

RE: 2233821 - H&H/Cardinal/ Site Information: Project Customer: h and h Project Name: 2233821 Lot/Block: Subdivision: Model: Address: City: State: nc General Truss Engineering Criteria & Design Loads (Individual Truss Design **Drawings Show Special Loading Conditions):** Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.2 Wind Code: N/A Wind Speed: 150 mph Design Method: User defined Roof Load: 40.0 psf Floor Load: N/A psf Mean Roof Height (feet): 25 Exposure Category: C No. Seal# Truss Name Date No. Seal# Truss Name Date 2/13/20 2/13/20 2/13/20 2/13/20 35 36 37 38 A01 A02 140248491 140248525 2/13/20 2/13/20 123456789111234 140248526 140248492 C04 C05 C06 C07 C08 140248493 140248527 A02A 2/13/20 140248528 140248494 A03 2/13/20 140248495 39 40 A04 140248529 13/202/13/ 20 140248496 140248530 13/20ČP01 CP02 140248497 140248531 A06 41 13/20 140248498 A07 13/20 140248532 140248499 43 A08 G01 2/13/20 2/13/20 140248500 A09 13/2044 140248534 Ğ02 45 46 47 140248501 A10 140248535 G03 2/13/20 2/13/20 140248502 A11 140248536 Ğ04 13/20 140248503 140248537 A11A **G**05 2/13/20 2/13/20 140248504 A12 48 140248538 Ğ06 /13/20 49 50 140248505 140248539 A13 M01 2/13/20 16 17 18 19 20 21 22 23 140248540 M02 2/13/20 140248507 A15 140248541 M03 2/13/20 140248508 A16 13/20 V01 140248509 A17 2/13/20 140248543 A18 B01 B02 140248510 /13/20 140248544 140248511 140248545 V04 2/13/20 140248512 140248513 13/20140248546 140248547 B03 V06 2/13/20 140248514 140248548 V07 25 26 27 28 29 30 31 32 B05 140248549 V08 /13/20 140248516 B06 13/20 140248550 61 140248517 **B07** 13/20 62 63 64 65 140248518 B08 140248552 V11 B10 B11 140248553 140248519 V12 140248520 140248521 140248522 140248554 V13 13/20 B12 140248555 V14 13/2066 140248556 V15 C01 C02 140248523 67 140248557 V16 34

The truss drawing(s) referenced above have been prepared by

In use our considering and the state of North Carolina is December 31, 2020 **IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and the till shown (e.g., loads, supporte the state of the state given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Summunum Street

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Sevier, Scott

February 13,2020



Edenton, NC 27932



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) except (jt=lb) 2=537, 6=482.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Edenton, NC 27932



- reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 14-0-0 from left end, supported at two points, 5-0-0 apart.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 2=437, 6=381.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 14-0-0, Exterior(2R) 14-0-0 to 17-0-0, Interior(1) 17-0-0 to 28-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=537, 6=537.

6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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|  |   |  | 27-9-0  |  |  | 1                                  |
|--|---|--|---|--|--|------------------------------------|
| I  |   |  | 27-9-0  |  |  | 1                                  |
| Plate Offsets (X,Y)  | [6:0-3-0,0-1-12], [11:0-3-0,0-1-12], [15:0  | -0-0,0-1-1], [15:0-2-9,0-4-2                             | 2]  |  |  |                                    |
| LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014 | <b>CSI.</b><br>TC 0.10<br>BC 0.04<br>WB 0.07<br>Matrix-S | DEFL.         in           Vert(LL)         -0.00           Vert(CT)         0.00           Horz(CT)         0.01 | n (loc) l/defl L/d<br>1 n/r 120<br>1 n/r 120<br>15 n/a n/a                     | PLATES<br>MT20<br>Weight: 182 lb   | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER-<br>TOP CHORD 2x4 SF<br>BOT CHORD 2x6 SF<br>OTHERS 2x4 SF   | 9 No.2<br>9 No.2<br>9 No.3  | I  | BRACING-<br>TOP CHORD<br>BOT CHORD  | Structural wood sheath<br>2-0-0 oc purlins (6-0-0<br>Rigid ceiling directly ap | hing directly applied or 6-0-0 oc<br>max.): 6-11.<br>plied or 10-0-0 oc bracing. | purlins, except                    |

2X4 SP NO.3 WEDGE Right: 2x4 SP No.3

#### REACTIONS. All bearings 27-9-0. Max Horz 2=248(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 23, 25, 21, 19 except 24=-104(LC

- 8), 26=-147(LC 12), 27=-115(LC 12), 28=-215(LC 12), 20=-105(LC 9), 18=-146(LC 13), 17=-115(LC 13), 16=-223(LC 13)
- Max Grav All reactions 250 lb or less at joint(s) 2, 23, 24, 25, 26, 27, 21, 20, 19, 18, 17, 15 except 28=286(LC 19), 16=281(LC 20)

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

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 8-10-8, Corner(3R) 8-10-8 to 11-10-8 , Exterior(2N) 11-10-8 to 19-1-8, Corner(3R) 19-1-8 to 22-1-8, Exterior(2N) 22-1-8 to 27-9-0 zone; cantilever left and right exposed; end vertical left and right exposed; 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 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.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 9) 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) 2, 23, 25, 21, 19 except (jt=lb) 24=104, 26=147, 27=115, 28=215, 20=105, 18=146, 17=115, 16=223.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Edenton, NC 27932

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|  | <u>14-0-0</u><br>14-0-0  |  |  |  | 27-9-0<br>13-9-0  |   |                                    |
|--|--|--|--|--|---|---|------------------------------------|
| Plate Offsets (X,Y)  | [2:0-0-0,0-1-3], [4:0-4-13,Edge], [5:0-4-1   | 3,Edge], [7:Edge,0-1-10],                                | [7:0-0-15,0-5-10], [7:0-0  | )-7,0-0-13], [8:0-   | 5-0,0-4-8]  |   |                                    |
| LOADING(psf)TCLL20.0TCDL10.0BCLL0.0*BCDL   | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014            | <b>CSI.</b><br>TC 0.67<br>BC 0.94<br>WB 0.16<br>Matrix-S | DEFL.         in           Vert(LL)         -0.22           Vert(CT)         -0.47           Horz(CT)         0.04           Wind(LL)         0.13 | (loc) l/defl<br>7-8 >999<br>7-8 >696<br>7 n/a<br>2-8 >999                  | L/d<br>360<br>240<br>n/a<br>240                                 | <b>PLATES</b><br>MT20<br>Weight: 158 lb                             | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER-<br>TOP CHORD 2x4 \$<br>BOT CHORD 2x6 \$<br>WEBS 2x4 \$<br>WEDGE<br>Right: 2x4 \$P No.3 | P No.2<br>P No.2<br>P No.3   |  | BRACING-<br>TOP CHORD<br>BOT CHORD<br>WEBS   | Structural wood<br>2-0-0 oc purlins<br>Rigid ceiling dii<br>1 Row at midpt | d sheathing dire<br>s (4-8-13 max.)<br>rectly applied o<br>t 3- | ectly applied or 3-2-4 c<br>: 4-5.<br>r 2-2-0 oc bracing.<br>8, 6-8 | c purlins, except                  |
| REACTIONS. (Ib/si<br>Max<br>Max  | ze) 2=1166/0-5-8, 7=1097/Mechanical<br>Horz 2=311(LC 9)<br>Uplift 2=-508(LC 12), 7=-452(LC 13) |  |  |  |   |   |                                    |

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

- TOP CHORD 2-3=-1637/684, 3-4=-1276/495, 4-5=-1157/495, 5-6=-1276/504, 6-7=-1612/690
- BOT CHORD 2-8=-623/1305, 7-8=-431/1301
- WEBS 4-8=-123/408, 5-8=-127/406, 3-8=-438/480, 6-8=-439/495

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-5-6, Exterior(2R) 11-5-6 to 15-8-5, Interior(1) 15-8-5 to 16-6-10, Exterior(2R) 16-6-10 to 20-9-9, Interior(1) 20-9-9 to 27-8-4 zone; cantilever left exposed; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 2=508, 7=452.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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|  | 14-0-0   |   |   |                                      |  |  | 28-0-0  |   |                                    |
|--|--|---|---|--------------------------------------|--|--|---|---|------------------------------------|
| Plate Offsets (X,Y)  | [2:Edge,0-1-3], [4:0-4-13,Edge], [5:0-4-1  | 3,Edge], [7:0-0-0,0-1-3], [8:0-5-                 | -0,0-4-8]   |                                      |  |  | 14-0-0  |   |                                    |
| LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014              | CSI.<br>TC 0.77<br>BC 0.97<br>WB 0.17<br>Matrix-S | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>Wind(LL) | in<br>-0.25<br>-0.52<br>0.04<br>0.13 | (loc)<br>7-8<br>7-8<br>7<br>2-8        | l/defl<br>>999<br>>641<br>n/a<br>>999            | L/d<br>360<br>240<br>n/a<br>240                       | PLATES<br>MT20<br>Weight: 159 lb                                    | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER-<br>TOP CHORD 2x4 SP<br>BOT CHORD 2x6 SP<br>WEBS 2x4 SP<br>REACTIONS. (lb/size<br>Max H<br>Max U                              | No.2<br>No.2<br>No.3<br>e) 7=1107/Mechanical, 2=1176/0-5-8<br>orz 2=311(LC 11)<br>plift 7=-460(LC 13), 2=-511(LC 12) |   | BRACING-<br>TOP CHORE<br>BOT CHORE<br>WEBS            | 0                                    | Structu<br>2-0-0 o<br>Rigid c<br>1 Row | ral wood<br>c purlins<br>eiling dire<br>at midpt | sheathing dir<br>(4-8-2 max.):<br>ctly applied c<br>3 | ectly applied or 2-2-0 c<br>4-5.<br>or 2-2-0 oc bracing.<br>-8, 6-8 | oc purlins, except                 |
| FORCES. (lb) - Max.  | Comp./Max. Ten All forces 250 (lb) or  | less except when shown.                           | 13  |                                      |  |  |   |   |                                    |

BOT CHORD 2-8=-628/1322, 7-8=-456/1353

WEBS 3-8=-437/480, 4-8=-127/417, 5-8=-131/416, 6-8=-475/518

NOTES-

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

2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-5-6, Exterior(2R) 11-5-6 to 15-8-5, Interior(1) 15-8-5 to 16-6-10, Exterior(2R) 16-6-10 to 20-9-9, Interior(1) 20-9-9 to 27-11-4 zone; cantilever left exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 7=460, 2=511.

8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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|               |          |                            |           |       |      | 28-0-0               |       |         |          |              |                           |                    |
|---------------|----------|----------------------------|-----------|-------|------|----------------------|-------|---------|----------|--------------|---------------------------|--------------------|
|               |          |                            |           |       |      | 28-0-0               |       |         |          |              |                           |                    |
| ate Offsets ( | (X,Y) [6 | 6:0-3-0,0-1-12], [11:0-3-0 | 0,0-1-12] |       |      |                      |       |         |          |              |                           |                    |
| ADING (ps     | sf)      | SPACING-                   | 2-0-0     | CSI.  |      | DEFL.                | in    | (loc)   | l/defl   | L/d          | PLATES                    | GRIP               |
| _L 20.        | 0.0      | Plate Grip DOL             | 1.15      | TC    | 0.10 | Vert(LL)             | -0.00 | 1       | n/r      | 120          | MT20                      | 244/190            |
| )L 10.        | 0.0      | Lumber DOL                 | 1.15      | BC    | 0.04 | Vert(CT)             | 0.00  | 1       | n/r      | 120          |                           |                    |
| L 0           | 0.0 *    | Rep Stress Incr            | YES       | WB    | 0.07 | Horz(CT)             | 0.01  | 15      | n/a      | n/a          |                           |                    |
| DL 10.        | 0.0      | Code IRC2018/TF            | PI2014    | Matri | ĸ-S  |                      |       |         |          |              | Weight: 183 lb            | FT = 20%           |
| IMBER-        | 2x4 SP I | No.2                       |           |       |      | BRACING-<br>TOP CHOF | 2D    | Structu | ral wood | sheathing di | rectly applied or 6-0-0 c | oc purlins, except |

BOT CHORD

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

#### REACTIONS. All bearings 28-0-0.

Max Horz 2=248(LC 9) (lb) -

2x4 SP No.3

Max Uplift All uplift 100 lb or less at joint(s) 2, 23, 25, 21, 19 except 24=-104(LC 8), 26=-147(LC 12), 27=-115(LC 12), 28=-215(LC 12), 20=-105(LC 9), 18=-147(LC 13), 17=-110(LC 13), 16=-226(LC 13) Max Grav All reactions 250 lb or less at joint(s) 15, 2, 23, 24, 25, 26, 27, 21, 20, 19, 18, 17 except 28=286(LC 19), 16=298(LC 20)

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

### NOTES-

OTHERS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 8-10-8, Corner(3R) 8-10-8 to 11-10-8 , Exterior(2N) 11-10-8 to 19-1-8, Corner(3R) 19-1-8 to 22-1-8, Exterior(2N) 22-1-8 to 28-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 2, 23, 25, 21, 19
- except (jt=lb) 24=104, 26=147, 27=115, 28=215, 20=105, 18=147, 17=110, 16=226. 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) except (jt=lb) 2=558, 6=481.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-3-8 to 1-8-8, Interior(1) 1-8-8 to 14-0-0, Exterior(2R) 14-0-0 to 17-0-0, Interior(1) 17-0-0 to 27-8-4 zone; cantilever left exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions about the properties of the state of t
- reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 14-0-0 from left end, supported at two points, 5-0-0 apart.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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 2=458, 6=381.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





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|  | 14-0-0  |  | 1  |                                 | 28-                                   | 0-0                             |   |                                    |
|--|---|--|--|---------------------------------|---------------------------------------|---------------------------------|---|------------------------------------|
|  | <u>' 14-0-0</u>   |  | <u> </u>   |                                 | 14-                                   | 0-0                             |   | 1                                  |
| Plate Offsets (X,Y)  | [2:0-1-3,0-1-8], [3:0-4-0,0-3-0], [5:0-4-0,0  | <u>)-3-0], [6:0-1-3,0-1-8], [8:0-5-0,0</u>               | )-4-8]   |                                 |                                       |                                 |   |                                    |
| LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014 | <b>CSI.</b><br>TC 0.70<br>BC 0.93<br>WB 0.65<br>Matrix-S | DEFL.         in           Vert(LL)         -0.22           Vert(CT)         -0.47           Horz(CT)         0.04           Wind(LL)         0.12 | (loc)<br>2-8<br>2-8<br>6<br>2-8 | l/defl<br>>999<br>>701<br>n/a<br>>999 | L/d<br>360<br>240<br>n/a<br>240 | <b>PLATES</b><br>MT20<br>Weight: 154 lb     | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER-<br>TOP CHORD 2x4 SP<br>BOT CHORD 2x6 SP<br>WEBS 2x4 SP   | No.2<br>No.2<br>No.3  |  | BRACING-<br>TOP CHORD<br>BOT CHORD   | Structur<br>Rigid ce            | ral wood s<br>eiling direc            | sheathing dire                  | ctly applied or 3-8-13<br>2-2-0 oc bracing. | oc purlins.                        |
| REACTIONS. (Ib/size<br>Max H   | e) 2=1193/0-5-8, 6=1193/0-5-8<br>orz 2=396(LC 11)   |  |  |                                 |                                       |                                 |   |                                    |

Max Uplift 2=-558(LC 12), 6=-558(LC 13)

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

TOP CHORD 2-3=-1637/740, 3-4=-1253/584, 4-5=-1253/584, 5-6=-1637/740

BOT CHORD 2-8=-699/1468, 6-8=-452/1306

WEBS 4-8=-279/880, 5-8=-527/580, 3-8=-527/579

### NOTES-

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

2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-3-8 to 1-8-8, Interior(1) 1-8-8 to 14-0-0, Exterior(2R) 14-0-0 to 17-0-0, Interior(1) 17-0-0 to 29-3-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=558, 6=558.

6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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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) except (jt=lb) 2=561, 6=488.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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|  |  |  | 27-9-0   |   |  |
|--|--|--|--|---|--|
| Plate Offsets (X,Y)  | [7:0-3-0,0-1-12], [12:0-3-0,0-1-12], [17:0-  | 0-0,0-1-1], [17:0-2-9,0-4-2                              | 27-9-0   |   |  |
| LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0 | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014 | <b>CSI.</b><br>TC 0.14<br>BC 0.05<br>WB 0.07<br>Matrix-S | DEFL.         ir           Vert(LL)         -0.00           Vert(CT)         -0.00           Horz(CT)         0.01 | n (loc) l/defl L/d<br>) 1 n/r 120<br>) 1 n/r 120<br>17 n/a n/a                          | PLATES         GRIP           MT20         244/190           Weight: 185 lb         FT = 20% |
| LUMBER-<br>TOP CHORD 2x4 SP<br>BOT CHORD 2x6 SP<br>OTHERS 2x4 SP   | No.2<br>No.2<br>No.3   |  | BRACING-<br>TOP CHORD<br>BOT CHORD   | Structural wood sheathing of 2-0-0 oc purlins (6-0-0 max Rigid ceiling directly applied | tirectly applied or 6-0-0 oc purlins, except<br>): 7-12.<br>I or 10-0-0 oc bracing.          |

OTHERS 2x4 SP No.3 WEDGE Right: 2x4 SP No.3

#### REACTIONS. All bearings 27-9-0. Max Horz 2=269(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 26, 27, 23, 22, 21, 17 except 28=-157(LC 12),

29=-119(LC 12), 30=-200(LC 12), 20=-162(LC 13), 19=-111(LC 13), 18=-227(LC 13) All reactions 250 lb or less at joint(s) 2, 25, 26, 27, 28, 29, 23, 22, 21, 20, 19, 17 except Max Grav

30=268(LC 19), 18=282(LC 20)

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

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-3-8 to 1-8-8, Exterior(2N) 1-8-8 to 9-4-12, Corner(3R) 9-4-12 to 12-4-12, Exterior(2N) 12-4-12 to 18-7-4, Corner(3R) 18-7-4 to 21-7-4, Exterior(2N) 21-7-4 to 27-9-0 zone; cantilever left and right exposed ; end vertical left and right exposed; 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 2, 25, 26, 27, 23, 22, 21, 17 except (jt=lb) 28=157, 29=119, 30=200, 20=162, 19=111, 18=227.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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|  | <u> </u>  |   | -   |   | <u> </u>   |  |                                    |
|--|---|---|---|---|--|--|------------------------------------|
| Plate Offsets (X,Y)  | [2:0-0-0,0-1-3], [4:0-4-13,Edge], [5:0-4-1  | 3,Edge], [7:Edge,0-1-10], [7:0-0-1  | 5,0-5-10], [7:0-0   | -7,0-0-13]  | , [8:0-5-0,0-4-8]  |  |                                    |
| LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0 | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014 | CSI.         DE           TC         0.62         Ve           BC         0.94         Ve           WB         0.16         Hc           Matrix-S         Wi         Wi | EFL.         in           ert(LL)         -0.22           ert(CT)         -0.47           orz(CT)         0.04           ind(LL)         0.12 | (loc)<br>7-8<br>7-8<br>7<br>2-8                           | l/defl L/d<br>>999 360<br>>696 240<br>n/a n/a<br>>999 240                            | <b>PLATES</b><br>MT20<br>Weight: 160 lb                          | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER-<br>TOP CHORD 2x4 SF<br>BOT CHORD 2x6 SF<br>WEBS 2x4 SF<br>WEDGE<br>Right: 2x4 SP No.3  | 9 No.2<br>9 No.2<br>9 No.3  | BR<br>TO<br>WE  | ACING-<br>OP CHORD<br>OT CHORD<br>EBS   | Structura<br>except<br>2-0-0 oc<br>Rigid ceil<br>1 Row at | I wood sheathing dire<br>purlins (5-3-8 max.):<br>ing directly applied o<br>midpt 3- | ectly applied or 3-4-11<br>4-5.<br>r 2-2-0 oc bracing.<br>8, 6-8 | oc purlins,                        |
|  | a) 2 1102/0 5 0 7 1000/Machanical   |   |   |   |  |  |                                    |

# REACTIONS. (lb/size) 2=1192/0-5-8, 7=1096/Mechanical Max Horz 2=332(LC 9) Max Uplift 2=-536(LC 12), 7=-459(LC 13)

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

- TOP CHORD 2-3=-1635/695, 3-4=-1265/498, 4-5=-1114/506, 5-6=-1265/498, 6-7=-1613/705
- BOT CHORD 2-8=-642/1304, 7-8=-445/1303
- WEBS 3-8=-452/498, 4-8=-137/400, 5-8=-141/398, 6-8=-455/516

# NOTES-

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

2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-3-8 to 1-8-8, Interior(1) 1-8-8 to 11-11-9, Exterior(2E) 11-11-9 to 16-0-7, Exterior(2R) 16-0-7 to 20-3-5, Interior(1) 20-3-5 to 27-8-4 zone; cantilever left exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 2=536, 7=459.

 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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| L   | 14-0-0  |   |   |                                      |  |  | 28-0-0  |   |                                    |
|---|---|---|---|--------------------------------------|--|--|---|---|------------------------------------|
|   | 14-0-0  |   | I   |                                      |  |  | 14-0-0  |   | 1                                  |
| Plate Offsets (X,Y)   | [2:Edge,0-1-3], [4:0-4-13,Edge], [5:0-4-1   | 3,Edge], [7:0-0-0,0-1-3], [8:   | 0-5-0,0-4-8]  |                                      |  |  |   |   |                                    |
| LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0                  | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014   | <b>CSI.</b><br>TC 0.73<br>BC 0.97<br>WB 0.18<br>Matrix-S  | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>Wind(LL)         | in<br>-0.25<br>-0.52<br>0.04<br>0.12 | (loc)<br>7-8<br>7-8<br>7<br>2-8        | l/defl<br>>999<br>>641<br>n/a<br>>999            | L/d<br>360<br>240<br>n/a<br>240                           | <b>PLATES</b><br>MT20<br>Weight: 160 lb                             | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER-<br>TOP CHORD 2x4 SP<br>BOT CHORD 2x6 SP<br>WEBS 2x4 SP<br>REACTIONS. (lb/size<br>Max H<br>Max U   | No.2<br>No.2<br>No.3<br>9) 7=1106/Mechanical, 2=1202/0-5-8<br>orz 2=332(LC 11)<br>plift 7=-466(LC 13), 2=-538(LC 12)  |   | BRACING-<br>TOP CHORE<br>BOT CHORE<br>WEBS                    | )                                    | Structu<br>2-0-0 o<br>Rigid c<br>1 Row | ral wood<br>c purlins<br>eiling dire<br>at midpt | sheathing dire<br>(5-2-13 max.):<br>ctly applied oi<br>3- | ectly applied or 2-2-0 c<br>: 4-5.<br>r 2-2-0 oc bracing.<br>8, 6-8 | oc purlins, except                 |
| FORCES.         (lb) - Max.           TOP CHORD         2-3=-           BOT CHORD         2-8=-           WEBS         3-8=-                          | Comp./Max. Ten All forces 250 (lb) or  <br>1655/700, 3-4=-1285/505, 4-5=-1134/51-<br>647/1320, 7-8=-470/1354<br>450/498, 4-8=-141/409, 5-8=-145/408, 6-   | ess except when shown.<br>4, 5-6=-1286/503, 6-7=-165<br>8=-492/538  | 7/728   |                                      |  |  |   |   |                                    |
| NOTES-<br>1) Unbalanced roof live<br>2) Wind: ASCE 7-16; V<br>MWFRS (envelope)<br>Exterior(2R) 16-0-71<br>and forces & MWFR<br>3) Provide adequate dr | loads have been considered for this des<br>ult=150mph (3-second gust) Vasd=119m<br>gable end zone and C-C Exterior(2E) -1-<br>o 20-3-5, Interior(1) 20-3-5 to 27-11-4 zc<br>S for reactions shown; Lumber DOL=1.6<br>ainage to prevent water ponding. | ign.<br>ph; TCDL=6.0psf; BCDL=6<br>3-8 to 1-8-8, Interior(1) 1-8-<br>ne; cantilever left exposed<br>0 plate grip DOL=1.60 | 6.0psf; h=25ft; Ca<br>8 to 11-11-9, Ex<br>; end vertical left | at. II; E<br>terior(<br>expos        | Exp C; E<br>2E) 11-<br>sed;C-C         | nclosed;<br>11-9 to 16<br>for mem                | 3-0-7,<br>bers  |   |                                    |

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Refer to girder(s) for truss to truss connections.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=466, 2=538.

8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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|   |  |                        | 28-0-0                          |                 |                   |                           |                    |
|---|--|------------------------|---------------------------------|-----------------|-------------------|---------------------------|--------------------|
| 1   |  |                        | 28-0-0                          |                 |                   |                           | 1                  |
| Plate Offsets (X,Y)                             | [7:0-3-0,0-1-12], [12:0-3-0,0-1-12]    |                        |                                 |                 |                   |                           |                    |
| LOADING (psf)                                   | SPACING- 2-0-0<br>Plate Grip DOL 1.15  | <b>CSI.</b><br>TC 0.14 | DEFL. in                        | (loc) l/defl    | L/d<br>120        | PLATES                    | GRIP               |
| TCDL 10.0<br>BCLL 0.0 *                         | Lumber DOL 1.15<br>Rep Stress Incr YES | BC 0.05<br>WB 0.07     | Vert(CT) -0.00<br>Horz(CT) 0.01 | 1 n/r<br>17 n/a | 120<br>120<br>n/a | INT20                     | 244/190            |
| BCDL 10.0                                       | Code IRC2018/TPI2014                   | Matrix-S               |                                 |                 |                   | Weight: 186 lb            | FT = 20%           |
| LUMBER-<br>TOP CHORD 2x4 SF<br>BOT CHORD 2x6 SF | P No.2<br>P No 2                       |                        | BRACING-<br>TOP CHORD           | Structural wood | d sheathing di    | rectly applied or 6-0-0 c | oc purlins, except |

BOT CHORD

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

REACTIONS. All bearings 28-0-0.

Max Horz 2=269(LC 9) (lb) -

2x4 SP No.3

Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 26, 27, 23, 22, 21 except 28=-157(LC 12), 29=-119(LC 12), 30=-200(LC 12), 20=-163(LC 13), 19=-106(LC 13), 18=-228(LC 13) All reactions 250 lb or less at joint(s) 17, 2, 25, 26, 27, 28, 29, 23, 22, 21, 20, 19 except Max Grav 30=268(LC 19), 18=299(LC 20)

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

# NOTES-

OTHERS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-3-8 to 1-8-8, Exterior(2N) 1-8-8 to 9-4-12, Corner(3R) 9-4-12 to 12-4-12, Exterior(2N) 12-4-12 to 18-7-4, Corner(3R) 18-7-4 to 21-7-4, Exterior(2N) 21-7-4 to 28-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed: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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 2, 25, 26, 27, 23, 22. 21 except (it=lb) 28=157, 29=119, 30=200, 20=163, 19=106, 18=228,
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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| Job                   | Truss               | Truss Type                    | Qty         | Ply         | H&H/Cardinal/   |       |
|-----------------------|---------------------|-------------------------------|-------------|-------------|---|-------|
|                       |                     |                               |             |             | 14024   | 18511 |
| 2233821               | B01                 | Roof Special Structural Gable | 2           | 1           |   |       |
|                       |                     |                               |             |             | Job Reference (optional)                                      |       |
| Builders FirstSource, | Sumter, SC - 29153, |                               |             | .240 s Dec  | c 6 2019 MiTek Industries, Inc. Thu Feb 13 06:55:25 2020 Page | 2     |
|                       |                     | 11                            | ):gesddlmio | fIJcjq3nOl3 | 3r8zrBHb-X0kW60y02u8Z9xC8XWCANs4CDuvWsPVc1tf0qfzldb           | 00    |

NOTES-

10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

11) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

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- Will fit between the bottom chord and any other members.
  5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=327, 6=328.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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# Continued on page 2

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| Job                   | Truss               | Truss Type    | Qty | Ply        | H&H/Cardinal/  |          |
|-----------------------|---------------------|---------------|-----|------------|--|----------|
|                       |                     |               |     |            | 4  | 40248514 |
| 2233821               | B04                 | Common Girder | 4   | 2          |  |          |
|                       |                     |               |     | <b>_</b>   | Job Reference (optional)                                 |          |
| Builders FirstSource, | Sumter, SC - 29153, |               | 8   | .240 s Dec | 6 2019 MiTek Industries, Inc. Thu Feb 13 06:55:28 2020 P | Page 2   |

ID:qesddlmioflJcjg3nOl3r8zrBHb-xzQfk2?GLpW80PwjCemt\_Vimy60n3gB3jrtgG\_zldaz

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-3=-60, 3-5=-60, 1-5=-20

Concentrated Loads (lb)

Vert: 7=-1177(B) 9=-1077(B) 10=-1077(B) 11=-1077(B) 12=-1077(B) 13=-1177(B) 14=-1177(B) 15=-1177(B) 16=-1177(B)

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| Job                   | Truss               | Truss Type           | Qty        | Ply        | H&H/Cardinal/   |        |
|-----------------------|---------------------|----------------------|------------|------------|---|--------|
|                       |                     |                      |            |            | 140   | 248515 |
| 2233821               | B05                 | Hip Structural Gable | 2          | 1          |   |        |
|                       |                     |                      |            |            | Job Reference (optional)                                    |        |
| Builders FirstSource, | Sumter, SC - 29153, |                      | 8          | .240 s Dec | 6 2019 MiTek Industries, Inc. Thu Feb 13 06:55:29 2020 Page | ge 2   |
|                       |                     | ID:q                 | esddlmiofl | Jcjq3nOl3  | r8zrBHb-P9 1xO?u67e?eZVvmLH6XiEpLWFYoFQCyVdEoQz             | lday   |

# NOTES-

11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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- COLONNAL STREET S M //////// February 13,2020

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basing trained to day only main take contractions. This design is based only good relations and is to an individual and using component, not a truss systems. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/ITPI1** Quality Criteria, DSB-89 and BCSI Building Component **Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Edenton, NC 27932

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6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=327, 1=326.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Community -SEAL 044925 S M //////// February 13,2020

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Continued on page 2

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February 13,2020

| Job                     | Truss               | Truss Type    | Qty | Ply        | H&H/Cardinal/   |
|-------------------------|---------------------|---------------|-----|------------|---|
|                         |                     |               |     |            | 140248520   |
| 2233821                 | B11                 | Common Girder | 4   | 2          |   |
|                         |                     |               |     | <b>_</b>   | Job Reference (optional)                                      |
| Builders FirstSource, S | Sumter, SC - 29153, |               | 8   | .240 s Dec | 6 2019 MiTek Industries, Inc. Thu Feb 13 06:55:34 2020 Page 2 |

ID:gesddlmiofIJcjg3nOl3r8zrBHb-m7nw\_531wfHHkKOtYvtHEmxoVX5GTOnx6mK?Uezldat

# LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-3=-60, 3-5=-60, 1-5=-20

Concentrated Loads (lb)

Vert: 7=-1176(B) 9=-1076(B) 10=-1076(B) 11=-1076(B) 12=-1076(B) 13=-1176(B) 14=-1176(B) 15=-1176(B) 16=-1176(B)

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| Job                     | Truss               | Truss Type           | Qty        | Ply         | H&H/Cardinal/   |      |
|-------------------------|---------------------|----------------------|------------|-------------|---|------|
| 0000004                 | 540                 |                      |            |             | 140248  | 3521 |
| 2233821                 | B12                 | Hip Structural Gable | 2          | - T         | Ich Reference (ontional)                                      |      |
| Builders FirstSource, S | Sumter, SC - 29153, |                      | 8.         | 240 s Dec   | 6 2019 MiTek Industries, Inc. Thu Feb 13 06:55:36 2020 Page 2 | 2    |
|                         |                     | 10                   | D:qesddlmi | ioflJcjg3nC | DI3r8zrBHb-iVvgPn5HSGX?_eYFgJvIJB10sKeZxQyEZ4p6YWzlda         | ır   |

## NOTES-

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 16 except (jt=lb) 2=216, 17=353, 10=366.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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## Continued on page 2

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| Job                   | Truss               | Truss Type    | Qty | Ply        | H&H/Cardinal/  |           |
|-----------------------|---------------------|---------------|-----|------------|--|-----------|
|                       |                     |               |     |            |  | 140248524 |
| 2233821               | C02                 | Common Girder | 2   | 2          |  |           |
|                       |                     |               |     | <b>_</b>   | Job Reference (optional)                               |           |
| Builders FirstSource, | Sumter, SC - 29153, |               | 8   | .240 s Dec | 6 2019 MiTek Industries, Inc. Thu Feb 13 06:55:39 2020 | Page 2    |

ID:qesddlmioflJcjg3nOl3r8zrBHb-64ap2p7AlBvar5GqLSSSxpfgKYrX8lagF22m9rzldao

LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-3=-60, 3-5=-60, 1-5=-20

Concentrated Loads (lb)

Vert: 9=-1087(B) 10=-1087(B) 11=-1087(B) 12=-1087(B) 13=-1087(B)

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Edenton, NC 27932

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#### Continued on page 2

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| Job                     | Truss               | Truss Type | Qty | Ply        | H&H/Cardinal/  |           |
|-------------------------|---------------------|------------|-----|------------|--|-----------|
|                         |                     |            |     |            |  | 140248526 |
| 2233821                 | C04                 | Hip Girder | 2   | 2          |  |           |
|                         |                     |            |     | -          | Job Reference (optional)                                 |           |
| Builders FirstSource, S | Sumter, SC - 29153, |            |     | .240 s Dec | c 6 2019 MiTek Industries, Inc. Thu Feb 13 06:55:41 2020 | Page 2    |

ID:qesddlmioflJcjg3nOl3r8zrBHb-3TiZSU9QHp9l4PQDTtVw0Ek0LLU?cg6zjMXsEkzldam

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-4=-60, 1-4=-20

Concentrated Loads (lb)

Vert: 6=-1087(B) 7=-1087(B) 8=-1087(B) 9=-1087(B) 10=-1087(B)

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## Continued on page 2

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| Job                   | Truss               | Truss Type    | Qty | Ply        | H&H/Cardinal/  |          |
|-----------------------|---------------------|---------------|-----|------------|--|----------|
|                       |                     |               |     |            |  | 40248528 |
| 2233821               | C06                 | Common Girder | 2   | 2          |  |          |
|                       |                     |               |     | <b>_</b>   | Job Reference (optional)                                   |          |
| Builders FirstSource, | Sumter, SC - 29153, |               |     | .240 s Deo | c 6 2019 MiTek Industries, Inc. Thu Feb 13 06:55:43 2020 F | Page 2   |

ID:qesddlmioflJcjg3nOl3r8zrBHb-?sqKtAAgpQP?KiabalXO5fpMM9CY4YfGAg0zIczldak

LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-3=-60, 3-5=-60, 1-5=-20

Concentrated Loads (lb)

Vert: 9=-1086(B) 10=-1086(B) 11=-1086(B) 12=-1086(B) 13=-1086(B)

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#### Continued on page 2

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| Job                     | Truss               | Truss Type | Qty | Ply        | H&H/Cardinal/  |           |
|-------------------------|---------------------|------------|-----|------------|--|-----------|
|                         |                     |            |     |            |  | 140248530 |
| 2233821                 | C08                 | Hip Girder | 2   | 2          |  |           |
|                         |                     |            |     | <b>_</b>   | Job Reference (optional)                               |           |
| Builders FirstSource, S | Sumter, SC - 29153, |            | 8   | .240 s Dec | 6 2019 MiTek Industries, Inc. Thu Feb 13 06:55:45 2020 | Page 2    |

ID:qesddlmioflJcjg3nOl3r8zrBHb-xEy4lsCxL1fjZ0k\_iiZsA4vhAysxYU9Ze\_V4NVzldai

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-4=-60, 1-4=-20

Concentrated Loads (lb)

Vert: 6=-1086(B) 7=-1086(B) 8=-1086(B) 9=-1086(B) 10=-1086(B)

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818 Soundside Road

Edenton, NC 27932



| Plate Offsets (X,Y)  | [2:0-2-1.0-1-6]. [4:0-2-1.0-1-6]  |   |  |                                   |                               | 6-0-0                    |   |                                    |
|--|---|---|--|-----------------------------------|-------------------------------|--------------------------|---|------------------------------------|
| LOADING (psf)<br>TCLL 20.0<br>TCDL 10.0<br>BCLL 0.0 *<br>BCDL 10.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014 | CSI.<br>TC 0.68<br>BC 0.26<br>WB 0.11<br>Matrix-S | <b>DEFL.</b><br>Vert(LL) 0.0<br>Vert(CT) -0.0<br>Horz(CT) -0.0 | in (loc)<br>6 2-6<br>4 2-6<br>1 4 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>240<br>n/a | PLATES<br>MT20<br>Weight: 52 lb                 | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER-<br>TOP CHORD 2x4 S<br>BOT CHORD 2x6 S                      | SP No.2<br>SP No.2  |   | BRACING-<br>TOP CHORD<br>BOT CHORD                             | Structu<br>Rigid c                | ral wood<br>eiling dire       | sheathing di             | rectly applied or 5-11-<br>or 6-9-5 oc bracing. | 5 oc purlins.                      |

REACTIONS. (lb/size) 2=530/0-3-8, 4=530/0-3-8 Max Horz 2=69(LC 12) Max Uplift 2=-507(LC 8), 4=-507(LC 9)

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

TOP CHORD 2-3=-824/1245, 3-4=-824/1244

2x4 SP No.3

BOT CHORD 2-6=-1043/714, 4-6=-1043/714

WEBS 3-6=-368/290

NOTES-

WEBS

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

2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 12-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 507 lb uplift at joint 2 and 507 lb uplift at joint 4.

6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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| <b> </b>   | <u> </u>  |  | 20-0-0<br>10-0-0  |  |   |                                 |                                  |                                    |  |  |  |
|--|---|--|---|--|---|---------------------------------|----------------------------------|------------------------------------|--|--|--|
| Plate Offsets (X,Y)  | [2:0-1-8,Edge], [4:0-1-8,Edge], [6:0-5-0,   | )-4-8]   |   |  |   |                                 |                                  |                                    |  |  |  |
| LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0 | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014 | <b>CSI.</b><br>TC 0.68<br>BC 0.51<br>WB 0.18<br>Matrix-S | DEFL.<br>Vert(LL) -(<br>Vert(CT) -(<br>Horz(CT) (<br>Wind(LL) ( | in (lc<br>0.06 4<br>0.15 4<br>0.02<br>0.10 4 | bc) I/defl<br>I-6 >999<br>I-6 >999<br>4 n/a<br>I-6 >999 | L/d<br>360<br>240<br>n/a<br>240 | PLATES<br>MT20<br>Weight: 108 lb | <b>GRIP</b><br>244/190<br>FT = 20% |  |  |  |
| LUMBER-<br>TOP CHORD 2x6 SF  | P No.2  |  | BRACING-<br>TOP CHORD   | Str  | uctural wood  | sheathing di                    | rectly applied or 4-10-5         | oc purlins.                        |  |  |  |

BOT CHORD

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

TOP CHORD2x6 SP No.2BOT CHORD2x6 SP No.2WEBS2x4 SP No.3

REACTIONS. (lb/size) 2=838/0-5-8, 4=833/0-3-8 Max Horz 2=-133(LC 17)

Max Uplift 2=-400(LC 12), 4=-397(LC 13)

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

TOP CHORD 2-3=-1248/674, 3-4=-1246/674

BOT CHORD 2-6=-434/1040, 4-6=-434/1040 WEBS 3-6=0/477

NOTES-

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

2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-7-14 to 2-4-2, Interior(1) 2-4-2 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 20-7-14 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=400, 4=397.

6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

# SEAL 044925 WGINEERHERHIN February 13,2020

TREERING BY CREENCO A MITEK Attiliate 818 Soundside Road Edenton, NC 27932

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|                           |  |   |  | 2000  |   |   |   |   |   |  |
|---------------------------|--|---|--|---|---|---|---|---|---|--|
|                           |  |   |  | 20-0-0  |   |   |   |   |   |  |
| 5:0-3-0,0-2-4], [10:0-3-0 | ,0-2-4]  |   |  |   |   |   |   |   |   |  |
| SPACING-                  | 2-0-0  | CSI.  |  | DEFL.   | in  | (loc)   | l/defl  | L/d   | PLATES  | GRIP   |
| Plate Grip DOL            | 1.15   | TC  | 0.13   | Vert(LL)  | 0.00  | 13  | n/r   | 120   | MT20  | 244/190  |
| Lumber DOL                | 1.15   | BC  | 0.04   | Vert(CT)  | 0.00  | 14  | n/r   | 120   |   |  |
| Rep Stress Incr           | YES  | WB  | 0.08   | Horz(CT)  | 0.00  | 13  | n/a   | n/a   |   |  |
| Code IRC2018/T            | PI2014   | Matri   | x-S  |   |   |   |   |   | Weight: 106 lb  | FT = 20%   |
|                           |  |   |  | BRACING-  |   | Christer  | nol wood  | ah a ath in a di  |   |  |
|                           | SPACING-<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code IRC2018/TF | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014 | SPACING-       2-0-0       CSI.         Plate Grip DOL       1.15       TC         Lumber DOL       1.15       BC         Rep Stress Incr       YES       WB         Code IRC2018/TPI2014       Matrix | SPACING-       2-0-0       CSI.         Plate Grip DOL       1.15       TC       0.13         Lumber DOL       1.15       BC       0.04         Rep Stress Incr       YES       WB       0.08         Code       IRC2018/TPI2014       Matrix-S | 20-0-0           SPACING-         2-0-0           Plate Grip DOL         1.15         TC         0.13           Lumber DOL         1.15         BC         0.04           Vert(LL)         Vert(CT)         Horz(CT)           Code         IRC2018/TPI2014         Matrix-S         BRACING- | SPACING-         2-0-0           SPACING-         2-0-0           CSI.         DEFL.           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES           Code IRC2018/TPI2014         Matrix-S           BRACING-         TOP CHORD | 20-0-0           SPACING-         2-0-0           Plate Grip DOL         T.15         TC         0.13           Lumber DOL         1.15         BC         0.04         Vert(LL)         0.00         13           Code         IRC2018/TPI2014         WB         0.08         Matrix-S         BRACING- | SPACING-         2-0-0           SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES           Code IRC2018/TPI2014         WB           Matrix-S         BRACING-           TOP CHORD         13           No 2         TOP CHORD | 20-0-0         SPACING-       2-0-0         Plate Grip DOL       1.15       TC       0.13       Vert(LL)       0.00       13       n/r       120         Plate Grip DOL       1.15       BC       0.04       Vert(CT)       0.00       14       n/r       120         Rep Stress Incr       YES       WB       0.08       Horz(CT)       0.00       13       n/a       n/a         No 2       BRACING-       TOP CHORD       Structural wood sheathing di | 20-00         SPACING-       2-0-0         Plate Grip DOL       1.15       TC       0.13       Vert(LL)       0.00       13       n/r       120       MT20         Plate Grip DOL       1.15       BC       0.04       Vert(CT)       0.00       13       n/r       120       MT20         Code IRC2018/TPI2014       WB       0.08       Matrix-S       ERACING-       Weight:       106 lb |

BOT CHORD

2-0-0 oc purlins (6-0-0 max.): 5-10.

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

BOT CHORD 2x6 SP No.2 OTHERS 2x4 SP No.3

REACTIONS. All bearings 20-0-0.

Max Horz 2=-91(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 21, 22, 18, 17, 16, 13 except 23=-179(LC 12), 15=-178(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 20, 21, 22, 23, 18, 17, 16, 15, 13

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

WEBS 3-23=-159/257, 12-15=-159/256

#### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 6-4-13, Corner(3R) 6-4-13 to 9-4-13, Exterior(2N) 9-4-13 to 13-7-3, Corner(3R) 13-7-3 to 16-7-3, Exterior(2N) 16-7-3 to 20-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed: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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 2, 20, 21, 22, 18,
- 17. 16. 13 except (it=lb) 23=179. 15=178. 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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TOP CHORD

BOT CHORD

2x4 SP No.2 TOP CHORD BOT CHORD 2x6 SP No.2 2x4 SP No.3

OTHERS

Left 2x4 SP No.2 1-6-1, Right 2x4 SP No.2 1-6-1 SLIDER

REACTIONS.

All bearings 20-0-0. Max Horz 2=-141(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 14 except 21=-122(LC 12), 22=-115(LC 12), 23=-114(LC 12), 24=-139(LC 12), 19=-121(LC 13), 18=-115(LC 13), 17=-115(LC 13), 16=-128(LC 13) Max Grav All reactions 250 lb or less at joint(s) 2, 20, 21, 22, 23, 24, 19, 18, 17, 16, 14

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

#### NOTES-

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

2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-3-8 to 2-0-0, Exterior(2N) 2-0-0 to 10-0-0, Corner(3R) 10-0-0 to 13-0-0, Exterior(2N) 13-0-0 to 21-3-8 zone; cantilever left and right exposed; end vertical left and right exposed;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) All plates are 2x4 MT20 unless otherwise indicated.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 2, 14 except (it=lb) 21=122, 22=115, 23=114, 24=139, 19=121, 18=115, 17=115, 16=128.

10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



818 Soundside Road Edenton, NC 27932

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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|  | 10-0-0  |  |  |  |                                       | 20-0-0                          |                |                        |
|--|---|--|--|--|---------------------------------------|---------------------------------|----------------|------------------------|
|  | 10-0-0  |  |  |  |                                       | 10-0-0                          |                |                        |
| Plate Offsets (X,Y) [6   | 5:0-5-0,0-4-8]  |  |  |  |                                       |                                 |                |                        |
| LOADING (psf)<br>TCLL 20.0<br>TCDL 10.0<br>BCLL 0.0 *<br>BCDL 10.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr YES<br>Code JBC2018/TPI2014 | <b>CSI.</b><br>TC 0.68<br>BC 0.51<br>WB 0.18<br>Matrix-S | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>Wind(L) | in (loc)<br>-0.06 4-6<br>-0.14 4-6<br>0.02 4<br>0.10 4-6 | l/defl<br>>999<br>>999<br>n/a<br>⊳999 | L/d<br>360<br>240<br>n/a<br>240 | PLATES<br>MT20 | <b>GRIP</b><br>244/190 |

BRACING-

TOP CHORD

BOT CHORD

#### LUMBER-

TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.3 REACTIONS. (lb/size) 2=864/0-5-8, 4=858/0-3-8

Max Horz 2=-138(LC 13) Max Uplift 2=-419(LC 12), 4=-416(LC 13)

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

TOP CHORD 2-3=-1208/646, 3-4=-1206/647

BOT CHORD 2-6=-399/992, 4-6=-399/992 3-6=0/476

WEBS

#### NOTES-

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

2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-14 to 1-11-2, Interior(1) 1-11-2 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 21-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=419, 4=416.

6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

818 Soundside Road

Edenton, NC 27932

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|             | H         |                               |                 |                 |               | 20-0-0          |       |       |        |                |          |         |
|-------------|-----------|-------------------------------|-----------------|-----------------|---------------|-----------------|-------|-------|--------|----------------|----------|---------|
| Plate Offse | ets (X,Y) | [2:0-1-13,0-0-12], [6:0-3-0   | 0,0-2-4], [11:0 | )-3-0,0-2-4], [ | 15:0-1-13,0-0 | 20-0-0<br>D-12] |       |       |        |                |          |         |
| LOADING     | (psf)     | SPACING-                      | 2-0-0           | CSI.            |               | DEFL.           | in    | (loc) | l/defl | L/d            | PLATES   | GRIP    |
| TCLL        | 20.0      | Plate Grip DOL                | 1.15            | TC              | 0.15          | Vert(LL)        | -0.00 | 16    | n/r    | 120            | MT20     | 244/190 |
| TCDL        | 10.0      | Lumber DOL                    | 1.15            | BC              | 0.03          | Vert(CT)        | -0.00 | 16    | n/r    | 120            |          |         |
| BCLL        | 0.0 *     | Rep Stress Incr               | YES             | WB              | 0.07          | Horz(CT)        | 0.00  | 15    | n/a    | n/a            |          |         |
| BCDL        | 10.0      | Code IRC2018/TPI2014 Matrix-S |                 | x-S             |               |                 |       |       |        | Weight: 114 lb | FT = 20% |         |
| LUMBER-     |           |                               |                 |                 |               | BRACING-        |       |       |        |                |          |         |

#### L

Ρ

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 OTHERS 2x4 SP No.3

3x4 ||

Left 2x4 SP No.2 1-6-9, Right 2x4 SP No.2 1-6-9 SLIDER

25

TOP CHORD BOT CHORD

20

Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-11. Rigid ceiling directly applied or 10-0-0 oc bracing.

17

18

19

REACTIONS. All bearings 20-0-0.

Max Horz 2=-97(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 22, 23, 24, 20, 19, 18 except 2=-123(LC 8), 25=-174(LC 12), 15=-125(LC 9), 17=-169(LC 13) Max Grav All reactions 250 lb or less at joint(s) 2, 22, 23, 24, 25, 20, 19, 18, 15, 17

23

22

21 4x6 =

24

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

#### NOTES-

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

2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-3-8 to 1-8-8, Exterior(2N) 1-8-8 to 6-5-1, Corner(3R) 6-5-1 to 9-5-1, Exterior(2N) 9-5-1 to 13-6-15, Corner(3R) 13-6-15 to 16-6-15, Exterior(2N) 16-6-15 to 21-3-8 zone; cantilever left and right exposed ; end vertical left and right exposed: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) Provide adequate drainage to prevent water ponding.

5) All plates are 2x4 MT20 unless otherwise indicated.

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 22, 23, 24, 20, 19, 18 except (jt=lb) 2=123, 25=174, 15=125, 17=169.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



16 9-6-0

3x4 ||



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- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 5-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; 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) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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, 6 except (jt=lb) 2=108, 7=154.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



#### Plate Offsets (X,Y)--[2:0-8-5,0-1-2] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES GRIP TCLL 20.0 Plate Grip DOL 1.15 тс 0.58 Vert(LL) 0.02 2-4 >999 240 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.11 Vert(CT) -0.01 2-4 >999 240 BCLL 0.0 Rep Stress Incr YES WB 0.00 0.00 Horz(CT) n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 24 lb FT = 20% BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x6 SP No.2

REACTIONS. (lb/size) 2=253/0-3-8, 4=178/0-1-8 Max Horz 2=134(LC 8) Max Uplift 2=-250(LC 8), 4=-195(LC 8)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 3-4=-177/280

#### NOTES-

1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-9-4 zone; cantilever left exposed ; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=250, 4=195.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

## SEAL 044925 //////// February 13,2020

Structural wood sheathing directly applied or 5-0-0 oc purlins,

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

except end verticals.

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| Plate Off | sets (X,Y) | [2:0-2-13,0-0-2] |        | 1     |      |          |       |       |        |     | T             |          |
|-----------|------------|------------------|--------|-------|------|----------|-------|-------|--------|-----|---------------|----------|
|           | G (psf)    | SPACING-         | 2-0-0  | CSI.  |      | DEFL.    | in    | (loc) | l/defl | L/d | PLATES        | GRIP     |
| TCLL      | 20.0       | Plate Grip DOL   | 1.15   | TC    | 0.92 | Vert(LL) | 0.03  | 2-4   | >999   | 240 | MT20          | 244/190  |
| TCDL      | 10.0       | Lumber DOL       | 1.15   | BC    | 0.17 | Vert(CT) | -0.03 | 2-4   | >999   | 240 |               |          |
| BCLL      | 0.0 *      | Rep Stress Incr  | YES    | WB    | 0.00 | Horz(CT) | 0.00  |       | n/a    | n/a |               |          |
| BCDL      | 10.0       | Code IRC2018/TF  | PI2014 | Matri | x-P  |          |       |       |        |     | Weight: 29 lb | FT = 20% |
|           | 1_         |                  |        |       |      | BRACING  |       |       |        |     |               |          |

TOP CHORD

BOT CHORD

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x6 SP No.2

REACTIONS. (lb/size) 2=292/0-3-8, 4=219/0-1-8 Max Horz 2=157(LC 8) Max Uplift 2=-284(LC 8), 4=-239(LC 8)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 3-4=-208/343

#### NOTES-

1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-9-4 zone; cantilever left exposed ; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=284. 4=239.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 2-2-0 oc purlins,

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

except end verticals.

🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE ARXING - Verify design parameters and READ NOTES ON THIS AND INCLODED MITER REFERENCE PAGE MIT-14's rev. Towards BEFORE OSE. Design valid for use only with MiTeR's connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general quidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Qua** Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





February 13,2020

![](_page_61_Picture_2.jpeg)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

![](_page_62_Figure_0.jpeg)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designe. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

![](_page_63_Figure_0.jpeg)

MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-4 to 3-6-8, Interior(1) 3-6-8 to 5-6-8, Exterior(2R) 5-6-8 to 8-6-8, Interior(1) 8-6-8 to 10-7-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 258 lb uplift at joint 7 and 256 lb uplift at joint 6.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

![](_page_63_Picture_7.jpeg)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

![](_page_63_Picture_9.jpeg)

![](_page_64_Figure_0.jpeg)

Max Uplift 1=-77(LC 12), 3=-93(LC 13), 4=-84(LC 12)

Max Grav 1=145(LC 1), 3=151(LC 20), 4=278(LC 1)

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

#### NOTES-

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

2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed;

- MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 3-11-13, Exterior(2R) 3-11-13 to 6-11-13 , Interior(1) 6-11-13 to 7-6-7 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces
- & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 1, 93 lb uplift at joint 3 and 84 lb uplift at joint 4.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

![](_page_64_Picture_15.jpeg)

🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTPIT Quality Criteria**, **DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

![](_page_64_Picture_17.jpeg)

![](_page_65_Figure_0.jpeg)

|                      |                       | 000  |                       |                   |                     | 4 10 0               |             |        |               |            |                |                        |  |
|----------------------|-----------------------|--|-----------------------|-------------------|---------------------|----------------------|-------------|--------|---------------|------------|----------------|------------------------|--|
| LOADING<br>TCLL      | (psf)<br>20.0         | SPACING-<br>Plate Grip DOL                       | 2-0-0<br>1.15         | CSI.<br>TC        | 0.14                | DEFL.<br>Vert(LL)    | in<br>n/a   | (loc)  | l/defl<br>n/a | L/d<br>999 | PLATES<br>MT20 | <b>GRIP</b><br>244/190 |  |
| TCDL<br>BCLL<br>BCDL | 10.0<br>0.0 *<br>10.0 | Lumber DOL<br>Rep Stress Incr<br>Code IRC2018/TF | 1.15<br>YES<br>PI2014 | BC<br>WB<br>Matri | 0.04<br>0.03<br>x-P | Vert(CT)<br>Horz(CT) | n/a<br>0.00 | -<br>3 | n/a<br>n/a    | 999<br>n/a | Weight: 16 lb  | FT = 20%               |  |
| LUMBER-              |                       |  |                       |                   |                     | BRACING-             |             |        |               |            |                |                        |  |

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 2x4 SP No.3 OTHERS

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 4-10-5 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 1=89/4-9-11, 3=89/4-9-11, 4=141/4-9-11 (lb/size) Max Horz 1=-66(LC 8) Max Uplift 1=-53(LC 12), 3=-62(LC 13), 4=-28(LC 12) Max Grav 1=89(LC 1), 3=91(LC 20), 4=141(LC 1)

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

## NOTES-

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

2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right

- exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 1, 62 lb uplift at joint 3 and 28 lb uplift at joint 4.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

![](_page_65_Picture_17.jpeg)

🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTPIT Quality Criteria**, **DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

![](_page_65_Picture_19.jpeg)

![](_page_66_Figure_0.jpeg)

| LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0 | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014 | CSI.<br>TC 0.10<br>BC 0.10<br>WB 0.09<br>Matrix-S | DEFL. in<br>Vert(LL) n/a<br>Vert(CT) n/a<br>Horz(CT) 0.00 | (loc)<br>-<br>-<br>5 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES         GRIP           MT20         244/190           Weight: 33 lb         FT = 20% |
|--|---|---|---|----------------------|-----------------------------|--------------------------|---|
| LUMBER-  |   |   | BRACING-  |                      |                             |                          |   |

TOP CHORD

BOT CHORD

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD OTHERS 2x4 SP No.3

REACTIONS. All bearings 9-0-5.

(lb) - Max Horz 1=136(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 7=-189(LC 12), 6=-187(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=269(LC 19), 6=267(LC 20)

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

2-7=-230/296, 4-6=-230/296 WEBS

#### NOTES-

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

2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 4-6-3, Exterior(2R) 4-6-3 to 7-6-3, Interior(1) 7-6-3 to 8-7-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Gable requires continuous bottom chord bearing.

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 7=189.6=187.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

![](_page_66_Picture_18.jpeg)

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only design parameters and READ NOTES ON TIPS ON TIPS AND INCLODED MITER REPRETENCE PAGE MIT-1473 TeV. 100/32010 SECORE 052. Design valid for use only with MITER (be connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general quidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-98 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Qua** Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

![](_page_66_Picture_20.jpeg)

![](_page_67_Figure_0.jpeg)

REACTIONS. (Ib/size) 1=112/5-10-5, 3=112/5-10-5, 4=179/5-10-5 Max Horz 1=-84(LC 8) Max Uplift 1=-67(LC 12), 3=-78(LC 13), 4=-35(LC 12) Max Grav 1=112(LC 1), 3=116(LC 20), 4=179(LC 1)

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

#### NOTES-

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

2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right

exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Gable requires continuous bottom chord bearing.

3) Gable requires continuous bottom chord bearing.

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

![](_page_67_Picture_13.jpeg)

818 Soundside Road Edenton, NC 27932

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designe. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

![](_page_68_Figure_0.jpeg)

|                         | 0-0-5                                       | 1-4-8               | 1             | 1-4-13                 | •                     |
|-------------------------|---|---------------------|---------------|------------------------|-----------------------|
| LOADING (psf)           | SPACING- 2-0-0                              | CSI.                | DEFL. in      | (loc) I/defl L/d       | PLATES GRIP           |
| TCDL 10.0               | Lumber DOL 1.15                             | BC 0.01             | Vert(CT) n/a  | - n/a 999<br>- n/a 999 | INT20 244/190         |
| BCLL 0.0 *<br>BCDL 10.0 | Rep Stress Incr YES<br>Code IRC2018/TPI2014 | WB 0.02<br>Matrix-P | Horz(CT) 0.00 | 3 n/a n/a              | Weight: 8 lb FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

```
LUMBER-
```

TOP CHORD 2x4 SP No.2 BOT CHORD

2x4 SP No.2

2x4 SP No.3 WEBS

REACTIONS. 1=43/2-9-0, 3=43/2-9-0, 4=68/2-9-0 (lb/size) Max Horz 1=-32(LC 8) Max Uplift 1=-26(LC 12), 3=-30(LC 13), 4=-13(LC 12) Max Grav 1=43(LC 1), 3=44(LC 20), 4=68(LC 1)

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

## NOTES-

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

2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed;

MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Structural wood sheathing directly applied or 2-9-11 oc purlins.

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

🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTPIT Quality Criteria**, **DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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![](_page_69_Figure_0.jpeg)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent ocllapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

![](_page_69_Picture_2.jpeg)

![](_page_70_Figure_0.jpeg)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

![](_page_70_Picture_2.jpeg)

![](_page_71_Figure_0.jpeg)

 Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-4 to 3-7-10, Interior(1) 3-7-10 to 5-7-10, Exterior(2R) 5-7-10 to 8-7-10, Interior(1) 8-7-10 to 10-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 266 lb uplift at joint 7 and 263 lb uplift at joint 6.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

![](_page_71_Picture_7.jpeg)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

![](_page_71_Picture_9.jpeg)


Max Grav 1=149(LC 1), 3=155(LC 20), 4=285(LC 1)

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

# NOTES-

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

2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 4-0-15, Exterior(2R) 4-0-15 to 7-0-15, Interior(1) 7-0-15 to 7-8-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 1, 95 lb uplift at joint 3 and 87 lb uplift at joint 4.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designe. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





REACTIONS. (Ib/size) 1=93/4-11-14, 3=93/4-11-14, 4=148/4-11-14 Max Horz 1=-69(LC 8) Max Uplift 1=-56(LC 12), 3=-65(LC 13), 4=-29(LC 12) Max Grav 1=93(LC 1), 3=96(LC 20), 4=148(LC 1)

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

### NOTES-

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

2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right

exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 1, 65 lb uplift at joint 3 and 29 lb uplift at joint 4.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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| LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014 | CSI.<br>TC 0.10<br>BC 0.10<br>WB 0.09<br>Matrix-S | DEFL.         in         (loc)         I/defl         L/d         PLATE           Vert(LL)         n/a         -         n/a         999         MT20           Vert(CT)         n/a         -         n/a         999         Horz(CT)         0.00         5         n/a         n/a           Weight:         Weight:         - | S GRIP<br>244/190<br>33 lb FT = 20% |
|--|---|---|--|-------------------------------------|
|  |   |   | BRACING.   |                                     |

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD OTHERS 2x4 SP No.3

REACTIONS.

All bearings 9-2-9.

(lb) - Max Horz 1=-139(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 7=-195(LC 12), 6=-193(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=275(LC 19), 6=272(LC 20)

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

2-7=-234/300, 4-6=-234/300 WEBS

#### NOTES-

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

2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 4-7-4, Exterior(2R) 4-7-4 to 7-7-4, Interior(1) 7-7-4 to 8-9-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 7=195. 6=193.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only design parameters and READ NOTES ON TIPS ON TIPS ON TIPS REPREVED PAGE MIT-14/3 reference of the second secon fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Qua** Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3 TOP CHORD S BOT CHORD R

Structural wood sheathing directly applied or 6-0-0 oc purlins Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=116/6-0-9, 3=116/6-0-9, 4=185/6-0-9 Max Horz 1=-87(LC 8) Max Uplift 1=-70(LC 12), 3=-81(LC 13), 4=-36(LC 12) Max Grav 1=116(LC 1), 3=120(LC 20), 4=185(LC 1)

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

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.



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|         |         | 0-0-5                | 1-5-10   | 1-5-15           | 5         | 1            |          |
|---------|---------|----------------------|----------|------------------|-----------|--------------|----------|
| LOADING | G (psf) | SPACING- 2-0-0       | CSI.     | DEFL. in (loc) l | /defl L/d | PLATES       | GRIP     |
| TCLL    | 20.0    | Plate Grip DOL 1.15  | TC 0.04  | Vert(LL) n/a -   | n/a 999   | MT20         | 244/190  |
| TCDL    | 10.0    | Lumber DOL 1.15      | BC 0.01  | Vert(CT) n/a -   | n/a 999   |              |          |
| BCLL    | 0.0 *   | Rep Stress Incr YES  | WB 0.02  | Horz(CT) 0.00 3  | n/a n/a   |              |          |
| BCDL    | 10.0    | Code IRC2018/TPI2014 | Matrix-P |                  |           | Weight: 9 lb | FT = 20% |

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LUMBER-
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TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-11-14 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=47/2-11-4, 3=47/2-11-4, 4=75/2-11-4 Max Horz 1=-35(LC 8) Max Uplift 1=-28(LC 12), 3=-33(LC 13), 4=-15(LC 12) Max Grav 1=47(LC 1), 3=49(LC 20), 4=75(LC 1)

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

## NOTES-

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

2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right

exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

3) Gable requires continuous bottom chord bearing.

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSIVTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



