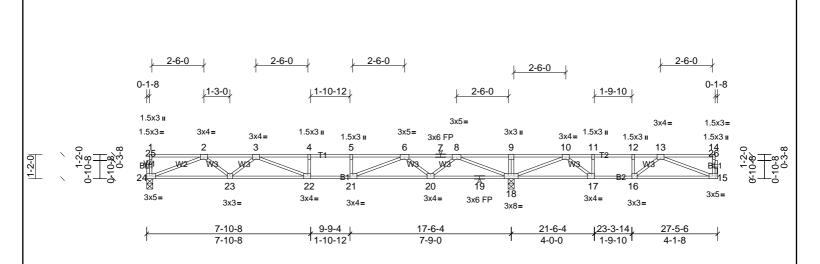
| Job      | Truss | Truss Type | Qty | Ply | PBS\HOLLY ENGLISH COUNTRY GR 2ND F |
|----------|-------|------------|-----|-----|------------------------------------|
| 72319498 | 2F1   | Truss      | 4   | 1   | Job Reference (optional)           |

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Tue May 30 09:31:11

Page: 1  $ID: ObxBgQG7JX?zbJgmArzmwpyMExY-xoAVxbljI5\_\_IuErZzKx2tttW6vgve07yVVbZ0zBMIU$ 



Scale = 1:55.7

| Plate Offsets (X, Y): [15:0-2-0,Edge], [17:0-1-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge], [24:0-2-0,Edge] |       |                 |                 |           |      |          |       |       |        |     |                |                 |
|---|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|-----------------|
| Loading   | (psf) | Spacing         | 1-7-3           | CSI       |      | DEFL     | in    | (loc) | I/defI | L/d | PLATES         | GRIP            |
| TCLL  | 40.0  | Plate Grip DOL  | 1.00            | TC        | 0.82 | Vert(LL) | -0.26 | 22-23 | >809   | 360 | MT20           | 244/190         |
| TCDL  | 10.0  | Lumber DOL      | 1.00            | BC        | 0.75 | Vert(CT) | -0.35 | 22-23 | >593   | 240 |                |                 |
| BCLL  | 0.0   | Rep Stress Incr | YES             | WB        | 0.53 | Horz(CT) | 0.04  | 18    | n/a    | n/a |                |                 |
| BCDL  | 5.0   | Code            | IRC2015/TPI2014 | Matrix-SH |      |          |       |       |        |     | Weight: 132 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 BOT CHORD 2x4 SP No.1(flat)

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. 2x4 SP No.3(flat) WEBS

**OTHERS** 2x4 SP No.3(flat)

REACTIONS 15=280/ Mechanical, (min. 0-1-8), 18=1424/0-3-8, (min. 0-1-8), (lb/size) 24=678/0-3-8, (min. 0-1-8)

Max Unlift 15=-13 (LC 3)

Max Grav 15=370 (LC 4), 18=1424 (LC 1), 24=688 (LC 10)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD  $2-3=-1943/0,\ 3-4=-2576/0,\ 4-5=-2576/0,\ 5-6=-2576/0,\ 6-7=-1256/0,\ 7-8=-1256/0,\ 8-9=0/1365,\ 9-10=0/1365,\ 10-11=-731/332,\ 11-12=-731/332,\ 12-13=-731/332$ 

**BOT CHORD** 23-24=0/1495, 22-23=0/2335, 21-22=0/2576, 20-21=0/1840, 19-20=-3/648, 18-19=-3/648, 17-18=-674/441, 16-17=-332/731, 15-16=-121/681

WEBS 8-18--1934/0, 2-24--1603/0, 8-20-0/813, 2-23-0/584, 6-20--790/0, 3-23--509/0, 6-21-0/915, 3-22--51/456, 10-18--1201/0, 13-15--727/131, 10-17-0/682, 13-16--269/63,

- Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 15.
- 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/
- 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.





| Job      | Truss | Truss Type | Qty | Ply | PBS\HOLLY ENGLISH COUNTRY GR 2ND F |
|----------|-------|------------|-----|-----|------------------------------------|
| 72319498 | 2F2   | Truss      | 9   | 1   | Job Reference (optional)           |

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Tue May 30 09:31:12 ID:SULsqYSXn8urucJfYVkH1\_yMExJ-P\_jt8xJL3P6rw1p17hrAb5P1nWCye4PHB9E85SzBMIT

21-2-12

4-0-0

23-0-6

1-9-10

27-1-14

4-1-8

Page: 1

2-6-0 2-6-0 0-1-8 0 - 1 - 82-6-0 1-9-10 H 1.5x3 II 3x5= 3x4 =1.5x3 =1.5x3= 1.5x3 II 3x3 II 1.5x3 II 3x4= 3x4= 1.5x3 II 3x6 FP 1.5x3 II 1.5x3 II 2 3 5 6 7.8 9 10 11 12 13 W3 閗 19 ₩ 18 23 22 21 20 17 16 3x5= 3x5= 3x4= 3x4= 3x6 FP 3x3= 3x4= 3x3= 3x8=

17-2-12

7-9-0

Scale = 1:55.2

| Plate Offsets (X, Y): | Plate Offsets (X, Y): [15:0-2-0,Edge], [17:0-1-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge], [24:0-2-0,Edge] |                 |                 |           |      |          |       |       |        |     |                |                 |  |
|-----------------------|---|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|-----------------|--|
| Loading               | (psf)   | Spacing         | 1-7-3           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP            |  |
| TCLL                  | 40.0  | Plate Grip DOL  | 1.00            | TC        | 0.85 | Vert(LL) | -0.23 | 22-23 | >877   | 360 | MT20           | 244/190         |  |
| TCDL                  | 10.0  | Lumber DOL      | 1.00            | BC        | 0.94 | Vert(CT) | -0.32 | 22-23 | >633   | 240 |                |                 |  |
| BCLL                  | 0.0   | Rep Stress Incr | YES             | WB        | 0.52 | Horz(CT) | 0.05  | 15    | n/a    | n/a |                |                 |  |
| BCDL                  | 5.0   | Code            | IRC2015/TPI2014 | Matrix-SH |      | i        |       |       |        |     | Weight: 131 lb | FT = 20%F, 11%E |  |

LUMBER BRACING

7-10-8

7-10-8

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)

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. 2x4 SP No.3(flat) WEBS **OTHERS** 2x4 SP No.3(flat)

19-5-12

1-7-4

REACTIONS 15=278/ Mechanical, (min. 0-1-8), 18=1416/0-3-8, (min. 0-1-8), 24=662/ (lb/size)

Mechanical, (min. 0-1-8) Max Unlift 15=-14 (LC 3)

Max Grav 15=369 (LC 4), 18=1416 (LC 1), 24=674 (LC 10)

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

TOP CHORD  $2-3=-1887/0,\ 3-4=-2474/0,\ 4-5=-2474/0,\ 5-6=-2474/0,\ 6-7=-1207/0,\ 7-8=-1207/0,\ 8-9=0/1385,\ 9-10=0/1385,\ 10-11=-723/336,\ 11-12=-723/336,\ 12-13=-723/336$ 

**BOT CHORD** 23-24=0/1457, 22-23=0/2263, 21-22=0/2474, 20-21=0/1776, 19-20=-23/610, 18-19=-23/610, 17-18=-682/428, 16-17=-336/723, 15-16=-120/678

WEBS 8-18--1908/0, 2-24--1562/0, 8-20-0/799, 2-23-0/560, 6-20--772/0, 3-23--490/0, 6-21-0/876, 3-22--89/425, 10-18--1204/0, 13-15--724/130, 10-17-0/691, 13-16--275/58,

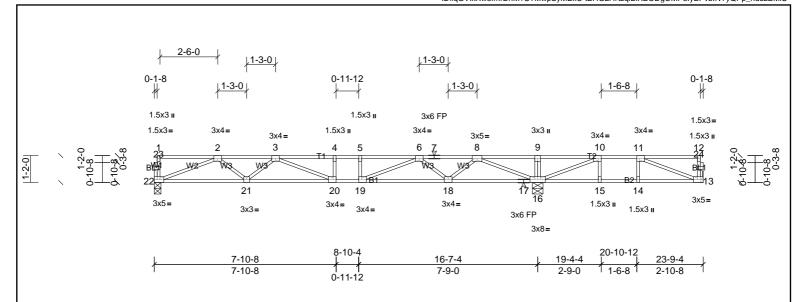
- Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 15.
- 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/
- 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.







Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Tue May 30 09:31:13  $ID: lqGVIxXw8ImrDhM?STMwpSyMExC-tBHGLHKzqiEiXBODgOMP8IyEPvbINYyQPp\_hduzBMIS$ 



Scale = 1:50.1

| Plate Offsets (X, Y): [10:0-1-8,Edge], [11:0-1-8,Edge], [13:0-2-0,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [22:0-2-0,Edge] |       |                 |                 |           |      |          |       |       |        |     |                |                 |
|--|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|-----------------|
| Loading  | (psf) | Spacing         | 1-7-3           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP            |
| TCLL   | 40.0  | Plate Grip DOL  | 1.00            | TC        | 0.73 | Vert(LL) | -0.19 | 20-21 | >999   | 360 | MT20           | 244/190         |
| TCDL   | 10.0  | Lumber DOL      | 1.00            | BC        | 0.74 | Vert(CT) | -0.27 | 20-21 | >741   | 240 |                |                 |
| BCLL   | 0.0   | Rep Stress Incr | YES             | WB        | 0.50 | Horz(CT) | 0.05  | 16    | n/a    | n/a |                |                 |
| BCDL   | 5.0   | Code            | IRC2015/TPI2014 | Matrix-SH |      |          |       |       |        |     | Weight: 116 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 2x4 SP No.2(flat) BOT CHORD

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. 2x4 SP No.3(flat) WEBS **OTHERS** 2x4 SP No.3(flat)

REACTIONS 13=156/ Mechanical, (min. 0-1-8), 16=1246/0-5-8, (min. 0-1-8), (lb/size)

22=656/0-3-8, (min. 0-1-8) Max Unlift 13=-58 (LC 3)

Max Grav 13=258 (LC 4), 16=1246 (LC 1), 22=667 (LC 10)

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

TOP CHORD  $2-3=-1857/0,\ 3-4=-2456/0,\ 4-5=-2456/0,\ 5-6=-2456/0,\ 6-7=-1409/0,\ 7-8=-1409/0,\ 8-9=0/1091,\ 9-10=0/1091,\ 10-11=-374/333$ 

**BOT CHORD** 21-22=0/1439, 20-21=0/2229, 19-20=0/2456, 18-19=0/1912, 17-18=0/869, 16-17=0/869, 15-16=-333/374, 14-15=-333/374, 13-14=-338/374, 13-14=-388/374, 13-14=-388WEBS 8-16=-1824/0, 2-22=-1542/0, 8-18=0/735, 2-21=0/545, 6-18=-695/0, 3-21=-483/0, 6-19=0/719, 3-20=-87/434, 10-16=-1056/0, 11-13=-395/360

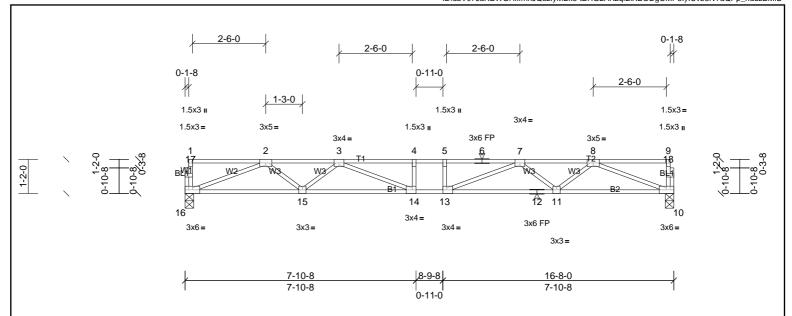
- Unbalanced floor live loads have been considered for this design.
- All plates are 1.5x3 MT20 unless otherwise indicated. 2)
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 13.
- 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/
- 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)
- 6) CAUTION, Do not erect truss backwards.





| Job      | Truss | Truss Type | Qty | Ply | PBS\HOLLY ENGLISH COUNTRY GR 2ND F |
|----------|-------|------------|-----|-----|------------------------------------|
| 72319498 | 2F4   | Truss      | 6   | 1   | Job Reference (optional)           |

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Tue May 30 09:31:13 Page: 1
ID:dbV07JaRBWGHilfmhJQszlyMEx8-tBHGLHKzqiEiXBODgOMP8lyIUvb8NYaQPp\_hduzBMIS



Scale = 1:39.5

| Plate Offsets (X, Y): | Plate Offsets (X, Y): [13:0-1-8,Edge], [14:0-1-8,Edge] |                 |                 |           |      |          |       |       |        |     |               |                 |  |
|-----------------------|--|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|-----------------|--|
| Loading               | (psf)  | Spacing         | 1-7-3           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |  |
| TCLL                  | 40.0   | Plate Grip DOL  | 1.00            | TC        | 0.47 | Vert(LL) | -0.21 | 13-14 | >934   | 360 | MT20          | 244/190         |  |
| TCDL                  | 10.0   | Lumber DOL      | 1.00            | BC        | 0.75 | Vert(CT) | -0.29 | 13-14 | >682   | 240 |               |                 |  |
| BCLL                  | 0.0  | Rep Stress Incr | YES             | WB        | 0.46 | Horz(CT) | 0.05  | 10    | n/a    | n/a |               |                 |  |
| BCDL                  | 5.0  | Code            | IRC2015/TPI2014 | Matrix-SH |      |          |       |       |        |     | Weight: 82 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.

WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 10=717/0-3-8, (min. 0-1-8), 16=717/0-3-8, (min. 0-1-8)

FORCES (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-2038/0, 3-4=-2851/0, 4-5=-2851/0, 5-6=-2851/0, 6-7=-2851/0, 7-8=-2038/0

BOT CHORD 15-16=0/1563, 14-15=0/2471, 13-14=0/2851, 12-13=0/2471, 11-12=0/2471, 10-11=0/1563

WEBS 8-10=-1676/0, 2-16=-1676/0, 8-11=0/618, 2-15=0/618, 7-11=-564/0, 3-15=-564/0, 7-13=0/590, 3-14=0/590

- Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/
- 3) 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 | PBS\HOLLY ENGLISH COUNTRY GR 2ND F |
|----------|-------|------------|-----|-----|------------------------------------|
| 72319498 | 2F5   | Truss      | 1   | 1   | Job Reference (optional)           |

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Tue May 30 09:31:13

Page: 1  $ID: 1AB9mKdJURfsZmOLNR\_ZbxyMEx5-tBHGLHKzqiEiXBODgOMP8lyK1viUNdHQPp\_hduzBMlS$ 

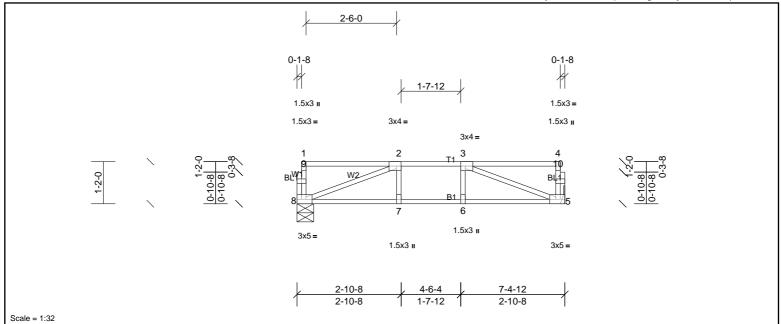


Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [5:0-2-0,Edge], [8:0-2-0,Edge]

| Loading | (psf) | Spacing         | 1-7-3           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC        | 0.37 | Vert(LL) | -0.04 | 7-8   | >999   | 360 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC        | 0.28 | Vert(CT) | -0.05 | 7-8   | >999   | 240 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB        | 0.16 | Horz(CT) | 0.01  | 5     | 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 2x4 SP No.2(flat) **BOT CHORD** 

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3(flat) WEBS

OTHERS 2x4 SP No.3(flat)

REACTIONS (lb/size) 5=309/ Mechanical, (min. 0-1-8), 8=309/0-5-8, (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-547/0

TOP CHORD

**BOT CHORD** 7-8=0/547, 6-7=0/547, 5-6=0/547 WEBS 3-5=-581/0, 2-8=-581/0

## NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/
- 3)

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.

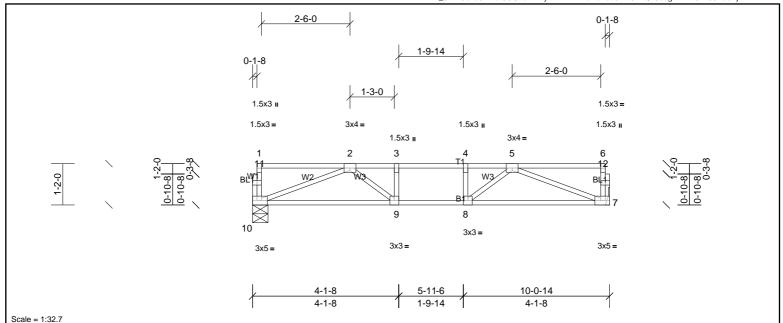




| Job      | Truss | Truss Type | Qty | Ply | PBS\HOLLY ENGLISH COUNTRY GR 2ND F |
|----------|-------|------------|-----|-----|------------------------------------|
| 72319498 | 2F6   | Truss      | 14  | 1   | Job Reference (optional)           |

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Tue May 30 09:31:14

Page: 1 



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

| Loading | (psf) | Spacing         | 1-7-3           | CSI       |      | DEFL     | in    | (loc) | I/defI | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC        | 0.30 | Vert(LL) | -0.05 | 9-10  | >999   | 360 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC        | 0.34 | Vert(CT) | -0.08 | 9-10  | >999   | 240 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB        | 0.24 | Horz(CT) | 0.01  | 7     | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-SH |      |          |       |       |        |     | Weight: 50 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 **BOT CHORD** 2x4 SP No.2(flat)

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3(flat) WEBS OTHERS 2x4 SP No.3(flat)

REACTIONS (lb/size) 7=427/ Mechanical, (min. 0-1-8), 10=427/0-5-4, (min. 0-1-8) **FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-996/0, 3-4=-996/0, 4-5=-996/0 **BOT CHORD** 9-10=0/828, 8-9=0/996, 7-8=0/828 WEBS 5-7=-885/0, 2-10=-885/0, 5-8=0/331, 2-9=0/331

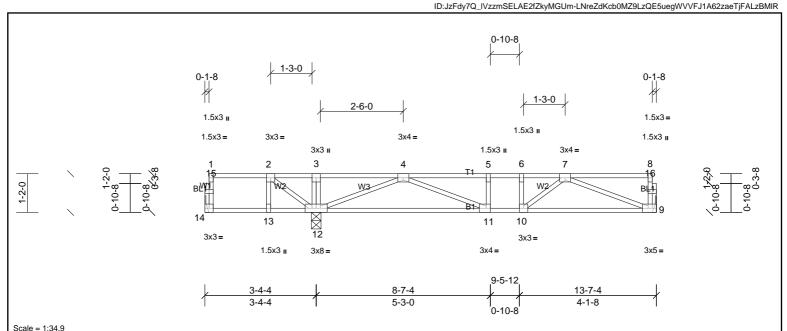
- Unbalanced floor live loads have been considered for this design. 1)
- 2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/
- 3)
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to 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 | PBS\HOLLY ENGLISH COUNTRY GR 2ND F |
|----------|-------|------------|-----|-----|------------------------------------|
| 72319498 | 2F7   | Truss      | 3   | 1   | Job Reference (optional)           |

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Tue May 30 09:31:14 Page: 1



| Plate Offsets (X, Y): | [9:0-2-0,Edge], [11:0-1-8,Edge] |
|-----------------------|---------------------------------|

| Loading | (psf) | Spacing         | 1-7-3           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC        | 0.34 | Vert(LL) | -0.06 | 11-12 | >999   | 360 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC        | 0.38 | Vert(CT) | -0.09 | 11-12 | >999   | 240 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB        | 0.26 | Horz(CT) | 0.01  | 9     | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-SH |      |          |       |       |        |     | Weight: 68 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 2x4 SP No.2(flat) **BOT CHORD** 

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3(flat) WEBS OTHERS 2x4 SP No.3(flat)

REACTIONS (lb/size) 9=411/ Mechanical, (min. 0-1-8), 12=700/0-3-8, (min. 0-1-8), 14=54/

Mechanical, (min. 0-1-8) Max Grav 9=428 (LC 4), 12=700 (LC 1), 14=65 (LC 3)

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

TOP CHORD 4-5=-1023/0, 5-6=-1023/0, 6-7=-1023/0 **BOT CHORD** 11-12=0/775, 10-11=0/1023, 9-10=0/837

**WEBS** 2-12=-263/0, 4-12=-941/0, 7-9=-895/0, 4-11=0/390, 7-10=0/292

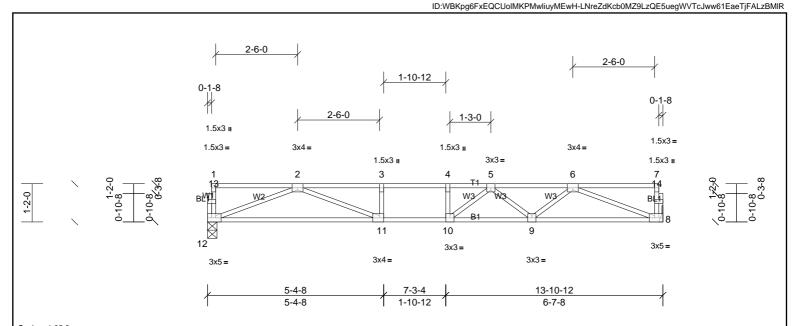
- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/ **TPI 1.**
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened 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.
- 4)





| Job                             | Truss                             | Truss Type          | Qty   | Ply | PBS\HOLLY ENGLISH COUNTRY GR 2ND F |  |  |  |
|---------------------------------|-----------------------------------|---------------------|---|-----|------------------------------------|--|--|--|
| 72319498                        | 2F8                               | Truss               | 3   | 1   | Job Reference (optional)           |  |  |  |
| UFP Mid Atlantic LLC, 5631 S. N | IC 62, Burlington, NC, Micah Clay | ton Run: 8.62 S Sep | Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Tue May 30 09:31:14 |     |                                    |  |  |  |

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Tue May 30 09:31:14



Scale = 1:35.3

| Plate Offsets (X, Y): | ate Offsets (X, Y): [8:0-2-0,Edge], [11:0-1-8,Edge], [12:0-2-0,Edge] |                 |                 |           |      |          |       |       |        |     |               |                 |  |
|-----------------------|--|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|-----------------|--|
| Loading               | (psf)  | Spacing         | 1-7-3           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |  |
| TCLL                  | 40.0   | Plate Grip DOL  | 1.00            | TC        | 0.51 | Vert(LL) | -0.16 | 9-10  | >999   | 360 | MT20          | 244/190         |  |
| TCDL                  | 10.0   | Lumber DOL      | 1.00            | BC        | 0.78 | Vert(CT) | -0.20 | 9-10  | >811   | 240 |               |                 |  |
| BCLL                  | 0.0  | Rep Stress Incr | YES             | WB        | 0.37 | Horz(CT) | 0.03  | 8     | n/a    | n/a |               |                 |  |
| BCDL                  | 5.0  | Code            | IRC2015/TPI2014 | Matrix-SH |      |          |       |       |        |     | Weight: 67 lb | FT = 20%F, 11%E |  |

LUMBER **BRACING** 

TOP CHORD 2x4 SP No.2(flat) TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3(flat) WEBS OTHERS 2x4 SP No.3(flat)

REACTIONS (lb/size) 8=595/ Mechanical, (min. 0-1-8), 12=595/0-3-8, (min. 0-1-8) **FORCES** (lb) - Max, Comp./Max, Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1922/0, 3-4=-1922/0, 4-5=-1922/0, 5-6=-1583/0 **BOT CHORD**  $11\text{-}12\text{=}0/1252,\, 10\text{-}11\text{=}0/1922,\, 9\text{-}10\text{=}0/1855,\, 8\text{-}9\text{=}0/1262$ 

WEBS 6-8=-1353/0, 2-12=-1342/0, 6-9=0/418, 2-11=0/769, 5-9=-354/0, 5-10=-107/332

## NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/
- 3) 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.



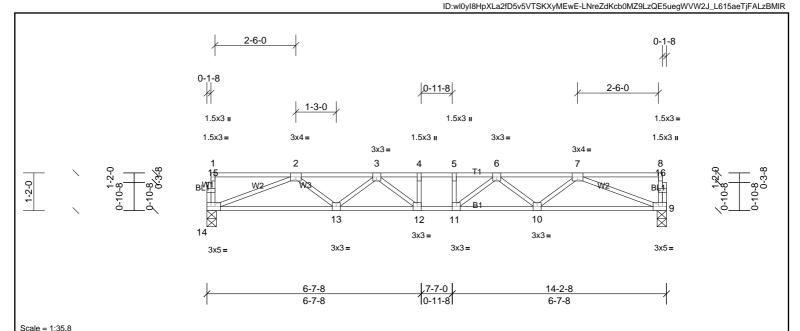
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end



| Job      | Truss | Truss Type | Qty | Ply | PBS\HOLLY ENGLISH COUNTRY GR 2ND F |
|----------|-------|------------|-----|-----|------------------------------------|
| 72319498 | 2F9   | Truss      | 3   | 1   | Job Reference (optional)           |

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Tue May 30 09:31:14 Page: 1

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



| Plate Offsets (X, Y): | [9:0-2-0,Edg | [9:0-2-0,Edge], [14:0-2-0,Edge] |                 |           |      |          |       |       |        |     |               |                 |  |  |
|-----------------------|--------------|---------------------------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|-----------------|--|--|
| Loading               | (psf)        | Spacing                         | 1-7-3           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |  |  |
| TCLL                  | 40.0         | Plate Grip DOL                  | 1.00            | TC        | 0.29 | Vert(LL) | -0.12 | 12    | >999   | 360 | MT20          | 244/190         |  |  |
| TCDL                  | 10.0         | Lumber DOL                      | 1.00            | BC        | 0.56 | Vert(CT) | -0.16 | 11-12 | >999   | 240 |               |                 |  |  |
| BCLL                  | 0.0          | Rep Stress Incr                 | YES             | WB        | 0.38 | Horz(CT) | 0.04  | 9     | n/a    | n/a |               |                 |  |  |
| BCDL                  | 5.0          | Code                            | IRC2015/TPI2014 | Matrix-SH |      |          |       |       |        |     | Weight: 71 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.

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

**REACTIONS** (lb/size) 9=609/0-3-8, (min. 0-1-8), 14=609/0-3-8, (min. 0-1-8)

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

 TOP CHORD
 2-3=-1629/0, 3-4=-2040/0, 4-5=-2040/0, 5-6=-2040/0, 6-7=-1629/0

 BOT CHORD
 13-14=0/1295, 12-13=0/1927, 11-12=0/2040, 10-11=0/1927, 9-10=0/1295

WEBS 7-9=-1388/0, 2-14=-1388/0, 7-10=0/435, 2-13=0/435, 6-10=-388/0, 3-13=-388/0, 6-11=-69/315, 3-12=-69/315

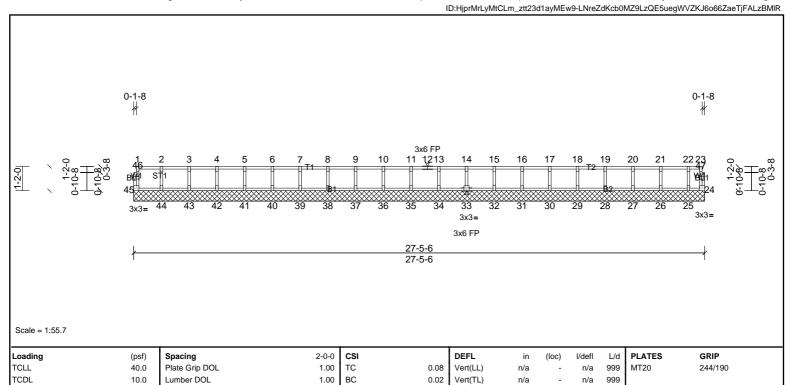
- Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each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







Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Tue May 30 09:31:14



0.03

TOP CHORD

**BOT CHORD** 

Horiz(TL)

verticals

n/a

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

Weight: 113 lb

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

LUMBER **BRACING** 

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 27-5-6

(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 24, 25, 26, 27, 28, 29, 30, 31, 32,

33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45

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

Rep Stress Incr

Code

NOTES

BCLL

BCDL

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

0.0

5.0

- 2) Gable requires continuous bottom chord bearing
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web). 3)
- 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/
- 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)

YES WB

Matrix-R

IRC2015/TPI2014

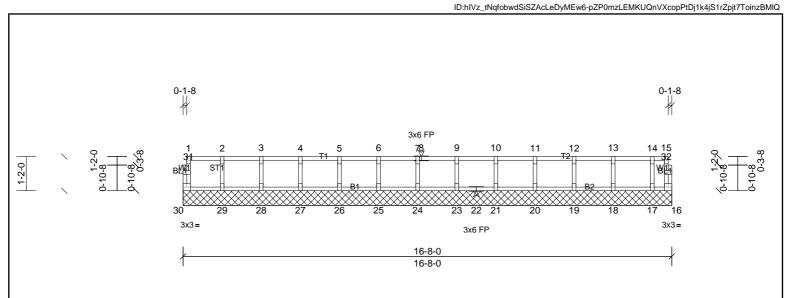




FT = 20%F, 11%E



Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Tue May 30 09:31:15



Scale = 1:39.5

| Loading | (psf) | Spacing         | 2-0-0           | CSI      |      | DEFL      | in  | (loc) | I/defI | 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) | n/a | -     | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-R |      |           |     |       |        |     | Weight: 70 lb | FT = 20%F, 11%E |

LUMBER **BRACING** TOP CHORD

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

**BOT CHORD** 

OTHERS 2x4 SP No.3(flat) REACTIONS All bearings 16-8-0

(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 16, 17, 18, 19, 20, 21, 23, 24, 25,

26, 27, 28, 29, 30

**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/
- 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.



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

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

verticals





Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Tue May 30 09:31:15  $ID: 2GIs1aRzTKDCjDbPLjCWLGyMEw1-pZP0mzLEMKUQnVXcopPtDj1kvjS1rZpjt7ToinzBMIQ\\ ID: 2Gis1aRzTKDCjDbPLJCWLGyMew1-pZP0mzLEMKUQnVXcopPtDyNCyMew1-pZP0mzLEMCyMew1-pZP0mzDyNcyMew1-pZP0mzDyNcyMew1-pZP0mzDyNcyMew1-pZP0mzDyNcyMew1-pZP0mzDyNcyMew1-pZP0mzDyNcyMew1-pZP0mzDyNcyMew1-pZP0mzDyNcyMew1-pZP0mzDyNcyMew1-pZP0mzDyNcyMew1-pZP0mzDyNcyMew1-pZP0mzDyNcyMew1-pZP$ 

in

n/a

n/a

(loc)

I/defI

n/a

n/a 999

n/a n/a

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

L/d

999

**PLATES** 

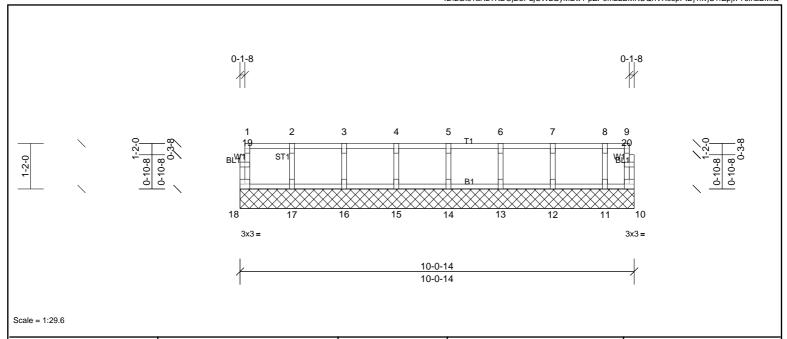
Weight: 44 lb

244/190

FT = 20%F, 11%E

MT20

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



0.09

0.02

0.03

**BRACING** 

TOP CHORD

**BOT CHORD** 

Vert(LL)

Vert(TL)

Horiz(TL)

BCDL IRC2015/TPI2014 5.0 Matrix-R Code

LUMBER TOP CHORD 2x4 SP No.2(flat)

Spacing

Plate Grip DOL

Rep Stress Incr

Lumber DOL

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

(psf)

40.0

10.0

0.0

OTHERS 2x4 SP No.3(flat)

REACTIONS All bearings 10-0-14.

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

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

# NOTES

Loading

TCLL

TCDL

BCLL

- 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/

2-0-0

1.00 TC

1.00 BC

NO WB

CSI

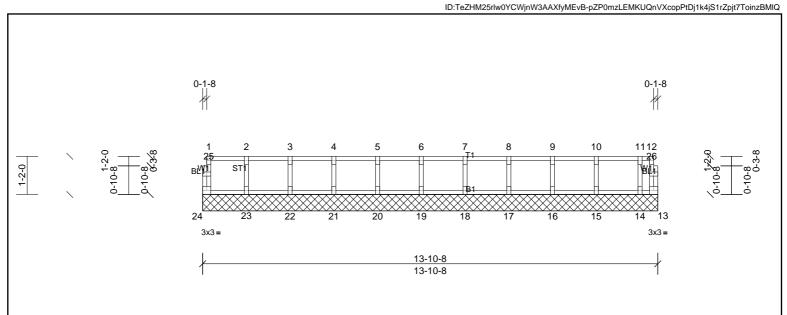
Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached 6) to walls at their outer ends or restrained by other means.







Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Tue May 30 09:31:15



Scale = 1:35.3

| 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(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) | n/a | -     | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | IRC2015/TPI2014 | Matrix-R |      |           |     |       |        |     | Weight: 59 lb | FT = 20%F, 11%E |

LUMBER **BRACING** 

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

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 6-0-0 oc purlins, except end

verticals

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

REACTIONS All bearings 13-10-8.

2x4 SP No.3(flat)

(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 13, 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.

- 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/
- 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.



