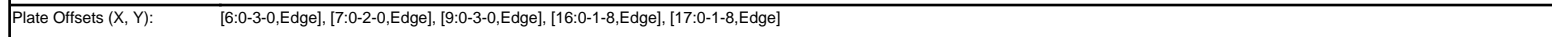


UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Mon Feb 10 13:39:20 Page: 1  
ID:Y?I0TELAG5G72hK6FRQkx8OyE?ZL-2s0v?terS0REBDgdX5oitKx89u?0Bn9x5DFYglzmXqb



|               |                   |                |   |
|---------------|-------------------|----------------|---|
| <b>LUMBER</b> |                   | <b>BRACING</b> |   |
| TOP CHORD     | 2x4 SP SS(flat)   | TOP CHORD      | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD     | 2x4 SP SS(flat)   | BOT CHORD      | Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |
| WEBS          | 2x4 SP No.3(flat) |                |   |
| OTHERS        | 2x4 SP No.3(flat) |                |   |

|                  |  |   |
|------------------|--|---|
| <b>REACTIONS</b> | (lb/size)  | 13=1433/0-3-8, (min. 0-1-8), 20=1438/0-3-8, (min. 0-1-8)  |
| <b>FORCES</b>    | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |   |
| TOP CHORD        |  | 2-3=-4303/0, 3-4=-4306/0, 4-5=-6923/0, 5-6=-6923/0, 6-7=-6923/0, 7-8=-6116/0, 8-9=-6116/0, 9-10=-4286/0, 10-11=-4283/0  |
| BOT CHORD        |  | 19-20=0/3188, 18-19=0/5441, 17-18=0/5441, 16-17=0/6923, 15-16=0/6769, 14-15=0/5424, 13-14=0/3172  |
| WEBS             |  | 5-17=-571/0, 6-16=-379/117, 2-20=-3419/0, 2-19=0/1451, 4-19=-1446/0, 4-17=0/1787, 11-13=-3402/0, 11-14=0/1446, 9-14=-1450/0, 9-15=0/879, 7-15=-829/0, 7-16=-237/706 |

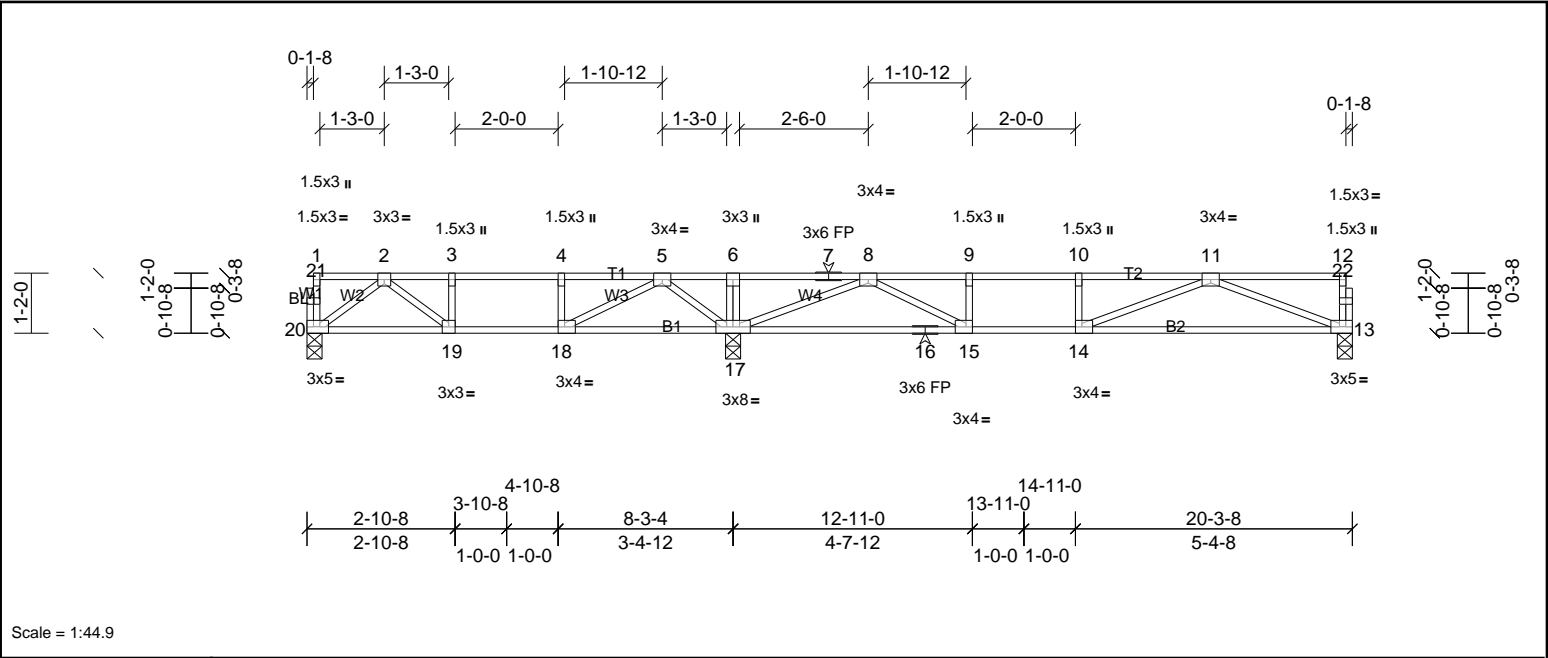
**NOTES**

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) The Fabrication Tolerance at joint 18 = 11%
- 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

| LOAD CASE(S) |  | Standard |
|--------------|--|----------|
| 1)           | Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (lb/ft)<br>Vert: 13-20=-10, 1-5=-140, 5-6=-176, 6-12=-140 |          |

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

|          |       |            |     |     |                             |
|----------|-------|------------|-----|-----|-----------------------------|
| Job      | Truss | Truss Type | Qty | Ply | MUNGO HOMES-RUSSELL 2ND FLR |
| 72503908 | F201  | Truss      | 2   | 1   | Job Reference (optional)    |

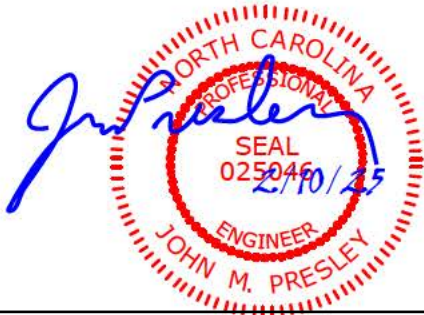


|                       |   |
|-----------------------|---|
| Plate Offsets (X, Y): | [13:0-2-0,Edge], [14:0-1-8,Edge], [15:0-1-8,Edge], [18:0-1-8,Edge], [20:0-2-0,Edge] |
|-----------------------|---|

| Loading | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | I/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC        | 0.88 | Vert(LL) | -0.19 | 13-14 | >749   | 480 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC        | 0.82 | Vert(CT) | -0.30 | 13-14 | >476   | 360 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | NO              | WB        | 0.40 | Horz(CT) | 0.03  | 13    | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-SH |      |          |       |       |        |     | Weight: 98 lb | FT = 20%F, 11%E |

| LUMBER   | BRACING   |
|--|---|
| TOP CHORD 2x4 SP No.2(flat)  | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2(flat)  | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:                          |
| WEBS 2x4 SP No.3(flat)   | 6-0-0 oc bracing: 17-18.  |
| OTHERS 2x4 SP No.3(flat)   |   |
| REACTIONS (lb/size) 13=601/0-3-8, (min. 0-1-8), 17=1213/0-3-8, (min. 0-1-8), 20=378/0-3-8, (min. 0-1-8)  |   |
| Max Grav 13=621 (LC 7), 17=1213 (LC 1), 20=417 (LC 10)   |   |
| FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  |   |
| TOP CHORD 2-3=-757/0, 3-4=-757/0, 4-5=-757/0, 5-6=0/607, 6-7=0/616, 7-8=0/616, 8-9=-1684/0, 9-10=-1684/0, 10-11=-1684/0                            |   |
| BOT CHORD 19-20=0/465, 18-19=0/757, 17-18=-150/342, 16-17=0/1067, 15-16=0/1067, 14-15=0/1684, 13-14=0/1254   |   |
| WEBS 4-18=-268/0, 6-17=-250/0, 9-15=-301/0, 2-20=-579/0, 2-19=0/373, 8-17=-1471/0, 8-15=0/789, 11-13=-1342/0, 11-14=0/464, 5-17=-694/0, 5-18=0/663 |   |

- NOTES
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 5) CAUTION, Do not erect truss backwards.



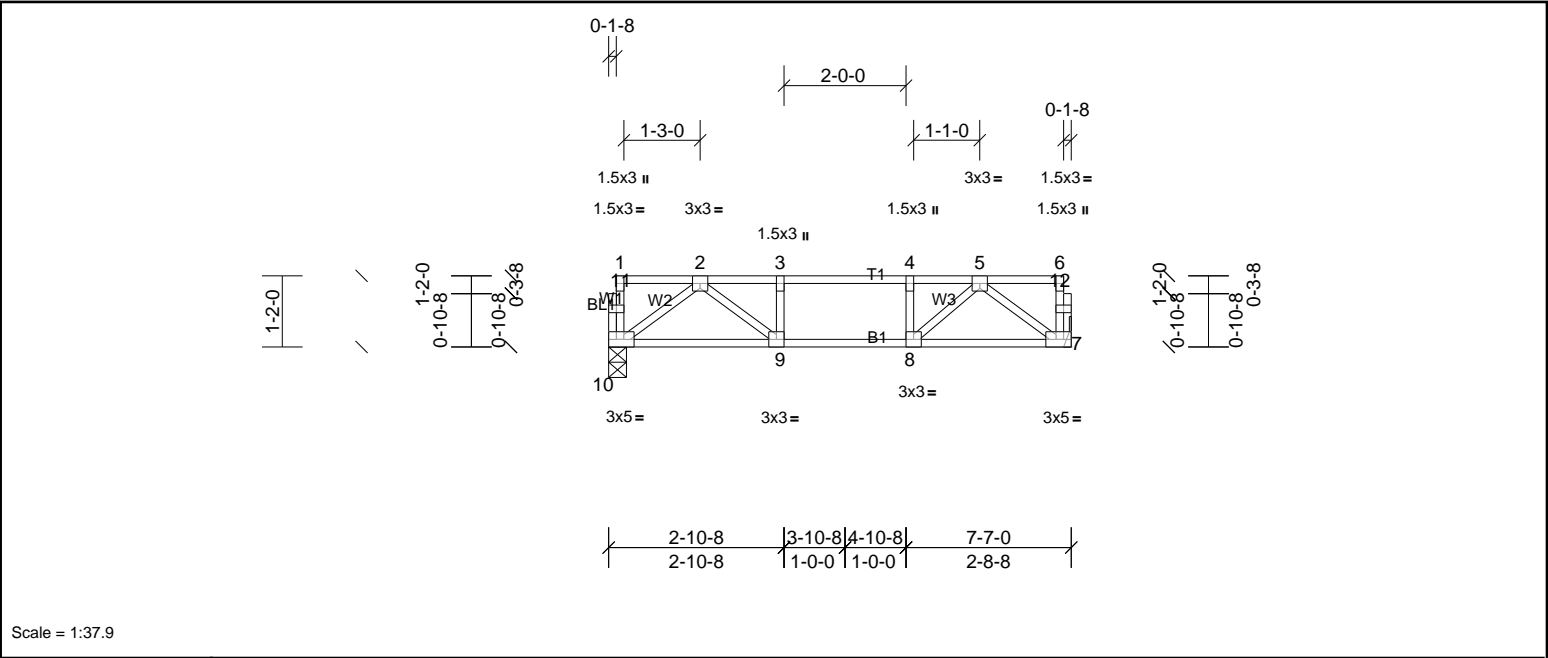
|          |       |            |     |     |                             |
|----------|-------|------------|-----|-----|-----------------------------|
| Job      | Truss | Truss Type | Qty | Ply | MUNGO HOMES-RUSSELL 2ND FLR |
| 72503908 | F202  | Truss      | 1   | 1   | Job Reference (optional)    |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry

Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Mon Feb 10 13:39:20

Page: 1

ID:CUI2sXDme91MoWStEQcyaDyE\_Tn-2s0v?terSOreBDgdX5oitKxAlu8WBzzx5DFYglzmXqb



Scale = 1:37.9

Plate Offsets (X, Y): [7'-0"-2'-0",Edge], [10'-0"-2'-0",Edge]

| Loading | (psf) | Spacing         | 2'-0"-0"        | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC        | 0.33 | Vert(LL) | -0.03 | 9-10  | >999   | 480 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC        | 0.29 | Vert(CT) | -0.04 | 9-10  | >999   | 360 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB        | 0.18 | Horz(CT) | 0.01  | 7     | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-SH |      |          |       |       |        |     | Weight: 39 lb | FT = 20%F, 11%E |

| LUMBER    |                   | BRACING   |  |
|-----------|-------------------|-----------|--|
| TOP CHORD | 2x4 SP No.2(flat) | TOP CHORD | Structural wood sheathing directly applied or 6'-0"-0" oc purlins, except end verticals. |
| BOT CHORD | 2x4 SP No.2(flat) | BOT CHORD | Rigid ceiling directly applied or 10'-0"-0" oc bracing.                                  |
| WEBS      | 2x4 SP No.3(flat) |           |  |
| OTHERS    | 2x4 SP No.3(flat) |           |  |

REACTIONS (lb/size) 7=397/ Mechanical, (min. 0'-1'-8), 10=397/0'-3'-8, (min. 0'-1'-8)

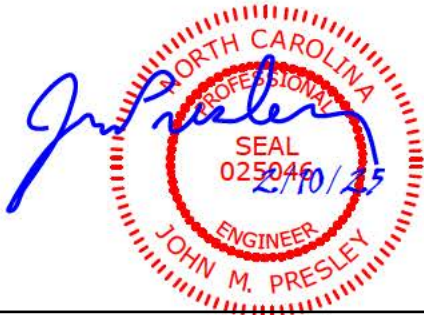
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-680/0, 3-4=-680/0, 4-5=-680/0

BOT CHORD 9-10=0/437, 8-9=0/680, 7-8=0/437

WEBS 2-10=-544/0, 2-9=0/355, 5-7=-544/0, 5-8=0/375

- NOTES
- Unbalanced floor live loads have been considered for this design.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 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.



|          |       |            |     |     |                             |
|----------|-------|------------|-----|-----|-----------------------------|
| Job      | Truss | Truss Type | Qty | Ply | MUNGO HOMES-RUSSELL 2ND FLR |
| 72503908 | F203  | Truss      | 4   | 1   | Job Reference (optional)    |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry

Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Mon Feb 10 13:39:21

Page: 1

ID:FogodrQdAJ2S4tDz1dGQAYyE?Sn-W2ZHDCFTDiz5pNFp5pKxQXTGuIMxwLm4Kt\_6CBzmXqa

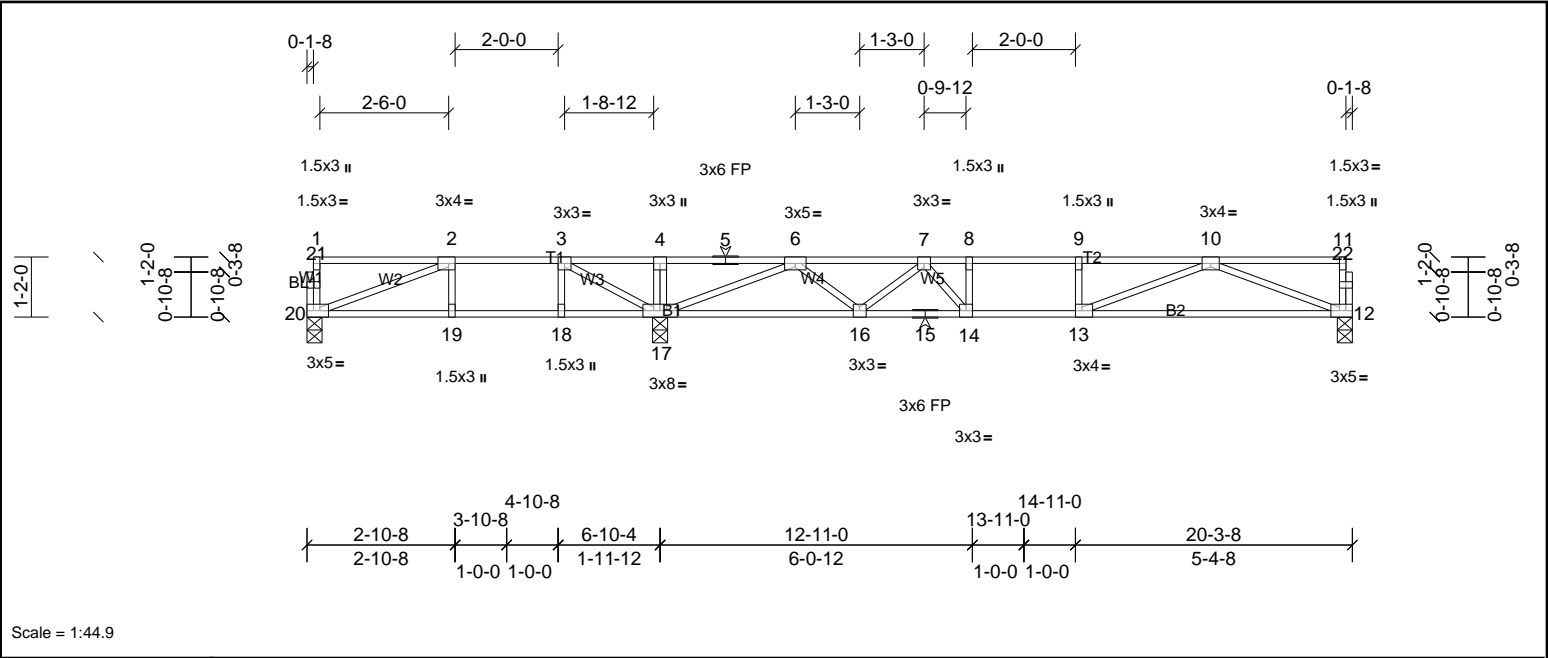


Plate Offsets (X, Y): [2:0-1-8,Edge], [12:0-2-0,Edge], [13:0-1-8,Edge], [20:0-2-0,Edge]

| Loading | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | I/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC        | 0.66 | Vert(LL) | -0.14 | 12-13 | >999   | 480 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC        | 0.79 | Vert(CT) | -0.23 | 12-13 | >694   | 360 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | NO              | WB        | 0.46 | Horz(CT) | 0.04  | 12    | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-SH |      |          |       |       |        |     | Weight: 98 lb | FT = 20%F, 11%E |

| LUMBER    |   | BRACING   |   |
|-----------|---|-----------|---|
| TOP CHORD | 2x4 SP No.2(flat)   | TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD | 2x4 SP No.2(flat)   | BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing.                                   |
| WEBS      | 2x4 SP No.3(flat)   |           |   |
| OTHERS    | 2x4 SP No.3(flat)   |           |   |
| REACTIONS | (lb/size)   |           |   |
|           | 12=696/0-3-8, (min. 0-1-8), 17=1187/0-3-8, (min. 0-1-8), 20=309/0-3-8, (min. 0-1-8)                                     |           |   |
|           | Max Grav 12=705 (LC 7), 17=1192 (LC 8), 20=366 (LC 3)   |           |   |
| FORCES    | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  |           |   |
| TOP CHORD | 2-3=-588/90, 3-4=-31/517, 4-5=-28/522, 5-6=-28/522, 6-7=-1715/0, 7-8=-2176/0, 8-9=-2176/0, 9-10=-2176/0                 |           |   |
| BOT CHORD | 19-20=-90/588, 18-19=-90/588, 17-18=-90/588, 16-17=0/1314, 15-16=0/2070, 14-15=0/2070, 13-14=0/2176, 12-13=0/1467       |           |   |
| WEBS      | 8-14=-270/0, 2-20=-622/99, 3-17=-833/0, 10-12=-1572/0, 10-13=0/784, 6-17=-1697/0, 6-16=0/559, 7-16=-515/0, 7-14=-46/430 |           |   |

- NOTES
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 5) CAUTION, Do not erect truss backwards.



UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Mon Feb 10 13:39:21 Page: 1  
ID:r1axiF0k35eqFuBri7h64yE?S1-W2ZHDCfTDiz5pNFp5pKxQXTEplMEwGr4t\_6CBzmXga



|               |                   |                |   |
|---------------|-------------------|----------------|---|
| <b>LUMBER</b> |                   | <b>BRACING</b> |   |
| TOP CHORD     | 2x4 SP SS(flat)   | TOP CHORD      | Structural wood sheathing directly applied or 5-7-1 oc purlins, except end verticals. |
| BOT CHORD     | 2x4 SP SS(flat)   | BOT CHORD      | Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |
| WEBS          | 2x4 SP No.3(flat) |                |   |
| OTHERS        | 2x4 SP No.3(flat) |                |   |

**NOTES**

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.


\_\_\_\_\_



*[Signature]*

SEAL  
025046

025049  
2/10/25



JOHN M. PRESLE

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is

fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

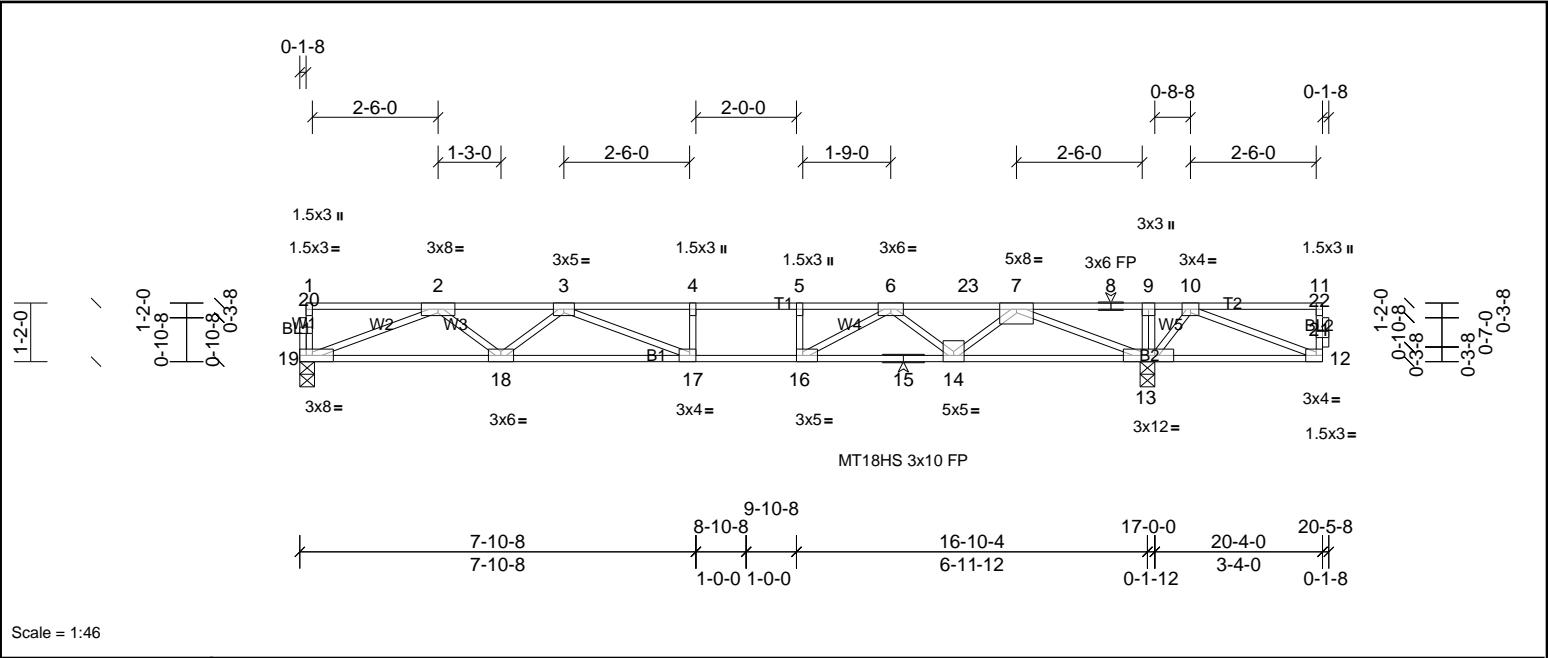
|          |       |            |     |     |                             |
|----------|-------|------------|-----|-----|-----------------------------|
| Job      | Truss | Truss Type | Qty | Ply | MUNGO HOMES-RUSSELL 2ND FLR |
| 72503908 | F205  | Truss      | 10  | 1   | Job Reference (optional)    |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry

Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Mon Feb 10 13:39:21

Page: 1

ID:z4viZKaDoV0\_zU\_D54TiW\_yE?RI-W2ZHDcFTDiz5pNFp5pKxQXTE1IMawFb4Kt\_6CBzmXqa



Scale = 1:46

|                       |       |                                  |                 |            |      |             |       |       |        |     |                |                 |
|-----------------------|-------|----------------------------------|-----------------|------------|------|-------------|-------|-------|--------|-----|----------------|-----------------|
| Plate Offsets (X, Y): |       | [16:0-1-8,Edge], [17:0-1-8,Edge] |                 |            |      |             |       |       |        |     |                |                 |
| <b>Loading</b>        | (psf) | <b>Spacing</b>                   | 2-0-0           | <b>CSI</b> |      | <b>DEFL</b> | in    | (loc) | I/defl | L/d | <b>PLATES</b>  | <b>GRIP</b>     |
| TCLL                  | 40.0  | Plate Grip DOL                   | 1.00            | TC         | 0.78 | Vert(LL)    | -0.27 | 17-18 | >741   | 480 | MT18HS         | 244/190         |
| TCDL                  | 30.0  | Lumber DOL                       | 1.00            | BC         | 0.81 | Vert(CT)    | -0.49 | 17-18 | >405   | 360 | MT20           | 244/190         |
| BCLL                  | 0.0   | Rep Stress Incr                  | NO              | WB         | 0.86 | Horz(CT)    | 0.07  | 13    | n/a    | n/a |                |                 |
| BCDL                  | 5.0   | Code                             | IRC2015/TPI2014 | Matrix-SH  |      |             |       |       |        |     | Weight: 100 lb | FT = 20%F, 11%E |

|   |  |                |  |
|---|--|----------------|--|
| <b>LUMBER</b>   |  | <b>BRACING</b> |  |
| TOP CHORD   | 2x4 SP SS(flat)  | TOP CHORD      | Structural wood sheathing directly applied or 5-6-15 oc purlins, except end verticals. |
| BOT CHORD   | 2x4 SP SS(flat)  | BOT CHORD      | Rigid ceiling directly applied or 10-0-0 oc bracing, Except:                           |
| WEBS  | 2x4 SP No.3(flat)  |                | 6-0-0 oc bracing: 12-13.   |
| OTHERS  | 2x4 SP No.3(flat)  |                |  |
| <b>REACTIONS</b>  |  |                |  |
| (lb/size)   | 13=2074/0-3-8, (min. 0-1-8), 19=1191/0-3-8, (min. 0-1-8)   |                |  |
| Max Grav  | 13=2074 (LC 1), 19=1219 (LC 3)   |                |  |
| <b>FORCES</b>   |  |                |  |
| (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  |  |                |  |
| TOP CHORD   | 2-3=-3470/0, 3-4=-4759/0, 4-5=-4759/0, 5-6=-4759/0, 6-23=-3174/0, 7-23=-3174/0, 7-8=0/998, 8-9=0/998, 9-10=0/992   |                |  |
| BOT CHORD   | 18-19=0/2664, 17-18=0/4205, 16-17=0/4759, 15-16=0/4003, 14-15=0/4003, 13-14=0/2339, 12-13=-477/0   |                |  |
| WEBS  | 4-17=-278/0, 5-16=-435/0, 9-13=-324/0, 2-19=-2856/0, 2-18=0/1049, 3-18=-957/0, 3-17=0/895, 7-13=-3141/0, 7-14=0/1126, 6-14=-1129/0, 6-16=0/1224, 10-12=0/515, 10-13=-797/0 |                |  |
| <b>NOTES</b>  |  |                |  |
| 1) Unbalanced floor live loads have been considered for this design.  |  |                |  |
| 2) All plates are MT20 plates unless otherwise indicated.   |  |                |  |
| 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.   |  |                |  |
| 4) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.   |  |                |  |
| 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means. |  |                |  |
| 6) CAUTION, Do not erect truss backwards.   |  |                |  |
| <b>LOAD CASE(S)</b>   |  |                |  |
| Standard  |  |                |  |
| 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  |  |                |  |
| Uniform Loads (lb/ft)   |  |                |  |
| Vert: 12-19=-10, 1-23=-140, 11-23=-176  |  |                |  |







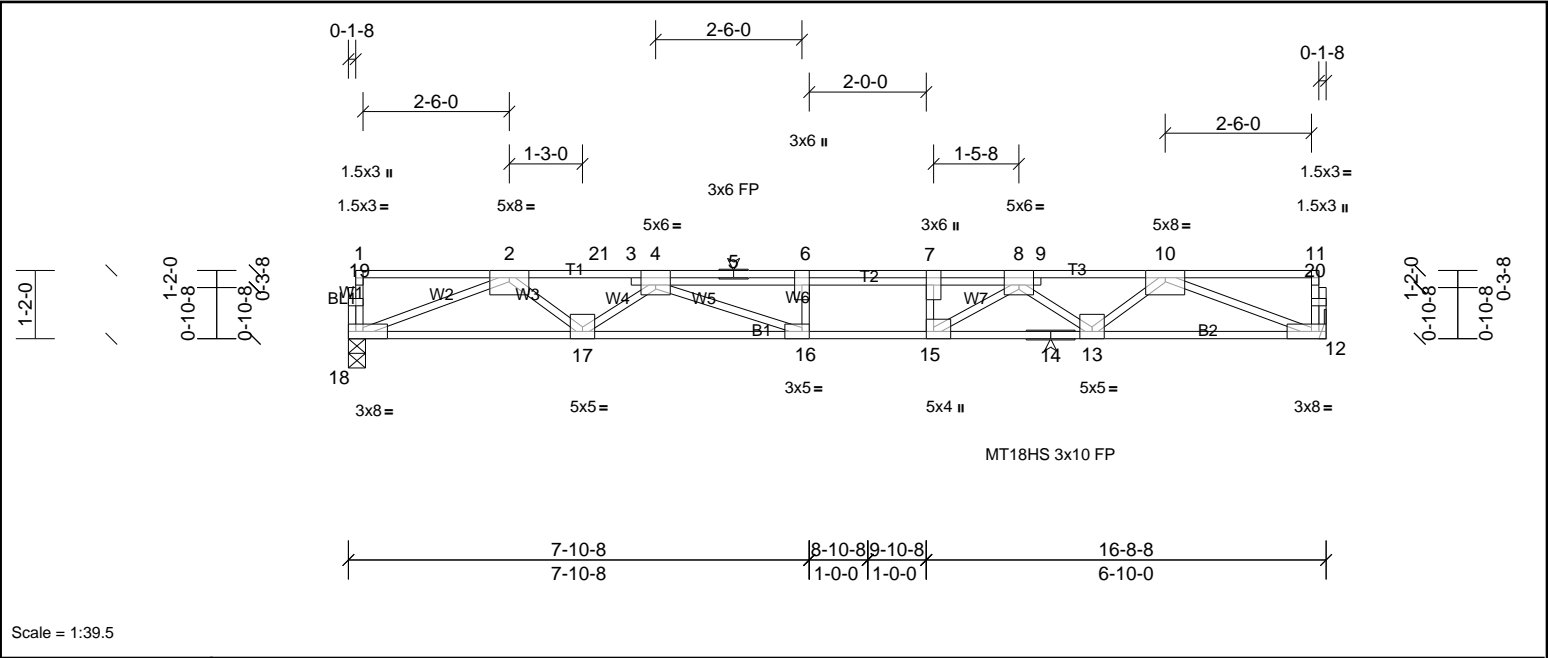
|          |       |            |     |     |                             |
|----------|-------|------------|-----|-----|-----------------------------|
| Job      | Truss | Truss Type | Qty | Ply | MUNGO HOMES-RUSSELL 2ND FLR |
| 72503908 | F207  | Truss      | 3   | 1   | Job Reference (optional)    |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry

Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Mon Feb 10 13:39:22

Page: 1

ID:DdXO9rlsgxZTAiZlclgYnyeyE?QM-W2ZHDCfTDiz5pNFp5pKxQXTDRINNwFU4Kt\_6CBzmXqa



Scale = 1:39.5

Plate Offsets (X, Y): [4:0-3-0,Edge], [7:0-3-0,Edge], [8:0-3-0,Edge], [15:0-1-8,Edge], [16:0-1-8,Edge]

| Loading | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | I/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC        | 0.88 | Vert(LL) | -0.21 | 16-17 | >946   | 480 | MT18HS        | 244/190         |
| TCDL    | 30.0  | Lumber DOL      | 1.00            | BC        | 0.76 | Vert(CT) | -0.45 | 16-17 | >437   | 360 | MT20          | 244/190         |
| BCLL    | 0.0   | Rep Stress Incr | NO              | WB        | 0.87 | Horz(CT) | 0.08  | 12    | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-SH |      |          |       |       |        |     | Weight: 90 lb | FT = 20%F, 11%E |

| LUMBER    |                   | BRACING   |  |
|-----------|-------------------|-----------|--|
| TOP CHORD | 2x4 SP No.1(flat) | TOP CHORD | Structural wood sheathing directly applied or 4-11-2 oc purlins, except end verticals. |
| BOT CHORD | 2x4 SP SS(flat)   | BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.                                   |
| WEBS      | 2x4 SP No.3(flat) |           |  |
| OTHERS    | 2x4 SP No.3(flat) |           |  |

**REACTIONS** (lb/size) 12=1312/ Mechanical, (min. 0-1-8), 18=1342/0-3-8, (min. 0-1-8)

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

TOP CHORD 2-21=-3947/0, 3-21=-3947/0, 3-4=-3940/0, 4-5=-5760/0, 5-6=-5760/0, 6-7=-5760/0, 7-8=-5760/0, 8-9=-3778/0, 9-10=-3800/0

BOT CHORD 17-18=0/2953, 16-17=0/4941, 15-16=0/5760, 14-15=0/4748, 13-14=0/4748, 12-13=0/2882

WEBS 6-16=-374/0, 7-15=-697/0, 2-18=-3167/0, 2-17=0/1293, 4-17=-1263/0, 4-16=0/1134, 10-12=-3091/0, 10-13=0/1195, 8-13=-1204/0, 8-15=0/1432

**NOTES**

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard

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

Uniform Loads (lb/ft)

Vert: 12-18=-10, 1-21=-140, 7-21=-176, 7-11=-140









|          |       |            |     |     |                             |
|----------|-------|------------|-----|-----|-----------------------------|
| Job      | Truss | Truss Type | Qty | Ply | MUNGO HOMES-RUSSELL 2ND FLR |
| 72503908 | FG1   | Truss      | 1   | 1   | Job Reference (optional)    |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry

Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Mon Feb 10 13:39:22

Page: 1

ID:jHq03Cnxq0m89H4Hdh6wJfYE?FQ\_E7fQYf5\_05yQXq?fWwAyI0O6iibfjYEZXkfkdzmXqZ

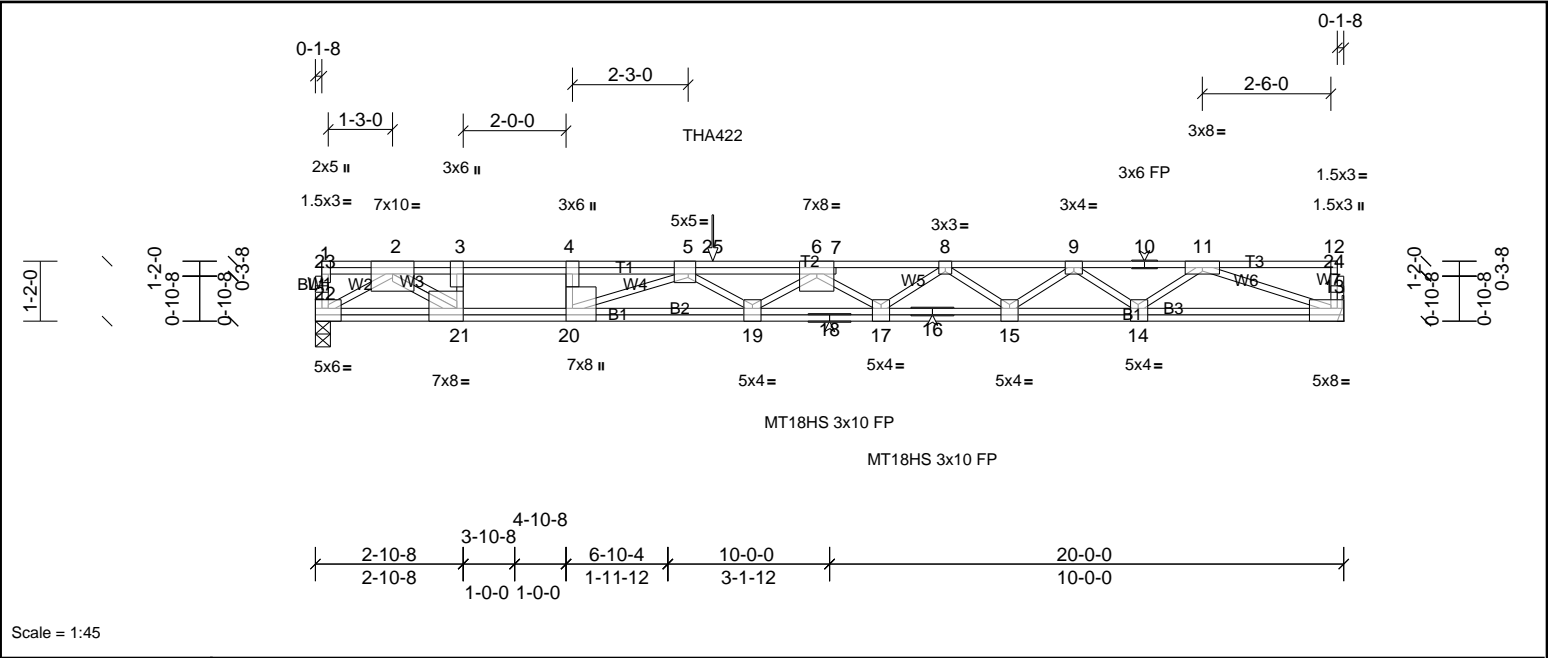


Plate Offsets (X, Y): [4:0-3-0,Edge], [5:0-1-12,Edge], [13:Edge,0-3-0], [14:0-1-12,Edge], [15:0-2-0,Edge], [17:0-2-0,Edge], [19:0-2-0,Edge], [20:0-3-0,Edge], [21:0-1-8,Edge], [22:0-3-0,Edge]

| Loading | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | I/defl | L/d | PLATES         | GRIP            |
|---------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC        | 0.88 | Vert(LL) | -0.44 | 19-20 | >530   | 480 | MT18HS         | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC        | 0.82 | Vert(CT) | -0.61 | 19-20 | >386   | 360 | MT20           | 244/190         |
| BCLL    | 0.0   | Rep Stress Incr | NO              | WB        | 0.81 | Horz(CT) | 0.04  | 13    | n/a    | n/a |                |                 |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-SH |      |          |       |       |        |     | Weight: 141 lb | FT = 20%F, 11%E |

| LUMBER    |                   | BRACING   |   |
|-----------|-------------------|-----------|---|
| TOP CHORD | 2x4 SP SS(flat)   | TOP CHORD | Structural wood sheathing directly applied or 4-5-2 oc purlins, except end verticals. |
| BOT CHORD | 2x4 SP SS(flat)   | BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |
| WEBS      | 2x4 SP No.3(flat) |           |   |
| OTHERS    | 2x4 SP No.3(flat) |           |   |

| REACTIONS | (lb/size) | 13=1163/ Mechanical, (min. 0-1-8), 22=1213/0-3-8, (min. 0-1-8) |
|-----------|-----------|--|
|           | Max Grav  | 13=1179 (LC 4), 22=1213 (LC 1)                                 |

| FORCES    | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.   |
|-----------|--|
| TOP CHORD | 2-3=-4059/0, 3-4=-4059/0, 4-5=-4059/0, 5-25=-6740/0, 6-25=-6740/0, 6-7=-6111/0, 7-8=-6165/0, 8-9=-5275/0, 9-10=-3700/0, 10-11=-3700/0                          |
| BOT CHORD | 21-22=0/1861, 20-21=0/4059, 19-20=0/6618, 18-19=0/6585, 17-18=0/6585, 16-17=0/5835, 15-16=0/5835, 14-15=0/4654, 13-14=0/2845                                   |
| WEBS      | 3-21=-1260/0, 4-20=0/586, 2-22=-2150/0, 11-13=-2997/0, 11-14=0/1089, 9-14=-1213/0, 9-15=0/788, 8-15=-711/0, 8-17=0/420, 6-17=-520/0, 5-20=-2794/0, 2-21=0/2865 |

- NOTES**
- Unbalanced floor live loads have been considered for this design.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 7-8-12 from the left end to connect truss(es) to back face of top chord.
  - Fill all nail holes where hanger is in contact with lumber.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

| LOAD CASE(S) | Standard  |
|--------------|---|
| 1)           | Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 |
|              | Uniform Loads (lb/ft)   |
|              | Vert: 13-22=-10, 1-12=-100  |
|              | Concentrated Loads (lb)   |
|              | Vert: 25=-216 (B)   |



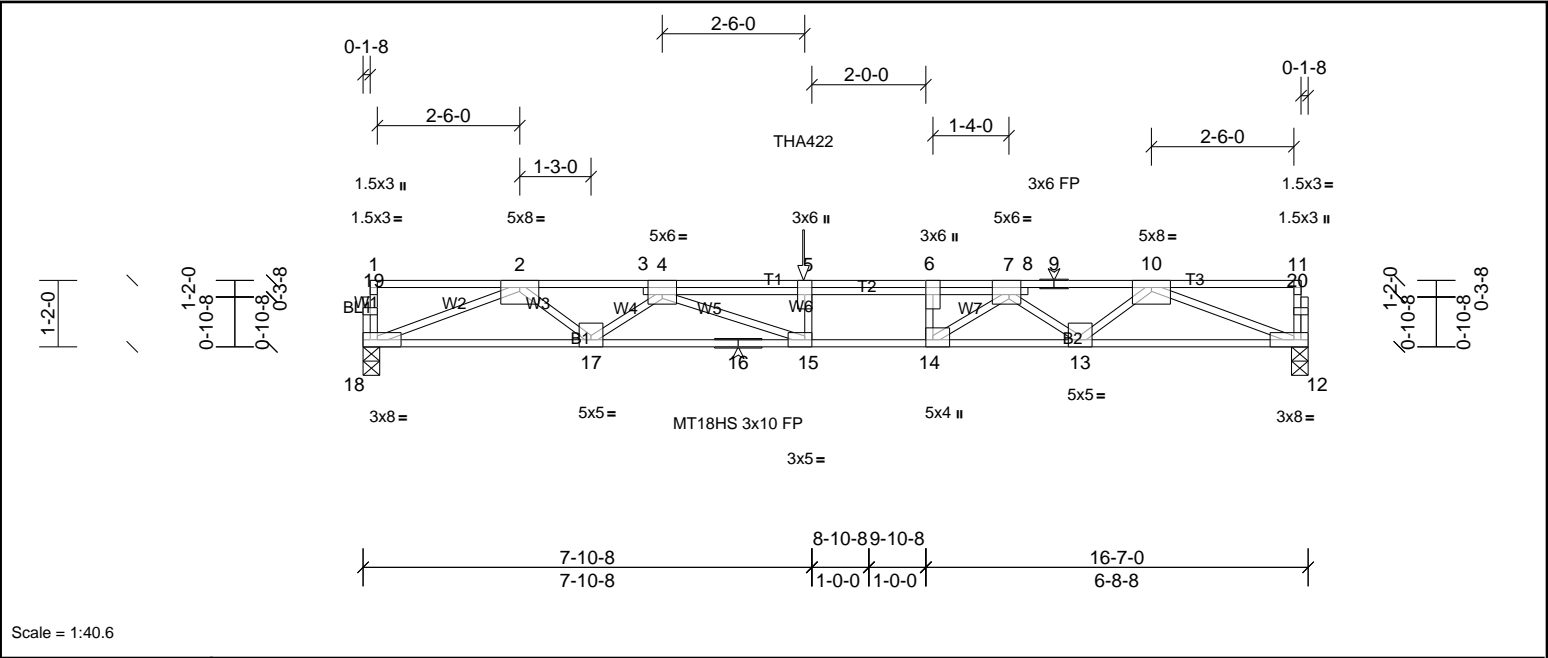
|          |       |            |     |     |                             |
|----------|-------|------------|-----|-----|-----------------------------|
| Job      | Truss | Truss Type | Qty | Ply | MUNGO HOMES-RUSSELL 2ND FLR |
| 72503908 | FG2   | Truss      | 1   | 1   | Job Reference (optional)    |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry

Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Mon Feb 10 13:39:22

Page: 1

ID:9wPDsvsVaW4cYkLCLVRSonyE\_LD-\_E7fQYf5\_05yQXq?fWrAyI0NmijUfi4EZxkfkdmXqZ



Scale = 1:40.6

|                       |  |
|-----------------------|--|
| Plate Offsets (X, Y): | [4:0-3-0,Edge], [6:0-3-0,Edge], [7:0-2-8,Edge], [14:0-1-8,Edge], [15:0-1-8,Edge] |
|-----------------------|--|

| Loading | (psf) | Spacing         | 2-0-0           | CSI       | DEFL | in       | (loc) | I/defl | L/d  | PLATES | GRIP          |                 |
|---------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC        | 0.91 | Vert(LL) | -0.26 | 15-17  | >764 | 480    | MT18HS        | 244/190         |
| TCDL    | 30.0  | Lumber DOL      | 1.00            | BC        | 0.77 | Vert(CT) | -0.45 | 15-17  | >435 | 360    | MT20          | 244/190         |
| BCLL    | 0.0   | Rep Stress Incr | NO              | WB        | 0.84 | Horz(CT) | 0.08  | 12     | n/a  | n/a    |               |                 |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-SH |      |          |       |        |      |        | Weight: 89 lb | FT = 20%F, 11%E |

| LUMBER    |                   | BRACING   |  |
|-----------|-------------------|-----------|--|
| TOP CHORD | 2x4 SP No.1(flat) | TOP CHORD | Structural wood sheathing directly applied or 4-10-5 oc purlins, except end verticals. |
| BOT CHORD | 2x4 SP SS(flat)   | BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.                                   |
| WEBS      | 2x4 SP No.3(flat) |           |  |
| OTHERS    | 2x4 SP No.3(flat) |           |  |

| REACTIONS | (lb/size)  | 12=1299/0-3-8, (min. 0-1-8), 18=1310/0-3-8, (min. 0-1-8) |
|-----------|--|--|
| FORCES    | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.   |  |
| TOP CHORD | 2-3=-3825/0, 3-4=-3798/0, 4-5=-5674/0, 5-6=-5674/0, 6-7=-5674/0, 7-8=-3718/0, 8-9=-3749/0, 9-10=-3749/0                                |  |
| BOT CHORD | 17-18=0/2873, 16-17=0/4772, 15-16=0/4772, 14-15=0/5674, 13-14=0/4681, 12-13=0/2851   |  |
| WEBS      | 5-15=-353/0, 6-14=-803/0, 10-12=-3058/0, 10-13=0/1169, 7-13=-1184/0, 7-14=0/1564, 2-18=-3081/0, 2-17=0/1239, 4-17=-1203/0, 4-15=0/1071 |  |

- NOTES**
- Unbalanced floor live loads have been considered for this design.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 7-8-12 from the left end to connect truss(es) to front face of top chord.
  - Fill all nail holes where hanger is in contact with lumber.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

| LOAD CASE(S)   | Standard |
|--|----------|
| 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 |          |
| Uniform Loads (lb/ft)  |          |
| Vert: 12-18=-10, 1-11=-140   |          |
| Concentrated Loads (lb)  |          |
| Vert: 5=-176 (F)   |          |



This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



|          |       |            |     |     |                             |
|----------|-------|------------|-----|-----|-----------------------------|
| Job      | Truss | Truss Type | Qty | Ply | MUNGO HOMES-RUSSELL 2ND FLR |
| 72503908 | FG3   | Truss      | 1   | 1   | Job Reference (optional)    |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry

Run: 8.810 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Mon Feb 10 13:39:22

Page: 1

ID:2YMeRnnRhJzYswzaSXeE7TyE?I?-\_E7fQYf5\_05yQXq?fWRAyl0b3irIfudEZxkfkdmXqZ

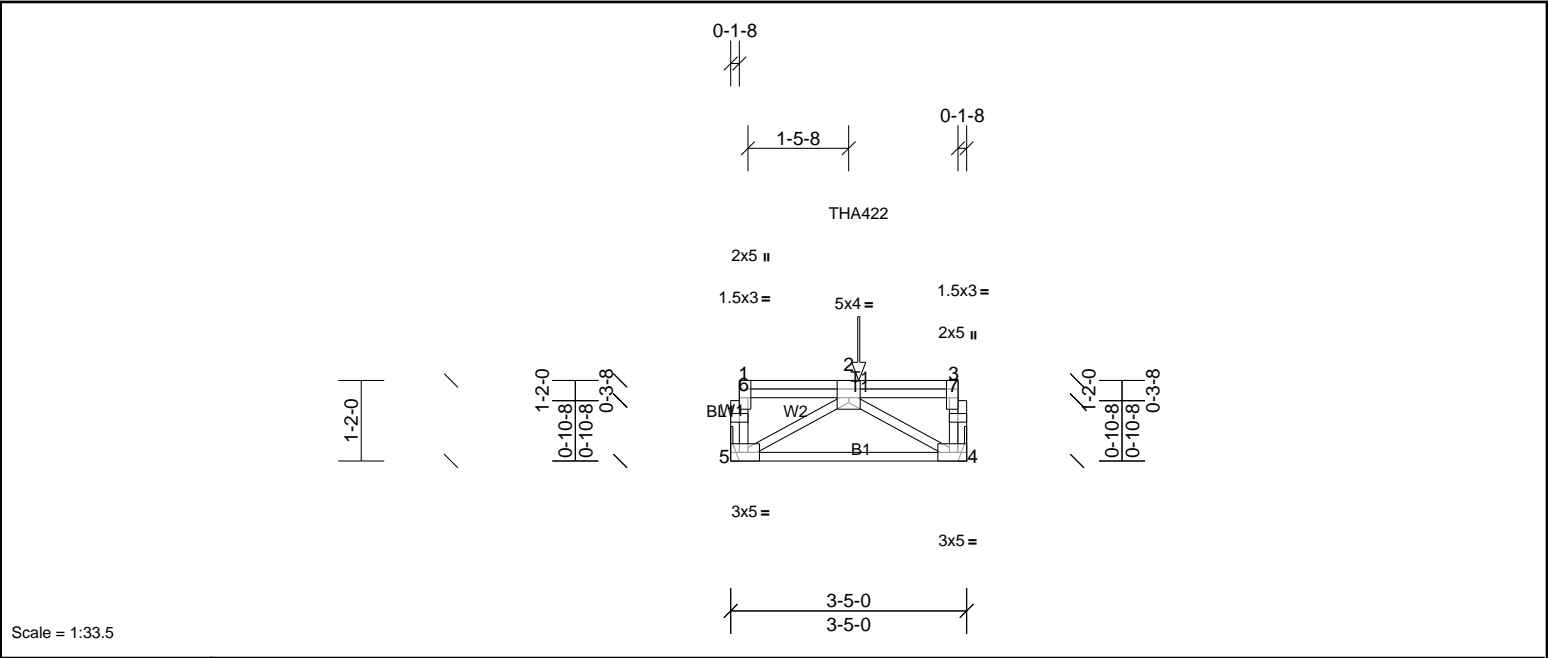


Plate Offsets (X, Y): [2:0-2-0,Edge], [3:0-3-0,Edge], [4:0-2-0,Edge], [5:0-2-0,Edge]

| Loading | (psf) | Spacing         | 2-0-0           | CSI      |      | DEFL     | in    | (loc) | I/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC       | 0.05 | Vert(LL) | n/a   | -     | n/a    | 999 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC       | 0.20 | Vert(CT) | -0.02 | 4-5   | >999   | 360 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | NO              | WB       | 0.10 | Horz(CT) | 0.00  | 4     | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-P |      |          |       |       |        |     | Weight: 24 lb | FT = 20%F, 11%E |

| LUMBER    |                   | BRACING   |   |
|-----------|-------------------|-----------|---|
| TOP CHORD | 2x4 SP No.2(flat) | TOP CHORD | Structural wood sheathing directly applied or 3-5-0 oc purlins, except end verticals. |
| BOT CHORD | 2x4 SP No.2(flat) | BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |
| WEBS      | 2x4 SP No.3(flat) |           |   |
| OTHERS    | 2x4 SP No.3(flat) |           |   |

| REACTIONS | (lb/size)  | 4=316/ Mechanical, (min. 0-1-8), 5=316/ Mechanical, (min. 0-1-8) |
|-----------|--|--|
| FORCES    | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |  |
| BOT CHORD | 4-5=0/376  |  |
| WEBS      | 2-4=-437/0, 2-5=-437/0   |  |

- NOTES**
- 1) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/ TPI 1.
  - 2) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 3) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 1-10-4 from the left end to connect truss(es) to front face of top chord.
  - 4) Fill all nail holes where hanger is in contact with lumber.
  - 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

| LOAD CASE(S)   | Standard |
|--|----------|
| 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 |          |
| Uniform Loads (lb/ft)  |          |
| Vert: 4-5=-10, 1-3=-100  |          |
| Concentrated Loads (lb)  |          |
| Vert: 2=-297 (F)   |          |







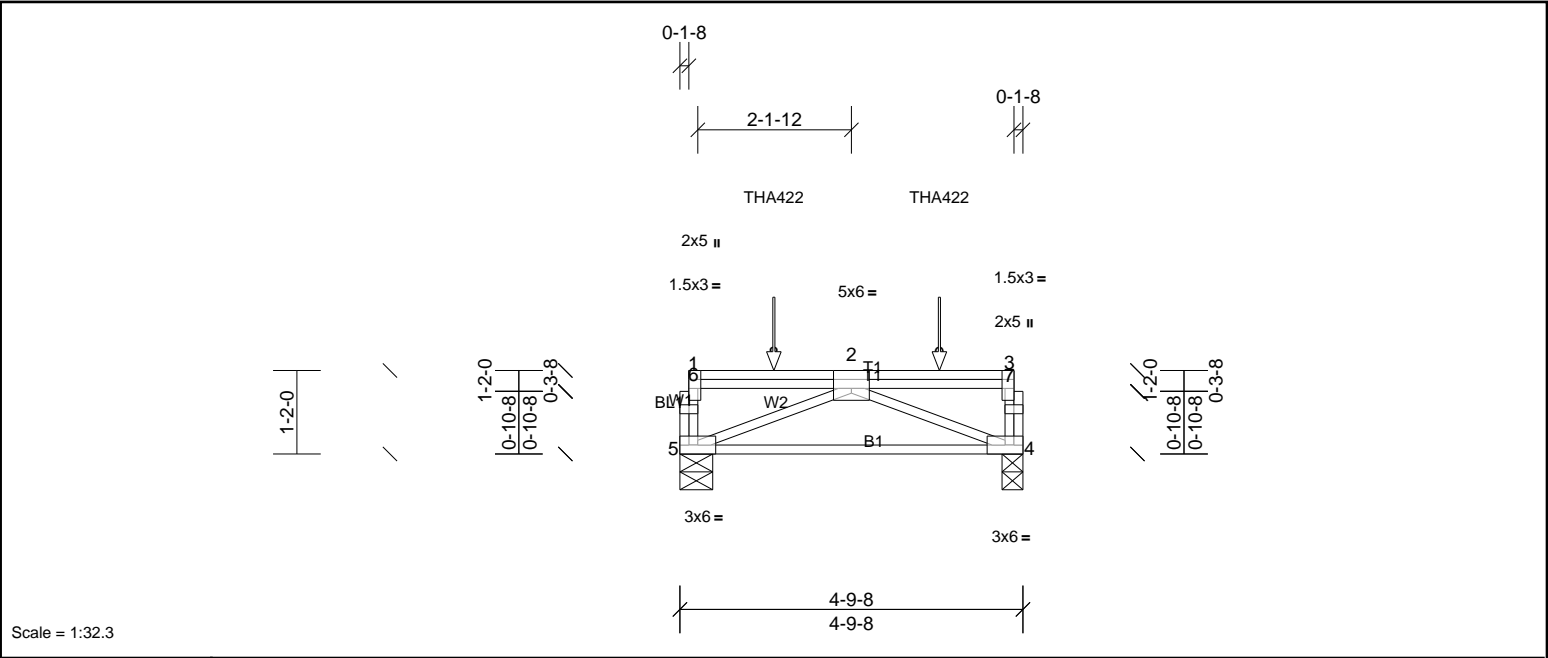
|          |       |            |     |     |                             |
|----------|-------|------------|-----|-----|-----------------------------|
| Job      | Truss | Truss Type | Qty | Ply | MUNGO HOMES-RUSSELL 2ND FLR |
| 72503908 | FG5   | Truss      | 1   | 1   | Job Reference (optional)    |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry

Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Mon Feb 10 13:39:23

Page: 1

ID:5QsKfPUOdLX8ZxMONo8?X\_yE?DD-TRh1eugklJDp2hPCDEMPVyZYe61tODFNnBTCH4zmXqY



Scale = 1:32.3

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

| Loading | (psf) | Spacing         | 2-0-0           | CSI      | DEFL | in       | (loc) | I/defl | L/d  | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|----------|------|----------|-------|--------|------|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC       | 0.90 | Vert(LL) | n/a   | -      | n/a  | 999           | 244/190         |
| TCDL    | 30.0  | Lumber DOL      | 1.00            | BC       | 0.82 | Vert(CT) | -0.07 | 4-5    | >785 | 360           |                 |
| BCLL    | 0.0   | Rep Stress Incr | NO              | WB       | 0.59 | Horz(CT) | 0.02  | 4      | n/a  | n/a           |                 |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-P |      |          |       |        |      |               |                 |
|         |       |                 |                 |          |      |          |       |        |      | Weight: 32 lb | FT = 20%F, 11%E |

| LUMBER    |                   | BRACING   |   |
|-----------|-------------------|-----------|---|
| TOP CHORD | 2x4 SP No.1(flat) | TOP CHORD | Structural wood sheathing directly applied or 4-9-8 oc purlins, except end verticals. |
| BOT CHORD | 2x4 SP No.2(flat) | BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |
| WEBS      | 2x4 SP No.3(flat) |           |   |
| OTHERS    | 2x4 SP No.3(flat) |           |   |

REACTIONS (lb/size) 4=1542/0-3-8, (min. 0-1-8), 5=1466/0-5-8, (min. 0-1-8)

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

TOP CHORD 5-6=-529/0, 1-6=-528/0, 4-7=-607/0, 3-7=-606/0

BOT CHORD 4-5=0/2157

WEBS 2-5=-2313/0, 2-4=-2307/0

NOTES

- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 2-3-12 oc max. starting at 1-3-12 from the left end to 3-7-8 to connect truss(es) to back face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

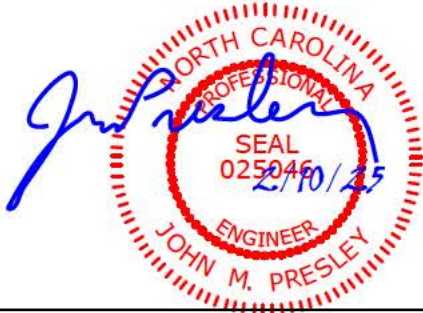
- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 4-5=-10, 1-3=-140

Concentrated Loads (lb)

Vert: 8=-1172 (B), 9=-1173 (B)



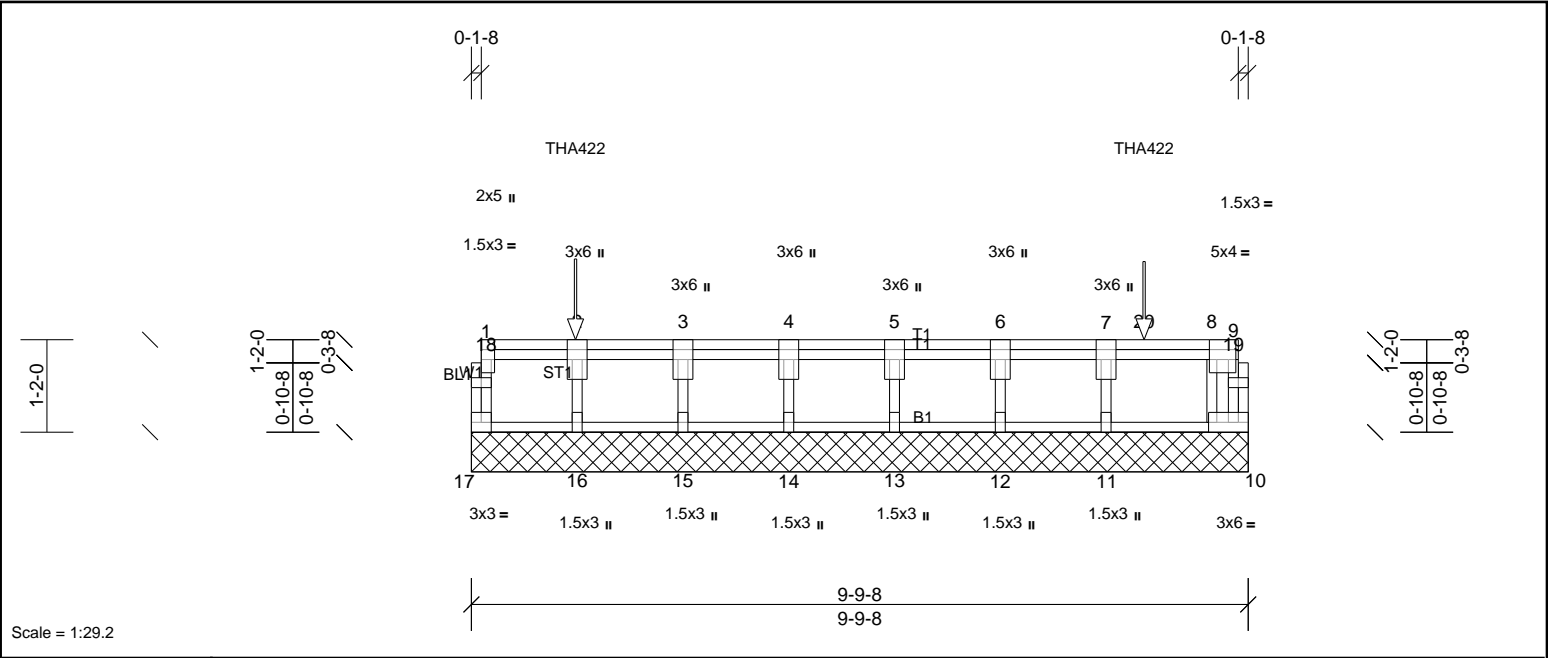
|          |       |            |     |     |                             |
|----------|-------|------------|-----|-----|-----------------------------|
| Job      | Truss | Truss Type | Qty | Ply | MUNGO HOMES-RUSSELL 2ND FLR |
| 72503908 | FG6   | Truss      | 1   | 1   | Job Reference (optional)    |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry

Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Mon Feb 10 13:39:23

Page: 1

ID:6kHpOvkk48bceYi?wZjoaTyE\_Io-TRh1eugklJdp2hPCDEMPVyZhH6BhOITNnBTCH4zmXqY



Scale = 1:29.2

Plate Offsets (X, Y): [9'-0"-2'-0", Edge]

| Loading | (psf) | Spacing         | 2-0-0           | CSI      | DEFL | in        | (loc) | I/defl | L/d | PLATES | GRIP          |                 |
|---------|-------|-----------------|-----------------|----------|------|-----------|-------|--------|-----|--------|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC       | 0.34 | Vert(LL)  | n/a   | -      | n/a | 999    | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC       | 0.13 | Vert(TL)  | n/a   | -      | n/a | 999    |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | NO              | WB       | 0.26 | Horiz(TL) | 0.00  | 10     | n/a | n/a    |               |                 |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-R |      |           |       |        |     |        | Weight: 56 lb | FT = 20%F, 11%E |

|               |                   |                |  |
|---------------|-------------------|----------------|--|
| <b>LUMBER</b> |                   | <b>BRACING</b> |  |
| TOP CHORD     | 2x4 SP No.2(flat) | TOP CHORD      | Structural wood sheathing directly applied or 6'-0"-0" oc purlins, except end verticals. |
| BOT CHORD     | 2x4 SP No.2(flat) | BOT CHORD      | Rigid ceiling directly applied or 10'-0"-0" oc bracing.                                  |
| WEBS          | 2x4 SP No.3(flat) |                |  |
| OTHERS        | 2x4 SP No.3(flat) |                |  |

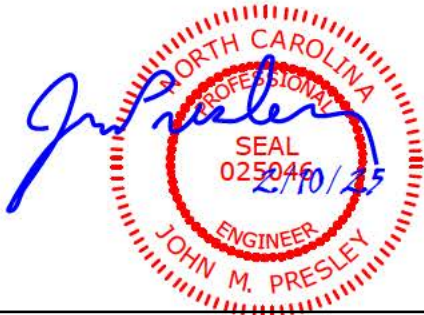
**REACTIONS** All bearings 9'-9"-8.  
(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 12, 13, 14, 15, 17 except 10=274 (LC 1), 11=751 (LC 1), 16=1127 (LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-16=-1134/0, 7-11=-723/0, 8-10=-313/0

- NOTES**
- 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 6) Recommend 2x6 strongbacks, on edge, spaced at 10'-0"-0" oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 7) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 7'-2"-0" oc max. starting at 1'-3"-12 from the left end to 8'-5"-12 to connect truss(es) to back face of top chord.
  - 8) Fill all nail holes where hanger is in contact with lumber.
  - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 10-17=-10, 1-9=-100  
Concentrated Loads (lb)  
Vert: 2=-1079 (B), 20=-690 (B)



This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



|          |       |            |     |     |                             |
|----------|-------|------------|-----|-----|-----------------------------|
| Job      | Truss | Truss Type | Qty | Ply | MUNGO HOMES-RUSSELL 2ND FLR |
| 72503908 | FG7   | Truss      | 1   | 1   | Job Reference (optional)    |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry

Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Mon Feb 10 13:39:23

Page: 1

ID:Y?I0TELA5G72hK6FRQkx8OyE?ZL-TRh1eugklJp2hPCDEMPVyZgg6?gO7TNnBTCH4zmXqY

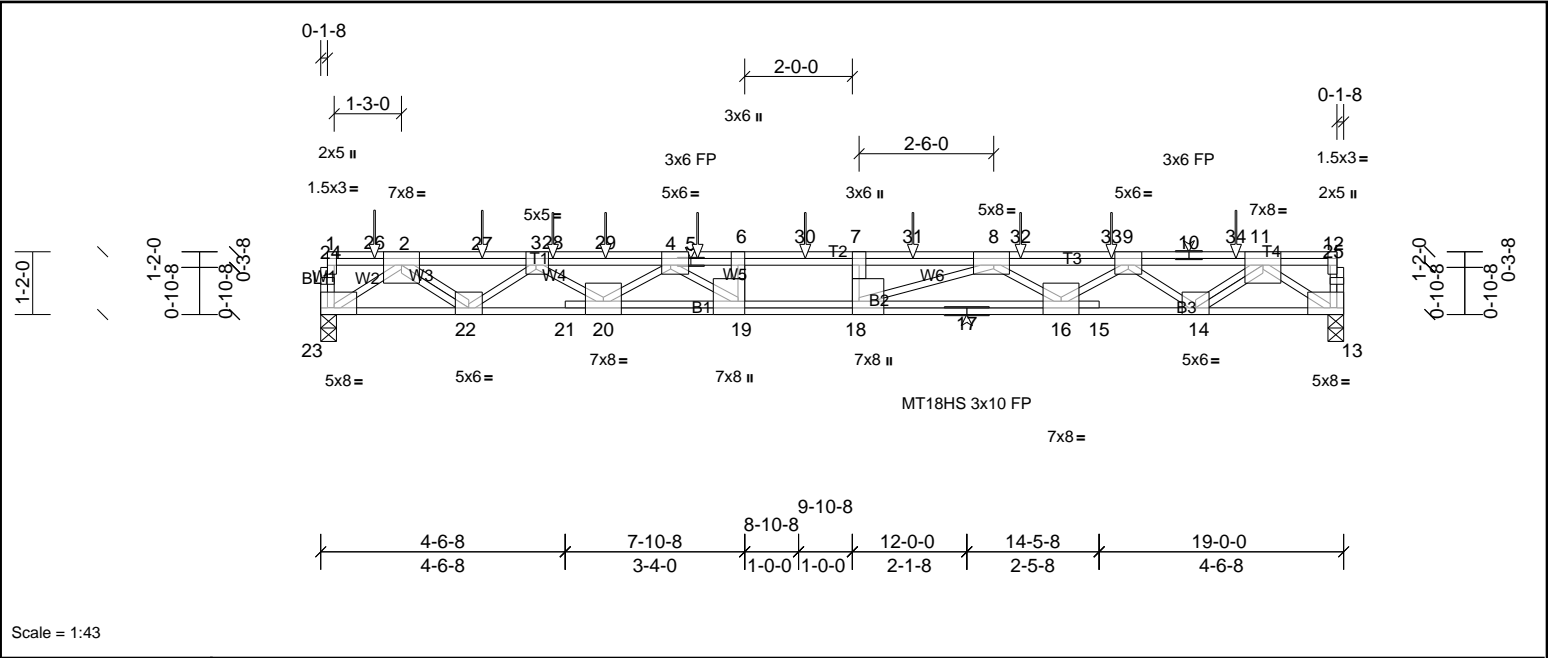


Plate Offsets (X, Y): [3:0-2-4,Edge], [4:0-2-0,Edge], [7:0-3-0,Edge], [8:0-3-8,Edge], [9:0-3-0,Edge], [12:0-3-0,Edge], [13:Edge,0-1-8], [18:0-3-0,Edge], [19:0-3-0,Edge], [23:Edge,0-1-8]

| Loading | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | I/defl | L/d | PLATES         | GRIP            |
|---------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC        | 0.44 | Vert(LL) | -0.38 | 16-18 | >596   | 480 | MT18HS         | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC        | 0.90 | Vert(CT) | -0.52 | 16-18 | >430   | 360 | MT20           | 244/190         |
| BCLL    | 0.0   | Rep Stress Incr | NO              | WB        | 0.96 | Horz(CT) | 0.10  | 13    | n/a    | n/a |                |                 |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-SH |      |          |       |       |        |     | Weight: 137 lb | FT = 20%F, 11%E |

| LUMBER   | BRACING   |
|--|---|
| TOP CHORD 2x4 SP SS(flat)  | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP SS(flat)  | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |
| WEBS 2x4 SP No.3(flat)   |   |
| OTHERS 2x4 SP No.3(flat)   |   |
| REACTIONS (lb/size) 13=1612/0-3-8, (min. 0-1-8), 23=1805/0-3-8, (min. 0-1-8) |   |
| Max Grav 13=1667 (LC 4), 23=1900 (LC 3)                                      |   |

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

TOP CHORD 2-27=-3976/0, 3-27=-3976/0, 3-28=-6616/0, 28-29=-6616/0, 4-29=-6616/0, 4-5=-8322/0, 5-6=-8322/0, 6-30=-8322/0, 7-30=-8322/0, 7-31=-8322/0, 8-31=-8322/0, 8-32=-6389/0, 32-33=-6389/0, 9-33=-6389/0, 9-10=-3674/0, 10-34=-3674/0, 11-34=-3674/0

BOT CHORD 22-23=0/2547, 21-22=0/5702, 20-21=0/5687, 19-20=0/7655, 18-19=0/8322, 17-18=0/7444, 16-17=0/7444, 15-16=0/5291, 14-15=0/5303, 13-14=0/2345

WEBS 6-19=-691/41, 7-18=-481/0, 2-23=-3073/0, 2-22=0/1910, 3-22=-2156/0, 3-20=0/1255, 4-20=-1361/0, 4-19=-186/1779, 11-13=-2837/0, 11-14=0/1783, 9-14=-2043/0, 9-16=0/1425, 8-16=-1308/0, 8-18=-68/2019

- NOTES (7)**
- Unbalanced floor live loads have been considered for this design.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0-0 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.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 279 lb down at 1-0-0, 277 lb down at 3-0-0, 191 lb down and 103 lb up at 4-3-12, 191 lb down and 103 lb up at 5-3-8, 191 lb down and 103 lb up at 7-0-0, 191 lb down and 103 lb up at 9-0-0, 191 lb down and 103 lb up at 11-0-0, 191 lb down and 103 lb up at 13-0-0, and 191 lb down and 103 lb up at 14-8-4, and 277 lb down at 17-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
  - F210 trusses may be attached to 2 or more ply top chord of 19" maximum depth flat truss girder with Simpson THA422 or equal. Follow Simpson instructions for installation. In addition, install 2x4 #2 SPF in top chord notch and attach to double top chord of girder with two-16d nails each side of carried truss
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (lb/ft)
- Vert: 13-23=-10, 1-12=-100
- Concentrated Loads (lb)
- Vert: 5=-111 (F), 26=-205 (F), 27=-194 (F), 28=-111 (F), 29=-111 (F), 30=-111 (F), 31=-111 (F), 32=-111 (F), 33=-111 (F), 34=-194 (F)



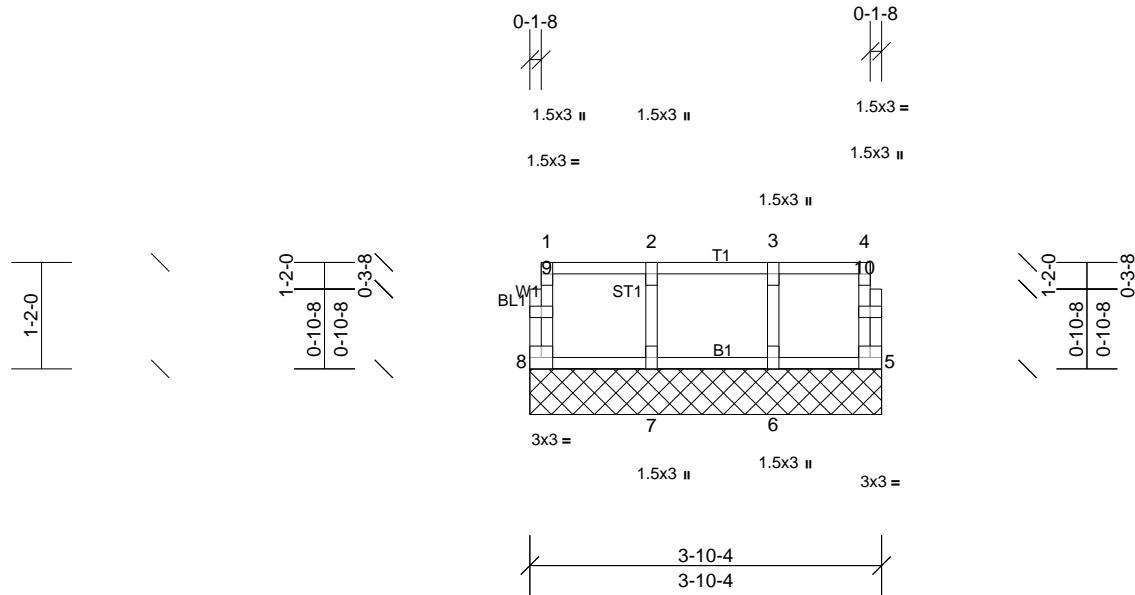
|          |       |            |     |     |                             |
|----------|-------|------------|-----|-----|-----------------------------|
| Job      | Truss | Truss Type | Qty | Ply | MUNGO HOMES-RUSSELL 2ND FLR |
| 72503908 | K200  | Truss      | 1   | 1   | Job Reference (optional)    |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry

Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Mon Feb 10 13:39:23

Page: 1

ID:CbG\_smdatNq2sB0GtOPKq\_zFLKI-TRh1eugkJDp2hPCDEMPVyZIV6DWOM0NnBTCH4zmXqY



Scale = 1:25.4

| Loading | (psf) | Spacing         | 2-0-0           | CSI      |      | DEFL      | in   | (loc) | I/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC       | 0.07 | Vert(LL)  | n/a  | -     | n/a    | 999 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC       | 0.01 | Vert(TL)  | n/a  | -     | n/a    | 999 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB       | 0.03 | Horiz(TL) | 0.00 | 5     | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-R |      |           |      |       |        |     | Weight: 19 lb | FT = 20%F, 11%E |

LUMBER

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

REACTIONS

All bearings 3-10-4.  
(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 5, 6, 7, 8

FORCES

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

NOTES

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

BRACING

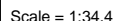
TOP CHORD Structural wood sheathing directly applied or 3-10-4 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.



This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Mon Feb 10 13:39:23 Page: 1  
ID:KdulQDGrBdiGp0wrtN5mDPyE?Y9-TRh1eugklJDp2hPCDEMPvYzIT6DYOMNnBTCH4zmXqY



| LUMBER    |                   | BRACING   |  |
|-----------|-------------------|-----------|--|
| TOP CHORD | 2x4 SP No.2(flat) | TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end |
| BOT CHORD | 2x4 SP No.2(flat) |           | verticals.   |
| WEBS      | 2x4 SP No.3(flat) | BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.                       |
| OTHERS    | 2x4 SP No.3(flat) |           |  |

|                  |   |
|------------------|---|
| <b>REACTIONS</b> | All bearings 13-3-8.  |
| (lb) - Max Grav  | All reactions 250 (lb) or less at joint(s) 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 |

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

## NOTES

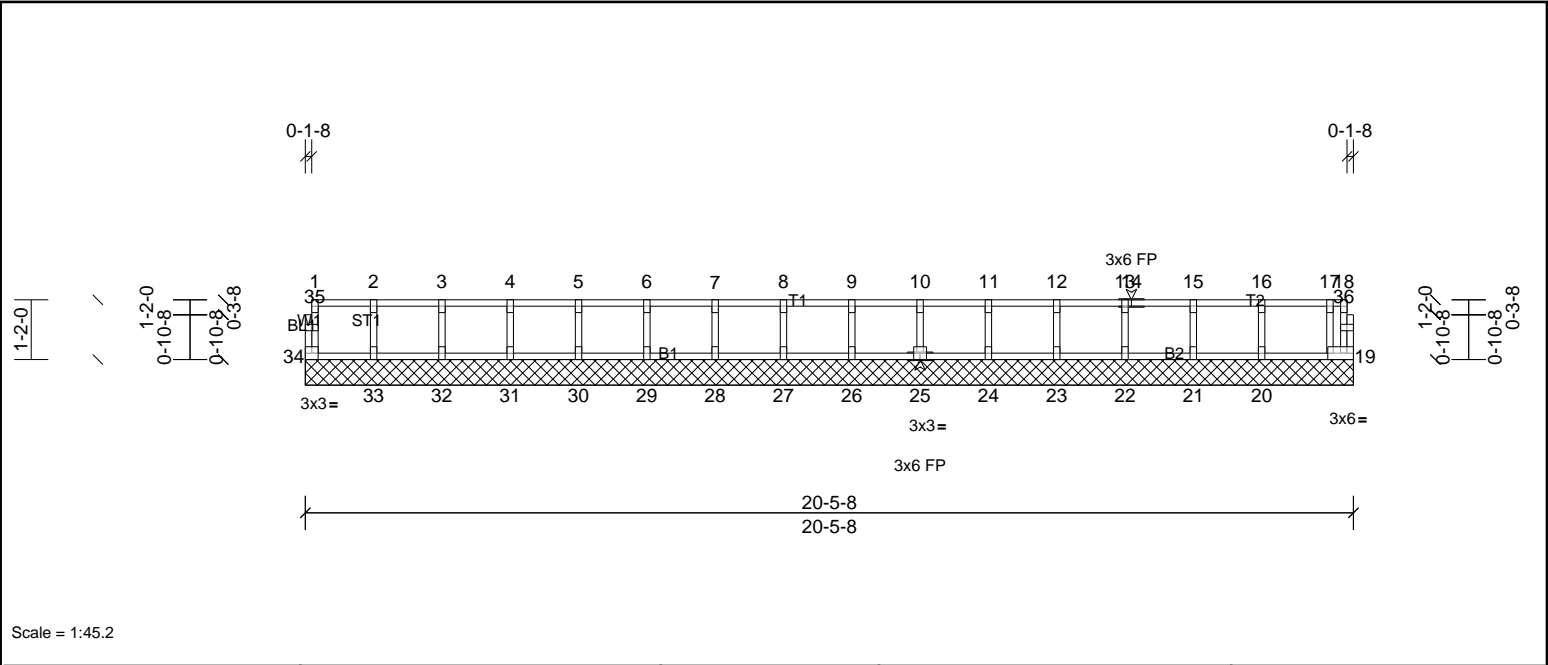
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



|          |       |            |     |     |                             |
|----------|-------|------------|-----|-----|-----------------------------|
| Job      | Truss | Truss Type | Qty | Ply | MUNGO HOMES-RUSSELL 2ND FLR |
| 72503908 | K202  | Truss      | 1   | 1   | Job Reference (optional)    |



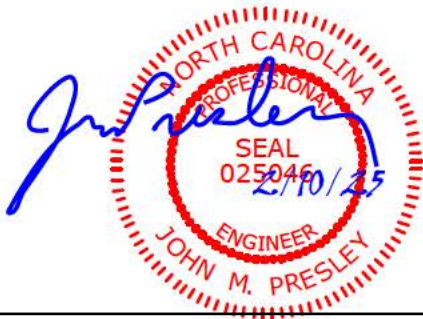
| Loading | (psf) | Spacing         | 2-0-0           | CSI      | DEFL | in        | (loc) | l/defl | L/d | PLATES | GRIP          |                 |
|---------|-------|-----------------|-----------------|----------|------|-----------|-------|--------|-----|--------|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC       | 0.09 | Vert(LL)  | n/a   | -      | n/a | 999    | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC       | 0.03 | Vert(TL)  | n/a   | -      | n/a | 999    |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB       | 0.03 | Horiz(TL) | 0.00  | 19     | n/a | n/a    |               |                 |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-R |      |           |       |        |     |        | Weight: 86 lb | FT = 20%F, 11%E |

| LUMBER                      | BRACING   |
|-----------------------------|---|
| TOP CHORD 2x4 SP No.2(flat) | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2(flat) | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |
| WEBS 2x4 SP No.3(flat)      |   |
| OTHERS 2x4 SP No.3(flat)    |   |

| REACTIONS       | All bearings 20-5-8.  |
|-----------------|---|
| (lb) - Max Grav | All reactions 250 (lb) or less at joint(s) 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34 |

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

- NOTES**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 2) 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.





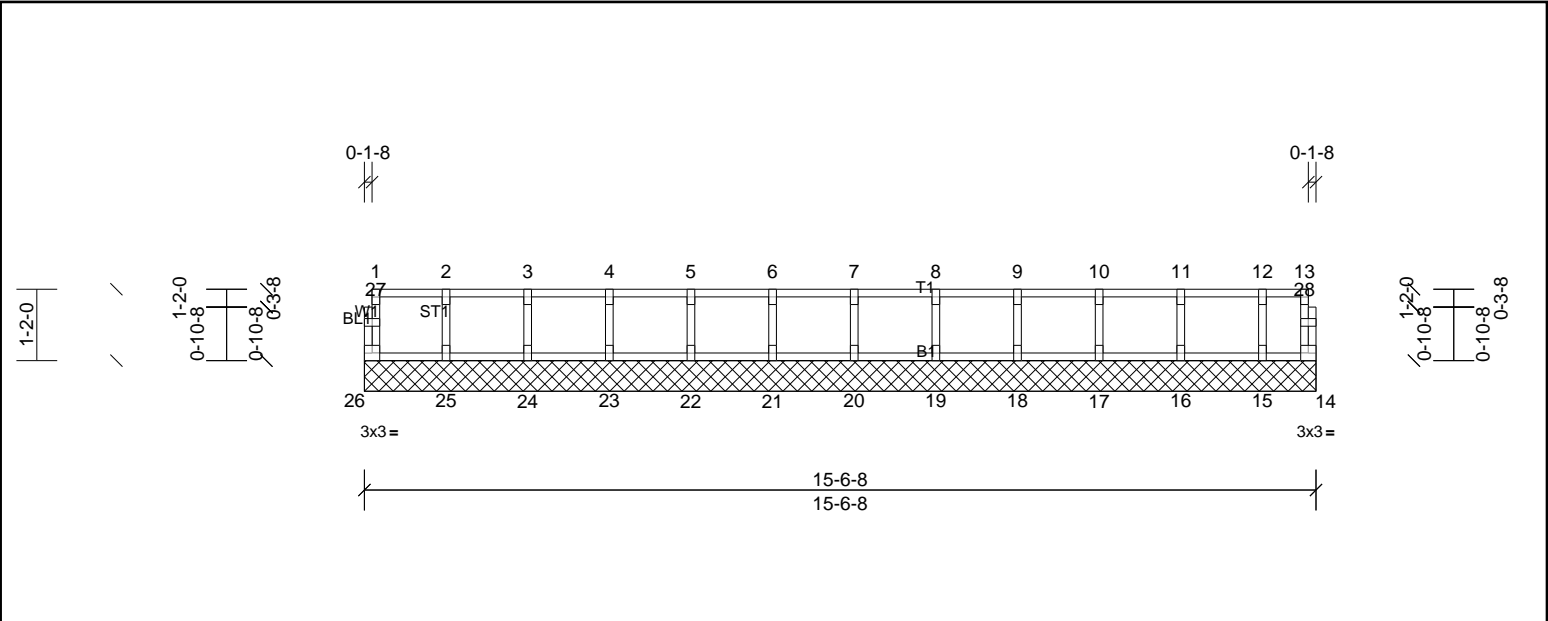
|          |       |            |     |     |                             |
|----------|-------|------------|-----|-----|-----------------------------|
| Job      | Truss | Truss Type | Qty | Ply | MUNGO HOMES-RUSSELL 2ND FLR |
| 72503908 | K203  | Truss      | 1   | 1   | Job Reference (optional)    |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry

Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Mon Feb 10 13:39:24

Page: 1

ID:hOGwAMxz?qlKXdCc985uVDyE?XH-xfQrEhMWdLggr\_Omhte2A5w9WZi7pFW0rDmpWzmXqX



Scale = 1:37.8

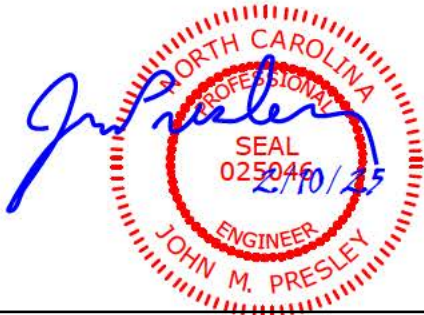
| Loading | (psf) | Spacing         | 2-0-0           | CSI      | DEFL | in        | (loc) | I/defl | L/d | PLATES | GRIP          |                 |
|---------|-------|-----------------|-----------------|----------|------|-----------|-------|--------|-----|--------|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC       | 0.08 | Vert(LL)  | n/a   | -      | n/a | 999    | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC       | 0.02 | Vert(TL)  | n/a   | -      | n/a | 999    |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB       | 0.03 | Horiz(TL) | 0.00  | 14     | n/a | n/a    |               |                 |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-R |      |           |       |        |     |        | Weight: 66 lb | FT = 20%F, 11%E |

| LUMBER                      | BRACING   |
|-----------------------------|---|
| TOP CHORD 2x4 SP No.2(flat) | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2(flat) | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |
| WEBS 2x4 SP No.3(flat)      |   |
| OTHERS 2x4 SP No.3(flat)    |   |

**REACTIONS** All bearings 15-6-8.  
(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26

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

- NOTES**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 2) 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



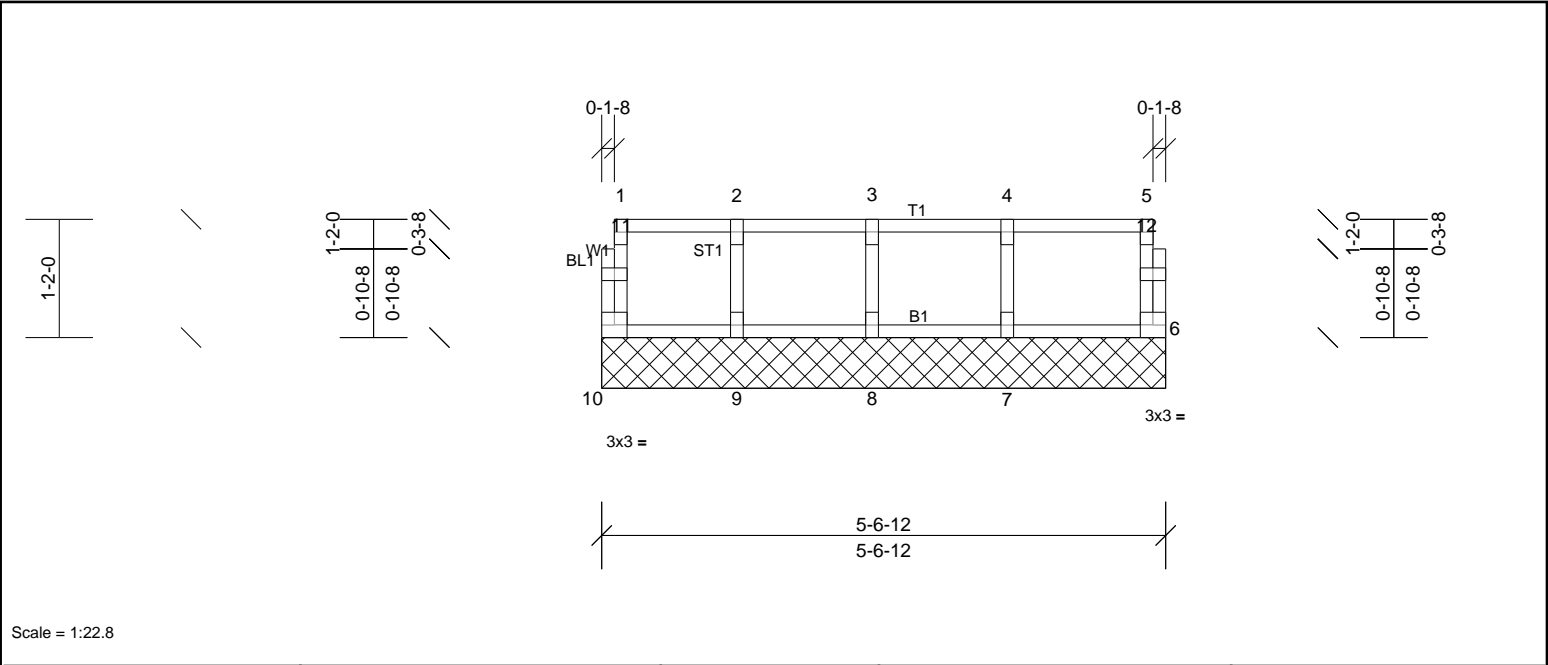
|          |       |            |     |     |                             |
|----------|-------|------------|-----|-----|-----------------------------|
| Job      | Truss | Truss Type | Qty | Ply | MUNGO HOMES-RUSSELL 2ND FLR |
| 72503908 | K204  | Truss      | 1   | 1   | Job Reference (optional)    |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry

Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Mon Feb 10 13:39:24

Page: 1

ID:CbG\_smdatNq2sB0GtOPKq\_zFLKI-xdFQrEhMWdLggr\_Omxe2A5wzWZd7pEW0rDmpWzmXqX



| Loading | (psf) | Spacing         | 2-0-0           | CSI      |      | DEFL      | in   | (loc) | l/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC       | 0.09 | Vert(LL)  | n/a  | -     | n/a    | 999 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC       | 0.02 | Vert(TL)  | n/a  | -     | n/a    | 999 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB       | 0.03 | Horiz(TL) | 0.00 | 6     | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-R |      |           |      |       |        |     | Weight: 25 lb | FT = 20%F, 11%E |

| LUMBER    |                   | BRACING   |  |
|-----------|-------------------|-----------|--|
| TOP CHORD | 2x4 SP No.2(flat) | TOP CHORD | Structural wood sheathing directly applied or 5-6-12 oc purlins, except end verticals. |
| BOT CHORD | 2x4 SP No.2(flat) | BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.                                   |
| WEBS      | 2x4 SP No.3(flat) |           |  |
| OTHERS    | 2x4 SP No.3(flat) |           |  |

**REACTIONS** All bearings 5-6-12.  
(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 6, 7, 8, 9, 10

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

- NOTES**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 2) 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

