, 8-27-8210, 9-20-0/1011, 10-2013690, 11-17-0/1073, 12-161041/0,<br>13-16-00969, 13-151226/0<br>NOTES- (5-6)<br>1) Unbalanced floor live loads have been considered for this design.<br>2) All plates are 3x4 MT20 unless otherwise indicated.<br>3) Recommend 2x5 storogbacks, on edge, spaced at 10-0-0 cc and fastened to each truss with 3-10d (0.131* X 3") nails. Strongbacks to<br>be attached to walls at their outer ends or restrained by other means.<br>4) CAUTION, Do not erect truss backwards.<br>5) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that<br>the member must be braced.<br>6) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural<br>40 Unfom Loads (ptf)<br>Vert: 15-29-8, 1-14-80<br>Concentrated Loads (b)<br>Vert: 12=-640<br>Vert: 12=-640  | WEBS 2x4 SP  | PNo.3(flat)   |  | BOTCHORD                              | 6-0-0 o        | c bracing: 20-21                           |  | ing, Except.                    |
| Max Grav 29=581(LC 10), 21=1315(LC 1), 15=829(LC 4)<br>FORCES. (lb) - Max. Comp. Max. Ten All forces 250 (lb) or less except when shown.<br>TOP CHORD 29:30=-5780(1-320=5771), 12=-65800, 02=3=-15200, 33=-15200, 34=-18480, 45=-18480, 65=-18480, 05=-15820, 67=-6970, 7==-6800, 11=12=2501, 11=22=2501(232, 26=27=0)(192, 25=60)(1848, 24=25=0)(1848, 24=25=0)(1848, 24=25=0)(1848, 24=25=0)(1848, 24=25=0)(1848, 24=25=0)(1848, 24=25=0)(1848, 24=25=0)(1848, 24=25=0)(1848, 24=25=0)(1848, 24=25=0)(1848, 24=25=0)(1848, 24=25=0)(1848, 24=25=0)(1848, 24=25=0)(1934, 16=17=0)(2510, 15=16=0)(935, 11=18=-5060, 9=21=-5920, 1=28=0)(766, 228=-74700, 6=24=-7400, 6=26=-74700  | REACTIONS. (Ib/size  | e) 29=571/0-5-6 (min. 0-1-8                                   | . 21=1315/0-4-8 (min. 0-1-8). <sup>2</sup>                       | 15=778/0-4-8 (min. 0-1-               | 2-2-0 o<br>-8) | c bracing: 18-19.                          |  |                                 |
| FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.<br>TOP CHORD 29-30=-5780, 1-30=-5770, 1-20=-6580, 2-3=-15220, 3-4=-15480, 4-5=-18480,<br>5-6=-15920, 6-7=-8070, 7-8=-8070, 8-92-252/33, 9-10=-9880, 10-11=-19340,<br>11-12=-25100, 12-13=-16800 BOT CHORD 27-28=0/1232, 26-27=0/1934, 18-19=0/1934, 17-18=0/1934, 16-17=0/2510,<br>15-18=0/935 WEBS 12-17=-4620, 10-19=0/460, 11-18=-506(0, 9.21=-592/0, 1-28=-0770,<br>2-27=0/318, 3-27=-5320, 3-68=-57/333, 524=-5790, 6-24=-0/383, 6-22=-7010,<br>8-22=0/710, 8-21=-821/0, 9-20=0/1011, 10-20=-1369/0, 11-17=0/1073, 12-16=-1041/0,<br>13-16=0/969, 13-15=-1226/0 NOTES (5-6) I) Unbalanced floor live loads have been considered for this design. 2) All plates are 3x4 MT20 unless otherwise indicated. S) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 co and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to<br>be attached to walls at their outer ends or restrained by other means. 4) CAUTION, Do not erect truss backwards. 6) Graphical web braced. 6) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural<br>design of the truss to support the loads indicated. LOAD CASE(S) Standard 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (pt)<br>Vert: 12=-640 Vert: 12=-640  | Max G  | rav 29=581(LC 10), 21=1315                                    | LC 1), 15=829(LC 4)  |                                       | - /            |  |  |                                 |
| TOP CHORD       29-30=-578(0, 1-30=-577,0), 1-2=-658(0, 2-3=-1522(0, 3-4=-1648(0, 4-5=-1648(0, 1-5=-1648(0, 5-8=-1562(0, 5-7=-807(0, 7-8=-807(0, 8-9=-252/33, 5)=100=-988(0, 10-11=-1934, 1, 1-12=-2510(0, 12-13=-1680(0)         OT CHORD       27-28=0/1232, 26-27=0/1792, 25-26=0/1848, 24-25=0/1848, 23-24=0/1323, 22-23=0/1323, 21-22=0/341, 20-21=-336/252, 19-20=0/1934, 18-19=0/1934, 16-17=0/2510, 15-16=-0/935         WEBS       12-17=-462/0, 10-19=0/460, 11-18=-506(0, 9-21=-592/0, 1-28=0/768, 2-28=-747/0, 2-27=0/378, 3-27=-352/0, 3-26=-57/33, 5-24=-379/0, 6-24=0/383, 6-22=-701/0, 8-22=-701/0, 8-22=-701/0, 8-22=-701/0, 8-22=-701/0, 8-22=-701/0, 1-17=0/1073, 12-16=-1041/0, 13-16=-0/969, 13-15=-1226/0         NOTES-       (-6-6)         10 Unbalanced floor live loads have been considered for this design.         2) All plates are 3x4 MT20 unless otherwise indicated.         3) 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.         4) CAUTION, Do not erect truss backwards.         5) Graphical web braced.         5) Graphical web braced.         10 Dead + Filos Live (balanced): Lumber increase=1.00, Plate Increase=1.00         Uniform Loads (pt)         Vert: 12=-640  | FORCES. (lb) - Max.  | Comp./Max. Ten All forces                                     | 250 (lb) or less except when sh                                  | nown.                                 |                |  |  |                                 |
| 11-12=-25100, 12-13=-16800         BOT CHORD       27-28=10232, 26-27=01/192, 25-26=01/1848, 24-25=01/1848, 23-24=01/1323, 22-23=01/1323, 21-22=0341, 20-21=-336/252, 19-20=01/1934, 18-19=01/1934, 16-17=0/2510, 15-16=0935         WEBS       12-17=-462/0, 10-19=0/460, 11-18=-506/0, 9-21=-592/0, 1-28=0/796, 2-28=-747/0, 2-27=0/378, 3-27=-352/0, 3-26=-57/333, 5-24=-379/0, 6-24=0/383, 6-22=-701/0, 8-22=-710/0, 8-22=-710/0, 8-22=-710/0, 9-20=0/1011, 10-20=-1369/0, 11-17=0/1073, 12-16=-1041/0, 13-16=0/969, 13-15=-1226/0         NOTES-       (5-6)         1) Unbalanced floor live loads have been considered for this design.         2) All plates are 3x4 MT20 unless otherwise indicated.         3) 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 walks at their outer ends or restrained by other means.         4) CAUTION, Do not erect truss backwards.         5) Graphical web 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.         LOAD CASE(S) Standard         1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00         Uniform Loads (pf)         Vert: 12=-640   | TOP CHORD 29-30<br>5-6=-   | )=-578/0, 1-30=-577/0, 1-2=-6<br>1592/0. 6-7=-807/0. 7-8=-807 | 58/0, 2-3=-1522/0, 3-4=-1848/0<br>/0. 8-9=-252/336. 9-10=-988/0. | ), 4-5=-1848/0,<br>10-11=-1934/0.     |                |  |  |                                 |
| BOT CHORD 21-22-071924; 2021-071934; 2422-071934; 18-19-071934; 18-17-02510,<br>12-122-0734; 2021-2336/252, 19-20-071934; 18-19-071934; 18-17-02510,<br>15-16-07935<br>WEBS 12-17-4620; 10-19-0/460, 11-18-506(0, 9-21=-5920, 1-28=0/796; 2-28=-747/0,<br>2-27-07378; 3-27=-3520; 3-26=-57/333; 5-24=-379/0; 6-24=0/383; 6-22=-701/0;<br>8-22=0710, 8-21=-8210, 9-20=0/1011, 10-20=-1369/0; 11-17=0/1073; 12-16=-1041/0;<br>13-16=0/969; 13-15=-1226/0<br>NOTES- (5-6)<br>1) Unbalanced floor live loads have been considered for this design.<br>2) All plates are 3x4 MT20 unless otherwise indicated.<br>3) 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<br>be attached to walls at their outer ends or restrained by other means.<br>4) CAUTION, Do not erect truss backwards.<br>5) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that<br>the member must be braced.<br>6) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural<br>design of the truss to support the loads indicated.<br><b>LOAD CASE(S)</b> Standard<br>1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (pf)<br>Vert: 12-2-640<br>Vert: 12-2-640   | 11-12<br>POT CHOPD 27.29   | 2=-2510/0, 12-13=-1680/0                                      | 6-0/1949 24 25-0/1949 22 2                                       | 4-0/1222 22 22-0/122                  | 2              |  |  |                                 |
| 15-16=0/935         WEBS       12-17=-462/0, 10-19=0/460, 11-18=-506/0, 9-21=-592/0, 1-28=0/796, 2-28=-747/0, 2-27=0/378, 3-27=-352/0, 3-26=-57/333, 5-24=-379/0, 6-24=0/383, 6-22=-701/0, 8-22=0/710, 8-22=0/710, 8-22=0/710, 8-22=0/710, 8-22=0/710, 8-22=0/710, 8-22=0/710, 8-22=0/710, 9-20=0/1011, 10-20=-1369/0, 11-17=0/1073, 12-16=-1041/0, 13:16=0/969, 13-15=-1226/0         NOTES-       (5-6)         1) Unbalanced floor live loads have been considered for this design.         2) All plates are 3x4 MT20 unless otherwise indicated.         3) 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.         4) CAUTION. Do not erect truss backwards.         5) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.         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.         LOAD CASE(S) Standard         1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00         Uniform Loads (pf)         Vert: 12=-640  | 21-22  | 2=0/341, 20-21=-336/252, 19-                                  | 20=0/1934, 18-19=0/1934, 17-1                                    | 8=0/1934, 16-17=0/251                 | 0,             |  |  |                                 |
| <ul> <li>2-27=0/378, 3-27=-352/0, 3-26=-57/333, 5-24=-379/0, 6-24=0/383, 6-22=-701/0, 8-22=0/710, 8-21=-821/0, 9-20=0/1011, 10-20=-1369/0, 11-17=0/1073, 12-16=-1041/0, 13-16=-0/969, 13-15=-1226/0</li> <li>NOTES- (5-6)</li> <li>1) Unbalanced floor live loads have been considered for this design.</li> <li>2) All plates are 3x4 MT20 unless otherwise indicated.</li> <li>3) 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.</li> <li>4) CAUTION, Do not erect truss backwards.</li> <li>5) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.</li> <li>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.</li> <li>LOAD CASE(S) Standard</li> <li>1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00</li> <li>Uniform Loads (lb)</li> <li>Vert: 12=-640</li> </ul>  | 15-16<br>WEBS 12-17  | 6=0/935<br>/=-462/0. 10-19=0/460. 11-18                       | =-506/0. 9-21=-592/0. 1-28=0/7                                   | 96. 2-28=-747/0.                      |                |  |  |                                 |
| NOTES- (5-6)<br>1) Unbalanced floor live loads have been considered for this design.<br>2) All plates are 3x4 MT20 unless otherwise indicated.<br>3) 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<br>be attached to walls at their outer ends or restrained by other means.<br>4) CAUTION, Do not erect truss backwards.<br>5) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that<br>the member must be braced.<br>6) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural<br>design of the truss to support the loads indicated.<br><b>LOAD CASE(S)</b> Standard<br>1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 15-29=8, 1-14=-80<br>Concentrated Loads (lb)<br>Vert: 12=-640<br><b>Lize1/2024</b>  | 2-27=  | 0/378, 3-27=-352/0, 3-26=-5                                   | //333, 5-24=-379/0, 6-24=0/383                                   | , 6-22=-701/0,                        |                |  |  |                                 |
| <ul> <li>NOTES- (5-6)</li> <li>1) Unbalanced floor live loads have been considered for this design.</li> <li>2) All plates are 3x4 MT20 unless otherwise indicated.</li> <li>3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 cc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.</li> <li>4) CAUTION, Do not erect truss backwards.</li> <li>5) Graphical web bracad.</li> <li>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.</li> <li>LOAD CASE(S) Standard</li> <li>1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 15-29=-8, 1-14=-80 Concentrated Loads (b) Vert: 12=-640</li> </ul>   | 13-16  | 6=0/969, 13-15=-1226/0  | 011, 10-201000/0, 11-17-0/1                                      | 1073, 12-10-104170,                   |                |  |  |                                 |
| <ul> <li>1) Unbalanced floor live loads have been considered for this design.</li> <li>2) All plates are 3x4 MT20 unless otherwise indicated.</li> <li>3) 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.</li> <li>4) CAUTION, Do not erect truss backwards.</li> <li>5) Graphical web braced.</li> <li>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.</li> <li><b>LOAD CASE(S)</b> Standard</li> <li>1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (pf) Vert: 15-29=-8, 1-14=-80 Concentrated Loads (lb) Vert: 12=-640</li> </ul>  | NOTES- (5-6)   |   |  |                                       |                |  |  |                                 |
| <ul> <li>2) An plates are over white 0 unless 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.</li> <li>4) CAUTION, Do not erect truss backwards.</li> <li>5) Graphical web braced.</li> <li>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.</li> <li>LOAD CASE(S) Standard</li> <li>1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00</li> <li>Uniform Loads (pf) Vert: 15-29=-8, 1-14=-80</li> <li>Concentrated Loads (lb) Vert: 12=-640</li> </ul>  | 1) Unbalanced floor liv  | ve loads have been considere                                  | d for this design.   |                                       |                |  |  |                                 |
| be attached to walls at their outer ends or restrained by other means.<br>4) CAUTION, Do not erect truss backwards.<br>5) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that<br>the member must be braced.<br>6) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural<br>design of the truss to support the loads indicated.<br><b>LOAD CASE(S)</b> Standard<br>1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 15-29=-8, 1-14=-80<br>Concentrated Loads (lb)<br>Vert: 12=-640<br>IZ/21/2024  | 3) Recommend 2x6 st  | trongbacks, on edge, spaced                                   | at 10-0-0 oc and fastened to ea                                  | ach truss with 3-10d (0. <sup>2</sup> | 131" X 3"      | ") nails. Strongback                       | s to                                   |                                 |
| <ul> <li>5) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.</li> <li>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.</li> <li>LOAD CASE(S) Standard <ol> <li>Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00</li> <li>Uniform Loads (pl)</li> <li>Vert: 15-29=-8, 1-14=-80</li> <li>Concentrated Loads (lb)</li> <li>Vert: 12=-640</li> </ol> </li> </ul>  | <ul> <li>be attached to walls</li> <li>4) CAUTION, Do not e</li> </ul> | s at their outer ends or restrai<br>erect truss backwards.    | ned by other means.  |                                       |                |  |  |                                 |
| 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.<br>LOAD CASE(S) Standard<br>1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 15-29=-8, 1-14=-80<br>Concentrated Loads (lb)<br>Vert: 12=-640<br>LOAD CASE(S) Standard<br>12/21/2024   | 5) Graphical web brac  | ing representation does not o                                 | epict the size, type or the orient                               | tation of the brace on th             | e web. S       | Symbol only indicates                      | s that                                 | 1000                            |
| design of the truss to support the loads indicated.  LOAD CASE(S) Standard  1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 15-29=-8, 1-14=-80 Concentrated Loads (lb) Vert: 12=-640  I2/21/2024  | 6) Bearing symbols ar  | e only graphical representation                               | ns of a possible bearing condit                                  | ion. Bearing symbols ar               | e not cor      | nsidered in the struc                      | tural white TH C                       | ARO                             |
| LOAD CASE(S) Standard<br>1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 15-29=-8, 1-14=-80<br>Concentrated Loads (lb)<br>Vert: 12=-640   | design of the truss  | to support the loads indicated                                |  |                                       |                |  | OFES                                   | SIDANS                          |
| 1) Dead + Piot Live (alariced). Lumber increase - 1.00, Plate increase - 1.00       Uniform Loads (pl)       Vert: 15-29=-8, 1-14=-80       Concentrated Loads (lb)       Vert: 12=-640  | LOAD CASE(S) Stand   | dard  | 1 00. Ploto Increase=1 00  |                                       |                |  | in a second                            | Lei                             |
| Vert: 15-29=-8, 1-14=-80<br>Concentrated Loads (lb)<br>Vert: 12=-640   | Uniform Loads (plf)  | palanced): Lumber increase=                                   | 1.00, Plate Increase=1.00  |                                       |                |  | SEA                                    |                                 |
| Vert: 12=-640 Your Et al. 12/21/2024   | Vert: 15-29<br>Concentrated Load                                       | =-8, 1-14=-80<br>s (lb)                                       |  |                                       |                |  | 1111                                   | " ] Ē                           |
| 12/21/2024   | Vert: 12=-6  | 40  |  |                                       |                |  | THIN AS SNOW                           | EER & MA                        |
| 12/21/2024   |  |   |  |                                       |                |  | MARK K                                 | MORRAN                          |
| 12/21/2024   |  |   |  |                                       |                |  | All the total                          | inum.                           |
|  |  | • • •   |  |                                       | 1. 0           |  | 12/2                                   | 1/2024                          |

| lob   | Truss  | Truss T   | уре  |  | Qty                         | Ply                             | LOT 0.0017 CA                                 | MPBELL RIDGE                   | 231 ALDEN WA                      | Y ANGIER, NC                               |                    |
|---|--|---|--|--|-----------------------------|---------------------------------|---|--------------------------------|-----------------------------------|--|--------------------|
| 24-B592-F01   | F116   | Floor   |  |  | 12                          | 1                               | Job Reference                                 | e (ontional)                   |                                   | # 55564                                    |                    |
| 0-1-8   | I  |   | 060  | Run: 8<br>ID:U   | .630 s Jul<br>JMCU2t6       | 12 2024 Pr<br>gUxCLqM           | nt: 8.630 s Jul 12<br>Ko_q9qxyaVB1            | 2024 MiTek Indu<br>-OsAntTPYE8 | stries, Inc. Sat D<br>D10Zw?TcC_9 | ec 21 20:29:44 2024<br>lai_k796KYlOsagl    | Page 1<br>∢Dby6ejr |
| ⊣⊢ <u>1-3-</u>  | <u></u>  |   | <del>0-6-2</del>   | 2-0-0  | - <u>0-6-</u>               | 2                               |   |                                |                                   | 0 <sub>⊑</sub> 1 <sub>1</sub> 8<br>Scale = | s<br>= 1:22.7      |
| 1.5x3 =   |  |   | 1.5x3  |  | 1.5x3                       | 0                               |   | _                              |                                   | 1.5x3 =                                    | =                  |
|   |  |   |  | T1   | 5                           | 6                               |   |                                |                                   |  | 18 [1-2-0]         |
|   | 15   | 14  | 13   |  | 12                          |                                 | 11  |                                | 10                                | 28   |                    |
| Plate Offsets (X,Y)-  | 5-1<br>5-1<br>- [8:0-1-8,Edge], [12:0  | 0-10<br>0-10<br>)-1-8,Edge], [13:0- <sup>-</sup>  | 6-<br>1<br>1-8,Edge], [16:Edge,0   | 10-10 7-10-10<br>-0-0 1-0-0<br>)-1-8]                    |                             |                                 |   | 13-9-4<br>5-10-10              |                                   |  |                    |
| LOADING (psf)<br>TCLL 40.0<br>TCDL 10.0                                       | SPACING-<br>Plate Grip DC<br>Lumber DOL  | 1-7-3<br>DL 1.00<br>1.00  | <b>CSI.</b><br>TC 0.29<br>BC 0.40  | DEFL.<br>Vert(LL<br>Vert(CT                              | ir<br>0.08<br>0.11          | i (loc)<br>3 12-13<br>12-13     | l/defl L/d<br>>999 480<br>>999 360            | F                              | <b>PLATES</b><br>//T20            | <b>GRIP</b><br>244/190                     |                    |
| BCDL 5.0  | Code IRC202  | 1/TPI2014   | Matrix-SH  | Horz(C   | 1) 0.02                     | 9                               | n/a n/a                                       | v                              | Veight: 70 lb                     | FT = 20%F, <sup>2</sup>                    | 11%E               |
| LUMBER-<br>TOP CHORD 2x4 3<br>BOT CHORD 2x4 3<br>WEBS 2x4 3                   | SP No.1(flat)<br>SP No.1(flat)<br>SP No.3(flat)  |   |  | BRACIN<br>TOP CH<br>BOT CH                               | i <b>g-</b><br>Iord<br>Iord | Structur<br>end ver<br>Rigid ce | al wood sheat<br>ticals.<br>eiling directly a | hing directly                  | applied or 6-0<br>0-0 oc bracing  | -0 oc purlins, e><br>J.                    | ‹cept              |
| REACTIONS. (Ib/s  | ize) 16=590/0-5-6 (r   | nin. 0-1-8), 9=590/   | 0-5-6 (min. 0-1-8)   |  |                             |                                 |   |                                |                                   |  |                    |
| FORCES. (Ib) - Ma<br>TOP CHORD 16-<br>5-6<br>BOT CHORD 14-<br>WEBS 4-1<br>7-1 | x. Comp./Max. Ten<br>17=-586/0, 1-17=-585<br>=-1897/0, 6-7=-1553/0<br>15=0/1253, 15-14=0/1<br>3=-268/39, 5-12=-269<br>0=-760/0, 7-11=0/390 | All forces 250 (lb) (<br>/0, 9-18=-586/0, 8-<br>0, 7-8=-669/0<br>831, 12-13=0/1897<br>/39, 1-15=0/810, 2-<br>6-11=-363/0 6-12 | or less except when s<br>18=-585/0, 1-2=-669/<br>7, 11-12=0/1831, 10-<br>15=-760/0, 2-14=0/3<br>=-84/380 | hown.<br>0, 2-3=-1553/0,<br>11=0/1253<br>90, 3-14=-363/0 | 3-4=-189<br>, 3-13=-8       | 97/0, 4-5:<br>34/379, 8         | 1897/0,<br>-10=0/810,                         |                                |                                   |  |                    |

NOTES- (4-5)

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

2) All plates are 3x4 MT20 unless otherwise indicated.

3) 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.

4) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard





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

(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 14, 15, 16, 17, 18, 23, 22, 21, 20, 19

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

NOTES- (6-7)

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

2) Gable requires continuous bottom chord bearing.

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

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

5) 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.

6) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard

