# 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 #: 48049
JOB: 24-3417-R01
JOB NAME: LOT 0.0025 HONEYCUTT HILLS
Wind Code: ASCE7-16
Wind Speed: Vult= 115mph
Exposure Category: B
Mean Roof Height (feet): 23
These truss designs comply with IRC 2015 as well as IRC 2018.
*66 Truss Design(s)*

Trusses:
GR01, GR02, GR03, GR04, GR05, GR06, GR07, J01, J02, J02A, J03, J04, J05, J06, J06A, J07, J08, J09, J10, J11, J12, J13, J14, J15, PB01, PB02, PB03, PB04, R01, R02, R03, R04, R05, R06, R07, R08, R09, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R30A, R31, R32, R33, R35, R35A, VT01, VT02


**5/2/2024**
**Mark Morris**

***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*,

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | GR01 | Common | 3 | 1 | # 48049 |
| | | | | | Job Reference (optional) |

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu May 2 21:33:35 2024 Page 1
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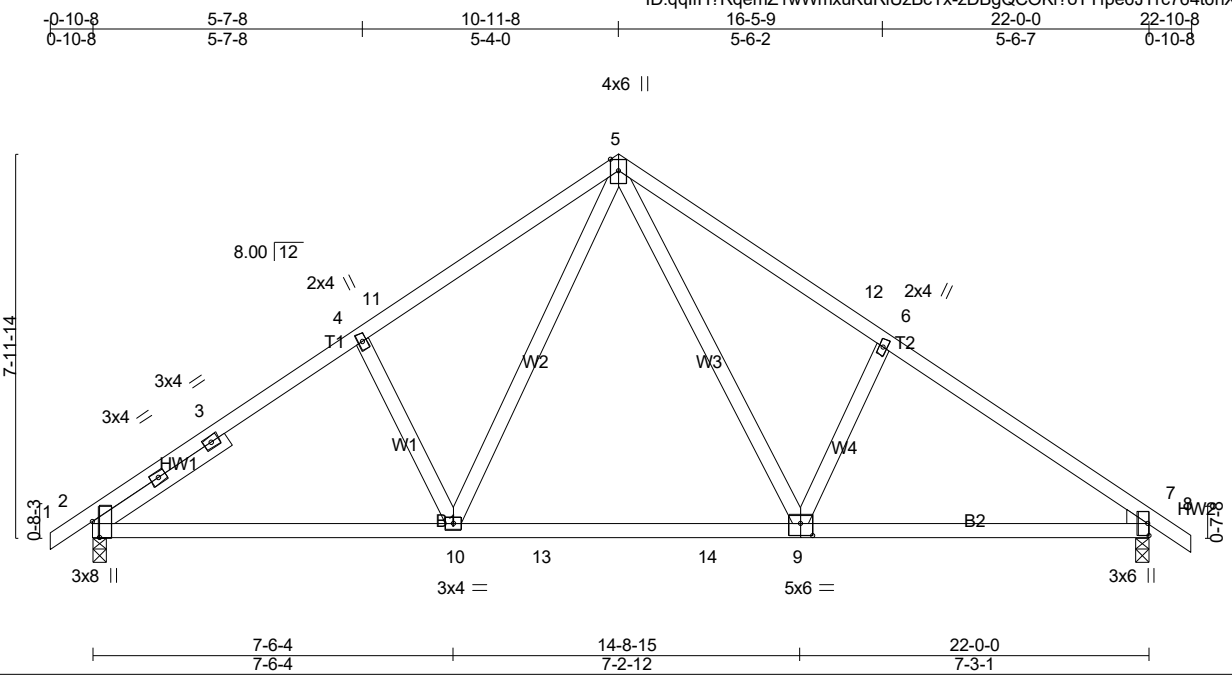



Plate Offsets (X,Y)-- [2:0-4-0,Edge], [9:0-3-0,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.41 | Vert(LL) | -0.19 | 9-10 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.66 | Vert(CT) | -0.24 | 9-10 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.20 | Horz(CT) | 0.03 | 7 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | | Weight: 118 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -° 3-3-15

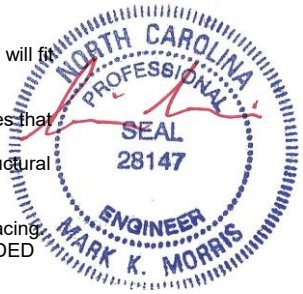
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-10-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=926/0-3-8 (min. 0-1-8), 7=936/0-3-8 (min. 0-1-8)
Max Horz 2=-142(LC 10)
Max Uplift2=-51(LC 12), 7=-53(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1204/71, 3-4=-1075/100, 4-11=-1095/119, 5-11=-1015/146, 5-12=-1045/150, 6-12=-1131/122, 6-7=-1241/97
BOT CHORD 2-10=-77/1019, 10-13=0/690, 13-14=0/690, 9-14=0/690, 7-9=-14/941
WEBS 4-10=-279/153, 5-10=-73/526, 5-9=-81/542, 6-9=-271/155

**NOTES-** (8-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 6-1-14, Exterior(2R) 6-1-14 to 15-9-1, Interior(1) 15-9-1 to 18-0-14, Exterior(2E) 18-0-14 to 22-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
8) 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.
9) 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.
10) 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.
11) 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.




5/2/2024

**LOAD CASE(S)** Standard

**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 | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | GR02 | HIP GIRDER | 1 | 1 | # 48049 |
| | | | | | Job Reference (optional) |

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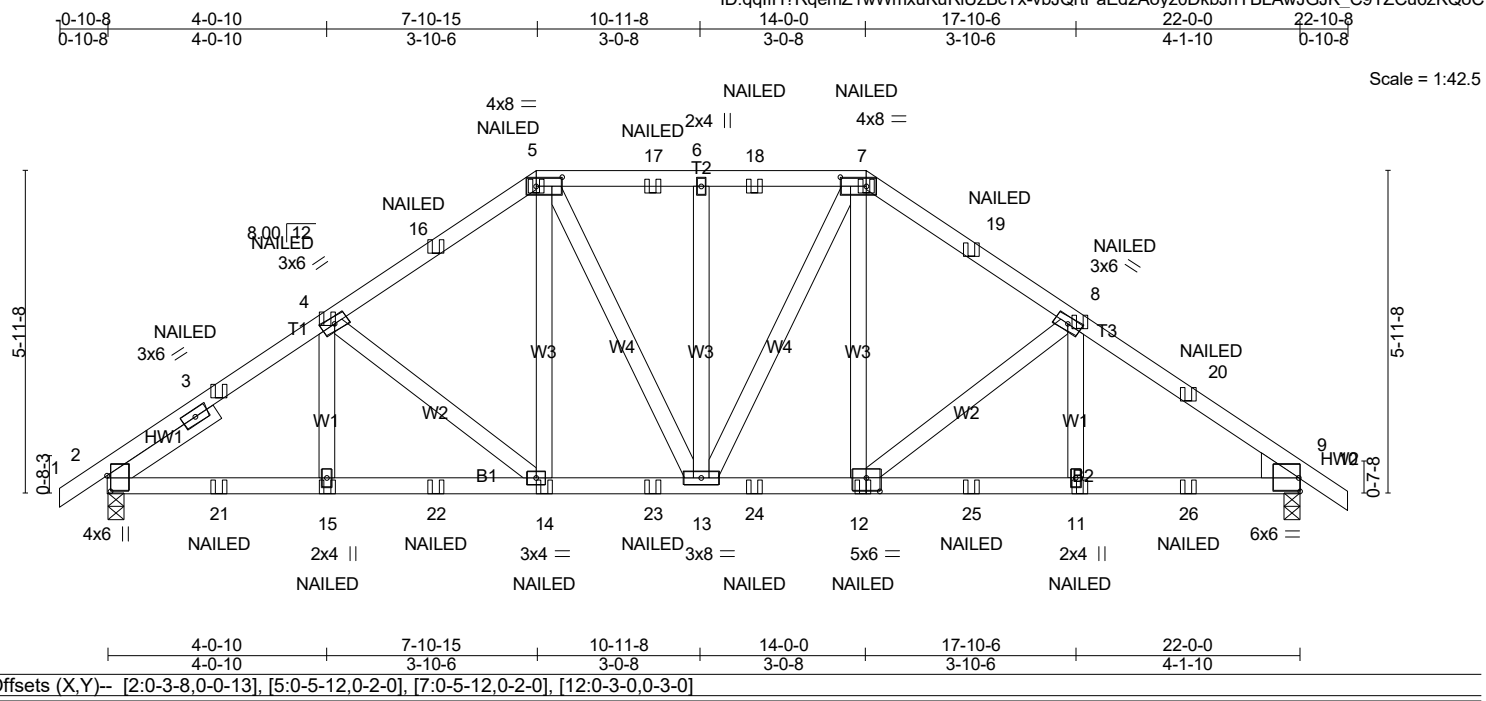


Plate Offsets (X,Y)-- [2:0-3-8,0-0-13], [5:0-5-12,0-2-0], [7:0-5-12,0-2-0], [12:0-3-0,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.75 | Vert(LL) | 0.06 | 14-15 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.89 | Vert(CT) | -0.11 | 14-15 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.19 | Horz(CT) | 0.05 | 9 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | | Weight: 143 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Right: 2x6 SP No.2
SLIDER Left 2x4 SP No.3 -° 2-4-7

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-7-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-6-13 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=1458/0-3-8 (min. 0-1-12), 9=1472/0-3-8 (min. 0-1-12)
Max Horz 2=-106(LC 34)
Max Uplift2=-353(LC 10), 9=-358(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2067/545, 3-4=-1957/544, 4-16=-1632/521, 5-16=-1569/536, 5-17=-1415/500, 6-17=-1414/499, 6-18=-1414/499, 7-18=-1415/500, 7-19=-1572/538, 8-19=-1649/515, 8-20=-1996/553, 9-20=-2104/554
BOT CHORD 2-21=-459/1582, 15-21=-459/1582, 15-22=-459/1582, 14-22=-459/1582, 14-23=-427/1324, 13-23=-427/1324, 13-24=-398/1316, 12-24=-398/1316, 12-25=-398/1601, 11-25=-398/1601, 11-26=-398/1601, 9-26=-398/1601
WEBS 4-14=-342/89, 5-14=-88/401, 6-13=-283/199, 7-12=-92/410, 8-12=-376/101, 8-11=-11/271

**NOTES-** (11-14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=353, 9=358.
9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).


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Continued on page 2

**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.

11) 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.
12) 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.
13) 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.
14) 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
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 5-7=-60, 7-10=-60, 2-9=-20
Concentrated Loads (lb)
Vert: 5=-67(F) 7=-67(F) 12=-38(F) 4=-48(F) 15=-58(F) 14=-38(F) 8=-48(F) 11=-58(F) 3=-63(F) 16=-15(F) 17=-67(F) 18=-67(F) 19=-15(F) 20=-63(F) 21=-43(F) 22=-97(F) 23=-38(F) 24=-38(F) 25=-97(F) 26=-43(F)


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | GR03 | Jack-Open | 2 | 1 | Job Reference (optional) **# 48049** |

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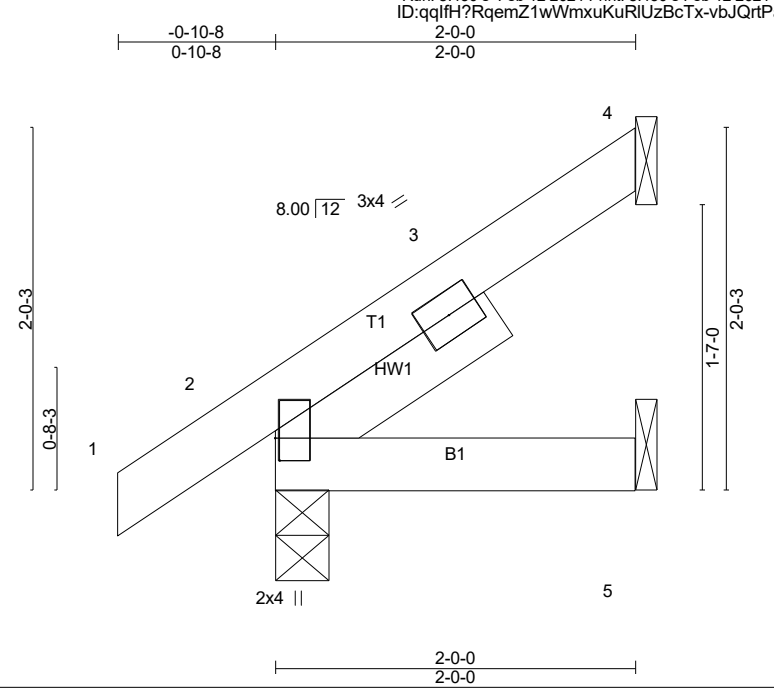



Plate Offsets (X,Y)-- [2:0-1-8,0-0-5]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.08 | Vert(LL) | -0.00 | 2 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(CT) | -0.00 | 2-5 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | Weight: 11 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x4 SP No.3 -° 1-5-0

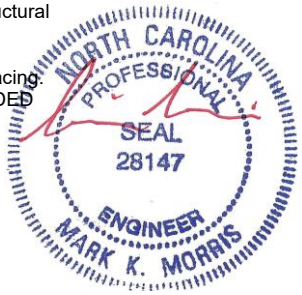
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 4=48/Mechanical, 2=144/0-3-8 (min. 0-1-8), 5=20/Mechanical
Max Horz 2=53(LC 12)
Max Uplift4=-35(LC 12), 2=-3(LC 12)
Max Grav 4=52(LC 20), 2=147(LC 18), 5=40(LC 5)

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

**NOTES-** (8-11)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
8) 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.
9) 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.
10) 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.
11) 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




5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | GR04 | Jack-Open Girder | 2 | 1 | # 48049 |
| | | | | | Job Reference (optional) |

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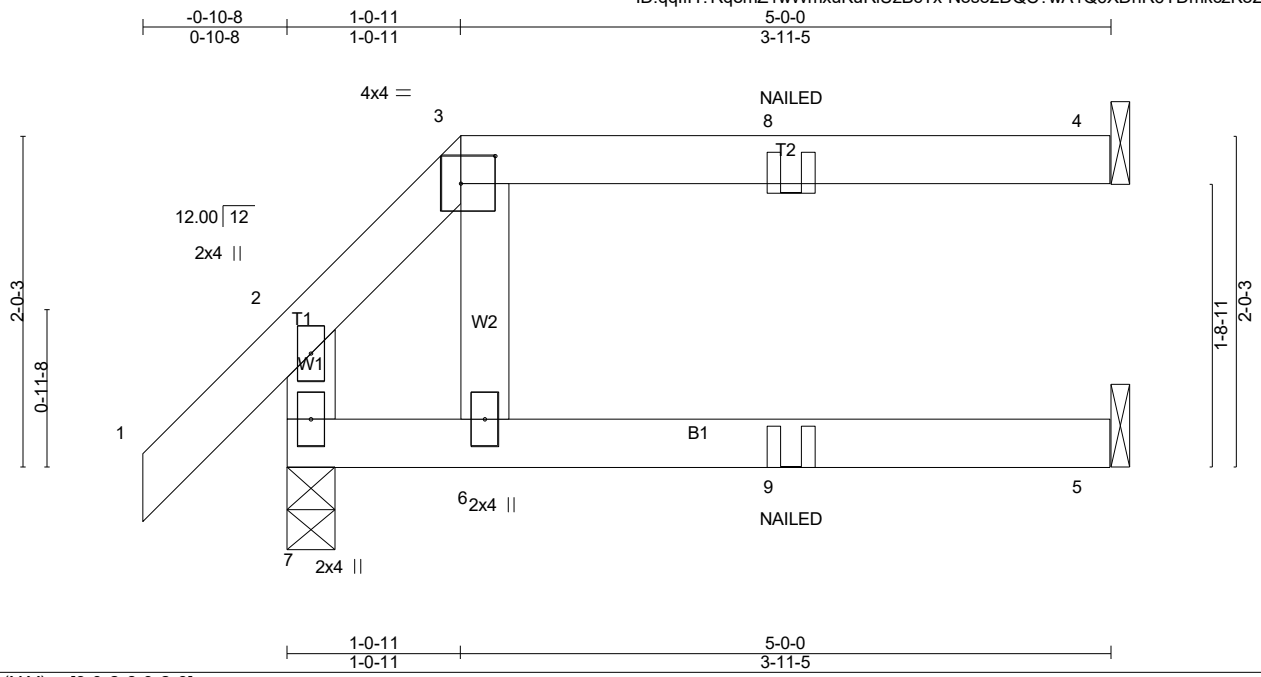



Plate Offsets (X,Y)-- [3:0-2-8,0-2-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.36 | Vert(LL) | -0.02 | 5-6 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.05 | 5-6 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.02 | Horz(CT) | 0.06 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | Weight: 21 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

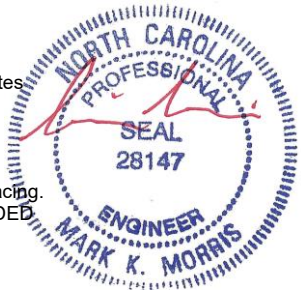
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 7=259/0-3-8 (min. 0-1-8), 4=122/Mechanical, 5=63/Mechanical
Max Horz 7=51(LC 10)
Max Uplift 7=-18(LC 10), 4=-40(LC 7)
Max Grav 7=259(LC 1), 4=123(LC 26), 5=87(LC 5)

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

**NOTES-** (12-15)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 4.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
12) 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.
13) 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.
14) 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.
15) 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

5/2/2024

Continued on page 2

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | GR05 | Jack-Open | 2 | 1 | **# 48049** Job Reference (optional) |

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu May 2 21:33:38 2024 Page 1
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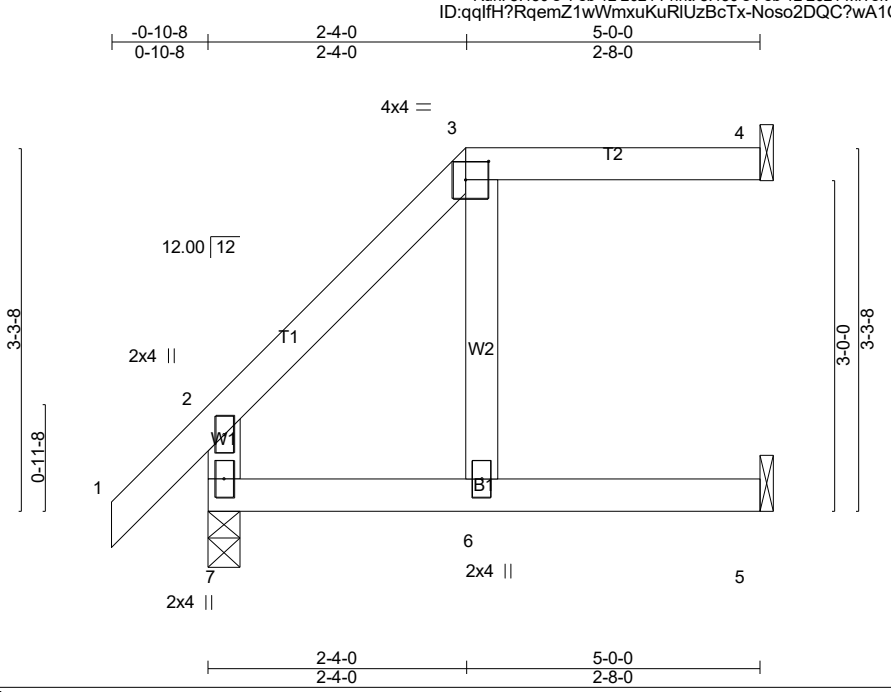



Plate Offsets (X,Y)-- [3:0-2-8,0-2-0]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.22 | Vert(LL) | 0.05 | 6 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.31 | Vert(CT) | -0.06 | 6 | >914 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.09 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | Weight: 23 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

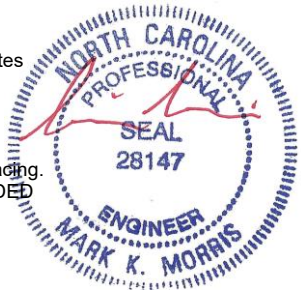
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 7=259/0-3-8 (min. 0-1-8), 4=108/Mechanical, 5=78/Mechanical
Max Horz 7=87(LC 12)
Max Uplift 7=-1(LC 12), 4=-27(LC 9), 5=-6(LC 12)
Max Grav 7=259(LC 1), 4=108(LC 1), 5=86(LC 5)

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

**NOTES-** (10-13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 4, 5.
10) 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.
11) 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.
12) 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.
13) 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

5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | GR06 | Jack-Open | 2 | 1 | Job Reference (optional) **# 48049** |

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu May 2 21:33:39 2024 Page 1
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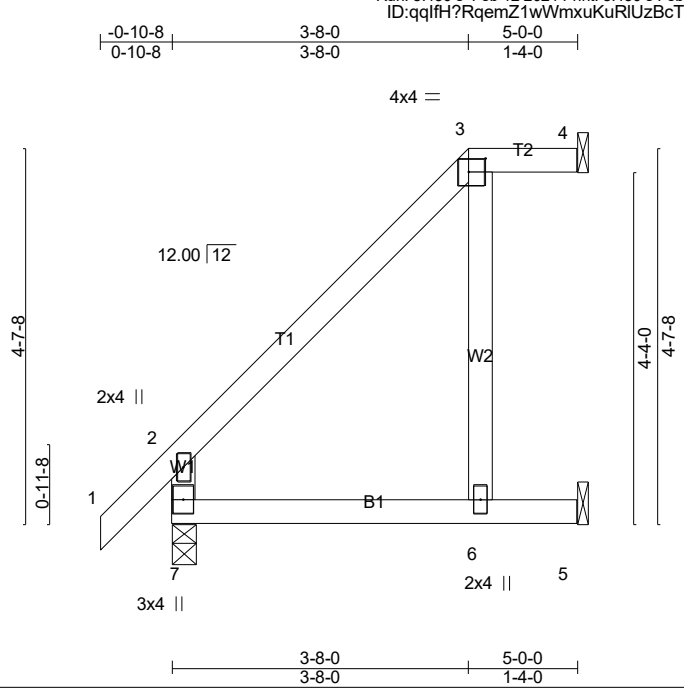



Plate Offsets (X,Y)-- [3:0-2-8,0-2-0]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.30 | Vert(LL) | 0.06 | 6-7 | >915 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.31 | Vert(CT) | -0.06 | 6-7 | >898 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | -0.08 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | Weight: 26 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

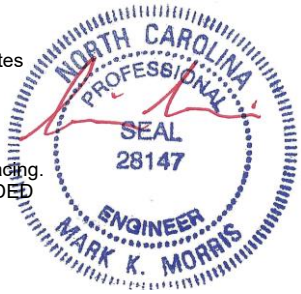
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 7=259/0-3-8 (min. 0-1-8), 4=68/Mechanical, 5=117/Mechanical
Max Horz 7=125(LC 12)
Max Uplift4=-8(LC 9), 5=-57(LC 12)
Max Grav 7=259(LC 1), 4=68(LC 1), 5=120(LC 20)

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

**NOTES-** (10-13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
10) 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.
11) 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.
12) 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.
13) 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

5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | GR07 | Jack-Open | 4 | 1 | Job Reference (optional) **# 48049** |

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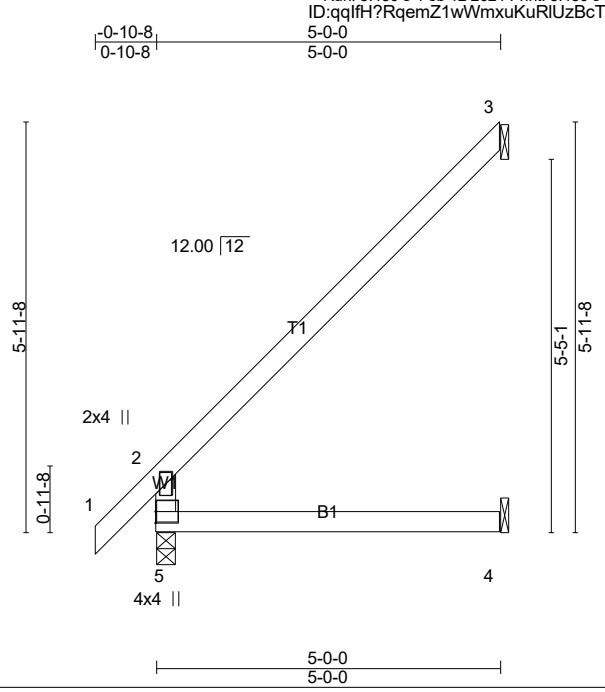



| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.57 | Vert(LL) | 0.05 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.41 | Vert(CT) | -0.06 | 4-5 | >995 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.05 | 3 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-R | | | | | | | Weight: 21 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

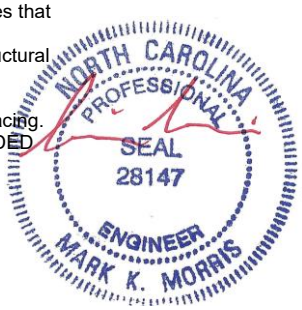
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 5=259/0-3-8 (min. 0-1-8), 3=127/Mechanical, 4=58/Mechanical
Max Horz 5=159(LC 12)
Max Uplift3=-103(LC 12), 4=-4(LC 12)
Max Grav 5=259(LC 1), 3=141(LC 20), 4=92(LC 5)

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

**NOTES-** (8-11)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=103.
8) 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.
9) 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.
10) 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.
11) 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




5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | J01 | Jack-Open Girder | 1 | 1 | Job Reference (optional) **# 48049** |

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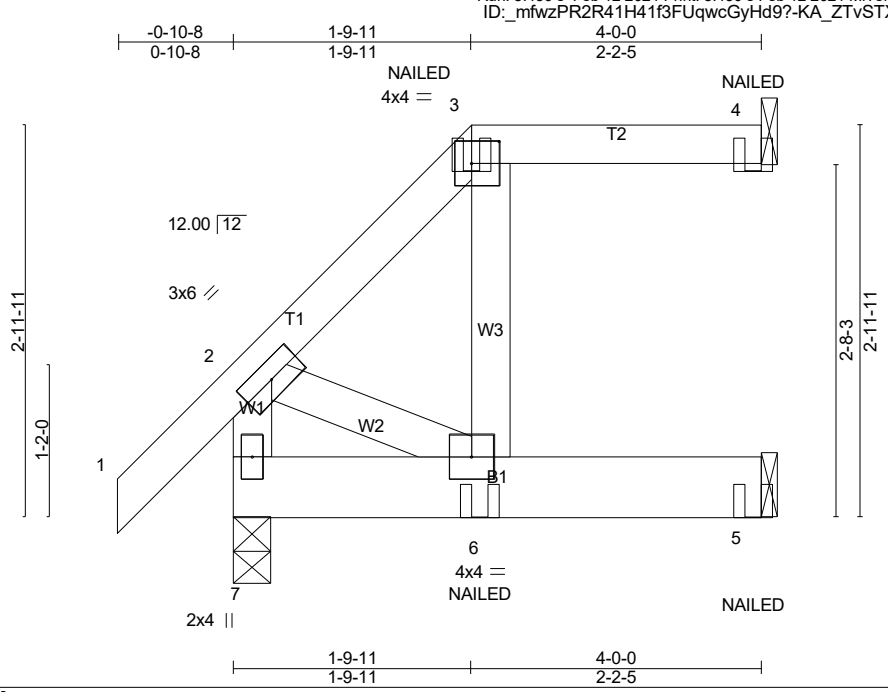


Scale = 1:17.4

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

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.14 | Vert(LL) | 0.01 | 6 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(CT) | -0.01 | 6 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.02 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | Weight: 25 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 7=227/0-3-8 (min. 0-1-8), 4=92/Mechanical, 5=100/Mechanical
Max Horz 7=72(LC 10)
Max Uplift 7=-23(LC 10), 4=-64(LC 6), 5=-22(LC 10)
Max Grav 7=227(LC 1), 4=92(LC 1), 5=128(LC 5)

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

**NOTES-** (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 4, 5.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 3=-4(F) 4=-28(F) 5=-15(F) 6=-7(F)


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | J02 | Jack-Open | 1 | 1 | Job Reference (optional) **# 48049** |

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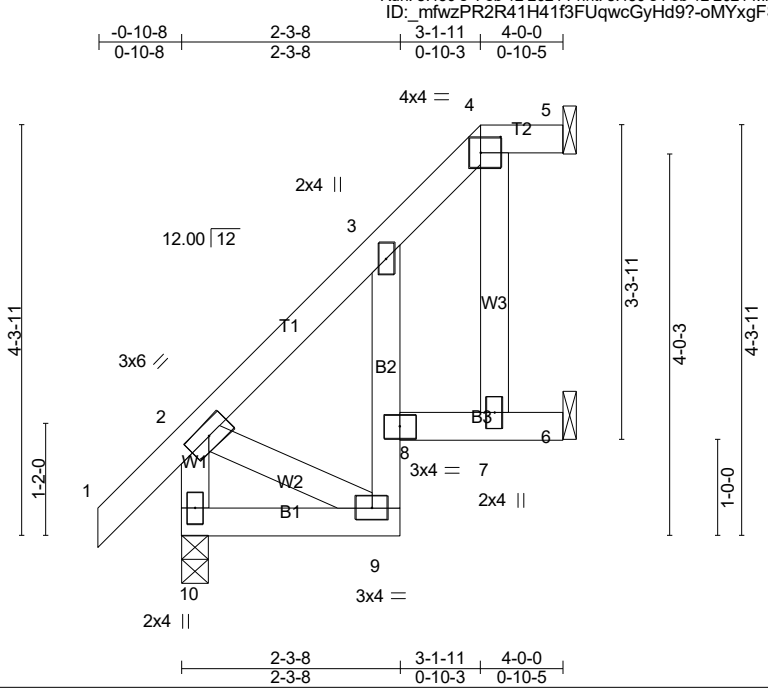



Plate Offsets (X,Y)-- [4:0-2-8,0-2-0]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | 0.02 | 8 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(CT) | -0.02 | 8 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | -0.02 | 5 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | | Weight: 28 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B2: 2x4 SP No.3
WEBS 2x4 SP No.3

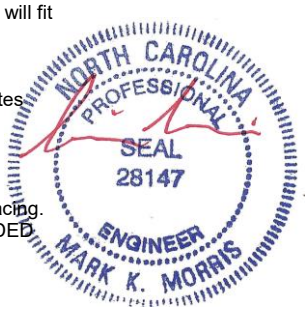
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 9-10.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 10=221/0-3-8 (min. 0-1-8), 5=38/Mechanical, 6=105/Mechanical
Max Horz 10=110(LC 12)
Max Uplift5=-10(LC 9), 6=-55(LC 12)
Max Grav 10=221(LC 1), 5=38(LC 1), 6=110(LC 20)

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

**NOTES-** (10-13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6.
10) 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.
11) 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.
12) 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.
13) 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

5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | J02A | Jack-Open | 1 | 1 | Job Reference (optional) **# 48049** |

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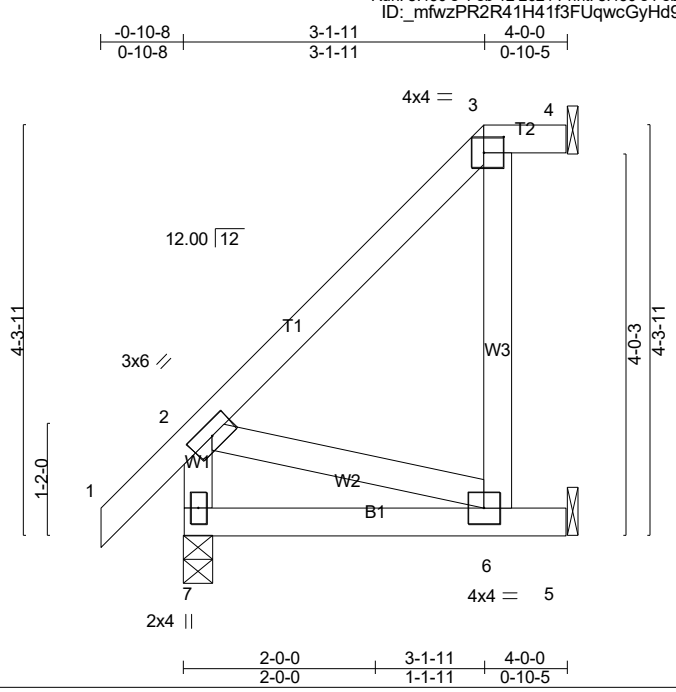



Plate Offsets (X,Y)-- [3:0-2-8,0-2-0]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | 0.02 | 6-7 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.19 | Vert(CT) | -0.03 | 6-7 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | 0.02 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 27 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

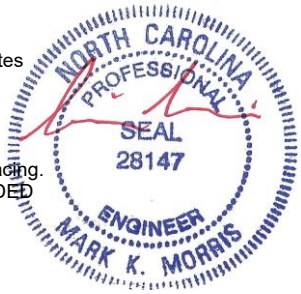
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 7=221/0-3-8 (min. 0-1-8), 4=24/Mechanical, 5=119/Mechanical
Max Horz 7=110(LC 12)
Max Uplift4=-7(LC 8), 5=-61(LC 12)
Max Grav 7=221(LC 1), 4=24(LC 1), 5=124(LC 20)

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

**NOTES-** (10-13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
10) 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.
11) 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.
12) 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.
13) 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

5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | J03 | Jack-Open | 4 | 1 | Job Reference (optional) **# 48049** |

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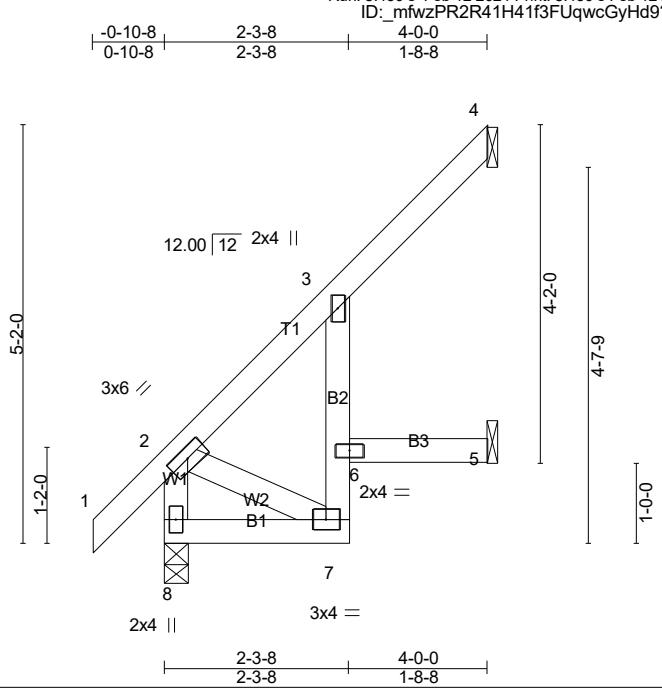



| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.37 | Vert(LL) | 0.08 | 7 | >591 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(CT) | -0.06 | 7 | >722 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.08 | Horz(CT) | -0.04 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | Weight: 25 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B2: 2x4 SP No.3
WEBS 2x4 SP No.3

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

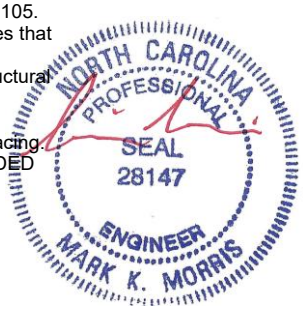
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 8=221/0-3-8 (min. 0-1-8), 4=126/Mechanical, 5=18/Mechanical
Max Horz 8=131(LC 12)
Max Uplift4=-105(LC 12)
Max Grav 8=221(LC 1), 4=144(LC 20), 5=36(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-7=-64/273

**NOTES-** (8-11)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=105.
8) 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.
9) 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.
10) 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.
11) 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




5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | J04 | Jack-Open | 18 | 1 | Job Reference (optional) **# 48049** |

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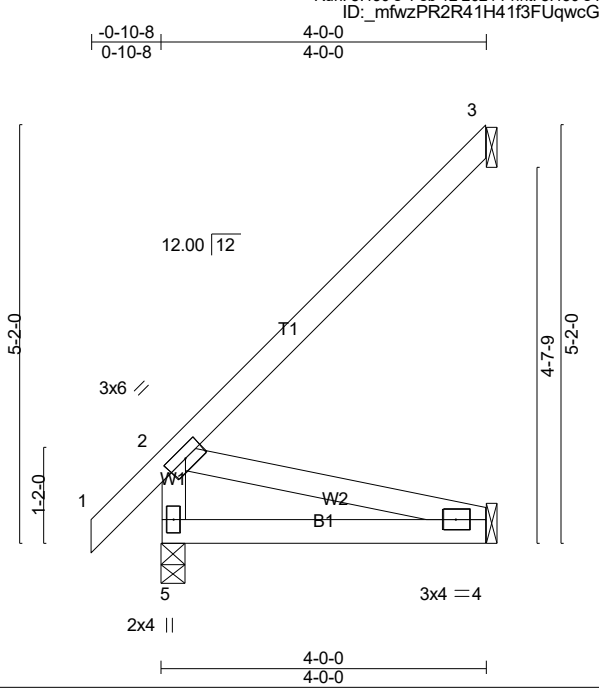



**LOADING** (psf)

| | |
|---|---|
| TCLL (roof) | 20.0 |
| Snow (Pf) | 20.0 |
| TCDL | 10.0 |
| BCLL | 0.0 * |
| BCDL | 10.0 |

**SPACING-** 2-0-0
Plate Grip DOL 1.15
Lumber DOL 1.15
Rep Stress Incr YES
Code IRC2021/TPI2014

**CSI.**

| | |
|---|---|
| TC | 0.26 |
| BC | 0.18 |
| WB | 0.08 |
| Matrix-P | |

**DEFL.**

| | in | (loc) | l/defl | L/d |
|---|---|---|---|---|
| Vert(LL) | -0.01 | 4-5 | >999 | 240 |
| Vert(CT) | -0.03 | 4-5 | >999 | 180 |
| Horz(CT) | -0.00 | 3 | n/a | n/a |

**PLATES** MT20 **GRIP** 244/190

Weight: 23 lb FT = 20%

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

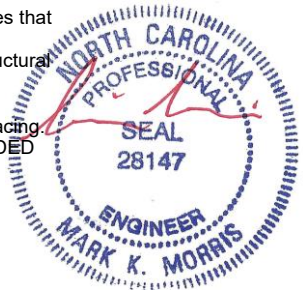
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 5=222/0-3-8 (min. 0-1-8), 3=106/Mechanical, 4=39/Mechanical
Max Horz 5=131(LC 12)
Max Uplift3=-82(LC 12), 4=-13(LC 12)
Max Grav 5=222(LC 1), 3=115(LC 20), 4=77(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-60/254

**NOTES-** (8-11)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
8) 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.
9) 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.
10) 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.
11) 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.




5/2/2024

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | J05 | Jack-Open Girder | 1 | 1 | **# 48049** |
| | | | | | Job Reference (optional) |

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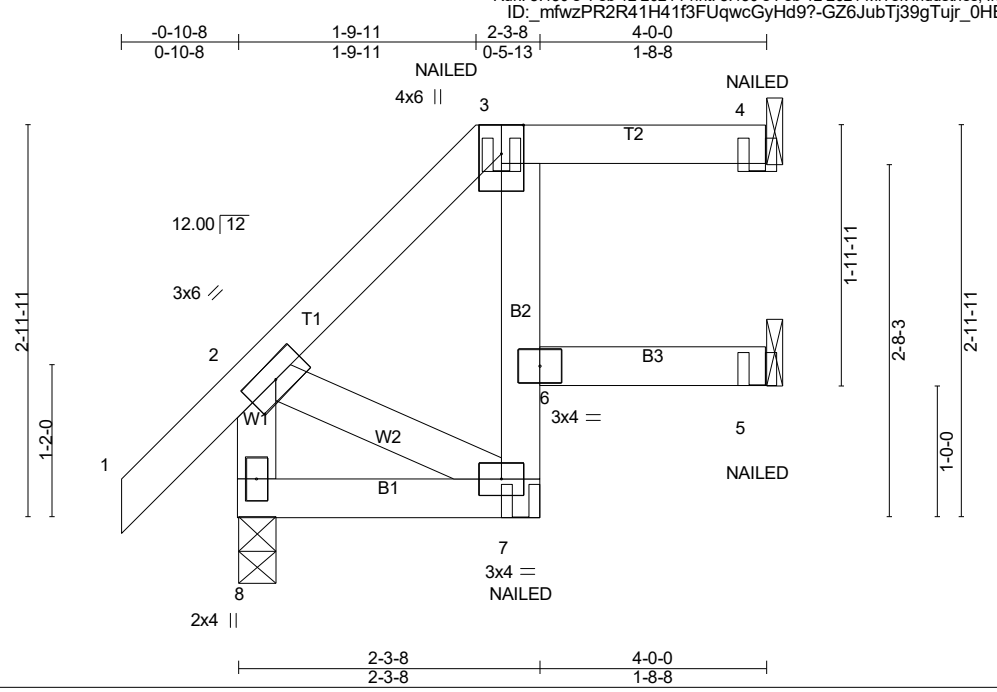



Scale = 1:17.4

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.17 | Vert(LL) | -0.01 | 6 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.25 | Vert(CT) | -0.02 | 6 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.03 | Horz(CT) | 0.02 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | Weight: 23 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

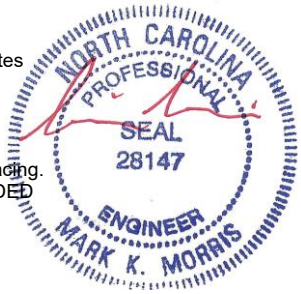
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 8=240/0-3-8 (min. 0-1-8), 4=111/Mechanical, 5=123/Mechanical
Max Horz 8=74(LC 10)
Max Uplift 8=-19(LC 10), 4=-41(LC 7), 5=-44(LC 10)
Max Grav 8=240(LC 1), 4=111(LC 26), 5=123(LC 1)

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

**NOTES-** (12-15)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 5.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
12) 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.
13) 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.
14) 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.
15) 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

5/2/2024

Continued on page 2

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-60, 2-3=-60, 3-4=-60, 7-8=-20, 5-6=-20
   Concentrated Loads (lb)
   Vert: 3=-27(B) 4=-21(B) 5=-49(B) 7=-11(B)


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | J06 | Jack-Open | 1 | 1 | **# 48049** Job Reference (optional) |

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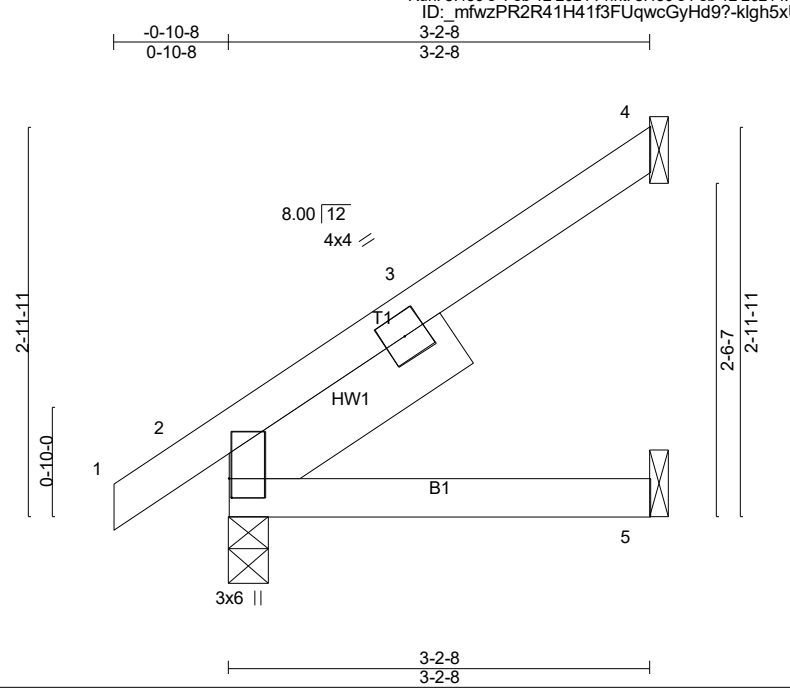



Plate Offsets (X,Y)-- [2:0-1-12,0-0-4]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.16 | Vert(LL) | -0.01 | 2-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.11 | Vert(CT) | -0.01 | 2-5 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 17 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -° 2-0-7

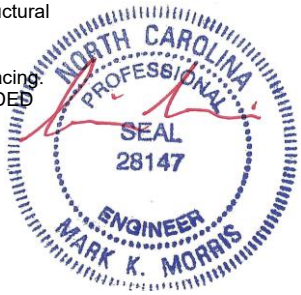
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-2-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 4=87/Mechanical, 2=186/0-3-8 (min. 0-1-8), 5=31/Mechanical
Max Horz 2=75(LC 12)
Max Uplift4=-57(LC 12)
Max Grav 4=92(LC 20), 2=186(LC 1), 5=63(LC 5)

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

**NOTES-** (8-11)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
8) 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.
9) 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.
10) 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.
11) 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




5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | J06A | Jack-Open | 1 | 1 | Job Reference (optional) **# 48049** |

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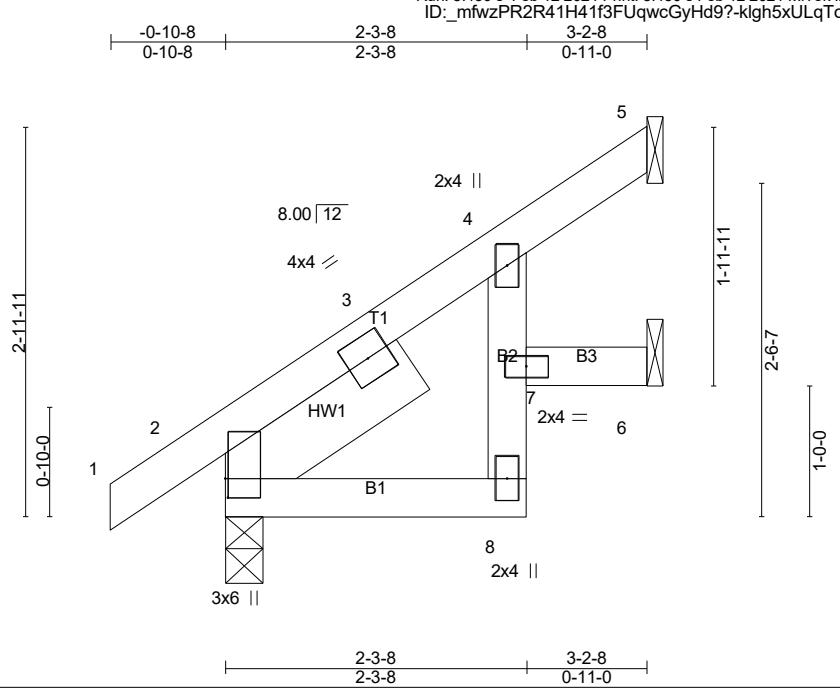



Plate Offsets (X,Y)-- [2:0-1-12,0-0-4]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.08 | Vert(LL) | -0.00 | 7 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.13 | Vert(CT) | -0.00 | 8 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-R | | | | | | | Weight: 19 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B2: 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -° 1-8-1

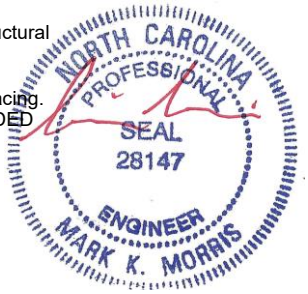
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-2-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 5=57/Mechanical, 2=186/0-3-8 (min. 0-1-8), 6=61/Mechanical
Max Horz 2=75(LC 12)
Max Uplift5=-22(LC 12), 6=-19(LC 12)
Max Grav 5=59(LC 20), 2=186(LC 1), 6=65(LC 20)

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

**NOTES-** (8-11)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6.
8) 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.
9) 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.
10) 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.
11) 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




5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | J07 | Jack-Open | 2 | 1 | **# 48049** |
| | | | | | Job Reference (optional) |

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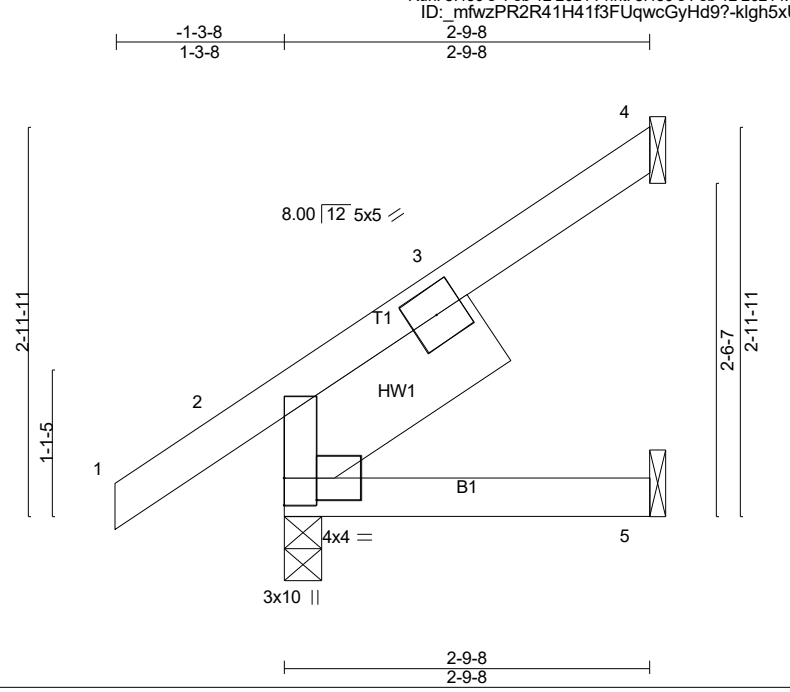


Plate Offsets (X,Y)-- [2:0-3-0,0-2-0]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.17 | Vert(LL) | -0.00 | 2-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(CT) | -0.01 | 2-5 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 18 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x8 SP No.2 -° 1-11-4

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-9-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 4=64/Mechanical, 2=205/0-3-8 (min. 0-1-8), 5=27/Mechanical
Max Horz 2=75(LC 12)
Max Uplift4=-55(LC 12)
Max Grav 4=71(LC 20), 2=214(LC 18), 5=55(LC 5)

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

**NOTES-** (8)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.

**LOAD CASE(S)** Standard


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | J08 | Jack-Open Girder | 2 | 1 | Job Reference (optional) **# 48049** |

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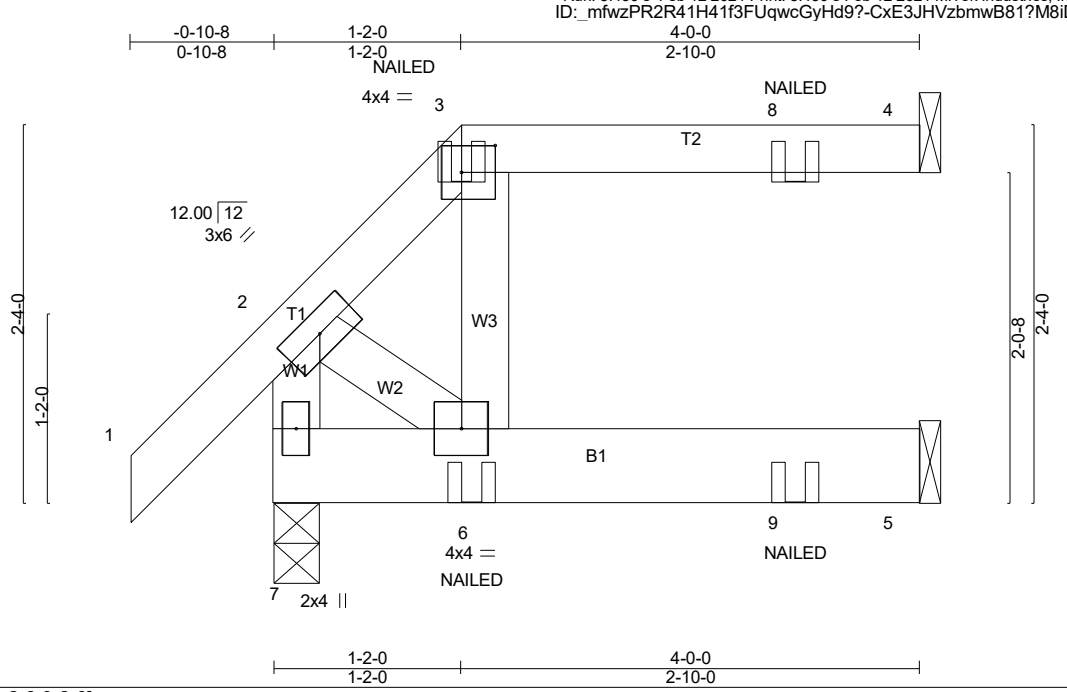


Scale = 1:14.2

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.16 | Vert(LL) | 0.01 | 6 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.11 | Vert(CT) | -0.01 | 5-6 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.02 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | Weight: 23 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 7=224/0-3-8 (min. 0-1-8), 4=86/Mechanical, 5=65/Mechanical
Max Horz 7=54(LC 10)
Max Uplift 7=-33(LC 10), 4=-45(LC 6), 5=-6(LC 10)
Max Grav 7=224(LC 1), 4=86(LC 1), 5=92(LC 5)

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

**NOTES-** (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 4, 5.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 6=-2(B) 8=-4(B) 9=-5(B)


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | J09 | Jack-Open | 2 | 1 | Job Reference (optional) **# 48049** |

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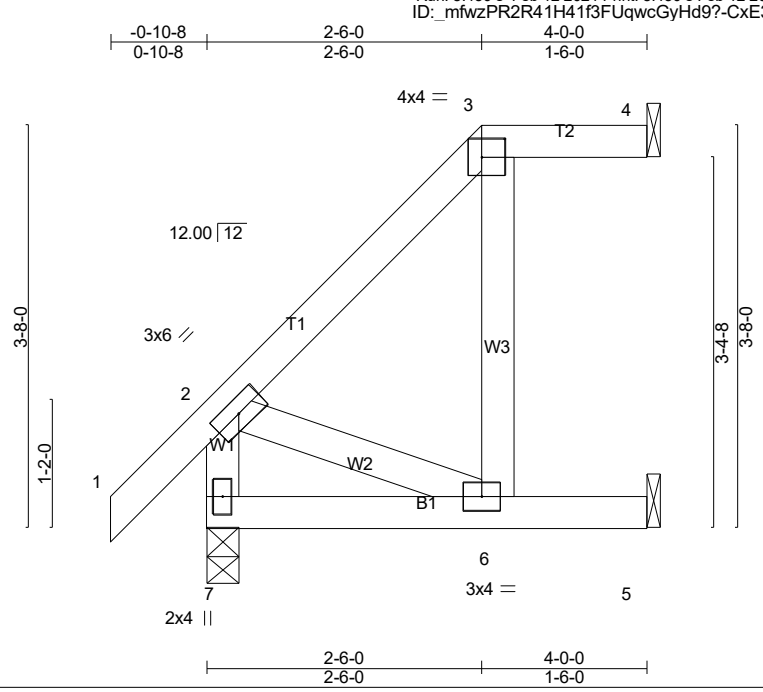


Plate Offsets (X,Y)-- [3:0-2-8,0-2-0]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | 0.03 | 6-7 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.27 | Vert(CT) | -0.03 | 6-7 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | 0.04 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 25 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 7=221/0-3-8 (min. 0-1-8), 4=43/Mechanical, 5=100/Mechanical
Max Horz 7=92(LC 12)
Max Uplift4=-13(LC 8), 5=-36(LC 12)

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

**NOTES-** (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.

**LOAD CASE(S)** Standard


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | J10 | Jack-Closed | 2 | 1 | Job Reference (optional) **# 48049** |

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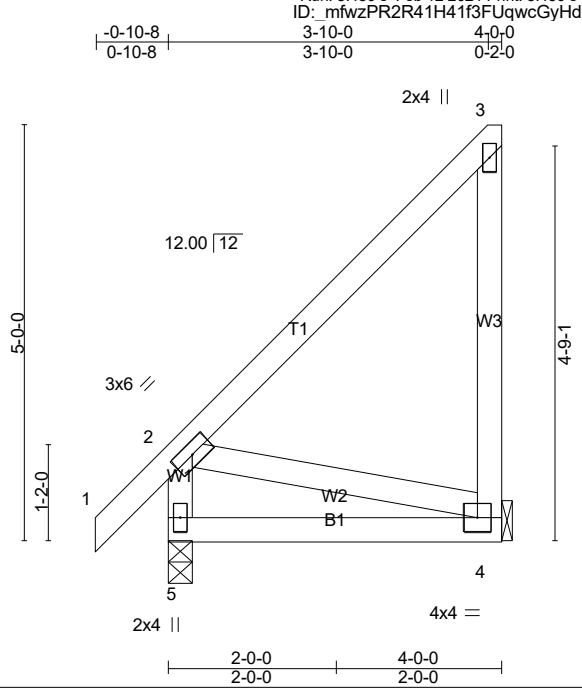



| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.23 | Vert(LL) | -0.01 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.16 | Vert(CT) | -0.02 | 4-5 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.07 | Horz(CT) | -0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | Weight: 29 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

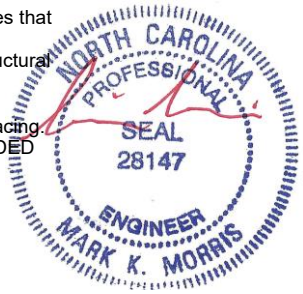
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 5=218/0-3-8 (min. 0-1-8), 4=140/Mechanical
Max Horz 5=128(LC 12)
Max Uplift4=-95(LC 12)
Max Grav 5=218(LC 1), 4=158(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-58/250

**NOTES-** (8-11)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
8) 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.
9) 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.
10) 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.
11) 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

5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | J11 | Jack-Open | 4 | 1 | **# 48049** Job Reference (optional) |

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu May 2 21:33:44 2024 Page 1
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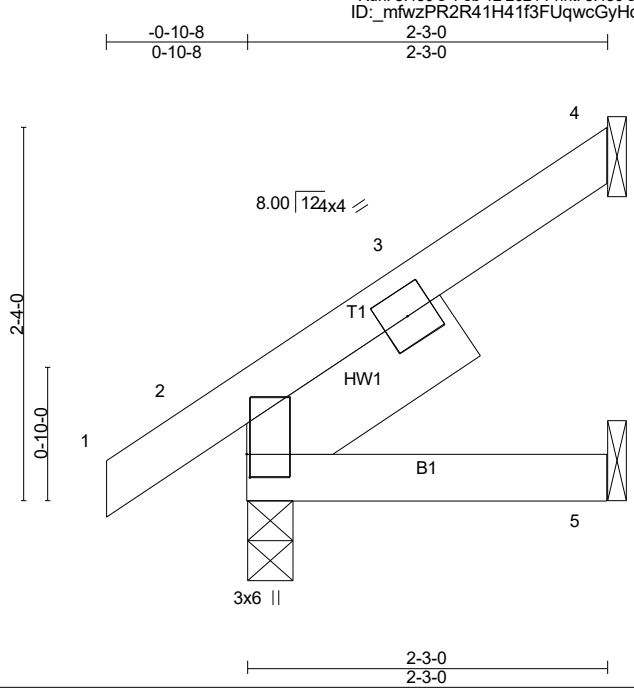


Plate Offsets (X,Y)-- [2:0-1-12,0-0-4]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.08 | Vert(LL) | -0.00 | 2-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(CT) | -0.00 | 2-5 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 13 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -° 1-6-11

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-3-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 4=55/Mechanical, 2=151/0-3-8 (min. 0-1-8), 5=22/Mechanical
Max Horz 2=57(LC 12)
Max Uplift4=-42(LC 12)
Max Grav 4=60(LC 20), 2=151(LC 1), 5=44(LC 5)

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

**NOTES-** (8)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.

**LOAD CASE(S)** Standard


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | J12 | Jack-Open | 1 | 1 | Job Reference (optional) **# 48049** |

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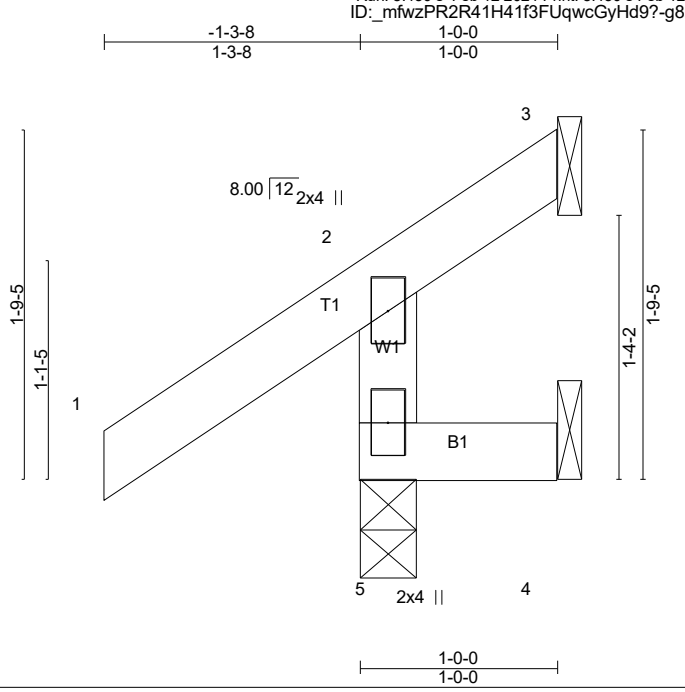


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.24 | Vert(LL) | 0.00 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(CT) | 0.00 | 5 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-R | | | | | | | Weight: 7 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 5=194/0-3-8 (min. 0-1-8), 3=-32/Mechanical, 4=-8/Mechanical
Max Horz 5=39(LC 12)
Max Uplift5=-8(LC 12), 3=-86(LC 18), 4=-20(LC 18)
Max Grav 5=283(LC 18), 3=3(LC 8), 4=11(LC 5)

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

**NOTES-** (8)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.

**LOAD CASE(S)** Standard


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | J13 | Jack-Open | 1 | 1 | Job Reference (optional) **# 48049** |

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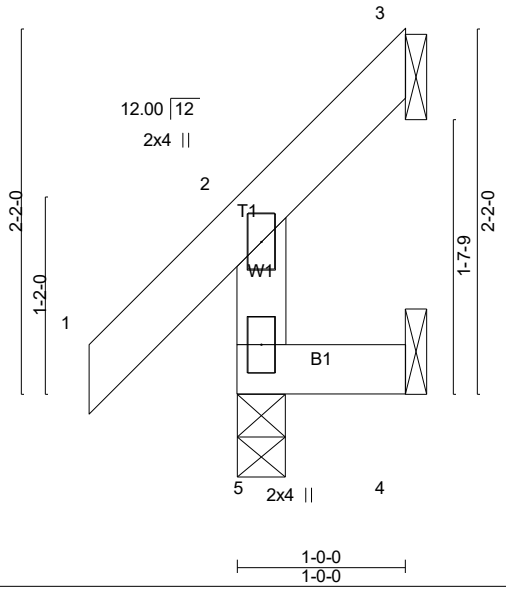


**LOADING** (psf)
TCLL (roof) 20.0
Snow (Pf) 20.0
TCDL 10.0
BCLL 0.0 *
BCDL 10.0

**SPACING-** 2-0-0
Plate Grip DOL 1.15
Lumber DOL 1.15
Rep Stress Incr YES
Code IRC2021/TPI2014

**CSI.**
TC 0.22
BC 0.09
WB 0.00
Matrix-R

| **DEFL.** | in | (loc) | l/defl | L/d |
|---|---|---|---|---|
| Vert(LL) | 0.00 | 5 | >999 | 240 |
| Vert(CT) | 0.00 | 5 | >999 | 180 |
| Horz(CT) | -0.00 | 3 | n/a | n/a |

**PLATES** MT20 **GRIP** 244/190

Weight: 7 lb FT = 20%

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 5=132/0-3-8 (min. 0-1-8), 3=-4/Mechanical, 4=0/Mechanical
Max Horz 5=48(LC 12)
Max Uplift3=-38(LC 18), 4=-21(LC 12)
Max Grav 5=181(LC 18), 3=9(LC 10), 4=14(LC 5)

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

**NOTES-** (8)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.

**LOAD CASE(S)** Standard


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | J14 | Jack-Open | 5 | 1 | Job Reference (optional) **# 48049** |

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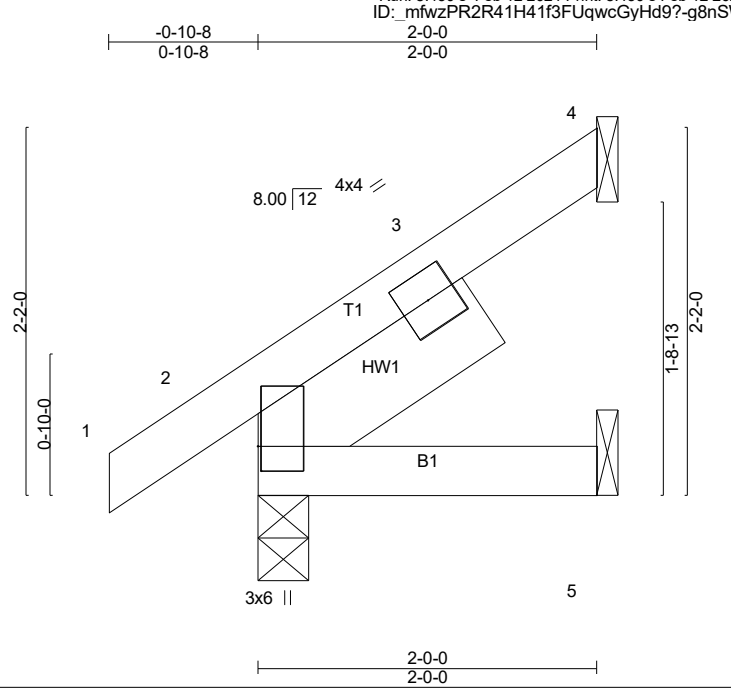


Plate Offsets (X,Y)-- [2:0-1-12,0-0-4]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.08 | Vert(LL) | -0.00 | 2 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(CT) | -0.00 | 2-5 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 12 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -° 1-6-10

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 4=48/Mechanical, 2=144/0-3-8 (min. 0-1-8), 5=20/Mechanical
Max Horz 2=53(LC 12)
Max Uplift4=-39(LC 12)
Max Grav 4=53(LC 20), 2=147(LC 18), 5=40(LC 5)

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

**NOTES-** (8)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.

**LOAD CASE(S)** Standard


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | J15 | Jack-Open | 1 | 1 | **# 48049** |
| | | | | | Job Reference (optional) |

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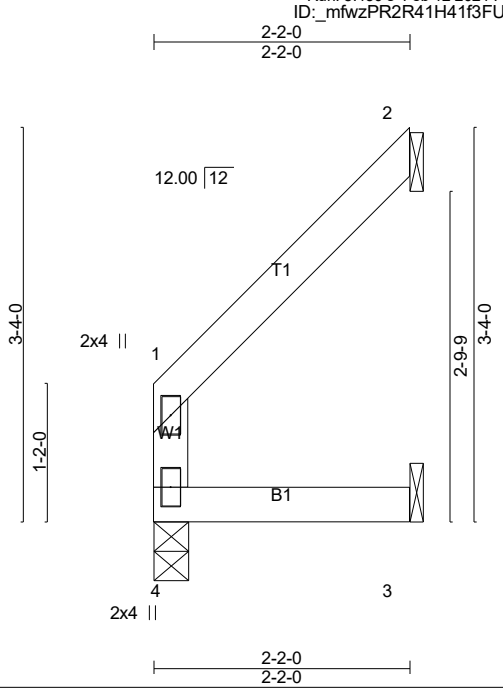


| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.21 | Vert(LL) | 0.00 | 3-4 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.13 | Vert(CT) | -0.00 | 3-4 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.01 | 2 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-R | | | | | | | Weight: 9 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 4=78/0-3-8 (min. 0-1-8), 2=55/Mechanical, 3=24/Mechanical
Max Horz 4=55(LC 12)
Max Uplift2=-52(LC 12), 3=-10(LC 12)
Max Grav 4=83(LC 21), 2=63(LC 19), 3=38(LC 5)

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

**NOTES-** (7)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.

**LOAD CASE(S)** Standard


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | PB01 | GABLE | 4 | 1 | **# 48049** |
| | | | | | Job Reference (optional) |

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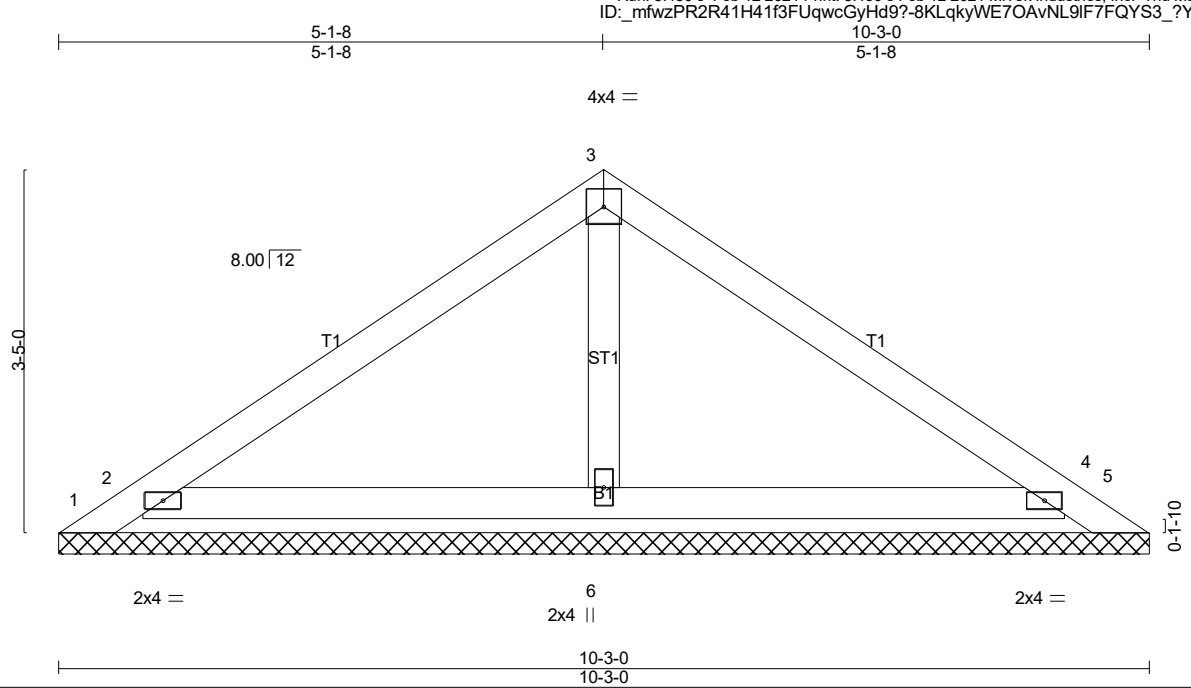



| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.29 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.32 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | Weight: 35 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3

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

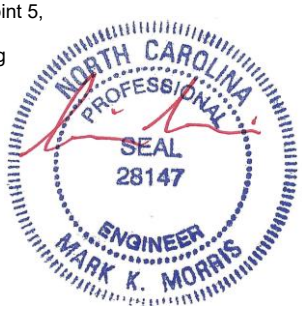
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 10-3-0.
(lb) - Max Horz 1=58(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-246(LC 20), 5=-222(LC 21), 2=-181(LC 12), 4=-169(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=477(LC 20), 4=469(LC 1), 6=280(LC 1)

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

**NOTES-** (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint 1, 222 lb uplift at joint 5, 181 lb uplift at joint 2 and 169 lb uplift at joint 4.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard




5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | PB02 | GABLE | 1 | 1 | Job Reference (optional) **# 48049** |

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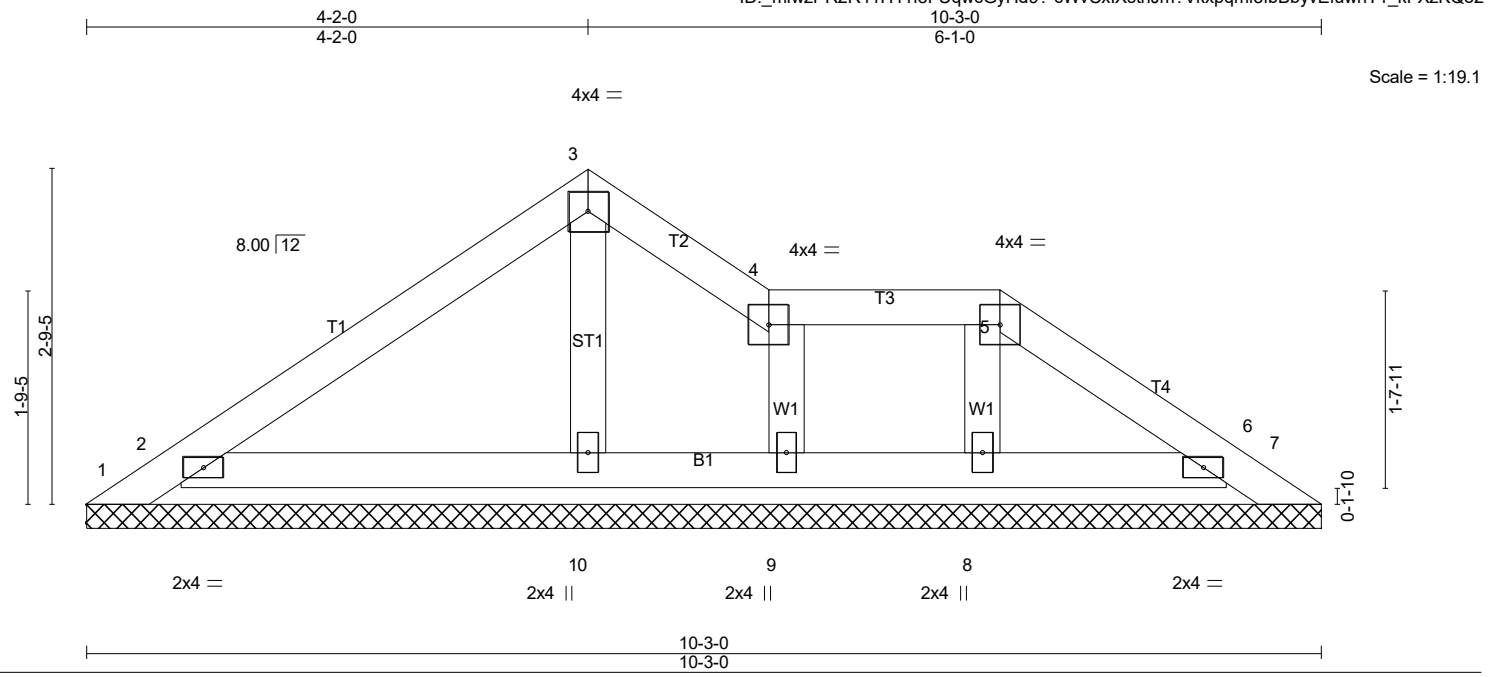


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.17 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.15 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | Weight: 37 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 8-9.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 10-3-0.
(lb) - Max Horz 1=47(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 7, 6, 9, 8 except 1=-141(LC 20), 2=-117(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 6, 10, 9, 8 except 2=330(LC 20)

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

**NOTES-** (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-3-2 to 5-8-0, Corner(3R) 5-8-0 to 7-7-0, Corner(3E) 7-7-0 to 9-11-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 6, 9, 8 except (jt=lb) 1=141, 2=117.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | PB03 | GABLE | 1 | 1 | Job Reference (optional) **# 48049** |

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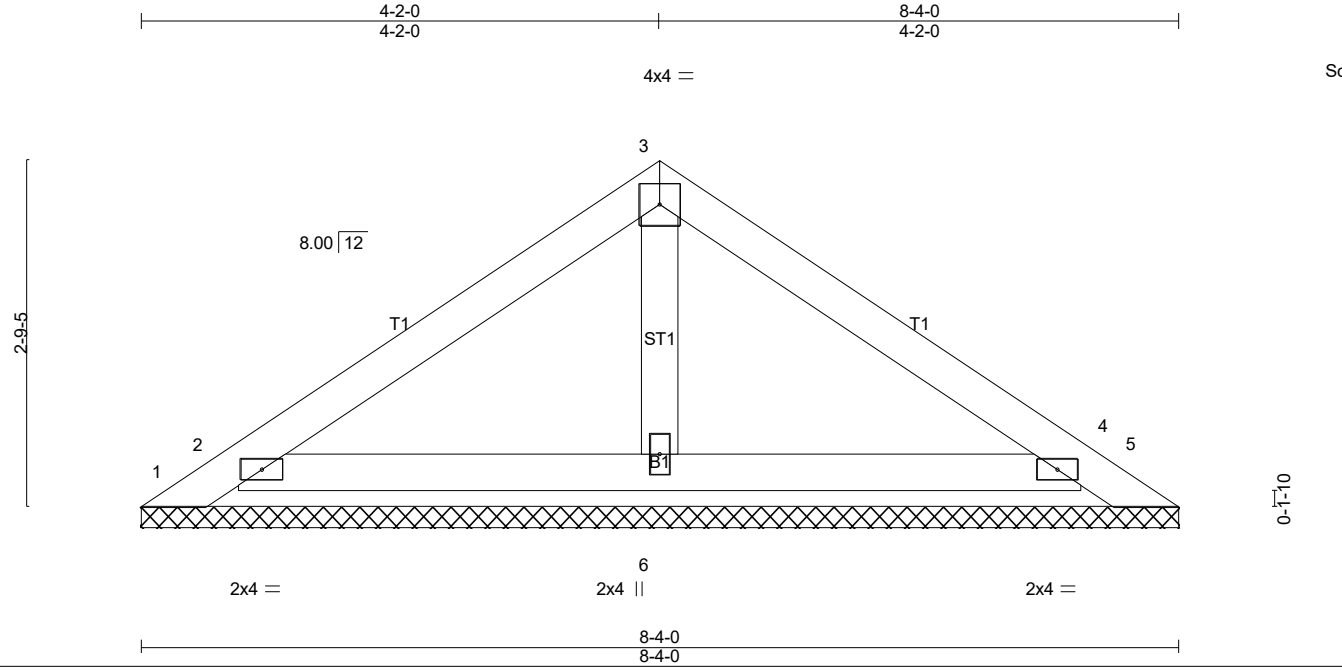



| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.17 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.19 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | Weight: 28 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3

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

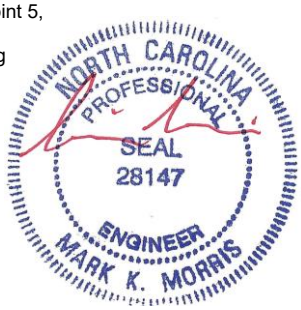
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 8-4-0.
(lb) - Max Horz 1=47(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-141(LC 20), 5=-123(LC 21), 2=-119(LC 12), 4=-108(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 2=330(LC 20), 4=325(LC 1)

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

**NOTES-** (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 1, 123 lb uplift at joint 5, 119 lb uplift at joint 2 and 108 lb uplift at joint 4.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard




5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | PB04 | GABLE | 8 | 1 | Job Reference (optional) **# 48049** |

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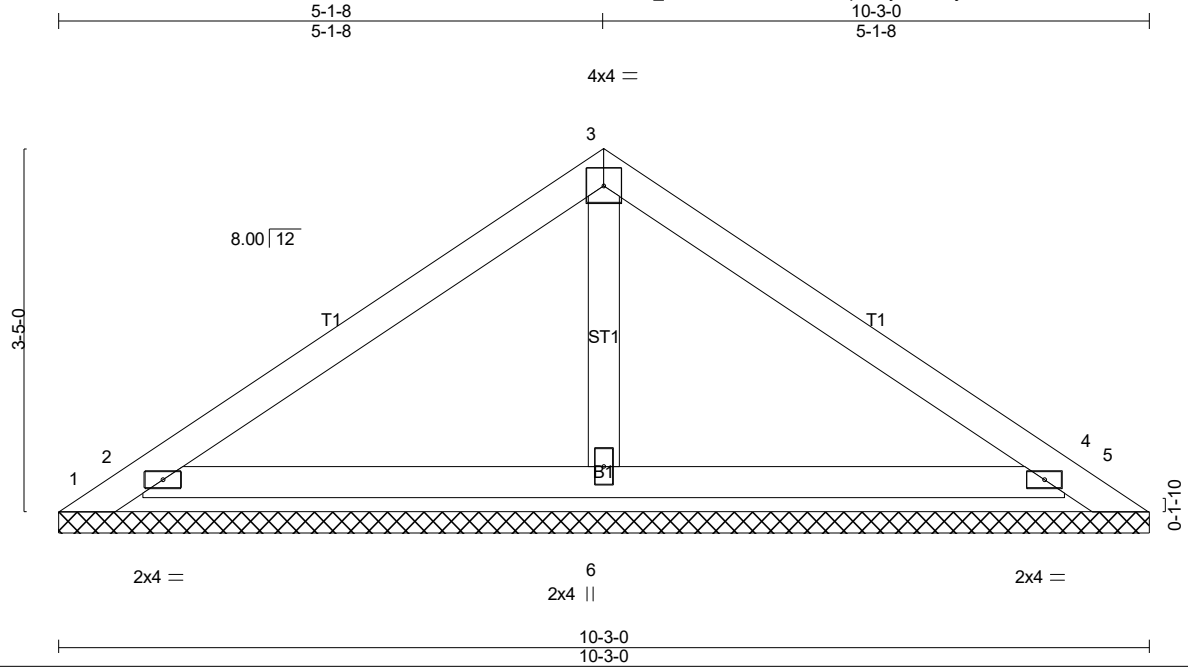



| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.29 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.32 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | Weight: 35 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3

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

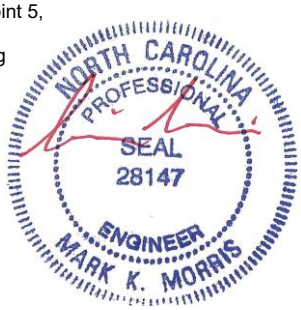
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 10-3-0.
(lb) - Max Horz 1=58(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-246(LC 20), 5=-222(LC 21), 2=-181(LC 12), 4=-169(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=477(LC 20), 4=469(LC 1), 6=280(LC 1)

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

**NOTES-** (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint 1, 222 lb uplift at joint 5, 181 lb uplift at joint 2 and 169 lb uplift at joint 4.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard




5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R01 | Hip Girder | 1 | 2 | Job Reference (optional) **# 48049** |

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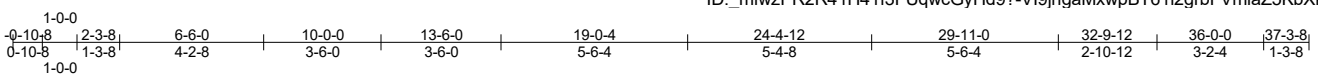


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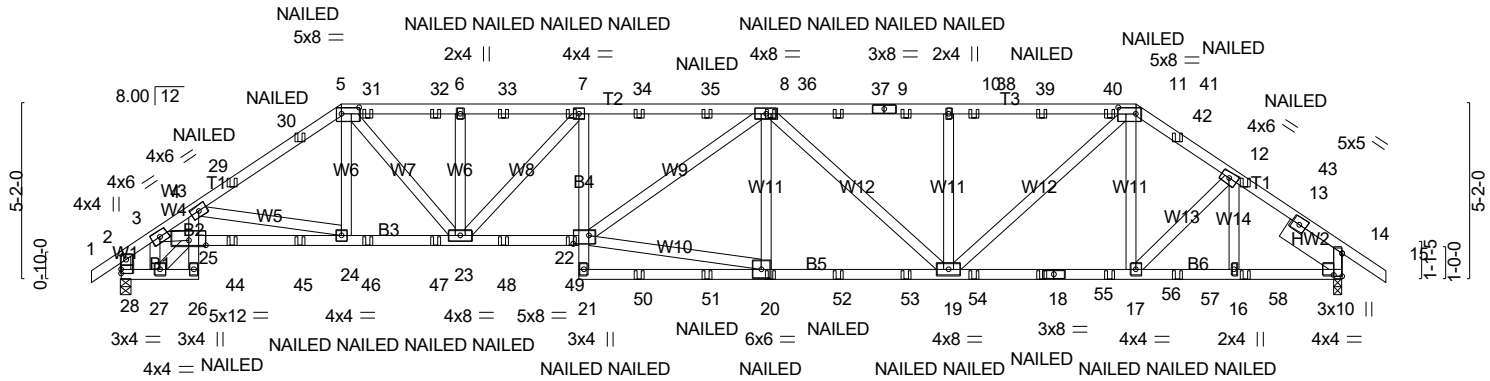


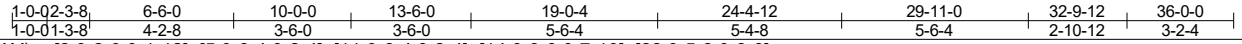




Plate Offsets (X,Y)-- [2:0-2-0,0-1-12], [5:0-6-4,0-2-4], [11:0-6-4,0-2-4], [14:0-3-0,0-7-10], [22:0-5-8,0-3-0]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.88 | Vert(LL) | 0.21 | 22 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.84 | Vert(CT) | -0.31 | 22-23 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.75 | Horz(CT) | 0.17 | 14 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | | Weight: 470 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

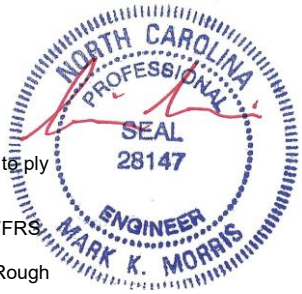
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B2,B4: 2x4 SP No.3
WEBS 2x4 SP No.3
SLIDER Right 2x8 SP No.2 -° 2-1-1

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-0-15 oc bracing.

**REACTIONS.** (lb/size) 28=2117/0-3-8 (min. 0-1-8), 14=2115/0-3-8 (min. 0-1-8)
Max Horz 28=91(LC 35)
Max Uplift28=-741(LC 10), 14=-759(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1668/615, 3-4=-5364/2125, 4-29=-3481/1415, 29-30=-3419/1396, 5-30=-3363/1412, 5-31=-3805/1644, 31-32=-3804/1643, 6-32=-3804/1643, 6-33=-3804/1644, 33-34=-3804/1644, 7-34=-3804/1644, 7-35=-4456/1944, 35-36=-4456/1944, 8-36=-4456/1944, 8-37=-3342/1458, 9-37=-3342/1458, 9-38=-3342/1458, 10-38=-3342/1458, 10-39=-3342/1458, 39-40=-3342/1458, 40-41=-3342/1458, 11-41=-3343/1458, 11-42=-2555/1084, 12-42=-2611/1069, 12-43=-2559/1025, 13-43=-2635/1055, 13-14=-2710/1051, 2-28=-1495/531
BOT CHORD 27-28=-466/1049, 26-27=-126/310, 25-26=-97/284, 4-25=-499/1223, 25-44=-1969/4842, 44-45=-1967/4838, 24-45=-1966/4834, 24-46=-1214/2859, 46-47=-1214/2859, 23-47=-1214/2859, 23-48=-1964/4485, 48-49=-1964/4485, 22-49=-1964/4486, 7-22=-94/369, 21-50=-108/261, 50-51=-108/261, 20-51=-108/261, 20-52=-1658/3798, 52-53=-1658/3798, 19-53=-1658/3798, 19-54=-886/2181, 54-55=-886/2181, 18-55=-886/2181, 18-56=-886/2181, 17-56=-886/2181, 17-57=-749/1960, 16-57=-749/1960, 16-58=-749/1960, 14-58=-749/1960
WEBS 4-24=-2039/795, 5-24=-152/495, 5-23=-692/1438, 6-23=-297/217, 7-23=-1011/484, 20-22=-1577/3600, 8-22=-363/816, 8-20=-515/288, 8-19=-634/296, 10-19=-465/286, 11-19=-737/1572, 12-17=-200/343, 3-27=-1609/679, 25-27=-483/1048, 3-25=-1377/3456

**NOTES-** (12-15)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

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Continued on page 2

**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.

**NOTES-** (12-15)

7) Provide adequate drainage to prevent water ponding.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 741 lb uplift at joint 28 and 759 lb uplift at joint 14.
11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
12) 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.
13) 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.
14) 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.
15) 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

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-60, 2-5=-60, 5-11=-60, 11-15=-60, 26-28=-20, 22-25=-20, 14-21=-20
   Concentrated Loads (lb)
   Vert: 20=-19(F) 8=-46(F) 29=-51(F) 31=-66(F) 32=-66(F) 33=-66(F) 34=-66(F) 35=-46(F) 36=-46(F) 37=-46(F) 38=-46(F) 39=-46(F) 40=-46(F) 41=-46(F) 43=-32(F) 44=-103(F) 45=-85(F) 50=-19(F) 51=-19(F) 52=-19(F) 53=-19(F) 54=-19(F) 55=-19(F) 56=-19(F) 57=-99(F) 58=-80(F)


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R02 | Hip | 1 | 1 | **# 48049** |
| | | | | | Job Reference (optional) |

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu May 2 21:33:52 2024 Page 1
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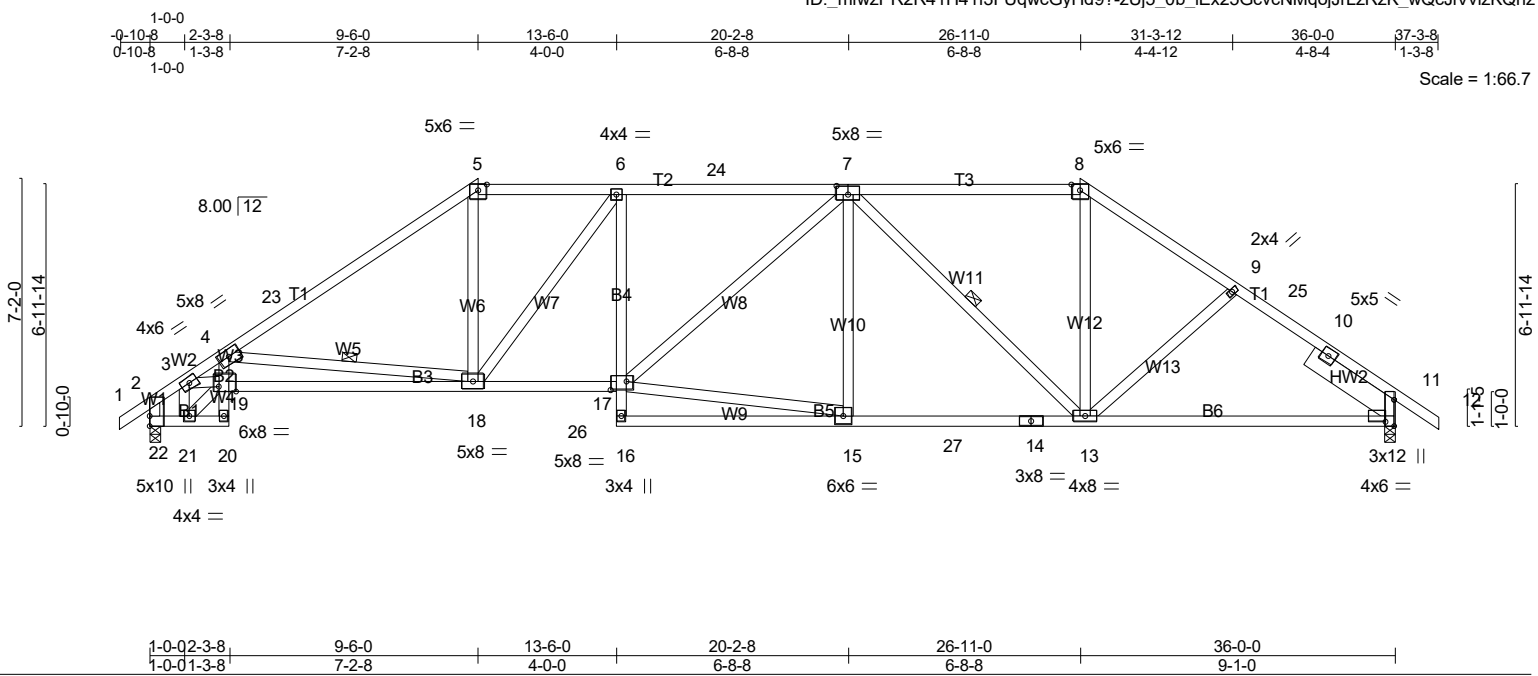


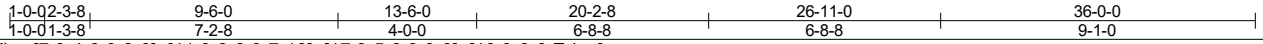




Plate Offsets (X,Y)-- [7:0-4-0,0-3-0], [11:0-3-0,0-7-10], [17:0-5-8,0-3-0], [19:0-6-0,Edge]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 1.00 | Vert(LL) | -0.18 | 13-15 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.88 | Vert(CT) | -0.35 | 18-19 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.75 | Horz(CT) | 0.24 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | | Weight: 235 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.1 *Except*
T2,T3: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B2,B4: 2x4 SP No.3, B3: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
W3: 2x4 SP No.2
SLIDER Right 2x8 SP No.2 -° 3-0-0

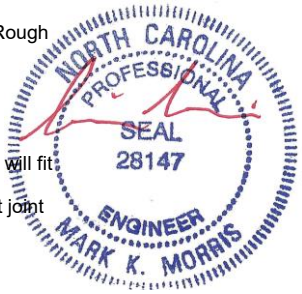
**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-18, 7-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 22=1495/0-3-8 (min. 0-1-12), 11=1512/0-3-8 (min. 0-1-13)
Max Horz 22=125(LC 11)
Max Uplift22=-32(LC 12), 11=-34(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1154/69, 3-4=-3759/216, 4-23=-2234/122, 5-23=-2109/158, 5-6=-1744/173, 6-24=-2126/192, 7-24=-2126/192, 7-8=-1450/165, 8-9=-1781/163, 9-25=-1827/159, 10-25=-1870/146, 10-11=-1965/135, 2-22=-1095/103
BOT CHORD 21-22=-104/698, 4-19=-40/731, 18-19=-297/3559, 18-26=-132/2127, 17-26=-132/2128, 6-17=-4/290, 15-27=-92/1935, 14-27=-92/1935, 13-14=-92/1935, 11-13=-56/1447
WEBS 4-18=-1810/344, 5-18=0/856, 6-18=-729/142, 15-17=-104/1811, 7-17=-54/289, 7-13=-755/124, 8-13=0/638, 3-21=-1024/82, 19-21=-105/687, 3-19=-171/2520

**NOTES-** (9-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Exterior(2R) 3-11-2 to 16-3-7, Interior(1) 16-3-7 to 20-1-9, Exterior(2R) 20-1-9 to 32-5-14, Exterior(2E) 32-5-14 to 37-3-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 22 and 34 lb uplift at joint 11.




5/2/2024

Continued on page 2

**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.

9) 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.
10) 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.
11) 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.
12) 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


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R03 | Hip | 1 | 1 | **# 48049** |
| | | | | | Job Reference (optional) |

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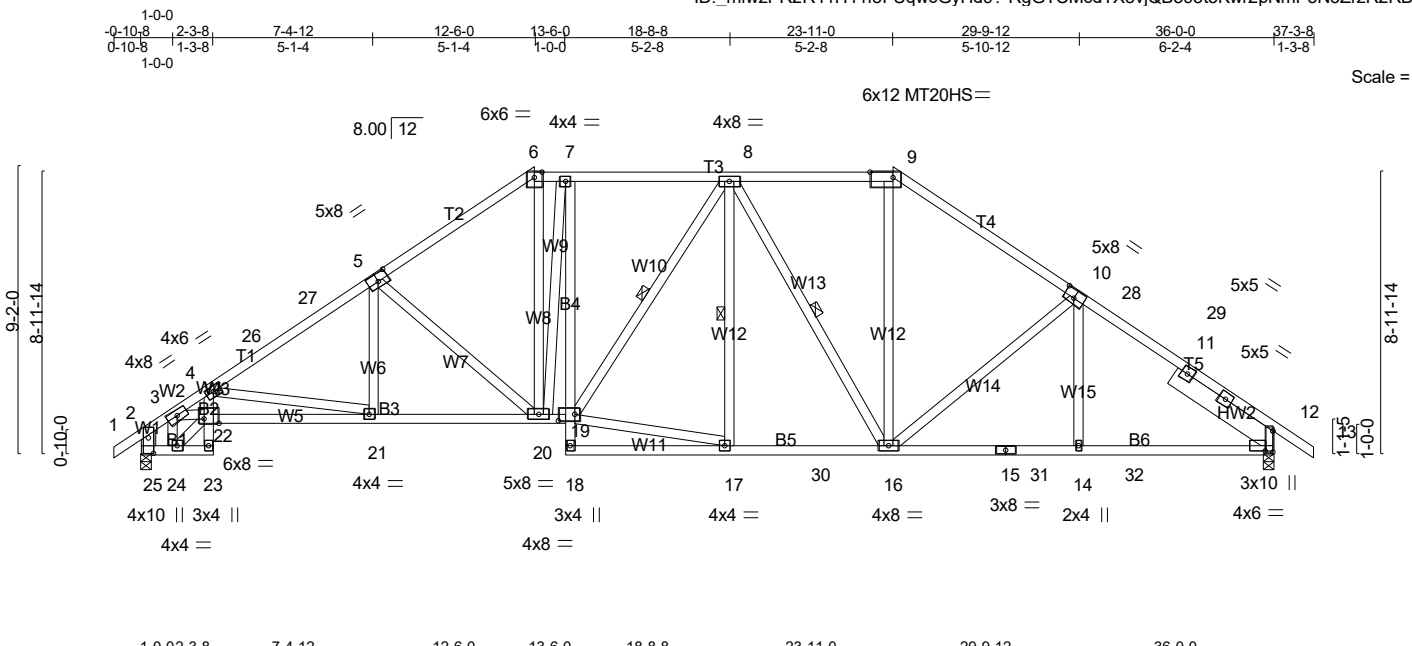


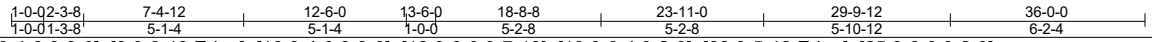

Plate Offsets (X,Y)-- [5:0-4-0,0-3-0], [9:0-8-13,Edge], [10:0-4-0,0-3-0], [12:0-3-0,0-7-10], [19:0-6-4,0-2-8], [22:0-5-12,Edge], [25:0-6-0,0-2-0]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.89 | Vert(LL) | -0.13 | 16-17 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.93 | Vert(CT) | -0.26 | 17-18 | >999 | 180 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.95 | Horz(CT) | 0.20 | 12 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | | Weight: 275 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* T5: 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.2 *Except* B2,B4: 2x4 SP No.3 |
| WEBS | 2x4 SP No.3 *Except* W1: 2x6 SP No.2 |
| SLIDER | Right 2x8 SP No.2 -° 3-10-11 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-22. |
| WEBS | 1 Row at midpt 8-19, 8-17, 8-16 |

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 25=1497/0-3-8 (min. 0-1-12), 12=1509/0-3-8 (min. 0-1-12)
Max Horz 25=161(LC 11)
Max Uplift25=-53(LC 12), 12=-54(LC 13)

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

| | |
|---|---|
| TOP CHORD | 2-3=-1115/66, 3-4=-3520/217, 4-26=-2321/154, 26-27=-2267/157, 5-27=-2180/173, 5-6=-1868/204, 6-7=-1507/200, 7-8=-1550/207, 8-9=-1327/200, 9-10=-1663/198, 10-28=-1864/152, 28-29=-1913/147, 11-29=-1929/135, 11-12=-2028/127, 2-25=-1081/95 |
| BOT CHORD | 24-25=-112/711, 4-22=-68/734, 21-22=-289/3186, 20-21=-68/1882, 19-20=-45/1545, 17-30=-17/1486, 16-30=-17/1486, 15-16=-47/1521, 15-31=-47/1521, 14-31=-47/1521, 14-32=-47/1524, 12-32=-47/1524 |
| WEBS | 4-21=-1358/233, 5-21=0/344, 5-20=-539/132, 6-20=-63/879, 7-20=-441/129, 17-19=-29/1365, 8-16=-420/106, 9-16=-17/592, 10-16=-355/134, 10-14=0/260, 3-24=-998/86, 22-24=-134/719, 3-22=-160/2291 |

**NOTES-** (10-13)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 5-8-9, Exterior(2R) 5-8-9 to 30-8-7, Interior(1) 30-8-7 to 32-5-14, Exterior(2E) 32-5-14 to 37-3-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 25 and 54 lb uplift at joint 12.


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Continued on page 2

10) 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.
11) 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.
12) 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.
13) 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


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R04 | Hip | 1 | 1 | **# 48049** Job Reference (optional) |

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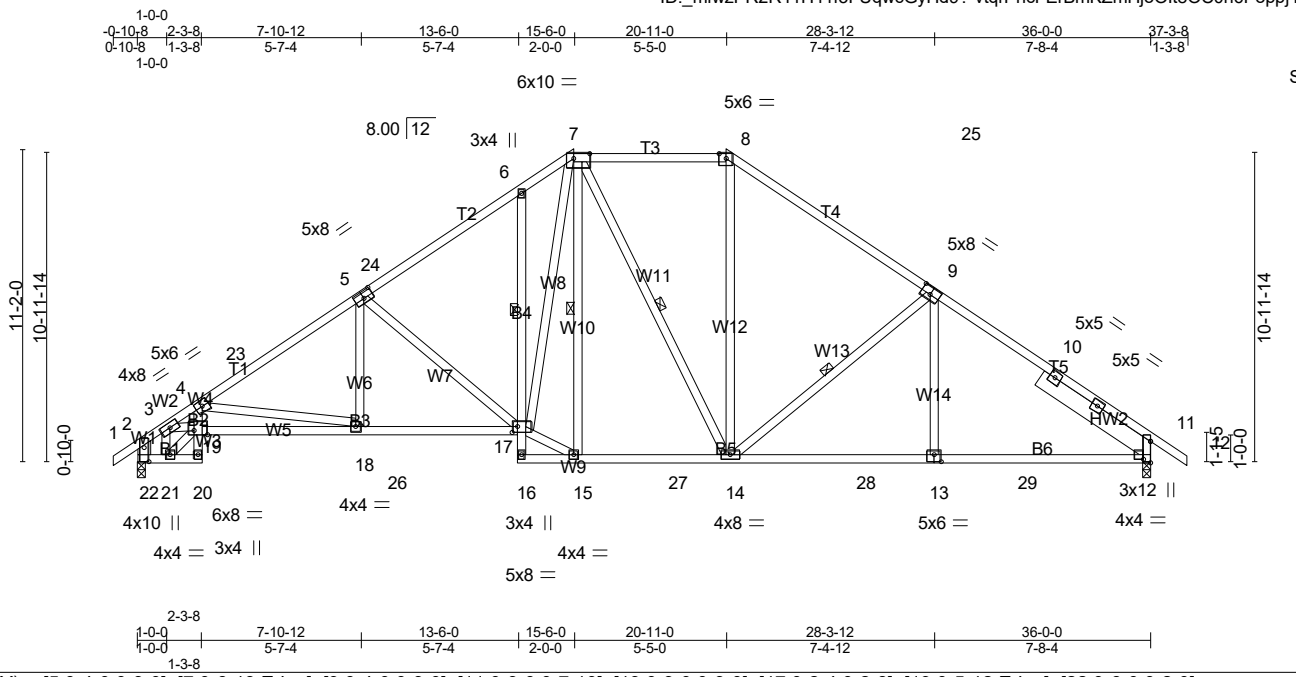



Plate Offsets (X,Y)-- [5:0-4-0,0-3-0], [7:0-6-13,Edge], [9:0-4-0,0-3-0], [11:0-3-0,0-7-10], [13:0-3-0,0-3-0], [17:0-2-4,0-2-8], [19:0-5-12,Edge], [22:0-6-0,0-2-0]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.93 | Vert(LL) | -0.15 | 14-15 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.95 | Vert(CT) | -0.29 | 17-18 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.98 | Horz(CT) | 0.22 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | | Weight: 271 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* T4,T5: 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.2 *Except* B2,B4: 2x4 SP No.3 |
| WEBS | 2x4 SP No.3 *Except* W1: 2x6 SP No.2 |
| SLIDER | Right 2x8 SP No.2 -° 4-9-8 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 18-19 6-0-0 oc bracing: 16-17,15-16. 1 Row at midpt 6-17 |
| WEBS | 1 Row at midpt 7-15, 7-14, 9-14 |

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

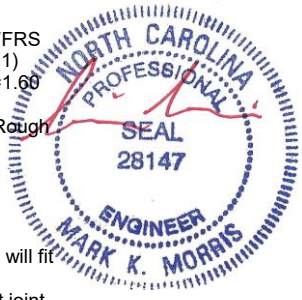
**REACTIONS.** (lb/size) 22=1497/0-3-8 (min. 0-1-12), 11=1509/0-3-8 (min. 0-1-15)
Max Horz 22=198(LC 11)
Max Uplift22=-69(LC 12), 11=-70(LC 13)
Max Grav 22=1497(LC 1), 11=1621(LC 21)

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

| | |
|---|---|
| TOP CHORD | 2-3=-1122/44, 3-4=-3754/296, 4-23=-2351/97, 5-23=-2301/119, 5-24=-1847/140, 6-24=-1758/168, 6-7=-1707/235, 7-8=-1256/191, 8-25=-1592/177, 9-25=-1607/137, 9-10=-2065/117, 10-11=-2184/87, 2-22=-1084/74 |
| BOT CHORD | 21-22=-123/804, 4-19=-72/811, 18-19=-392/3541, 18-26=-105/2027, 17-26=-105/2027, 15-27=0/1288, 14-27=0/1288, 14-28=-9/1650, 13-28=-9/1650, 13-29=-9/1654, 11-29=-9/1654 |
| WEBS | 4-18=-1527/291, 5-18=0/379, 5-17=-662/142, 15-17=0/1400, 7-17=-155/1177, 7-15=-474/21, 8-14=-13/536, 9-14=-597/166, 9-13=0/430, 3-21=-1118/114, 19-21=-142/813, 3-19=-222/2482 |

**NOTES-** (9-12)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 8-8-9, Exterior(2R) 8-8-9 to 27-8-7, Interior(1) 27-8-7 to 32-5-14, Exterior(2E) 32-5-14 to 37-3-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 22 and 70 lb uplift at joint 11.




5/2/2024

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**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.

9) 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.
10) 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.
11) 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.
12) 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


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R05 | Piggyback Base | 1 | 1 | **# 48049** |
| | | | | | Job Reference (optional) |

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu May 2 21:33:55 2024 Page 1
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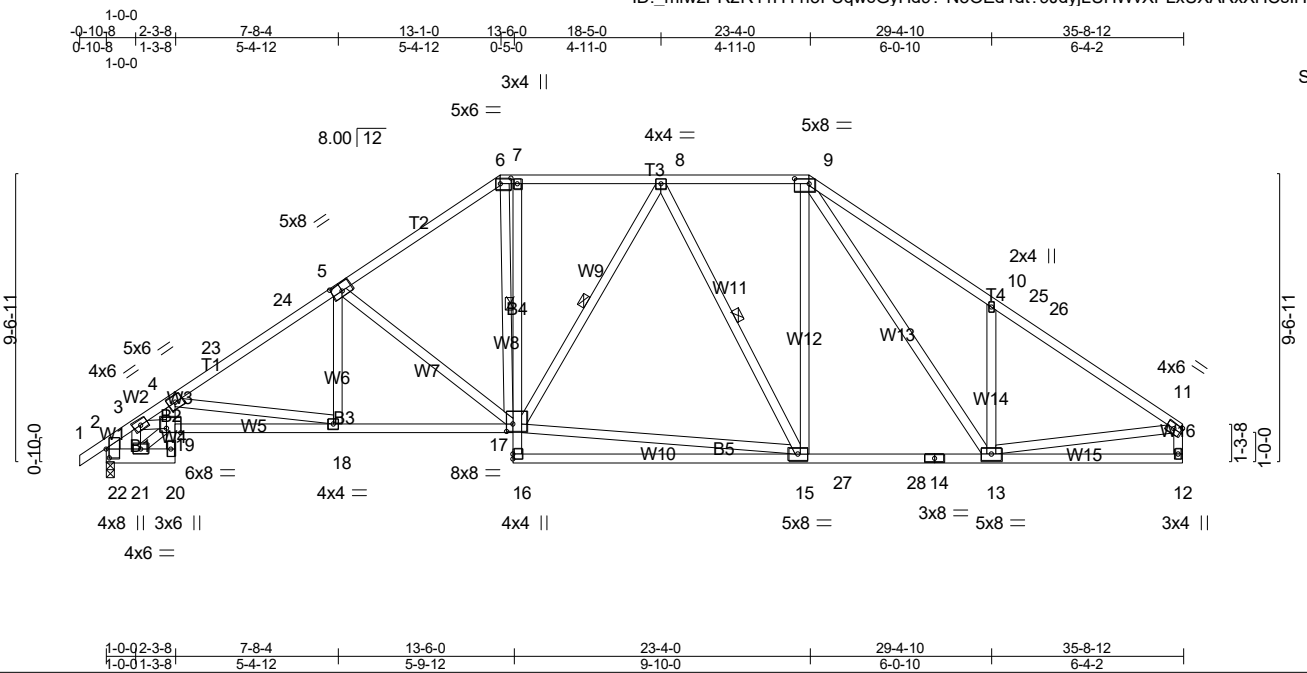





Plate Offsets (X,Y)-- [5:0-4-0,0-3-0], [6:0-4-4,0-2-4], [9:0-5-12,0-2-0], [17:0-2-8,0-3-0], [19:0-5-12,Edge], [22:0-3-8,0-1-4]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.50 | Vert(LL) | -0.24 | 15-16 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.93 | Vert(CT) | -0.53 | 15-16 | >802 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.91 | Horz(CT) | 0.18 | 12 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | | Weight: 264 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B1: 2x6 SP No.2, B2,B4: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
W1: 2x6 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-10-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 18-19.
1 Row at midpt 7-17
WEBS 1 Row at midpt 8-17, 8-15

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 22=1481/0-3-8 (min. 0-1-12), 12=1413/Mechanical
Max Horz 22=162(LC 9)
Max Uplift22=-56(LC 12), 12=-36(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1047/58, 3-4=-3472/246, 4-23=-2277/149, 23-24=-2218/151, 5-24=-2127/170, 5-6=-1762/203, 6-7=-1428/204, 7-8=-1423/204, 8-9=-1256/197, 9-10=-1844/280, 10-25=-1635/149, 25-26=-1639/145, 11-26=-1821/129, 11-12=-1348/112, 2-22=-904/84
BOT CHORD 21-22=-116/730, 20-21=-36/252, 4-19=-60/729, 18-19=-347/3160, 17-18=-86/1841, 15-27=-1/1244, 27-28=-1/1244, 14-28=-1/1244, 13-14=-1/1244
WEBS 4-18=-1350/264, 5-18=0/381, 5-17=-597/138, 6-17=-28/647, 15-17=-50/1295, 8-15=-450/139, 9-15=-31/464, 9-13=-194/457, 10-13=-423/216, 11-13=-59/1312, 3-21=-1182/99, 19-21=-121/667, 3-19=-186/2191

**NOTES-** (10-13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 6-3-9, Exterior(2R) 6-3-9 to 30-1-7, Interior(1) 30-1-7 to 30-9-6, Exterior(2E) 30-9-6 to 35-7-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 22 and 36 lb uplift at joint 12.


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Continued on page 2

10) 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.
11) 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.
12) 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.
13) 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


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R06 | Piggyback Base Girder | 1 | 1 | **# 48049** Job Reference (optional) |

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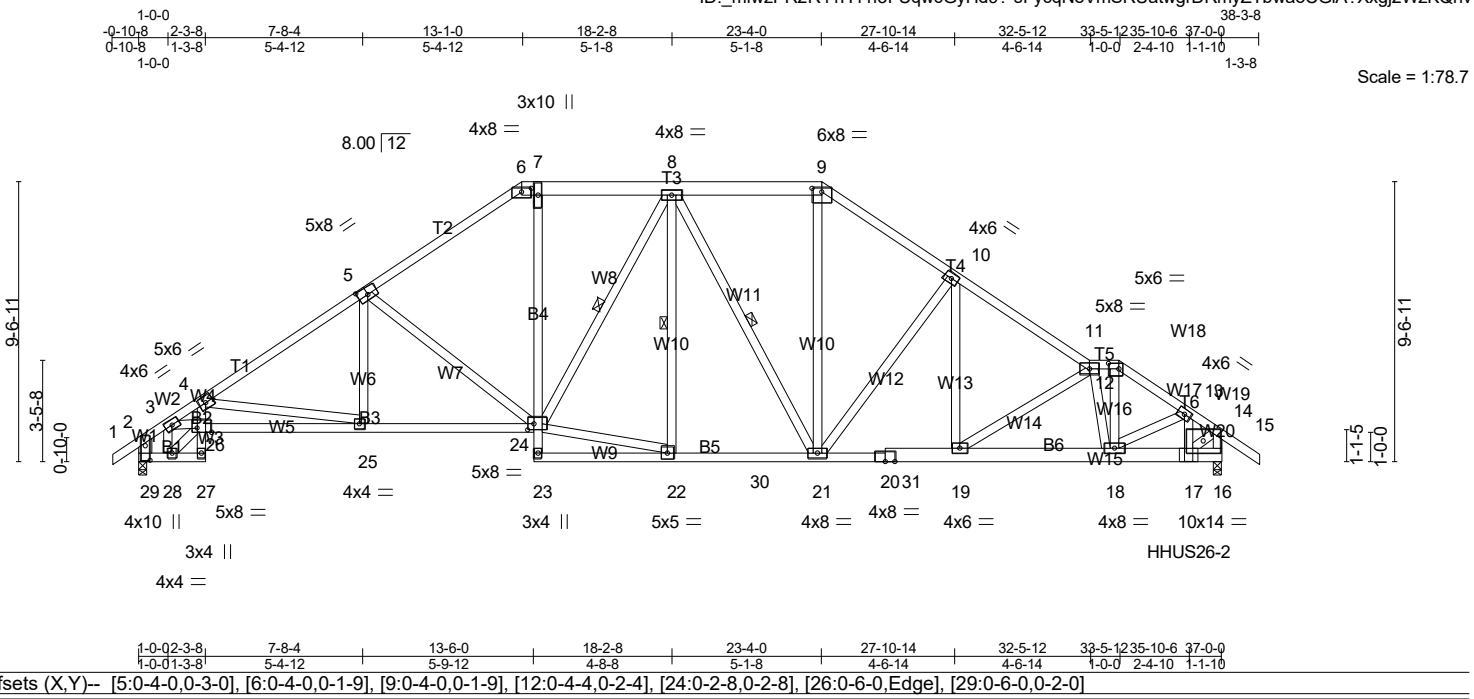




Plate Offsets (X,Y)-- [5:0-4-0,0-3-0], [6:0-4-0,0-1-9], [9:0-4-0,0-1-9], [12:0-4-4,0-2-4], [24:0-2-8,0-2-8], [26:0-6-0,Edge], [29:0-6-0,0-2-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.71 | Vert(LL) | -0.13 | 21-22 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.86 | Vert(CT) | -0.28 | 24-25 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.86 | Horz(CT) | 0.19 | 16 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | | Weight: 291 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except*
T3: 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B2,B4: 2x4 SP No.3, B3: 2x4 SP No.1, B6: 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x6 SP No.2, W3,W18: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-8-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 16-17.
WEBS 1 Row at midpt 8-24, 8-22, 8-21

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 29=1532/0-3-8 (min. 0-1-13), 16=1605/0-3-8 (min. 0-1-14)
Max Horz 29=-168(LC 8)
Max Uplift29=-56(LC 10), 16=-94(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1141/34, 3-4=-3625/241, 4-5=-2391/86, 5-6=-1859/90, 6-7=-1387/107, 7-8=-1473/106, 8-9=-1369/115, 9-10=-1712/105, 10-11=-2026/85, 11-12=-1582/79, 12-13=-1829/74, 13-14=-1165/66, 2-29=-1109/58, 14-16=-1502/93
BOT CHORD 28-29=-104/735, 4-26=-59/747, 25-26=-326/3294, 24-25=-70/1918, 7-24=0/791, 22-30=0/1485, 21-30=0/1485, 20-21=0/1638, 20-31=0/1638, 19-31=0/1639, 18-19=-4/1825, 17-18=-19/919
WEBS 4-25=-1441/259, 5-25=0/385, 5-24=-589/137, 22-24=0/1482, 8-21=-362/106, 9-21=-3/688, 10-21=-508/126, 10-19=0/307, 12-18=-21/858, 13-18=0/679, 3-28=-1024/94, 26-28=-125/739, 3-26=-181/2375, 13-17=-739/42, 14-17=-43/1103, 11-18=-1096/54

**NOTES-** (12-15)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 29 and 94 lb uplift at joint 16.
9) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent at 35-10-6 from the left end to connect truss(es) R33 (2 ply 2x6 SP) to front face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

NORTH CAROLINA PROFESSIONAL SEAL 28147 ENGINEER MARK K. MORRIS

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Continued on page 2

12) 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.
13) 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.
14) 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.
15) 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
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-6=-60, 6-9=-60, 9-11=-60, 11-12=-60, 12-14=-60, 14-15=-60, 27-29=-20, 24-26=-20, 16-23=-20
Concentrated Loads (lb)
Vert: 17=-54(F)


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| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R07 | Piggyback Base | 1 | 1 | **# 48049** |
| | | | | | Job Reference (optional) |

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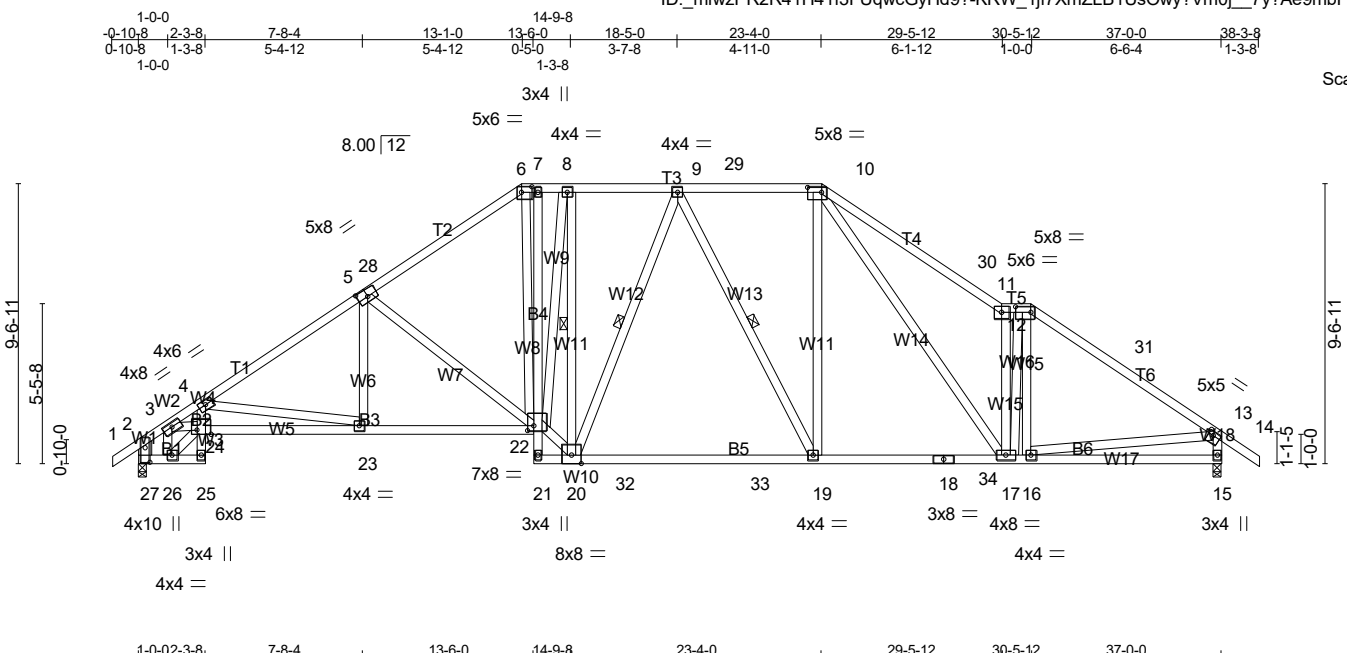



Plate Offsets (X,Y)-- [5:0-4-0,0-3-0], [6:0-4-4,0-2-4], [10:0-5-12,0-2-0], [12:0-6-4,0-2-4], [13:0-2-0,0-1-12], [22:0-2-8,0-2-0], [24:0-5-12,Edge], [27:0-6-0,0-2-0]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.88 | Vert(LL) | -0.25 | 19-20 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.96 | Vert(CT) | -0.43 | 19-20 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.97 | Horz(CT) | 0.21 | 15 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | | Weight: 299 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B2,B4: 2x4 SP No.3, B5: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
W1: 2x6 SP No.2

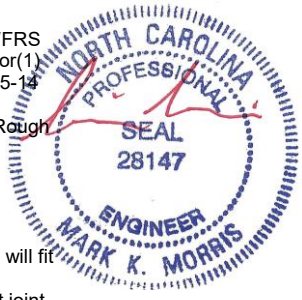
**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 23-24
6-0-0 oc bracing: 21-22,20-21.
WEBS 1 Row at midpt 8-20, 9-20, 9-19

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 27=1531/0-3-8 (min. 0-1-13), 15=1552/0-3-8 (min. 0-1-14)
Max Horz 27=-168(LC 10)
Max Uplift27=-55(LC 12), 15=-65(LC 13)
Max Grav 27=1531(LC 1), 15=1572(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1142/68, 3-4=-3659/238, 4-5=-2375/169, 5-28=-1911/175, 6-28=-1896/204, 6-7=-1566/203, 7-8=-1554/203, 8-29=-1492/206, 9-29=-1492/206, 9-10=-1511/210, 10-30=-2158/298, 11-30=-2240/272, 11-12=-1757/178, 12-31=-1929/156, 13-31=-2028/139, 2-27=-1106/98, 13-15=-1511/160
BOT CHORD 26-27=-107/776, 4-24=-62/787, 23-24=-324/3434, 22-23=-69/1979, 21-22=-331/0, 7-22=-42/381, 20-32=-6/1549, 32-33=-6/1549, 19-33=-6/1549, 19-34=0/1503, 18-34=0/1503, 17-18=0/1503, 16-17=-27/1600, 15-16=-73/266
WEBS 4-23=-1470/258, 5-23=0/382, 5-22=-612/138, 6-22=-11/607, 20-22=0/1966, 8-22=-60/603, 10-19=-32/559, 10-17=-181/597, 11-17=-1365/217, 12-17=-83/965, 13-16=0/1381, 3-26=-1086/94, 24-26=-128/782, 3-24=-179/2413, 8-20=-856/99, 9-19=-294/126

**NOTES-** (9-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 8-3-6, Exterior(2R) 8-3-6 to 17-10-10, Interior(1) 17-10-10 to 18-5-0, Exterior(2R) 18-5-0 to 28-1-10, Interior(1) 28-1-10 to 29-5-12, Exterior(2R) 29-5-12 to 33-5-14, Exterior(2E) 33-5-14 to 38-3-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 27 and 65 lb uplift at joint 15.

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Continued on page 2

**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.

9) 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.
10) 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.
11) 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.
12) 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


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R08 | Piggyback Base | 1 | 1 | **# 48049** |
| | | | | | Job Reference (optional) |

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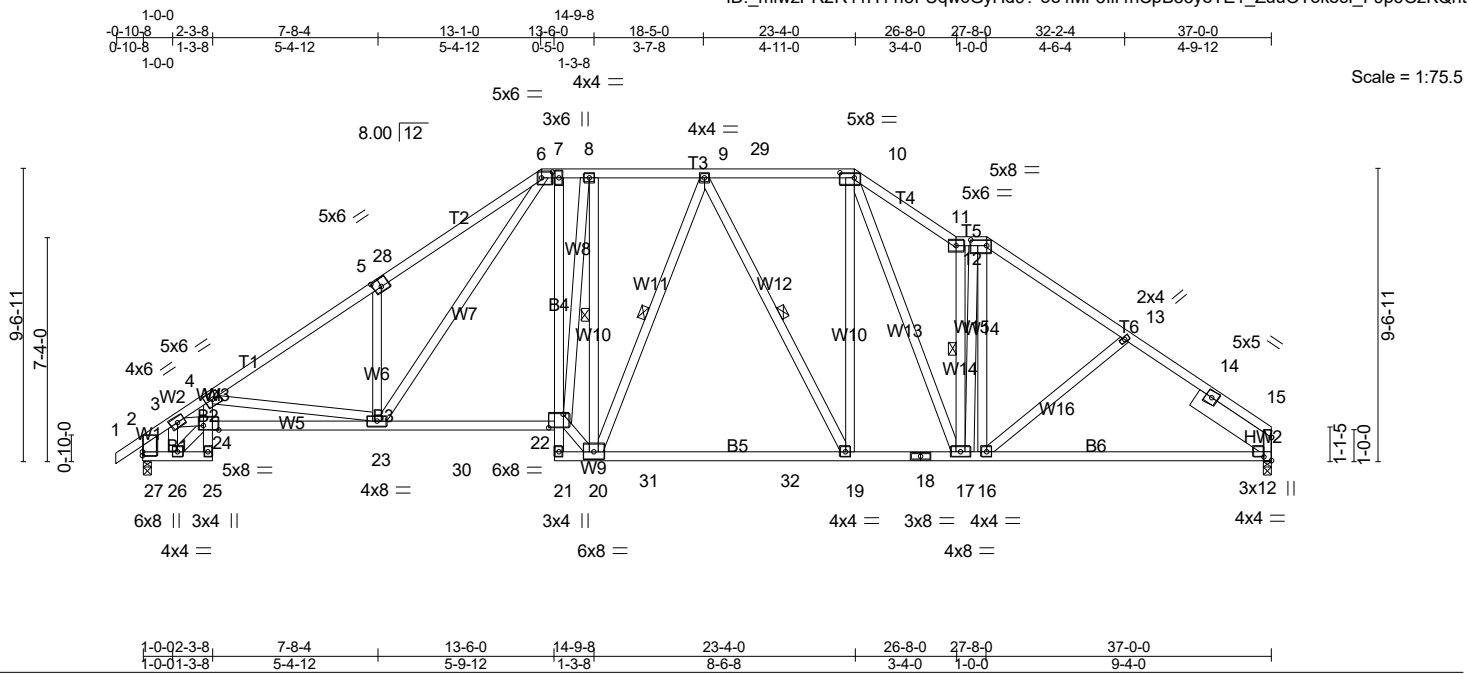





Plate Offsets (X,Y)-- [5:0-3-0,0-3-0], [6:0-4-4,0-2-4], [10:0-5-12,0-2-0], [12:0-6-4,0-2-4], [15:0-3-0,0-7-10], [22:0-5-12,0-5-4], [24:0-6-0,Edge]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.87 | Vert(LL) | -0.28 | 19-20 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.92 | Vert(CT) | -0.47 | 19-20 | >942 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.91 | Horz(CT) | 0.22 | 15 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | | Weight: 303 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* T6: 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.2 *Except* B2,B4: 2x4 SP No.3, B3,B5: 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 *Except* W1: 2x6 SP No.2, W3: 2x4 SP No.2 |
| SLIDER | Right 2x8 SP No.2 -° 3-0-15 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 21-22,20-21 2-2-0 oc bracing: 15-16. |
| WEBS | 1 Row at midpt 11-17, 8-20, 9-20, 9-19 |

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 15=1470/0-3-8 (min. 0-1-12), 27=1538/0-3-8 (min. 0-1-14)
Max Horz 27=170(LC 11)
Max Uplift 15=-46(LC 13), 27=-55(LC 12)
Max Grav 15=1507(LC 3), 27=1583(LC 3)

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

| | |
|---|---|
| TOP CHORD | 2-3=-1197/64, 3-4=-3893/235, 4-5=-2560/165, 5-28=-2597/250, 6-28=-2582/279, 6-7=-1679/200, 7-8=-1660/199, 8-29=-1590/197, 9-29=-1590/197, 9-10=-1547/195, 10-11=-2038/262, 11-12=-1654/186, 12-13=-1950/176, 13-14=-2022/174, 14-15=-2101/148, 2-27=-1139/94 |
| BOT CHORD | 26-27=-116/813, 4-24=-71/809, 23-24=-319/3635, 23-30=-36/1664, 22-30=-36/1664, 21-22=-358/0, 7-22=-105/918, 20-31=-17/1625, 31-32=-17/1625, 19-32=-17/1625, 18-19=0/1538, 17-18=0/1538, 16-17=-6/1600, 15-16=-72/1571 |
| WEBS | 4-23=-1526/258, 5-23=-385/190, 6-23=-190/897, 20-22=0/2162, 8-22=-102/610, 10-19=-33/592, 10-17=-164/497, 11-17=-1079/135, 12-17=-117/467, 12-16=0/542, 3-26=-1143/92, 24-26=-140/811, 3-24=-177/2575, 8-20=-853/110, 9-19=-293/118 |

**NOTES-** (9-12)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 8-3-6, Exterior(2R) 8-3-6 to 17-10-10, Interior(1) 17-10-10 to 18-5-0, Exterior(2R) 18-5-0 to 23-4-0, Exterior(2E) 23-4-0 to 26-8-0, Exterior(2R) 26-8-0 to 32-3-11, Exterior(2E) 32-3-11 to 37-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 15 and 55 lb uplift at joint 27.


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Continued on page 2

**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.

9) 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.
10) 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.
11) 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.
12) 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


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R09 | Piggyback Base | 1 | 1 | Job Reference (optional) **# 48049** |

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu May 2 21:33:59 2024 Page 1
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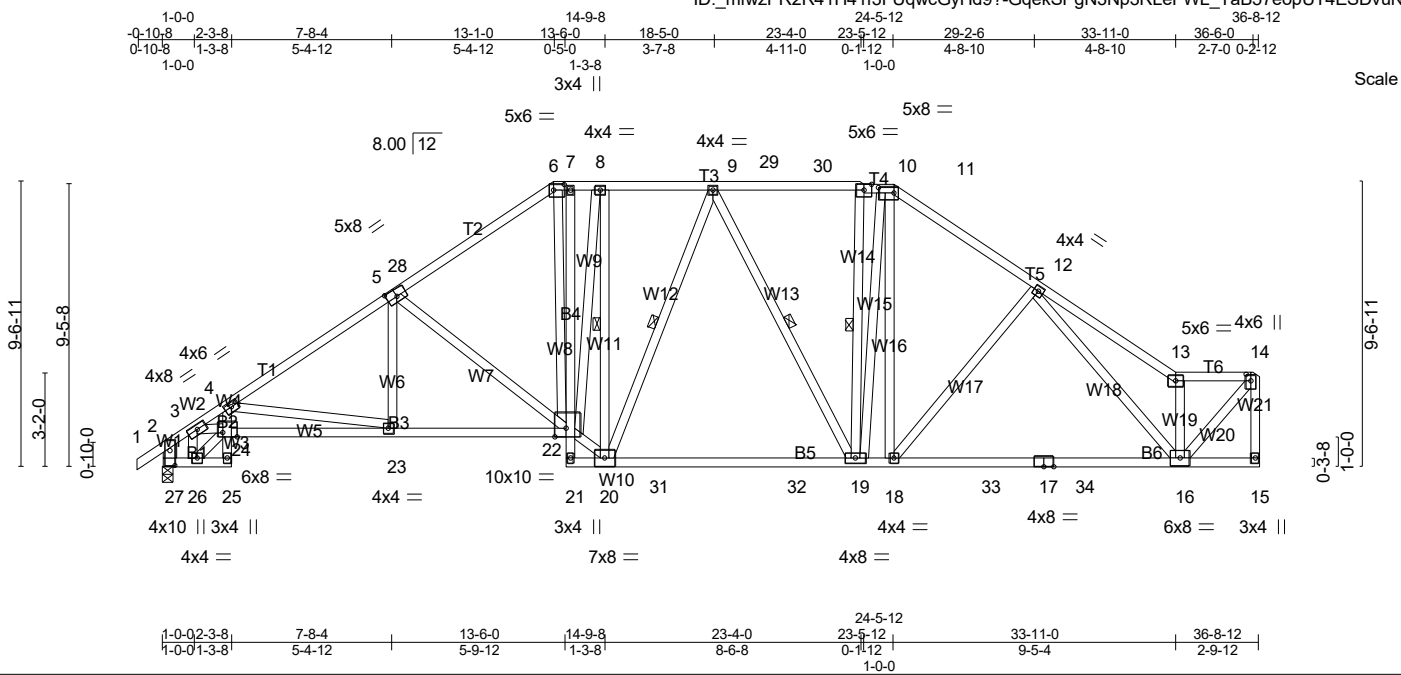



Plate Offsets (X,Y)-- [5:0-4-0,0-3-0], [6:0-4-4,0-2-4], [11:0-6-4,0-2-4], [14:0-2-11,0-2-0], [22:0-4-8,Edge], [24:0-5-12,Edge], [27:0-6-0,0-2-0]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.62 | Vert(LL) | -0.28 | 16-18 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.95 | Vert(CT) | -0.50 | 16-18 | >865 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.97 | Horz(CT) | 0.22 | 15 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | | Weight: 307 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B2,B4: 2x4 SP No.3, B5: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
W21: 2x4 SP No.2, W1: 2x6 SP No.2

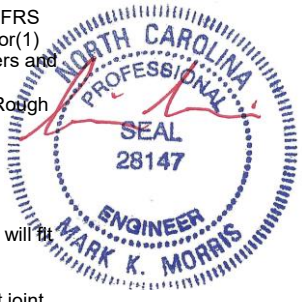
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-8-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 10-19, 8-20, 9-20, 9-19

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 27=1521/0-3-8 (min. 0-1-13), 15=1453/Mechanical
Max Horz 27=157(LC 12)
Max Uplift 27=-54(LC 12), 15=-37(LC 13)
Max Grav 27=1521(LC 1), 15=1490(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1135/61, 3-4=-3587/298, 4-5=-2354/177, 5-28=-1848/172, 6-28=-1833/202, 6-7=-1512/201, 7-8=-1500/199, 8-29=-1440/194, 9-29=-1440/194, 9-30=-1422/191, 10-30=-1424/191, 10-11=-1428/191, 11-12=-1727/187, 12-13=-1690/113, 13-14=-1321/50, 14-15=-1563/65, 2-27=-1100/93
BOT CHORD 26-27=-144/739, 4-24=-94/753, 23-24=-418/3308, 22-23=-119/1906, 21-22=-343/0, 7-22=-49/371, 20-31=-53/1485, 31-32=-53/1485, 19-32=-53/1485, 18-19=-31/1377, 18-33=-93/1489, 17-33=-93/1489, 17-34=-93/1489, 16-34=-93/1489
WEBS 4-23=-1426/302, 5-23=0/381, 5-22=-607/144, 6-22=-7/580, 20-22=-16/1903, 8-22=-85/599, 11-18=-25/429, 13-16=-1081/96, 14-16=-70/1998, 3-26=-1042/130, 24-26=-158/741, 3-24=-229/2338, 11-19=-145/452, 8-20=-837/106, 9-19=-280/105

**NOTES-** (10-13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 8-3-6, Exterior(2R) 8-3-6 to 17-10-10, Interior(1) 17-10-10 to 19-8-2, Exterior(2R) 19-8-2 to 29-3-8, Interior(1) 29-3-8 to 33-11-0, Exterior(2E) 33-11-0 to 36-7-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 27 and 37 lb uplift at joint 15.

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Continued on page 2

**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.

10) 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.
11) 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.
12) 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.
13) 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

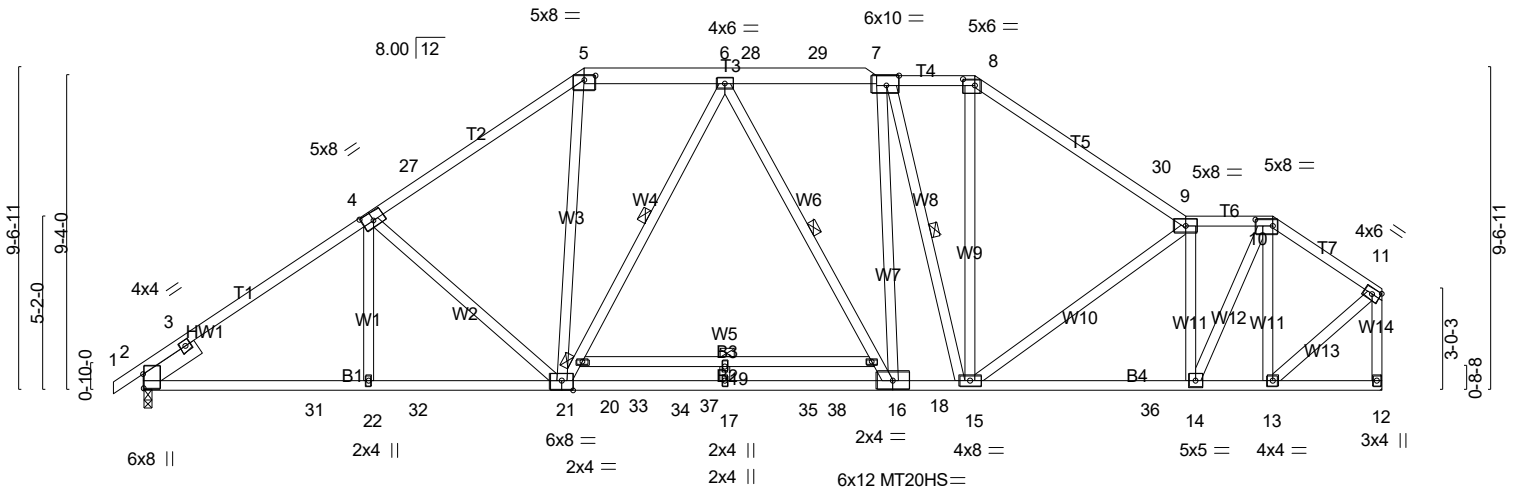

5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R10 | Piggyback Base | 1 | 1 | **# 48049** Job Reference (optional) |

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu May 2 21:34:00 2024 Page 1
ID:_mfwzPR2R41H41f3FUqwcGyHd9?-k0B7glh0phxw2UDR43Vi6PeCOBAgCdhbSYewBHzKQnr

| -0-10-8 | 6-8-4 | 13-1-0 | 17-3-0 | 21-5-0 | 21-9-0 | 24-8-0 | 30-11-0 | 33-6-0 | 36-8-12 |
|---|---|---|---|---|---|---|---|---|---|
| 0-10-8 | 6-8-4 | 6-4-12 | 4-2-0 | 4-2-0 | 0-4-0 | 2-11-0 | 6-3-0 | 2-7-0 | 3-2-12 |

Scale = 1:68.3




| 6-8-4 | 12-5-0 | 13-1-0 | 17-3-0 | 21-5-0 | 21-9-0 | 24-8-0 | 30-11-0 | 33-6-0 | 36-8-12 |
|---|---|---|---|---|---|---|---|---|---|
| 6-8-4 | 5-8-12 | 0-8-0 | 4-2-0 | 4-2-0 | 0-4-0 | 2-11-0 | 6-3-0 | 2-7-0 | 3-2-12 |

Plate Offsets (X,Y)-- [2:0-5-1,0-0-4], [4:0-4-0,0-3-0], [5:0-4-0,0-1-9], [7:0-4-8,Edge], [8:0-4-4,0-2-4], [10:0-6-4,0-2-4], [21:0-4-0,Edge]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 1.00 | Vert(LL) | -0.54 | 19 | >821 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.89 | Vert(CT) | -0.84 | 19 | >522 | 180 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.64 | Horz(CT) | 0.08 | 12 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-AS | | | | | | | Weight: 286 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except*
T3: 2x6 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
B4,B2: 2x4 SP SS
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -° 1-11-0

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
6-0-0 oc bracing: 18-20
WEBS 1 Row at midpt 6-20, 7-15, 6-16

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=1610/0-3-8 (min. 0-2-2), 12=1547/Mechanical
Max Horz 2=156(LC 12)
Max Uplift2=-5(LC 12), 12=-65(LC 13)
Max Grav 2=1788(LC 20), 12=1635(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-671/0, 3-4=-2481/81, 4-27=-2205/80, 5-27=-2126/111, 5-6=-1708/133, 6-28=-1798/128, 28-29=-1800/127, 7-29=-1802/127, 7-8=-1595/142, 8-30=-1900/121, 9-30=-1982/95, 9-10=-1661/99, 10-11=-1249/73, 11-12=-1598/81
BOT CHORD 2-31=-65/2067, 22-31=-65/2067, 22-32=-66/2066, 21-32=-66/2066, 21-33=0/1865, 33-34=0/1865, 17-34=0/1865, 17-35=0/1865, 16-35=0/1865, 15-16=0/1832, 15-36=-44/1696, 14-36=-44/1696, 13-14=-22/974
WEBS 4-21=-345/164, 20-21=-448/60, 6-20=-360/97, 7-15=-842/23, 8-15=0/761, 9-14=-1197/101, 10-14=-45/1536, 10-13=-823/30, 11-13=-26/1292, 5-21=0/893, 7-16=0/704

**NOTES-** (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 8-3-6, Exterior(2R) 8-3-6 to 17-10-10, Interior(1) 17-10-10 to 19-10-6, Exterior(2R) 19-10-6 to 29-5-10, Interior(1) 29-5-10 to 30-11-0, Exterior(2R) 30-11-0 to 33-6-0, Exterior(2E) 33-6-0 to 36-7-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 2 and 65 lb uplift at joint 12.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.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Continued on page 2

**Warning - 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.

**LOAD CASE(S)** Standard


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R11 | Piggyback Base | 1 | 1 | **# 48049** Job Reference (optional) |

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu May 2 21:34:01 2024 Page 1
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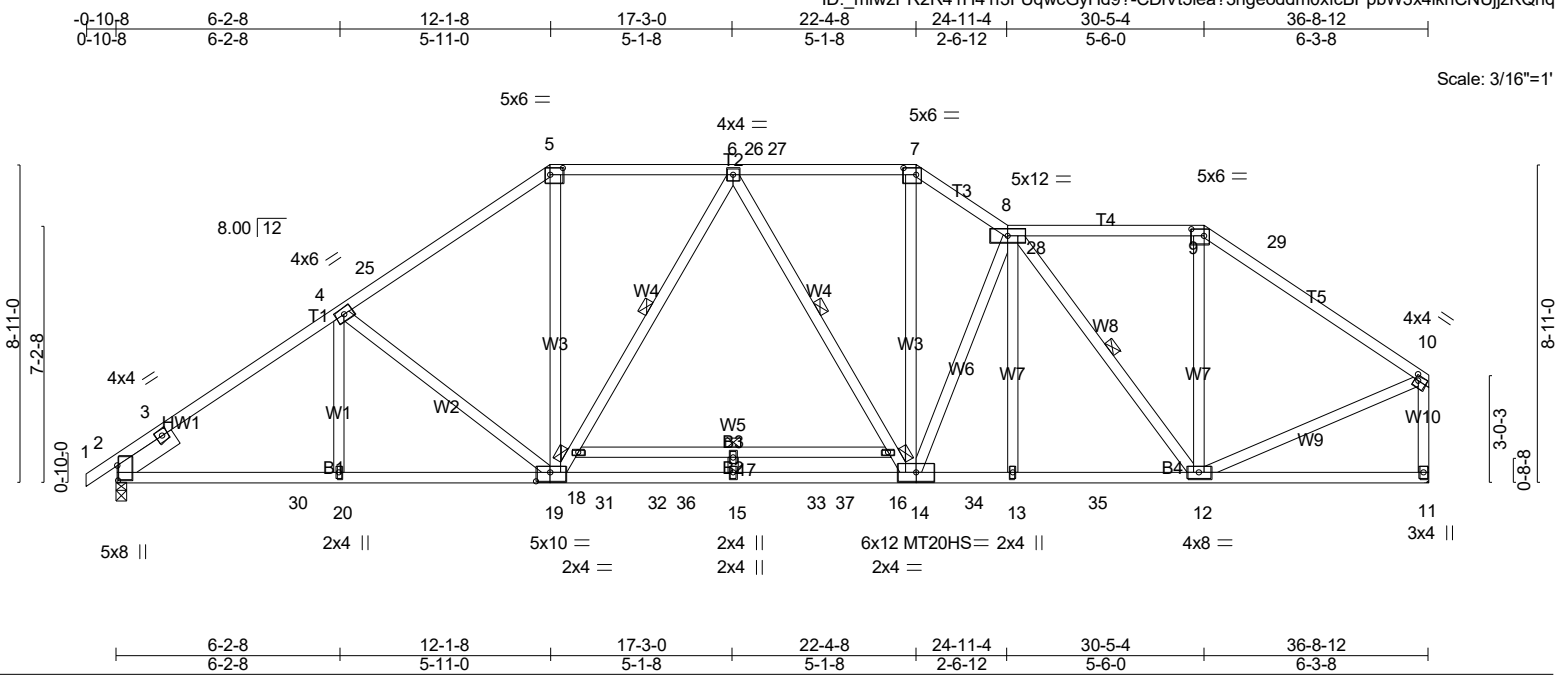



Plate Offsets (X,Y)-- [2:0-5-1,0-0-4], [5:0-4-4,0-2-4], [7:0-4-4,0-2-4], [9:0-4-4,0-2-4], [10:0-1-4,0-1-12], [19:0-4-12,0-3-0]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.89 | Vert(LL) | -0.57 | 15 | >777 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.88 | Vert(CT) | -0.89 | 15 | >492 | 180 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.58 | Horz(CT) | 0.08 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-AS | | | | | | | Weight: 263 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP SS *Except*
B3: 2x4 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -° 1-11-0

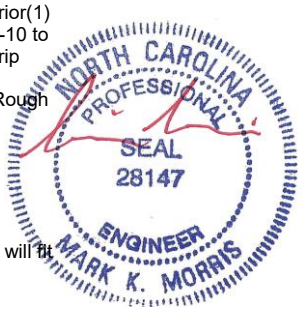
**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
6-0-0 oc bracing: 16-18
WEBS 1 Row at midpt 6-18, 6-16, 8-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=1612/0-3-8 (min. 0-2-1), 11=1548/Mechanical
Max Horz 2=149(LC 12)
Max Uplift11=-12(LC 13)
Max Grav 2=1726(LC 3), 11=1672(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-707/0, 3-4=-2409/77, 4-25=-2225/70, 5-25=-2151/99, 5-26=-1786/118, 6-26=-1786/118, 6-27=-1940/110, 7-27=-1940/110, 7-8=-2358/116, 8-28=-1350/103, 9-28=-1350/103, 9-29=-1539/82, 10-29=-1693/65, 10-11=-1616/72
BOT CHORD 2-30=-65/1942, 20-30=-65/1942, 19-20=-65/1942, 19-31=0/2062, 31-32=0/2062, 15-32=0/2062, 15-33=0/2062, 14-33=0/2062, 14-34=-17/2112, 13-34=-17/2112, 13-35=-17/2111, 12-35=-17/2111
WEBS 4-19=-274/158, 5-19=0/903, 18-19=-563/87, 6-18=-387/123, 14-16=-316/61, 7-14=-6/1089, 8-14=-520/145, 8-12=-1244/15, 9-12=0/610, 10-12=0/1408

**NOTES-** (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 7-3-14, Exterior(2R) 7-3-14 to 16-11-2, Interior(1) 16-11-2 to 17-6-14, Exterior(2R) 17-6-14 to 22-4-8, Exterior(2E) 22-4-8 to 24-11-4, Interior(1) 24-11-4 to 25-7-10, Exterior(2R) 25-7-10 to 31-9-6, Exterior(2E) 31-9-6 to 36-7-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 11.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.




5/2/2024

Continued on page 2

**Warning - 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 | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R11 | Piggyback Base | 1 | 1 | Job Reference (optional) **# 48049** |



**LOAD CASE(S)** Standard

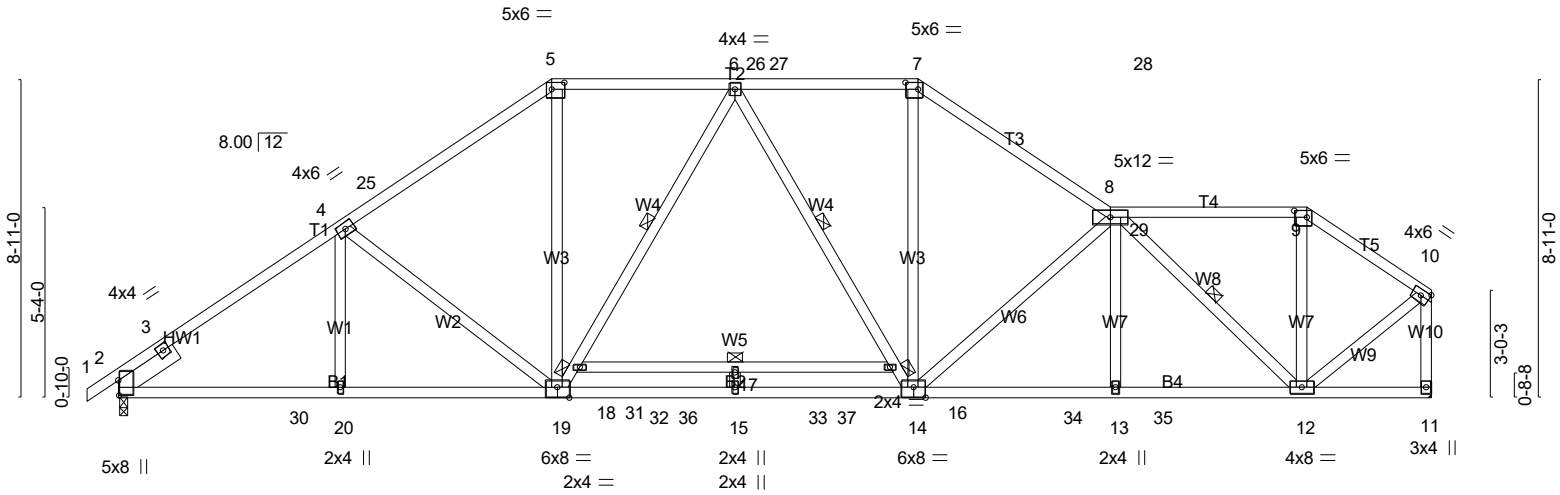

5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R12 | Piggyback Base | 1 | 1 | **# 48049** Job Reference (optional) |

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu May 2 21:34:02 2024 Page 1
ID:_mfwzPR2R41H41f3FUqwcGyHd9?-gPJt5RjGLIBdIoNqBUXACqjaq?qVgWLuvs71G9zKQnp

-0-10-8 | 6-2-8 | 12-1-8 | 17-3-0 | 22-4-8 | 27-9-0 | 33-3-0 | 36-8-12
0-10-8 | 6-2-8 | 5-11-0 | 5-1-8 | 5-1-8 | 5-4-8 | 5-6-0 | 3-5-12

Scale: 3/16"=1'




6-2-8 | 12-1-8 | 17-3-0 | 22-4-8 | 27-9-0 | 33-3-0 | 36-8-12
6-2-8 | 5-11-0 | 5-1-8 | 5-1-8 | 5-4-8 | 5-6-0 | 3-5-12

Plate Offsets (X,Y)-- [2:0-5-1,0-0-4], [5:0-4-4,0-2-4], [7:0-4-4,0-2-4], [9:0-4-4,0-2-4], [14:0-4-0,Edge], [19:0-4-0,Edge]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.88 | Vert(LL) | -0.58 | 17 | >763 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.93 | Vert(CT) | -0.91 | 17 | >485 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.69 | Horz(CT) | 0.09 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-AS | | | | | | | Weight: 252 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP SS *Except*
B4,B3: 2x4 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -° 1-11-0

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
6-0-0 oc bracing: 16-18
WEBS 1 Row at midpt 6-18, 6-16, 8-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=1612/0-3-8 (min. 0-2-0), 11=1548/Mechanical
Max Horz 2=149(LC 12)
Max Uplift11=-12(LC 13)
Max Grav 2=1706(LC 3), 11=1649(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-699/0, 3-4=-2378/87, 4-25=-2187/80, 5-25=-2112/110, 5-26=-1769/126, 6-26=-1769/126, 6-27=-1887/131, 7-27=-1887/131, 7-28=-2251/116, 8-28=-2323/89, 8-29=-1080/73, 9-29=-1080/73, 9-10=-1322/66, 10-11=-1629/65
BOT CHORD 2-30=-63/1916, 20-30=-63/1916, 19-20=-63/1916, 19-31=0/1973, 31-32=0/1973, 15-32=0/1973, 15-33=0/1973, 14-33=0/1973, 14-34=-63/2346, 13-34=-63/2346, 13-35=-62/2349, 12-35=-62/2349
WEBS 4-19=-278/157, 5-19=0/882, 18-19=-500/86, 6-18=-380/124, 14-16=-297/79, 7-14=0/980, 8-14=-642/121, 8-12=-1743/54, 9-12=0/478, 10-12=-27/1352

**NOTES-** (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 7-3-14, Exterior(2R) 7-3-14 to 16-11-2, Interior(1) 16-11-2 to 17-6-14, Exterior(2R) 17-6-14 to 27-2-2, Interior(1) 27-2-2 to 28-5-6, Exterior(2R) 28-5-6 to 33-3-0, Exterior(2E) 33-3-0 to 36-7-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 11.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

NORTH CAROLINA PROFESSIONAL SEAL 28147 ENGINEER MARK K. MORRIS

5/2/2024

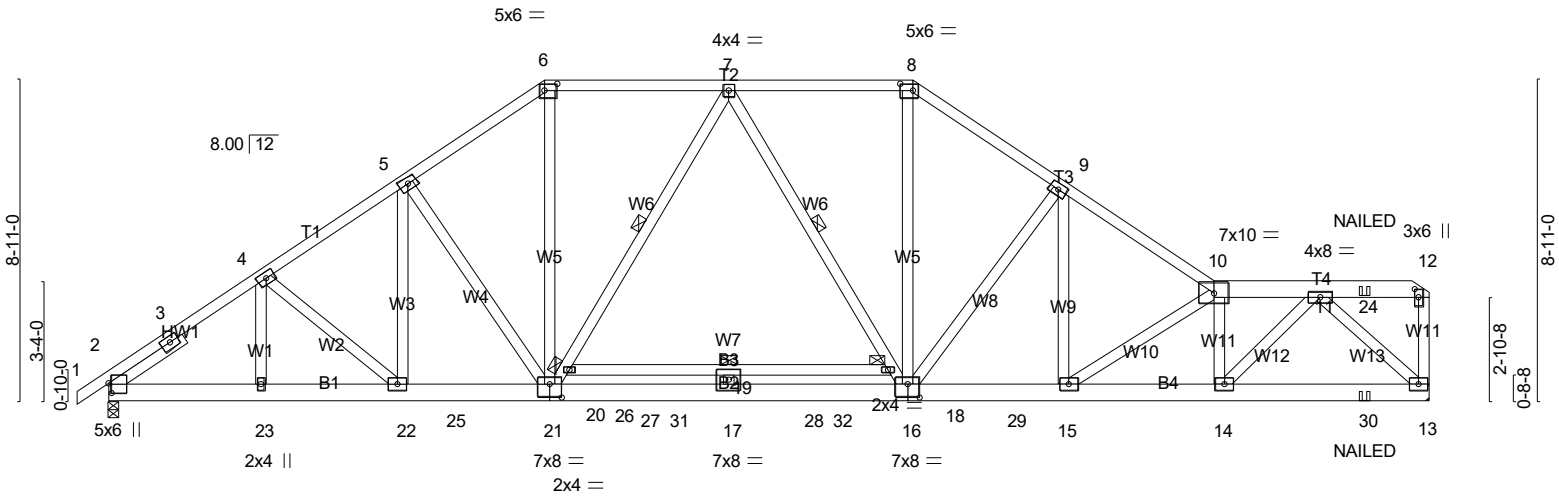
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R13 | Piggyback Base Girder | 1 | 1 | # 48049 |
| | | | | | Job Reference (optional) |

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu May 2 21:34:03 2024 Page 1
ID:_mfwzPR2R41H41f3FUqwcGyHd9?-8btFlmju6cKUvyy0lB3Pk1GopP9HPyV18WsaoczKQno

-0-10-8 4-2-13 8-2-3 12-1-8 17-3-0 22-4-8 26-6-12 30-9-0 33-6-0 36-3-0 36-8-12
0-10-8 4-2-13 3-11-5 3-11-5 5-1-8 5-1-8 4-2-4 4-2-4 2-9-0 2-9-0 0-5-12

Scale: 3/16"=1'




4-2-13 8-2-3 12-1-8 17-3-0 22-4-8 26-6-12 30-9-0 36-8-12
4-2-13 3-11-5 3-11-5 5-1-8 5-1-8 4-2-4 4-2-4 5-11-12

Plate Offsets (X,Y)-- [2:0-3-5,0-1-0], [6:0-4-4,0-2-4], [8:0-4-4,0-2-4], [12:0-2-12,0-1-4], [16:0-4-0,0-4-8], [21:0-4-0,0-4-8]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.67 | Vert(LL) | -0.26 | 19 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.96 | Vert(CT) | -0.45 | 19 | >971 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.76 | Horz(CT) | 0.07 | 13 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2021/TPI2014 | Matrix-SH | | | | | | | Weight: 297 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except* T4: 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* B2: 2x6 SP No.1, B3: 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -° 2-5-11

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-11-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 18-20
WEBS 1 Row at midpt 7-20, 7-18

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=1614/0-3-8 (min. 0-2-0), 13=1553/Mechanical
Max Horz 2=153(LC 10)
Max Uplift2=-1(LC 10), 13=-63(LC 11)
Max Grav 2=1704(LC 3), 13=1621(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2464/0, 3-4=-2403/0, 4-5=-2316/1, 5-6=-2219/0, 6-7=-1811/20, 7-8=-1921/24, 8-9=-2353/0, 9-10=-2705/0, 10-11=-2786/1
BOT CHORD 2-23=-75/1956, 22-23=-75/1956, 22-25=-13/1904, 21-25=-13/1904, 21-26=0/1967, 26-27=0/1967, 17-27=0/1967, 17-28=0/1967, 16-28=0/1967, 16-29=0/2213, 15-29=0/2213, 14-15=-1/2845, 14-30=-39/1505, 13-30=-39/1505
WEBS 5-21=-304/144, 6-21=0/994, 20-21=-441/100, 7-20=-397/125, 16-18=-268/109, 8-16=0/1058, 9-16=-599/145, 9-15=-25/444, 10-15=-768/58, 10-14=-1185/35, 11-14=0/1832, 11-13=-2101/54, 17-19=-284/0

**NOTES-** (13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 4x6 MT20 unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 2 and 63 lb uplift at joint 13.
11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).


5/2/2024

**LOAD CASE(S)** Standard

Continued on page 2

**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.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-60, 6-8=-60, 8-10=-60, 10-12=-60, 2-13=-20, 18-20=-20
   Concentrated Loads (lb)
   Vert: 30=-4(B)


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R14 | Piggyback Base | 1 | 1 | Job Reference (optional) **# 48049** |

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu May 2 21:34:04 2024 Page 1
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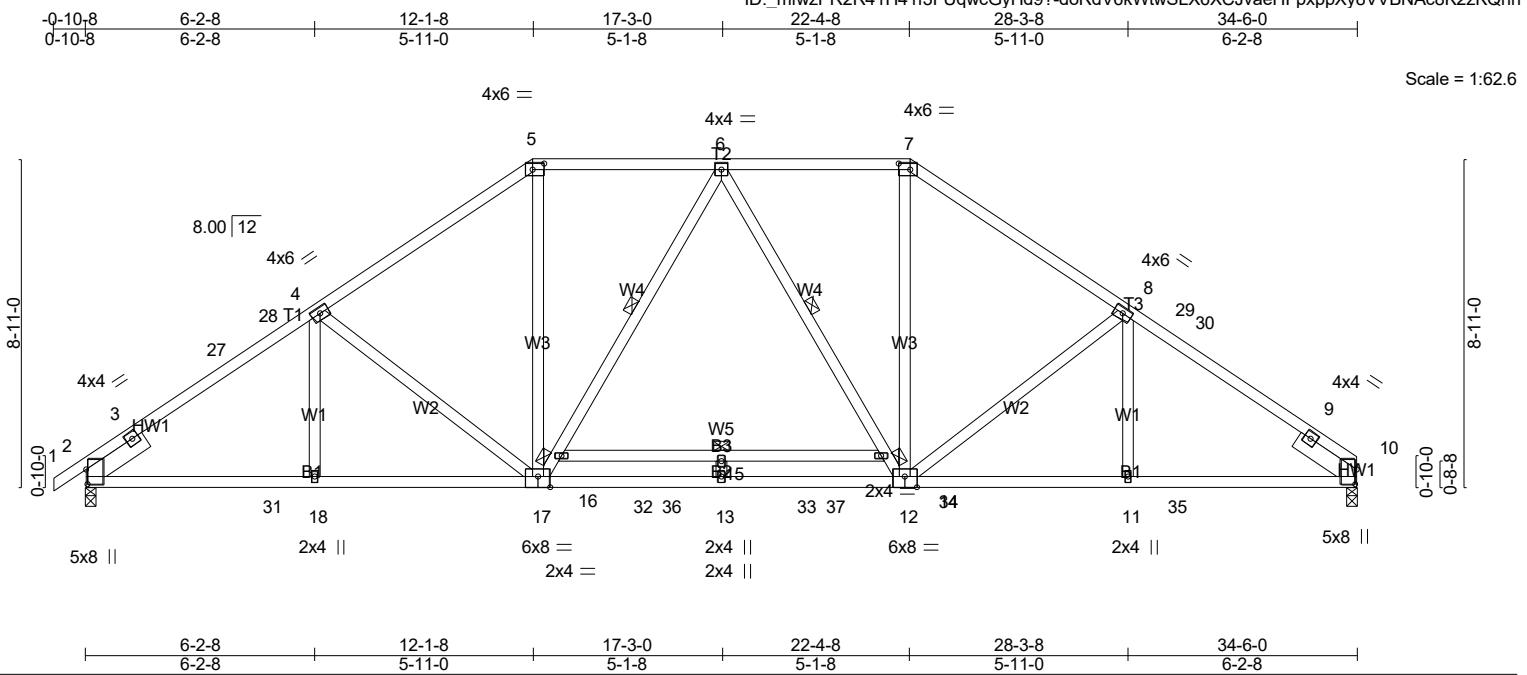



Plate Offsets (X,Y)-- [2:0-4-13,0-0-8], [5:0-3-12,0-2-0], [7:0-3-12,0-2-0], [10:0-4-13,0-0-8], [12:0-4-0,Edge], [17:0-4-0,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.78 | Vert(LL) | -0.56 | 15 | >738 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.87 | Vert(CT) | -0.87 | 15 | >475 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.33 | Horz(CT) | 0.09 | 10 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-AS | | | | | | | Weight: 223 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP SS *Except*
B3: 2x4 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -° 1-11-0, Right 2x6 SP No.2 -° 1-11-0

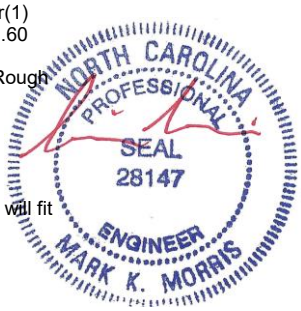
**BRACING-**
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied. Except:
6-0-0 oc bracing: 14-16
WEBS 1 Row at midpt 6-16, 6-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 10=1469/0-3-8 (min. 0-1-13), 2=1523/0-3-8 (min. 0-1-14)
Max Horz 2=152(LC 9)
Max Uplift2=-5(LC 12)
Max Grav 10=1553(LC 3), 2=1598(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-657/0, 3-27=-2207/71, 27-28=-2114/84, 4-28=-2086/89, 4-5=-2004/112, 5-6=-1614/129, 6-7=-1615/130, 7-8=-2005/114, 8-29=-2090/93, 29-30=-2113/89, 9-30=-2210/76, 9-10=-690/0
BOT CHORD 2-31=-28/1798, 18-31=-28/1798, 17-18=-28/1798, 17-32=0/1760, 13-32=0/1760, 13-33=0/1760, 33-34=0/1760, 12-34=0/1760, 11-12=-19/1763, 11-35=-19/1763, 10-35=-19/1763
WEBS 4-17=-288/155, 5-17=0/781, 16-17=-385/96, 6-16=-286/132, 6-14=-285/132, 12-14=-384/94, 7-12=0/782, 8-12=-293/156

**NOTES-** (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 5-4-1, Exterior(2R) 5-4-1 to 29-1-15, Interior(1) 29-1-15 to 29-8-6, Exterior(2E) 29-8-6 to 34-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 2.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.




**LOAD CASE(S)** Standard

5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R15 | Piggyback Base | 2 | 1 | Job Reference (optional) **# 48049** |

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu May 2 21:34:05 2024 Page 1
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-0-10-8 6-2-8 12-1-8 17-3-0 22-4-8 28-3-8 34-6-0 35-4-8
0-10-8 6-2-8 5-11-0 5-1-8 5-1-8 5-11-0 6-2-8 0-10-8

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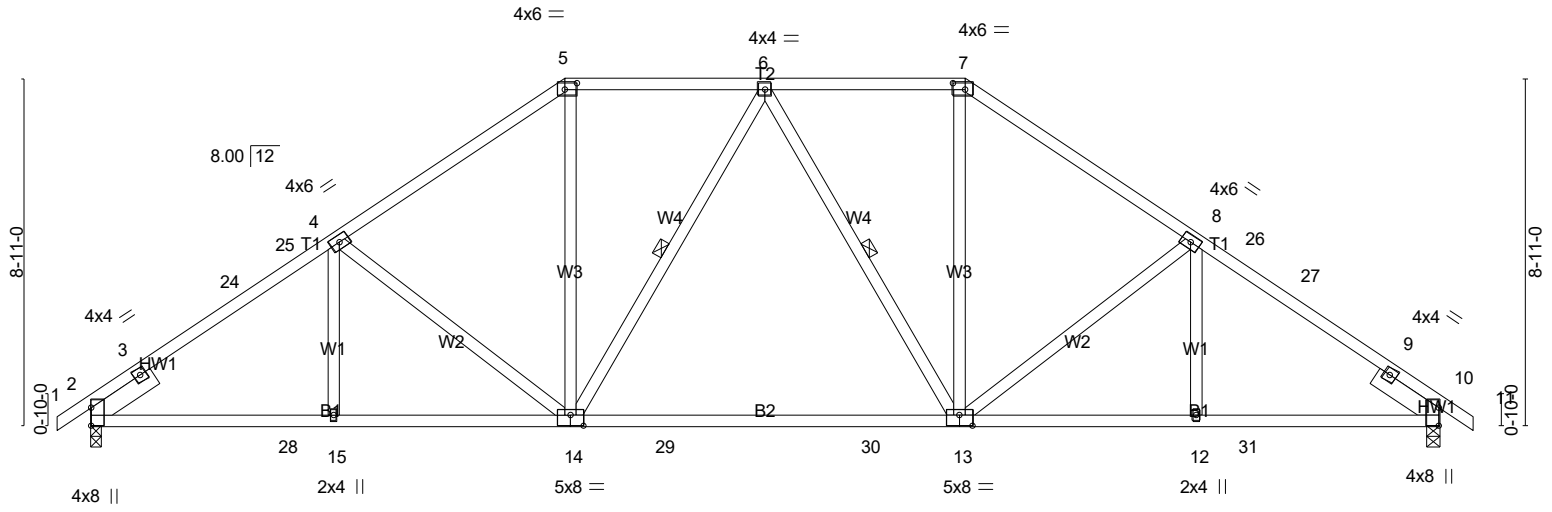


6-2-8 12-1-8 17-3-0 22-4-8 28-3-8 34-6-0
6-2-8 5-11-0 5-1-8 5-1-8 5-11-0 6-2-8

Plate Offsets (X,Y)-- [2:Edge,0-0-0], [5:0-3-12,0-2-0], [7:0-3-12,0-2-0], [10:Edge,0-0-0], [13:0-4-0,0-3-4], [14:0-4-0,0-3-4]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.69 | Vert(LL) | -0.53 | 13-14 | >784 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.99 | Vert(CT) | -0.77 | 13-14 | >536 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.35 | Horz(CT) | 0.09 | 10 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-AS | | | | | | | Weight: 211 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -° 1-11-0, Right 2x6 SP No.2 -° 1-11-0

**BRACING-**
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-14, 6-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=1433/0-3-8 (min. 0-1-11), 10=1432/0-3-8 (min. 0-1-11)
Max Horz 2=-156(LC 10)
Max Uplift2=-50(LC 12), 10=-50(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-553/0, 3-24=-1939/130, 24-25=-1851/153, 4-25=-1818/158, 4-5=-1704/189, 5-6=-1361/194, 6-7=-1361/194, 7-8=-1704/189, 8-26=-1818/158, 26-27=-1851/153, 9-27=-1939/130, 9-10=-553/0
BOT CHORD 2-28=-79/1585, 15-28=-79/1585, 14-15=-79/1585, 14-29=-14/1432, 29-30=-14/1432, 13-30=-14/1432, 12-13=-51/1540, 12-31=-51/1540, 10-31=-51/1540
WEBS 4-14=-320/144, 5-14=-4/617, 6-14=-286/132, 6-13=-286/132, 7-13=-4/617, 8-13=-320/145

**NOTES-** (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 5-4-1, Exterior(2R) 5-4-1 to 29-1-15, Interior(1) 29-1-15 to 30-6-14, Exterior(2E) 30-6-14 to 35-4-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 2 and 50 lb uplift at joint 10.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.


5/2/2024

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R16 | Piggyback Base | 1 | 1 | Job Reference (optional) **# 48049** |

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu May 2 21:34:06 2024 Page 1
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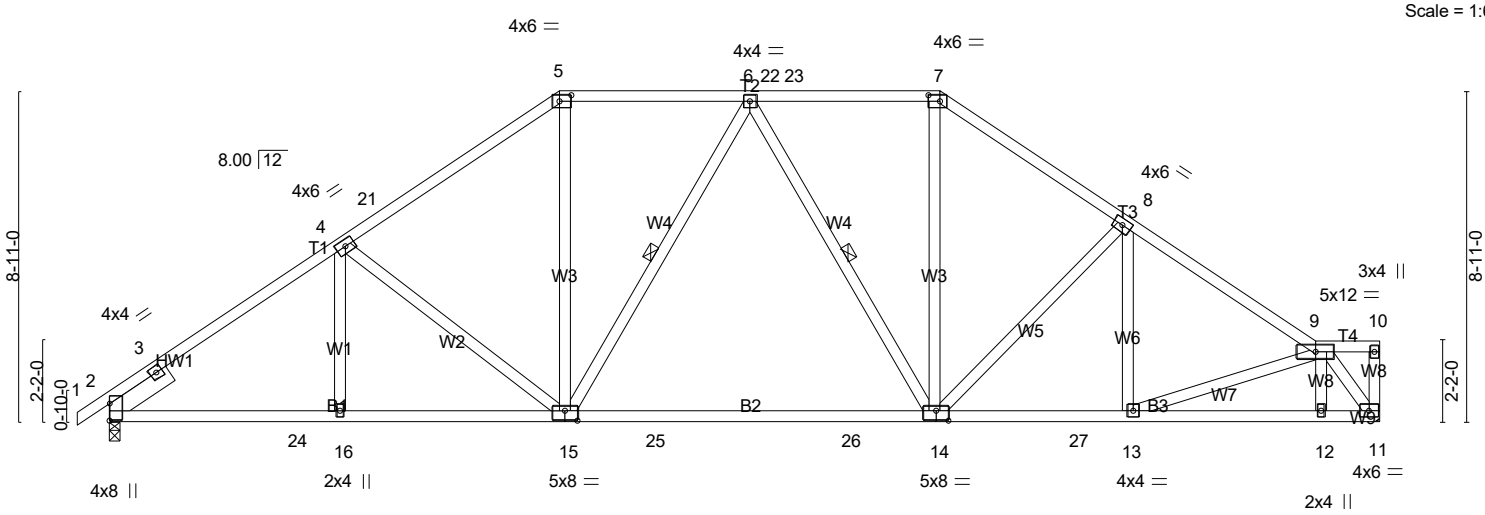
| -0-10-8 | 6-2-8 | 12-1-8 | 17-3-0 | 22-4-8 | 27-5-4 | 32-6-0 | 34-2-12 |
|---|---|---|---|---|---|---|---|
| 0-10-8 | 6-2-8 | 5-11-0 | 5-1-8 | 5-1-8 | 5-0-12 | 5-0-12 | 1-8-12 |

Scale = 1:62.1




| 6-2-8 | 12-1-8 | 17-3-0 | 22-4-8 | 27-5-4 | 32-6-0 | 34-2-12 |
|---|---|---|---|---|---|---|
| 6-2-8 | 5-11-0 | 5-1-8 | 5-1-8 | 5-0-12 | 5-0-12 | 1-8-12 |

Plate Offsets (X,Y)-- [2:Edge,0-0-0], [5:0-3-12,0-2-0], [7:0-3-12,0-2-0], [14:0-4-0,0-3-4], [15:0-4-0,0-3-4]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.67 | Vert(LL) | -0.51 | 14-15 | >798 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.98 | Vert(CT) | -0.76 | 14-15 | >541 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.38 | Horz(CT) | 0.07 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-AS | | | | | | | Weight: 219 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -° 1-11-0

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-15, 6-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 11=1363/Mechanical, 2=1417/0-3-8 (min. 0-1-11)
Max Horz 2=150(LC 9)
Max Uplift11=-36(LC 13), 2=-50(LC 12)
Max Grav 11=1371(LC 3), 2=1417(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-550/0, 3-4=-1921/150, 4-21=-1686/151, 5-21=-1608/181, 5-22=-1345/186, 6-22=-1345/186, 6-23=-1327/184, 7-23=-1327/184, 7-8=-1665/184, 8-9=-1821/148
BOT CHORD 2-24=-107/1560, 16-24=-107/1560, 15-16=-107/1560, 15-25=-44/1411, 25-26=-44/1411, 14-26=-44/1411, 14-27=-79/1468, 13-27=-79/1468, 12-13=-66/1148, 11-12=-62/1155
WEBS 4-15=-322/145, 5-15=-2/610, 6-15=-269/133, 6-14=-309/127, 7-14=-14/644, 8-14=-282/127, 9-13=-13/341, 9-11=-1754/94

**NOTES-** (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 7-3-14, Exterior(2R) 7-3-14 to 16-11-2, Interior(1) 16-11-2 to 17-6-14, Exterior(2R) 17-6-14 to 27-5-4, Interior(1) 27-5-4 to 32-6-0, Exterior(2E) 32-6-0 to 34-1-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 11 and 50 lb uplift at joint 2.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.


**LOAD CASE(S)** Standard

5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R17 | Piggyback Base | 1 | 1 | Job Reference (optional) **# 48049** |

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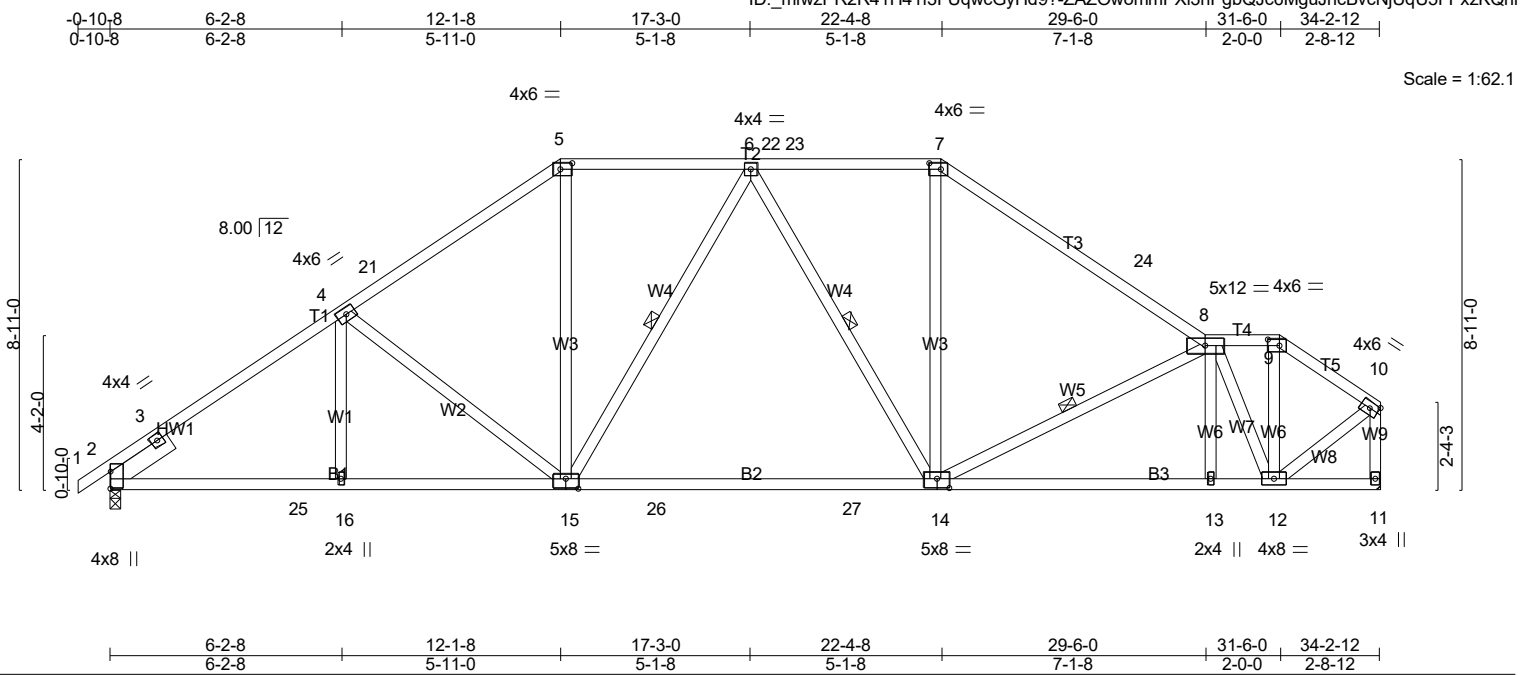


Plate Offsets (X,Y)-- [2:Edge,0-0-0], [5:0-3-12,0-2-0], [7:0-3-12,0-2-0], [9:0-3-12,0-2-0], [14:0-4-0,0-3-0], [15:0-4-0,0-3-4]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.69 | Vert(LL) | -0.51 | 14-15 | >801 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.97 | Vert(CT) | -0.73 | 14-15 | >562 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.47 | Horz(CT) | 0.06 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-AS | | | | | | | Weight: 222 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B1: 2x4 SP No.1, B2: 2x4 SP SS
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -° 1-11-0

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-15, 6-14, 8-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=1417/0-3-8 (min. 0-1-11), 11=1363/Mechanical
Max Horz 2=149(LC 9)
Max Uplift2=-49(LC 12), 11=-37(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-545/0, 3-4=-1899/150, 4-21=-1662/152, 5-21=-1585/182, 5-22=-1326/187, 6-22=-1326/187, 6-23=-1296/187, 7-23=-1296/187, 7-24=-1550/171, 8-24=-1646/145, 8-9=-887/89, 9-10=-1094/89, 10-11=-1327/100
BOT CHORD 2-25=-110/1540, 16-25=-110/1540, 15-16=-110/1540, 15-26=-50/1380, 26-27=-50/1380, 14-27=-50/1380, 13-14=-98/1438, 12-13=-96/1442
WEBS 4-15=-324/144, 5-15=-0/594, 6-15=-267/131, 6-14=-300/127, 7-14=0/550, 8-12=-1286/106, 9-12=-52/519, 10-12=-58/1070

**NOTES-** (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 7-3-14, Exterior(2R) 7-3-14 to 16-11-2, Interior(1) 16-11-2 to 17-6-14, Exterior(2R) 17-6-14 to 27-2-2, Interior(1) 27-2-2 to 29-6-0, Exterior(2R) 29-6-0 to 31-6-0, Exterior(2E) 31-6-0 to 34-1-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 2 and 37 lb uplift at joint 11.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.


**LOAD CASE(S)** Standard

5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R18 | Roof Special | 1 | 1 | Job Reference (optional) **# 48049** |

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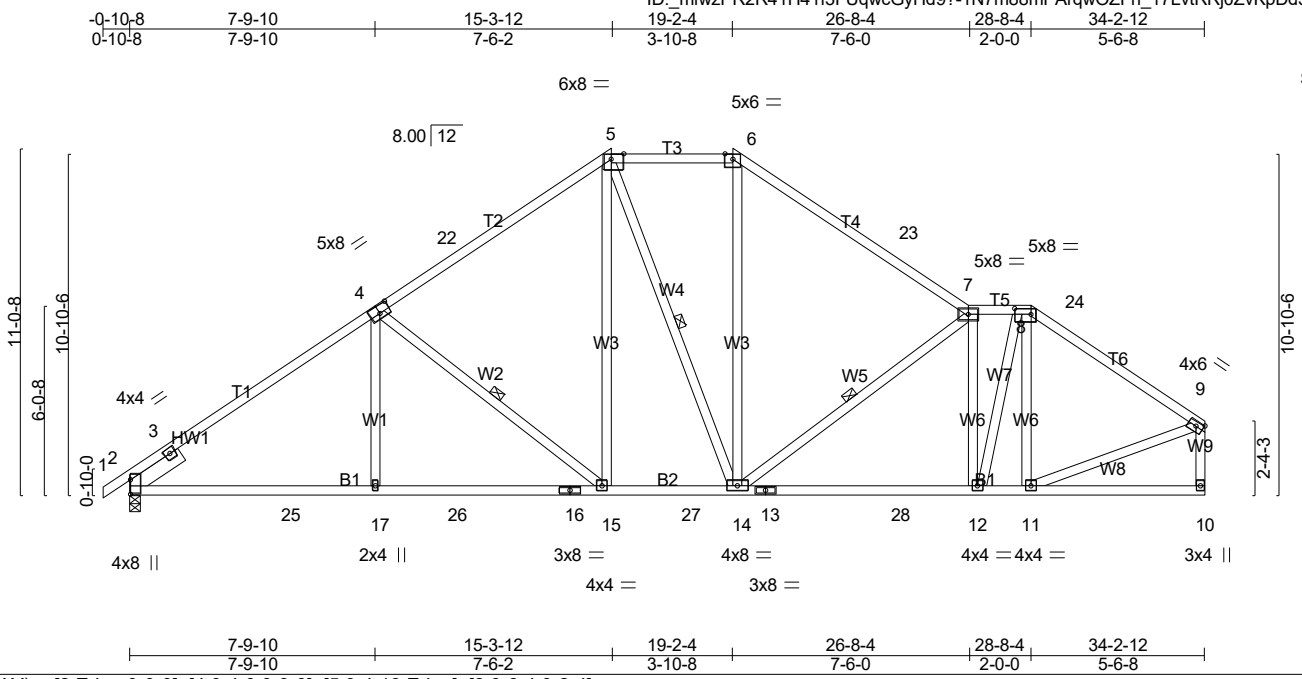



7-9-10 15-3-12 19-2-4 26-8-4 28-8-4 34-2-12
7-9-10 7-6-2 3-10-8 7-6-0 2-0-0 5-6-8

Plate Offsets (X,Y)-- [2:Edge,0-0-0], [4:0-4-0,0-3-0], [5:0-4-13,Edge], [8:0-6-4,0-2-4]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.87 | Vert(LL) | -0.12 | 15-17 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.85 | Vert(CT) | -0.26 | 15-17 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.52 | Horz(CT) | 0.07 | 10 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-AS | | | | | | | Weight: 235 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -° 1-11-0

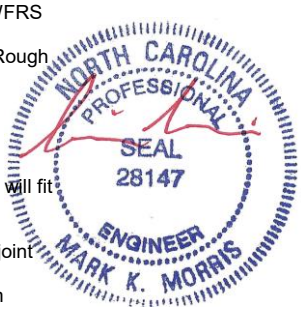
**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-15, 5-14, 7-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=1417/0-3-8 (min. 0-1-13), 10=1363/Mechanical
Max Horz 2=185(LC 9)
Max Uplift2=-66(LC 12), 10=-53(LC 13)
Max Grav 2=1534(LC 20), 10=1384(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-544/0, 3-4=-2078/137, 4-22=-1530/150, 5-22=-1424/186, 5-6=-1163/198, 6-23=-1396/182, 7-23=-1497/156, 7-8=-1467/144, 8-24=-1325/115, 9-24=-1460/100, 9-10=-1325/101
BOT CHORD 2-25=-136/1755, 17-25=-136/1755, 17-26=-137/1752, 16-26=-137/1752, 15-16=-137/1752, 15-27=-3/1220, 14-27=-3/1220, 13-14=-65/1486, 13-28=-65/1486, 12-28=-65/1486, 11-12=-41/1138
WEBS 4-17=0/406, 4-15=-666/169, 5-15=-46/617, 6-14=-23/516, 7-14=-449/136, 7-12=-798/125, 8-12=-67/1071, 8-11=-401/36, 9-11=-34/1159

**NOTES-** (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 10-6-2, Exterior(2R) 10-6-2 to 23-11-14, Interior(1) 23-11-14 to 26-8-4, Exterior(2R) 26-8-4 to 29-3-6, Exterior(2E) 29-3-6 to 34-1-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 2 and 53 lb uplift at joint 10.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.




5/2/2024

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R19 | Roof Special | 1 | 1 | **# 48049** |
| | | | | | Job Reference (optional) |

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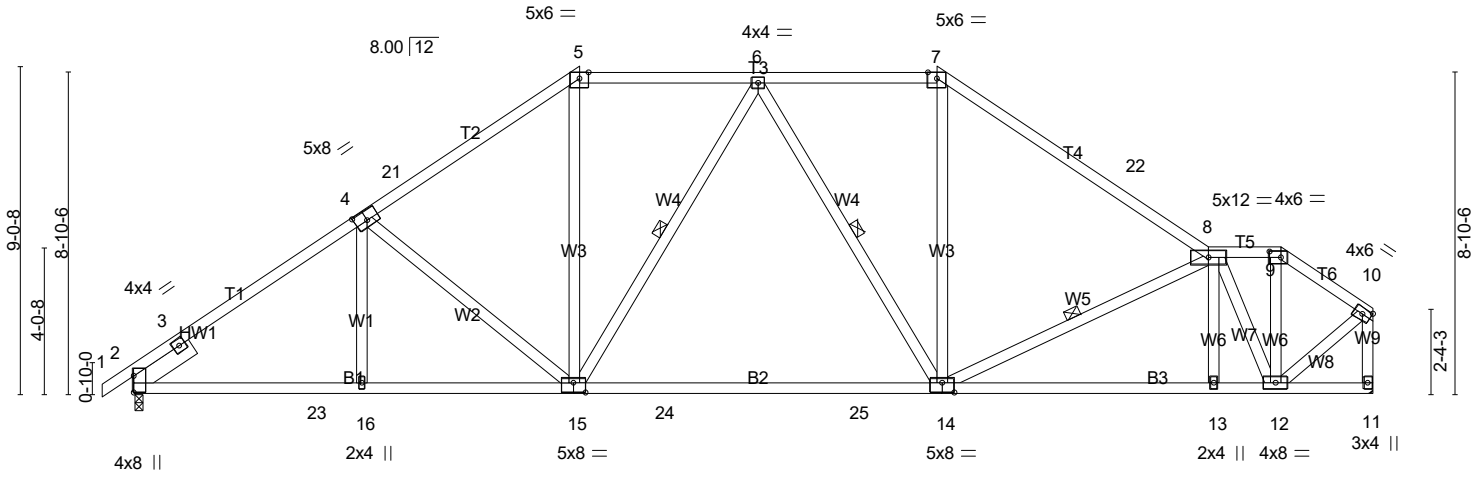
-0-10-8 | 6-3-10 | 12-3-12 | 17-3-0 | 22-2-4 | 29-8-4 | 31-8-4 | 34-2-12
0-10-8 | 6-3-10 | 6-0-2 | 4-11-4 | 4-11-4 | 7-6-0 | 2-0-0 | 2-6-8

Scale: 3/16"=1'




6-3-10 | 12-3-12 | 22-2-4 | 29-8-4 | 31-8-4 | 34-2-12
6-3-10 | 6-0-2 | 9-10-8 | 7-6-0 | 2-0-0 | 2-6-8

Plate Offsets (X,Y)-- [2:Edge,0-0-0], [4:0-4-0,0-3-0], [9:0-3-12,0-2-0], [14:0-4-0,0-3-4], [15:0-4-0,0-3-4]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.77 | Vert(LL) | -0.53 | 14-15 | >769 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.92 | Vert(CT) | -0.76 | 14-15 | >538 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.47 | Horz(CT) | 0.06 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-AS | | | | | | | Weight: 221 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
B2: 2x4 SP SS
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -° 1-11-0

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-15, 6-14, 8-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=1417/0-3-8 (min. 0-1-11), 11=1363/Mechanical
Max Horz 2=149(LC 9)
Max Uplift2=-51(LC 12), 11=-38(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-550/0, 3-4=-1905/152, 4-21=-1677/155, 5-21=-1599/184, 5-6=-1330/188, 6-7=-1304/189, 7-22=-1566/171, 8-22=-1666/145, 8-9=-857/85, 9-10=-1056/86, 10-11=-1328/100
BOT CHORD 2-23=-110/1548, 16-23=-110/1548, 15-16=-111/1547, 15-24=-53/1391, 24-25=-53/1391, 14-25=-53/1391, 13-14=-101/1441, 12-13=-99/1445
WEBS 4-15=-305/146, 5-15=-3/602, 6-15=-278/129, 6-14=-308/129, 7-14=0/555, 8-12=-1326/111, 9-12=-57/521, 10-12=-58/1062

**NOTES-** (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 7-6-2, Exterior(2R) 7-6-2 to 26-11-14, Interior(1) 26-11-14 to 29-8-4, Exterior(2R) 29-8-4 to 31-8-4, Exterior(2E) 31-8-4 to 34-1-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 2 and 38 lb uplift at joint 11.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.


**LOAD CASE(S)** Standard

5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R20 | Hip Girder | 1 | 2 | Job Reference (optional) **# 48049** |

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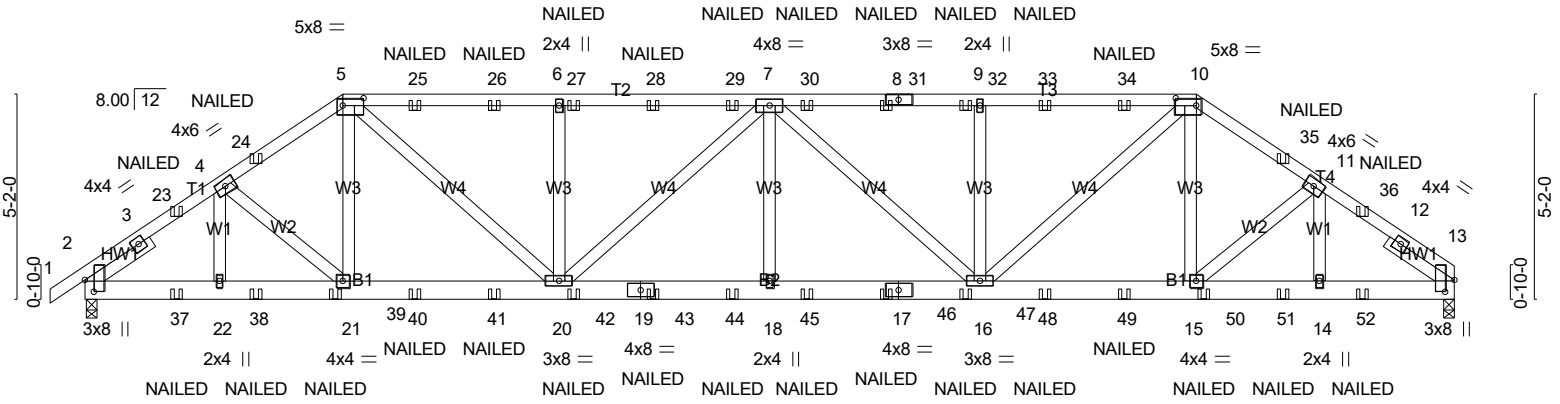
| -0-10-8 | 3-4-12 | 6-6-0 | 11-11-6 | 17-3-0 | 22-6-10 | 28-0-0 | 31-1-4 | 34-6-0 |
|---|---|---|---|---|---|---|---|---|
| 0-10-8 | 3-4-12 | 3-1-4 | 5-5-6 | 5-3-10 | 5-3-10 | 5-5-6 | 3-1-4 | 3-4-12 |

Scale = 1:58.0




| 3-4-12 | 6-6-0 | 11-11-6 | 17-3-0 | 22-6-10 | 28-0-0 | 31-1-4 | 34-6-0 |
|---|---|---|---|---|---|---|---|
| 3-4-12 | 3-1-4 | 5-5-6 | 5-3-10 | 5-3-10 | 5-5-6 | 3-1-4 | 3-4-12 |

Plate Offsets (X,Y)-- [2:0-3-9,0-2-12], [5:0-6-4,0-2-4], [10:0-6-4,0-2-4], [13:0-3-9,0-2-12]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.32 | Vert(LL) | 0.12 | 18 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.38 | Vert(CT) | -0.17 | 18 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.28 | Horz(CT) | 0.05 | 13 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | | Weight: 469 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -° 1-11-10, Right 2x4 SP No.3 -° 1-11-10

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

**REACTIONS.** (lb/size) 13=1972/0-3-8 (min. 0-1-8), 2=2026/0-3-8 (min. 0-1-8)
Max Horz 2=88(LC 7)
Max Uplift13=-699(LC 6), 2=-706(LC 10)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2827/1056, 3-23=-2770/1057, 4-23=-2730/1046, 4-24=-2732/1102, 5-24=-2711/1114, 5-25=-3276/1411, 25-26=-3276/1411, 6-26=-3275/1411, 6-27=-3276/1411, 27-28=-3276/1411, 28-29=-3276/1411, 7-29=-3276/1411, 7-30=-3277/1412, 30-31=-3277/1412, 8-31=-3277/1412, 8-32=-3277/1412, 9-32=-3277/1412, 9-33=-3277/1411, 33-34=-3277/1411, 10-34=-3278/1411, 10-35=-2715/1115, 11-35=-2735/1102, 11-36=-2739/1047, 12-36=-2779/1058, 12-13=-2835/1057
BOT CHORD 2-37=-896/2196, 22-37=-896/2196, 22-38=-896/2196, 38-39=-896/2196, 21-39=-896/2196, 21-40=-959/2267, 40-41=-959/2267, 20-41=-959/2267, 20-42=-1562/3610, 19-42=-1562/3610, 19-43=-1562/3610, 43-44=-1562/3610, 18-44=-1562/3610, 18-45=-1562/3610, 45-46=-1562/3610, 17-46=-1562/3610, 17-47=-1562/3610, 16-47=-1562/3610, 16-48=-898/2270, 48-49=-898/2270, 15-49=-898/2270, 15-50=-811/2205, 50-51=-811/2205, 14-51=-811/2205, 14-52=-811/2205, 13-52=-811/2205
WEBS 5-21=-131/322, 5-20=-655/1372, 6-20=-396/235, 7-20=-476/232, 7-18=-70/297, 7-16=-475/231, 9-16=-396/235, 10-16=-656/1371, 10-15=-132/326

**NOTES-** (12)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.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Continued on page 2

**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.

**NOTES-** (12)

9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 699 lb uplift at joint 13 and 706 lb uplift at joint 2.
11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-5=-60, 5-10=-60, 10-13=-60, 2-13=-20
   Concentrated Loads (lb)
      Vert: 23=-26(B) 25=-22(B) 26=-22(B) 27=-22(B) 28=-22(B) 29=-22(B) 30=-22(B) 31=-22(B) 32=-22(B) 33=-22(B) 34=-22(B) 36=-26(B) 37=-49(B) 38=-80(B) 39=-120(B) 40=-42(B) 41=-42(B) 42=-42(B) 43=-42(B) 44=-42(B) 45=-42(B) 46=-42(B) 47=-42(B) 48=-42(B) 49=-42(B) 50=-120(B) 51=-80(B) 52=-49(B)


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R21 | Half Hip Girder | 1 | 1 | Job Reference (optional) **# 48049** |

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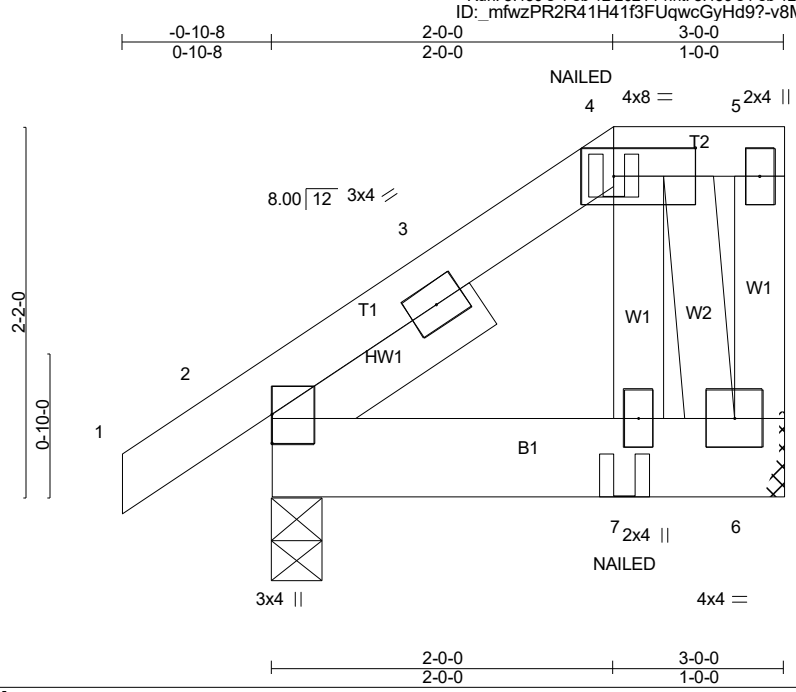


Scale = 1:13.5

Plate Offsets (X,Y)-- [4:0-5-12,0-2-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.09 | Vert(LL) | -0.00 | 2 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | -0.00 | 2 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.02 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | Weight: 22 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -° 1-4-13

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 6=90/Mechanical, 2=168/0-3-8 (min. 0-1-8)
Max Horz 2=54(LC 48)
Max Uplift6=-45(LC 10), 2=-19(LC 10)
Max Grav 6=90(LC 2), 2=168(LC 2)

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

**NOTES-** (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 6 and 19 lb uplift at joint 2.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-5=-60, 2-6=-20
Concentrated Loads (lb)
Vert: 7=4(B) 4=19(B)


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R22 | Roof Special | 4 | 1 | Job Reference (optional) **# 48049** |

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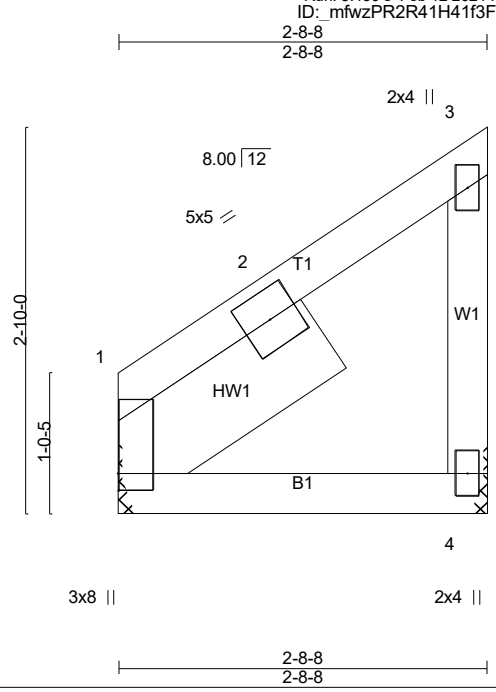


Scale = 1:16.9

Plate Offsets (X,Y)-- [1:0-1-8,0-0-1]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | -0.00 | 1-4 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.07 | Vert(CT) | -0.01 | 1-4 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | Weight: 18 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP No.2 -° 1-9-14

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-8-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=103/Mechanical, 4=103/Mechanical
Max Horz 1=68(LC 12)
Max Uplift4=-42(LC 12)
Max Grav 1=103(LC 1), 4=108(LC 19)

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

**NOTES-** (7)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 4.

**LOAD CASE(S)** Standard


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R23 | Monopitch | 1 | 1 | Job Reference (optional) **# 48049** |

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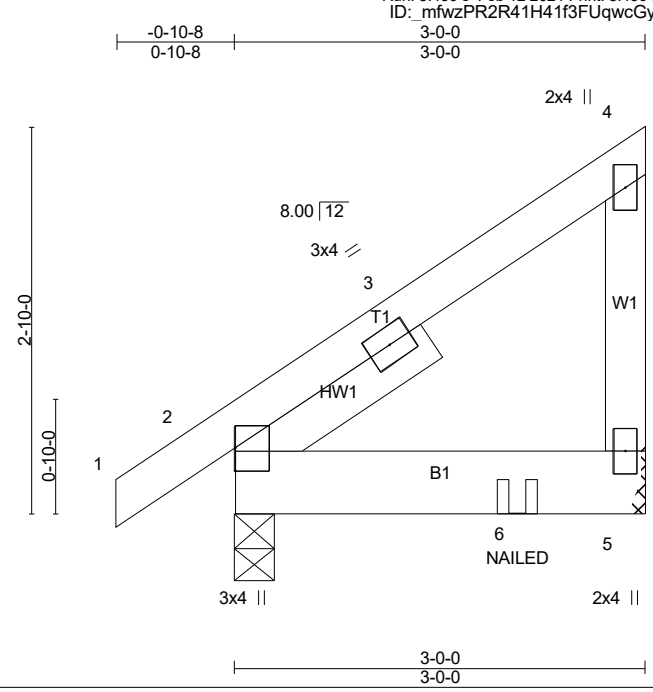


| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.14 | Vert(LL) | -0.00 | 2-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(CT) | -0.00 | 2-5 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.00 | Horz(CT) | 0.00 | | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | Weight: 20 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -° 1-7-11

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 5=123/Mechanical, 2=181/0-3-8 (min. 0-1-8)
Max Horz 2=69(LC 10)
Max Uplift5=-62(LC 10), 2=-9(LC 10)

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

**NOTES-** (10)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 5 and 9 lb uplift at joint 2.
8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 2-5=-20
Concentrated Loads (lb)
Vert: 6=-24(F)


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| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R24 | Hip Girder | 1 | 2 | Job Reference (optional) **# 48049** |

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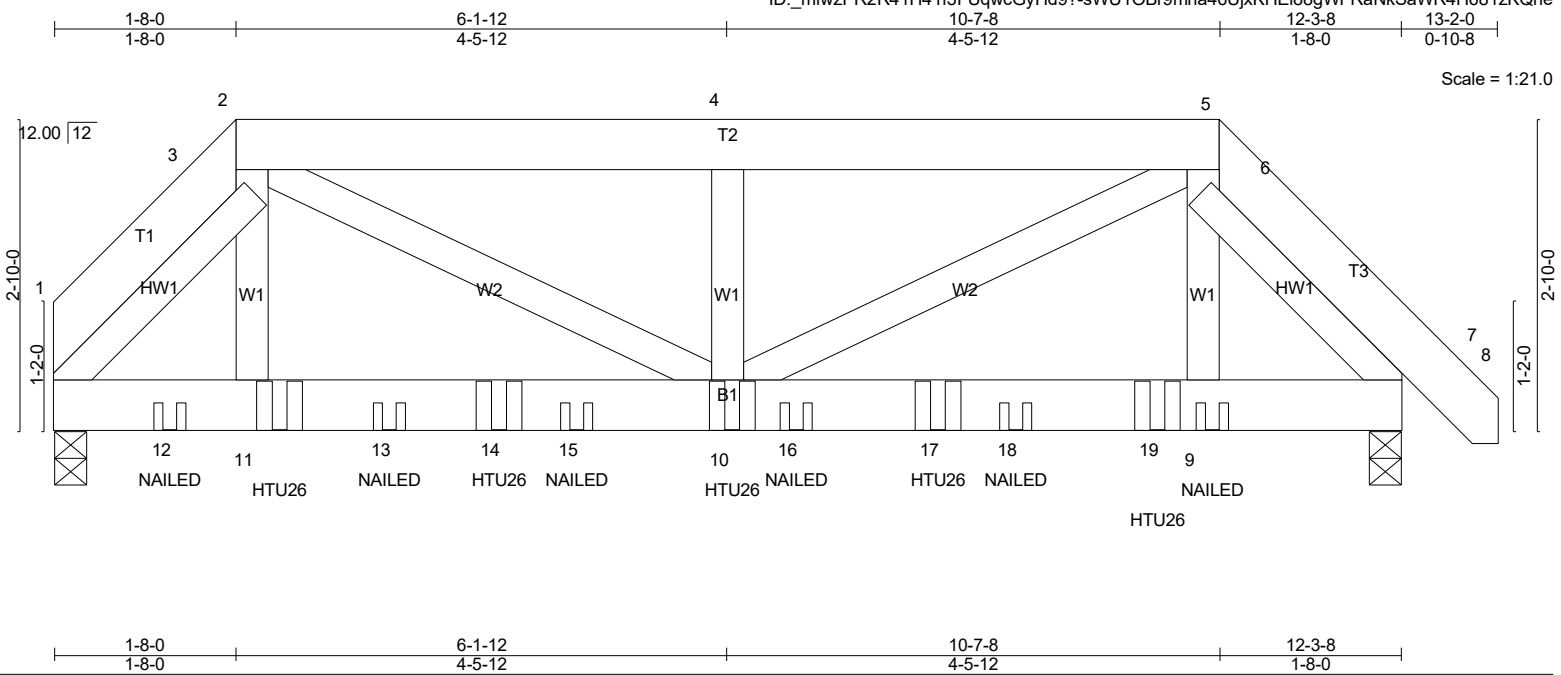





| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.61 | Vert(LL) | -0.06 | 9-10 | >999 | 240 | | |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.98 | Vert(CT) | -0.11 | 9-10 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.78 | Horz(CT) | 0.02 | 7 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | | Weight: 189 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -° 2-6-0, Right 2x4 SP No.3 -° 2-6-0

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-8-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 1=4616/0-3-8 (min. 0-2-12), 7=4465/0-3-8 (min. 0-2-10)
Max Horz 1=-78(LC 37)
Max Uplift7=-338(LC 6)
Max Grav 1=4677(LC 4), 7=4465(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-732/45, 1-2=-5315/34, 2-3=-271/28, 2-4=-6916/457, 4-5=-6916/457, 5-6=-285/40, 5-7=-5250/419, 6-7=-755/66
BOT CHORD 1-12=-68/3498, 11-12=-68/3498, 11-13=-55/3669, 13-14=-55/3669, 14-15=-55/3669, 10-15=-55/3669, 10-16=-281/3607, 16-17=-281/3607, 17-18=-281/3607, 18-19=-281/3607, 9-19=-281/3607, 7-9=-266/3442
WEBS 2-11=0/2791, 2-10=-493/3739, 5-10=-203/3790, 5-9=-254/2704

**NOTES-** (15)
1) Ply to ply nailing inadequate
2) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
3) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
4) Unbalanced roof live loads have been considered for this design.
5) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
6) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
8) Provide adequate drainage to prevent water ponding.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 338 lb uplift at joint 7.
12) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-1-8 oc max. starting at 2-0-12 from the left end to 10-0-12 to connect truss(es) R09 (1 ply 2x4 SP), R10 (1 ply 2x4 SP), R11 (1 ply 2x4 SP), R12 (1 ply 2x4 SP), R13 (1 ply 2x6 SP) to back face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.
14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.


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Continued on page 2

**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.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-3=-60, 2-3=60, 2-5=-60, 5-6=60, 5-6=-60, 7-8=-60, 1-7=-20
   Concentrated Loads (lb)
   Vert: 11=-1533(B) 10=-1443(B) 9=-103(F) 12=-70(F) 13=-82(F) 14=-1443(B) 15=-82(F) 16=-82(F) 17=-1443(B) 18=-82(F) 19=-1446(B)


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| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R25 | Monopitch Supported Gable | 1 | 1 | **# 48049** Job Reference (optional) |

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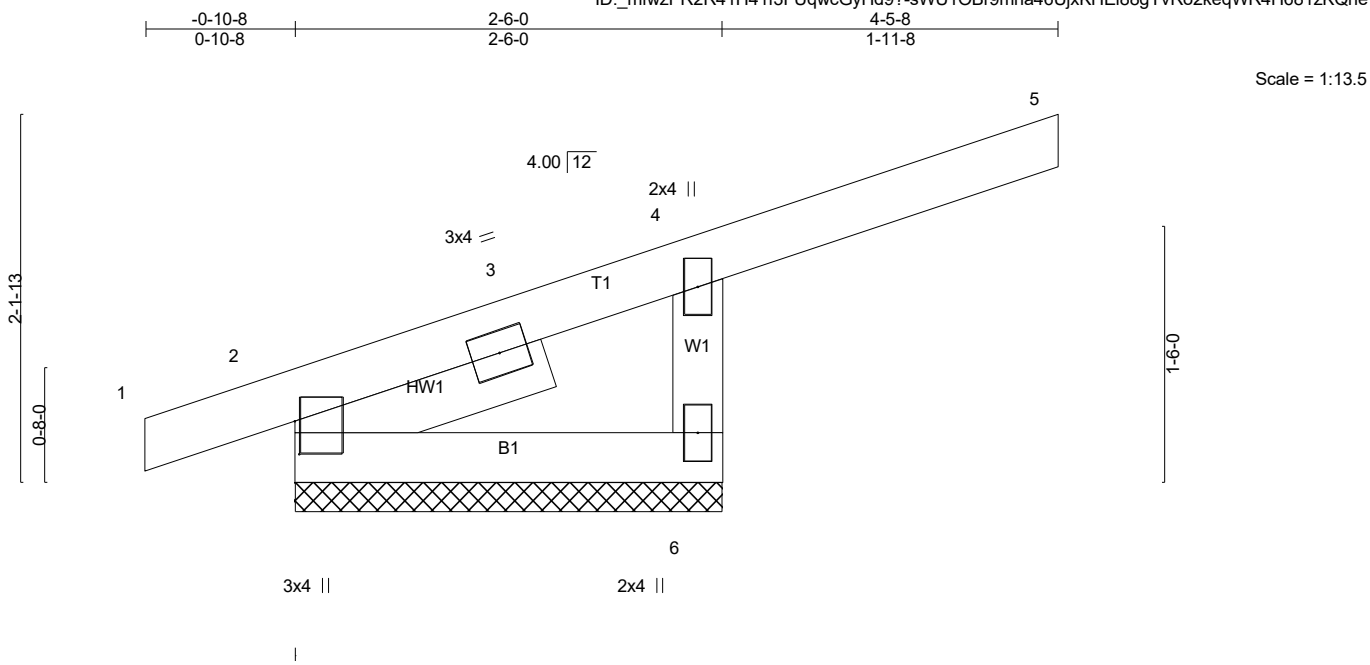


Plate Offsets (X,Y)-- [2:0-2-5,0-0-5]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.50 | Vert(LL) | 0.01 | 5 | n/r | 180 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.10 | Vert(CT) | -0.01 | 5 | n/r | 80 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | Weight: 16 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -° 1-6-7

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 6=267/2-6-0 (min. 0-1-8), 2=100/2-6-0 (min. 0-1-8)
Max Horz 2=47(LC 14)
Max Uplift6=-72(LC 11), 2=-6(LC 10)
Max Grav 6=378(LC 21), 2=135(LC 21)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-6=-354/369

**NOTES-** (12)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 6 and 6 lb uplift at joint 2.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

**LOAD CASE(S)** Standard


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R26 | Monopitch | 4 | 1 | Job Reference (optional) **# 48049** |

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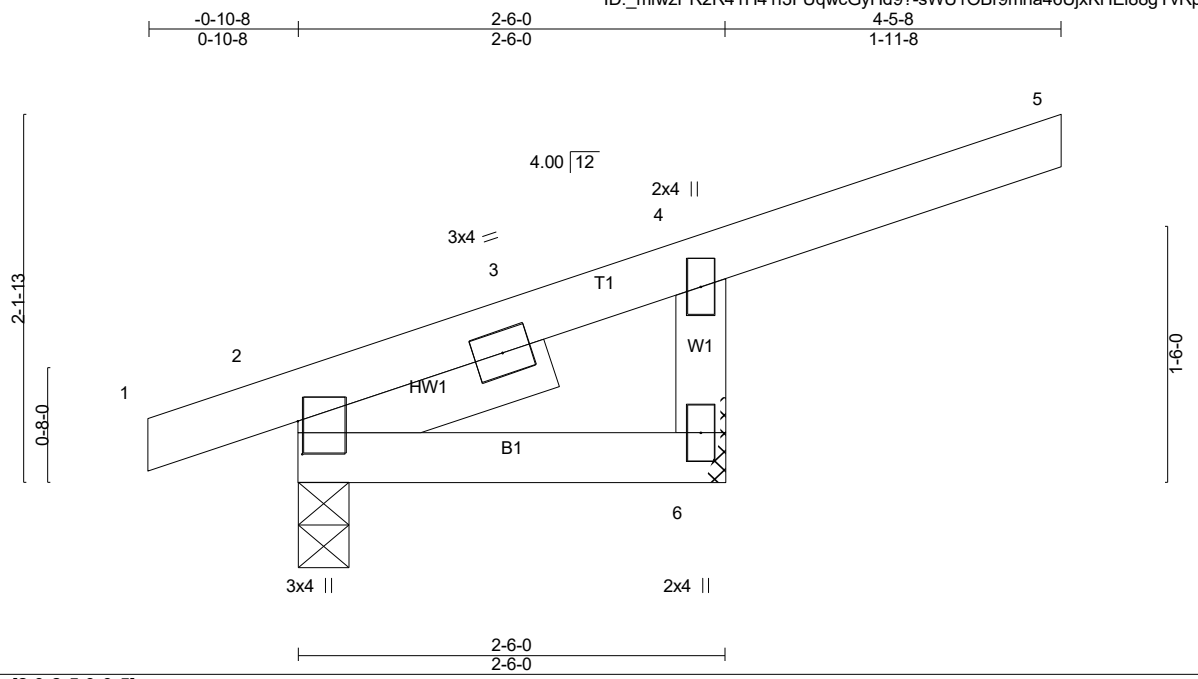


Plate Offsets (X,Y)-- [2:0-2-5,0-0-5]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.50 | Vert(LL) | -0.00 | 2-6 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(CT) | -0.00 | 2-6 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | Weight: 16 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -° 1-6-7

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 6=267/Mechanical, 2=100/0-3-8 (min. 0-1-8)
Max Horz 2=47(LC 14)
Max Uplift 6=-72(LC 11), 2=-6(LC 10)
Max Grav 6=378(LC 21), 2=135(LC 21)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-6=-354/217

**NOTES-** (9)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 6 and 6 lb uplift at joint 2.

**LOAD CASE(S)** Standard


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R27 | Monopitch | 6 | 1 | Job Reference (optional) **# 48049** |

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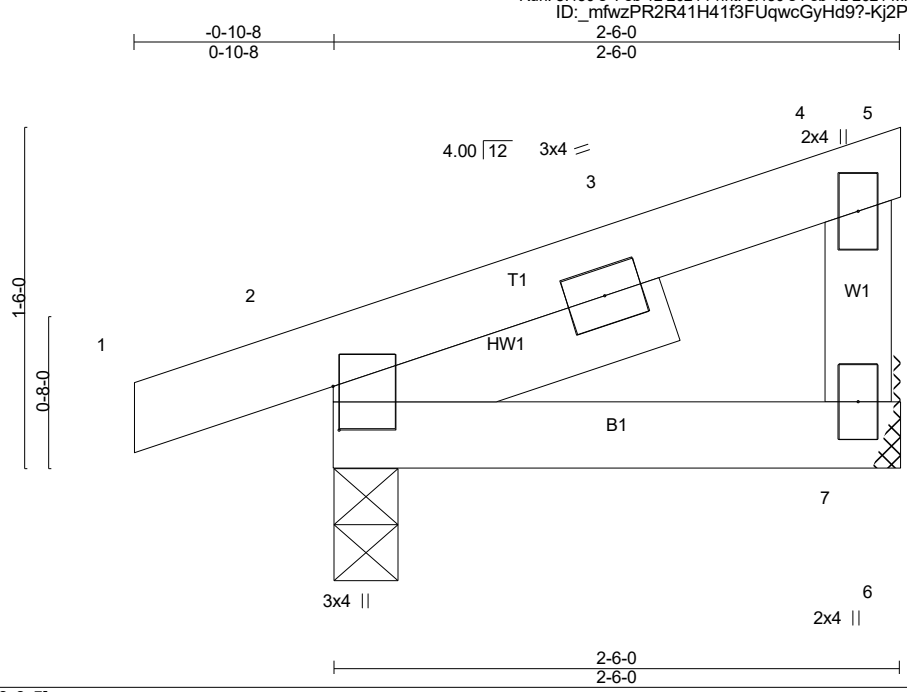


Plate Offsets (X,Y)-- [2:0-2-5,0-0-5]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.09 | Vert(LL) | -0.00 | 2-7 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(CT) | -0.00 | 2-7 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | Weight: 13 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -° 1-6-7

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 7=98/Mechanical, 2=154/0-3-8 (min. 0-1-8)
Max Horz 2=32(LC 14)
Max Uplift 7=-16(LC 14), 2=-29(LC 10)
Max Grav 7=125(LC 21), 2=204(LC 21)

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

**NOTES-** (9)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 7 and 29 lb uplift at joint 2.

**LOAD CASE(S)** Standard


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R28 | Hip Girder | 1 | 2 | Job Reference (optional) **# 48049** |

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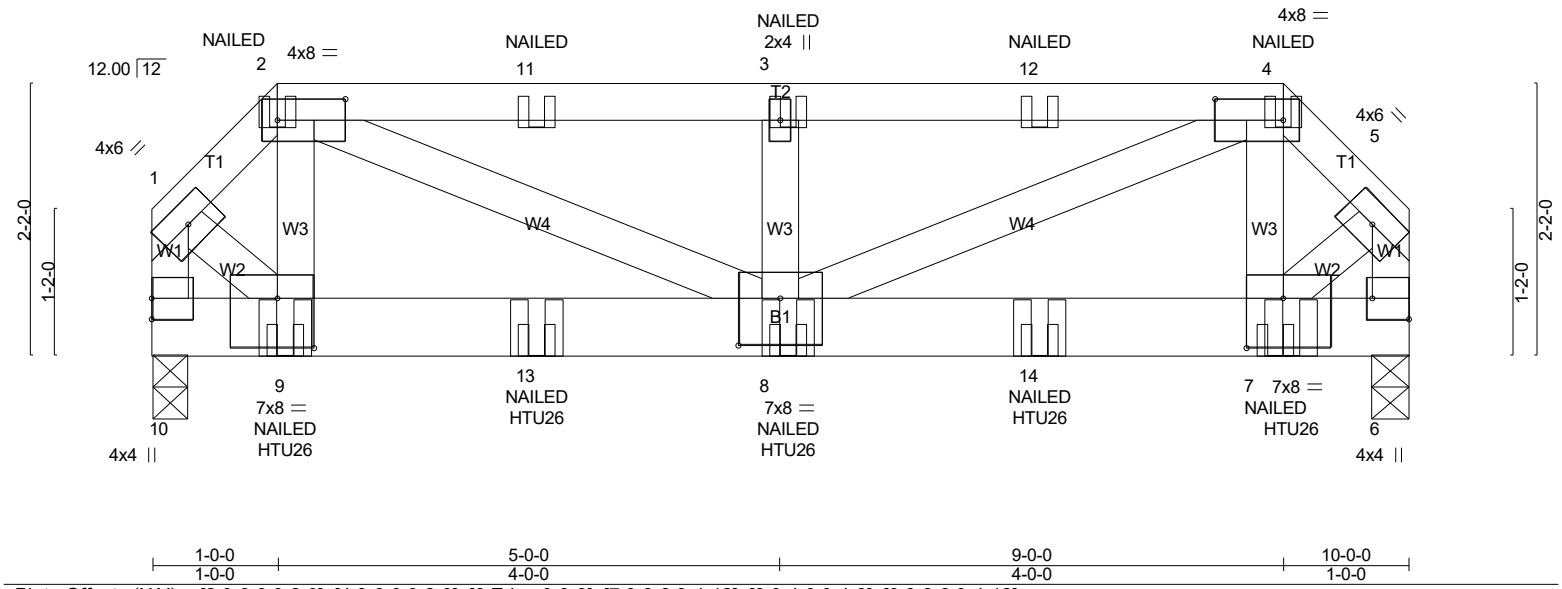



Plate Offsets (X,Y)-- [2:0-6-8,0-2-0], [4:0-6-8,0-2-0], [6:Edge,0-3-8], [7:0-3-8,0-4-12], [8:0-4-0,0-4-8], [9:0-3-8,0-4-12]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.32 | Vert(LL) | -0.04 | 8 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.74 | Vert(CT) | -0.09 | 8-9 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.68 | Horz(CT) | 0.01 | 6 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2021/TPI2014 | Matrix-SH | | | | | | | Weight: 125 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

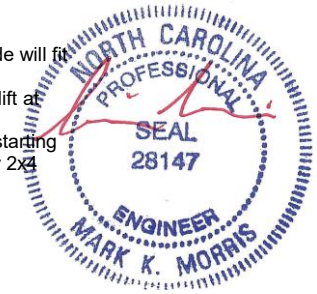
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-2-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 10=3729/0-3-8 (min. 0-2-3), 6=3765/0-3-8 (min. 0-2-4)
Max Horz 10=16(LC 7)
Max Uplift10=-201(LC 7), 6=-188(LC 6)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3276/176, 2-11=-5348/311, 3-11=-5347/311, 3-12=-5347/311, 4-12=-5348/311, 4-5=-3309/169, 1-10=-4274/221, 5-6=-4317/212
BOT CHORD 9-13=-135/2363, 8-13=-135/2363, 8-14=-119/2388, 7-14=-119/2388
WEBS 2-9=-7/806, 2-8=-204/3262, 4-8=-211/3234, 4-7=0/833, 1-9=-166/2931, 5-7=-159/2961

**NOTES-** (13)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 3-8 2x4 - 1 row at 0-5-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 201 lb uplift at joint 10 and 188 lb uplift at joint 6.
10) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-0-12 from the left end to 9-0-12 to connect truss(es) R16 (1 ply 2x4 SP), R17 (1 ply 2x4 SP), R18 (1 ply 2x4 SP), R19 (1 ply 2x4 SP), R32 (1 ply 2x4 SP) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

**LOAD CASE(S)** Standard

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Continued on page 2

**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.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-2=-60, 2-4=-60, 4-5=-60, 6-10=-20
   Concentrated Loads (lb)
      Vert: 9=-1344(F=-1, B=-1343) 8=-1343(B) 7=-1345(F=-1, B=-1345) 13=-1343(B) 14=-1343(B)


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R29 | Common Supported Gable | 1 | 1 | **# 48049** Job Reference (optional) |

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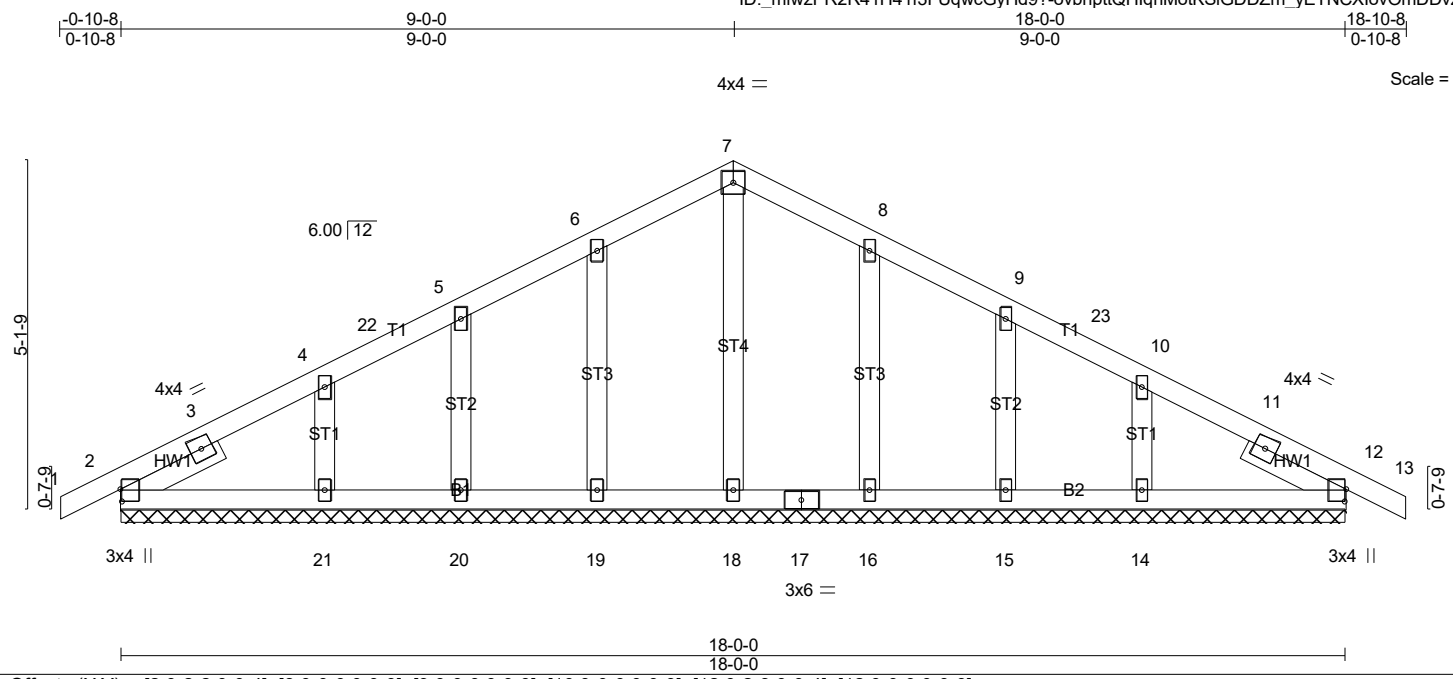


18-0-0
18-0-0

Plate Offsets (X,Y)-- [2:0-2-2,0-0-4], [8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0], [12:0-2-3,0-0-4], [12:0-0-0,0-0-0]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.08 | Vert(LL) | 0.00 | 12 | n/r | 180 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.11 | Vert(CT) | 0.00 | 13 | n/r | 80 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.07 | Horz(CT) | 0.00 | 12 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | | Weight: 95 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -° 1-7-3, Right 2x4 SP No.3 -° 1-7-4

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

**REACTIONS.** All bearings 18-0-0.
(lb) - Max Horz 2=60(LC 18)
Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 16, 15, 14, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 18, 19, 20, 21, 16, 15, 14, 12

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

**NOTES-** (13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-11-2, Corner(3R) 3-11-2 to 14-0-14, Corner(3E) 14-0-14 to 18-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 20, 21, 16, 15, 14, 12.

**LOAD CASE(S)** Standard


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| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R30 | Common | 1 | 1 | **# 48049** |
| | | | | | Job Reference (optional) |

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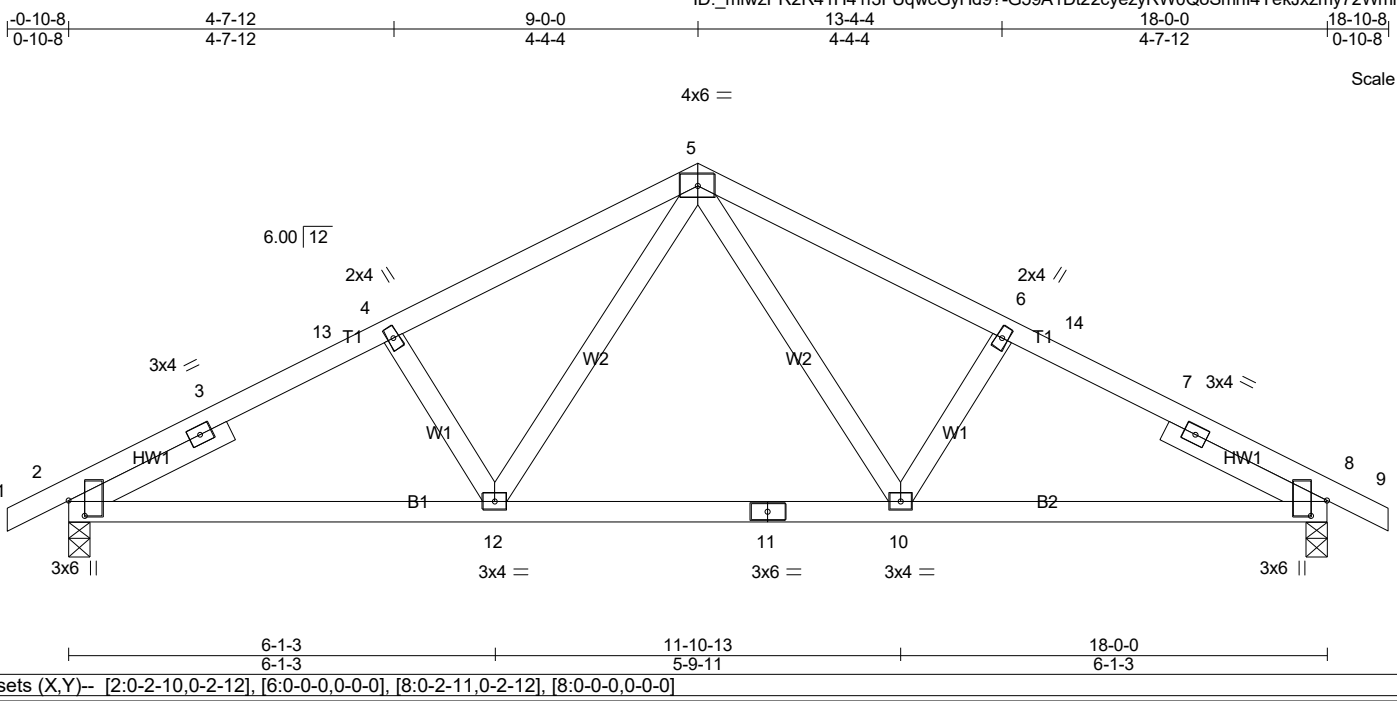



Plate Offsets (X,Y)-- [2:0-2-10,0-2-12], [6:0-0-0,0-0-0], [8:0-2-11,0-2-12], [8:0-0-0,0-0-0]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.41 | Vert(LL) | -0.03 | 10-12 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.39 | Vert(CT) | -0.07 | 10-12 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.18 | Horz(CT) | 0.03 | 8 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | | Weight: 92 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -° 2-6-6, Right 2x4 SP No.3 -° 2-6-6

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-9-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

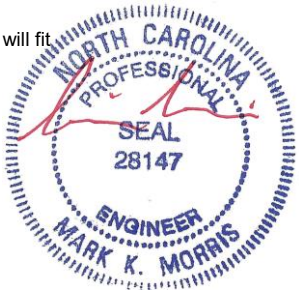
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=773/0-3-8 (min. 0-1-8), 8=772/0-3-8 (min. 0-1-8)
Max Horz 2=60(LC 18)
Max Uplift2=-50(LC 14), 8=-50(LC 15)
Max Grav 2=820(LC 21), 8=820(LC 22)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1248/195, 3-13=-1147/213, 4-13=-1138/216, 4-5=-1098/227, 5-6=-1098/227, 6-14=-1138/216, 7-14=-1147/213, 7-8=-1248/195
BOT CHORD 2-12=-129/1048, 11-12=-40/674, 10-11=-40/674, 8-10=-129/1047
WEBS 4-12=-299/122, 5-12=-53/434, 5-10=-53/434, 6-10=-299/122

**NOTES-** (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Exterior(2R) 3-11-2 to 14-0-14, Exterior(2E) 14-0-14 to 18-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.

**LOAD CASE(S)** Standard

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| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R30A | COMMON | 6 | 1 | # 48049 |
| | | | | | Job Reference (optional) |

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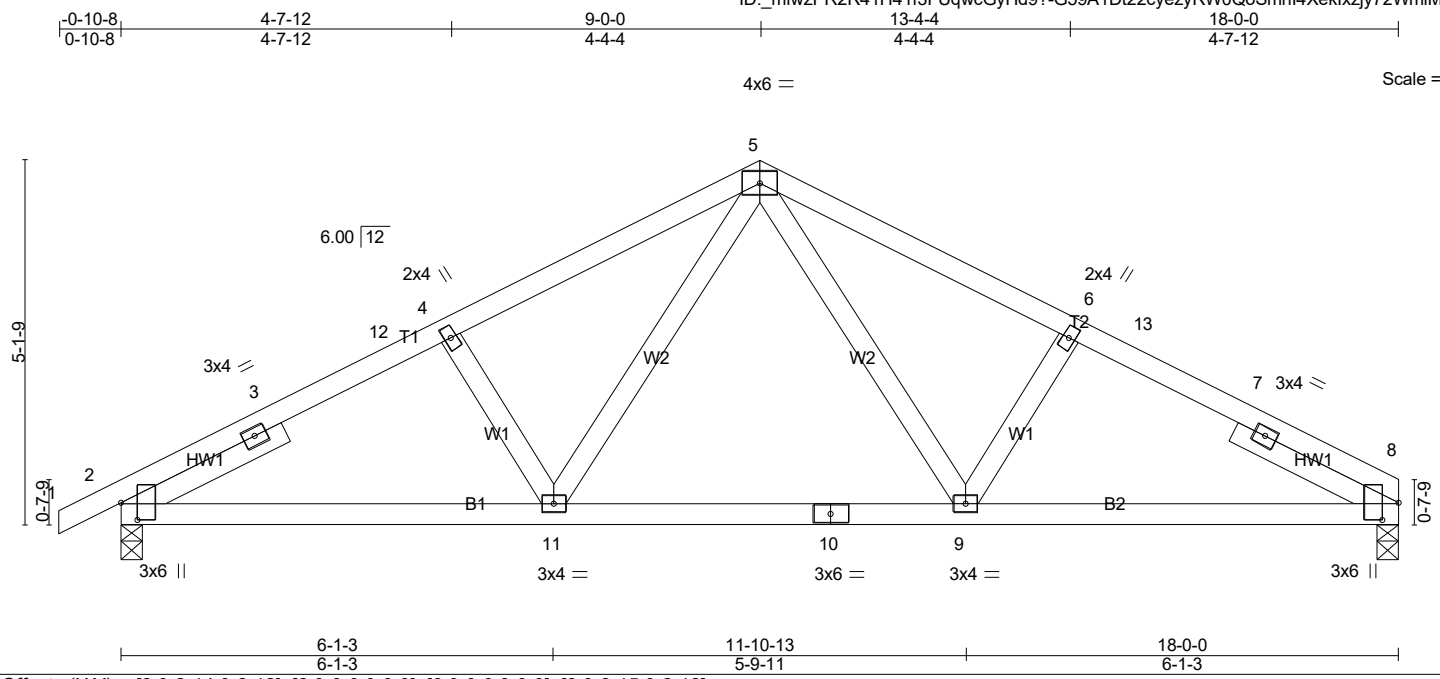



Plate Offsets (X,Y)-- [2:0-2-14,0-2-12], [2:0-0-0,0-0-0], [6:0-0-0,0-0-0], [8:0-2-15,0-2-12]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.41 | Vert(LL) | -0.03 | 9-11 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.39 | Vert(CT) | -0.07 | 9-11 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.18 | Horz(CT) | 0.03 | 8 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | | Weight: 90 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -° 2-6-6, Right 2x4 SP No.3 -° 2-6-6

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-9-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

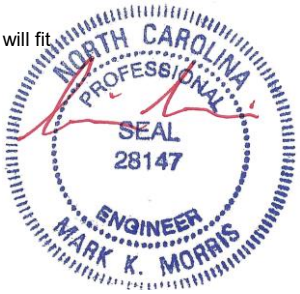
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 8=719/0-3-8 (min. 0-1-8), 2=774/0-3-8 (min. 0-1-8)
Max Horz 2=61(LC 18)
Max Uplift8=-37(LC 15), 2=-50(LC 14)
Max Grav 8=766(LC 22), 2=821(LC 21)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1249/196, 3-12=-1149/213, 4-12=-1140/216, 4-5=-1100/227, 5-6=-1104/228, 6-13=-1144/217, 7-13=-1154/214, 7-8=-1257/203
BOT CHORD 2-11=-136/1049, 10-11=-47/676, 9-10=-47/676, 8-9=-137/1055
WEBS 4-11=-299/122, 5-11=-53/434, 5-9=-55/440, 6-9=-303/122

**NOTES-** (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Exterior(2R) 3-11-2 to 13-5-3, Exterior(2E) 13-5-3 to 18-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.

**LOAD CASE(S)** Standard




5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R31 | Half Hip | 1 | 1 | Job Reference (optional) **# 48049** |

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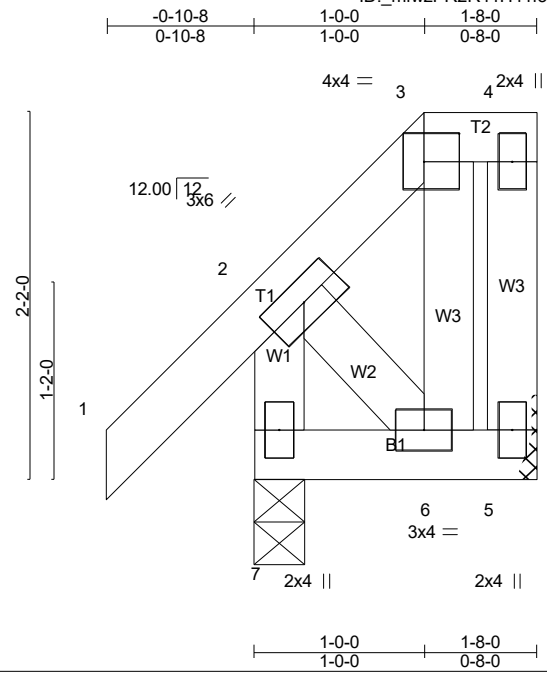


Scale = 1:13.6

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

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | 0.00 | 7 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | -0.00 | 7 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | -0.00 | 5 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | | Weight: 15 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 1-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 5=32/Mechanical, 7=139/0-3-8 (min. 0-1-8)
Max Horz 7=50(LC 12)
Max Uplift5=-29(LC 12)
Max Grav 5=37(LC 28), 7=167(LC 18)

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

**NOTES-** (9)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 1-6-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.

**LOAD CASE(S)** Standard


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R32 | Roof Special | 1 | 1 | # 48049 |
| | | | | | Job Reference (optional) |

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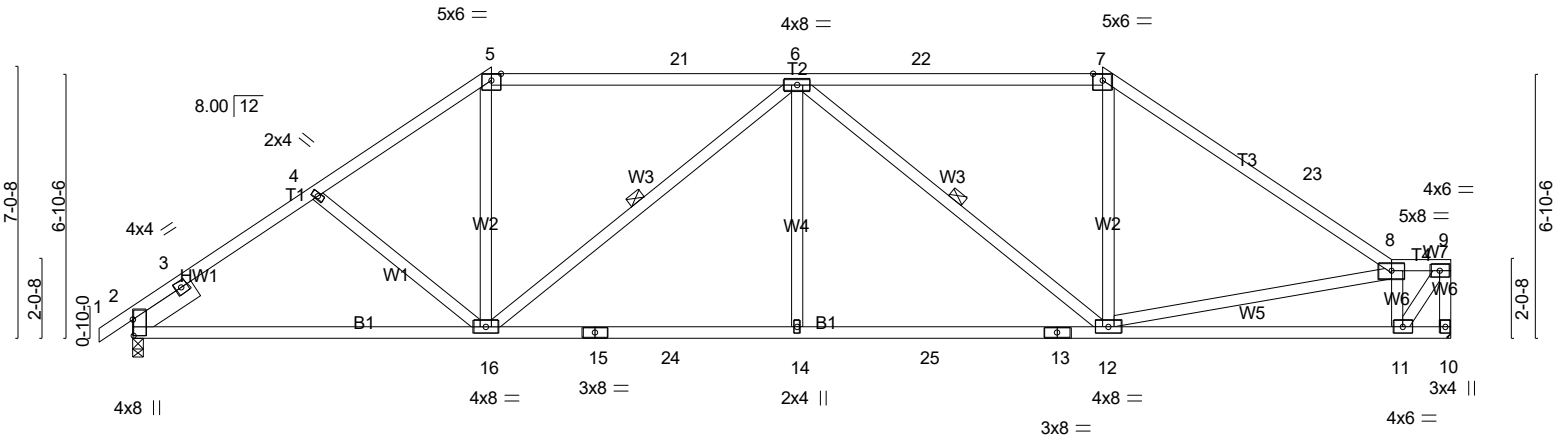
| -0-10-8 | 4-9-10 | 9-3-12 | 17-3-0 | 25-2-4 | 32-8-4 | 34-2-12 |
|---|---|---|---|---|---|---|
| 0-10-8 | 4-9-10 | 4-6-2 | 7-11-4 | 7-11-4 | 7-6-0 | 1-6-8 |

Scale = 1:59.8




| 9-3-12 | 17-3-0 | 25-2-4 | 32-8-4 | 34-2-12 |
|---|---|---|---|---|
| 9-3-12 | 7-11-4 | 7-11-4 | 7-6-0 | 1-6-8 |

Plate Offsets (X,Y)-- [2:0-5-1,0-0-4]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.77 | Vert(LL) | -0.18 | 14-16 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.93 | Vert(CT) | -0.32 | 14-16 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.73 | Horz(CT) | 0.09 | 10 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2021/TPI2014 | Matrix-AS | | | | | | | Weight: 198 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -° 1-11-0

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-16, 6-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 10=1363/Mechanical, 2=1417/0-3-8 (min. 0-1-11)
Max Horz 2=114(LC 9)
Max Uplift10=-18(LC 13), 2=-32(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-681/0, 3-4=-1893/157, 4-5=-1774/159, 5-21=-1453/165, 6-21=-1455/165, 6-22=-1435/166, 7-22=-1433/167, 7-23=-1713/144, 8-23=-1811/118, 8-9=-1045/69, 9-10=-1370/46
BOT CHORD 2-16=-103/1491, 15-16=-93/1981, 15-24=-93/1981, 14-24=-93/1981, 14-25=-93/1981, 13-25=-93/1981, 12-13=-93/1981, 11-12=-84/1156
WEBS 5-16=0/621, 6-16=-742/122, 6-14=0/520, 6-12=-779/125, 7-12=0/588, 8-12=-97/400, 8-11=-1335/181, 9-11=-121/1759

**NOTES-** (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 4-6-2, Exterior(2R) 4-6-2 to 14-1-6, Interior(1) 14-1-6 to 20-4-10, Exterior(2R) 20-4-10 to 29-11-14, Interior(1) 29-11-14 to 32-8-4, Exterior(2E) 32-8-4 to 34-1-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 2.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.


5/2/2024

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R33 | HALF HIP GIRDER | 1 | 2 | Job Reference (optional) **# 48049** |

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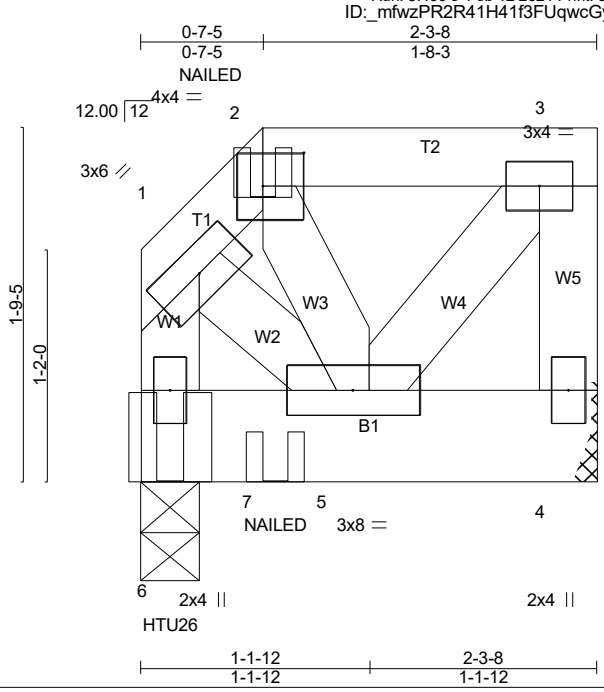


Scale = 1:11.6

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.02 | Vert(LL) | -0.00 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.00 | Vert(CT) | -0.00 | 5 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.00 | Horz(CT) | -0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | Weight: 34 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 4=74/Mechanical, 6=1461/0-3-8 (min. 0-1-8)
Max Horz 6=14(LC 10)
Max Uplift4=-20(LC 7), 6=-64(LC 7)

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

**NOTES-** (13)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 6.
10) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 0-1-12 from the left end to connect truss(es) R05 (1 ply 2x4 SP) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 2=26(F) 6=-1401(B)


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| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R35 | Monopitch | 5 | 1 | Job Reference (optional) **# 48049** |

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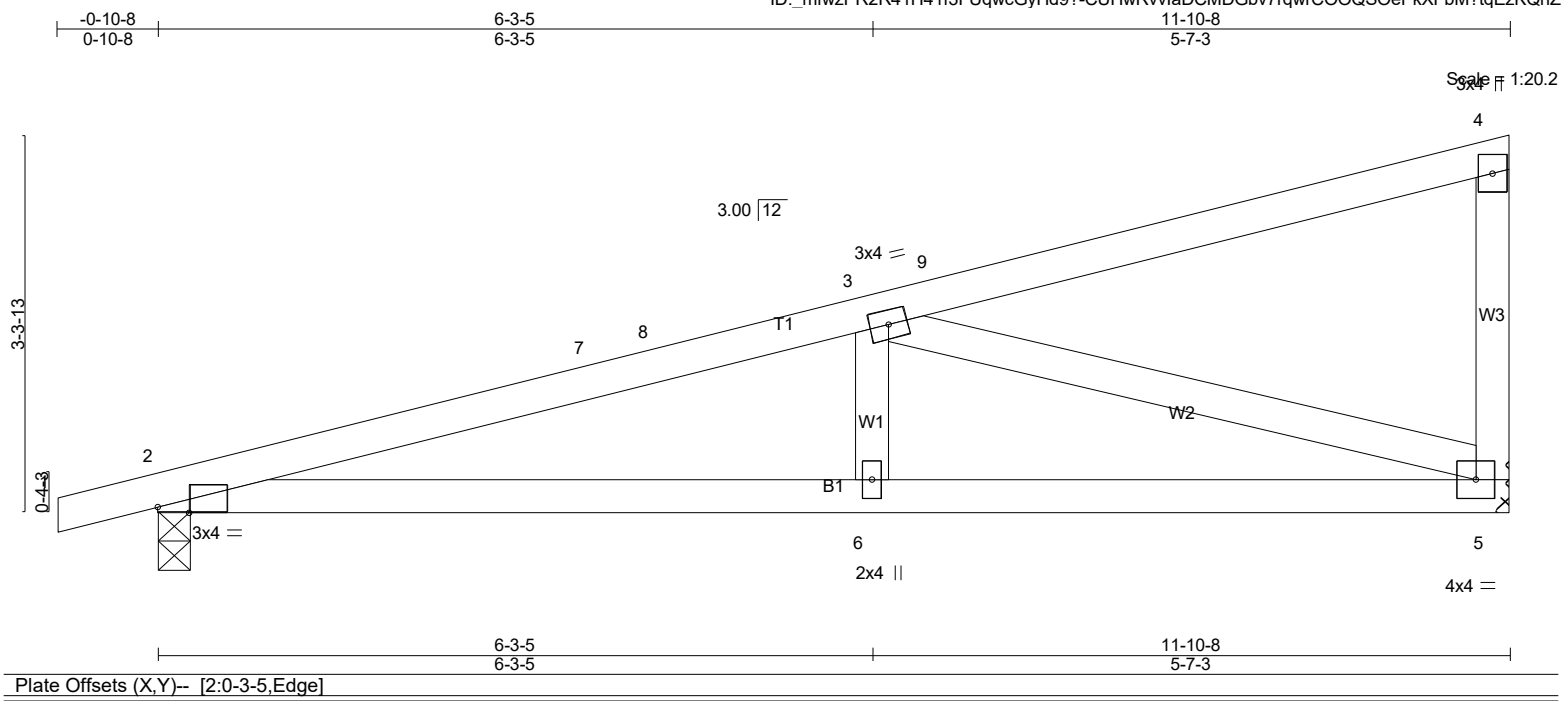


Plate Offsets (X,Y)-- [2:0-3-5,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.52 | Vert(LL) | -0.06 | 2-6 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.52 | Vert(CT) | -0.12 | 2-6 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.74 | Horz(CT) | 0.02 | 5 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | | Weight: 51 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-8-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 5=461/Mechanical, 2=527/0-3-8 (min. 0-1-8)
Max Horz 2=90(LC 10)
Max Uplift 5=-57(LC 14), 2=-65(LC 10)
Max Grav 5=578(LC 21), 2=581(LC 21)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-1259/123, 7-8=-1201/126, 3-8=-1167/132
BOT CHORD 2-6=-196/1177, 5-6=-196/1177
WEBS 3-6=0/265, 3-5=-1192/198

**NOTES-** (9-12)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 6-11-2, Exterior(2E) 6-11-2 to 11-8-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
9) 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.
10) 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.
11) 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.
12) 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.


5/2/2024

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | R35A | Monopitch Structural Gable | 1 | 1 | Job Reference (optional) **# 48049** |

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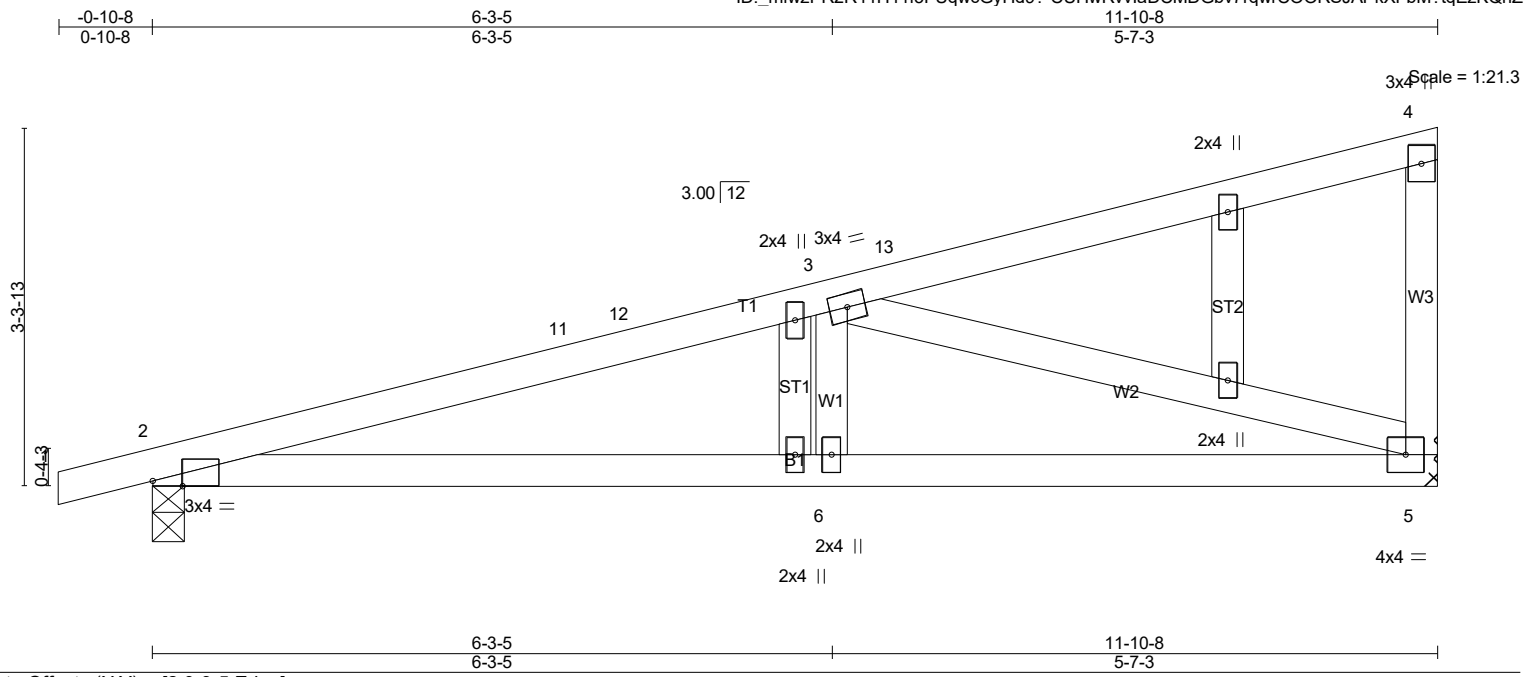


Plate Offsets (X,Y)-- [2:0-3-5,Edge]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.51 | Vert(LL) | -0.06 | 2-6 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.87 | Vert(CT) | -0.13 | 2-6 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.74 | Horz(CT) | 0.02 | 5 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | | Weight: 56 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 5=461/Mechanical, 2=527/0-3-8 (min. 0-1-8)
Max Horz 2=90(LC 10)
Max Uplift 5=-57(LC 14), 2=-65(LC 10)
Max Grav 5=578(LC 21), 2=581(LC 21)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-1259/123, 11-12=-1201/126, 3-12=-1167/132
BOT CHORD 2-6=-196/1177, 5-6=-196/1177
WEBS 3-6=0/264, 3-5=-1192/198

**NOTES-** (11-14)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 6-11-2, Exterior(2E) 6-11-2 to 11-8-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.


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Continued on page 2

**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.

11) 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.
12) 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.
13) 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.
14) 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


5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | VT01 | Valley | 1 | 1 | **# 48049** Job Reference (optional) |

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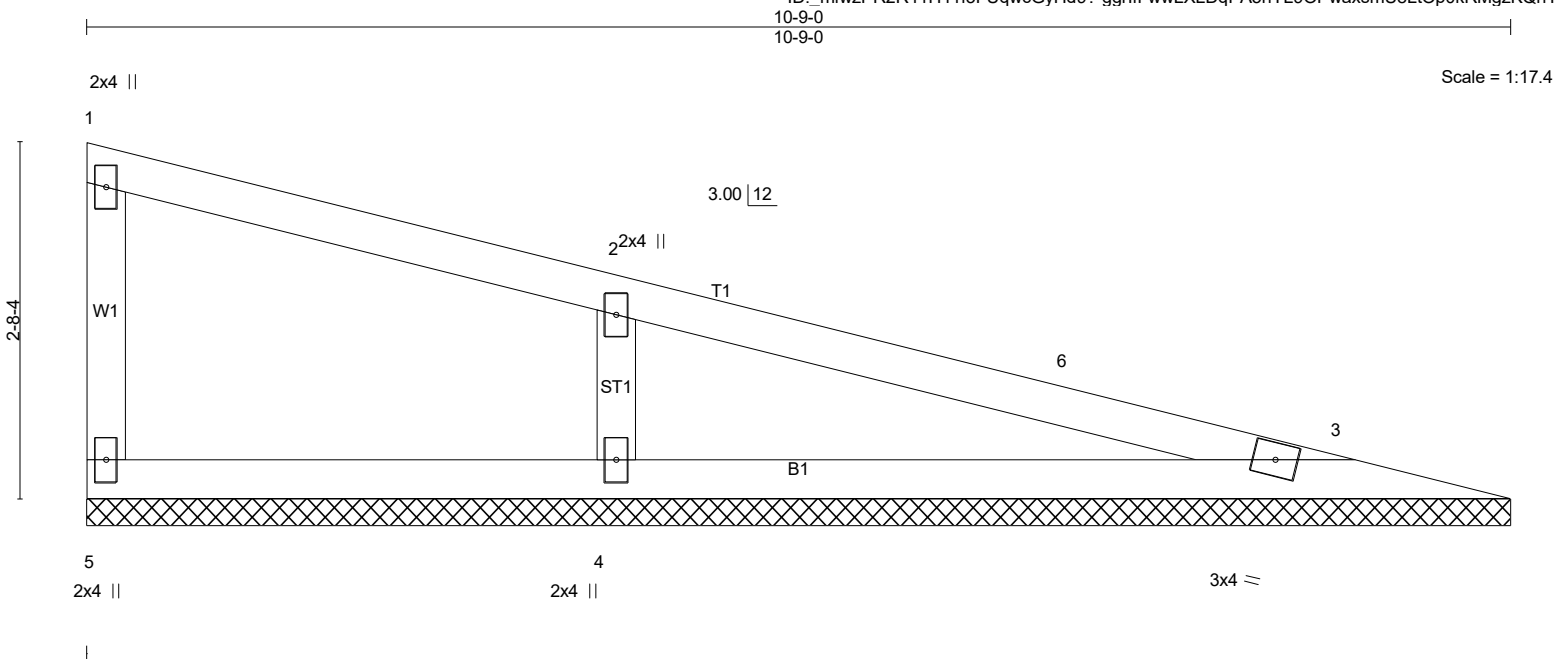



| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.47 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.42 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.09 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-SH | | | | | | | Weight: 35 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

**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.

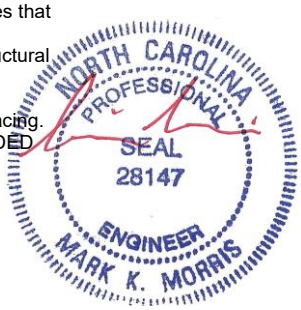
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 5=93/10-9-0 (min. 0-1-8), 3=180/10-9-0 (min. 0-1-8), 4=480/10-9-0 (min. 0-1-8)
Max Horz 5=-66(LC 11)
Max Uplift5=-12(LC 11), 3=-6(LC 11), 4=-58(LC 11)
Max Grav 5=125(LC 21), 3=196(LC 21), 4=604(LC 21)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-461/160

**NOTES-** (8-11)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
8) 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.
9) 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.
10) 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.
11) 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



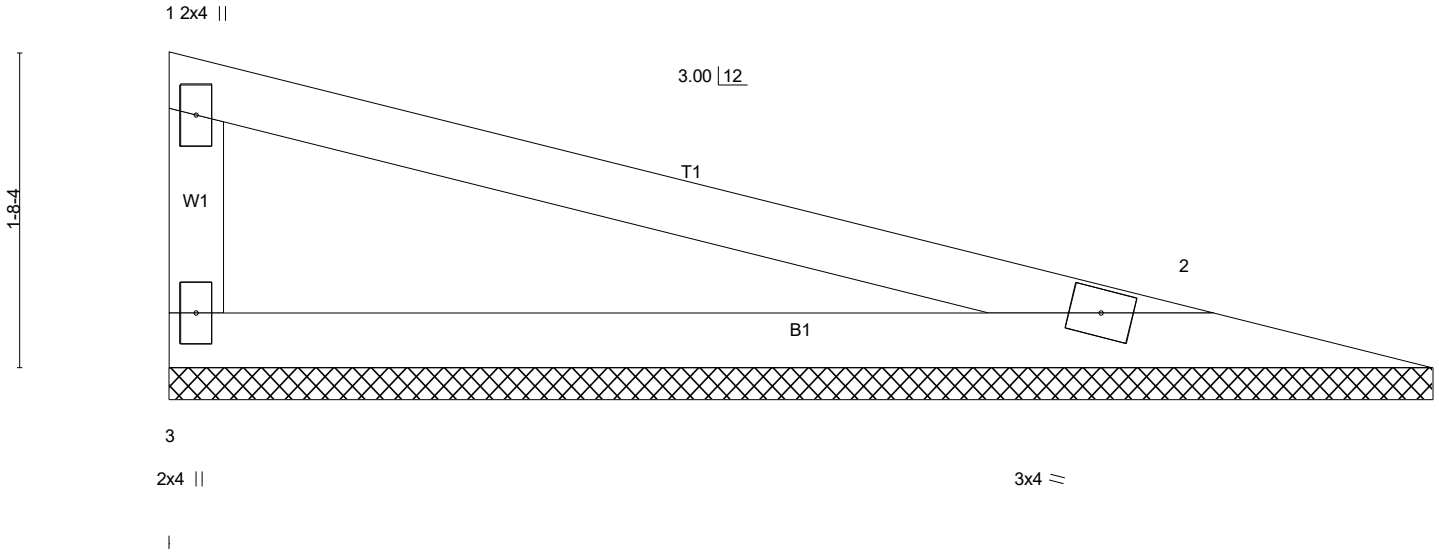

5/2/2024

| Job | Truss | Truss Type | Qty | Ply | LOT 0.0025 HONEYCUTT HILLS \| 417 ADAMS POINTE COURT ANGIER, NC |
|---|---|---|---|---|---|
| 24-3417-R01 | VT02 | Valley | 1 | 1 | # 48049 |
| | | | | | Job Reference (optional) |

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu May 2 21:34:19 2024 Page 1
ID:_mfwzPR2R41H41f3FUqwcGyHd9?-ggrIfFwwLXLDqPA5hYL9OPwVZsjG8MJOp0kRMgzKQnY

6-9-0
6-9-0

Scale = 1:12.3




| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.81 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.63 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | Weight: 20 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 3=217/6-9-0 (min. 0-1-8), 2=217/6-9-0 (min. 0-1-8)
Max Horz 3=-38(LC 11)
Max Uplift3=-27(LC 11), 2=-17(LC 11)
Max Grav 3=281(LC 21), 2=281(LC 21)

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

**NOTES-** (8-11)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
8) 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.
9) 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.
10) 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.
11) 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.

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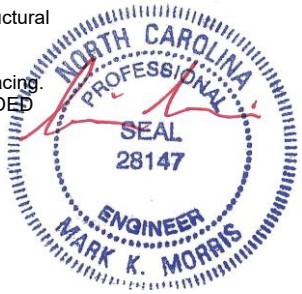


5/2/2024