

Mark Morris, P.E.

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The truss drawing(s) listed below have been prepared by **Atlantic Building Components** under my direct supervision based on the parameters provided by the truss designers.

AST #: 51009

JOB: 24-6504-F02

JOB NAME: LOT 0.0008 HONEYCUTT HILLS

Wind Code: N/A

Wind Speed: Vult= N/A

Exposure Category: N/A

Mean Roof Height (feet): N/A

These truss designs comply with IRC 2015 as well as IRC 2018.

13 Truss Design(s)

Trusses:

F01, F02, F03, F04, F05, F06, F07, F08, F09, F10, F11, F12, F13



8/2/2024

Mark Morris

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| | | | | | | |
|--------------------|--------------|-------------------------------------|----------|----------|--|---------|
| Job 24-6504-F02 | Truss F01 | Truss Type Floor Supported Gable | Qty 1 | Ply 1 | LOT 0.0008 HONEYCUTT HILLS 155 SHELBY MEADOW LANE ANGIER, NC | # 51009 |
|--------------------|--------------|-------------------------------------|----------|----------|--|---------|

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0₁-8

0₁-8

Scale = 1:19.9

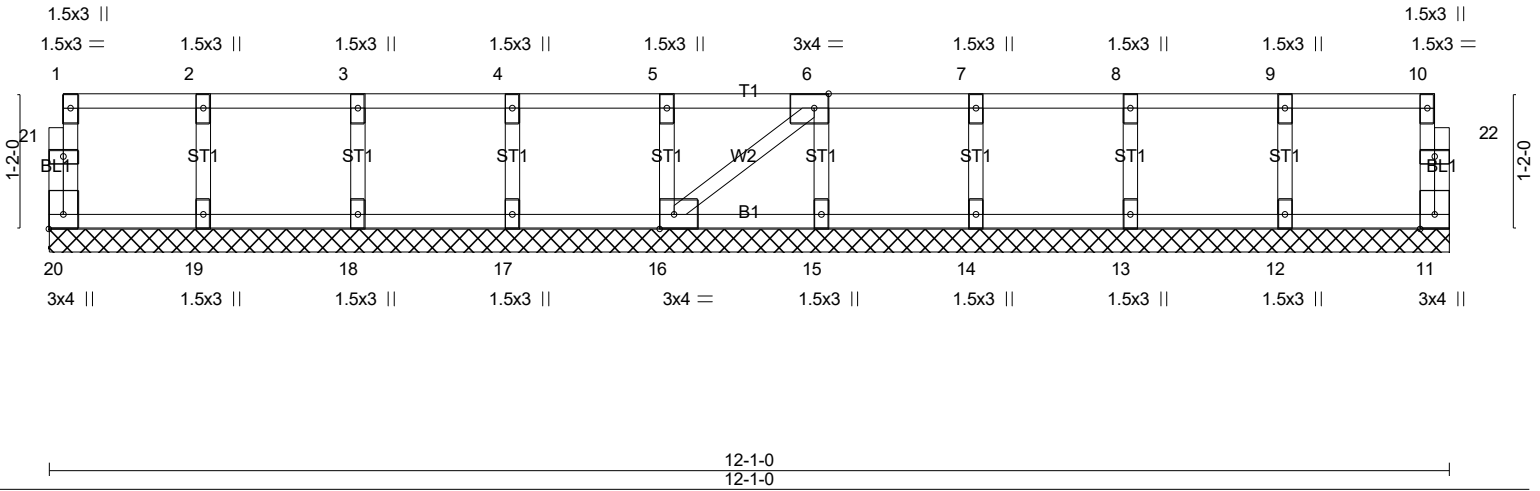


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [16:0-1-8,Edge], [20:Edge,0-1-8]

| 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 0.06 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.00 | BC 0.01 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL 0.0 | Rep Stress Incr | YES | WB 0.03 | Horz(CT) | 0.00 | 11 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | Weight: 54 lb | FT = 20%F, 11%E |

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

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

REACTIONS. All bearings 12-1-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

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

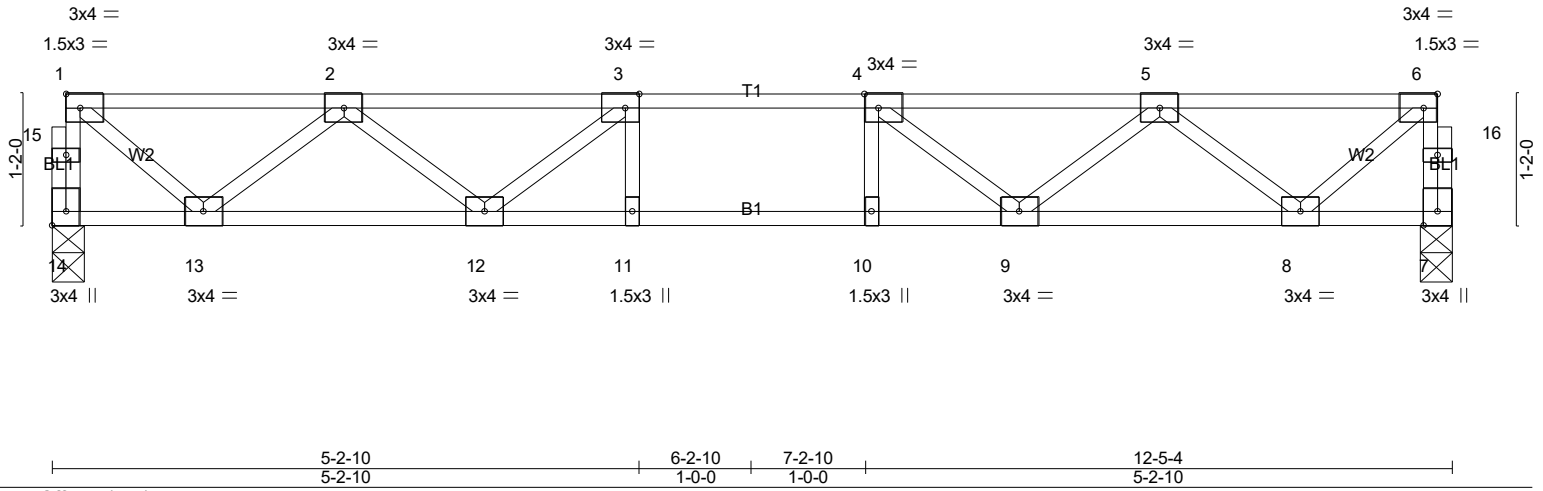
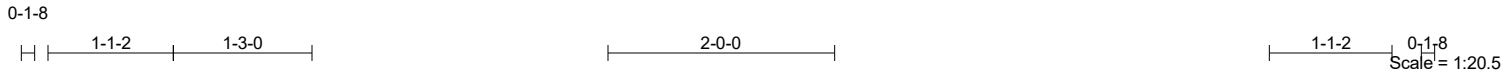
- NOTES-** (5-8)
- Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



8/2/2024

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| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|-----------|-------------------------------|---------------|-----------------|
| TCLL 40.0 | 1-7-3 | TC 0.23 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.00 | BC 0.44 | Vert(LL) -0.07 11-12 >999 480 | | |
| BCLL 0.0 | Lumber DOL 1.00 | WB 0.32 | Vert(CT) -0.09 11 >999 360 | | |
| BCDL 5.0 | Rep Stress Incr YES | Matrix-SH | Horz(CT) 0.02 7 n/a n/a | | |
| | Code IRC2021/TPI2014 | | | Weight: 62 lb | FT = 20%F, 11%E |

LUMBER-
 TOP CHORD 2x4 SP No.1(flat)
 BOT CHORD 2x4 SP No.1(flat)
 WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 14=531/0-3-6 (min. 0-1-8), 7=531/0-3-6 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 14-15=-528/0, 1-15=-527/0, 7-16=-528/0, 6-16=-527/0, 1-2=-533/0, 2-3=-1304/0, 3-4=-1546/0, 4-5=-1304/0, 5-6=-533/0
 BOT CHORD 12-13=0/1055, 11-12=0/1546, 10-11=0/1546, 9-10=0/1546, 8-9=0/1055
 WEBS 3-12=-396/0, 2-12=0/335, 2-13=-679/0, 1-13=0/675, 4-9=-396/0, 5-9=0/335, 5-8=-679/0, 6-8=0/675

- NOTES-** (3-6)
- Unbalanced floor live loads have been considered for this design.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
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LOAD CASE(S) Standard

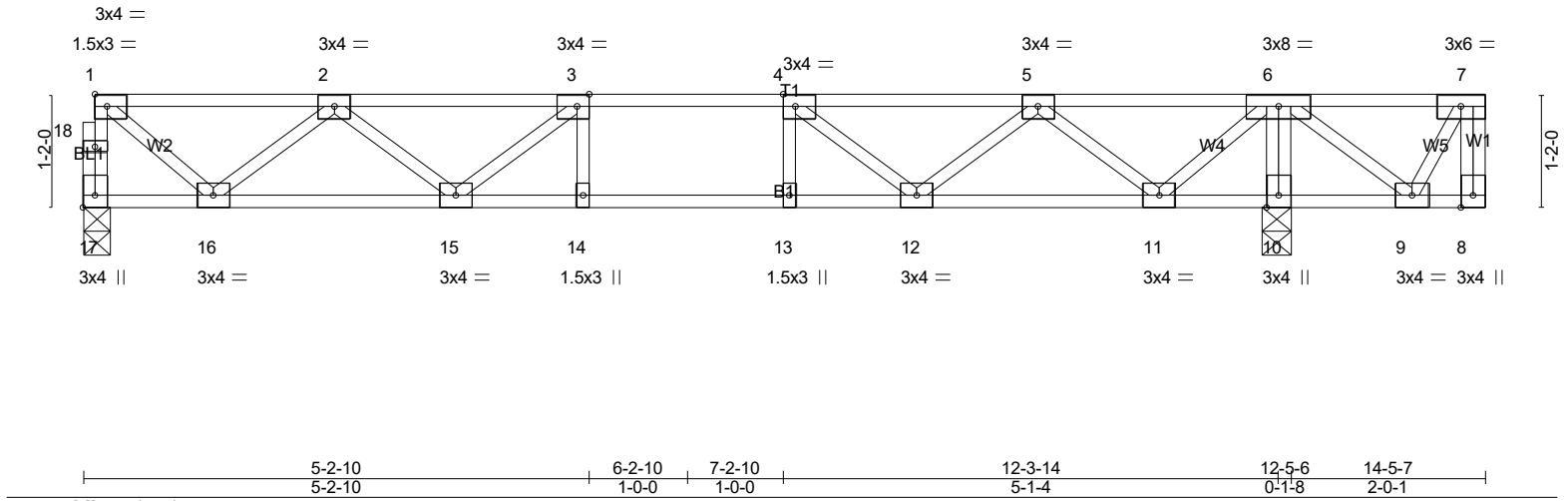
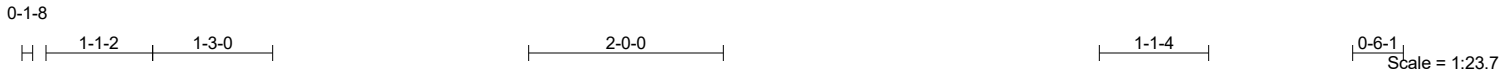


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|--------------------|--------------|---------------------|----------|----------|--|---------|
| Job 24-6504-F02 | Truss F04 | Truss Type Floor | Qty 1 | Ply 1 | LOT 0.0008 HONEYCUTT HILLS 155 SHELBY MEADOW LANE ANGIER, NC | # 51009 |
|--------------------|--------------|---------------------|----------|----------|--|---------|

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| | | | | | |
|---|-----------------------|-------------|----------------------------------|---------------|-----------------|
| Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [17:Edge,0-1-8] | | | | | |
| 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 0.27 | Vert(LL) -0.07 14-15 >999 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.46 | Vert(CT) -0.09 14-15 >999 360 | | |
| BCLL 0.0 | Rep Stress Incr YES | WB 0.33 | Horz(CT) 0.02 10 n/a n/a | | |
| BCDL 5.0 | Code IRC2021/TPI2014 | Matrix-SH | | Weight: 75 lb | FT = 20%F, 11%E |

| | |
|-----------------------------|--|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.1(flat) | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1(flat) | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11,9-10. |
| WEBS 2x4 SP No.3(flat) | |

REACTIONS. (lb/size) 17=517/0-3-6 (min. 0-1-8), 10=727/0-3-8 (min. 0-1-8)
Max Grav 17=527(LC 3), 10=727(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 17-18=-525/0, 1-18=-524/0, 1-2=-529/0, 2-3=-1292/0, 3-4=-1526/0, 4-5=-1275/0, 5-6=-503/0
BOT CHORD 15-16=0/1047, 14-15=0/1526, 13-14=0/1526, 12-13=0/1526, 11-12=0/1017
WEBS 6-10=-707/0, 3-15=-387/0, 2-15=0/328, 2-16=-674/0, 1-16=0/670, 4-12=-440/0, 5-12=0/366, 5-11=-672/0, 6-11=0/684

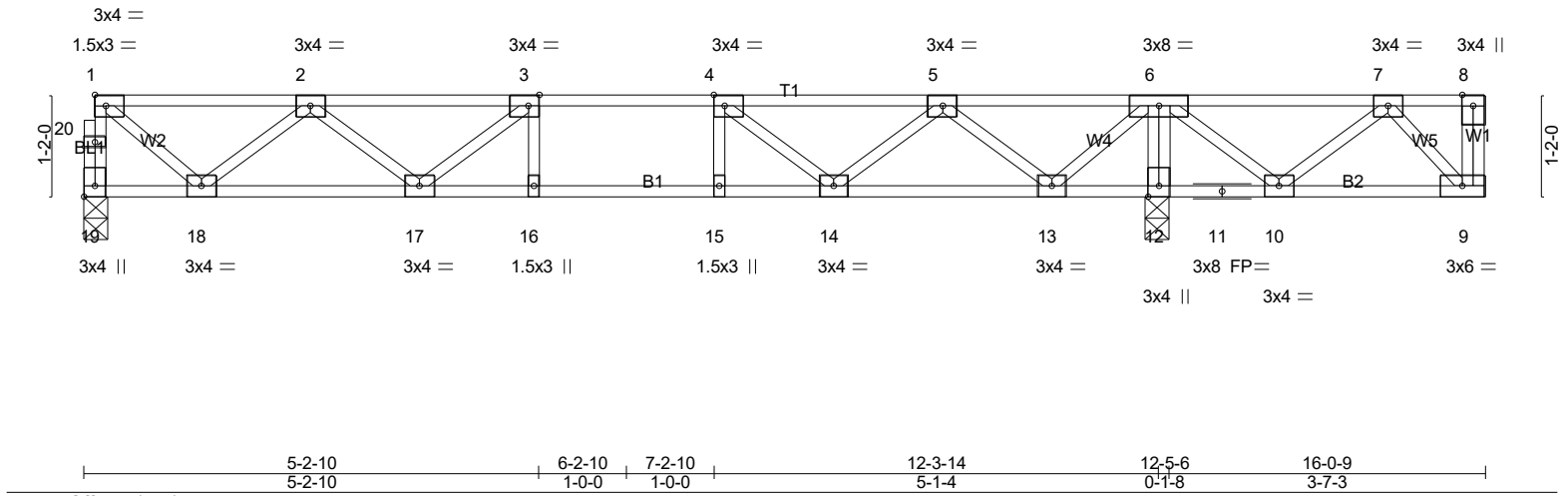
- NOTES-** (4-7)
- Unbalanced floor live loads have been considered for this design.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.
 - Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
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LOAD CASE(S) Standard



8/2/2024

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| | | |
|--|--|--|
| Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [19:Edge,0-1-8] | | |
| LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0 | SPACING- Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2021/TPI2014 | DEFL. in (loc) l/defl L/d Vert(LL) -0.08 16-17 >999 480 Vert(CT) -0.10 16-17 >999 360 Horz(CT) 0.02 12 n/a n/a |
| CS. TC 0.33 BC 0.53 WB 0.35 Matrix-SH | | PLATES GRIP MT20 244/190 Weight: 83 lb FT = 20%F, 11%E |

LUMBER-
 TOP CHORD 2x4 SP No.1(flat)
 BOT CHORD 2x4 SP No.1(flat)
 WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 19=485/0-3-6 (min. 0-1-8), 12=900/0-3-8 (min. 0-1-8)
 Max Grav 19=519(LC 3), 12=900(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 19-20=-516/0, 1-20=-515/0, 1-2=-519/0, 2-3=-1260/0, 3-4=-1475/0, 4-5=-1204/19, 5-6=-411/328
 BOT CHORD 17-18=0/1028, 16-17=0/1475, 15-16=0/1475, 14-15=0/1475, 13-14=-165/934, 12-13=-511/0, 11-12=-509/0, 10-11=-509/0
 WEBS 6-12=-882/0, 3-17=-362/53, 2-17=0/313, 2-18=-662/0, 1-18=0/657, 4-14=-533/0, 5-14=0/425, 5-13=-711/0, 6-13=0/727,
 6-10=0/342, 7-10=-301/0

- NOTES-** (4-7)
- Unbalanced floor live loads have been considered for this design.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
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 - SEE BCSI-B3 SUMMARY SHEET - PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

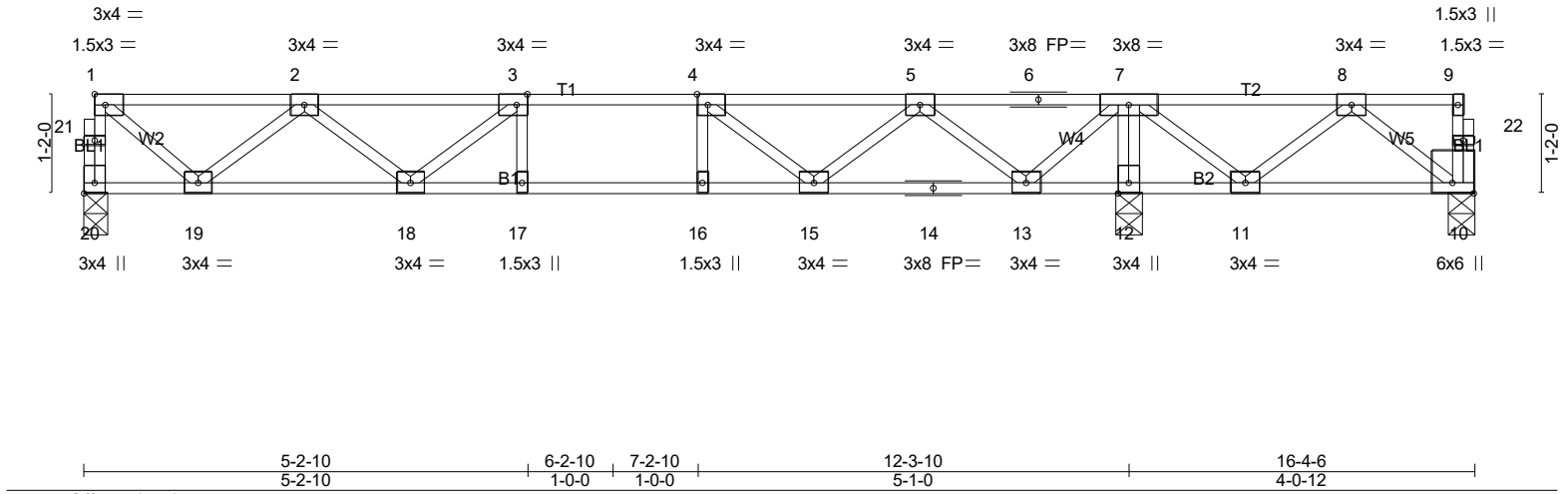


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|--------------------|--------------|---------------------|----------|----------|--|---------|
| Job 24-6504-F02 | Truss F06 | Truss Type Floor | Qty 3 | Ply 1 | LOT 0.0008 HONEYCUTT HILLS 155 SHELBY MEADOW LANE ANGIER, NC | # 51009 |
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| | | | | | |
|--|----------------------|-----------------|-------------------------------|------------------|------------------|
| Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [10:Edge,0-3-0], [20:Edge,0-1-8] | 5-2-10 5-2-10 | 6-2-10 1-0-0 | 7-2-10 1-0-0 | 12-3-10 5-1-0 | 16-4-6 4-0-12 |
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 40.0 | 1-7-3 | TC 0.28 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.00 | BC 0.47 | Vert(LL) -0.07 17-18 >999 480 | | |
| BCLL 0.0 | Lumber DOL 1.00 | WB 0.36 | Vert(CT) -0.10 17-18 >999 360 | | |
| BCDL 5.0 | Rep Stress Incr YES | Matrix-SH | Horz(CT) 0.01 12 n/a n/a | | |
| | Code IRC2021/TPI2014 | | | Weight: 84 lb | FT = 20%F, 11%E |

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 20=469/0-3-6 (min. 0-1-8), 12=961/0-3-8 (min. 0-1-8), 10=-22/0-3-8 (min. 0-1-8)
Max Uplift 10=-139(LC 3)
Max Grav 20=471(LC 3), 12=961(LC 1), 10=111(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 20-21=-466/0, 1-21=-465/0, 1-2=-464/0, 2-3=-1088/0, 3-4=-1195/0, 4-5=-817/0, 5-6=-115/292, 6-7=-115/292, 7-8=0/424
BOT CHORD 18-19=0/921, 17-18=0/1195, 16-17=0/1195, 15-16=0/1195, 14-15=0/480, 13-14=0/480, 12-13=-791/0, 11-12=-787/0
WEBS 7-12=-944/0, 2-19=-596/0, 1-19=0/587, 4-15=-492/0, 5-15=0/445, 5-13=-745/0, 7-13=0/757, 7-11=0/457, 8-11=-411/0, 8-10=-135/252

- NOTES-** (5-8)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 10.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) CAUTION. Do not erect truss backwards.
 - 5) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - 6) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - 7) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - 8) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

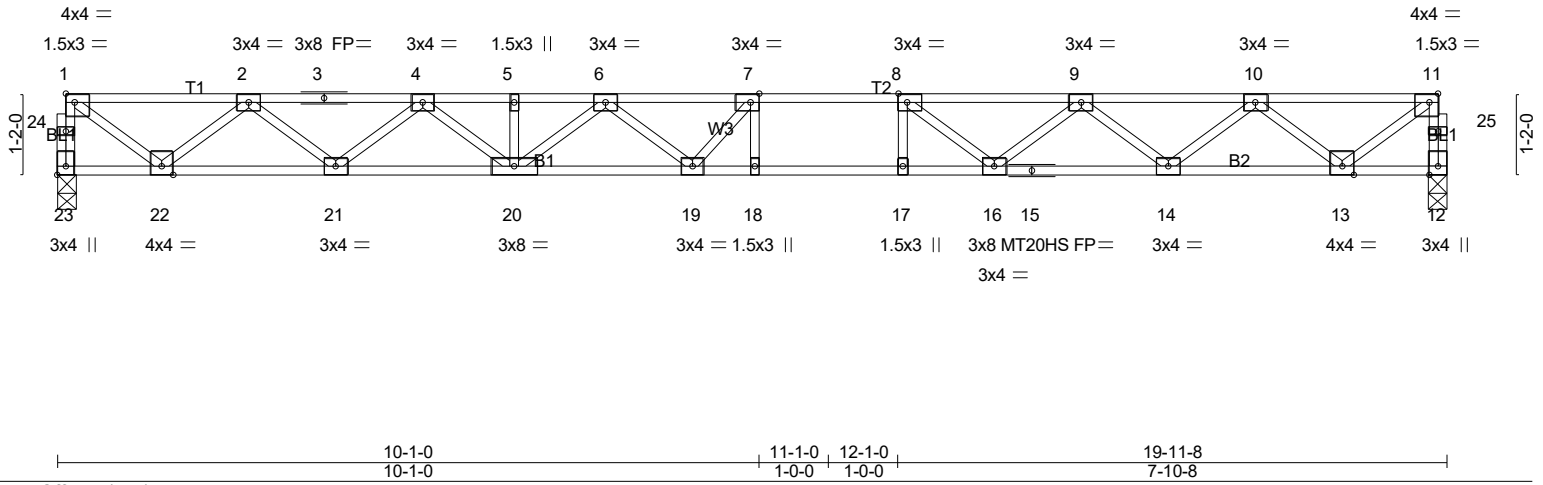
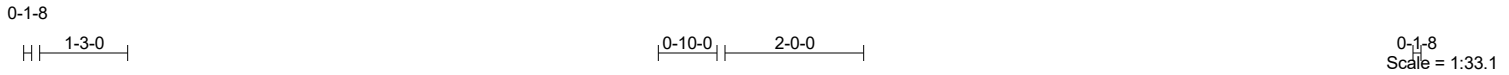


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|--------------------|--------------|---------------------|----------|----------|--|
| Job 24-6504-F02 | Truss F07 | Truss Type FLOOR | Qty 6 | Ply 1 | LOT 0.0008 HONEYCUTT HILLS 155 SHELBY MEADOW LANE ANGIER, NC Job Reference (optional) # 51009 |
|--------------------|--------------|---------------------|----------|----------|--|

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| | | | | | |
|--|-----------------------|-------------|----------------------------------|---------------|--------------------------------|
| Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [8:0-1-8,Edge], [11:0-1-8,Edge], [23:Edge,0-1-8] | | | | | |
| LOADING (psf) | SPACING- 1-4-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 40.0 | Plate Grip DOL 1.00 | TC 0.43 | Vert(LL) -0.32 18 >736 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.99 | Vert(CT) -0.44 18-19 >535 360 | MT20HS | 187/143 |
| BCLL 0.0 | Rep Stress Incr YES | WB 0.49 | Horz(CT) 0.06 12 n/a n/a | | |
| BCDL 5.0 | Code IRC2021/TPI2014 | Matrix-SH | | | Weight: 100 lb FT = 20%F, 11%E |

| | |
|-----------------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.1(flat) | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1(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: 18-19,17-18. |

REACTIONS. (lb/size) 23=718/0-3-8 (min. 0-1-8), 12=718/0-3-0 (min. 0-1-8)

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

TOP CHORD 23-24=-715/0, 1-24=-714/0, 12-25=-714/0, 11-25=-713/0, 1-2=-855/0, 2-3=-2137/0, 3-4=-2137/0, 4-5=-2994/0, 5-6=-2994/0, 6-7=-3356/0, 7-8=-3344/0, 8-9=-2961/0, 9-10=-2139/0, 10-11=-854/0

BOT CHORD 21-22=0/1614, 20-21=0/2638, 19-20=0/3277, 18-19=0/3344, 17-18=0/3344, 16-17=0/3344, 15-16=0/2637, 14-15=0/2637, 13-14=0/1614

WEBS 1-22=0/1037, 2-22=-987/0, 2-21=0/681, 4-21=-652/0, 4-20=0/455, 6-20=-361/0, 6-19=-49/276, 8-16=-623/0, 9-16=0/468, 9-14=-648/0, 10-14=0/684, 10-13=-988/0, 11-13=0/1036, 7-19=-288/250

NOTES- (4)

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- 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

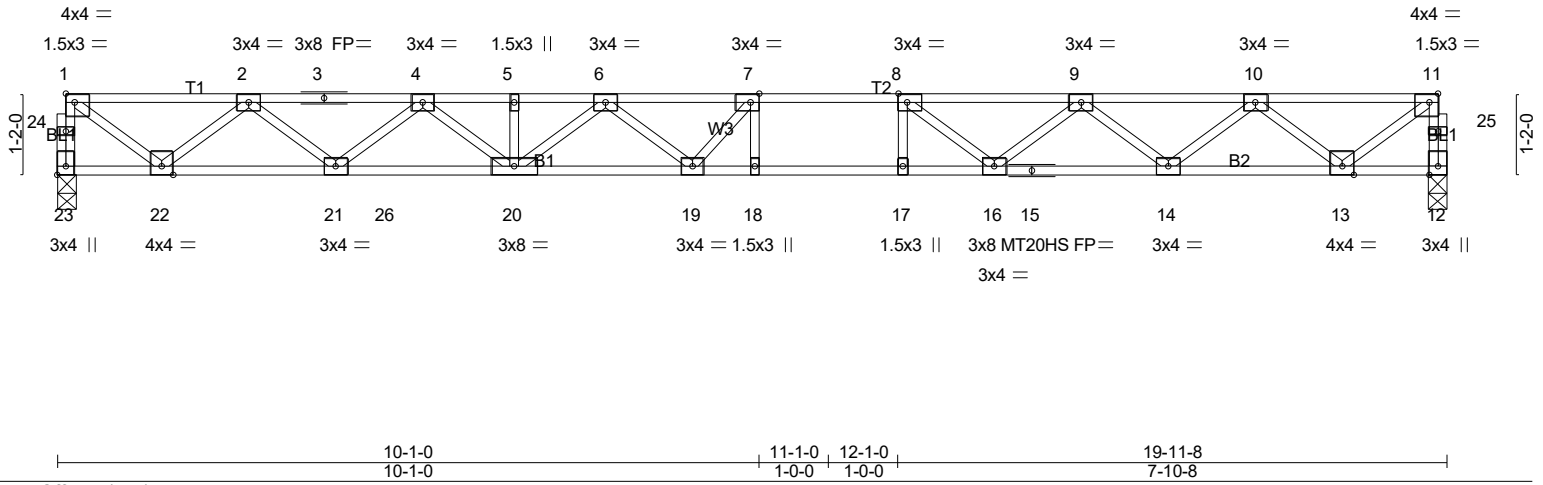
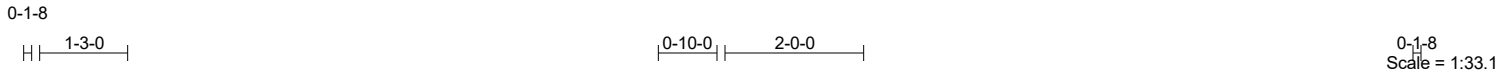


8/2/2024

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| | | | | | | |
|--------------------|--------------|---------------------|----------|----------|--|---------|
| Job 24-6504-F02 | Truss F08 | Truss Type FLOOR | Qty 1 | Ply 1 | LOT 0.0008 HONEYCUTT HILLS 155 SHELBY MEADOW LANE ANGIER, NC | # 51009 |
|--------------------|--------------|---------------------|----------|----------|--|---------|

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Aug 3 13:34:03 2024 Page 1
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| | | | | | |
|--|-----------------------|-------------|----------------------------------|--------------------------------|-------------|
| Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [8:0-1-8,Edge], [11:0-1-8,Edge], [23:Edge,0-1-8] | | | | | |
| LOADING (psf) | SPACING- 1-4-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 40.0 | Plate Grip DOL 1.00 | TC 0.52 | Vert(LL) -0.31 18 >774 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.70 | Vert(CT) -0.42 18-19 >563 360 | MT20HS | 187/143 |
| BCLL 0.0 | Rep Stress Incr NO | WB 0.49 | Horz(CT) 0.06 12 n/a n/a | Weight: 100 lb FT = 20%F, 11%E | |
| BCDL 5.0 | Code IRC2021/TPI2014 | Matrix-SH | | | |

| | |
|---|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.1(flat) | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP SS(flat) *Except* B2: 2x4 SP No.1(flat) | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS 2x4 SP No.3(flat) | |

REACTIONS. (lb/size) 23=718/0-3-8 (min. 0-1-8), 12=718/0-3-0 (min. 0-1-8)
Max Horz 23=26(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 23-24=-715/0, 1-24=-713/0, 12-25=-714/0, 11-25=-713/0, 1-2=-855/0, 2-3=-2137/0,
3-4=-2137/0, 4-5=-2993/0, 5-6=-2993/0, 6-7=-3357/0, 7-8=-3344/0, 8-9=-2960/0,
9-10=-2140/0, 10-11=-854/0
BOT CHORD 21-22=-34/1613, 21-26=-137/2654, 20-26=-2/2638, 19-20=0/3276, 18-19=-4/3344,
17-18=0/3344, 16-17=0/3344, 15-16=0/2638, 14-15=0/2638, 13-14=0/1614
WEBS 7-18=-330/214, 8-17=-153/281, 1-22=0/1037, 2-22=-987/16, 2-21=-52/710, 4-21=-684/82,
4-20=-121/537, 6-20=-422/106, 6-19=-217/399, 8-16=-776/274, 9-16=-135/551,
9-14=-663/62, 10-14=-47/709, 10-13=-988/22, 11-13=0/1036, 7-19=-487/466

- NOTES-** (5)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) This truss has been designed for a total drag load of 125 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 4-8-12 to 19-11-8 for 163.8 plf.
 - 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

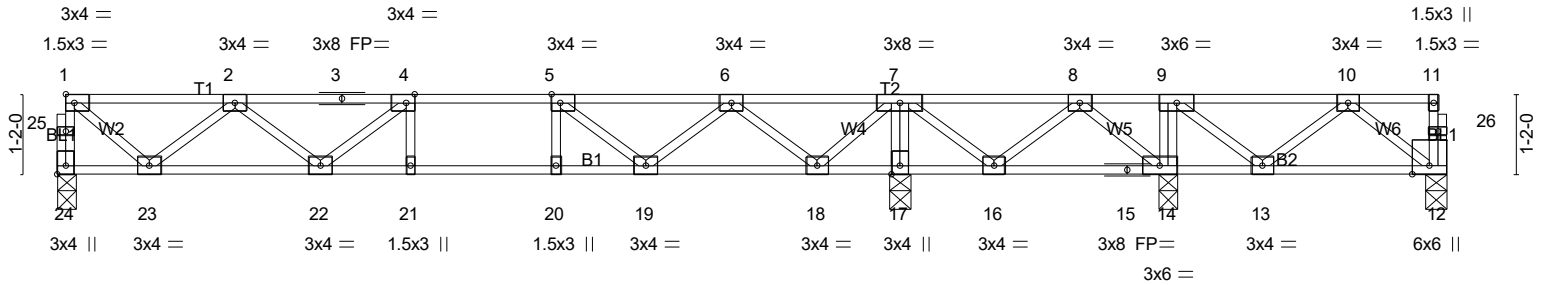


8/2/2024

Warning !—Verify design parameters and read notes before use. This design is based only 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 building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

| | | | | | | |
|--------------------|--------------|---------------------|----------|----------|--|---------|
| Job 24-6504-F02 | Truss F09 | Truss Type Floor | Qty 1 | Ply 1 | LOT 0.0008 HONEYCUTT HILLS 155 SHELBY MEADOW LANE ANGIER, NC | # 51009 |
|--------------------|--------------|---------------------|----------|----------|--|---------|

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| | | | | | |
|---|--------|--------|---------|---------|--------|
| 5-2-10 | 6-2-10 | 7-2-10 | 12-3-10 | 16-2-10 | 20-3-6 |
| 5-2-10 | 1-0-0 | 1-0-0 | 5-1-0 | 3-11-0 | 4-0-12 |
| Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [24:Edge,0-1-8] | | | | | |

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|-------------|--------|-----|----------------|-----------------|
| 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 0.28 | Vert(LL) | -0.07 21-22 | >999 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.00 | BC 0.47 | Vert(CT) | -0.10 21-22 | >999 | 360 | | |
| BCLL 0.0 | Rep Stress Incr | YES | WB 0.36 | Horz(CT) | 0.01 17 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | |
| | | | | | | | | Weight: 105 lb | FT = 20%F, 11%E |

| | |
|-----------------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.1(flat) | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1(flat) | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS 2x4 SP No.3(flat) | |

REACTIONS. All bearings 0-3-8 except (jt=length) 24=0-3-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 12 except 24=471(LC 5), 17=940(LC 3), 14=350(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 24-25=-466/0, 1-25=-465/0, 1-2=-464/0, 2-3=-1088/0, 3-4=-1088/0, 4-5=-1196/0, 5-6=-818/0, 6-7=-117/290, 7-8=0/468
BOT CHORD 22-23=0/921, 21-22=0/1196, 20-21=0/1196, 19-20=0/1196, 18-19=0/481, 17-18=-788/0, 16-17=-784/0, 15-16=-255/58, 14-15=-255/58
WEBS 7-17=-922/0, 9-14=-256/0, 2-23=-596/0, 1-23=0/587, 5-19=-491/0, 6-19=0/445, 6-18=-744/0, 7-18=0/755, 7-16=0/398, 8-16=-359/0, 8-14=-155/267

- NOTES-** (4-7)
- Unbalanced floor live loads have been considered for this design.
 - 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.
 - CAUTION, Do not erect truss backwards.
 - Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

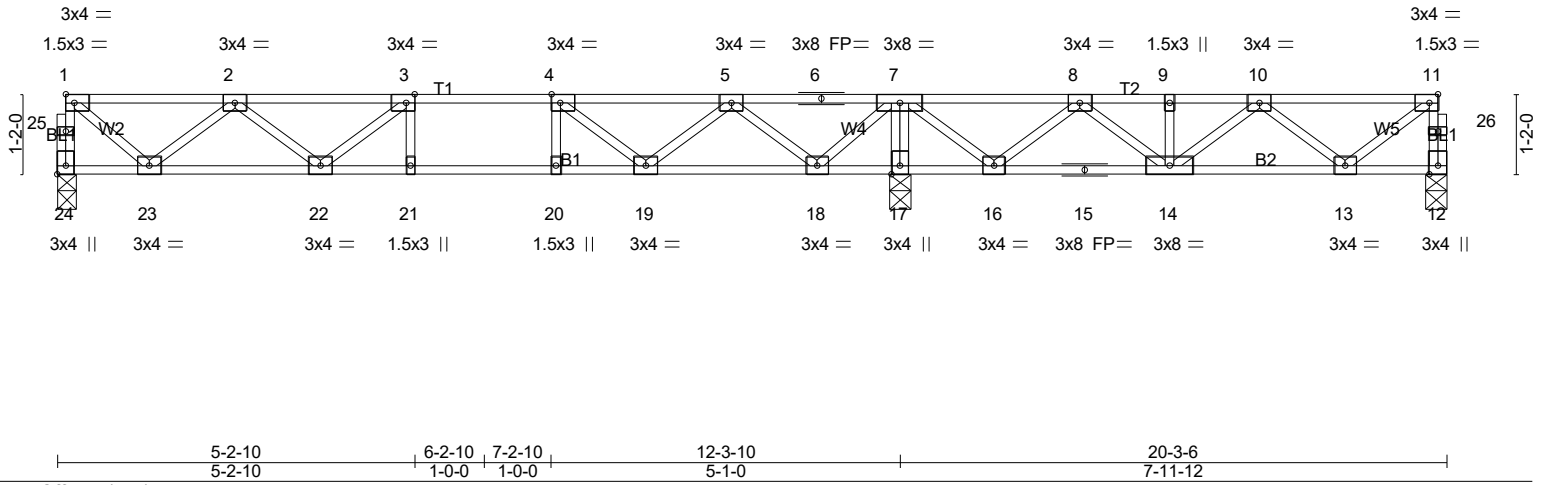


8/2/2024

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| | | | | | | |
|--------------------|--------------|---------------------|----------|----------|--|---------|
| Job 24-6504-F02 | Truss F10 | Truss Type Floor | Qty 1 | Ply 1 | LOT 0.0008 HONEYCUTT HILLS 155 SHELBY MEADOW LANE ANGIER, NC | # 51009 |
|--------------------|--------------|---------------------|----------|----------|--|---------|

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| | | | | | |
|--|-----------------------|-------------|----------------------------------|---------------|--------------------------------|
| Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [11:0-1-8,Edge], [24:Edge,0-1-8] | | | | | |
| 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 0.30 | Vert(LL) -0.07 21-22 >999 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.49 | Vert(CT) -0.10 21-22 >999 360 | | |
| BCLL 0.0 | Rep Stress Incr YES | WB 0.36 | Horz(CT) 0.01 12 n/a n/a | | |
| BCDL 5.0 | Code IRC2021/TPI2014 | Matrix-SH | | | Weight: 104 lb FT = 20%F, 11%E |

| | |
|-----------------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.1(flat) | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1(flat) | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS 2x4 SP No.3(flat) | |

REACTIONS. (lb/size) 24=462/0-3-6 (min. 0-1-8), 12=234/0-3-8 (min. 0-1-8), 17=1055/0-3-8 (min. 0-1-8)
Max Grav 24=473(LC 3), 12=295(LC 4), 17=1055(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 24-25=-468/0, 1-25=-467/0, 12-26=-291/0, 11-26=-291/0, 1-2=-466/0, 2-3=-1096/0, 3-4=-1208/0, 4-5=-835/0, 5-6=-1/353, 6-7=-1/353, 7-8=-64/449, 8-9=-477/152, 9-10=-477/152, 10-11=-275/20
BOT CHORD 22-23=0/926, 21-22=0/1208, 20-21=0/1208, 19-20=0/1208, 18-19=-4/501, 17-18=-857/0, 16-17=-852/0, 15-16=-292/385, 14-15=-292/385, 13-14=-59/505
WEBS 7-17=-1035/0, 2-23=-599/0, 1-23=0/590, 4-19=-511/0, 5-19=0/458, 5-18=-742/0, 7-18=0/754, 7-16=0/568, 8-16=-523/0, 10-13=-299/51, 11-13=-25/331

- NOTES-** (4-7)
- Unbalanced floor live loads have been considered for this design.
 - 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.
 - CAUTION, Do not erect truss backwards.
 - Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

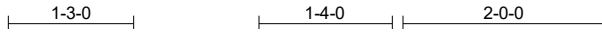


8/2/2024

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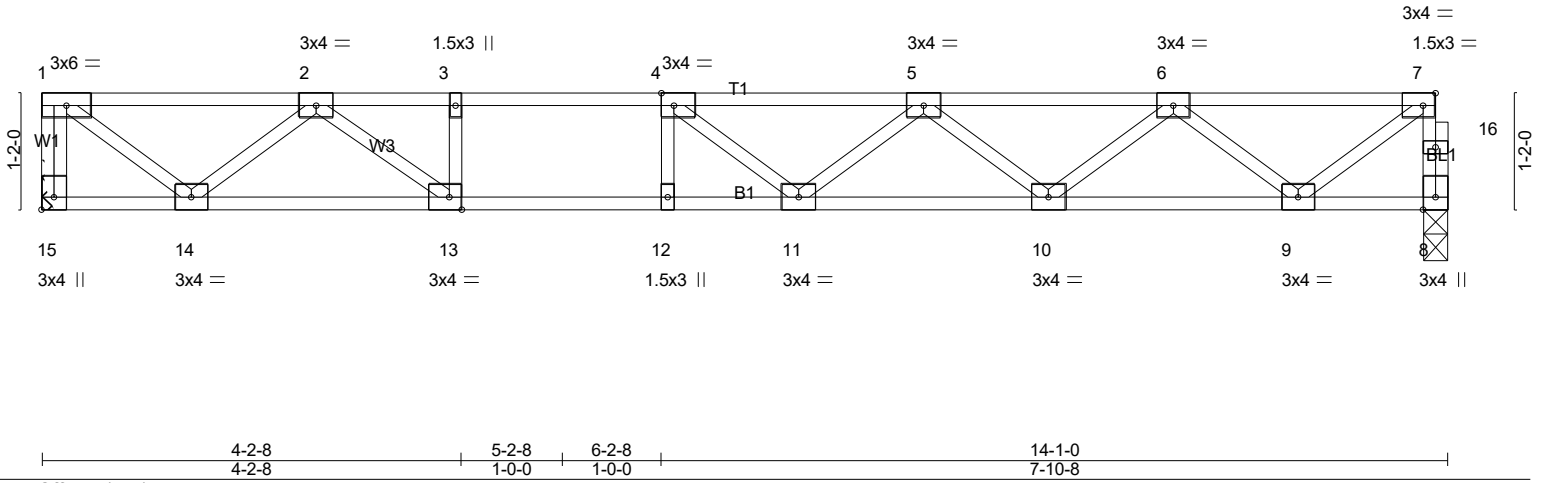
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|--------------------|--------------|---------------------|----------|----------|--|---------|
| Job 24-6504-F02 | Truss F12 | Truss Type Floor | Qty 2 | Ply 1 | LOT 0.0008 HONEYCUTT HILLS 155 SHELBY MEADOW LANE ANGIER, NC | # 51009 |
|--------------------|--------------|---------------------|----------|----------|--|---------|

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0-1-8

Scale = 1:23.1



| | | | | | |
|----------------------|----------------------|-------------|-------------------------------|---------------|-----------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 40.0 | 1-7-3 | TC 0.63 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.00 | BC 0.88 | Vert(LL) -0.18 11-12 >918 480 | | |
| BCLL 0.0 | Lumber DOL 1.00 | WB 0.39 | Vert(CT) -0.24 11-12 >679 360 | | |
| BCDL 5.0 | Rep Stress Incr YES | Matrix-SH | Horz(CT) 0.03 8 n/a n/a | | |
| | Code IRC2021/TPI2014 | | | Weight: 70 lb | FT = 20%F, 11%E |

| | |
|-----------------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.1(flat) | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1(flat) | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3(flat) | |

REACTIONS. (lb/size) 15=608/Mechanical, 8=603/0-3-0 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-15=-584/0, 8-16=-600/0, 7-16=-599/0, 1-2=-647/0, 2-3=-1848/0, 3-4=-1848/0, 4-5=-1966/0, 5-6=-1613/0, 6-7=-684/0
 BOT CHORD 13-14=0/1288, 12-13=0/1848, 11-12=0/1848, 10-11=0/1937, 9-10=0/1278
 WEBS 3-13=-291/0, 1-14=0/812, 2-14=-834/0, 2-13=0/782, 4-11=-129/255, 5-10=-423/0, 6-10=0/436, 6-9=-772/0, 7-9=0/828

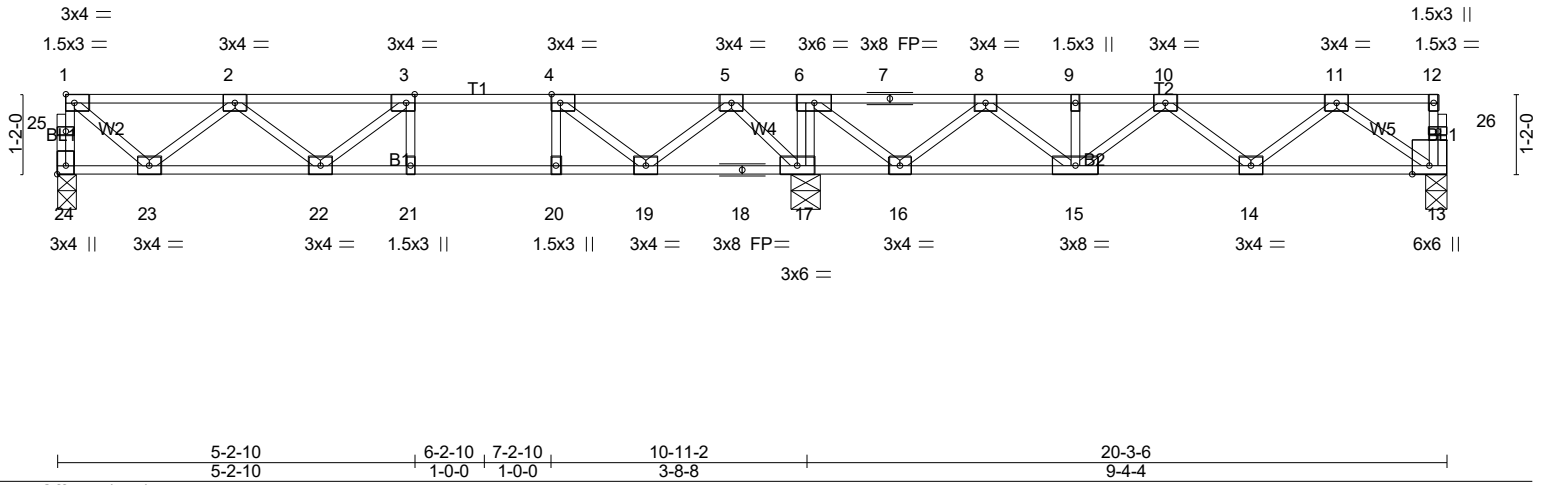
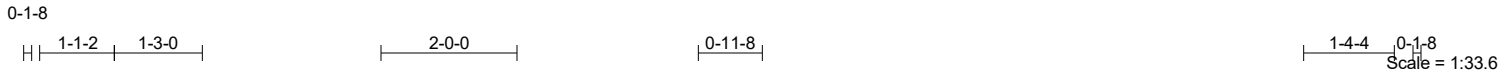
- NOTES-** (5)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



8/2/2024

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| | | | | | |
|----------------------|----------------------|-------------|-------------------------------|---------------|--------------------------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 40.0 | 1-7-3 | TC 0.35 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.00 | BC 0.53 | Vert(LL) -0.08 21-22 >999 480 | | |
| BCLL 0.0 | Lumber DOL 1.00 | WB 0.29 | Vert(CT) -0.10 21-22 >999 360 | | |
| BCDL 5.0 | Rep Stress Incr YES | Matrix-SH | Horz(CT) 0.02 13 n/a n/a | | |
| | Code IRC2021/TPI2014 | | | | Weight: 104 lb FT = 20%F, 11%E |

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 17-19,16-17.

REACTIONS. (lb/size) 24=425/0-3-6 (min. 0-1-8), 17=979/0-5-8 (min. 0-1-8), 13=348/0-3-8 (min. 0-1-8)
Max Grav 24=443(LC 3), 17=979(LC 1), 13=379(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 24-25=-438/0, 1-25=-437/0, 1-2=-432/0, 2-3=-989/0, 3-4=-1037/0, 4-5=-588/25, 5-6=0/602, 6-7=-262/124, 7-8=-262/124, 8-9=-767/0, 9-10=-767/0, 10-11=-666/0
BOT CHORD 22-23=0/860, 21-22=0/1037, 20-21=0/1037, 19-20=0/1037, 16-17=-602/0, 15-16=0/622, 14-15=0/826, 13-14=0/479
WEBS 6-17=-526/0, 2-23=-557/0, 1-23=0/546, 4-19=-629/0, 5-19=0/529, 5-17=-650/0, 6-16=0/599, 8-16=-551/0, 8-15=0/266, 11-13=-584/0

- NOTES-** (4-7)
- Unbalanced floor live loads have been considered for this design.
 - 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.
 - CAUTION. Do not erect truss backwards.
 - Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



8/2/2024

Warning!—Verify design parameters and read notes before use. This design is based only 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 building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.