

|                   |               |                     |          |          |                          |
|-------------------|---------------|---------------------|----------|----------|--------------------------|
| Job<br>21053233F2 | Truss<br>F200 | Truss Type<br>Truss | Qty<br>6 | Ply<br>1 | Job Reference (optional) |
|-------------------|---------------|---------------------|----------|----------|--------------------------|

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, David Gantt

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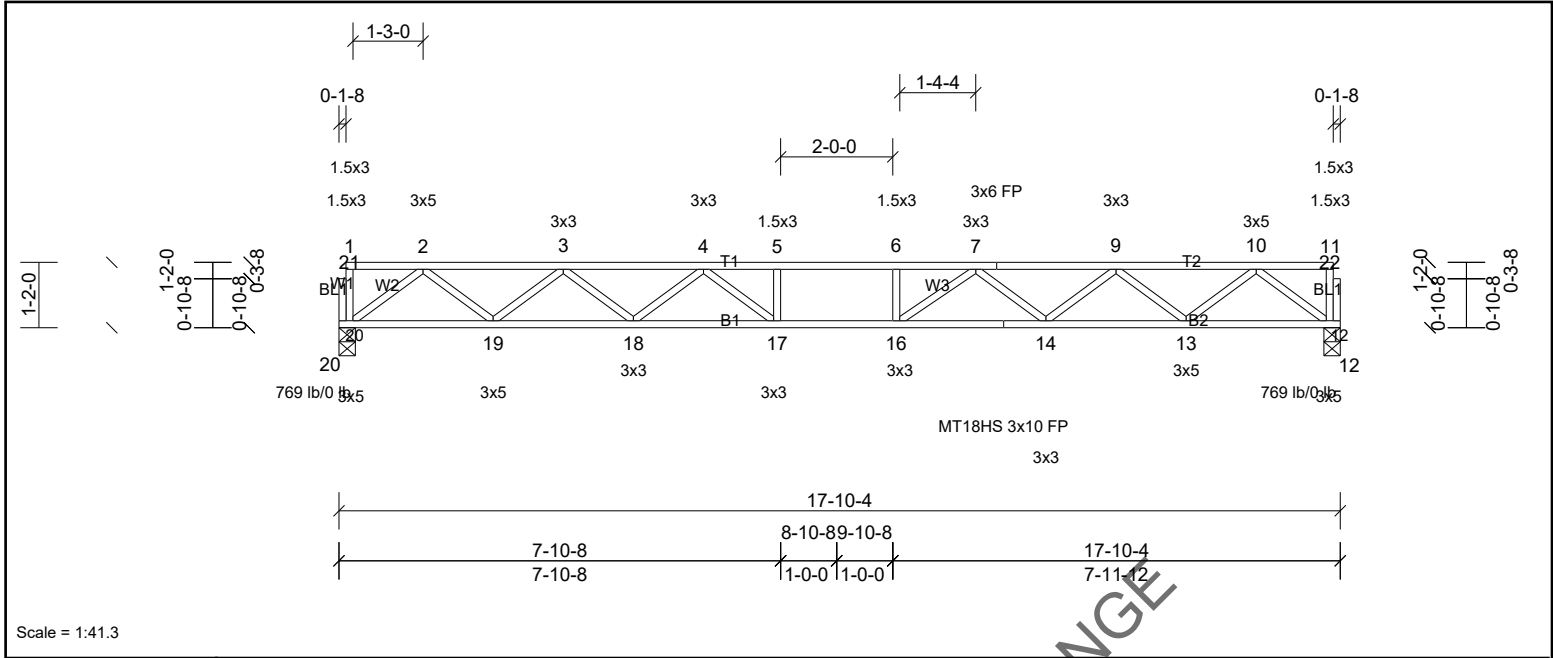


Plate Offsets (X, Y): [12:0-2-0,Edge], [20:0-2-0,Edge]

| Loading | (psf) | Spacing         | 1-7-3           | CSI       | DEFI | in       | (loc) | l/defl | L/d  | PLATES | GRIP   |                               |
|---------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|--------|-------------------------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC        | 0.58 | Vert(LL) | 0.26  | 16-17  | >825 | 480    | MT18HS | 244/190                       |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC        | 0.96 | Vert(CT) | -0.35 | 16-17  | >600 | 360    | MT20   | 244/190                       |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB        | 0.42 | Horz(CT) | 0.06  | 12     | n/a  | n/a    |        |                               |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-SH |      |          |       |        |      |        |        | Weight: 88 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 2-2-0 oc bracing.                                   |
| WEBS      | 2x4 SP No.3(flat) |           |   |
| OTHERS    | 2x4 SP No.3(flat) |           |   |

**REACTIONS** (lb/size) 12=769/0-3-8, (min. 0-1-8), 20=769/0-3-8, (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1634/0, 3-4=-2665/0, 4-5=-3231/0, 5-6=-3231/0, 6-7=-3231/0, 7-8=-2667/0, 8-9=-2667/0, 9-10=-1633/0  
 BOT CHORD 19-20=0/962, 18-19=0/2278, 17-18=0/3031, 16-17=0/3231, 15-16=0/3030, 14-15=0/3030, 13-14=0/2279, 12-13=0/962  
 WEBS 2-20=-1205/0, 2-19=0/874, 3-19=-839/0, 3-18=0/504, 4-18=-475/0, 4-17=-60/526, 10-12=-1205/0, 10-13=0/874, 9-13=-840/0, 9-14=0/506, 7-14=-473/0, 7-16=-62/522

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 3) All plates are 3x3 MT20 unless otherwise indicated.
  - 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) 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

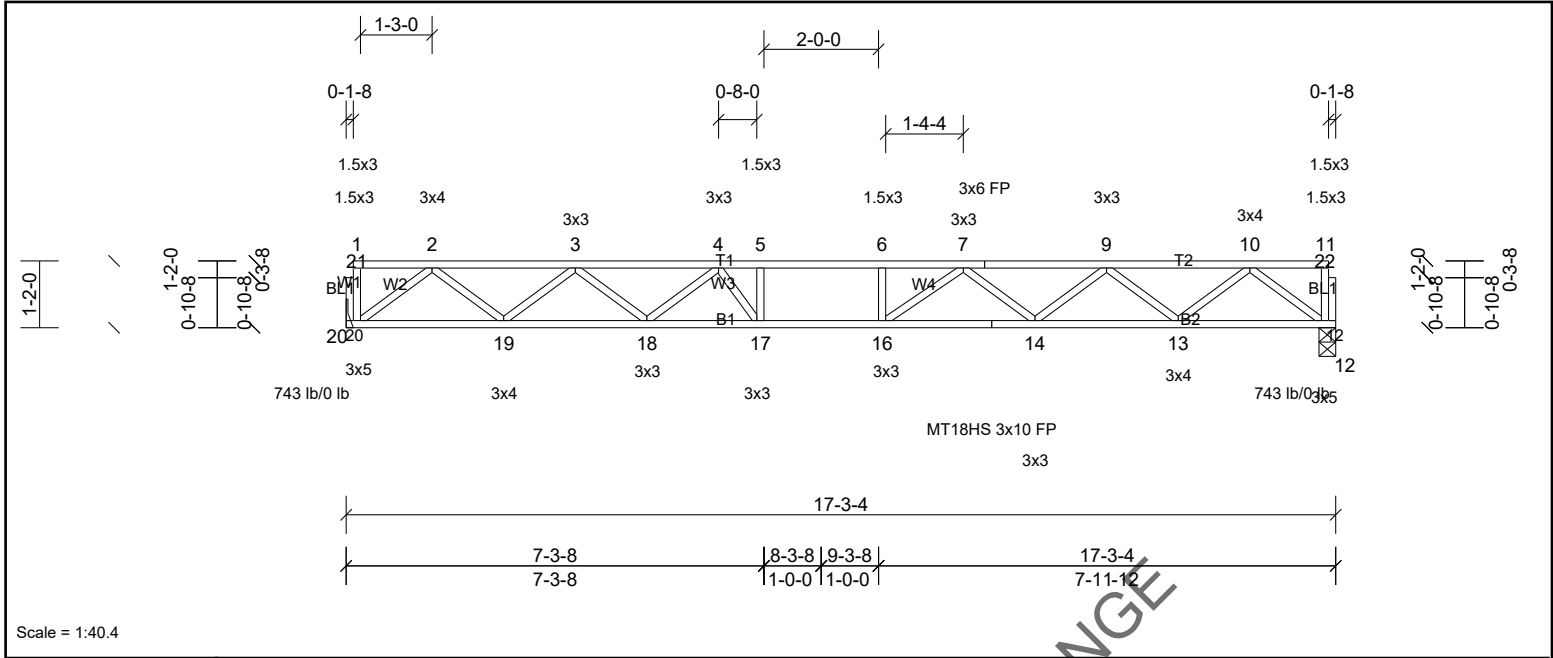
|                   |               |                     |           |          |                          |
|-------------------|---------------|---------------------|-----------|----------|--------------------------|
| Job<br>21053233F2 | Truss<br>F201 | Truss Type<br>Truss | Qty<br>13 | Ply<br>1 | Job Reference (optional) |
|-------------------|---------------|---------------------|-----------|----------|--------------------------|

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, David Gantt

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Scale = 1:40.4

|                       |                                  |                 |                 |            |      |             |       |       |        |     |               |                 |
|-----------------------|----------------------------------|-----------------|-----------------|------------|------|-------------|-------|-------|--------|-----|---------------|-----------------|
| Plate Offsets (X, Y): | [12:0-2-0,Edge], [20:0-2-0,Edge] |                 |                 |            |      |             |       |       |        |     |               |                 |
| <b>Loading</b>        | (psf)                            | <b>Spacing</b>  | 1-7-3           | <b>CSI</b> |      | <b>DEFI</b> | in    | (loc) | l/defl | L/d | <b>PLATES</b> | <b>GRIP</b>     |
| TCLL                  | 40.0                             | Plate Grip DOL  | 1.00            | TC         | 0.62 | Vert(LL)    | 0.23  | 16    | >873   | 480 | MT18HS        | 244/190         |
| TCDL                  | 10.0                             | Lumber DOL      | 1.00            | BC         | 0.94 | Vert(CT)    | -0.32 | 14-16 | >632   | 360 | MT20          | 244/190         |
| BCLL                  | 0.0                              | Rep Stress Incr | YES             | WB         | 0.49 | Horz(CT)    | 0.06  | 12    | n/a    | n/a |               |                 |
| BCDL                  | 5.0                              | Code            | IRC2015/TPI2014 | Matrix-SH  |      |             |       |       |        |     | Weight: 86 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, Except:                          |
| WEBS          | 2x4 SP No.3(flat) |                | 2-2-0 oc bracing: 16-17,14-16.  |
| OTHERS        | 2x4 SP No.3(flat) |                |   |

|                  |  |  |
|------------------|--|--|
| <b>REACTIONS</b> | (lb/size)  | 12=743/0-3-8, (min. 0-1-8), 20=743/ Mechanical, (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=-1570/0, 3-4=-2536/0, 4-5=-3016/0, 5-6=-3016/0, 6-7=-3016/0, 7-8=-2545/0, 8-9=-2545/0, 9-10=-1568/0  |
| BOT CHORD        |  | 19-20=0/929, 18-19=0/2182, 17-18=0/2881, 16-17=0/3016, 15-16=0/2874, 14-15=0/2874, 13-14=0/2184, 12-13=0/928   |
| WEBS             |  | 5-17=-325/30, 2-20=-1163/0, 2-19=0/835, 3-19=-797/0, 3-18=0/460, 4-18=-450/0, 4-17=-88/517, 10-12=-1162/0, 10-13=0/833, 9-13=-801/0, 9-14=0/471, 7-14=-428/0, 7-16=-92/453 |

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 3) All plates are 3x3 MT20 unless otherwise indicated.
  - 4) Refer to girder(s) for truss to truss connections.
  - 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.

**LOAD CASE(S)** Standard

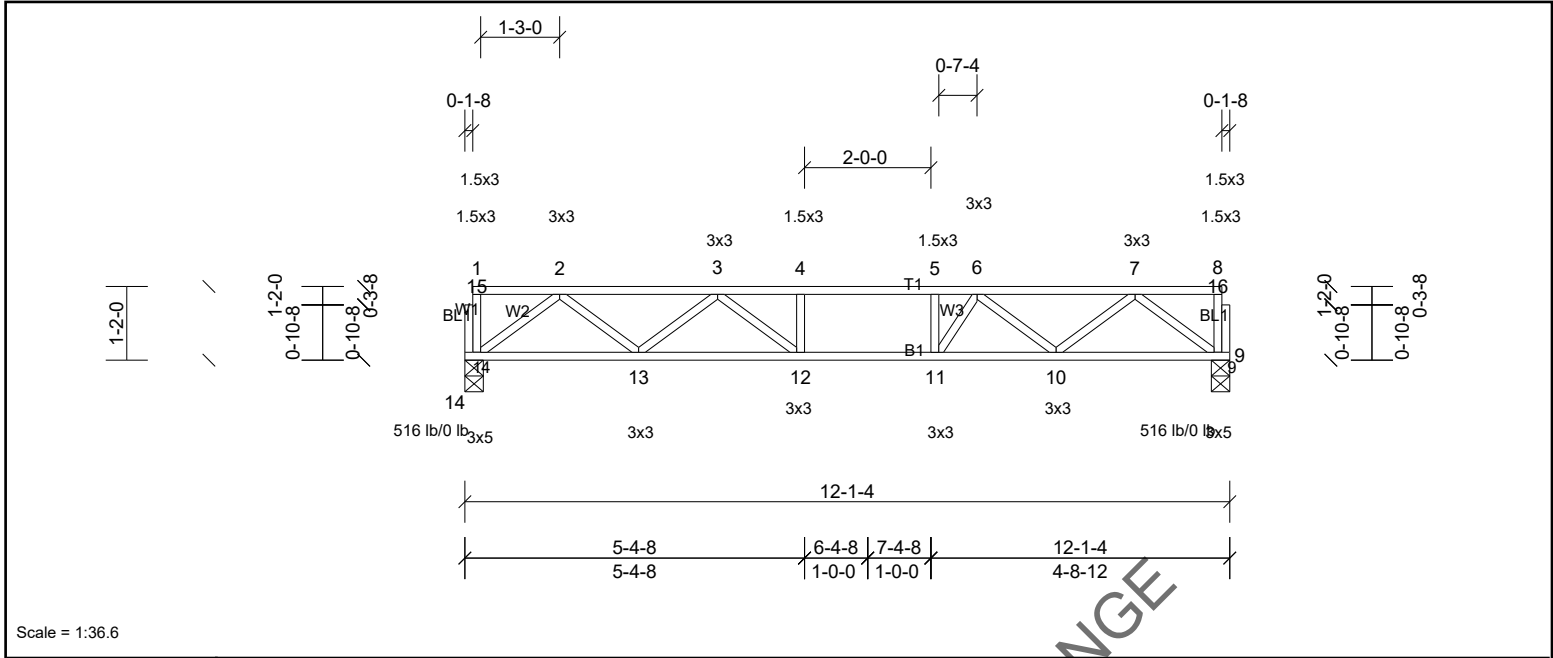
|                   |               |                     |          |          |                          |
|-------------------|---------------|---------------------|----------|----------|--------------------------|
| Job<br>21053233F2 | Truss<br>F202 | Truss Type<br>Truss | Qty<br>6 | Ply<br>1 | Job Reference (optional) |
|-------------------|---------------|---------------------|----------|----------|--------------------------|

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, David Gantt

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Scale = 1:36.6

|                       |                                 |                 |                 |            |      |             |       |       |        |     |               |                 |
|-----------------------|---------------------------------|-----------------|-----------------|------------|------|-------------|-------|-------|--------|-----|---------------|-----------------|
| Plate Offsets (X, Y): | [9:0-2-0,Edge], [14:0-2-0,Edge] |                 |                 |            |      |             |       |       |        |     |               |                 |
| <b>Loading</b>        | (psf)                           | <b>Spacing</b>  | 1-7-3           | <b>CSI</b> |      | <b>DEFI</b> | in    | (loc) | l/defl | L/d | <b>PLATES</b> | <b>GRIP</b>     |
| TCLL                  | 40.0                            | Plate Grip DOL  | 1.00            | TC         | 0.43 | Vert(LL)    | 0.08  | 12-13 | >999   | 480 | MT20          | 244/190         |
| TCDL                  | 10.0                            | Lumber DOL      | 1.00            | BC         | 0.52 | Vert(CT)    | -0.11 | 12-13 | >999   | 360 |               |                 |
| BCLL                  | 0.0                             | Rep Stress Incr | YES             | WB         | 0.22 | Horz(CT)    | 0.02  | 9     | n/a    | n/a |               |                 |
| BCDL                  | 5.0                             | Code            | IRC2015/TPI2014 | Matrix-SH  |      |             |       |       |        |     | Weight: 61 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) |                |   |

|                  |  |  |
|------------------|--|--|
| <b>REACTIONS</b> | (lb/size)  | 9=516/0-3-8, (min. 0-1-8), 14=516/0-3-8, (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=-998/0, 3-4=-1449/0, 4-5=-1449/0, 5-6=-1449/0, 6-7=-992/0  |
| BOT CHORD        |  | 13-14=0/636, 12-13=0/1326, 11-12=0/1449, 10-11=0/1335, 9-10=0/634  |
| WEBS             |  | 5-11=-267/0, 2-14=-796/0, 2-13=0/472, 3-13=-426/0, 3-12=0/326, 7-9=-793/0, 7-10=0/466, 6-10=-447/0, 6-11=0/398 |

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 3x3 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 10-0-0 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.

**LOAD CASE(S)** Standard

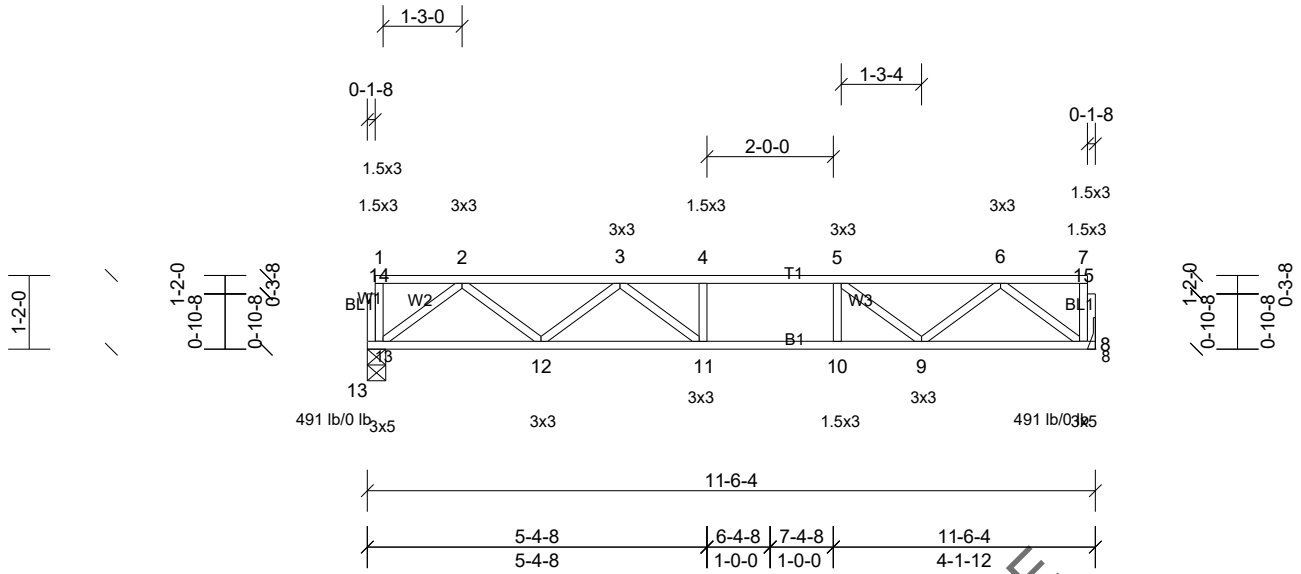
|                   |               |                     |          |          |                          |
|-------------------|---------------|---------------------|----------|----------|--------------------------|
| Job<br>21053233F2 | Truss<br>F203 | Truss Type<br>Truss | Qty<br>9 | Ply<br>1 | Job Reference (optional) |
|-------------------|---------------|---------------------|----------|----------|--------------------------|

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, David Gantt

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Scale = 1:36.6

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

| Loading | (psf) | Spacing         | 1-7-3           | CSI       | DEFI | in       | (loc) | l/defl | L/d  | PLATES | GRIP          |                 |
|---------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC        | 0.44 | Vert(LL) | 0.09  | 11-12  | >999 | 480    | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC        | 0.63 | Vert(CT) | -0.12 | 11-12  | >999 | 360    |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB        | 0.21 | Horz(CT) | 0.02  | 8      | n/a  | n/a    |               |                 |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-SH |      |          |       |        |      |        | Weight: 58 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)  | 8=491/ Mechanical, (min. 0-1-8), 13=491/0-3-8, (min. 0-1-8)                           |
|-----------|--|---|
| FORCES    | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |   |
| TOP CHORD |  | 2-3=-937/0, 3-4=-1300/0, 4-5=-1300/0, 5-6=-933/0                                      |
| BOT CHORD |  | 12-13=0/602, 11-12=0/1230, 10-11=0/1300, 9-10=0/1300, 8-9=0/592                       |
| WEBS      |  | 2-13=-754/0, 2-12=0/435, 3-12=-382/0, 3-11=-42/271, 6-8=-741/0, 6-9=0/444, 5-9=-480/0 |

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) Refer to girder(s) for truss to truss connections.
  - 3) This truss 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 10-0-0 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.

LOAD CASE(S) Standard

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.





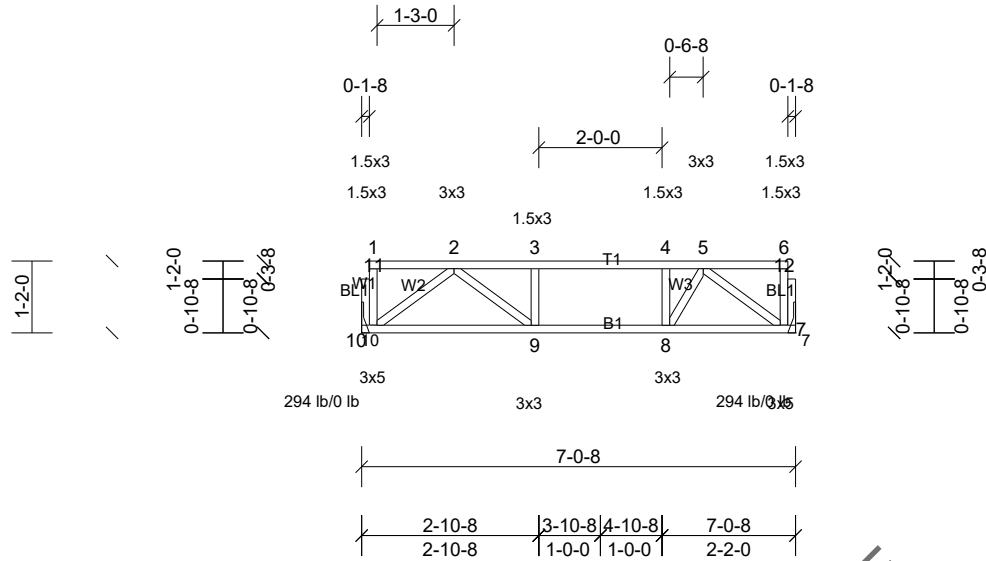
|                   |               |                     |           |          |                          |
|-------------------|---------------|---------------------|-----------|----------|--------------------------|
| Job<br>21053233F2 | Truss<br>F205 | Truss Type<br>Truss | Qty<br>13 | Ply<br>1 | Job Reference (optional) |
|-------------------|---------------|---------------------|-----------|----------|--------------------------|

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, David Gantt

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Scale = 1:37.6

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

| Loading | (psf) | Spacing         | 1-7-3           | CSI       | DEFI | in       | (loc) | l/defl | L/d  | PLATES | GRIP          |                 |
|---------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC        | 0.31 | Vert(LL) | -0.03 | 9-10   | >999 | 480    | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC        | 0.25 | Vert(CT) | -0.04 | 9-10   | >999 | 360    |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB        | 0.15 | Horz(CT) | 0.00  | 7      | n/a  | n/a    |               |                 |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-SH |      |          |       |        |      |        | Weight: 37 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=294/ Mechanical, (min. 0-1-8), 10=294/ Mechanical, (min. 0-1-8)

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

|           |                                    |
|-----------|------------------------------------|
| TOP CHORD | 2-3=-460/0, 3-4=-460/0, 4-5=-460/0 |
| BOT CHORD | 9-10=0/318, 8-9=0/460, 7-8=0/325   |
| WEBS      | 2-10=-395/0, 5-7=-404/0, 5-8=0/321 |

**NOTES**

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss 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.

**LOAD CASE(S)** Standard

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.



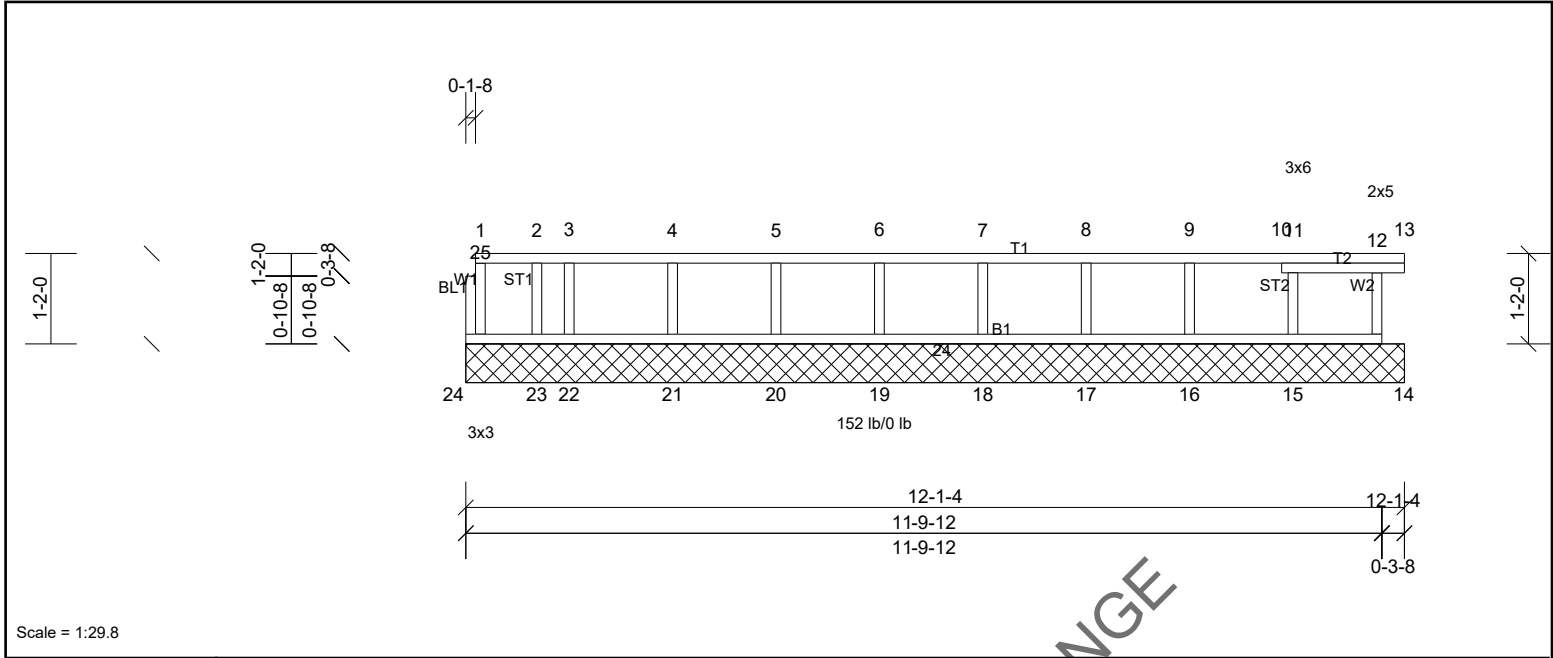
|                   |               |                     |          |          |                          |
|-------------------|---------------|---------------------|----------|----------|--------------------------|
| Job<br>21053233F2 | Truss<br>K200 | Truss Type<br>Truss | Qty<br>1 | Ply<br>1 | Job Reference (optional) |
|-------------------|---------------|---------------------|----------|----------|--------------------------|

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, David Gantt

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Scale = 1:29.8

Plate Offsets (X, Y): [12:0-3-0,Edge]

| Loading | (psf) | Spacing         | 2-0-0           | CSI      | DEFI | in       | (loc) | l/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       | 0.01 | Vert(CT) | n/a   | -      | n/a | 999    |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB       | 0.03 | Horz(CT) | n/a   | -      | n/a | n/a    |               |                 |
| BCLL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-R |      |          |       |        |     |        | Weight: 53 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 12-1-4.  
(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24

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

- NOTES**
- All plates are 1.5x3 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 1-4-0 oc.
  - 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.
  - CAUTION, Do not erect truss backwards.
- LOAD CASE(S)** Standard

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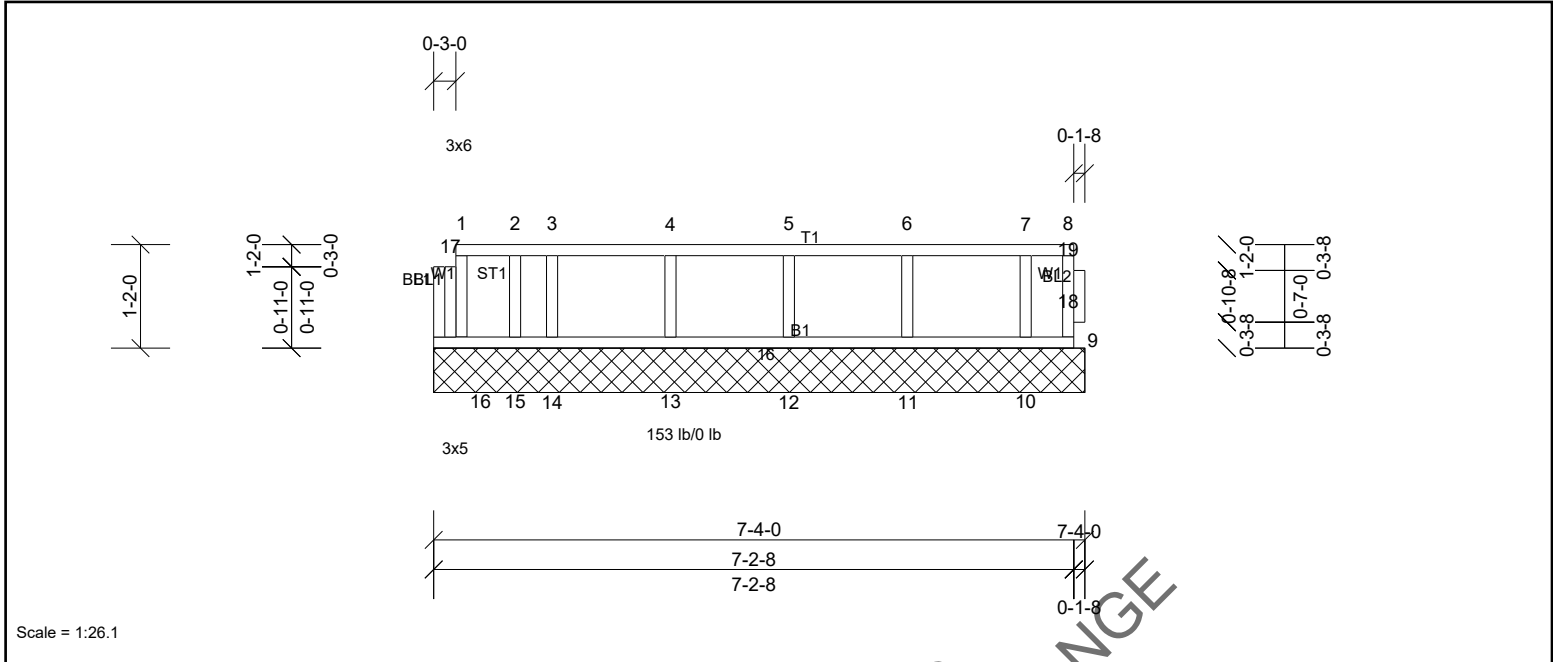
|                   |               |                     |          |          |                          |
|-------------------|---------------|---------------------|----------|----------|--------------------------|
| Job<br>21053233F2 | Truss<br>K201 | Truss Type<br>Truss | Qty<br>1 | Ply<br>1 | Job Reference (optional) |
|-------------------|---------------|---------------------|----------|----------|--------------------------|

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, David Gantt

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| 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       | 0.08 | Vert(TL)  | 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) | n/a   | -      | n/a | n/a    |               |                 |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-R |      |           |       |        |     |        | Weight: 35 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 7-4-0.  
(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 9, 10, 11, 12, 13, 14, 15, 16

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

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 3) Gable requires continuous bottom chord bearing.
  - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 5) Gable studs spaced at 1-4-0 oc.
  - 6) 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.
  - 7) 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.
  - 8) CAUTION, Do not erect truss backwards.
- LOAD CASE(S)** Standard

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.





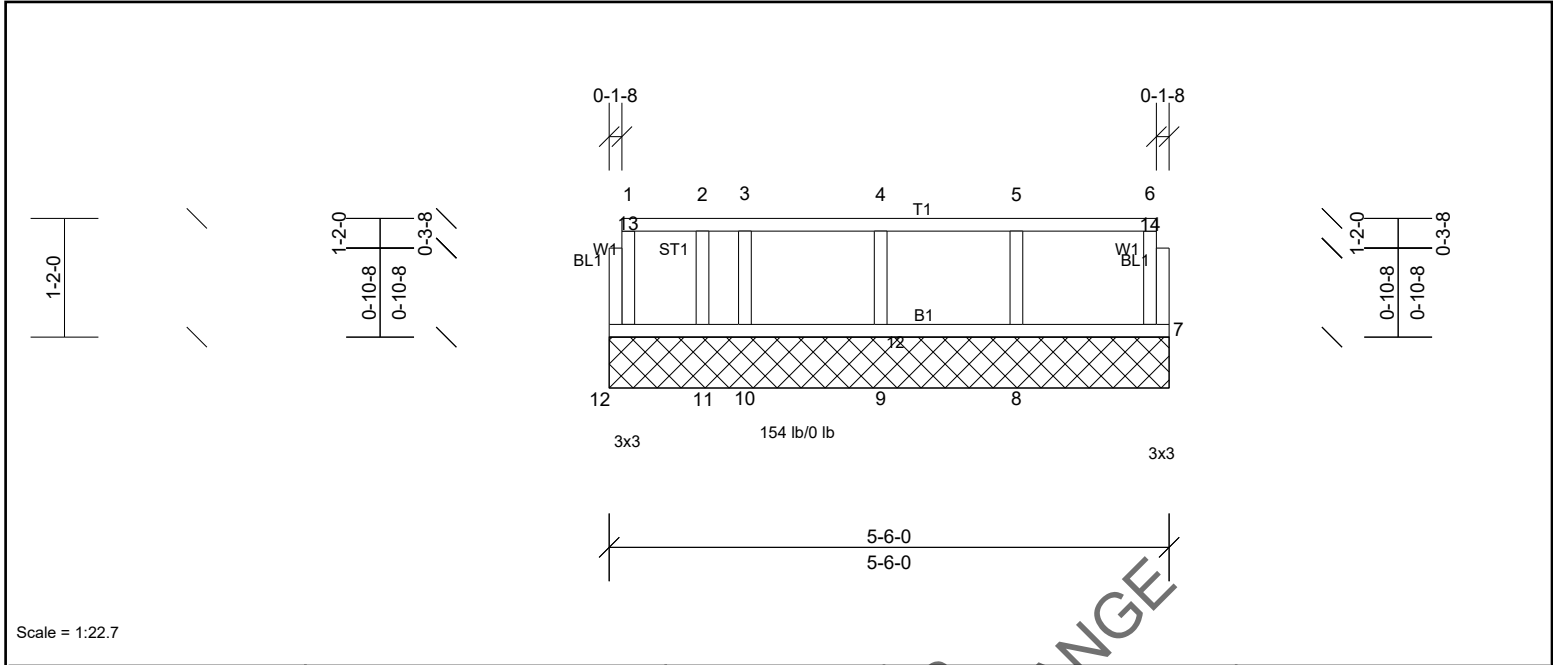
|                   |               |                     |          |          |                          |
|-------------------|---------------|---------------------|----------|----------|--------------------------|
| Job<br>21053233F2 | Truss<br>K202 | Truss Type<br>Truss | Qty<br>1 | Ply<br>1 | Job Reference (optional) |
|-------------------|---------------|---------------------|----------|----------|--------------------------|

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Scale = 1:22.7

| Loading | (psf) | Spacing         | 2-0-0           | CSI      | DEFL | in        | (loc) | l/defl | L/d | PLATES | GRIP          |                 |
|---------|-------|-----------------|-----------------|----------|------|-----------|-------|--------|-----|--------|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 0.90            | TC       | 0.08 | Vert(TL)  | n/a   | -      | n/a | 999    | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 0.90            | BC       | 0.02 | Vert(TL)  | n/a   | -      | n/a | 999    |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB       | 0.03 | Horiz(TL) | n/a   | -      | n/a | n/a    |               |                 |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-R |      |           |       |        |     |        | Weight: 26 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) |

**BRACING**

|           |   |
|-----------|---|
| TOP CHORD | Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |

**REACTIONS**

All bearings 5-6-0.  
(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 7, 8, 9, 10, 11, 12

**FORCES**

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

**NOTES**

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